(12) 特許協力条約に基づいて公開された国際出願

(19) 世界知的所有権機関
国際事務局

(43) 国際公開日
2014 年 6 月 5 日(05.06.2014)

WIPO | PCT

(10) 国際公開番号
WO 2014/084290 A1

(51) 国際特許分類:
G01N 33/68 (2006.01)

(21) 国際出願番号: PCT/JP2013/081981

(22) 国際出願日: 2013 年 11 月 27 日(27.11.2013)

(25) 国際出願の言語: 日本語

(26) 国際公開の言語: 日本語

(30) 優先権データ:
特願 2012-259167 2012 年 11 月 27 日(27.11.2012) JP

(71) 出願人: 味の素株式会社(AJINOMOTO CO., INC.) [JP/JP]; 〒1048315 東京都中央区京橋一丁目１５番１号 Tokyo (JP).

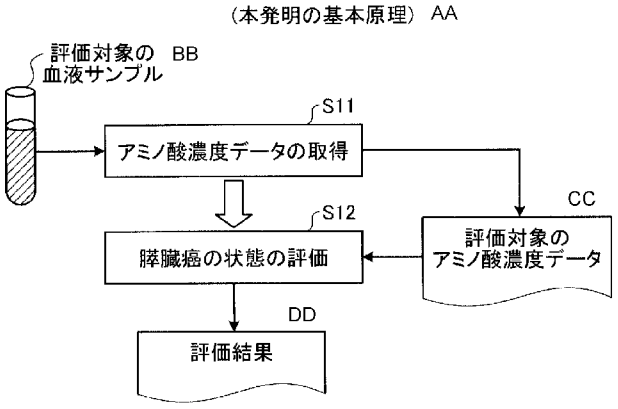
(72) 発明者: 小野 信和(ONO, Nobukazu); 〒2108681 神奈川県川崎市川崎区鈴木町１－１ 味の素株式会社内 Kanagawa (JP). 新原 温子(SHINHARA, Atsuko); 〒2108681 神奈川県川崎市川崎区鈴木町１－１ 味の素株式会社内 Kanagawa (JP). 村松 孝彦(MURAMATSU, Takahiko); 〒2108681 神奈川県川崎市川崎区鈴木町１－１ 味の素株式会社内 Kanagawa (JP). 菊池 信矢(KIKUCHI, Shinya); 〒2108681 神奈川県川崎市川崎区鈴木町１－１ 味の素株式会社内 Kanagawa (JP). 山本 浩史(YAMAMOTO, Hiroshi); 〒2108681 神奈川県川崎市川崎区鈴木町１－１ 味の素株式会社内 Kanagawa (JP). 白石 光一(SHIRAISHI, Koichi); 〒2591193 神奈川県伊勢原市下糟屋１４３ 東海大学内 Kanagawa (JP). 片山 和宏(KATAYAMA, Kazuhiro); 〒5378511 大阪府大阪市東成区中道１－３－３ 大阪府立成人病センター内 Osaka (JP). 福武 伸康(FUKUTAKE, Nobuyasu); 〒5378511 大阪府大阪市東成区中道１－３－３ 大阪府立成人病センター内 Osaka (JP). 東山 聖彦(HIGASHIYAMA, Masahiko); 〒5378511 大阪府大阪市東成区中道１－３－３ 大阪府立成人病センター内 Osaka (JP). 大川 伸一(OHKAWA, Shinichi); 〒2410815 神奈川県横浜市旭区中尾１－１－２ 神奈川県立がんセンター内 Kanagawa (JP). 上野 誠(UENO, Makoto); 〒2410815 神奈川県横浜市旭区中尾１－１－２ 神奈川県立がんセンター内 Kanagawa (JP). 宮城 洋平(MIYAGI, Yohei); 〒2410815 神奈川県横浜市旭区中尾１－１－２ 神奈川県立がんセンター内 Kanagawa (JP). 岡本 直幸(OKAMOTO, Naoyuki); 〒2410815 神奈川県横浜市旭区中尾１－１－２ 神奈川県立がんセンター内 Kanagawa (JP).

(74) 代理人: 酒井 宏明, 外(SAKAI, Hiroaki et al.); 〒1006020 東京都千代田区霞が関三丁目２番５号 霞が関ビルディング 酒井国際特許事務所 Tokyo (JP).

[続葉有]

(54) **Title**: METHOD FOR EVALUATING PANCREATIC CANCER, PANCREATIC CANCER EVALUATION DEVICE, PANCREATIC CANCER EVALUATION METHOD, PANCREATIC CANCER EVALUATION PROGRAM, PANCREATIC CANCER EVALUATION SYSTEM AND INFORMATION COMMUNICATION TERMINAL UNIT

(54) 発明の名称 : 膵臓癌の評価方法、膵臓癌評価装置、膵臓癌評価方法、膵臓癌評価プログラム、膵臓癌評価システムおよび情報通信端末装置



AA Fundamental principle of the invention
BB Blood sample of evaluation subject
CC Amino acid concentration data of evaluation subject
DD Evaluation result
S11 Acquiring amino acid concentration data
S12 Evaluating pancreatic cancer conditions

(57) **Abstract**: The present invention addresses the problem of providing a method for evaluating pancreatic cancer, etc., whereby highly reliable information usable as a reference in understanding pancreatic cancer conditions can be provided. In the present embodiment, the pancreatic cancer conditions of an evaluation subject are evaluated by: (i) acquiring amino acid concentration data (involving the amino acid concentration values of at least 2 kinds of amino acids among 19 kinds of amino acids) relating to amino acid concentration values of blood that is collected from the evaluation subject; and (ii) calculating a value using the acquired amino acid concentration data of the evaluation subject and a predetermined formula that involves variables for which the amino acid concentration values are to be substituted (involving at least two variables for which the amino acid concentration values of at least 2 kinds of amino acids, among 19 kinds of amino acids, are to be substituted).

(57) 要約:

[続葉有]

WO 2014/084290 A1

(81) 指定国 (表示のない限り、全ての種類の国内保護が可能): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) 指定国 (表示のない限り、全ての種類の広域保護が可能): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), ユーラシア (AM, AZ, BY, KG, KZ, RU, TJ, TM), ヨーロッパ (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

添付公開書類:

— 国際調査報告（条約第 21 条(3)）

膵臓癌の状態を知る上で参考となり得る信頼性の高い情報を提供することができる膵臓癌の評価方法などを提供することを課題とする。本実施形態では、（ｉ）評価対象から採取した血液中のアミノ酸の濃度値に関するアミノ酸濃度データ（１９種のアミノ酸のうちの少なくとも２つのアミノ酸の濃度値が含まれているもの）を取得し、（ｉｉ）取得した評価対象のアミノ酸濃度データ、及び、アミノ酸の濃度値が代入される変数を含む予め設定された式（１９種のアミノ酸のうちの少なくとも２つのアミノ酸の濃度値が代入される少なくとも２つの変数が含まれているもの）を用いて、式の値を算出することで、評価対象における膵臓癌の状態を評価する。

明　細　書

発明の名称 ：

膵臓癌の評価方法、膵臓癌評価装置、膵臓癌評価方法、膵臓癌評価プログラム、膵臓癌評価システムおよび情報通信端末装置

技術分野

[0001] 本発明は、膵臓癌の評価方法、膵臓癌評価装置、膵臓癌評価方法、膵臓癌評価プログラム、膵臓癌評価システムおよび情報通信端末装置に関するものである。

背景技術

[0002] 日本では、膵臓癌による２００９年の死亡者数は男１４０９４人・女１２６９７人で、男性では癌による死亡の第五位、女性では癌による死亡の第四位である。膵臓癌の生涯罹患率は２％である。

[0003] 膵臓癌は、癌の部位によっては症状が乏しく、進行してから発見されることが多い。膵臓癌は、画像診断を用いて２ｃｍ以下で発見されても膵臓外の隣接組織への転移がある場合が多く、予後が極めて不良である。膵臓癌については、手術可能なより早期の発見が望まれている。

[0004] 膵臓癌の診断には腹部超音波エコー、ＣＴ、ＭＲＩが用いられるが、いずれも膵臓癌の発見率は高くない。

[0005] 血清癌マーカーとしてはＣＡ１９－９、ＣＥＡ、ＳＰａｎ－１、ＤＵＰＡＮ－２等がある。これらのマーカーは、進行癌には比較的高い感度と特異度を有するが、初期癌における陽性率は低く、また膵臓癌以外の癌でも陽性になる場合がある。

[0006] ＥＲＣＰ、ＥＵＳなどの内視鏡を用いた画像診断は、膵臓癌の発見率が高く有効であることが知られているが、患者の身体的負担が高く集団検診には不向きで、検査による出血などのリスクも起こりえる。さらに、生検による組織診断は、確定診断になるが侵襲度の高い検査であり、生検による検査をスクリーニングの段階で施行するのは実際的でない。

[0007] そのため、患者に対する身体的負担および費用対効果の面から、膵臓癌発症の可能性の高い被験者を絞り込んで、その者を治療の対象とすることが望ましい。具体的には、侵襲の少ない方法で被験者を選択し、選択した被験者に対し画像診断を実施することで被験者を絞り込み、膵臓癌の確定診断が得られた被験者を治療の対象とすることが望ましい。

[0008] ところで、血中アミノ酸の濃度が、癌発症により変化することは知られている。例えば、Ｃｙｎｏｂｅｒによれば（非特許文献１）、グルタミンは主に酸化エネルギー源として、アルギニンは窒素酸化物やポリアミンの前駆体として、メチオニンは癌細胞がメチオニン取り込み能の活性化により、それぞれ癌細胞での消費量が増加するという報告がある。また、Ｓｃｈｒａｄｅｒら（非特許文献２）やＶｉｓｓｅｒｓら（非特許文献３）によれば、膵臓癌患者の血漿中アミノ酸組成は健常者と異なっていることが報告されている。

[0009] また、特許文献１では、「被検者から採取した検体中の生体成分のうち、特定の有限個の解析対象成分を選別して定量し、多変量解析を行なうことによりメタボローム解析を行い、その解析結果を、予め取得した健常者グループ及び疾患患者グループの解析結果と比較することで、特定の疾患の検査、例えば早期診断、治療効果の判定、予後診断等を容易に行なうことが可能となる。」ことが開示されている。さらに、特許文献１に記載の実施例では、健常者と膵臓癌のＧＣＭＳで測定した血清メタボロームのデータに対し、「ＳＩＭＣＡ－Ｐ＋（Ｕｍｅｔｒｉｃｓ社）を使用して６１成分を用いた多変量解析を行った。主成分分析（ＰＣＡ）のスコアプロットを用い、差異を調べた。合計６１の解析対象生体分子のうち、ＰＣ１（ｔ［１］）、ＰＣ２（ｔ［２］）、ＰＣ３（ｔ［３］）は、各々６１成分中の２０（３２．３％）、１５（２４．７％）及び７（１２．０％）による（Ａ＝３、Ｒ２Ｘ＝０．６９）。その結果、すい臓がん患者及び健常者における解析対象生体分子の分布が異なることが確認された。」と述べている。

[0010] また、先行特許として、アミノ酸濃度と生体状態とを関連付ける方法に関

する特許文献２、特許文献３および特許文献４が公開されている。また、先行特許として、アミノ酸濃度を用いて肺癌の状態を評価する方法に関する特許文献５、アミノ酸濃度を用いて乳癌の状態を評価する方法に関する特許文献６、アミノ酸濃度を用いて大腸癌の状態を評価する方法に関する特許文献７、アミノ酸濃度を用いて癌の状態を評価する方法に関する特許文献８、アミノ酸濃度を用いて胃癌の状態を評価する方法に関する特許文献９、アミノ酸濃度を用いて癌の種類を評価する方法に関する特許文献１０、アミノ酸濃度を用いて女性生殖器癌の状態を評価する方法に関する特許文献１１、および、アミノ酸濃度を用いて前立腺癌および前立腺肥大のうち少なくとも１つを含む前立腺疾患の状態を評価する方法に関する特許文献１２が公開されている。

先行技術文献

特許文献

[0011] 特許文献1：特開２０１１－２４７８６９号公報

特許文献2：国際公開第２００４／０５２１９１号

特許文献3：国際公開第２００６／０９８１９２号

特許文献4：国際公開第２００９／０５４３５１号

特許文献5：国際公開第２００８／０１６１１１号

特許文献6：国際公開第２００８／０７５６６２号

特許文献7：国際公開第２００８／０７５６６３号

特許文献8：国際公開第２００８／０７５６６４号

特許文献9：国際公開第２００９／０９９００５号

特許文献10：国際公開第２００９／１１０５１７号

特許文献11：国際公開第２００９／１５４２９６号

特許文献12：国際公開第２００９／１５４２９７号

非特許文献

[0012] 非特許文献1：Ｃｙｎｏｂｅｒ，　Ｌ．　ｅｄ．，　Ｍｅｔａｂｏｌｉｃ　ａｎｄ　ｔｈｅｒａｐｅｕｔｉｃ　ａｓｐｅｃｔｓ　ｏｆ　ａｍｉｎｏ　ａｃ

ｉｄｓ ｉｎ ｃｌｉｎｉｃａｌ ｎｕｔｒｉｔｉｏｎ．２ｎｄ ｅｄ．，ＣＲＣ Ｐｒｅｓｓ

非特許文献2：Ｓｃｈｒａｄｅｒ Ｈ，Ｍｅｎｇｅ ＢＡ，Ｂｅｌｙａｅｖ Ｏ，Ｕｈｌ Ｗ，Ｓｃｈｍｉｄｔ ＷＥ，Ｍｅｉｅｒ ＪＪ．，Ａｍｉｎｏ ａｃｉｄ ｍａｌｎｕｔｒｉｔｉｏｎ ｉｎ ｐａｔｉｅｎｔｓ ｗｉｔｈ ｃｈｒｏｎｉｃ ｐａｎｃｒｅａｔｉｔｉｓ ａｎｄ ｐａｎｃｒｅａｔｉｃ ｃａｒｃｉｎｏｍａ．Ｐａｎｃｒｅａｓ．２００９ Ｍａｙ；３８（４）：４１６－２１．

非特許文献3：Ｖｉｓｓｅｒｓ ＹＬ，Ｄｅｊｏｎｇ ＣＨ，Ｌｕｉｋｉｎｇ ＹＣ，Ｆｅａｒｏｎ ＫＣ，ｖｏｎ Ｍｅｙｅｎｆｅｌｄｔ ＭＦ，Ｄｅｕｔｚ ＮＥ．Ｐｌａｓｍａ ａｒｇｉｎｉｎｅ ｃｏｎｃｅｎｔｒａｔｉｏｎｓ ａｒｅ ｒｅｄｕｃｅｄ ｉｎ ｃａｎｃｅｒ ｐａｔｉｅｎｔｓ：ｅｖｉｄｅｎｃｅ ｆｏｒ ａｒｇｉｎｉｎｅ ｄｅｆｉｃｉｅｎｃｙ？Ａｍ Ｊ Ｃｌｉｎ Ｎｕｔｒ．２００５ Ｍａｙ；８１（５）：１１４２－６．

発明の概要

発明が解決しようとする課題

[0013] しかしながら、非特許文献２および非特許文献３は、膵臓癌の状態を評価するのに最適な、生体分子の組み合わせ又は多変量解析を用いた指標式を探索しているわけではない。

[0014] また、特許文献１に記載の実施例は、多変量解析の１つである主成分分析を用いて多数の解析対象生体分子の成分全体の傾向を示すのみにとどまっており、膵臓癌の状態を評価するのに最適な、生体分子の組み合わせ又は多変量解析を用いた指標式を探索しているわけではない。

[0015] また、特許文献２から１２に開示されている指標式を膵臓癌の状態を評価する際に用いても、評価される疾患が異なるので、十分な信頼性を有する評価結果を得ることはできない。特に、特許文献１０には、癌の種類を評価する方法が記載されているが、膵臓癌に罹患している可能性が高い対象と膵臓

癌以外の癌に罹患している可能性が高い対象との分類に特に適した血液マーカーや指標式は記載されていない。また、特許文献１０には、膵臓癌に罹患している可能性が高い対象と膵臓癌に罹患している可能性が低い対象とを精度良く分類し、かつ、膵臓癌に罹患している可能性が高い対象と膵臓癌以外の癌に罹患している可能性が高い対象の分類にも適した指標式は記載されていない。

[0016] また、膵臓癌に罹患している可能性が高い対象と、大腸癌、肺癌、乳癌、前立腺癌、胃癌、子宮癌（子宮頸癌、子宮体癌）、卵巣癌などの膵臓癌以外の癌に罹患している可能性が高い対象を分類するための血液マーカーは報告されていない。

[0017] つまり、少なくとも２つのアミノ酸の濃度値が代入される少なくとも２つの変数を含む式を利用して、膵臓癌の状態を評価する方法は、開発されておらず、また実用化もされていない、という問題点があった。

[0018] 本発明は、上記問題点に鑑みてなされたもので、膵臓癌の状態を知る上で参考となり得る信頼性の高い情報を提供することができる膵臓癌の評価方法、膵臓癌評価装置、膵臓癌評価方法、膵臓癌評価プログラム、膵臓癌評価システムおよび情報通信端末装置を提供することを目的とする。

課題を解決するための手段

[0019] 上述した課題を解決し、目的を達成するために、本発明にかかる膵臓癌の評価方法は、評価対象から採取した血液中のアミノ酸の濃度値に関するアミノ酸濃度データを取得する取得ステップと、前記取得ステップで取得した前記評価対象の前記アミノ酸濃度データ、及び、アミノ酸の濃度値が代入される変数を含む予め設定された、膵臓癌の状態を評価するための式（以下では、評価式と記す場合がある。）を用いて、前記式の値（以下では、評価式の値又は評価値と記す場合がある。）を算出することで、前記評価対象における膵臓癌の状態を評価する評価ステップと、を含み、前記アミノ酸濃度データには、Ａｓｎ，Ｈｉｓ，Ｔｈｒ，Ａｌａ，Ｃｉｔ，Ａｒｇ，Ｔｙｒ，Ｖａｌ，Ｍｅｔ，Ｌｙｓ，Ｔｒｐ，Ｇｌｙ，Ｐｒｏ，Ｏｒｎ，Ｉｌｅ，Ｌｅｕ，

Ｐｈｅ，Ｓｅｒ，ＧｌｎのうちのＭＭ少なくとも２つのアミノ酸の濃度値が含まれており、前記式には、Ａｓｎ，Ｈｉｓ，Ｔｈｒ，Ａｌａ，Ｃｉｔ，Ａｒｇ，Ｔｙｒ，Ｖａｌ，Ｍｅｔ，Ｌｙｓ，Ｔｒｐ，Ｇｌｙ，Ｐｒｏ，Ｏｒｎ，Ｉｌｅ，Ｌｅｕ，Ｐｈｅ，Ｓｅｒ，ＧｌｎのうちのＭＭ少なくとも２つのアミノ酸の濃度値が代入される少なくとも２つの変数が含まれていること、を特徴とする。

[0020] ここで、本明細書では各種アミノ酸を主に略称で表記するが、それらの正式名称は以下の通りである。

（略称）	（正式名称）
Ａｌａ	Ａｌａｎｉｎｅ
Ａｒｇ	Ａｒｇｉｎｉｎｅ
Ａｓｎ	Ａｓｐａｒａｇｉｎｅ
Ｃｉｔ	Ｃｉｔｒｕｌｌｉｎｅ
Ｇｌｎ	Ｇｌｕｔａｍｉｎｅ
Ｇｌｙ	Ｇｌｙｃｉｎｅ
Ｈｉｓ	Ｈｉｓｔｉｄｉｎｅ
Ｉｌｅ	Ｉｓｏｌｅｕｃｉｎｅ
Ｌｅｕ	Ｌｅｕｃｉｎｅ
Ｌｙｓ	Ｌｙｓｉｎｅ
Ｍｅｔ	Ｍｅｔｈｉｏｎｉｎｅ
Ｏｒｎ	Ｏｒｎｉｔｈｉｎｅ
Ｐｈｅ	Ｐｈｅｎｙｌａｌａｎｉｎｅ
Ｐｒｏ	Ｐｒｏｌｉｎｅ
Ｓｅｒ	Ｓｅｒｉｎｅ
Ｔｈｒ	Ｔｈｒｅｏｎｉｎｅ
Ｔｒｐ	Ｔｒｙｐｔｏｐｈａｎ
Ｔｙｒ	Ｔｙｒｏｓｉｎｅ
Ｖａｌ	Ｖａｌｉｎｅ

[0021] また、本発明にかかる膵臓癌の評価方法は、前記の膵臓癌の評価方法において、前記膵臓癌の状態とは、膵臓癌に罹患している可能性の程度のことであり、前記評価対象における膵臓癌の状態を評価するとは、前記評価対象が膵臓癌に罹患している可能性の程度を評価することである、を特徴とする。

[0022] ここで、本明細書において、膵臓癌の状態の例としては、膵臓癌に罹患している可能性の程度の他に、例えば、膵臓癌の進行度などが挙げられる。

[0023] また、本発明にかかる膵臓癌の評価方法は、前記の膵臓癌の評価方法において、膵臓癌に罹患している可能性の程度を少なくとも考慮して定義された複数の区分と、１つ又は複数の閾値が予め設定されており、前記評価対象が膵臓癌に罹患している可能性の程度を評価するとは、前記式の値及び前記閾値を用いて、前記評価対象を複数の前記区分のうちのどれか１つに分類することである、を特徴とする。

[0024] また、本発明にかかる膵臓癌の評価方法は、前記の膵臓癌の評価方法において、複数の前記区分には、膵臓癌に罹患している可能性の程度及び膵臓癌以外の癌に罹患している可能性の程度を少なくとも考慮して定義された区分が少なくとも１つ含まれていること、を特徴とする。

[0025] また、本発明にかかる膵臓癌の評価方法は、前記の膵臓癌の評価方法において、複数の前記区分には、膵臓癌に罹患している可能性が高い対象（例えば、膵臓癌に罹患していると見做す対象）を属させるための区分（以下、区分Ｘと記す場合がある。）及び膵臓癌に罹患している可能性が低い対象（例えば、膵臓癌に罹患していないと見做す対象）を属させるための区分（以下、区分Ｙと記す場合がある。）が含まれていること、を特徴とする。

[0026] また、本発明にかかる膵臓癌の評価方法は、前記の膵臓癌の評価方法において、膵臓癌に罹患している可能性が低い対象を属させるための前記区分は、健常である可能性が高い対象（例えば、健常であると見做す対象）を属させるための健常区分、膵臓癌以外の癌に罹患している可能性が高い対象（例えば、膵臓癌以外の癌に罹患していると見做す対象）を属させるための他癌区分、又は、健常である可能性が高い対象と膵臓癌以外の癌に罹患している

可能性が高い対象を属させるための健常／他癌区分であること、を特徴とする。

[0027] また、本発明にかかる膵臓癌の評価方法は、前記の膵臓癌の評価方法において、膵臓癌に罹患している可能性が低い対象を属させるための前記区分には、健常である可能性が高い対象を属させるための健常区分、及び、膵臓癌以外の癌に罹患している可能性が高い対象を属させるための他癌区分が含まれていること、を特徴とする。

[0028] また、本発明にかかる膵臓癌の評価方法は、前記の膵臓癌の評価方法において、前記式は、ロジスティック回帰式、分数式、線形判別式、重回帰式、サポートベクターマシンで作成された式、マハラノビス距離法で作成された式、正準判別分析で作成された式、決定木で作成された式のいずれか１つであること、を特徴とする。

[0029] なお、本発明にかかる膵臓癌の評価方法は、前記の膵臓癌の評価方法において、前記評価対象における膵臓癌の状態を評価するとは、前記式の値が前記評価対象における膵臓癌の状態を反映したものであると決定することである、を特徴としてもよい。

[0030] また、本発明にかかる膵臓癌の評価方法は、前記の膵臓癌の評価方法において、前記評価ステップでは、前記式の値を所定の手法で変換し、変換後の値が前記評価対象における膵臓癌の状態を反映したものであると決定すること、を特徴としてもよい。

[0031] また、本発明にかかる膵臓癌の評価方法は、前記の膵臓癌の評価方法において、前記評価ステップでは、モニタ等の表示装置又は紙等の物理媒体に視認可能に示される、膵臓癌の状態を評価するための所定の物差し上における、前記式の値又は前記変換後の値に対応する所定の目印の位置に関する位置情報を、前記式の値又は前記変換後の値を用いて生成し、生成した前記位置情報が前記評価対象における膵臓癌の状態を反映したものであると決定すること、を特徴としてもよい。

[0032] また、本発明にかかる膵臓癌の評価方法は、前記の膵臓癌の評価方法にお

いて、前記評価ステップでは、前記式の値を所定の手法で変換し、変換後の値を用いて前記評価対象を複数の前記区分のうちのどれか１つに分類すること、を特徴としてもよい。

[0033] また、本発明にかかる膵臓癌の評価方法は、前記の膵臓癌の評価方法において、複数の前記区分は前記区分Ｘ及び前記区分Ｙであり、前記評価ステップでは、前記評価対象を、前記区分Ｘ及び前記区分Ｙのどちらかに分類すること、を特徴としてもよい。なお、この分類を行う場合、区分Ｘを例えば膵臓癌区分と記してもよく、また、区分Ｙを例えば非膵臓癌区分と記してもよい。

[0034] また、本発明にかかる膵臓癌の評価方法は、前記の膵臓癌の評価方法において、前記式を第一の式とし、Ａｓｎ，Ｈｉｓ，Ｔｈｒ，Ａｌａ，Ｃｉｔ，Ａｒｇ，Ｔｙｒ，Ｖａｌ，Ｍｅｔ，Ｌｙｓ，Ｔｒｐ，Ｇｌｙ，Ｐｒｏ，Ｏｒｎ，Ｉｌｅ，Ｌｅｕ，Ｐｈｅ，Ｓｅｒ，Ｇｌｎのうちの少なくとも２つのアミノ酸の濃度値が代入される少なくとも２つの変数を含む、前記第一の式とは異なる第二の式がさらに予め設定されており、前記評価ステップでは、前記第一の式の値と前記第二の式の値を算出し、算出した前記第一の式の値と前記第二の式の値を用いて、前記評価対象を、前記区分Ｘ及び前記区分Ｙのどちらかに分類すること、を特徴としてもよい。

[0035] また、本発明にかかる膵臓癌の評価方法は、前記の膵臓癌の評価方法において、前記区分Ｙには、健常である可能性が高い対象を属させるための健常区分、及び、膵臓癌以外の癌に罹患している可能性が高い対象を属させるための他癌区分が含まれており、前記第一の式は、対象を前記区分Ｘ及び前記健常区分のどちらかに分類するためのものであり、前記第二の式は、対象を前記区分Ｘ及び前記他癌区分のどちらかに分類するためのものであり、前記評価ステップでは、先ず、前記第一の式の値を算出し、算出した前記第一の式の値を用いて前記評価対象を前記区分Ｘ及び前記健常区分のどちらかに分類し、次に、この分類結果が前記区分Ｘであった場合には、前記第二の式の値を算出し、算出した前記第二の式の値を用いて、前記第一の式の値を用い

て前記区分Ｘに分類された前記評価対象を、さらに前記区分Ｘ及び前記他癌区分のどちらかに分類し、そして、前記健常区分に分類された前記評価対象と前記他癌区分に分類された前記評価対象を最終的に前記区分Ｙに分類すること、を特徴としてもよい。

[0036] また、本発明にかかる膵臓癌の評価方法は、前記の膵臓癌の評価方法において、前記評価ステップでは、前記評価対象を、前記区分Ｘ及び前記健常区分のどちらかに分類すること、を特徴としてもよい。なお、この分類を行う場合、区分Ｘを例えば膵臓癌区分と記してもよい。

[0037] また、本発明にかかる膵臓癌の評価方法は、前記の膵臓癌の評価方法において、前記評価ステップでは、前記評価対象を、前記区分Ｘ及び前記他癌区分のどちらかに分類すること、を特徴としてもよい。なお、この分類を行う場合、区分Ｘを例えば膵臓癌区分と記してもよい。

[0038] また、本発明にかかる膵臓癌の評価方法は、前記の膵臓癌の評価方法において、前記評価ステップでは、前記評価対象を、前記区分Ｘ及び前記健常／他癌区分のどちらかに分類すること、を特徴としてもよい。なお、この分類を行う場合、区分Ｘを例えば膵臓癌区分と記してもよい。

[0039] また、本発明にかかる膵臓癌の評価方法は、前記の膵臓癌の評価方法において、前記評価ステップでは、前記評価対象を、前記区分Ｘ、前記健常区分及び前記他癌区分のうちのどれか１つに分類すること、を特徴としてもよい。なお、この分類を行う場合、区分Ｘを例えば膵臓癌区分と記してもよい。

[0040] また、本発明にかかる膵臓癌の評価方法は、前記の膵臓癌の評価方法において、前記式を第一の式とし、Ａｓｎ，Ｈｉｓ，Ｔｈｒ，Ａｌａ，Ｃｉｔ，Ａｒｇ，Ｔｙｒ，Ｖａｌ，Ｍｅｔ，Ｌｙｓ，Ｔｒｐ，Ｇｌｙ，Ｐｒｏ，Ｏｒｎ，Ｉｌｅ，Ｌｅｕ，Ｐｈｅ，Ｓｅｒ，Ｇｌｎのうちの少なくとも２つのアミノ酸の濃度値が代入される少なくとも２つの変数を含む、前記第一の式とは異なる第二の式がさらに予め設定されており、前記評価ステップでは、前記第一の式の値と前記第二の式の値を算出し、算出した前記第一の式の値と前記第二の式の値を用いて、前記評価対象を、前記区分Ｘ、前記健常区分及

び前記他癌区分のうちのどれか１つに分類すること、を特徴としてもよい。

[0041] また、本発明にかかる膵臓癌の評価方法は、前記の膵臓癌の評価方法において、前記第一の式は、対象を前記区分Ｘ及び前記健常区分のどちらかに分類するためのものであり、前記第二の式は、対象を前記区分Ｘ及び前記他癌区分のどちらかに分類するためのものであり、前記評価ステップでは、先ず、前記第一の式の値を算出し、算出した前記第一の式の値を用いて前記評価対象を前記区分Ｘ及び前記健常区分のどちらかに分類し、次に、この分類結果が前記区分Ｘであった場合には、前記第二の式の値を算出し、算出した前記第二の式の値を用いて、前記第一の式の値を用いて前記区分Ｘに分類された前記評価対象を、さらに前記区分Ｘ及び前記他癌区分のどちらかに分類し、そして、前記第一の式の値を用いて前記区分Ｘに分類され且つ前記第二の式の値を用いて前記他癌区分に分類された前記評価対象を最終的に前記他癌区分に分類すること、を特徴としてもよい。

[0042] また、本発明にかかる膵臓癌評価装置は、制御部と記憶部とを備え、評価対象における膵臓癌の状態を評価する膵臓癌評価装置であって、前記制御部は、アミノ酸の濃度値に関する予め取得された前記評価対象のアミノ酸濃度データ、及び、アミノ酸の濃度値が代入される変数を含む予め前記記憶部に記憶された、膵臓癌の状態を評価するための式を用いて、前記式の値を算出することで、前記評価対象における膵臓癌の状態を評価する評価手段を備え、前記アミノ酸濃度データには、Ａｓｎ，Ｈｉｓ，Ｔｈｒ，Ａｌａ，Ｃｉｔ，Ａｒｇ，Ｔｙｒ，Ｖａｌ，Ｍｅｔ，Ｌｙｓ，Ｔｒｐ，Ｇｌｙ，Ｐｒｏ，Ｏｒｎ，Ｉｌｅ，Ｌｅｕ，Ｐｈｅ，Ｓｅｒ，ＧＩｎのうちの少なくとも２つのアミノ酸の濃度値が含まれており、前記式には、Ａｓｎ，Ｈｉｓ，Ｔｈｒ，Ａｌａ，Ｃｉｔ，Ａｒｇ，Ｔｙｒ，Ｖａｌ，Ｍｅｔ，Ｌｙｓ，Ｔｒｐ，Ｇｌｙ，Ｐｒｏ，Ｏｒｎ，Ｉｌｅ，Ｌｅｕ，Ｐｈｅ，Ｓｅｒ，ＧＩｎのうちの少なくとも２つのアミノ酸の濃度値が代入される少なくとも２つの変数が含まれていること、を特徴とする。

[0043] なお、本発明にかかる膵臓癌評価装置は、前記の膵臓癌評価装置において

、（ｉ）前記制御部は、前記アミノ酸濃度データと前記膵臓癌の状態を表す指標に関する膵臓癌状態指標データとを含む前記記憶部に記憶された膵臓癌状態情報に基づいて、前記記憶部で記憶する前記評価式を作成する評価式作成手段をさらに備え、（ｉｉ）前記評価式作成手段は、前記膵臓癌状態情報から所定の式作成手法に基づいて、前記評価式の候補である候補式を作成する候補式作成手段と、前記候補式作成手段で作成した前記候補式を、所定の検証手法に基づいて検証する候補式検証手段と、所定の変数選択手法に基づいて前記候補式の変数を選択することで、前記候補式を作成する際に用いる前記膵臓癌状態情報に含まれる前記アミノ酸濃度データの組み合わせを選択する変数選択手段と、をさらに備え、前記候補式作成手段、前記候補式検証手段および前記変数選択手段を繰り返し実行して蓄積した前記検証結果に基づいて、複数の前記候補式の中から前記評価式として採用する前記候補式を選出することで、前記評価式を作成すること、を特徴としてもよい。

[0044] また、本発明にかかる膵臓癌評価方法は、制御部と記憶部とを備えた情報処理装置において実行される、評価対象における膵臓癌の状態を評価する膵臓癌評価方法であって、前記制御部において実行される、アミノ酸の濃度値に関する予め取得された前記評価対象のアミノ酸濃度データ、及び、アミノ酸の濃度値が代入される変数を含む予め前記記憶部に記憶された、膵臓癌の状態を評価するための式を用いて、前記式の値を算出することで、前記評価対象における膵臓癌の状態を評価する評価ステップを含み、前記アミノ酸濃度データには、Ａｓｎ，Ｈｉｓ，Ｔｈｒ，Ａｌａ，Ｃｉｔ，Ａｒｇ，Ｔｙｒ，Ｖａｌ，Ｍｅｔ，Ｌｙｓ，Ｔｒｐ，Ｇｌｙ，Ｐｒｏ，Ｏｒｎ，Ｉｌｅ，Ｌｅｕ，Ｐｈｅ，Ｓｅｒ，ＧｌｎのうちのＬ少なくとも２つのアミノ酸の濃度値が含まれており、前記式には、Ａｓｎ，Ｈｉｓ，Ｔｈｒ，Ａｌａ，Ｃｉｔ，Ａｒｇ，Ｔｙｒ，Ｖａｌ，Ｍｅｔ，Ｌｙｓ，Ｔｒｐ，Ｇｌｙ，Ｐｒｏ，Ｏｒｎ，Ｉｌｅ，Ｌｅｕ，Ｐｈｅ，Ｓｅｒ，ＧｌｎのうちのＬ少なくとも２つのアミノ酸の濃度値が代入される少なくとも２つの変数が含まれていること、を特徴とする。

[0045] また、本発明にかかる膵臓癌評価プログラムは、制御部と記憶部とを備えた情報処理装置において実行させるための、評価対象における膵臓癌の状態を評価する膵臓癌評価プログラムであって、前記制御部において実行させるための、アミノ酸の濃度値に関する予め取得された前記評価対象のアミノ酸濃度データ、及び、アミノ酸の濃度値が代入される変数を含む予め前記記憶部に記憶された、膵臓癌の状態を評価するための式を用いて、前記式の値を算出することで、前記評価対象における膵臓癌の状態を評価する評価ステップを含み、前記アミノ酸濃度データには、Ａｓｎ，Ｈｉｓ，Ｔｈｒ，Ａｌａ，Ｃｉｔ，Ａｒｇ，Ｔｙｒ，Ｖａｌ，Ｍｅｔ，Ｌｙｓ，Ｔｒｐ，Ｇｌｙ，Ｐｒｏ，Ｏｒｎ，Ｉｌｅ，Ｌｅｕ，Ｐｈｅ，Ｓｅｒ，ＧＩｎのうちの少なくとも２つのアミノ酸の濃度値が含まれており、前記式には、Ａｓｎ，Ｈｉｓ，Ｔｈｒ，Ａｌａ，Ｃｉｔ，Ａｒｇ，Ｔｙｒ，Ｖａｌ，Ｍｅｔ，Ｌｙｓ，Ｔｒｐ，Ｇｌｙ，Ｐｒｏ，Ｏｒｎ，Ｉｌｅ，Ｌｅｕ，Ｐｈｅ，Ｓｅｒ，ＧＩｎのうちの少なくとも２つのアミノ酸の濃度値が代入される少なくとも２つの変数が含まれていること、を特徴とする。

[0046] また、本発明にかかる記録媒体は、一時的でないコンピュータ読み取り可能な記録媒体であって、情報処理装置に前記膵臓癌評価方法を実行させるためのプログラム化された命令を含むこと、を特徴とする。

[0047] また、本発明にかかる膵臓癌評価システムは、制御部と記憶部とを備え、評価対象における膵臓癌の状態を評価する膵臓癌評価装置と、制御部を備え、アミノ酸の濃度値に関する前記評価対象のアミノ酸濃度データを提供する情報通信端末装置とを、ネットワークを介して通信可能に接続して構成された膵臓癌評価システムであって、前記情報通信端末装置の前記制御部は、前記評価対象の前記アミノ酸濃度データを前記膵臓癌評価装置へ送信するアミノ酸濃度データ送信手段と、前記膵臓癌評価装置から送信された、評価対象における膵臓癌の状態に関する評価結果を受信する評価結果受信手段とを備え、前記膵臓癌評価装置の前記制御部は、前記情報通信端末装置から送信された前記評価対象の前記アミノ酸濃度データを受信するアミノ酸濃度データ

受信手段と、前記アミノ酸濃度データ受信手段で受信した前記評価対象の前記アミノ酸濃度データ、及び、アミノ酸の濃度値が代入される変数を含む予め前記記憶部に記憶された、膵臓癌の状態を評価するための式を用いて、前記式の値を算出することで、前記評価対象における膵臓癌の状態を評価する評価手段と、前記評価手段で得られた前記評価結果を前記情報通信端末装置へ送信する評価結果送信手段と、を備え、前記アミノ酸濃度データには、Ａｓｎ，Ｈｉｓ，Ｔｈｒ，Ａｌａ，Ｃｉｔ，Ａｒｇ，Ｔｙｒ，Ｖａｌ，Ｍｅｔ，Ｌｙｓ，Ｔｒｐ，Ｇｌｙ，Ｐｒｏ，Ｏｒｎ，Ｉｌｅ，Ｌｅｕ，Ｐｈｅ，Ｓｅｒ，ＧＩｎのうちの少なくとも２つのアミノ酸の濃度値が含まれており、前記式には、Ａｓｎ，Ｈｉｓ，Ｔｈｒ，Ａｌａ，Ｃｉｔ，Ａｒｇ，Ｔｙｒ，Ｖａｌ，Ｍｅｔ，Ｌｙｓ，Ｔｒｐ，Ｇｌｙ，Ｐｒｏ，Ｏｒｎ，Ｉｌｅ，Ｌｅｕ，Ｐｈｅ，Ｓｅｒ，ＧＩｎのうちの少なくとも２つのアミノ酸の濃度値が代入される少なくとも２つの変数が含まれていること、を特徴とする。

[0048] また、本発明にかかる情報通信端末装置は、評価対象における膵臓癌の状態を評価する膵臓癌評価装置とネットワークを介して通信可能に接続された、制御部を備え、アミノ酸の濃度値に関する前記評価対象のアミノ酸濃度データを提供する情報通信端末装置であって、前記制御部は、前記評価対象の前記アミノ酸濃度データを前記膵臓癌評価装置へ送信するアミノ酸濃度データ送信手段と、前記膵臓癌評価装置から送信された、前記評価対象における膵臓癌の状態に関する評価結果を受信する評価結果受信手段とを備え、前記評価結果は、前記膵臓癌評価装置が、前記情報通信端末装置から送信された前記評価対象の前記アミノ酸濃度データを受信し、受信した前記評価対象の前記アミノ酸濃度データ、及び、アミノ酸の濃度値が代入される変数を含む予め前記膵臓癌評価装置に記憶された、膵臓癌の状態を評価するための式を用いて、前記式の値を算出することで、前記評価対象における膵臓癌の状態を評価した結果であり、前記アミノ酸濃度データには、Ａｓｎ，Ｈｉｓ，Ｔｈｒ，Ａｌａ，Ｃｉｔ，Ａｒｇ，Ｔｙｒ，Ｖａｌ，Ｍｅｔ，Ｌｙｓ，Ｔｒｐ，Ｇｌｙ，Ｐｒｏ，Ｏｒｎ，Ｉｌｅ，Ｌｅｕ，Ｐｈｅ，Ｓｅｒ，ＧＩｎのう

ちの少なくとも２つのアミノ酸の濃度値が含まれており、前記式には、Ａｓｎ，Ｈｉｓ，Ｔｈｒ，Ａｌａ，Ｃｉｔ，Ａｒｇ，Ｔｙｒ，Ｖａｌ，Ｍｅｔ，Ｌｙｓ，Ｔｒｐ，Ｇｌｙ，Ｐｒｏ，Ｏｒｎ，Ｉｌｅ，Ｌｅｕ，Ｐｈｅ，Ｓｅｒ，ＧｌｎのうちのＸ少なくとも２つのアミノ酸の濃度値が代入される少なくとも２つの変数が含まれていること、を特徴とする。また、本発明にかかる情報通信端末装置は、制御部を備え、アミノ酸の濃度値に関する評価対象のアミノ酸濃度データを提供する情報通信端末装置であって、前記制御部は、前記評価対象における膵臓癌の状態に関する評価結果を受信する評価結果受信手段を備え、前記評価結果は、前記評価対象の前記アミノ酸濃度データ、及び、アミノ酸の濃度値が代入される変数を含む膵臓癌の状態を評価するための式を用いて、前記式の値を算出することで、前記評価対象における膵臓癌の状態を評価した結果であり、前記アミノ酸濃度データには、Ａｓｎ，Ｈｉｓ，Ｔｈｒ，Ａｌａ，Ｃｉｔ，Ａｒｇ，Ｔｙｒ，Ｖａｌ，Ｍｅｔ，Ｌｙｓ，Ｔｒｐ，Ｇｌｙ，Ｐｒｏ，Ｏｒｎ，Ｉｌｅ，Ｌｅｕ，Ｐｈｅ，Ｓｅｒ，ＧｌｎのうちのＸ少なくとも２つのアミノ酸の濃度値が含まれており、前記式には、Ａｓｎ，Ｈｉｓ，Ｔｈｒ，Ａｌａ，Ｃｉｔ，Ａｒｇ，Ｔｙｒ，Ｖａｌ，Ｍｅｔ，Ｌｙｓ，Ｔｒｐ，Ｇｌｙ，Ｐｒｏ，Ｏｒｎ，Ｉｌｅ，Ｌｅｕ，Ｐｈｅ，Ｓｅｒ，ＧｌｎのうちのＸ少なくとも２つのアミノ酸の濃度値が代入される少なくとも２つの変数が含まれていること、を特徴とする。

[0049] また、本発明にかかる膵臓癌評価装置は、アミノ酸の濃度値に関する評価対象のアミノ酸濃度データを提供する情報通信端末装置とネットワークを介して通信可能に接続された、制御部と記憶部とを備え、前記評価対象における膵臓癌の状態を評価する膵臓癌評価装置であって、前記制御部は、前記情報通信端末装置から送信された前記評価対象の前記アミノ酸濃度データを受信するアミノ酸濃度データ受信手段と、前記アミノ酸濃度データ受信手段で受信した前記評価対象の前記アミノ酸濃度データ、及び、アミノ酸の濃度値が代入される変数を含む予め前記記憶部に記憶された、膵臓癌の状態を評価するための式を用いて、前記式の値を算出することで、前記評価対象におけ

る膵臓癌の状態を評価する評価手段と、前記評価手段で得られた、前記評価対象における膵臓癌の状態に関する評価結果を前記情報通信端末装置へ送信する評価結果送信手段と、を備え、前記アミノ酸濃度データには、Ａｓｎ，Ｈｉｓ，Ｔｈｒ，Ａｌａ，Ｃｉｔ，Ａｒｇ，Ｔｙｒ，Ｖａｌ，Ｍｅｔ，Ｌｙｓ，Ｔｒｐ，Ｇｌｙ，Ｐｒｏ，Ｏｒｎ，Ｉｌｅ，Ｌｅｕ，Ｐｈｅ，Ｓｅｒ，ＧＩｎのうちの少なくとも２つのアミノ酸の濃度値が含まれており、前記式には、Ａｓｎ，Ｈｉｓ，Ｔｈｒ，Ａｌａ，Ｃｉｔ，Ａｒｇ，Ｔｙｒ，Ｖａｌ，Ｍｅｔ，Ｌｙｓ，Ｔｒｐ，Ｇｌｙ，Ｐｒｏ，Ｏｒｎ，Ｉｌｅ，Ｌｅｕ，Ｐｈｅ，Ｓｅｒ，ＧＩｎのうちの少なくとも２つのアミノ酸の濃度値が代入される少なくとも２つの変数が含まれていること、を特徴とする。

[0050] また、本発明にかかる膵臓癌の予防・改善物質の探索方法は、１つ又は複数の物質から成る所望の物質群が投与された評価対象から採取した血液中のアミノ酸の濃度値に関するアミノ酸濃度データを取得する取得ステップと、前記取得ステップで取得した前記評価対象の前記アミノ酸濃度データ、及び、アミノ酸の濃度値が代入される変数を含む予め設定された、膵臓癌の状態を評価するための式を用いて、前記式の値を算出することで、前記評価対象における膵臓癌の状態を評価する評価ステップと、前記評価ステップで得られた評価結果を用いて、前記所望の物質群が膵臓癌を予防させるもの又は膵臓癌の状態を改善させるものであるか否かを判定する判定ステップと、を含み、前記アミノ酸濃度データには、Ａｓｎ，Ｈｉｓ，Ｔｈｒ，Ａｌａ，Ｃｉｔ，Ａｒｇ，Ｔｙｒ，Ｖａｌ，Ｍｅｔ，Ｌｙｓ，Ｔｒｐ，Ｇｌｙ，Ｐｒｏ，Ｏｒｎ，Ｉｌｅ，Ｌｅｕ，Ｐｈｅ，Ｓｅｒ，ＧＩｎのうちの少なくとも２つのアミノ酸の濃度値が含まれており、前記式には、Ａｓｎ，Ｈｉｓ，Ｔｈｒ，Ａｌａ，Ｃｉｔ，Ａｒｇ，Ｔｙｒ，Ｖａｌ，Ｍｅｔ，Ｌｙｓ，Ｔｒｐ，Ｇｌｙ，Ｐｒｏ，Ｏｒｎ，Ｉｌｅ，Ｌｅｕ，Ｐｈｅ，Ｓｅｒ，ＧＩｎのうちの少なくとも２つのアミノ酸の濃度値が代入される少なくとも２つの変数が含まれていること、を特徴とする。

発明の効果

[0051] 本発明によれば、評価対象から採取した血液中のアミノ酸の濃度値に関するアミノ酸濃度データ（Ａｓｎ，Ｈｉｓ，Ｔｈｒ，Ａｌａ，Ｃｉｔ，Ａｒｇ，Ｔｙｒ，Ｖａｌ，Ｍｅｔ，Ｌｙｓ，Ｔｒｐ，Ｇｌｙ，Ｐｒｏ，Ｏｒｎ，Ｉｌｅ，Ｌｅｕ，Ｐｈｅ，Ｓｅｒ，ＧｌｎＨで構成される１９種のアミノ酸のうちの少なくとも２つのアミノ酸の濃度値が含まれているもの）を取得し、取得した評価対象のアミノ酸濃度データ、及び、アミノ酸の濃度値が代入される変数を含む予め設定された、膵臓癌の状態を評価するための式（前記１９種のアミノ酸のうちの少なくとも２つのアミノ酸の濃度値が代入される少なくとも２つの変数が含まれているもの）を用いて、式の値を算出することで、評価対象における膵臓癌の状態を評価する。これにより、膵臓癌の状態を知る上で参考となり得る信頼性の高い情報を提供することができる、という効果を奏する。また、この情報の信頼性向上と、利用者に掛かる様々な負担（例えば、精神的負担、身体的負担、時間的負担、又は金銭的負担など）の軽減とを両立して実現することができる、という効果を奏する。

[0052] 本発明によれば、膵臓癌の状態とは、膵臓癌に罹患している可能性の程度のことであり、評価対象における膵臓癌の状態を評価するとは、評価対象が膵臓癌に罹患している可能性の程度を評価することである。これにより、膵臓癌に罹患している可能性の程度を知る上で参考となり得る信頼性の高い情報を提供することができる、という効果を奏する。

[0053] 本発明によれば、膵臓癌に罹患している可能性の程度を少なくとも考慮して定義された複数の区分と、１つ又は複数の閾値が予め設定されており、評価対象が膵臓癌に罹患している可能性の程度を評価するとは、式の値及び閾値を用いて、評価対象を複数の区分のうちのどれか１つに分類することである。これにより、膵臓癌に罹患している可能性の程度を知る上で参考となり得る信頼性の高い情報を、理解し易い形で提供することができる、という効果を奏する。

[0054] 本発明によれば、複数の区分には、膵臓癌に罹患している可能性の程度及び膵臓癌以外の癌に罹患している可能性の程度を少なくとも考慮して定義さ

れた区分が少なくとも１つ含まれている。これにより、膵臓癌に罹患している可能性の程度だけでなく膵臓癌以外の癌に罹患している可能性の程度も知る上で参考となり得る信頼性の高い情報を、理解し易い形で提供することができる、という効果を奏する。

[0055] 本発明によれば、複数の区分には、区分Ｘ及び区分Ｙが含まれている。これにより、膵臓癌に罹患している可能性が高いか低いかを知る上で参考となり得る信頼性の高い情報を、理解し易い形で提供することができる、という効果を奏する。

[0056] 本発明によれば、区分Ｙは、健常である可能性が高い対象を属させるための健常区分、膵臓癌以外の癌（例えば、肺癌、大腸癌、前立腺癌、乳癌、胃癌、子宮癌（子宮頸癌、子宮体癌）、卵巣癌など）に罹患している可能性が高い対象を属させるための他癌区分、又は、健常である可能性が高い対象と膵臓癌以外の癌に罹患している可能性が高い対象を属させるための健常／他癌区分である。これにより、膵臓癌に罹患している可能性が高いかだけでなく、健常である可能性が高いか、膵臓癌以外の癌に罹患している可能性が高いか、又は、健常であるかそれとも膵臓癌以外の癌に罹患している可能性が高いか、も知る上で参考となり得る信頼性の高い情報を、理解し易い形で提供することができる、という効果を奏する。

[0057] 本発明によれば、区分Ｙには、健常である可能性が高い対象を属させるための健常区分、及び、膵臓癌以外の癌に罹患している可能性が高い対象を属させるための他癌区分が含まれている。これにより、膵臓癌に罹患している可能性が高いかだけでなく、健常である可能性が高いか、及び、膵臓癌以外の癌に罹患している可能性が高いか、も知る上で参考となり得る信頼性の高い情報を、理解し易い形で提供することができる、という効果を奏する。

[0058] 本発明によれば、前記の式は、ロジスティック回帰式、分数式、線形判別式、重回帰式、サポートベクターマシンで作成された式、マハラノビス距離法で作成された式、正準判別分析で作成された式、決定木で作成された式のいずれか１つである。これにより、膵臓癌の状態を知る上で参考となり得る

情報の更なる信頼性向上を実現することができる、という効果を奏する。

[0059] なお、本発明によれば、評価対象における膵臓癌の状態を評価するとは、式の値が評価対象における膵臓癌の状態を反映したものであると決定することであってもよい。これにより、膵臓癌の状態を知る上で参考となり得る信頼性の高い情報を提供することができる、という効果を奏する。

[0060] 本発明によれば、式の値を所定の手法で変換し、変換後の値が評価対象における膵臓癌の状態を反映したものであると決定してもよい。これにより、膵臓癌の状態を知る上で参考となり得る信頼性の高い情報を提供することができる、という効果を奏する。

[0061] 本発明によれば、モニタ等の表示装置又は紙等の物理媒体に視認可能に示される、膵臓癌の状態を評価するための所定の物差し（例えば、目盛りが示された物差しであって、式の値又は変換後の値の取り得る範囲又は当該範囲の一部分における上限値と下限値に対応する目盛りが少なくとも示されたもの、など）上における、式の値又は変換後の値に対応する所定の目印（例えば、丸印又は星印など）の位置に関する位置情報を、式の値又は変換後の値を用いて生成し、生成した位置情報が評価対象における膵臓癌の状態を反映したものであると決定してもよい。これにより、膵臓癌の状態を知る上で参考となり得る信頼性の高い情報を提供することができる、という効果を奏する。

[0062] 本発明によれば、式の値を所定の手法で変換し、変換後の値を用いて評価対象を複数の区分のうちのどれか１つに分類してもよい。これにより、膵臓癌の状態を知る上で参考となり得る信頼性の高い情報を、理解し易い形で提供することができる、という効果を奏する。

[0063] 本発明によれば、複数の区分は区分Ｘ及び区分Ｙであり、評価対象を区分Ｘ及び区分Ｙのどちらかに分類してもよい。これにより、膵臓癌に罹患している可能性が高いか低いかを知る上で参考となり得る信頼性の高い情報を、理解し易い形で提供することができる、という効果を奏する。

[0064] 本発明によれば、前記の式を第一の式とし、前記１９種のアミノ酸のうち

の少なくとも２つのアミノ酸の濃度値が代入される少なくとも２つの変数を含む、第一の式とは異なる第二の式がさらに予め設定されており、第一の式の値と第二の式の値を算出し、算出した第一の式の値と第二の式の値を用いて、評価対象を区分Ｘ及び区分Ｙのどちらかに分類してもよい。これにより、膵臓癌に罹患している可能性が高いか低いかを知る上で参考となり得る情報の更なる信頼性向上を実現することができる、という効果を奏する。

[0065] 本発明によれば、（ｉ）区分Ｙには健常区分及び他癌区分が含まれており、（ｉｉ）第一の式は、対象を区分Ｘ及び健常区分のどちらかに分類するためのものであり、第二の式は、対象を区分Ｘ及び他癌区分のどちらかに分類するためのものであり、（ｉｉｉ）先ず、第一の式の値を算出し、算出した第一の式の値を用いて評価対象を区分Ｘ及び健常区分のどちらかに分類し、次に、この分類結果が区分Ｘであった場合には、第二の式の値を算出し、算出した第二の式の値を用いて、第一の式の値を用いて区分Ｘに分類された評価対象を、さらに区分Ｘ及び他癌区分のどちらかに分類し、そして、健常区分に分類された評価対象と他癌区分に分類された評価対象を最終的に区分Ｙに分類してもよい。これにより、膵臓癌に罹患している可能性が高いか低いかを知る上で参考となり得る情報の更なる信頼性向上を実現することができる、という効果を奏する。

[0066] 本発明によれば、評価対象を、区分Ｘ及び健常区分のどちらかに分類してもよい。これにより、膵臓癌に罹患している可能性が高いか、それとも健常である可能性が高いかを知る上で参考となり得る信頼性の高い情報を、理解し易い形で提供することができる、という効果を奏する。

[0067] 本発明によれば、評価対象を、区分Ｘ及び他癌区分のどちらかに分類してもよい。これにより、膵臓癌に罹患している可能性が高いか、それとも膵臓癌以外の癌に罹患している可能性が高いかを知る上で参考となり得る信頼性の高い情報を、理解し易い形で提供することができる、という効果を奏する。

[0068] 本発明によれば、評価対象を、区分Ｘ及び健常／他癌区分のどちらかに分

類してもよい。これにより、膵臓癌に罹患している可能性が高いか、それとも健常である又は膵臓癌以外の癌に罹患している可能性が高いかを知る上で参考となり得る信頼性の高い情報を、理解し易い形で提供することができる、という効果を奏する。

[0069] 本発明によれば、区分Ｙには健常区分及び他癌区分が含まれており、評価対象を、区分Ｘ、健常区分及び他癌区分のうちのどれか１つに分類してもよい。これにより、膵臓癌に罹患している可能性が高いか、健常である可能性が高いか、それとも膵臓癌以外の癌に罹患している可能性が高いかを知る上で参考となり得る信頼性の高い情報を、理解し易い形で提供することができる、という効果を奏する。

[0070] 本発明によれば、前記の式を第一の式とし、前記１９種のアミノ酸のうちの少なくとも２つのアミノ酸の濃度値が代入される少なくとも２つの変数を含む、第一の式とは異なる第二の式がさらに予め設定されており、第一の式の値と第二の式の値を算出し、算出した第一の式の値と第二の式の値を用いて、評価対象を、区分Ｘ、健常区分及び他癌区分のうちのどれか１つに分類してもよい。これにより、膵臓癌に罹患している可能性が高いか、健常である可能性が高いか、それとも膵臓癌以外の癌に罹患している可能性が高いかを知る上で参考となり得る情報の更なる信頼性向上を実現することができる、という効果を奏する。

[0071] 本発明によれば、（ｉ）第一の式は、対象を区分Ｘ及び健常区分のどちらかに分類するためのものであり、第二の式は、対象を区分Ｘ及び他癌区分のどちらかに分類するためのものであり、（ｉｉ）先ず、第一の式の値を算出し、算出した第一の式の値を用いて評価対象を区分Ｘ及び健常区分のどちらかに分類し、次に、この分類結果が区分Ｘであった場合には、第二の式の値を算出し、算出した第二の式の値を用いて、第一の式の値を用いて区分Ｘに分類された評価対象を、さらに区分Ｘ及び他癌区分のどちらかに分類し、そして、第一の式の値を用いて区分Ｘに分類され且つ第二の式の値を用いて他癌区分に分類された評価対象を最終的に他癌区分に分類してもよい。これに

より、膵臓癌に罹患している可能性が高いか、健常である可能性が高いか、それとも膵臓癌以外の癌に罹患している可能性が高いかを知る上で参考となり得る情報の更なる信頼性向上を実現することができる、という効果を奏する。

[0072] なお、本発明によれば、アミノ酸濃度データと膵臓癌の状態を表す指標に関する膵臓癌状態指標データとを含む予め記憶部に記憶された膵臓癌状態情報に基づいて、評価式を作成してもよい。具体的には、（ｉ）膵臓癌状態情報から所定の式作成手法に基づいて候補式を作成し、（ｉｉ）作成した候補式を所定の検証手法に基づいて検証し、（ｉｉｉ）所定の変数選択手法に基づいて候補式の変数を選択することで、候補式を作成する際に用いる膵臓癌状態情報に含まれるアミノ酸濃度データの組み合わせを選択し、（ｉｖ）（ｉ）、（ｉｉ）および（ｉｉｉ）を繰り返し実行して蓄積した検証結果に基づいて、複数の候補式の中から評価式として採用する候補式を選出することで、評価式を作成してもよい。これにより、膵臓癌の状態を評価するのに最適な評価式を作成することができる、という効果を奏する。

[0073] また、本発明によれば、１つ又は複数の物質から成る所望の物質群が投与された評価対象から採取した血液中のアミノ酸の濃度値に関するアミノ酸濃度データ（前記１９種のアミノ酸のうちの少なくとも２つのアミノ酸の濃度値が含まれているもの）を取得し、取得した評価対象のアミノ酸濃度データ、及び、アミノ酸の濃度値が代入される変数を含む予め設定された、膵臓癌の状態を評価するための式（前記１９種のアミノ酸のうちの少なくとも２つのアミノ酸の濃度値が代入される少なくとも２つの変数が含まれているもの）を用いて、式の値を算出することで、評価対象における膵臓癌の状態を評価し、得られた評価結果を用いて、所望の物質群が膵臓癌を予防させるもの又は膵臓癌の状態を改善させるものであるか否かを判定してもよい。これにより、膵臓癌の状態を知る上で参考となり得る信頼性の高い情報を提供することができる膵臓癌の評価方法を応用して、膵臓癌を予防させる物質又は膵臓癌の状態を改善させる物質に関する信頼性の高い情報を提供することがで

きる、という効果を奏する。また、この情報の信頼性向上と、利用者に掛ける様々な負担の軽減とを両立して実現することができる、という効果を奏する。また、膵臓癌に罹患している個体におけるアミノ酸の濃度値の変動パターンに関する典型的なデータ及び膵臓癌の状態を評価するのに適した式を用いることで、膵臓癌の進行状態を一部反映した既存の動物モデルを選択したり臨床で早期に有効な薬物を選択したりすることが可能になる。

[0074] なお、本発明では、膵臓癌の状態を評価する際、前記１９種のアミノ酸以外のアミノ酸の濃度値をさらに用いても構わない。また、本発明では、膵臓癌の状態を評価する際、アミノ酸の濃度値以外に、他の生体情報に関する値（例えば、以下の１．から５．に挙げられた値など）をさらに用いても構わない。また、本発明では、前記の式には、前記１９種のアミノ酸以外のアミノ酸の濃度値が代入される１つ又は複数の変数がさらに含まれていてもよい。また、本発明では、前記の式には、アミノ酸の濃度値が代入される変数以外に、他の生体情報に関する値（例えば、以下の１．から５．に挙げられた値など）が代入される１つ又は複数の変数がさらに含まれていてもよい。

１．アミノ酸以外の他の血中の代謝物（アミノ酸代謝物・糖類・脂質等）、タンパク質、ペプチド、ミネラル、ホルモン等の濃度値

２．血中腫瘍マーカー（ＣＡ１９－９、ＣＥＡ、ＣＡ１２５、ＳＰａｎ－１、ＤＵＰＡＮ－２、ＳＬＸ、ＳＣＣ、ＣＹＦＲＡ、ＰｒｏＧＲＰ、ｐ５３、エラスターゼ等）の値

３．アルブミン、総蛋白、トリグリセリド、ＨｂＡ１ｃ、ＬＤＬコレステロール、ＨＤＬコレステロール、アミラーゼ、総ビリルビン、尿酸等の血液検査値

４．超音波エコー、Ｘ線、ＣＴ、ＭＲＩ等の画像情報から得られる値

５．年齢、身長、体重、ＢＭＩ、血圧、性別、喫煙情報、食事情報、飲酒情報、運動情報、ストレス情報、睡眠情報、家族の既往歴情報、疾患歴情報（糖尿病、膵炎等）等の生体指標に関する値

図面の簡単な説明

[0075] [図1]図１は、第１実施形態の基本原理を示す原理構成図である。

[図2]図２は、第１実施形態にかかる膵臓癌の評価方法の一例を示すフローチャートである。

[図3]図３は、第２実施形態の基本原理を示す原理構成図である。

[図4]図４は、本システムの全体構成の一例を示す図である。

[図5]図５は、本システムの全体構成の他の一例を示す図である。

[図6]図６は、本システムの膵臓癌評価装置１００の構成の一例を示すブロック図である。

[図7]図７は、利用者情報ファイル１０６ａに格納される情報の一例を示す図である。

[図8]図８は、アミノ酸濃度データファイル１０６ｂに格納される情報の一例を示す図である。

[図9]図９は、膵臓癌状態情報ファイル１０６ｃに格納される情報の一例を示す図である。

[図10]図１０は、指定膵臓癌状態情報ファイル１０６ｄに格納される情報の一例を示す図である。

[図11]図１１は、候補式ファイル１０６ｅ１に格納される情報の一例を示す図である。

[図12]図１２は、検証結果ファイル１０６ｅ２に格納される情報の一例を示す図である。

[図13]図１３は、選択膵臓癌状態情報ファイル１０６ｅ３に格納される情報の一例を示す図である。

[図14]図１４は、評価式ファイル１０６ｅ４に格納される情報の一例を示す図である。

[図15]図１５は、評価結果ファイル１０６ｆに格納される情報の一例を示す図である。

[図16]図１６は、評価式作成部１０２ｈの構成を示すブロック図である。

[図17]図１７は、評価部１０２ｉの構成を示すブロック図である。

[図18]図１８は、本システムのクライアント装置２００の構成の一例を示すブロック図である。

[図19]図１９は、本システムのデータベース装置４００の構成の一例を示すブロック図である。

[図20]図２０は、本システムで行う膵臓癌評価サービス処理の一例を示すフローチャートである。

[図21]図２１は、本システムの膵臓癌評価装置１００で行う評価式作成処理の一例を示すフローチャートである。

発明を実施するための形態

[0076] 以下に、本発明に係る膵臓癌の評価方法の実施形態（第１実施形態）、及び、本発明に係る膵臓癌評価装置、膵臓癌評価方法、膵臓癌評価プログラム、記録媒体、膵臓癌評価システム及び情報通信端末装置の実施形態（第２実施形態）を、図面に基づいて詳細に説明する。なお、本発明はこれらの実施形態により限定されるものではない。

[0077] ［第１実施形態］

［１－１．第１実施形態の概要］

ここでは、第１実施形態の概要について図１を参照して説明する。図１は第１実施形態の基本原理を示す原理構成図である。

[0078] まず、評価対象（例えば動物やヒトなどの個体）から採取した血液（例えば血漿、血清などを含む）中のアミノ酸の濃度値に関するアミノ酸濃度データ（Ａｓｎ，Ｈｉｓ，Ｔｈｒ，Ａｌａ，Ｃｉｔ，Ａｒｇ，Ｔｙｒ，Ｖａｌ，Ｍｅｔ，Ｌｙｓ，Ｔｒｐ，Ｇｌｙ，Ｐｒｏ，Ｏｒｎ，Ｉｌｅ，Ｌｅｕ，Ｐｈｅ，Ｓｅｒ，ＧｌｎでＧｌｎで構成される１９種のアミノ酸のうちの少なくとも２つのアミノ酸の濃度値が含まれているもの）を取得する（ステップＳ１１）。

[0079] なお、ステップＳ１１では、例えば、アミノ酸濃度値測定を行う企業等が測定したアミノ酸濃度データを取得してもよく、また、評価対象から採取した血液から、例えば以下の（Ａ）または（Ｂ）などの測定方法でアミノ酸の濃度値を測定することでアミノ酸濃度データを取得してもよい。ここで、ア

ミノ酸の濃度値の単位は、例えばモル濃度や重量濃度、これらの濃度に任意の定数を加減乗除することで得られるものでもよい。

（Ａ）採取した血液サンプルを遠心することにより血液から血漿を分離した。全ての血漿サンプルは、アミノ酸濃度値の測定時まで－８０℃で凍結保存した。アミノ酸濃度値測定時には、アセトニトリルを添加し除蛋白処理を行った後、標識試薬（３－アミノピリジル－Ｎ－ヒドロキシスクシンイミジルカルバメート）を用いてプレカラム誘導体化を行い、そして、液体クロマトグラフ質量分析計（ＬＣ／ＭＳ）によりアミノ酸濃度値を分析した（国際公開第２００３／０６９３２８号、国際公開第２００５／１１６６２９号を参照）。

（Ｂ）採取した血液サンプルを遠心することにより血液から血漿を分離した。全ての血漿サンプルは、アミノ酸濃度値の測定時まで－８０℃で凍結保存した。アミノ酸濃度値測定時には、スルホサリチル酸を添加し除蛋白処理を行った後、ニンヒドリン試薬を用いたポストカラム誘導体化法を原理としたアミノ酸分析計によりアミノ酸濃度値を分析した。

[0080] つぎに、ステップＳ１１で取得したアミノ酸濃度データに含まれている、前記１９種のアミノ酸のうちの少なくとも２つのアミノ酸の濃度値を、膵臓癌の状態を評価するための評価値として用いて、評価対象における膵臓癌の状態を評価する（ステップＳ１２）。なお、ステップＳ１２を実行する前に、ステップＳ１１で取得したアミノ酸濃度データから欠損値や外れ値などのデータを除去してもよい。

[0081] 以上、第１実施形態によれば、ステップＳ１１では評価対象のアミノ酸濃度データを取得し、ステップＳ１２では、ステップＳ１１で取得した評価対象のアミノ酸濃度データに含まれている、前記１９種のアミノ酸のうちの少なくとも２つのアミノ酸の濃度値を評価値として用いて、評価対象における膵臓癌の状態を評価する。これにより、膵臓癌の状態を知る上で参考となり得る信頼性の高い情報を提供することができる。また、この情報の信頼性向上と、利用者に掛ける様々な負担（例えば、精神的負担、身体的負担、時間

的負担、又は金銭的負担など）の軽減とを両立して実現することができる。

[0082] ここで、膵臓癌の状態とは、膵臓癌に罹患している可能性の程度のことであってもよく、また、評価対象における膵臓癌の状態を評価するとは、評価対象が膵臓癌に罹患している可能性の程度を評価することであってもよい。これにより、膵臓癌に罹患している可能性の程度を知る上で参考となり得る信頼性の高い情報を提供することができる。

[0083] また、ステップＳ１２では、ステップＳ１１で取得した評価対象のアミノ酸濃度データに含まれている、前記１９種のアミノ酸のうちの少なくとも２つのアミノ酸の濃度値が、評価対象における膵臓癌の状態を反映したものであると決定してもよく、さらに、濃度値を例えば以下に挙げた手法などで変換し、変換後の値が、評価対象における膵臓癌の状態を反映したものであると決定してもよい。換言すると、ステップＳ１２では、濃度値又は変換後の値そのものを、評価対象における膵臓癌の状態に関する評価結果として扱ってもよい。これにより、膵臓癌の状態を知る上で参考となり得る信頼性の高い情報を提供することができる。

濃度値の取り得る範囲が所定範囲（例えば０．０から１．０までの範囲、０．０から１０．０までの範囲、０．０から１００．０までの範囲、又は－１０．０から１０．０までの範囲、など）に収まるように、例えば、濃度値に対して任意の値を加減乗除したり、また、濃度値を所定の変換手法（例えば、指数変換、対数変換、角変換、平方根変換、プロビット変換、又は逆数変換など）で変換したり、また、濃度値に対してこれらの計算を組み合わせて行ったりすることで、濃度値を変換してもよい。例えば、濃度値を指数としネイピア数を底とする指数関数の値（具体的には、膵臓癌に罹患している確率ｐを定義したときの自然対数Ｌｎ（ｐ／（１－ｐ））が濃度値と等しいとした場合におけるｐ／（１－ｐ）の値）をさらに算出してもよく、また、算出した指数関数の値を１と当該値との和で割った値（具体的には、確率ｐの値）をさらに算出してもよい。

また、特定の条件のときの変換後の値が特定の値となるように、濃度値を

変換してもよい。例えば、特異度が８０％のときの変換後の値が５．０となり且つ特異度が９５％のときの変換後の値が８．０となるように濃度値を変換してもよい。

[0084] また、ステップＳ１２では、モニタ等の表示装置又は紙等の物理媒体に視認可能に示される、膵臓癌の状態を評価するための所定の物差し（例えば、目盛りが示された物差しであって、濃度値又は変換後の値の取り得る範囲又は当該範囲の一部分における上限値と下限値に対応する目盛りが少なくとも示されたもの、など）上における、濃度値又は変換後の値に対応する所定の目印（例えば、丸印又は星印など）の位置に関する位置情報を、ステップＳ１１で取得した評価対象のアミノ酸濃度データに含まれている、前記１９種のアミノ酸のうちの少なくとも２つのアミノ酸の濃度値又は当該濃度値を変換した場合にはその変換後の値を用いて生成し、生成した位置情報が評価対象における膵臓癌の状態を反映したものであると決定してもよい。これにより、膵臓癌の状態を知る上で参考となり得る信頼性の高い情報を提供することができる。

[0085] ここで、ステップＳ１２では、評価対象のアミノ酸濃度データ、及び、アミノ酸の濃度値が代入される変数を含む予め設定された、膵臓癌の状態を評価するための式（前記１９種のアミノ酸のうちの少なくとも２つのアミノ酸の濃度値が代入される少なくとも２つの変数が含まれているもの）を用いて、評価式の値を算出することで、評価対象における膵臓癌の状態を評価してもよい。これにより、膵臓癌の状態を知る上で参考となり得る信頼性の高い情報を提供することができる。

[0086] また、ステップＳ１２では、算出した式の値が評価対象における膵臓癌の状態を反映したものであると決定してもよく、さらに、式の値を例えば以下に挙げた手法などで変換し、変換後の値が評価対象における膵臓癌の状態を反映したものであると決定してもよい。換言すると、ステップＳ１２では、式の値又は変換後の値そのものを、評価対象における膵臓癌の状態に関する評価結果として扱ってもよい。これにより、膵臓癌の状態を知る上で参考と

なり得る信頼性の高い情報を提供することができる。

評価式の値の取り得る範囲が所定範囲（例えば０．０から１．０までの範囲、０．０から１０．０までの範囲、０．０から１００．０までの範囲、又は－１０．０から１０．０までの範囲、など）に収まるように、例えば、評価式の値に対して任意の値を加減乗除したり、また、評価式の値を所定の変換手法（例えば、指数変換、対数変換、角変換、平方根変換、プロビット変換、又は逆数変換など）で変換したり、また、評価式の値に対してこれらの計算を組み合わせて行ったりすることで、評価式の値を変換してもよい。例えば、評価式の値を指数としネイピア数を底とする指数関数の値（具体的には、膵臓癌に罹患している確率ｐを定義したときの自然対数ｌｎ（ｐ／（１－ｐ））が評価式の値と等しいとした場合におけるｐ／（１－ｐ）の値）をさらに算出してもよく、また、算出した指数関数の値を１と当該値との和で割った値（具体的には、確率ｐの値）をさらに算出してもよい。

また、特定の条件のときの変換後の値が特定の値となるように、評価式の値を変換してもよい。例えば、特異度が８０％のときの変換後の値が５．０となり且つ特異度が９５％のときの変換後の値が８．０となるように評価式の値を変換してもよい。

[0087] また、ステップＳ１２では、モニタ等の表示装置又は紙等の物理媒体に視認可能に示される、膵臓癌の状態を評価するための所定の物差し（例えば、目盛りが示された物差しであって、式の値又は変換後の値の取り得る範囲又は当該範囲の一部分における上限値と下限値に対応する目盛りが少なくとも示されたもの、など）上における、式の値又は変換後の値に対応する所定の目印（例えば、丸印又は星印など）の位置に関する位置情報を、式の値又は当該式の値を変換した場合にはその変換後の値を用いて生成し、生成した位置情報が評価対象における膵臓癌の状態を反映したものであると決定してもよい。これにより、膵臓癌の状態を知る上で参考となり得る信頼性の高い情報を提供することができる。

[0088] また、膵臓癌に罹患している可能性の程度を少なくとも考慮して定義され

た複数の区分と、１つ又は複数の閾値を予め設定しておいた場合、ステップＳ１２では、前記１９種のアミノ酸のうちの少なくとも２つのアミノ酸の濃度値又は当該濃度値を変換した場合にはその変換後の値、及び閾値を用いて、評価対象を複数の区分のうちのどれか１つに分類してもよく、また、式の値又は当該式の値を変換した場合にはその変換後の値、及び閾値を用いて、評価対象を複数の区分のうちのどれか１つに分類してもよい。これにより、膵臓癌に罹患している可能性の程度を知る上で参考となり得る信頼性の高い情報を、理解し易い形で提供することができる。

[0089] なお、複数の区分には、膵臓癌に罹患している可能性の程度及び膵臓癌以外の癌（例えば、肺癌、大腸癌、前立腺癌、乳癌、胃癌、子宮癌（子宮頸癌、子宮体癌）、卵巣癌など）に罹患している可能性の程度を少なくとも考慮して定義された区分が少なくとも１つ含まれていてもよい。これにより、膵臓癌に罹患している可能性の程度だけでなく膵臓癌以外の癌に罹患している可能性の程度も知る上で参考となり得る信頼性の高い情報を提供することができる。

ここで、膵臓癌に罹患していないこと（例えば、健常であること、など）が判明している複数のテスト対象のアミノ酸濃度データに含まれている、前記１９種のアミノ酸のうちの少なくとも２つのアミノ酸の濃度値からなる集合において、特異度が所定値（例えば８０又は９５など）となるときの境界値を、閾値として設定してもよい。また、このアミノ酸濃度データ及び評価式を用いて各々のテスト対象ごとに算出した評価式の複数の値からなる集合において、特異度が所定値となるときの境界値を、閾値として設定してもよい。

また、膵臓癌に罹患していることが判明している複数のテスト対象のアミノ酸濃度データに含まれている、前記１９種のアミノ酸のうちの少なくとも２つのアミノ酸の濃度値からなる集合において、感度が所定値（例えば８０又は９５など）となるときの境界値を、閾値として設定してもよい。また、このアミノ酸濃度データ及び評価式を用いて各々のテスト対象ごとに算出し

た評価式の複数の値からなる集合において、感度が所定値となるときの境界値を、閾値として設定してもよい。

[0090] また、複数の区分には、膵臓癌に罹患している可能性が高い対象を属させるための区分Ｘ及び膵臓癌に罹患している可能性が低い対象を属させるための区分Ｙが含まれていてもよい。これにより、膵臓癌に罹患している可能性が高いか低いかを知る上で参考となり得る信頼性の高い情報を、理解し易い形で提供することができる。

[0091] また、区分Ｙには、健常である可能性が高い対象を属させるための健常区分、膵臓癌以外の癌に罹患している可能性が高い対象を属させるための他癌区分、又は、健常である可能性が高い対象と膵臓癌以外の癌に罹患している可能性が高い対象を属させるための健常／他癌区分が含まれていてもよい。これにより、膵臓癌に罹患している可能性が高いかだけでなく、健常である可能性が高いか、膵臓癌以外の癌に罹患している可能性が高いか、又は、健常であるかそれとも膵臓癌以外の癌に罹患している可能性が高いか、も知る上で参考となり得る信頼性の高い情報を、理解し易い形で提供することができる。

[0092] また、区分Ｙには、健常区分及び他癌区分が含まれていてもよい。これにより、膵臓癌に罹患している可能性が高いかだけでなく、健常である可能性が高いか、及び、膵臓癌以外の癌に罹患している可能性が高いか、も知る上で参考となり得る信頼性の高い情報を、理解し易い形で提供することができる。

[0093] また、複数の区分が区分Ｘ及び区分Ｙである場合、ステップＳ１２では、前記１９種のアミノ酸のうちの少なくとも２つのアミノ酸の濃度値又は当該濃度値を変換した場合にはその変換後の値、及び閾値を用いて、評価対象を区分Ｘ及び区分Ｙのどちらかに分類してもよく、また、式の値又は当該式の値を変換した場合にはその変換後の値、及び閾値を用いて、評価対象を区分Ｘ及び区分Ｙのどちらかに分類してもよい。これにより、膵臓癌に罹患している可能性が高いか低いかを知る上で参考となり得る信頼性の高い情報を、

理解し易い形で提供することができる。

なお、前記１９種のアミノ酸のうちの少なくとも２つのアミノ酸の濃度値が代入される少なくとも２つの変数を含む、互いに異なる第一の式と第二の式を評価式として予め設定しておいた場合、ステップＳ１２では、第一の式の値と第二の式の値を算出し、算出した第一の式の値と第二の式の値を用いて、評価対象を区分Ｘ及び区分Ｙのどちらかに分類してもよい。これにより、膵臓癌に罹患している可能性が高いか低いかを知る上で参考となり得る情報の更なる信頼性向上を実現することができる。

具体的には、区分Ｙとして健常区分及び他癌区分を予め設定しておき、第一の式として、対象を区分Ｘ及び健常区分のどちらかに分類するためのものを予め設定しておき、第二の式として、対象を区分Ｘ及び他癌区分のどちらかに分類するためのものを予め設定しておいた場合、ステップＳ１２では、先ず、第一の式の値を算出し、算出した第一の式の値を用いて評価対象を区分Ｘ及び健常区分のどちらかに分類し、次に、この分類結果が区分Ｘであった場合には、第二の式の値を算出し、算出した第二の式の値を用いて、第一の式の値を用いて区分Ｘに分類された評価対象を、さらに区分Ｘ及び他癌区分のどちらかに分類し、そして、健常区分に分類された評価対象と他癌区分に分類された評価対象を最終的に区分Ｙに分類してもよい。

[0094] また、区分Ｙとして健常区分を予め設定しておいた場合、ステップＳ１２では、前記１９種のアミノ酸のうちの少なくとも２つのアミノ酸の濃度値又は当該濃度値を変換した場合にはその変換後の値、及び閾値を用いて、評価対象を区分Ｘ及び健常区分のどちらかに分類してもよく、また、式の値又は当該式の値を変換した場合にはその変換後の値、及び閾値を用いて、評価対象を区分Ｘ及び健常区分のどちらかに分類してもよい。これにより、膵臓癌に罹患している可能性が高いか、それとも健常である可能性が高いかを知る上で参考となり得る信頼性の高い情報を、理解し易い形で提供することができる。

[0095] また、区分Ｙとして他癌区分を予め設定しておいた場合、ステップＳ１２

では、前記１９種のアミノ酸のうちの少なくとも２つのアミノ酸の濃度値又は当該濃度値を変換した場合にはその変換後の値、及び閾値を用いて、評価対象を区分Ｘ及び他癌区分のどちらかに分類してもよく、また、式の値又は当該式の値を変換した場合にはその変換後の値、及び閾値を用いて、評価対象を区分Ｘ及び他癌区分のどちらかに分類してもよい。これにより、膵臓癌に罹患している可能性が高いか、それとも膵臓癌以外の癌に罹患している可能性が高いかを知る上で参考となり得る信頼性の高い情報を、理解し易い形で提供することができる。

[0096] また、区分Ｙとして健常／他癌区分を予め設定しておいた場合、ステップＳ１２では、前記１９種のアミノ酸のうちの少なくとも２つのアミノ酸の濃度値又は当該濃度値を変換した場合にはその変換後の値、及び閾値を用いて、評価対象を区分Ｘ及び健常／他癌区分のどちらかに分類してもよく、また、式の値又は当該式の値を変換した場合にはその変換後の値、及び閾値を用いて、評価対象を区分Ｘ及び健常／他癌区分のどちらかに分類してもよい。これにより、膵臓癌に罹患している可能性が高いか、それとも健常であるか又は膵臓癌以外の癌に罹患している可能性が高いかを知る上で参考となり得る信頼性の高い情報を、理解し易い形で提供することができる。

[0097] また、区分Ｙとして健常区分及び他癌区分を予め設定しておいた場合、ステップＳ１２では、前記１９種のアミノ酸のうちの少なくとも２つのアミノ酸の濃度値又は当該濃度値を変換した場合にはその変換後の値、及び閾値を用いて、評価対象を、区分Ｘ、健常区分及び他癌区分のうちのどれか１つに分類してもよく、また、式の値又は当該式の値を変換した場合にはその変換後の値、及び閾値を用いて、評価対象を、区分Ｘ、健常区分及び他癌区分のうちのどれか１つに分類してもよい。これにより、膵臓癌に罹患している可能性が高いか、健常である可能性が高いか、それとも膵臓癌以外の癌に罹患している可能性が高いかを知る上で参考となり得る信頼性の高い情報を、理解し易い形で提供することができる。

なお、前記１９種のアミノ酸のうちの少なくとも２つのアミノ酸の濃度値

が代入される少なくとも２つの変数を含む、互いに異なる第一の式と第二の式を評価式として予め設定しておいた場合、ステップＳ１２では、第一の式の値と第二の式の値を算出し、算出した第一の式の値と第二の式の値を用いて、評価対象を、区分Ｘ、健常区分及び他癌区分のうちのどれか１つに分類してもよい。これにより、膵臓癌に罹患している可能性が高いか、健常である可能性が高いか、それとも膵臓癌以外の癌に罹患している可能性が高いかを知る上で参考となり得る情報の更なる信頼性向上を実現することができる。

具体的には、第一の式として、対象を区分Ｘ及び健常区分のどちらかに分類するためのものを予め設定しておき、第二の式として、対象を区分Ｘ及び他癌区分のどちらかに分類するためのものを予め設定しておいた場合、ステップＳ１２では、先ず、第一の式の値を算出し、算出した第一の式の値を用いて評価対象を区分Ｘ及び健常区分のどちらかに分類し、次に、この分類結果が区分Ｘであった場合には、第二の式の値を算出し、算出した第二の式の値を用いて、第一の式の値を用いて区分Ｘに分類された評価対象を、さらに区分Ｘ及び他癌区分のどちらかに分類し、そして、第一の式の値を用いて区分Ｘに分類され且つ第二の式の値を用いて他癌区分に分類された評価対象を最終的に他癌区分に分類してもよい。

[0098] また、評価式は、ロジスティック回帰式、分数式、線形判別式、重回帰式、サポートベクターマシンで作成された式、マハラノビス距離法で作成された式、正準判別分析で作成された式、決定木で作成された式のいずれか１つでもよい。これにより、膵臓癌の状態を知る上で参考となり得る情報の更なる信頼性向上を実現することができる。

[0099] なお、本明細書に記載の式の他に、本出願人による国際出願である国際公開第２００８／０１６１１１号、国際公開第２００８／０７５６６２号、国際公開第２００８／０７５６６３号、国際公開第２００９／０９９００５号、国際公開第２００９／１５４２９６号、国際公開第２００９／１５４２９７号に記載の式も評価式としてさらに採用して、膵臓癌の状態を評価するこ

とも可能である。

[0100] ここで、評価式として採用する式を、例えば、本出願人による国際出願である国際公開第２００４／０５２１９１号に記載の方法又は本出願人による国際出願である国際公開第２００６／０９８１９２号に記載の方法で作成してもよい。なお、これらの方法で得られた式であれば、入力データとしてのアミノ酸濃度データにおけるアミノ酸濃度値の単位に因らず、当該式を膵臓癌の状態を評価するのに好適に用いることができる。

[0101] また、評価式として採用する式は、一般に多変量解析で用いられる式の形式を意味するものであり、評価式として採用する式としては、例えば、分数式、重回帰式、多重ロジスティック回帰式、線形判別関数、マハラノビス距離、正準判別関数、サポートベクターマシン、決定木、異なる形式の式の和で示されるような式、などが挙げられる。ここで、重回帰式、多重ロジスティック回帰式、正準判別関数においては各変数に係数及び定数項が付加されるが、この係数及び定数項は、好ましくは実数であれば構わず、より好ましくは、データから前記の各種分類を行うために得られた係数及び定数項の９９％信頼区間の範囲に属する値であれば構わず、さらに好ましくは、データから前記の各種分類を行うために得られた係数及び定数項の９５％信頼区間の範囲に属する値であれば構わない。また、各係数の値、及びその信頼区間は、それを実数倍したものでもよく、定数項の値、及びその信頼区間は、それに任意の実定数を加減乗除したものでもよい。ロジスティック回帰、線形判別、重回帰分析などの表示式を評価式として用いる場合、表示式の線形変換（定数の加算、定数倍）及び単調増加（減少）の変換（例えばｌｏｇｉｔ変換など）は評価性能を変えるものではなく変換前と同等であるので、この表示式には、これらの変換が行われた後のものも含まれる。

[0102] なお、分数式とは、当該分数式の分子がアミノ酸Ａ，Ｂ，Ｃ，・・・の和で表わされ及び／又は当該分数式の分母がアミノ酸ａ，ｂ，ｃ，・・・の和で表わされるものである。また、分数式には、このような構成の分数式α，β，γ，・・・の和（例えば$\alpha+\beta$のようなもの）も含まれる。また、分数

式には、分割された分数式も含まれる。なお、分子や分母に用いられるアミノ酸にはそれぞれ適当な係数がついても構わない。また、分子や分母に用いられるアミノ酸は重複しても構わない。また、各分数式に適当な係数がついても構わない。また、各変数の係数の値や定数項の値は、実数であれば構わない。ある分数式と、当該分数式において分子の変数と分母の変数が入れ替えられたものとでは、目的変数との相関の正負の符号が概して逆転するものの、それらの相関性は保たれるが故に、評価性能も同等と見做せるので、分数式には、分子の変数と分母の変数が入れ替えられたものも含まれる。

[0103] そして、第１実施形態では、膵臓癌の状態を評価する際、前記１９種のアミノ酸以外のアミノ酸の濃度値をさらに用いても構わない。また、第１実施形態では、膵臓癌の状態を評価する際、アミノ酸の濃度値以外に、他の生体情報に関する値（例えば、以下の１．から５．に挙げられた値など）をさらに用いても構わない。また、第１実施形態では、評価式として採用する式には、前記１９種のアミノ酸以外のアミノ酸の濃度値が代入される１つ又は複数の変数がさらに含まれていてもよい。また、第１実施形態では、評価式として採用する式には、アミノ酸の濃度値が代入される変数以外に、他の生体情報に関する値（例えば、以下の１．から５．に挙げられた値など）が代入される１つ又は複数の変数がさらに含まれていてもよい。

１．アミノ酸以外の他の血中の代謝物（アミノ酸代謝物・糖類・脂質等）、タンパク質、ペプチド、ミネラル、ホルモン等の濃度値

２．血中腫瘍マーカー（ＣＡ１９－９、ＣＥＡ、ＣＡ１２５、ＳＰａｎ－１、ＤＵＰＡＮ－２、ＳＬＸ、ＳＣＣ、ＣＹＦＲＡ、ＰｒｏＧＲＰ、ｐ５３、エラスターゼ等）の値

３．アルブミン、総蛋白、トリグリセリド、ＨｂＡ１ｃ、ＬＤＬコレステロール、ＨＤＬコレステロール、アミラーゼ、総ビリルビン、尿酸等の血液検査値

４．超音波エコー、Ｘ線、ＣＴ、ＭＲＩ等の画像情報から得られる値

５．年齢、身長、体重、ＢＭＩ、血圧、性別、喫煙情報、食事情報、飲酒情

報、運動情報、ストレス情報、睡眠情報、家族の既往歴情報、疾患歴情報（糖尿病、膵炎等）等の生体指標に関する値

[0104] また、ステップＳ１１を実行する前に、評価対象に１つ又は複数の物質から成る所望の物質群を投与し、この評価対象から血液を採取しておき、ステップＳ１１で、この評価対象のアミノ酸濃度データを取得する場合、ステップＳ１２で得られた評価結果を用いて、投与した物質群が、膵臓癌を予防させるもの又は膵臓癌の状態を改善させるものであるか否かを判定することで、膵臓癌を予防させる物質又は膵臓癌の状態を改善させる物質を探索してもよい。これにより、膵臓癌の状態を知る上で参考となり得る信頼性の高い情報を提供することができる膵臓癌の評価方法を応用して、膵臓癌を予防させる物質又は膵臓癌の状態を改善させる物質に関する信頼性の高い情報を提供することができる。

なお、ステップＳ１１を実行する前に、例えば、ヒトに投与可能な既存の薬物・アミノ酸・食品・サプリメントを適宜組み合わせたもの（例えば、膵臓癌の予防または改善に効果があること知られている薬物（例えば、ゲムシタビン、エルロチニブ、ＴＳ－１など）などを適宜組み合わせたもの）を、所定の期間（例えば１日から１２ヶ月の範囲）にわたり、所定量ずつ所定の頻度・タイミング（例えば１日３回・食後）で、所定の投与方法（例えば経口投与）により投与してもよい。ここで、投与方法や用量、剤形は、病状に応じて適宜組み合わせてもよい。なお、剤形は、公知の技術に基づいて決めてもよい。また、用量は、特に定めは無いが、例えば有効成分として１ｕｇから１００ｇを含有した形態で与えてもよい。

また、投与した物質群が膵臓癌を予防させるもの又は膵臓癌の状態を改善させるものであるという判定結果が得られた場合には、投与した物質群が、膵臓癌を予防させる物質又は膵臓癌の状態を改善させる物質として探索されてもよい。なお、この探索方法によって探索された物質群として、例えば、前記１９種のアミノ酸のうちの少なくとも２つのアミノ酸を含むアミノ酸群が挙げられる。

また、前記１９種類のアミノ酸のうちの少なくとも２つのアミノ酸を含むアミノ酸群の濃度値や評価式の値を正常化させる物質を、第１実施形態の膵臓癌の評価方法や第２実施形態の膵臓癌評価装置を用いて選択することができる。

また、膵臓癌を予防させる物質又は膵臓癌の状態を改善させる物質を探索するとは、膵臓癌の予防・改善に有効な新規物質を見出すことのみならず、公知物質の膵臓癌の予防・改善用途を新規に見出すことや、膵臓癌の予防・改善に有効性を期待できる既存の薬剤・サプリメント等を組み合わせた新規組成物を見出すことや、上記した適切な用法・用量・組み合わせを見出し、それをキットとすることや、食事・運動等も含めた予防・治療メニューを提示することや、当該予防・治療メニューの効果をモニタリングし、必要に応じて個人ごとにメニューの変更を提示すること等が含まれる。

[0105] ［１－２．第１実施形態の具体例］

ここでは、第１実施形態の具体例について図２を参照して説明する。図２は、第１実施形態の具体例を説明するためのフローチャートである。

[0106] まず、動物やヒトなどの個体から採取した血液中のアミノ酸の濃度値に関するアミノ酸濃度データ（前記１９種のアミノ酸のうちの少なくとも２つのアミノ酸の濃度値が含まれているもの）を取得する（ステップＳＡ１１）。なお、ステップＳＡ１１では、例えば、アミノ酸濃度値測定を行う企業等が測定したアミノ酸濃度データを取得してもよく、また、個体から採取した血液から例えば上述した（Ａ）または（Ｂ）などの測定方法でアミノ酸の濃度値を測定することでアミノ酸濃度データを取得してもよい。

[0107] つぎに、ステップＳＡ１１で取得した個体のアミノ酸濃度データから欠損値や外れ値などのデータを除去する（ステップＳＡ１２）。

[0108] つぎに、ステップＳＡ１２で欠損値や外れ値などのデータが除去された個体のアミノ酸濃度データ、及び、前記１９種のアミノ酸のうちの少なくとも２つのアミノ酸の濃度値が代入される少なくとも２つの変数を含む、評価式として予め設定された式を用いて、式の値を算出し、算出した式の値（評価

値）及び予め設定された閾値を用いて、以下の１．から６．の分類のうちのどれか１つを実行する（ステップＳＡ１３）。

[0109] １．対象が膵臓癌に罹患している可能性の程度を少なくとも考慮して定義された複数の区分（ただし、複数の区分には、対象が膵臓癌に罹患している可能性の程度及び膵臓癌以外の癌に罹患している可能性の程度を少なくとも考慮して定義された区分が少なくとも１つ含まれていてもよい。）と、１つ又は複数の閾値を予め設定しておいた場合、評価値及び閾値を用いて、個体を複数の区分のうちのどれか１つに分類する。

[0110] ２．膵臓癌区分及び非膵臓癌区分と、閾値を予め設定しておいた場合、評価値及び閾値を用いて、個体を膵臓癌区分及び非膵臓癌区分のどちらかに分類する。

なお、評価式として互いに異なる第一の式と第二の式を予め設定しておいた場合、第一の式の値と第二の式の値を算出し、算出した第一の式の値と第二の式の値を用いて、個体を膵臓癌区分及び非膵臓癌区分のどちらかに分類してもよい。

また、非膵臓癌区分として健常区分及び他癌区分を予め設定しておき、第一の式として、対象を膵臓癌区分及び健常区分のどちらかに分類するためのものを予め設定しておき、第二の式として、対象を膵臓癌区分及び他癌区分のどちらかに分類するためのものを予め設定しておいた場合、先ず、第一の式の値を算出し、算出した第一の式の値を用いて個体を膵臓癌区分及び健常区分のどちらかに分類し、次に、この分類結果が膵臓癌区分であった場合には、第二の式の値を算出し、算出した第二の式の値を用いて、第一の式の値を用いて膵臓癌区分に分類された個体を、さらに膵臓癌区分及び他癌区分のどちらかに分類し、そして、健常区分に分類された個体と他癌区分に分類された個体を最終的に非膵臓癌区分に分類してもよい。なお、第一の式の値を用いて膵臓癌区分に分類され且つ第二の式の値を用いて膵臓癌区分に分類された個体は、当然ながら最終的に膵臓癌区分に分類されることになる。

[0111] ３．膵臓癌区分及び健常区分と、閾値を予め設定しておいた場合、式の値及

び閾値を用いて、個体を膵臓癌区分及び健常区分のどちらかに分類する。

[0112] ４．膵臓癌区分及び他癌区分と、閾値を予め設定しておいた場合、式の値及び閾値を用いて、個体を膵臓癌区分及び他癌区分のどちらかに分類する。

[0113] ５．膵臓癌区分及び健常／他癌区分と、閾値を予め設定しておいた場合、式の値及び閾値を用いて、個体を膵臓癌区分及び健常／他癌区分のどちらかに分類する。

[0114] ６．膵臓癌区分、健常区分及び他癌区分と、閾値を予め設定しておいた場合、式の値及び閾値を用いて、個体を、膵臓癌区分、健常区分及び他癌区分のうちのどれか１つに分類する。

なお、評価式として互いに異なる第一の式と第二の式を予め設定しておいた場合、第一の式の値と第二の式の値を算出し、算出した第一の式の値と第二の式の値を用いて、個体を、膵臓癌区分、健常区分及び他癌区分のうちのどれか１つに分類してもよい。

また、第一の式として、対象を膵臓癌区分及び健常区分のどちらかに分類するためのものを予め設定しておき、第二の式として、対象を膵臓癌区分及び他癌区分のどちらかに分類するためのものを予め設定しておいた場合、先ず、第一の式の値を算出し、算出した第一の式の値を用いて個体を膵臓癌区分及び健常区分のどちらかに分類し、次に、この分類結果が膵臓癌区分であった場合には、第二の式の値を算出し、算出した第二の式の値を用いて、第一の式の値を用いて膵臓癌区分に分類された個体を、さらに膵臓癌区分及び他癌区分のどちらかに分類し、そして、第一の式の値を用いて膵臓癌区分に分類され且つ第二の式の値を用いて他癌区分に分類された個体を最終的に他癌区分に分類してもよい。なお、第一の式の値を用いて健常区分に分類された個体は、当然ながら最終的に健常区分に分類され、第一の式の値を用いて膵臓癌区分に分類され且つ第二の式の値を用いて膵臓癌区分に分類された個体は、当然ながら最終的に膵臓癌区分に分類されることになる。

[0115] ［第２実施形態］

［２－１．第２実施形態の概要］

ここでは、第２実施形態の概要について図３を参照して説明する。図３は第２実施形態の基本原理を示す原理構成図である。

[0116] 制御部は、アミノ酸の濃度値に関する予め取得した評価対象（例えば動物やヒトなどの個体）のアミノ酸濃度データに含まれている、Ａｓｎ，Ｈｉｓ，Ｔｈｒ，Ａｌａ，Ｃｉｔ，Ａｒｇ，Ｔｙｒ，Ｖａｌ，Ｍｅｔ，Ｌｙｓ，Ｔｒｐ，Ｇｌｙ，Ｐｒｏ，Ｏｒｎ，Ｉｌｅ，Ｌｅｕ，Ｐｈｅ，Ｓｅｒ，Ｇｌｎで構成される１９種のアミノ酸のうちの少なくとも２つのアミノ酸の濃度値、及び、アミノ酸の濃度値が代入される変数を含む予め記憶部に記憶された、膵臓癌の状態を評価するための式（前記１９種のアミノ酸のうちの少なくとも２つのアミノ酸の濃度値が代入される少なくとも２つの変数が含まれているもの）を用いて、式の値を算出することで、評価対象における膵臓癌の状態を評価する（ステップＳ２１）。

[0117] 以上、第２実施形態によれば、ステップＳ２１では、評価対象のアミノ酸濃度データ、及び、評価式として記憶部に記憶された式を用いて、評価式の値を算出することで、評価対象における膵臓癌の状態を評価する。これにより、膵臓癌の状態を知る上で参考となり得る信頼性の高い情報を提供することができる。また、これらの情報の信頼性向上と、利用者に掛ける様々な負担（例えば、精神的負担、身体的負担、時間的負担、又は金銭的負担など）の軽減とを両立して実現することができる。

[0118] ここで、膵臓癌の状態とは、膵臓癌に罹患している可能性の程度のことであってもよく、また、評価対象における膵臓癌の状態を評価するとは、評価対象が膵臓癌に罹患している可能性の程度を評価することであってもよい。これにより、膵臓癌に罹患している可能性の程度を知る上で参考となり得る信頼性の高い情報を提供することができる。

[0119] また、ステップＳ２１では、算出した式の値が評価対象における膵臓癌の状態を反映したものであると決定してもよく、さらに、式の値を例えば以下に挙げた手法などで変換し、変換後の値が評価対象における膵臓癌の状態を反映したものであると決定してもよい。換言すると、ステップＳ２１では、

式の値又は変換後の値そのものを、評価対象における膵臓癌の状態に関する評価結果として扱ってもよい。これにより、膵臓癌の状態を知る上で参考となり得る信頼性の高い情報を提供することができる。

評価式の値の取り得る範囲が所定範囲（例えば０．０から１．０までの範囲、０．０から１０．０までの範囲、０．０から１００．０までの範囲、又は－１０．０から１０．０までの範囲、など）に収まるように、例えば、評価式の値に対して任意の値を加減乗除したり、また、評価式の値を所定の変換手法（例えば、指数変換、対数変換、角変換、平方根変換、プロビット変換、又は逆数変換など）で変換したり、また、評価式の値に対してこれらの計算を組み合わせて行ったりすることで、評価式の値を変換してもよい。例えば、評価式の値を指数としネイピア数を底とする指数関数の値（具体的には、膵臓癌に罹患している確率ｐを定義したときの自然対数ｌｎ（ｐ／（１－ｐ））が評価式の値と等しいとした場合におけるｐ／（１－ｐ）の値）をさらに算出してもよく、また、算出した指数関数の値を１と当該値との和で割った値（具体的には、確率ｐの値）をさらに算出してもよい。

また、特定の条件のときの変換後の値が特定の値となるように、評価式の値を変換してもよい。例えば、特異度が８０％のときの変換後の値が５．０となり且つ特異度が９５％のときの変換後の値が８．０となるように評価式の値を変換してもよい。

[0120] また、ステップＳ２１では、モニタ等の表示装置又は紙等の物理媒体に視認可能に示される、膵臓癌の状態を評価するための所定の物差し（例えば、目盛りが示された物差しであって、式の値又は変換後の値の取り得る範囲又は当該範囲の一部分における上限値と下限値に対応する目盛りが少なくとも示されたもの、など）上における、式の値又は変換後の値に対応する所定の目印（例えば、丸印又は星印など）の位置に関する位置情報を、式の値又は当該式の値を変換した場合にはその変換後の値を用いて生成し、生成した位置情報が評価対象における膵臓癌の状態を反映したものであると決定してもよい。これにより、膵臓癌の状態を知る上で参考となり得る信頼性の高い情

報を提供することができる。

[0121] また、膵臓癌に罹患している可能性の程度を少なくとも考慮して定義された複数の区分と、１つ又は複数の閾値を予め設定しておいた場合、ステップＳ２１では、式の値又は当該式の値を変換した場合にはその変換後の値、及び閾値を用いて、評価対象を複数の区分のうちのどれか１つに分類してもよい。これにより、膵臓癌に罹患している可能性の程度を知る上で参考となり得る信頼性の高い情報を、理解し易い形で提供することができる。

[0122] なお、複数の区分には、対象が膵臓癌に罹患している可能性の程度及び膵臓癌以外の癌（例えば、肺癌、大腸癌、前立腺癌、乳癌、胃癌、子宮癌（子宮頸癌、子宮体癌）、卵巣癌など）に罹患している可能性の程度を少なくとも考慮して定義された区分が少なくとも１つ含まれていてもよい。これにより、膵臓癌に罹患している可能性の程度だけでなく膵臓癌以外の癌に罹患している可能性の程度も知る上で参考となり得る信頼性の高い情報を提供することができる。

ここで、膵臓癌に罹患していないこと（例えば、健常であること、など）が判明している複数のテスト対象のアミノ酸濃度データ及び評価式を用いて各々のテスト対象ごとに算出した評価式の複数の値からなる集合において、特異度が所定値（例えば８０又は９５など）となるときの境界値を、閾値として設定してもよい。

また、膵臓癌に罹患していることが判明している複数のテスト対象のアミノ酸濃度データ及び評価式を用いて各々のテスト対象ごとに算出した評価式の複数の値からなる集合において、感度が所定値（例えば８０又は９５など）となるときの境界値を、閾値として設定してもよい。

[0123] また、複数の区分には、膵臓癌に罹患している可能性が高い対象を属させるための区分Ｘ及び膵臓癌に罹患している可能性が低い対象を属させるための区分Ｙが含まれていてもよい。これにより、膵臓癌に罹患している可能性が高いか低いかを知る上で参考となり得る信頼性の高い情報を、理解し易い形で提供することができる。

[0124] また、区分Ｙには、健常である可能性が高い対象を属させるための健常区分、膵臓癌以外の癌に罹患している可能性が高い対象を属させるための他癌区分、又は、健常である可能性が高い対象と膵臓癌以外の癌に罹患している可能性が高い対象を属させるための健常／他癌区分が含まれていてもよい。これにより、膵臓癌に罹患している可能性が高いかだけでなく、健常である可能性が高いか、膵臓癌以外の癌に罹患している可能性が高いか、又は、健常であるかそれとも膵臓癌以外の癌に罹患している可能性が高いか、も知る上で参考となり得る信頼性の高い情報を、理解し易い形で提供することができる。

[0125] また、区分Ｙには、健常区分及び他癌区分が含まれていてもよい。これにより、膵臓癌に罹患している可能性が高いかだけでなく、健常である可能性が高いか、及び、膵臓癌以外の癌に罹患している可能性が高いか、も知る上で参考となり得る信頼性の高い情報を、理解し易い形で提供することができる。

[0126] また、複数の区分が区分Ｘ及び区分Ｙである場合、ステップＳ２１では、式の値又は当該式の値を変換した場合にはその変換後の値、及び閾値を用いて、評価対象を区分Ｘ及び区分Ｙのどちらかに分類してもよい。これにより、膵臓癌に罹患している可能性が高いか低いかを知る上で参考となり得る信頼性の高い情報を、理解し易い形で提供することができる。

なお、前記１９種のアミノ酸のうちの少なくとも２つのアミノ酸の濃度値が代入される少なくとも２つの変数を含む、互いに異なる第一の式と第二の式を評価式として予め設定しておいた場合、ステップＳ２１では、第一の式の値と第二の式の値を算出し、算出した第一の式の値と第二の式の値を用いて、評価対象を区分Ｘ及び区分Ｙのどちらかに分類してもよい。これにより、膵臓癌に罹患している可能性が高いか低いかを知る上で参考となり得る情報の更なる信頼性向上を実現することができる。

具体的には、区分Ｙとして健常区分及び他癌区分を予め設定しておき、第一の式として、対象を区分Ｘ及び健常区分のどちらかに分類するためのもの

を予め設定しておき、第二の式として、対象を区分Ｘ及び他癌区分のどちらかに分類するためのものを予め設定しておいた場合、ステップＳ２１では、先ず、第一の式の値を算出し、算出した第一の式の値を用いて評価対象を区分Ｘ及び健常区分のどちらかに分類し、次に、この分類結果が区分Ｘであった場合には、第二の式の値を算出し、算出した第二の式の値を用いて、第一の式の値を用いて区分Ｘに分類された評価対象を、さらに区分Ｘ及び他癌区分のどちらかに分類し、そして、健常区分に分類された評価対象と他癌区分に分類された評価対象を最終的に区分Ｙに分類してもよい。

[0127] また、区分Ｙとして健常区分を予め設定しておいた場合、ステップＳ２１では、式の値又は当該式の値を変換した場合にはその変換後の値、及び閾値を用いて、評価対象を区分Ｘ及び健常区分のどちらかに分類してもよい。これにより、膵臓癌に罹患している可能性が高いか、それとも健常である可能性が高いかを知る上で参考となり得る信頼性の高い情報を、理解し易い形で提供することができる。

[0128] また、区分Ｙとして他癌区分を予め設定しておいた場合、ステップＳ２１では、式の値又は当該式の値を変換した場合にはその変換後の値、及び閾値を用いて、評価対象を区分Ｘ及び他癌区分のどちらかに分類してもよい。これにより、膵臓癌に罹患している可能性が高いか、それとも膵臓癌以外の癌に罹患している可能性が高いかを知る上で参考となり得る信頼性の高い情報を、理解し易い形で提供することができる。

[0129] また、区分Ｙとして健常／他癌区分を予め設定しておいた場合、ステップＳ２１では、式の値又は当該式の値を変換した場合にはその変換後の値、及び閾値を用いて、評価対象を区分Ｘ及び健常／他癌区分のどちらかに分類してもよい。これにより、膵臓癌に罹患している可能性が高いか、それとも健常であるか又は膵臓癌以外の癌に罹患している可能性が高いかを知る上で参考となり得る信頼性の高い情報を、理解し易い形で提供することができる。

[0130] また、区分Ｙとして健常区分及び他癌区分を予め設定しておいた場合、ステップＳ２１では、式の値又は当該式の値を変換した場合にはその変換後の

値、及び閾値を用いて、評価対象を、区分Ｘ、健常区分及び他癌区分のうちのどれか１つに分類してもよい。これにより、膵臓癌に罹患している可能性が高いか、健常である可能性が高いか、それとも膵臓癌以外の癌に罹患している可能性が高いかを知る上で参考となり得る信頼性の高い情報を、理解し易い形で提供することができる。

なお、前記１９種のアミノ酸のうちの少なくとも２つのアミノ酸の濃度値が代入される少なくとも２つの変数を含む、互いに異なる第一の式と第二の式を評価式として予め設定しておいた場合、ステップＳ２１では、第一の式の値と第二の式の値を算出し、算出した第一の式の値と第二の式の値を用いて、評価対象を、区分Ｘ、健常区分及び他癌区分のうちのどれか１つに分類してもよい。これにより、膵臓癌に罹患している可能性が高いか、健常である可能性が高いか、それとも膵臓癌以外の癌に罹患している可能性が高いかを知る上で参考となり得る情報の更なる信頼性向上を実現することができる。

具体的には、第一の式として、対象を区分Ｘ及び健常区分のどちらかに分類するためのものを予め設定しておき、第二の式として、対象を区分Ｘ及び他癌区分のどちらかに分類するためのものを予め設定しておいた場合、ステップＳ２１では、先ず、第一の式の値を算出し、算出した第一の式の値を用いて評価対象を区分Ｘ及び健常区分のどちらかに分類し、次に、この分類結果が区分Ｘであった場合には、第二の式の値を算出し、算出した第二の式の値を用いて、第一の式の値を用いて区分Ｘに分類された評価対象を、さらに区分Ｘ及び他癌区分のどちらかに分類し、そして、第一の式の値を用いて区分Ｘに分類され且つ第二の式の値を用いて他癌区分に分類された評価対象を最終的に他癌区分に分類してもよい。

[0131] また、評価式は、ロジスティック回帰式、分数式、線形判別式、重回帰式、サポートベクターマシンで作成された式、マハラノビス距離法で作成された式、正準判別分析で作成された式、決定木で作成された式のいずれか１つでもよい。これにより、膵臓癌の状態を知る上で参考となり得る情報の更な

る信頼性向上を実現することができる。

[0132] なお、本明細書に記載の式の他に、本出願人による国際出願である国際公開第２００８／０１６１１１号、国際公開第２００８／０７５６６２号、国際公開第２００８／０７５６６３号、国際公開第２００９／０９９００５号、国際公開第２００９／１５４２９６号、国際公開第２００９／１５４２９７号に記載の式もさらに採用して、膵臓癌の状態を評価することも可能である。

[0133] ここで、評価式として採用する式を、例えば、本出願人による国際出願である国際公開第２００４／０５２１９１号に記載の方法又は本出願人による国際出願である国際公開第２００６／０９８１９２号に記載の方法で作成してもよい。なお、これらの方法で得られた式であれば、入力データとしてのアミノ酸濃度データにおけるアミノ酸濃度値の単位に因らず、当該式を膵臓癌の状態を評価するのに好適に用いることができる。

[0134] また、評価式として採用する式は、一般に多変量解析で用いられる式の形式を意味するものであり、評価式として採用する式としては、例えば、分数式、重回帰式、多重ロジスティック回帰式、線形判別関数、マハラノビス距離、正準判別関数、サポートベクターマシン、決定木、異なる形式の式の和で示されるような式、などが挙げられる。ここで、重回帰式、多重ロジスティック回帰式、正準判別関数においては各変数に係数及び定数項が付加されるが、この係数及び定数項は、好ましくは実数であれば構わず、より好ましくは、データから前記の各種分類を行うために得られた係数及び定数項の９９％信頼区間の範囲に属する値であれば構わず、さらに好ましくは、データから前記の各種分類を行うために得られた係数及び定数項の９５％信頼区間の範囲に属する値であれば構わない。また、各係数の値、及びその信頼区間は、それを実数倍したものでもよく、定数項の値、及びその信頼区間は、それに任意の実定数を加減乗除したものでもよい。ロジスティック回帰、線形判別、重回帰分析などの表示式を評価式として用いる場合、表示式の線形変換（定数の加算、定数倍）及び単調増加（減少）の変換（例えばｌｏｇｉｔ

変換など）は評価性能を変えるものではなく変換前と同等であるので、この表示式には、これらの変換が行われた後のものも含まれる。

[0135] なお、分数式とは、当該分数式の分子がアミノ酸Ａ，Ｂ，Ｃ，・・・の和で表わされ及び／又は当該分数式の分母がアミノ酸ａ，ｂ，ｃ，・・・の和で表わされるものである。また、分数式には、このような構成の分数式α，β，γ，・・・の和（例えばα＋βのようなもの）も含まれる。また、分数式には、分割された分数式も含まれる。なお、分子や分母に用いられるアミノ酸にはそれぞれ適当な係数がついても構わない。また、分子や分母に用いられるアミノ酸は重複しても構わない。また、各分数式に適当な係数がついても構わない。また、各変数の係数の値や定数項の値は、実数であれば構わない。ある分数式と、当該分数式において分子の変数と分母の変数が入れ替えられたものとでは、目的変数との相関の正負の符号が概して逆転するものの、それらの相関性は保たれるが故に、評価性能も同等と見做せるので、分数式には、分子の変数と分母の変数が入れ替えられたものも含まれる。

[0136] そして、第２実施形態では、膵臓癌の状態を評価する際、前記１９種のアミノ酸以外のアミノ酸の濃度値をさらに用いても構わない。また、第２実施形態では、膵臓癌の状態を評価する際、アミノ酸の濃度値以外に、他の生体情報に関する値（例えば、以下の１．から５．に挙げられた値など）をさらに用いても構わない。また、第２実施形態では、評価式として採用する式には、前記１９種のアミノ酸以外のアミノ酸の濃度値が代入される１つ又は複数の変数がさらに含まれていてもよい。また、第２実施形態では、評価式として採用する式には、アミノ酸の濃度値が代入される変数以外に、他の生体情報に関する値（例えば、以下の１．から５．に挙げられた値など）が代入される１つ又は複数の変数がさらに含まれていてもよい。

１．アミノ酸以外の他の血中の代謝物（アミノ酸代謝物・糖類・脂質等）、タンパク質、ペプチド、ミネラル、ホルモン等の濃度値

２．血中腫瘍マーカー（ＣＡ１９－９、ＣＥＡ、ＣＡ１２５、ＳＰａｎ－１、ＤＵＰＡＮ－２、ＳＬＸ、ＳＣＣ、ＣＹＦＲＡ、ＰｒｏＧＲＰ、ｐ５３、

エラスターゼ等）の値

３．アルブミン、総蛋白、トリグリセリド、ＨｂＡ１ｃ、ＬＤＬコレステロール、ＨＤＬコレステロール、アミラーゼ、総ビリルビン、尿酸等の血液検査値

４．超音波エコー、Ｘ線、ＣＴ、ＭＲＩ等の画像情報から得られる値

５．年齢、身長、体重、ＢＭＩ、血圧、性別、喫煙情報、食事情報、飲酒情報、運動情報、ストレス情報、睡眠情報、家族の既往歴情報、疾患歴情報（糖尿病、膵炎等）等の生体指標に関する値

[0137] ここで、評価式作成処理（工程１～工程４）の概要について詳細に説明する。なお、ここで説明する処理はあくまでも一例であり、評価式の作成方法はこれに限定されない。

[0138] まず、制御部は、アミノ酸濃度データと膵臓癌の状態を表す指標に関する膵臓癌状態指標データとを含む予め記憶部に記憶された膵臓癌状態情報から所定の式作成手法に基づいて、評価式の候補である候補式（例えば、$y = a_1x_1 + a_2x_2 + \cdots + a_nx_n$、ｙ：膵臓癌状態指標データ、$x_i$：アミノ酸濃度データ、$a_i$：定数、ｉ＝１，２，・・・，ｎ）を作成する（工程１）。なお、事前に、膵臓癌状態情報から欠損値や外れ値などを持つデータを除去してもよい。

[0139] なお、工程１において、膵臓癌状態情報から、複数の異なる式作成手法（主成分分析や判別分析、サポートベクターマシン、重回帰分析、ロジスティック回帰分析、ｋ－ｍｅａｎｓ法、クラスター解析、決定木などの多変量解析に関するものを含む。）を併用して複数の候補式を作成してもよい。具体的には、多数の健常群および膵臓癌群から得た血液を分析して得たアミノ酸濃度データおよび膵臓癌状態指標データから構成される多変量データである膵臓癌状態情報に対して、複数の異なるアルゴリズムを利用して複数群の候補式を同時並行的に作成してもよい。例えば、異なるアルゴリズムを利用して判別分析およびロジスティック回帰分析を同時に行い、２つの異なる候補式を作成してもよい。また、主成分分析を行って作成した候補式を利用して

膵臓癌状態情報を変換し、変換した膵臓癌状態情報に対して判別分析を行うことで候補式を作成してもよい。これにより、最終的に、最適な評価式を作成することができる。

[0140] ここで、主成分分析を用いて作成した候補式は、全てのアミノ酸濃度データの分散を最大にするような各アミノ酸変数を含む一次式である。また、判別分析を用いて作成した候補式は、各群内の分散の和の全てのアミノ酸濃度データの分散に対する比を最小にするような各アミノ酸変数を含む高次式（指数や対数を含む）である。また、サポートベクターマシンを用いて作成した候補式は、群間の境界を最大にするような各アミノ酸変数を含む高次式（カーネル関数を含む）である。また、重回帰分析を用いて作成した候補式は、全てのアミノ酸濃度データからの距離の和を最小にするような各アミノ酸変数を含む高次式である。ロジスティック回帰分析を用いて作成した候補式は、確率の対数オッズを表す線形モデルであり、その確率の尤度を最大にするような各アミノ酸変数を含む一次式である。また、ｋ－ｍｅａｎｓ法とは、各アミノ酸濃度データのｋ個近傍を探索し、近傍点の属する群の中で一番多いものをそのデータの所属群と定義し、入力されたアミノ酸濃度データの属する群と定義された群とが最も合致するようなアミノ酸変数を選択する手法である。また、クラスター解析とは、全てのアミノ酸濃度データの中で最も近い距離にある点同士をクラスタリング（群化）する手法である。また、決定木とは、アミノ酸変数に序列をつけて、序列が上位であるアミノ酸変数の取りうるパターンからアミノ酸濃度データの群を予測する手法である。

[0141] 評価式作成処理の説明に戻り、制御部は、工程１で作成した候補式を、所定の検証手法に基づいて検証（相互検証）する（工程２）。候補式の検証は、工程１で作成した各候補式に対して行う。

[0142] なお、工程２において、ブートストラップ法やホールドアウト法、Ｎ－フォールド法、リーブワンアウト法などのうち少なくとも１つに基づいて候補式の判別率や感度、特異度、情報量基準、ＲＯＣ＿ＡＵＣ（受信者特性曲線の曲線下面積）などのうち少なくとも１つに関して検証してもよい。これに

より、膵臓癌状態情報や評価条件を考慮した予測性または頑健性の高い候補式を作成することができる。

[0143] ここで、判別率とは、全入力データの中で、本実施形態で評価した膵臓癌の状態が正しい割合である。また、感度とは、入力データに記載された膵臓癌の状態になっているものの中で、本実施形態で評価した膵臓癌の状態が正しい割合である。また、特異度とは、入力データに記載された膵臓癌の状態が正常になっているものの中で、本実施形態で評価した膵臓癌の状態が正しい割合である。また、情報量基準とは、工程１で作成した候補式のアミノ酸変数の数と、本実施形態で評価した膵臓癌の状態および入力データに記載された膵臓癌の状態の差異と、を足し合わせたものである。また、ＲＯＣ＿ＡＵＣ（受信者特性曲線の曲線下面積）は、２次元座標上に（ｘ，ｙ）＝（１－特異度，感度）をプロットして作成される曲線である受信者特性曲線（ＲＯＣ）の曲線下面積として定義され、ＲＯＣ＿ＡＵＣの値は完全な判別では１となり、この値が１に近いほど判別性が高いことを示す。また、予測性とは、候補式の検証を繰り返すことで得られた判別率や感度、特異性を平均したものである。また、頑健性とは、候補式の検証を繰り返すことで得られた判別率や感度、特異性の分散である。

[0144] 評価式作成処理の説明に戻り、制御部は、所定の変数選択手法に基づいて候補式の変数を選択することで、候補式を作成する際に用いる膵臓癌状態情報に含まれるアミノ酸濃度データの組み合わせを選択する（工程３）。アミノ酸変数の選択は、工程１で作成した各候補式に対して行ってもよい。これにより、候補式のアミノ酸変数を適切に選択することができる。そして、工程３で選択したアミノ酸濃度データを含む膵臓癌状態情報を用いて再び工程１を実行する。

[0145] なお、工程３において、工程２での検証結果からステップワイズ法、ベストパス法、近傍探索法、遺伝的アルゴリズムのうち少なくとも１つに基づいて候補式のアミノ酸変数を選択してもよい。

[0146] ここで、ベストパス法とは、候補式に含まれるアミノ酸変数を１つずつ順

次減らしていき、候補式が与える評価指標を最適化することでアミノ酸変数を選択する方法である。

[0147] 評価式作成処理の説明に戻り、制御部は、上述した工程１、工程２および工程３を繰り返し実行し、これにより蓄積した検証結果に基づいて、複数の候補式の中から評価式として採用する候補式を選出することで、評価式を作成する（工程４）。なお、候補式の選出には、例えば、同じ式作成手法で作成した候補式の中から最適なものを選出する場合と、すべての候補式の中から最適なものを選出する場合とがある。

[0148] 以上、説明したように、評価式作成処理では、膵臓癌状態情報に基づいて、候補式の作成、候補式の検証および候補式の変数の選択に関する処理を一連の流れで体系化（システム化）して実行することにより、膵臓癌の状態の評価に最適な評価式を作成することができる。換言すると、評価式作成処理では、アミノ酸濃度を多変量の統計解析に用い、最適でロバストな変数の組を選択するために変数選択法とクロスバリデーションとを組み合わせて、評価性能の高い評価式を抽出する。評価式としては、ロジスティック回帰、線形判別、サポートベクターマシン、マハラノビス距離法、重回帰分析、クラスター解析、Ｃｏｘ比例ハザードモデルなどを用いることができる。

[0149] ［２－２．第２実施形態の構成］

ここでは、第２実施形態にかかる膵臓癌評価システム（以下では本システムと記す場合がある。）の構成について、図４から図１９を参照して説明する。なお、本システムはあくまでも一例であり、本発明はこれに限定されない。

[0150] まず、本システムの全体構成について図４および図５を参照して説明する。図４は本システムの全体構成の一例を示す図である。また、図５は本システムの全体構成の他の一例を示す図である。本システムは、図４に示すように、評価対象である個体における膵臓癌の状態を評価する膵臓癌評価装置１００と、アミノ酸の濃度値に関する個体のアミノ酸濃度データを提供するクライアント装置２００（本発明の情報通信端末装置に相当）とを、ネットワ

ーク３００を介して通信可能に接続して構成されている。

[0151] なお、本システムは、図５に示すように、膵臓癌評価装置１００やクライアント装置２００の他に、膵臓癌評価装置１００で評価式を作成する際に用いる膵臓癌状態情報や、膵臓癌の状態を評価する際に用いる評価式などを格納したデータベース装置４００を、ネットワーク３００を介して通信可能に接続して構成されてもよい。これにより、ネットワーク３００を介して、膵臓癌評価装置１００からクライアント装置２００やデータベース装置４００へ、あるいはクライアント装置２００やデータベース装置４００から膵臓癌評価装置１００へ、膵臓癌の状態を知る上で参考となる情報などが提供される。ここで、膵臓癌の状態を知る上で参考となる情報とは、例えば、ヒトを含む生物の膵臓癌の状態に関する特定の項目について測定した値に関する情報などである。また、膵臓癌の状態を知る上で参考となる情報は、膵臓癌評価装置１００やクライアント装置２００や他の装置（例えば各種の計測装置等）で生成され、主にデータベース装置４００に蓄積される。

[0152] つぎに、本システムの膵臓癌評価装置１００の構成について図６から図１７を参照して説明する。図６は、本システムの膵臓癌評価装置１００の構成の一例を示すブロック図であり、該構成のうち本発明に関係する部分のみを概念的に示している。

[0153] 膵臓癌評価装置１００は、当該膵臓癌評価装置を統括的に制御するＣＰＵ等の制御部１０２と、ルータ等の通信装置および専用線等の有線または無線の通信回線を介して当該膵臓癌評価装置をネットワーク３００に通信可能に接続する通信インターフェース部１０４と、各種のデータベースやテーブルやファイルなどを格納する記憶部１０６と、入力装置１１２や出力装置１１４に接続する入出力インターフェース部１０８と、で構成されており、これら各部は任意の通信路を介して通信可能に接続されている。ここで、膵臓癌評価装置１００は、各種の分析装置（例えばアミノ酸アナライザー等）と同一筐体で構成されてもよい。

[0154] 記憶部１０６は、ストレージ手段であり、例えば、ＲＡＭ・ＲＯＭ等のメ

モリ装置や、ハードディスクのような固定ディスク装置、フレキシブルディスク、光ディスク等を用いることができる。記憶部１０６には、ＯＳ（Ｏｐｅｒａｔｉｎｇ　Ｓｙｓｔｅｍ）と協働してＣＰＵに命令を与え各種処理を行うためのコンピュータプログラムが記録されている。記憶部１０６は、図示の如く、利用者情報ファイル１０６ａと、アミノ酸濃度データファイル１０６ｂと、膵臓癌状態情報ファイル１０６ｃと、指定膵臓癌状態情報ファイル１０６ｄと、評価式関連情報データベース１０６ｅと、評価結果ファイル１０６ｆと、を格納する。

[0155] 利用者情報ファイル１０６ａは、利用者に関する利用者情報を格納する。図７は、利用者情報ファイル１０６ａに格納される情報の一例を示す図である。利用者情報ファイル１０６ａに格納される情報は、図７に示すように、利用者を一意に識別するための利用者ＩＤと、利用者が正当な者であるか否かの認証を行うための利用者パスワードと、利用者の氏名と、利用者の所属する所属先を一意に識別するための所属先ＩＤと、利用者の所属する所属先の部門を一意に識別するための部門ＩＤと、部門名と、利用者の電子メールアドレスと、を相互に関連付けて構成されている。

[0156] 図６に戻り、アミノ酸濃度データファイル１０６ｂは、アミノ酸の濃度値に関するアミノ酸濃度データを格納する。図８は、アミノ酸濃度データファイル１０６ｂに格納される情報の一例を示す図である。アミノ酸濃度データファイル１０６ｂに格納される情報は、図８に示すように、評価対象である個体（サンプル）を一意に識別するための個体番号と、アミノ酸濃度データとを相互に関連付けて構成されている。ここで、図８では、アミノ酸濃度データを数値、すなわち連続尺度として扱っているが、アミノ酸濃度データは名義尺度や順序尺度でもよい。なお、名義尺度や順序尺度の場合は、それぞれの状態に対して任意の数値を与えることで解析してもよい。また、アミノ酸濃度データに、前記１９種のアミノ酸以外のアミノ酸の濃度値や、他の生体情報に関する値（例えば、以下の１．から５．に挙げられた値など）を組み合わせてもよい。

１．アミノ酸以外の他の血中の代謝物（アミノ酸代謝物・糖類・脂質等）、タンパク質、ペプチド、ミネラル、ホルモン等の濃度値

２．血中腫瘍マーカー（ＣＡ１９－９、ＣＥＡ、ＣＡ１２５、ＳＰａｎ－１、ＤＵＰＡＮ－２、ＳＬＸ、ＳＣＣ、ＣＹＦＲＡ、ＰｒｏＧＲＰ、ｐ５３、エラスターゼ等）の値

３．アルブミン、総蛋白、トリグリセリド、ＨｂＡ１ｃ、ＬＤＬコレステロール、ＨＤＬコレステロール、アミラーゼ、総ビリルビン、尿酸等の血液検査値

４．超音波エコー、Ｘ線、ＣＴ、ＭＲＩ等の画像情報から得られる値

５．年齢、身長、体重、ＢＭＩ、血圧、性別、喫煙情報、食事情報、飲酒情報、運動情報、ストレス情報、睡眠情報、家族の既往歴情報、疾患歴情報（糖尿病、膵炎等）等の生体指標に関する値

[0157] 図６に戻り、膵臓癌状態情報ファイル１０６ｃは、評価式を作成する際に用いる膵臓癌状態情報を格納する。図９は、膵臓癌状態情報ファイル１０６ｃに格納される情報の一例を示す図である。膵臓癌状態情報ファイル１０６ｃに格納される情報は、図９に示すように、個体番号と、膵臓癌の状態を表す指標（指標T_1、指標T_2、指標T_3・・・）に関する膵臓癌状態指標データ（Ｔ）と、アミノ酸濃度データと、を相互に関連付けて構成されている。ここで、図９では、膵臓癌状態指標データおよびアミノ酸濃度データを数値（すなわち連続尺度）として扱っているが、膵臓癌状態指標データおよびアミノ酸濃度データは名義尺度や順序尺度でもよい。なお、名義尺度や順序尺度の場合は、それぞれの状態に対して任意の数値を与えることで解析してもよい。また、膵臓癌状態指標データは、膵臓癌の状態のマーカーとなる既知の単一の状態指標であり、数値データを用いてもよい。

[0158] 図６に戻り、指定膵臓癌状態情報ファイル１０６ｄは、後述する膵臓癌状態情報指定部１０２ｇで指定した膵臓癌状態情報を格納する。図１０は、指定膵臓癌状態情報ファイル１０６ｄに格納される情報の一例を示す図である。指定膵臓癌状態情報ファイル１０６ｄに格納される情報は、図１０に示す

ように、個体番号と、指定した膵臓癌状態指標データと、指定したアミノ酸濃度データと、を相互に関連付けて構成されている。

[0159] 図６に戻り、評価式関連情報データベース１０６ｅは、後述する候補式作成部１０２ｈ１で作成した候補式を格納する候補式ファイル１０６ｅ１と、後述する候補式検証部１０２ｈ２での検証結果を格納する検証結果ファイル１０６ｅ２と、後述する変数選択部１０２ｈ３で選択したアミノ酸濃度データの組み合わせを含む膵臓癌状態情報を格納する選択膵臓癌状態情報ファイル１０６ｅ３と、後述する評価式作成部１０２ｈで作成した評価式を格納する評価式ファイル１０６ｅ４と、で構成される。

[0160] 候補式ファイル１０６ｅ１は、後述する候補式作成部１０２ｈ１で作成した候補式を格納する。図１１は、候補式ファイル１０６ｅ１に格納される情報の一例を示す図である。候補式ファイル１０６ｅ１に格納される情報は、図１１に示すように、ランクと、候補式（図１１では、F_1（Ｇｌｙ，Ｌｅｕ，Ｐｈｅ，・・・）やF_2（Ｇｌｙ，Ｌｅｕ，Ｐｈｅ，・・・）、F_3（Ｇｌｙ，Ｌｅｕ，Ｐｈｅ，・・・）など）とを相互に関連付けて構成されている。

[0161] 図６に戻り、検証結果ファイル１０６ｅ２は、後述する候補式検証部１０２ｈ２での検証結果を格納する。図１２は、検証結果ファイル１０６ｅ２に格納される情報の一例を示す図である。検証結果ファイル１０６ｅ２に格納される情報は、図１２に示すように、ランクと、候補式（図１２では、F_k（Ｇｌｙ，Ｌｅｕ，Ｐｈｅ，・・・）やF_m（Ｇｌｙ，Ｌｅｕ，Ｐｈｅ，・・・）、F_l（Ｇｌｙ，Ｌｅｕ，Ｐｈｅ，・・・）など）と、各候補式の検証結果（例えば各候補式の評価値）と、を相互に関連付けて構成されている。

[0162] 図６に戻り、選択膵臓癌状態情報ファイル１０６ｅ３は、後述する変数選択部１０２ｈ３で選択した変数に対応するアミノ酸濃度データの組み合わせを含む膵臓癌状態情報を格納する。図１３は、選択膵臓癌状態情報ファイル１０６ｅ３に格納される情報の一例を示す図である。選択膵臓癌状態情報ファイル１０６ｅ３に格納される情報は、図１３に示すように、個体番号と、

後述する膵臓癌状態情報指定部１０２ｇで指定した膵臓癌状態指標データと、後述する変数選択部１０２ｈ３で選択したアミノ酸濃度データと、を相互に関連付けて構成されている。

[0163] 図６に戻り、評価式ファイル１０６ｅ４は、後述する評価式作成部１０２ｈで作成した評価式を格納する。図１４は、評価式ファイル１０６ｅ４に格納される情報の一例を示す図である。評価式ファイル１０６ｅ４に格納される情報は、図１４に示すように、ランクと、評価式（図１４では、F_p（Ｐｈｅ，・・・）やF_p（Ｇｌｙ，Ｌｅｕ，Ｐｈｅ）、F_k（Ｇｌｙ，Ｌｅｕ，Ｐｈｅ，・・・）など）と、各式作成手法に対応する閾値と、各評価式の検証結果（例えば各評価式の評価値）と、を相互に関連付けて構成されている。

[0164] 図６に戻り、評価結果ファイル１０６ｆは、後述する評価部１０２ｉで得られた評価結果を格納する。図１５は、評価結果ファイル１０６ｆに格納される情報の一例を示す図である。評価結果ファイル１０６ｆに格納される情報は、評価対象である個体（サンプル）を一意に識別するための個体番号と、予め取得した個体のアミノ酸濃度データと、膵臓癌の状態に関する評価結果（例えば、後述する算出部１０２ｉ１で算出した評価式の値、後述する変換部１０２ｉ２で評価式の値を変換した後の値、後述する生成部１０２ｉ３で生成した位置情報、又は、後述する分類部１０２ｉ４で得られた分類結果、など）と、を相互に関連付けて構成されている。

[0165] 図６に戻り、記憶部１０６には、上述した情報以外にその他情報として、Ｗｅｂサイトをクライアント装置２００に提供するための各種のＷｅｂデータや、ＣＧＩプログラム等が記録されている。Ｗｅｂデータとしては後述する各種のＷｅｂページを表示するためのデータ等があり、これらデータは例えばＨＴＭＬやＸＭＬで記述されたテキストファイルとして形成されている。また、Ｗｅｂデータを作成するための部品用のファイルや作業用のファイルやその他一時的なファイル等も記憶部１０６に記憶される。記憶部１０６には、必要に応じて、クライアント装置２００に送信するための音声をＷＡＶＥ形式やＡＩＦＦ形式の如き音声ファイルで格納したり、静止画や動画を

ＪＰＥＧ形式やＭＰＥＧ２形式の如き画像ファイルで格納したりすることができる。

[0166] 通信インターフェース部１０４は、膵臓癌評価装置１００とネットワーク３００（またはルータ等の通信装置）との間における通信を媒介する。すなわち、通信インターフェース部１０４は、他の端末と通信回線を介してデータを通信する機能を有する。

[0167] 入出力インターフェース部１０８は、入力装置１１２や出力装置１１４に接続する。ここで、出力装置１１４には、モニタ（家庭用テレビを含む）の他、スピーカやプリンタを用いることができる（なお、以下では、出力装置１１４をモニタ１１４として記載する場合がある。）。入力装置１１２には、キーボードやマウスやマイクの他、マウスと協働してポインティングデバイス機能を実現するモニタを用いることができる。

[0168] 制御部１０２は、ＯＳ（Ｏｐｅｒａｔｉｎｇ Ｓｙｓｔｅｍ）等の制御プログラム・各種の処理手順等を規定したプログラム・所要データなどを格納するための内部メモリを有し、これらのプログラムに基づいて種々の情報処理を実行する。制御部１０２は、図示の如く、大別して、要求解釈部１０２ａと閲覧処理部１０２ｂと認証処理部１０２ｃと電子メール生成部１０２ｄとＷｅｂページ生成部１０２ｅと受信部１０２ｆと膵臓癌状態情報指定部１０２ｇと評価式作成部１０２ｈと評価部１０２ｉと結果出力部１０２ｊと送信部１０２ｋとを備えている。制御部１０２は、データベース装置４００から送信された膵臓癌状態情報やクライアント装置２００から送信されたアミノ酸濃度データに対して、欠損値のあるデータの除去・外れ値の多いデータの除去・欠損値のあるデータの多い変数の除去などのデータ処理も行う。

[0169] 要求解釈部１０２ａは、クライアント装置２００やデータベース装置４００からの要求内容を解釈し、その解釈結果に応じて制御部１０２の各部に処理を受け渡す。閲覧処理部１０２ｂは、クライアント装置２００からの各種画面の閲覧要求を受けて、これら画面のＷｅｂデータの生成や送信を行なう。認証処理部１０２ｃは、クライアント装置２００やデータベース装置４０

０からの認証要求を受けて、認証判断を行う。電子メール生成部１０２ｄは、各種の情報を含んだ電子メールを生成する。Ｗｅｂページ生成部１０２ｅは、利用者がクライアント装置２００で閲覧するＷｅｂページを生成する。

[0170] 受信部１０２ｆは、クライアント装置２００やデータベース装置４００から送信された情報（具体的には、アミノ酸濃度データや膵臓癌状態情報、評価式など）を、ネットワーク３００を介して受信する。膵臓癌状態情報指定部１０２ｇは、評価式を作成するにあたり、対象とする膵臓癌状態指標データおよびアミノ酸濃度データを指定する。

[0171] 評価式作成部１０２ｈは、受信部１０２ｆで受信した膵臓癌状態情報や膵臓癌状態情報指定部１０２ｇで指定した膵臓癌状態情報に基づいて評価式を作成する。具体的には、評価式作成部１０２ｈは、膵臓癌状態情報から、候補式作成部１０２ｈ１、候補式検証部１０２ｈ２および変数選択部１０２ｈ３を繰り返し実行させることにより蓄積された検証結果に基づいて、複数の候補式の中から評価式として採用する候補式を選出することで、評価式を作成する。

[0172] なお、評価式が予め記憶部１０６の所定の記憶領域に格納されている場合には、評価式作成部１０２ｈは、記憶部１０６から所望の評価式を選択することで、評価式を作成してもよい。また、評価式作成部１０２ｈは、評価式を予め格納した他のコンピュータ装置（例えばデータベース装置４００）から所望の評価式を選択しダウンロードすることで、評価式を作成してもよい。

[0173] ここで、評価式作成部１０２ｈの構成について図１６を参照して説明する。図１６は、評価式作成部１０２ｈの構成を示すブロック図であり、該構成のうち本発明に関係する部分のみを概念的に示している。評価式作成部１０２ｈは、候補式作成部１０２ｈ１と、候補式検証部１０２ｈ２と、変数選択部１０２ｈ３と、をさらに備えている。候補式作成部１０２ｈ１は、膵臓癌状態情報から所定の式作成手法に基づいて評価式の候補である候補式を作成する。なお、候補式作成部１０２ｈ１は、膵臓癌状態情報から、複数の異な

る式作成手法を併用して複数の候補式を作成してもよい。候補式検証部１０２ｈ２は、候補式作成部１０２ｈ１で作成した候補式を所定の検証手法に基づいて検証する。なお、候補式検証部１０２ｈ２は、ブートストラップ法、ホールドアウト法、Ｎ－フォールド法、リーブワンアウト法のうち少なくとも１つに基づいて候補式の判別率、感度、特異度、情報量基準、ＲＯＣ＿ＡＵＣ（受信者特性曲線の曲線下面積）のうち少なくとも１つに関して検証してもよい。変数選択部１０２ｈ３は、所定の変数選択手法に基づいて候補式の変数を選択することで、候補式を作成する際に用いる膵臓癌状態情報に含まれるアミノ酸濃度データの組み合わせを選択する。なお、変数選択部１０２ｈ３は、検証結果からステップワイズ法、ベストパス法、近傍探索法、遺伝的アルゴリズムのうち少なくとも１つに基づいて候補式の変数を選択してもよい。

[0174] 図６に戻り、評価部１０２ｉは、事前に得られた式（例えば、評価式作成部１０２ｈで作成した評価式、又は、受信部１０２ｆで受信した評価式など）、及び、受信部１０２ｆで受信した個体のアミノ酸濃度データを用いて、評価式の値を算出することで、個体における膵臓癌の状態を評価する。

[0175] ここで、評価部１０２ｉの構成について図１７を参照して説明する。図１７は、評価部１０２ｉの構成を示すブロック図であり、該構成のうち本発明に関係する部分のみを概念的に示している。評価部１０２ｉは、算出部１０２ｉ１と、変換部１０２ｉ２と、生成部１０２ｉ３と、分類部１０２ｉ４と、をさらに備えている。

[0176] 算出部１０２ｉ１は、アミノ酸濃度データに含まれている、前記１９種のアミノ酸のうちの少なくとも２つのアミノ酸の濃度値、及び、前記１９種類のアミノ酸のうちの少なくとも２つのアミノ酸の濃度値が代入される少なくとも２つの変数を含む評価式を用いて、評価式の値を算出する。なお、評価部１０２ｉは、算出部１０２ｉ１で算出した評価式の値を評価結果として評価結果ファイル１０６ｆの所定の記憶領域に格納してもよい。また、評価式は、ロジスティック回帰式、分数式、線形判別式、重回帰式、サポートベク

ターマシンで作成された式、マハラノビス距離法で作成された式、正準判別分析で作成された式、決定木で作成された式のいずれか１つでもよい。

[0177] 変換部１０２ｉ２は、算出部１０２ｉ１で算出した評価式の値を例えば上述した変換手法などで変換する。なお、評価部１０２ｉは、変換部１０２ｉ２で変換した後の値を評価結果として評価結果ファイル１０６ｆの所定の記憶領域に格納してもよい。

[0178] 生成部１０２ｉ３は、モニタ等の表示装置又は紙等の物理媒体に視認可能に示される、膵臓癌の状態を評価するための所定の物差し（例えば、目盛りが示された物差しであって、式の値又は変換後の値の取り得る範囲又は当該範囲の一部分における上限値と下限値に対応する目盛りが少なくとも示されたもの、など）上における、式の値又は変換後の値に対応する所定の目印（例えば、丸印又は星印など）の位置に関する位置情報を、算出部１０２ｉ１で算出した式の値又は変換部１０２ｉ２で変換した後の値を用いて生成する。なお、評価部１０２ｉは、生成部１０２ｉ３で生成した位置情報を評価結果として評価結果ファイル１０６ｆの所定の記憶領域に格納してもよい。

[0179] 分類部１０２ｉ４は、算出部１０２ｉ１で算出した評価式の値又は変換部１０２ｉ２で変換した後の値を用いて、個体を、膵臓癌に罹患している可能性の程度を少なくとも考慮して定義された、予め設定された複数の区分のうちのどれか１つに分類する。

ここで、複数の区分には、対象が膵臓癌に罹患している可能性の程度及び膵臓癌以外の癌に罹患している可能性の程度を少なくとも考慮して定義された区分が少なくとも１つ含まれていてもよい。

また、複数の区分として区分Ｘ及び区分Ｙを予め設定しておいた場合、分類部１０２ｉ４は、評価値及び閾値を用いて、個体を区分Ｘ及び区分Ｙのどちらかに分類する。なお、評価式として互いに異なる第一の式と第二の式を予め設定しておいた場合、算出部１０２ｉ１は、第一の式の値と第二の式の値を算出し、分類部１０２ｉ４は、第一の式の値と第二の式の値を用いて、個体を区分Ｘ及び区分Ｙのどちらかに分類してもよい。また、区分Ｙとして

健常区分及び他癌区分を予め設定しておき、第一の式として、対象を区分Ｘ及び健常区分のどちらかに分類するためのものを予め設定しておき、第二の式として、対象を区分Ｘ及び他癌区分のどちらかに分類するためのものを予め設定しておいた場合、算出部１０２ｉ１は、先ず、第一の式の値を算出し、分類部１０２ｉ４は、算出した第一の式の値を用いて個体を区分Ｘ及び健常区分のどちらかに分類し、次に、この分類結果が区分Ｘであった場合には、算出部１０２ｉ１は、第二の式の値を算出し、分類部１０２ｉ４は、算出した第二の式の値を用いて、第一の式の値を用いて区分Ｘに分類された個体を、さらに区分Ｘ及び他癌区分のどちらかに分類し、そして、健常区分に分類された個体と他癌区分に分類された個体を最終的に区分Ｙに分類してもよい。

また、複数の区分として区分Ｘ及び健常区分を予め設定しておいた場合、分類部１０２ｉ４は、評価値及び閾値を用いて、個体を区分Ｘ及び健常区分のどちらかに分類する。

また、複数の区分として区分Ｘ及び他癌区分を予め設定しておいた場合、分類部１０２ｉ４は、評価値及び閾値を用いて、個体を区分Ｘ及び他癌区分のどちらかに分類する。

また、複数の区分として区分Ｘ及び健常／他癌区分を予め設定しておいた場合、分類部１０２ｉ４は、評価値及び閾値を用いて、個体を区分Ｘ及び健常／他癌区分のどちらかに分類する。

また、複数の区分として区分Ｘ、健常区分及び他癌区分を予め設定しておいた場合、分類部１０２ｉ４は、評価値及び閾値を用いて、個体を、区分Ｘ、健常区分及び他癌区分のうちのどれか１つに分類する。なお、評価式として互いに異なる第一の式と第二の式を予め設定しておいた場合、算出部１０２ｉ１は、第一の式の値と第二の式の値を算出し、分類部１０２ｉ４は、第一の式の値と第二の式の値を用いて、個体を、区分Ｘ、健常区分及び他癌区分のうちのどれか１つに分類してもよい。また、第一の式として、対象を区分Ｘ及び健常区分のどちらかに分類するためのものを予め設定しておき、第

二の式として、対象を区分Ｘ及び他癌区分のどちらかに分類するためのものを予め設定しておいた場合、算出部１０２ｉ１は、先ず、第一の式の値を算出し、分類部１０２ｉ４は、算出した第一の式の値を用いて個体を区分Ｘ及び健常区分のどちらかに分類し、次に、この分類結果が区分Ｘであった場合には、算出部１０２ｉ１は、第二の式の値を算出し、分類部１０２ｉ４は、算出した第二の式の値を用いて、第一の式の値を用いて区分Ｘに分類された個体を、さらに区分Ｘ及び他癌区分のどちらかに分類し、そして、第一の式の値を用いて区分Ｘに分類され且つ第二の式の値を用いて他癌区分に分類された個体を最終的に他癌区分に分類してもよい。

[0180] 図６に戻り、結果出力部１０２ｊは、制御部１０２の各処理部での処理結果（評価部１０２ｉで得られた評価結果を含む）等を出力装置１１４に出力する。

[0181] 送信部１０２ｋは、個体のアミノ酸濃度データの送信元のクライアント装置２００に対して評価結果を送信したり、データベース装置４００に対して、膵臓癌評価装置１００で作成した評価式や評価結果を送信したりする。

[0182] つぎに、本システムのクライアント装置２００の構成について図１８を参照して説明する。図１８は、本システムのクライアント装置２００の構成の一例を示すブロック図であり、該構成のうち本発明に関係する部分のみを概念的に示している。

[0183] クライアント装置２００は、制御部２１０とＲＯＭ２２０とＨＤ２３０とＲＡＭ２４０と入力装置２５０と出力装置２６０と入出力ＩＦ２７０と通信ＩＦ２８０とで構成されており、これら各部は任意の通信路を介して通信可能に接続されている。

[0184] 制御部２１０は、Ｗｅｂブラウザ２１１、電子メーラ２１２、受信部２１３、送信部２１４を備えている。Ｗｅｂブラウザ２１１は、Ｗｅｂデータを解釈し、解釈したＷｅｂデータを後述するモニタ２６１に表示するブラウズ処理を行う。なお、Ｗｅｂブラウザ２１１には、ストリーム映像の受信・表示・フィードバック等を行う機能を備えたストリームプレイヤ等の各種のソ

フトウェアをプラグインしてもよい。電子メーラ２１２は、所定の通信規約（例えば、ＳＭＴＰ（Ｓｉｍｐｌｅ Ｍａｉｌ Ｔｒａｎｓｆｅｒ Ｐｒｏｔｏｃｏｌ）やＰＯＰ３（Ｐｏｓｔ Ｏｆｆｉｃｅ Ｐｒｏｔｏｃｏｌ ｖｅｒｓｉｏｎ ３）等）に従って電子メールの送受信を行う。受信部２１３は、通信ＩＦ２８０を介して、膵臓癌評価装置１００から送信された評価結果などの各種情報を受信する。送信部２１４は、通信ＩＦ２８０を介して、個体のアミノ酸濃度データなどの各種情報を膵臓癌評価装置１００へ送信する。

[0185] 入力装置２５０はキーボードやマウスやマイク等である。なお、後述するモニタ２６１もマウスと協働してポインティングデバイス機能を実現する。出力装置２６０は、通信ＩＦ２８０を介して受信した情報を出力する出力手段であり、モニタ（家庭用テレビを含む）２６１およびプリンタ２６２を含む。この他、出力装置２６０にスピーカ等を設けてもよい。入出力ＩＦ２７０は入力装置２５０や出力装置２６０に接続する。

[0186] 通信ＩＦ２８０は、クライアント装置２００とネットワーク３００（またはルータ等の通信装置）とを通信可能に接続する。換言すると、クライアント装置２００は、モデムやＴＡやルータなどの通信装置および電話回線を介して、または専用線を介してネットワーク３００に接続される。これにより、クライアント装置２００は、所定の通信規約に従って膵臓癌評価装置１００にアクセスすることができる。

[0187] ここで、プリンタ・モニタ・イメージスキャナ等の周辺装置を必要に応じて接続した情報処理装置（例えば、既知のパーソナルコンピュータ・ワークステーション・家庭用ゲーム装置・インターネットＴＶ・ＰＨＳ端末・携帯端末・移動体通信端末・ＰＤＡ等の情報処理端末など）に、Ｗｅｂデータのブラウジング機能や電子メール機能を実現させるソフトウェア（プログラム、データ等を含む）を実装することにより、クライアント装置２００を実現してもよい。

[0188] また、クライアント装置２００の制御部２１０は、制御部２１０で行う処

理の全部または任意の一部を、ＣＰＵおよび当該ＣＰＵにて解釈して実行するプログラムで実現してもよい。ＲＯＭ２２０またはＨＤ２３０には、ＯＳ（Ｏｐｅｒａｔｉｎｇ　Ｓｙｓｔｅｍ）と協働してＣＰＵに命令を与え、各種処理を行うためのコンピュータプログラムが記録されている。当該コンピュータプログラムは、ＲＡＭ２４０にロードされることで実行され、ＣＰＵと協働して制御部２１０を構成する。また、当該コンピュータプログラムは、クライアント装置２００と任意のネットワークを介して接続されるアプリケーションプログラムサーバに記録されてもよく、クライアント装置２００は、必要に応じてその全部または一部をダウンロードしてもよい。また、制御部２１０で行う処理の全部または任意の一部を、ワイヤードロジック等によるハードウェアで実現してもよい。

[0189] ここで、制御部２１０は、膵臓癌評価装置１００の制御部１０２に備えられている評価部１０２ｉが有する機能と同様の機能を有する評価部２１０ａ（算出部２１０ａ１、変換部２１０ａ２、生成部２１０ａ３、及び分類部２１０ａ４を含む）を備えていてもよい。そして、制御部２１０に評価部２１０ａが備えられている場合には、評価部２１０ａは、膵臓癌評価装置１００から送信された評価結果に含まれている情報に応じて、変換部２１０ａ２で式の値を変換したり、生成部２１０ａ３で式の値又は変換後の値に対応する位置情報を生成したり、分類部２１０ａ４で式の値又は変換後の値を用いて個体を複数の区分のうちのどれか１つに分類したりしてもよい。

[0190] つぎに、本システムのネットワーク３００について図４、図５を参照して説明する。ネットワーク３００は、膵臓癌評価装置１００とクライアント装置２００とデータベース装置４００とを相互に通信可能に接続する機能を有し、例えばインターネットやイントラネットやＬＡＮ（有線／無線の双方を含む）等である。なお、ネットワーク３００は、ＶＡＮや、パソコン通信網や、公衆電話網（アナログ／デジタルの双方を含む）や、専用回線網（アナログ／デジタルの双方を含む）や、ＣＡＴＶ網や、携帯回線交換網または携帯パケット交換網（ＩＭＴ２０００方式、ＧＳＭ（登録商標）方式またはＰ

ＤＣ／ＰＤＣ－Ｐ方式等を含む）や、無線呼出網や、Ｂｌｕｅｔｏｏｔｈ（登録商標）等の局所無線網や、ＰＨＳ網や、衛星通信網（ＣＳ、ＢＳまたはＩＳＤＢ等を含む）等でもよい。

[0191] つぎに、本システムのデータベース装置４００の構成について図１９を参照して説明する。図１９は、本システムのデータベース装置４００の構成の一例を示すブロック図であり、該構成のうち本発明に関係する部分のみを概念的に示している。

[0192] データベース装置４００は、膵臓癌評価装置１００または当該データベース装置で評価式を作成する際に用いる膵臓癌状態情報や、膵臓癌評価装置１００で作成した評価式、膵臓癌評価装置１００での評価結果などを格納する機能を有する。図１９に示すように、データベース装置４００は、当該データベース装置を統括的に制御するＣＰＵ等の制御部４０２と、ルータ等の通信装置および専用線等の有線または無線の通信回路を介して当該データベース装置をネットワーク３００に通信可能に接続する通信インターフェース部４０４と、各種のデータベースやテーブルやファイル（例えばＷｅｂページ用ファイル）などを格納する記憶部４０６と、入力装置４１２や出力装置４１４に接続する入出力インターフェース部４０８と、で構成されており、これら各部は任意の通信路を介して通信可能に接続されている。

[0193] 記憶部４０６は、ストレージ手段であり、例えば、ＲＡＭ・ＲＯＭ等のメモリ装置や、ハードディスクのような固定ディスク装置や、フレキシブルディスクや、光ディスク等を用いることができる。記憶部４０６には、各種処理に用いる各種プログラム等を格納する。通信インターフェース部４０４は、データベース装置４００とネットワーク３００（またはルータ等の通信装置）との間における通信を媒介する。すなわち、通信インターフェース部４０４は、他の端末と通信回線を介してデータを通信する機能を有する。入出力インターフェース部４０８は、入力装置４１２や出力装置４１４に接続する。ここで、出力装置４１４には、モニタ（家庭用テレビを含む）の他、スピーカやプリンタを用いることができる（なお、以下で、出力装置４１４を

モニタ４１４として記載する場合がある。）。また、入力装置４１２には、キーボードやマウスやマイクの他、マウスと協働してポインティングデバイス機能を実現するモニタを用いることができる。

[0194] 制御部４０２は、ＯＳ（Ｏｐｅｒａｔｉｎｇ　Ｓｙｓｔｅｍ）等の制御プログラム・各種の処理手順等を規定したプログラム・所要データなどを格納するための内部メモリを有し、これらのプログラムに基づいて種々の情報処理を実行する。制御部４０２は、図示の如く、大別して、要求解釈部４０２ａと閲覧処理部４０２ｂと認証処理部４０２ｃと電子メール生成部４０２ｄとＷｅｂページ生成部４０２ｅと送信部４０２ｆとを備えている。

[0195] 要求解釈部４０２ａは、膵臓癌評価装置１００からの要求内容を解釈し、その解釈結果に応じて制御部４０２の各部に処理を受け渡す。閲覧処理部４０２ｂは、膵臓癌評価装置１００からの各種画面の閲覧要求を受けて、これら画面のＷｅｂデータの生成や送信を行う。認証処理部４０２ｃは、膵臓癌評価装置１００からの認証要求を受けて、認証判断を行う。電子メール生成部４０２ｄは、各種の情報を含んだ電子メールを生成する。Ｗｅｂページ生成部４０２ｅは、利用者がクライアント装置２００で閲覧するＷｅｂページを生成する。送信部４０２ｆは、膵臓癌状態情報や評価式などの各種情報を、膵臓癌評価装置１００へ送信する。

[0196] ［２－３．第２実施形態の具体例］

ここでは、第２実施形態の具体例について図２０を参照して説明する。図２０は、第２実施形態にかかる膵臓癌評価サービス処理の一例を示すフローチャートである。

[0197] なお、本処理で用いるアミノ酸濃度データは、例えば動物やヒトなどの個体から予め採取した血液（例えば血漿、血清などを含む）を、以下の（Ａ）または（Ｂ）などの測定方法で専門業者が分析又は独自に分析して得たアミノ酸の濃度値に関するものである。ここで、アミノ酸の濃度値の単位は、例えばモル濃度や重量濃度、これらの濃度に任意の定数を加減乗除することで得られるものでもよい。

（Ａ）採取した血液サンプルを遠心することにより血液から血漿を分離した。全ての血漿サンプルは、アミノ酸濃度値の測定時まで－８０℃で凍結保存した。アミノ酸濃度値測定時には、アセトニトリルを添加し除蛋白処理を行った後、標識試薬（３－アミノピリジル－Ｎ－ヒドロキシスクシンイミジルカルバメート）を用いてプレカラム誘導体化を行い、そして、液体クロマトグラフ質量分析計（ＬＣ／ＭＳ）によりアミノ酸の濃度値を分析した（国際公開第２００３／０６９３２８号、国際公開第２００５／１１６６２９号を参照）。

（Ｂ）採取した血液サンプルを遠心することにより血液から血漿を分離した。全ての血漿サンプルは、アミノ酸濃度値の測定時まで－８０℃で凍結保存した。アミノ酸濃度値測定時には、スルホサリチル酸を添加し除蛋白処理を行った後、ニンヒドリン試薬を用いたポストカラム誘導体化法を原理としたアミノ酸分析計によりアミノ酸の濃度値を分析した。

[0198] まず、Ｗｅｂブラウザ２１１を表示した画面上で利用者が入力装置２５０を介して膵臓癌評価装置１００が提供するＷｅｂサイトのアドレス（ＵＲＬなど）を指定すると、クライアント装置２００は膵臓癌評価装置１００へアクセスする。具体的には、利用者がクライアント装置２００のＷｅｂブラウザ２１１の画面更新を指示すると、Ｗｅｂブラウザ２１１は、膵臓癌評価装置１００が提供するＷｅｂサイトのアドレスを所定の通信規約で膵臓癌評価装置１００へ送信することで、アミノ酸濃度データ送信画面に対応するＷｅｂページの送信要求を、当該アドレスに基づくルーティングで膵臓癌評価装置１００へ行う。

[0199] つぎに、膵臓癌評価装置１００は、要求解釈部１０２ａで、クライアント装置２００からの送信を受け、当該送信の内容を解析し、解析結果に応じて制御部１０２の各部に処理を移す。具体的には、送信の内容がアミノ酸濃度データ送信画面に対応するＷｅｂページの送信要求であった場合、膵臓癌評価装置１００は、主として閲覧処理部１０２ｂで、記憶部１０６の所定の記憶領域に格納されている当該Ｗｅｂページを表示するためのＷｅｂデータを

取得し、取得したＷｅｂデータをクライアント装置２００へ送信する。より具体的には、利用者からアミノ酸濃度データ送信画面に対応するＷｅｂページの送信要求があった場合、膵臓癌評価装置１００は、まず、制御部１０２で、利用者ＩＤや利用者パスワードの入力を利用者に対して求める。そして、利用者ＩＤやパスワードが入力されると、膵臓癌評価装置１００は、認証処理部１０２ｃで、入力された利用者ＩＤやパスワードと利用者情報ファイル１０６ａに格納されている利用者ＩＤや利用者パスワードとの認証判断を行う。そして、膵臓癌評価装置１００は、認証可の場合にのみ、閲覧処理部１０２ｂで、アミノ酸濃度データ送信画面に対応するＷｅｂページを表示するためのＷｅｂデータをクライアント装置２００へ送信する。なお、クライアント装置２００の特定は、クライアント装置２００から送信要求と共に送信されたＩＰアドレスで行う。

[0200] つぎに、クライアント装置２００は、膵臓癌評価装置１００から送信されたＷｅｂデータ（アミノ酸濃度データ送信画面に対応するＷｅｂページを表示するためのもの）を受信部２１３で受信し、受信したＷｅｂデータをＷｅｂブラウザ２１１で解釈し、モニタ２６１にアミノ酸濃度データ送信画面を表示する。

[0201] つぎに、モニタ２６１に表示されたアミノ酸濃度データ送信画面に対し利用者が入力装置２５０を介して個体のアミノ酸濃度データなどを入力・選択すると、クライアント装置２００は、送信部２１４で、入力情報や選択事項を特定するための識別子を膵臓癌評価装置１００へ送信することで、個体のアミノ酸濃度データを膵臓癌評価装置１００へ送信する（ステップＳＡ２１）。なお、ステップＳＡ２１におけるアミノ酸濃度データの送信は、ＦＴＰ等の既存のファイル転送技術等により実現してもよい。

[0202] つぎに、膵臓癌評価装置１００は、要求解釈部１０２ａで、クライアント装置２００から送信された識別子を解釈することによりクライアント装置２００の要求内容を解釈し、評価式の送信要求をデータベース装置４００へ行う。

[0203] つぎに、データベース装置４００は、要求解釈部４０２ａで、膵臓癌評価装置１００からの送信要求を解釈し、記憶部４０６の所定の記憶領域に格納した評価式（例えばアップデートされた最新のもの）を膵臓癌評価装置１００へ送信する（ステップＳＡ２２）。具体的には、ステップＳＡ２２では、前記１９種のアミノ酸のうちの少なくとも２つのアミノ酸の濃度値が代入される少なくとも２つの変数を含む１つまたは複数の評価式（例えば、ロジスティック回帰式、分数式、線形判別式、重回帰式、サポートベクターマシンで作成された式、マハラノビス距離法で作成された式、正準判別分析で作成された式、決定木で作成された式のいずれか１つ）を膵臓癌評価装置１００へ送信する。

[0204] つぎに、膵臓癌評価装置１００は、受信部１０２ｆで、クライアント装置２００から送信された個体のアミノ酸濃度データ及びデータベース装置４００から送信された評価式を受信し、受信したアミノ酸濃度データをアミノ酸濃度データファイル１０６ｂの所定の記憶領域に格納すると共に、受信した評価式を評価式ファイル１０６ｅ４の所定の記憶領域に格納する（ステップＳＡ２３）。

[0205] つぎに、膵臓癌評価装置１００は、制御部１０２で、ステップＳＡ２３で受信した個体のアミノ酸濃度データから欠損値や外れ値などのデータを除去する（ステップＳＡ２４）。

[0206] つぎに、評価部１０２ｉは、算出部１０２ｉ１で、ステップＳＡ２４で欠損値や外れ値などのデータが除去された個体のアミノ酸濃度データ、及び、ステップＳＡ２３で受信した１つ又は複数の評価式を用いて、１つ又は複数の、評価式の値を算出する（ステップＳＡ２５）。

なお、ステップＳＡ２３で評価式として互いに異なる第一の式と第二の式を受信した場合、評価部１０２ｉは、算出部１０２ｉ１で、第一の式の値と第二の式の値を算出してもよい。

また、ステップＳＡ２３で、対象を膵臓癌区分及び健常区分のどちらかに分類するための第一の式と、対象を膵臓癌区分及び他癌区分のどちらかに分

類するための第二の式を受信した場合、評価部１０２ｉは、算出部１０２ｉ１で、先ず、第一の式の値を算出し、分類部１０２ｉ４で得られた分類結果が膵臓癌区分であった場合には、第二の式の値を算出してもよい。

[0207] つぎに、評価部１０２ｉは、分類部１０２ｉ４で、ステップＳＡ２５で算出した評価式の値（評価値）及び予め設定された閾値を用いて、以下の１．から６．の分類のうちのどれか１つを実行し、得られた分類結果を評価結果ファイル１０６ｆの所定の記憶領域に格納する（ステップＳＡ２６）。

[0208] １．対象が膵臓癌に罹患している可能性の程度を少なくとも考慮して定義された複数の区分（ただし、複数の区分には、対象が膵臓癌に罹患している可能性の程度及び膵臓癌以外の癌に罹患している可能性の程度を少なくとも考慮して定義された区分が少なくとも１つ含まれていてもよい。）と、１つ又は複数の閾値を予め設定しておいた場合、評価部１０２ｉは、分類部１０２ｉ４で、評価値及び閾値を用いて、個体を複数の区分のうちのどれか１つに分類する。

[0209] ２．膵臓癌区分及び非膵臓癌区分と、閾値を予め設定しておいた場合、評価部１０２ｉは、分類部１０２ｉ４で、評価値及び閾値を用いて、個体を膵臓癌区分及び非膵臓癌区分のどちらかに分類する。

なお、ステップＳＡ２３で評価式として互いに異なる第一の式と第二の式を受信した場合、評価部１０２ｉは、分類部１０２ｉ４で、算出部１０２ｉ１で算出した第一の式の値と第二の式の値を用いて、個体を膵臓癌区分及び非膵臓癌区分のどちらかに分類してもよい。

また、非膵臓癌区分として健常区分及び他癌区分を予め設定しておき、ステップＳＡ２３で、対象を膵臓癌区分及び健常区分のどちらかに分類するための第一の式と、対象を膵臓癌区分及び他癌区分のどちらかに分類するための第二の式を受信した場合、評価部１０２ｉは、分類部１０２ｉ４で、算出部１０２ｉ１で算出した第一の式の値を用いて個体を膵臓癌区分及び健常区分のどちらかに分類し、次に、この分類結果が膵臓癌区分であった場合には、算出部１０２ｉで算出した第二の式の値を用いて、第一の式の値を用いて

膵臓癌区分に分類された個体を、さらに膵臓癌区分及び他癌区分のどちらかに分類し、そして、健常区分に分類された個体と他癌区分に分類された個体を最終的に非膵臓癌区分に分類してもよい。なお、第一の式の値を用いて膵臓癌区分に分類され且つ第二の式の値を用いて膵臓癌区分に分類された個体は、当然ながら最終的に膵臓癌区分に分類されることになる。

[0210] ３．膵臓癌区分及び健常区分と、閾値を予め設定しておいた場合、評価部１０２ｉは、分類部１０２ｉ４で、評価値及び閾値を用いて、個体を膵臓癌区分及び健常区分のどちらかに分類する。

[0211] ４．膵臓癌区分及び他癌区分と、閾値を予め設定しておいた場合、評価部１０２ｉは、分類部１０２ｉ４で、評価値及び閾値を用いて、個体を膵臓癌区分及び他癌区分のどちらかに分類する。

[0212] ５．膵臓癌区分及び健常／他癌区分と、閾値を予め設定しておいた場合、評価部１０２ｉは、分類部１０２ｉ４で、評価値及び閾値を用いて、個体を膵臓癌区分及び健常／他癌区分のどちらかに分類する。

[0213] ６．膵臓癌区分、健常区分及び他癌区分と、閾値を予め設定しておいた場合、評価部１０２ｉは、分類部１０２ｉ４で、評価値及び閾値を用いて、個体を、膵臓癌区分、健常区分及び他癌区分のうちのどれか１つに分類する。

なお、ステップＳＡ２３で評価式として互いに異なる第一の式と第二の式を受信した場合、評価部１０２ｉは、分類部１０２ｉ４で、算出部１０２ｉ１で算出した第一の式の値と第二の式の値を用いて、個体を、膵臓癌区分、健常区分及び他癌区分のうちのどれか１つに分類してもよい。

また、ステップＳＡ２３で、対象を膵臓癌区分及び健常区分のどちらかに分類するための第一の式と、対象を膵臓癌区分及び他癌区分のどちらかに分類するための第二の式を受信した場合、評価部１０２ｉは、分類部１０２ｉ４で、算出部１０２ｉ１で算出した第一の式の値を用いて個体を膵臓癌区分及び健常区分のどちらかに分類し、次に、この分類結果が膵臓癌区分であった場合には、算出部１０２ｉで算出した第二の式の値を用いて、第一の式の値を用いて膵臓癌区分に分類された個体を、さらに膵臓癌区分及び他癌区分

のどちらかに分類し、そして、第一の式の値を用いて膵臓癌区分に分類され且つ第二の式の値を用いて他癌区分に分類された個体を最終的に他癌区分に分類してもよい。なお、第一の式の値を用いて健常区分に分類された個体は、当然ながら最終的に健常区分に分類され、第一の式の値を用いて膵臓癌区分に分類され且つ第二の式の値を用いて膵臓癌区分に分類された個体は、当然ながら最終的に膵臓癌区分に分類されることになる。

[0214] 図２０の説明に戻り、膵臓癌評価装置１００は、送信部１０２ｋで、ステップＳＡ２６で得た分類結果を、アミノ酸濃度データの送信元のクライアント装置２００とデータベース装置４００とへ送信する（ステップＳＡ２７）。具体的には、まず、膵臓癌評価装置１００は、Ｗｅｂページ生成部１０２ｅで、分類結果を表示するためのＷｅｂページを作成し、作成したＷｅｂページに対応するＷｅｂデータを記憶部１０６の所定の記憶領域に格納する。ついで、利用者がクライアント装置２００のＷｅｂブラウザ２１１に入力装置２５０を介して所定のＵＲＬを入力し上述した認証を経た後、クライアント装置２００は、当該Ｗｅｂページの閲覧要求を膵臓癌評価装置１００へ送信する。ついで、膵臓癌評価装置１００は、閲覧処理部１０２ｂで、クライアント装置２００から送信された閲覧要求を解釈し、分類結果を表示するためのＷｅｂページに対応するＷｅｂデータを記憶部１０６の所定の記憶領域から読み出す。そして、膵臓癌評価装置１００は、送信部１０２ｋで、読み出したＷｅｂデータをクライアント装置２００へ送信すると共に、当該Ｗｅｂデータ又は分類結果をデータベース装置４００へ送信する。

[0215] ここで、ステップＳＡ２７において、膵臓癌評価装置１００は、制御部１０２で、分類結果を電子メールで利用者のクライアント装置２００へ通知してもよい。具体的には、まず、膵臓癌評価装置１００は、電子メール生成部１０２ｄで、利用者ＩＤなどを基にして利用者情報ファイル１０６ａに格納されている利用者情報を送信タイミングに従って参照し、利用者の電子メールアドレスを取得する。ついで、膵臓癌評価装置１００は、電子メール生成部１０２ｄで、取得した電子メールアドレスを宛て先とし利用者の氏名およ

び分類結果を含む電子メールに関するデータを生成する。ついで、膵臓癌評価装置１００は、送信部１０２ｋで、生成した当該データを利用者のクライアント装置２００へ送信する。

[0216] また、ステップＳＡ２７において、膵臓癌評価装置１００は、ＦＴＰ等の既存のファイル転送技術等で、分類結果を利用者のクライアント装置２００へ送信してもよい。

[0217] 図２０の説明に戻り、データベース装置４００は、制御部４０２で、膵臓癌評価装置１００から送信された分類結果またはＷｅｂデータを受信し、受信した分類結果またはＷｅｂデータを記憶部４０６の所定の記憶領域に保存（蓄積）する（ステップＳＡ２８）。

[0218] また、クライアント装置２００は、受信部２１３で、膵臓癌評価装置１００から送信されたＷｅｂデータを受信し、受信したＷｅｂデータをＷｅｂブラウザ２１１で解釈し、個体の分類結果が記されたＷｅｂページの画面をモニタ２６１に表示する（ステップＳＡ２９）。なお、分類結果が膵臓癌評価装置１００から電子メールで送信された場合には、クライアント装置２００は、電子メーラ２１２の公知の機能で、膵臓癌評価装置１００から送信された電子メールを任意のタイミングで受信し、受信した電子メールをモニタ２６１に表示する。

[0219] 以上により、利用者は、モニタ２６１に表示されたＷｅｂページを閲覧することで、分類結果を確認することができる。なお、利用者は、モニタ２６１に表示されたＷｅｂページの表示内容をプリンタ２６２で印刷してもよい。

[0220] また、分類結果が膵臓癌評価装置１００から電子メールで送信された場合には、利用者は、モニタ２６１に表示された電子メールを閲覧することで、分類結果を確認することができる。利用者は、モニタ２６１に表示された電子メールの表示内容をプリンタ２６２で印刷してもよい。

[0221] 以上、詳細に説明したように、クライアント装置２００は個体のアミノ酸濃度データを膵臓癌評価装置１００へ送信し、データベース装置４００は膵

臓癌評価装置１００からの要求を受けて、評価式を膵臓癌評価装置１００へ送信する。そして、膵臓癌評価装置１００は、（ｉ）クライアント装置２００からアミノ酸濃度データを受信すると共にデータベース装置４００から評価式を受信し、（ｉｉ）受信したアミノ酸濃度データ及び評価式を用いて評価値を算出し、（ｉｉｉ）算出した評価値及び閾値を用いて、前記の１．から６．の分類のうちのどれか１つを実行し、（ｉｖ）得られた分類結果をクライアント装置２００やデータベース装置４００へ送信する。そして、クライアント装置２００は膵臓癌評価装置１００から送信された分類結果を受信して表示し、データベース装置４００は膵臓癌評価装置１００から送信された分類結果を受信して格納する。

これにより、膵臓癌に罹患している可能性の程度を知る上で参考となり得る信頼性の高い情報を、理解し易い形で提供することができる。また、膵臓癌に罹患している可能性の程度だけでなく膵臓癌以外の癌に罹患している可能性の程度も知る上で参考となり得る信頼性の高い情報を、理解し易い形で提供することができる。

また、膵臓癌に罹患している可能性が高いか低いかを知る上で参考となり得る信頼性の高い情報を、理解し易い形で提供することができる。

また、膵臓癌に罹患している可能性が高いか、それとも健常である可能性が高いかを知る上で参考となり得る信頼性の高い情報を、理解し易い形で提供することができる。

また、膵臓癌に罹患している可能性が高いか、それとも膵臓癌以外の癌に罹患している可能性が高いかを知る上で参考となり得る信頼性の高い情報を、理解し易い形で提供することができる。

また、膵臓癌に罹患している可能性が高いか、それとも健常である又は膵臓癌以外の癌に罹患している可能性が高いかを知る上で参考となり得る信頼性の高い情報を、理解し易い形で提供することができる。

また、膵臓癌に罹患している可能性が高いか、健常である可能性が高いか、それとも膵臓癌以外の癌に罹患している可能性が高いかを知る上で参考と

なり得る信頼性の高い情報を、理解し易い形で提供することができる。

[0222] これにて、膵臓癌評価サービス処理の説明を終了する。

[0223] なお、本説明では、膵臓癌評価装置１００が、アミノ酸濃度データの受信から、評価式の値の算出、個体の区分への分類、そして分類結果の送信までを実行し、クライアント装置２００が分類結果の受信を実行するケースを例として挙げたが、クライアント装置２００に評価部２１０ａが備えられている場合は、膵臓癌評価装置１００は評価式の値の算出を実行すれば十分であり、例えば評価式の値の変換、位置情報の生成、及び、個体の区分への分類などは、膵臓癌評価装置１００とクライアント装置２００とで適宜分担して実行してもよい。

例えば、クライアント装置２００は、膵臓癌評価装置１００から式の値を受信した場合には、評価部２１０ａは、変換部２１０ａ２で式の値を変換したり、生成部２１０ａ３で式の値又は変換後の値に対応する位置情報を生成したり、分類部２１０ａ４で式の値又は変換後の値を用いて個体を複数の区分のうちのどれか１つに分類したりしてもよい。

また、クライアント装置２００は、膵臓癌評価装置１００から変換後の値を受信した場合には、評価部２１０ａは、生成部２１０ａ３で変換後の値に対応する位置情報を生成したり、分類部２１０ａ４で変換後の値を用いて個体を複数の区分のうちのどれか１つに分類したりしてもよい。

また、クライアント装置２００は、膵臓癌評価装置１００から式の値又は変換後の値と位置情報とを受信した場合には、評価部２１０ａは、分類部２１０ａ４で式の値又は変換後の値を用いて個体を複数の区分のうちのどれか１つに分類してもよい。

[0224] ［２－４．他の実施形態］

本発明にかかる膵臓癌評価装置、膵臓癌評価方法、膵臓癌評価プログラム、膵臓癌評価システム、および情報通信端末装置は、上述した第２実施形態以外にも、特許請求の範囲に記載した技術的思想の範囲内において種々の異なる実施形態にて実施されてよいものである。

[0225] また、第２実施形態において説明した各処理のうち、自動的に行われるものとして説明した処理の全部または一部を手動的に行うこともでき、あるいは、手動的に行われるものとして説明した処理の全部または一部を公知の方法で自動的に行うこともできる。

[0226] このほか、上記文献中や図面中で示した処理手順、制御手順、具体的名称、各処理の登録データや検索条件等のパラメータを含む情報、画面例、データベース構成については、特記する場合を除いて任意に変更することができる。

[0227] また、膵臓癌評価装置１００に関して、図示の各構成要素は機能概念的なものであり、必ずしも物理的に図示の如く構成されていることを要しない。

[0228] 例えば、膵臓癌評価装置１００が備える処理機能、特に制御部１０２にて行われる各処理機能については、その全部または任意の一部を、ＣＰＵ（Ｃｅｎｔｒａｌ　Ｐｒｏｃｅｓｓｉｎｇ　Ｕｎｉｔ）および当該ＣＰＵにて解釈実行されるプログラムにて実現してもよく、また、ワイヤードロジックによるハードウェアとして実現してもよい。尚、プログラムは、情報処理装置に本発明にかかる膵臓癌評価方法を実行させるためのプログラム化された命令を含む一時的でないコンピュータ読み取り可能な記録媒体に記録されており、必要に応じて膵臓癌評価装置１００に機械的に読み取られる。すなわち、ＲＯＭまたはＨＤＤなどの記憶部１０６などには、ＯＳ（Ｏｐｅｒａｔｉｎｇ　Ｓｙｓｔｅｍ）と協働してＣＰＵに命令を与え、各種処理を行うためのコンピュータプログラムが記録されている。このコンピュータプログラムは、ＲＡＭにロードされることによって実行され、ＣＰＵと協働して制御部を構成する。

[0229] また、このコンピュータプログラムは、膵臓癌評価装置１００に対して任意のネットワークを介して接続されたアプリケーションプログラムサーバに記憶されていてもよく、必要に応じてその全部または一部をダウンロードすることも可能である。

[0230] また、本発明にかかる膵臓癌評価プログラムを、一時的でないコンピュー

タ読み取り可能な記録媒体に格納してもよく、また、プログラム製品として構成することもできる。ここで、この「記録媒体」とは、メモリーカード、ＵＳＢメモリ、ＳＤカード、フレキシブルディスク、光磁気ディスク、ＲＯＭ、ＥＰＲＯＭ、ＥＥＰＲＯＭ、ＣＤ－ＲＯＭ、ＭＯ、ＤＶＤ、および、Ｂｌｕ－ｒａｙ　Ｄｉｓｃ等の任意の「可搬用の物理媒体」を含むものとする。

[0231] また、「プログラム」とは、任意の言語または記述方法にて記述されたデータ処理方法であり、ソースコードまたはバイナリコード等の形式を問わない。なお、「プログラム」は必ずしも単一的に構成されるものに限られず、複数のモジュールやライブラリとして分散構成されるものや、ＯＳ（Ｏｐｅｒａｔｉｎｇ　Ｓｙｓｔｅｍ）に代表される別個のプログラムと協働してその機能を達成するものをも含む。なお、実施形態に示した各装置において記録媒体を読み取るための具体的な構成および読み取り手順ならびに読み取り後のインストール手順等については、周知の構成や手順を用いることができる。

[0232] 記憶部１０６に格納される各種のデータベース等は、ＲＡＭ、ＲＯＭ等のメモリ装置、ハードディスク等の固定ディスク装置、フレキシブルディスク、および、光ディスク等のストレージ手段であり、各種処理やウェブサイト提供に用いる各種のプログラム、テーブル、データベース、および、ウェブページ用ファイル等を格納する。

[0233] また、膵臓癌評価装置１００は、既知のパーソナルコンピュータまたはワークステーション等の情報処理装置として構成してもよく、また、任意の周辺装置が接続された当該情報処理装置として構成してもよい。また、膵臓癌評価装置１００は、当該情報処理装置に本発明の膵臓癌評価方法を実現させるソフトウェア（プログラムまたはデータ等を含む）を実装することにより実現してもよい。

[0234] 更に、装置の分散・統合の具体的形態は図示するものに限られず、その全部または一部を、各種の付加等に応じてまたは機能負荷に応じて、任意の単

位で機能的または物理的に分散・統合して構成することができる。すなわち、上述した実施形態を任意に組み合わせて実施してもよく、実施形態を選択的に実施してもよい。

[0235] 最後に、膵臓癌評価装置１００で行う評価式作成処理の一例について図２１を参照して詳細に説明する。なお、ここで説明する処理はあくまでも一例であり、評価式の作成方法はこれに限定されない。図２１は評価式作成処理の一例を示すフローチャートである。なお、当該評価式作成処理は、膵臓癌状態情報を管理するデータベース装置４００で行ってもよい。

[0236] なお、本説明では、膵臓癌評価装置１００は、データベース装置４００から事前に取得した膵臓癌状態情報を、膵臓癌状態情報ファイル１０６ｃの所定の記憶領域に格納しているものとする。また、膵臓癌評価装置１００は、膵臓癌状態情報指定部１０２ｇで事前に指定した膵臓癌状態指標データおよびアミノ酸濃度データ（前記１９種のアミノ酸の濃度値を含むもの）を含む膵臓癌状態情報を、指定膵臓癌状態情報ファイル１０６ｄの所定の記憶領域に格納しているものとする。

[0237] まず、評価式作成部１０２ｈは、候補式作成部１０２ｈ１で、指定膵臓癌状態情報ファイル１０６ｄの所定の記憶領域に格納されている膵臓癌状態情報から所定の式作成手法に基づいて候補式を作成し、作成した候補式を候補式ファイル１０６ｅ１の所定の記憶領域に格納する（ステップＳＢ２１）。具体的には、まず、評価式作成部１０２ｈは、候補式作成部１０２ｈ１で、複数の異なる式作成手法（主成分分析や判別分析、サポートベクターマシン、重回帰分析、ロジスティック回帰分析、ｋ－ｍｅａｎｓ法、クラスター解析、決定木などの多変量解析に関するものを含む。）の中から所望のものを１つ選択し、選択した式作成手法に基づいて、作成する候補式の形（式の形）を決定する。つぎに、評価式作成部１０２ｈは、候補式作成部１０２ｈ１で、膵臓癌状態情報に基づいて、選択した式選択手法に対応する種々（例えば平均や分散など）の計算を実行する。つぎに、評価式作成部１０２ｈは、候補式作成部１０２ｈ１で、計算結果および決定した候補式のパラメータを

決定する。これにより、選択した式作成手法に基づいて候補式が作成される。なお、複数の異なる式作成手法を併用して候補式を同時並行（並列）的に作成する場合は、選択した式作成手法ごとに上記の処理を並行して実行すればよい。また、複数の異なる式作成手法を併用して候補式を直列的に作成する場合は、例えば、主成分分析を行って作成した候補式を利用して膵臓癌状態情報を変換し、変換した膵臓癌状態情報に対して判別分析を行うことで候補式を作成してもよい。

[0238] つぎに、評価式作成部１０２ｈは、候補式検証部１０２ｈ２で、ステップＳＢ２１で作成した候補式を所定の検証手法に基づいて検証（相互検証）し、検証結果を検証結果ファイル１０６ｅ２の所定の記憶領域に格納する（ステップＳＢ２２）。具体的には、評価式作成部１０２ｈは、候補式検証部１０２ｈ２で、指定膵臓癌状態情報ファイル１０６ｄの所定の記憶領域に格納されている膵臓癌状態情報に基づいて候補式を検証する際に用いる検証用データを作成し、作成した検証用データに基づいて候補式を検証する。なお、ステップＳＢ２１で複数の異なる式作成手法を併用して候補式を複数作成した場合には、評価式作成部１０２ｈは、候補式検証部１０２ｈ２で、各式作成手法に対応する候補式ごとに所定の検証手法に基づいて検証する。ここで、ステップＳＢ２２において、ブートストラップ法やホールドアウト法、Ｎ－フォールド法、リーブワンアウト法などのうち少なくとも１つに基づいて候補式の判別率や感度、特異度、情報量基準、ＲＯＣ＿ＡＵＣ（受信者特性曲線の曲線下面積）などのうち少なくとも１つに関して検証してもよい。これにより、膵臓癌状態情報や評価条件を考慮した予測性または頑健性の高い候補式を選択することができる。

[0239] つぎに、評価式作成部１０２ｈは、変数選択部１０２ｈ３で、所定の変数選択手法に基づいて、候補式の変数を選択することで、候補式を作成する際に用いる膵臓癌状態情報に含まれるアミノ酸濃度データの組み合わせを選択し、選択したアミノ酸濃度データの組み合わせを含む膵臓癌状態情報を選択膵臓癌状態情報ファイル１０６ｅ３の所定の記憶領域に格納する（ステップ

ＳＢ２３）。なお、ステップＳＢ２１で複数の異なる式作成手法を併用して候補式を複数作成し、ステップＳＢ２２で各式作成手法に対応する候補式ごとに所定の検証手法に基づいて検証した場合には、ステップＳＢ２３において、評価式作成部１０２ｈは、変数選択部１０２ｈ３で、候補式ごとに所定の変数選択手法に基づいて候補式の変数を選択してもよい。ここで、ステップＳＢ２３において、検証結果からステップワイズ法、ベストパス法、近傍探索法、遺伝的アルゴリズムのうち少なくとも１つに基づいて候補式の変数を選択してもよい。なお、ベストパス法とは、候補式に含まれる変数を１つずつ順次減らしていき、候補式が与える評価指標を最適化することで変数を選択する方法である。また、ステップＳＢ２３において、評価式作成部１０２ｈは、変数選択部１０２ｈ３で、指定膵臓癌状態情報ファイル１０６ｄの所定の記憶領域に格納されている膵臓癌状態情報に基づいてアミノ酸濃度データの組み合わせを選択してもよい。

[0240] つぎに、評価式作成部１０２ｈは、指定膵臓癌状態情報ファイル１０６ｄの所定の記憶領域に格納されている膵臓癌状態情報に含まれるアミノ酸濃度データの全ての組み合わせが終了したか否かを判定し、判定結果が「終了」であった場合（ステップＳＢ２４：Ｙｅｓ）には次のステップ（ステップＳＢ２５）へ進み、判定結果が「終了」でなかった場合（ステップＳＢ２４：Ｎｏ）にはステップＳＢ２１へ戻る。なお、評価式作成部１０２ｈは、予め設定した回数が終了したか否かを判定し、判定結果が「終了」であった場合には（ステップＳＢ２４：Ｙｅｓ）次のステップ（ステップＳＢ２５）へ進み、判定結果が「終了」でなかった場合（ステップＳＢ２４：Ｎｏ）にはステップＳＢ２１へ戻ってもよい。また、評価式作成部１０２ｈは、ステップＳＢ２３で選択したアミノ酸濃度データの組み合わせが、指定膵臓癌状態情報ファイル１０６ｄの所定の記憶領域に格納されている膵臓癌状態情報に含まれるアミノ酸濃度データの組み合わせまたは前回のステップＳＢ２３で選択したアミノ酸濃度データの組み合わせと同じであるか否かを判定し、判定結果が「同じ」であった場合（ステップＳＢ２４：Ｙｅｓ）には次のステッ

プ（ステップＳＢ２５）へ進み、判定結果が「同じ」でなかった場合（ステップＳＢ２４：Ｎｏ）にはステップＳＢ２１へ戻ってもよい。また、評価式作成部１０２ｈは、検証結果が具体的には各候補式に関する評価値である場合には、当該評価値と各式作成手法に対応する所定の閾値との比較結果に基づいて、ステップＳＢ２５へ進むかステップＳＢ２１へ戻るかを判定してもよい。

[0241] つぎに、評価式作成部１０２ｈは、検証結果に基づいて、複数の候補式の中から評価式として採用する候補式を選出することで評価式を決定し、決定した評価式（選出した候補式）を評価式ファイル１０６ｅ４の所定の記憶領域に格納する（ステップＳＢ２５）。ここで、ステップＳＢ２５において、例えば、同じ式作成手法で作成した候補式の中から最適なものを選出する場合と、すべての候補式の中から最適なものを選出する場合とがある。

[0242] これにて、評価式作成処理の説明を終了する。

実施例 1

[0243] 本実施例１および以後の実施例においては、以下の各群の血液サンプルから前述のアミノ酸分析法を用いて測定された血漿中のアミノ酸濃度値(ｎｍｏｌ／ｍｌ)のデータを用いた。膵臓癌の確定診断が行われた膵臓癌患者（５１名）を膵臓癌群とする。癌の既往歴、罹患歴がない健常者を健常群（２５５名）とする。肺癌、大腸癌、前立腺癌、乳癌の確定診断が行われた癌患者をそれぞれ肺癌群（３２０名）、大腸癌群（２５２名）、前立腺癌群（８７名）、乳癌群（１２１名）とし、これらの４群を合わせて他癌群（７８０名）とする。

[0244] 各アミノ酸について膵臓癌群と健常群の判別能をＲＯＣ＿ＡＵＣ（受信者特性曲線の曲線下面積）で評価した。ノンパラメトリックの仮定のもとで帰無仮説を「ＲＯＣ＿ＡＵＣ＝０．５」とした場合の検定でＲＯＣ＿ＡＵＣが有意（ｐ＜０．０５）であったアミノ酸は、Ａｓｎ，Ｈｉｓ，Ｔｈｒ，Ａｌａ，Ｃｉｔ，Ａｒｇ，Ｔｙｒ，Ｖａｌ，Ｍｅｔ，Ｌｙｓ，Ｔｒｐであった。これらのアミノ酸は膵臓癌群で有意に減少した。これらのアミノ酸の濃度値

は、ＲＯＣ＿ＡＵＣが有意であることから、健常の状態を考慮した、膵臓癌の状態の評価において有用なものであると考えられる。

実施例 2

[0245] 実施例１で用いたサンプルデータを用いた。血漿中のアミノ酸濃度値が代入される変数を含む、膵臓癌群と健常群との２群を判別するための多変量判別式（多変量関数）を求めた。また、得られた多変量判別式について、膵臓癌群と他癌群、膵臓癌群と肺癌群、膵臓癌群と大腸癌群、膵臓癌群と前立腺癌群、膵臓癌群と乳癌群の判別能についても示した。

[0246] まず、多変量判別式としてロジスティック回帰式を用いた。ロジスティック回帰式に含める６個以下の変数の組み合わせを１９種類のアミノ酸（具体的には、Ａｓｎ，Ｈｉｓ，Ｔｈｒ，Ａｌａ，Ｃｉｔ，Ａｒｇ，Ｔｙｒ，Ｖａｌ，Ｍｅｔ，Ｌｙｓ，Ｔｒｐ，Ｇｌｙ，Ｐｒｏ，Ｏｒｎ，Ｉｌｅ，Ｌｅｕ，Ｐｈｅ，Ｓｅｒ，ＧＩｎ）から探索し、そしてバリデーションとしてＬｅａｖｅ－Ｏｎｅ－Ｏｕｔ法を採用して、膵臓癌群と健常群の判別能が良好なロジスティック回帰式の探索を鋭意実施した。

[0247] バリデーション有りでの膵臓癌群と健常群のＲＯＣ＿ＡＵＣ値が０．５００以上で、変数の個数が２個のロジスティック回帰式の一覧、バリデーション有りでの膵臓癌群と健常群のＲＯＣ＿ＡＵＣ値が０．５００以上で、変数の個数が３個のロジスティック回帰式の一覧、バリデーション有りでの膵臓癌群と健常群のＲＯＣ＿ＡＵＣ値が０．５００以上で、変数の個数が４個のロジスティック回帰式の一覧、バリデーション有りでの膵臓癌群と健常群のＲＯＣ＿ＡＵＣ値が０．５００以上で、変数の個数が５個のロジスティック回帰式の一覧、および、バリデーション有りでの膵臓癌群と健常群のＲＯＣ＿ＡＵＣ値が０．５００以上で、変数の個数が６個のロジスティック回帰式の一覧を、後述する［実施例２で探索されたロジスティック回帰式の一覧（ＲＯＣ＿ＡＵＣ値：０．５００以上）］に示す。これらのロジスティック回帰式は、ＲＯＣ＿ＡＵＣ値が高いことから、前記の評価において有用なものであると考えられる。

[0248] また、バリデーション有りでの膵臓癌群と健常群のＲＯＣ＿ＡＵＣ値が０．７５０以上であるロジスティック回帰式を、後述する［実施例２で探索されたロジスティック回帰式の一覧（その１）］に示す。これらのロジスティック回帰式は、ＲＯＣ＿ＡＵＣ値が非常に高いことから、前記の評価において有用なものであると考えられる。なお、これらのロジスティック回帰式に含まれるアミノ酸変数の出現頻度を多い順に１０位まで列挙すると、Ｍｅｔ，Ｐｈｅ，Ｔｒｐ，Ｉｌｅ，Ｓｅｒ，Ｖａｌ，Ｈｉｓ，Ｔｈｒ，Ａｓｎ，Ａｌａである（下記表１を参照）。これらのアミノ酸は、前記の評価において有用であると考えられる式に含まれる変数であることから、式と同様、前記の評価において有用なものであると考えられる。また、これらのロジスティック回帰式については、膵臓癌群と肺癌群、膵臓癌群と大腸癌群、膵臓癌群と前立腺癌群、膵臓癌群と乳癌群の各ＲＯＣ＿ＡＵＣ値の平均値が０．７７５以上であり、膵臓癌群と他の各種癌群の判別能も良好であった。これらのロジスティック回帰式は、ＲＯＣ＿ＡＵＣ値が非常に高いことから、膵臓癌以外の癌の状態もさらに考慮した、膵臓癌の状態の評価において有用なものであると考えられる。また、これらのロジスティック回帰式のうち、例えば、変数の組「Ｓｅｒ，Ｖａｌ，Ｍｅｔ，Ｉｌｅ，Ｐｈｅ，Ｔｒｐ」を持つ指標式１「（－１．３２１７）＋（０．０５４５）Ｓｅｒ＋（－０．０５４４）Ｖａｌ＋（－０．３９７３）Ｍｅｔ＋（０．１９２２）Ｉｌｅ＋（０．１５０６）Ｐｈｅ＋（－０．１１７９）Ｔｒｐ」（Ｓｅｒ，Ｖａｌ，Ｍｅｔ，Ｉｌｅ，Ｐｈｅ，Ｔｒｐを変数として含む多変量判別式）の判別能は、ＲＯＣ＿ＡＵＣ（Ｖａｌｉｄａｔｉｏｎ）＝０．９０２，ＲＯＣ＿ＡＵＣ（Ｎｏ Ｖａｌｉｄａｔｉｏｎ）＝０．９２３，感度＝０．９０２，特異度＝０．８０４と良好なものであった。なお、上記感度及び特異度は、感度と特異度の平均が最も高くなる最高判別点をカットオフ値とした場合の値である。

[0249]

[表1]

【表１】

アミノ酸	膵臓癌群 vs 健常群				
	単変量	ロジスティック回帰式		線形判別式	
		健常群	他癌平均	健常群	他癌平均
Ser		66		70	
Asn	○	13	75	23	79
Gly					
Gln			100		98
His	○	45	24	46	28
Thr	○	38		38	
Ala	○	11	36		33
Cit	○		52	10	58
Arg	○				
Pro					
Tyr	○		23		
Val	○	54	23	47	28
Met	○	90	46	81	38
Orn					
Lys	○				17
Ile		66		61	17
Leu					
Phe		79	48	90	45
Trp	○	75	100	71	100

（○は、有意に変動したアミノ酸を示す。数字は、アミノ酸変数の出現頻度を示す。）

[0250] ここで、指標式１及び、膵臓癌群のアミノ酸濃度値（μｍｏｌ／Ｌ）を用いて、式の値を算出し、そして、算出した式の値及び予め設定したカットオフ値を用いて、膵臓癌群の各症例を、以下に示す通り設定した複数の区分のうちのどれか１つに分類した。ここで、カットオフ値の候補として、特異度８０％のときの式の値と特異度９５％のときの式の値を求めたところ、それぞれ－２．００２と－０．５２８であった。なお、これらをカットオフ値とした場合の感度はそれぞれ８６％、７１％である。

式の値が最も高かった１症例のアミノ酸濃度値はそれぞれ、Ｓｅｒ：１６６．３、Ｖａｌ：１４９．９、Ｍｅｔ：１８．５、Ｉｌｅ：６９．０、Ｐｈｅ：４４．１、Ｔｒｐ：３３．６であり、この症例の式の値は８．２であった。ここで、「対数オッズｌｎ（ｐ／（１－ｐ））＝式の値」という関係式（ｐは癌である確率）を定義して、この式の値８．２からオッズｐ／（１－ｐ）を計算したところ、３５０８．０であった。さらに、このオッズから確

率ｐを計算したところ、１．０であった。

そして、カットオフ値として特異度９５％のときの式の値－０．５２８を設定し、そして、式の値がカットオフ値より高い場合は陽性（膵臓癌区分に相当）でカットオフ値より低い場合は陰性（健常区分に相当）と定義して、式の値が８．２であった前記症例を陽性及び陰性のどちらかに分類したところ、この式の値はカットオフ値より高いため、この症例は陽性に分類された。

また、第一のカットオフ値として特異度８０％のときの式の値－２．００２を設定し、第二のカットオフ値として特異度９５％のときの式の値－０．５２８を設定し、そして、式の値が第一のカットオフ値より低い場合はランクＡ（膵臓癌である可能性（確率、リスク）が低いことを意味する区分）で、第一のカットオフ値より高く第二のカットオフ値より低い場合はランクＢ（膵臓癌である可能性が中程度であることを意味する区分）で、第二のカットオフ値より高い場合はランクＣ（膵臓癌である可能性が高いことを意味する区分）と定義して、式の値が８．２であった前記症例を３つのランクのうちのどれか１つに分類したところ、この式の値は第二のカットオフ値より高いため、この症例はランクＣに分類された。

[0251] つぎに、多変量判別式として線形判別式を用いた。線形判別式に含める６個以下の変数の組み合わせを上記１９種類のアミノ酸から探索し、そしてバリデーションとしてブートストラップ法を採用して、膵臓癌群と健常群の判別能が良好な線形判別式の探索を鋭意実施した。

[0252] バリデーション有りでの膵臓癌群と健常群のＲＯＣ＿ＡＵＣ値が０．７５０以上である線形判別式の一覧を、後述する［実施例２で探索された線形判別式の一覧（その１）］に示す。これらの線形判別式は、ＲＯＣ＿ＡＵＣ値が非常に高いことから、健常の状態を考慮した、膵臓癌の状態の評価において有用なものであると考えられる。なお、これらの線形判別式に含まれるアミノ酸変数の出現頻度を多い順に１０位まで列挙すると、Ｐｈｅ，Ｍｅｔ，Ｔｒｐ，Ｓｅｒ，Ｉｌｅ，Ｖａｌ，Ｈｉｓ，Ｔｈｒ，Ａｓｎ，Ｃｉｔである

（上記表１を参照）。これらのアミノ酸の濃度値は、前記の評価において有用であると考えられる式に含まれる変数であることから、式と同様、前記の評価において有用なものであると考えられる。また、これらの線形判別式については、膵臓癌群と肺癌群、膵臓癌群と大腸癌群、膵臓癌群と前立腺癌群、膵臓癌群と乳癌群の各ＲＯＣ＿ＡＵＣ値の平均値が０．７６２以上であり、膵臓癌群と他の各種癌群の判別能も良好であった。これらの線形判別式は、ＲＯＣ＿ＡＵＣ値が非常に高いことから、膵臓癌以外の癌の状態もさらに考慮した、膵臓癌の状態の評価において有用なものであると考えられる。また、これらの線形判別式のうち、例えば、変数の組「Ｓｅｒ，Ｖａｌ，Ｍｅｔ，Ｉｌｅ，Ｐｈｅ，Ｔｒｐ」を持つ指標式２「（－１．０２０７）＋（０．０５６４）Ｓｅｒ＋（－０．０４１０）Ｖａｌ＋（－０．４１４４）Ｍｅｔ＋（０．１４０７）Ｉｌｅ＋（０．１７８６）Ｐｈｅ＋（－０．１１５４）Ｔｒｐ」（Ｓｅｒ，Ｖａｌ，Ｍｅｔ，Ｉｌｅ，Ｐｈｅ，Ｔｒｐを変数として含む多変量判別式）の判別能は、ＲＯＣ＿ＡＵＣ（Ｖａｌｉｄａｔｉｏｎ）＝０．９１２，ＲＯＣ＿ＡＵＣ（Ｎｏ　Ｖａｌｉｄａｔｉｏｎ）＝０．９２６，感度＝０．８００，特異度＝０．９０２と良好なものであった。なお、上記感度及び特異度は、感度と特異度の平均が最も高くなる最高判別点をカットオフ値とした場合の値である。

[0253] ここで、指標式２及び、膵臓癌群のアミノ酸濃度値（μｍｏｌ／Ｌ）を用いて、式の値を算出し、そして、算出した式の値及び予め設定したカットオフ値を用いて、膵臓癌群の各症例を以下に示す通り設定した複数の区分のうちのどれか１つに分類した。ここで、カットオフ値の候補として、特異度８０％のときの式の値と特異度９５％のときの式の値を求めたところ、それぞれ－０．４３４と１．０９３であった。なお、これらをカットオフ値とした場合の感度はそれぞれ９０％、６９％である。

式の値が最も高かった１症例のアミノ酸濃度値はそれぞれ、Ｓｅｒ：１６６．３、Ｖａｌ：１４９．９、Ｍｅｔ：１８．５、Ｉｌｅ：６９．０、Ｐｈｅ：４４．１、Ｔｒｐ：３３．６であり、この症例の式の値は８．２であっ

た。

そして、カットオフ値として特異度９５％のときの式の値１．０９３を設定し、そして、式の値がカットオフ値より高い場合は陽性でカットオフ値より低い場合は陰性と定義して、式の値が８．２であった前記症例を陽性及び陰性のどちらかに分類したところ、この式の値はカットオフ値より高いため、この症例は陽性に分類された。

また、第一のカットオフ値として特異度８０％のときの式の値－０．４３４を設定し、第二のカットオフ値として特異度９５％のときの式の値１．０９３を設定し、そして、式の値が第一のカットオフ値より低い場合はランクＡで、第一のカットオフ値より高く第二のカットオフ値より低い場合はランクＢで、第二のカットオフ値より高い場合はランクＣと定義して、式の値が８．２であった前記症例を３つのランクのうちのどれか１つに分類したところ、この式の値は第二のカットオフ値より高いため、この症例はランクＣに分類された。

[0254] また、バリデーション有りでの膵臓癌群と健常群のＲＯＣ＿ＡＵＣ値が０．７５０以上で、かつ、膵臓癌群と他の各種癌群の判別能も良好なロジスティック回帰式の一覧を、後述する［実施例２で探索されたロジスティック回帰式の一覧（その２）］に示す。これらのロジスティック回帰式は、ＲＯＣ＿ＡＵＣ値が非常に高いことから、健常の状態と膵臓癌以外の癌の状態を両方考慮した、膵臓癌の状態の評価において有用なものであると考えられる。なお、これらのロジスティック回帰式に含まれるアミノ酸変数の出現頻度を多い順に１０位まで列挙すると、Ｔｒｐ，Ｇｌｎ，Ａｓｎ，Ｃｉｔ，Ｐｈｅ，Ｍｅｔ，Ａｌａ，Ｈｉｓ，Ｖａｌ，Ｔｙｒである（上記表１を参照）。これらのアミノ酸の濃度値は、前記の評価において有用であると考えられる式に含まれる変数であることから、式と同様、前記の評価において有用なものであると考えられる。また、これらのロジスティック回帰式のうち、例えば、変数の組「Ｇｌｎ，Ｈｉｓ，Ｃｉｔ，Ｍｅｔ，Ｐｈｅ，Ｔｒｐ」を持つ指標式３「（２．２５０８）＋（０．０１３５）Ｇｌｎ＋（－０．１１５６）

Ｈｉｓ＋（－０．０５４４）Ｃｉｔ＋（－０．１８２１）Ｍｅｔ＋（０．１５１８）Ｐｈｅ＋（－０．１１５１）Ｔｒｐ」（Ｇｌｎ，Ｈｉｓ，Ｃｉｔ，Ｍｅｔ，Ｐｈｅ，Ｔｒｐを変数として含む多変量判別式）の判別能は、ＲＯＣ＿ＡＵＣ（Ｖａｌｉｄａｔｉｏｎ）＝０．８６２，ＲＯＣ＿ＡＵＣ（Ｎｏ Ｖａｌｉｄａｔｉｏｎ）＝０．８９４，感度＝０．８３１，特異度＝０．８４３と良好なものであった。なお、上記感度及び特異度は、感度と特異度の平均が最も高くなる最高判別点をカットオフ値とした場合の値である。

[0255] ここで、指標式３及び、膵臓癌群のアミノ酸濃度値（μｍｏｌ／Ｌ）を用いて、式の値を算出し、そして、算出した式の値及び予め設定したカットオフ値を用いて、膵臓癌群の各症例を以下に示す通り設定した複数の区分のうちのどれか１つに分類した。ここで、カットオフ値の候補として、特異度８０％のときの式の値と特異度９５％のときの式の値を求めたところ、それぞれ－１．６５９と－０．２８８であった。なお、これらをカットオフ値とした場合の感度はそれぞれ８４％、５７％である。

式の値が最も高かった１症例のアミノ酸濃度値はそれぞれ、Ｇｌｎ：４８４．６、Ｈｉｓ：３２．４、Ｃｉｔ：１７．７、Ｍｅｔ：１８．４、Ｐｈｅ：５６．６、Ｔｒｐ：３０．４であり、この症例の式の値は５．８であった。ここで、この式の値５．８からオッズを計算したところ、３４１．５であった。さらに、このオッズから確率ｐを計算したところ、１．０であった。

そして、カットオフ値として特異度９５％のときの式の値－０．２８８を設定し、そして、式の値がカットオフ値より高い場合は陽性でカットオフ値より低い場合は陰性と定義して、式の値が５．８であった前記症例を陽性及び陰性のどちらかに分類したところ、この式の値はカットオフ値より高いため、この症例は陽性に分類された。

ここで、特異度８０％のときの式の値－１．６５９をカットオフ値として設定した場合と、特異度９５％のときの式の値－０．２８８をカットオフ値として設定した場合のそれぞれについて、他癌群のアミノ酸濃度値を用いて、各症例を陽性及び陰性のどちらかに分類したところ、他癌群に対する偽陽

性率はそれぞれ２４％、１０％であった。この値は、指標式１を用いた場合の、他癌群に対する偽陽性率４０％、２２％に対して低かったので、指標式３は、健常の状態と膵臓癌以外の癌の状態を両方考慮した、膵臓癌の状態の評価において有用なものである。

また、第一のカットオフ値として特異度８０％のときの式の値－１．６５９を設定し、第二のカットオフ値として特異度９５％のときの式の値－０．２８８を設定し、そして、式の値が第一のカットオフ値より低い場合はランクＡで、第一のカットオフ値より高く第二のカットオフ値より低い場合はランクＢで、第二のカットオフ値より高い場合はランクＣと定義して、式の値が５．８であった前記症例を３つのランクのうちのどれか１つに分類したところ、この式の値は第二のカットオフ値より高いため、この症例はランクＣに分類された。

[0256] また、バリデーション有りでの膵臓癌群と健常群のＲＯＣ＿ＡＵＣ値が０．７５０以上で、かつ、膵臓癌群と他の各種癌群の判別能も良好な線形判別式の一覧を、後述する［実施例２で探索された線形判別式の一覧（その２）］に示す。これらの線形判別式が、ＲＯＣ＿ＡＵＣ値が非常に高いことから、健常の状態と膵臓癌以外の癌の状態を両方考慮した、膵臓癌の状態の評価において有用なものであると考えられる。なお、これらの線形判別式に含まれるアミノ酸変数の出現頻度を多い順に１０位まで列挙すると、Ｔｒｐ，Ｇｌｎ，Ａｓｎ，Ｃｉｔ，Ｐｈｅ，Ｍｅｔ，Ａｌａ，Ｖａｌ，Ｈｉｓ，Ｉｌｅ，Ｌｙｓの１１個である（上記表１を参照）。これらのアミノ酸の濃度値は、前記の評価において有用であると考えられる式に含まれる変数であることから、式と同様、前記の評価において有用なものであると考えられる。また、これらの線形判別式のうち、例えば、変数の組「Ｇｌｎ，Ｈｉｓ，Ｃｉｔ，Ｍｅｔ，Ｐｈｅ，Ｔｒｐ」を持つ指標式４「（２．６７７３）＋（０．０１３１）Ｇｌｎ＋（－０．０８３３）Ｈｉｓ＋（－０．０３６９）Ｃｉｔ＋（－０．１９４２）Ｍｅｔ＋（０．１３２５）Ｐｈｅ＋（－０．１１８９）Ｔｒｐ」（Ｇｌｎ，Ｈｉｓ，Ｃｉｔ，Ｍｅｔ，Ｐｈｅ，Ｔｒｐを変数として

含む多変量判別式）の判別能は、ＲＯＣ＿ＡＵＣ（Ｖａｌｉｄａｔｉｏｎ）＝０．８７６，ＲＯＣ＿ＡＵＣ（Ｎｏ　Ｖａｌｉｄａｔｉｏｎ）＝０．８９７，感度＝０．８３１，特異度＝０．８０４と良好なものであった。なお、上記感度及び特異度は、感度と特異度の平均が最も高くなる最高判別点をカットオフ値とした場合の値である。

[0257] ここで、指標式４及び、膵臓癌群のアミノ酸濃度値（μｍｏｌ／Ｌ）を用いて、式の値を算出し、そして、算出した式の値及び予め設定したカットオフ値を用いて、膵臓癌群の各症例を以下に示す通り設定した複数の区分のうちのどれか１つに分類した。ここで、カットオフ値の候補として、特異度８０％のときの式の値と特異度９５％のときの式の値を求めたところ、それぞれ－０．０９２と１．１０３であった。なお、これらをカットオフ値とした場合の感度はそれぞれ８０％、５５％である。

式の値が最も高かった１症例のアミノ酸濃度値はそれぞれ、Ｇｌｎ：４８４．６、Ｈｉｓ：３２．４、Ｃｉｔ：１７．７、Ｍｅｔ：１８．４、Ｐｈｅ：５６．６、Ｔｒｐ：３０．４であり、この症例の式の値は６．０であった。

そして、カットオフ値として特異度９５％のときの式の値１．１０３を設定し、そして、式の値がカットオフ値より高い場合は陽性でカットオフ値より低い場合は陰性と定義して、式の値が６．０であった前記症例を陽性及び陰性のどちらかに分類したところ、この式の値はカットオフ値より高いため、この症例は陽性に分類された。

ここで、特異度８０％のときの式の値－０．０９２をカットオフ値として設定した場合と、特異度９５％のときの式の値１．１０３をカットオフ値として設定した場合のそれぞれについて、他癌群のアミノ酸濃度値を用いて、各症例を陽性及び陰性のどちらかに分類したところ、他癌群に対する偽陽性率はそれぞれ２３％、１０％であった。この値は、指標式２を用いた場合の、他癌群に対する偽陽性率４０％、２０％に対して低かったので、指標式４は、健常の状態と膵臓癌以外の癌の状態を両方考慮した、膵臓癌の状態の評

価において有用なものである。

また、第一のカットオフ値として特異度８０％のときの式の値－０．０９２を設定し、第二のカットオフ値としてと特異度９５％のときの式の値１．１０３を設定し、そして、式の値が第一のカットオフ値より低い場合はランクＡで、第一のカットオフ値より高く第二のカットオフ値より低い場合はランクＢで、第二のカットオフ値より高い場合はランクＣと定義して、式の値が６．０であった前記症例を３つのランクのうちのどれか１つに分類したところ、この式の値は第二のカットオフ値より高いため、この症例はランクＣに分類された。

実施例 3

[0258] 実施例１で用いたサンプルデータを用いた。各アミノ酸について膵臓癌群と他癌群の判別能をＲＯＣ＿ＡＵＣで評価した。ノンパラメトリックの仮定のもとで帰無仮説を「ＲＯＣ＿ＡＵＣ＝０．５」とした場合の検定でＲＯＣ＿ＡＵＣが有意（ｐ＜０．０５）であったアミノ酸は、Ａｓｎ，Ｇｌｙ，Ｈｉｓ，Ｔｈｒ，Ａｌａ，Ｃｉｔ，Ａｒｇ，Ｐｒｏ，Ｔｙｒ，Ｖａｌ，Ｍｅｔ，Ｏｒｎ，Ｌｙｓ，Ｉｌｅ，Ｌｅｕ，Ｐｈｅ，Ｔｒｐであった。これらのアミノ酸は膵臓癌群で有意に減少した。これらのアミノ酸の濃度値は、ＲＯＣ＿ＡＵＣが有意であることから、膵臓癌以外の癌の状態を考慮した、膵臓癌の状態の評価において有用なものであると考えられる。

[0259] 各アミノ酸について膵臓癌群と肺癌群の判別能をＲＯＣ＿ＡＵＣで評価した。ノンパラメトリックの仮定のもとで帰無仮説を「ＲＯＣ＿ＡＵＣ＝０．５」とした場合の検定でＲＯＣ＿ＡＵＣが有意（ｐ＜０．０５）であったアミノ酸は、Ｓｅｒ，Ａｓｎ，Ｇｌｙ，Ｈｉｓ，Ｔｈｒ，Ａｌａ，Ｃｉｔ，Ａｒｇ，Ｐｒｏ，Ｔｙｒ，Ｖａｌ，Ｍｅｔ，Ｏｒｎ，Ｌｙｓ，Ｉｌｅ，Ｌｅｕ，Ｐｈｅ，Ｔｒｐであった。これらのアミノ酸は膵臓癌群で有意に減少した。これらのアミノ酸の濃度値は、ＲＯＣ＿ＡＵＣが有意であることから、肺癌の状態を考慮した、膵臓癌の状態の評価において有用なものであると考えられる。

[0260] 各アミノ酸について膵臓癌群と大腸癌群の判別能をＲＯＣ＿ＡＵＣで評価した。ノンパラメトリックの仮定のもとで帰無仮説を「ＲＯＣ＿ＡＵＣ＝０．５」とした場合の検定でＲＯＣ＿ＡＵＣが有意（ｐ＜０．０５）であったアミノ酸は、Ａｓｎ，Ｇｌｙ，Ｇｌｎ，Ｈｉｓ，Ｔｈｒ，Ａｌａ，Ｃｉｔ，Ａｒｇ，Ｐｒｏ，Ｔｙｒ，Ｖａｌ，Ｍｅｔ，Ｌｙｓ，Ｉｌｅ，Ｌｅｕ，Ｐｈｅ，Ｔｒｐであった。これらのアミノ酸は膵臓癌群で有意に減少した。これらのアミノ酸の濃度値は、ＲＯＣ＿ＡＵＣが有意であることから、大腸癌の状態を考慮した、膵臓癌の状態の評価において有用なものであると考えられる。

[0261] 各アミノ酸について膵臓癌群と前立腺癌群の判別能をＲＯＣ＿ＡＵＣで評価した。ノンパラメトリックの仮定のもとで帰無仮説を「ＲＯＣ＿ＡＵＣ＝０．５」とした場合の検定でＲＯＣ＿ＡＵＣが有意（ｐ＜０．０５）であったアミノ酸は、Ａｓｎ，Ｈｉｓ，Ｔｈｒ，Ａｌａ，Ｃｉｔ，Ａｒｇ，Ｐｒｏ，Ｔｙｒ，Ｖａｌ，Ｍｅｔ，Ｌｙｓ，Ｌｅｕ，Ｐｈｅ，Ｔｒｐであった。これらのアミノ酸は膵臓癌群で有意に減少した。これらのアミノ酸の濃度値は、ＲＯＣ＿ＡＵＣが有意であることから、前立腺癌の状態を考慮した、膵臓癌の状態の評価において有用なものであると考えられる。

[0262] 各アミノ酸について膵臓癌群と乳癌群の判別能をＲＯＣ＿ＡＵＣで評価した。ノンパラメトリックの仮定のもとで帰無仮説を「ＲＯＣ＿ＡＵＣ＝０．５」とした場合の検定でＲＯＣ＿ＡＵＣが有意（ｐ＜０．０５）であったアミノ酸は、Ｓｅｒ，Ａｓｎ，Ｇｌｙ，Ｈｉｓ，Ｔｈｒ，Ａｌａ，Ｖａｌ，Ｍｅｔ，Ｌｙｓ，Ｉｌｅ，Ｔｒｐであった。これらのアミノ酸は膵臓癌群で有意に減少した。これらのアミノ酸の濃度値は、ＲＯＣ＿ＡＵＣが有意であることから、乳癌の状態を考慮した、膵臓癌の状態の評価において有用なものであると考えられる。

実施例 4

[0263] 実施例１で用いたサンプルデータを用いた。血漿中のアミノ酸濃度値が代入される変数を含む、膵臓癌群と他癌群との２群を判別するための多変量判

別式（多変量関数）を求めた。また、得られた多変量判別式について、膵臓癌群と健常群の判別能についても示した。

[0264] まず、多変量判別式としてロジスティック回帰式を用いた。ロジスティック回帰式に含める６個以下の変数の組み合わせを上記１９種類のアミノ酸から探索し、そしてバリデーションとしてＬｅａｖｅ－Ｏｎｅ－Ｏｕｔ法を採用して、膵臓癌群と他癌群の判別能が良好なロジスティック回帰式の探索を鋭意実施した。

[0265] バリデーション有りでの膵臓癌群と他癌群のＲＯＣ＿ＡＵＣ値が０．７５０以上であるロジスティック回帰式の一覧を、後述する［実施例４で探索されたロジスティック回帰式の一覧（その１）］に示す。これらのロジスティック回帰式は、ＲＯＣ＿ＡＵＣ値が非常に高いことから、膵臓癌以外の癌の状態を考慮した、膵臓癌の状態の評価において有用なものであると考えられる。なお、これらのロジスティック回帰式に含まれるアミノ酸変数の出現頻度を多い順に１０位まで列挙すると、Ｔｒｐ，Ｇｌｎ，Ａｓｎ，Ｃｉｔ，Ａｌａ，Ｐｈｅ，Ｇｌｙ，Ｖａｌ，Ｍｅｔ，Ｐｒｏである（下記表２を参照）。これらのアミノ酸は、前記の評価において有用であると考えられる式に含まれる変数であることから、式と同様、前記の評価において有用なものであると考えられる。また、これらのロジスティック回帰式については、膵臓癌群と健常群のＲＯＣ＿ＡＵＣ値が０．７６０以上であり、膵臓癌群と健常群の判別能も良好であった。これらのロジスティック回帰式は、ＲＯＣ＿ＡＵＣ値が非常に高いことから、健常の状態もさらに考慮した、膵臓癌の状態の評価において有用なものであると考えられる。また、これらのロジスティック回帰式のうち、例えば、変数の組「Ａｓｎ，Ｇｌｎ，Ａｌａ，Ｃｉｔ，Ｐｈｅ，Ｔｒｐ」を持つ指標式５「（１．７０７２）＋（－０．０９８５）Ａｓｎ＋（０．０１１５）Ｇｌｎ＋（－０．００６３）Ａｌａ＋（－０．０５８２）Ｃｉｔ＋（０．０２１２）Ｐｈｅ＋（－０．０７９２）　Ｔｒｐ」（Ａｓｎ，Ｇｌｎ，Ａｌａ，Ｃｉｔ，Ｐｈｅ，Ｔｒｐを変数として含む多変量判別式）の判別能は、ＲＯＣ＿ＡＵＣ（Ｖａｌｉｄａｔｉｏｎ）＝０．８５

４，ＲＯＣ＿ＡＵＣ（Ｎｏ　Ｖａｌｉｄａｔｉｏｎ）＝０．８７３，感度＝０．７４０，特異度＝０．８８２と良好なものであった。なお、上記感度及び特異度は、感度と特異度の平均が最も高くなる最高判別点をカットオフ値とした場合の値である。

[0266] [表2]

【表２】

アミノ酸	膵臓癌群 vs 他癌群				
	単変量	ロジスティック回帰式		線形判別式	
		他癌群	健常群	他癌群	健常群
Ser					47
Asn	○	95	20	97	31
Gly	○	32		41	
Gln		100	84	100	38
His	○		80		61
Thr	○				
Ala	○	39		41	
Cit	○	54	27	48	23
Arg	○				
Pro	○	18		18	
Tyr	○				
Val	○	29	26	27	20
Met	○	18	41	22	73
Orn	○				
Lys	○				
Ile	○		37		26
Leu	○		23		
Phe	○	37	78	36	99
Trp	○	100	100	100	99

（○は、有意に変動したアミノ酸を示す。数字は、アミノ酸変数の出現頻度を示す。）

[0267] ここで、指標式５及び、膵臓癌群のアミノ酸濃度値（μｍｏｌ／Ｌ）を用いて、式の値を算出し、そして、算出した式の値及び予め設定したカットオフ値を用いて、膵臓癌群の各症例を以下に示す通り設定した複数の区分のうちのどれか１つに分類した。ここで、カットオフ値の候補として、特異度８０％のときの式の値と特異度９５％のときの式の値を求めたところ、それぞれ－２．６５０と－１．３１６であった。なお、これらをカットオフ値とした場合の感度はそれぞれ７６％、３９％である。

式の値が最も高かった１症例のアミノ酸濃度値はそれぞれ、Ａｓｎ：３５．２、Ｇｌｎ：６９７．３、Ａｌａ：２４９．３、Ｃｉｔ：２６．０、Ｐｈ

ｅ：４４．１、Ｔｒｐ：３３．６であり、この症例の式の値は１．５であった。ここで、この式の値１．５からオッズを計算したところ、４．３であった。さらに、このオッズから確率ｐを計算したところ、０．８であった。

そして、カットオフ値として特異度９５％のときの式の値－１．３１６を設定し、そして、式の値がカットオフ値より高い場合は陽性（膵臓癌区分に相当）でカットオフ値より低い場合は陰性（他癌区分に相当）と定義して、式の値が１．５であった前記症例を陽性及び陰性のどちらかに分類したところ、この式の値はカットオフ値より高いため、この症例は陽性に分類された。

また、第一のカットオフ値として特異度８０％のときの式の値－２．６５０を設定し、第二のカットオフ値として特異度９５％のときの式の値－１．３１６を設定し、そして、式の値が第一のカットオフ値より低い場合はランクＡ（膵臓癌である可能性が低く且つ膵臓癌以外の癌である可能性が高いことを意味する区分）で、第一のカットオフ値より高く第二のカットオフ値より低い場合はランクＢ（膵臓癌である可能性も膵臓癌以外の癌である可能性も中程度であることを意味する区分）で、第二のカットオフ値より高い場合はランクＣ（膵臓癌である可能性が高く且つ膵臓癌以外の癌である可能性が低いことを意味する区分）と定義して、式の値が１．５であった前記症例を３つのランクのうちのどれか１つに分類したところ、この式の値は第二のカットオフ値より高いため、この症例はランクＣに分類された。

[0268] つぎに、多変量判別式として線形判別式を用いた。線形判別式に含める６個以下の変数の組み合わせを上記１９種類のアミノ酸から探索し、そしてバリデーションとしてブートストラップ法を採用して、膵臓癌群と他癌群の判別能が良好な線形判別式の探索を鋭意実施した。

[0269] バリデーション有りでの膵臓癌群と他癌群のＲＯＣ＿ＡＵＣ値が０．７５０以上である線形判別式の一覧を、後述する［実施例４で探索された線形判別式の一覧（その１）］に示す。これらの線形判別式は、ＲＯＣ＿ＡＵＣ値が非常に高いことから、膵臓癌以外の癌の状態を考慮した、膵臓癌の状態の

評価において有用なものであると考えられる。なお、これらの線形判別式に含まれるアミノ酸変数の出現頻度を多い順に１０位まで列挙すると、Ｔｒｐ，Ｇｌｎ，Ａｓｎ，Ｃｉｔ，Ｇｌｙ，Ａｌａ，Ｐｈｅ，Ｖａｌ，Ｍｅｔ，Ｐｒｏである（上記表２を参照）。これらのアミノ酸の濃度値は、前記の評価において有用であると考えられる式に含まれる変数であることから、式と同様、前記の評価において有用なものであると考えられる。また、これらの線形判別式については、膵臓癌群と健常群のＲＯＣ＿ＡＵＣ値が０．７８４以上であり、膵臓癌群と健常群の判別能も良好であった。これらの線形判別式は、ＲＯＣ＿ＡＵＣ値が非常に高いことから、健常の状態もさらに考慮した、膵臓癌の状態の評価において有用なものであると考えられる。また、これらの線形判別式のうち、例えば、変数の組「Ａｓｎ，Ｇｌｎ，Ａｌａ，Ｃｉｔ，Ｐｈｅ，Ｔｒｐ」を持つ指標式６「（５．４４６８）＋（－０．１１１１）Ａｓｎ＋（０．０１２２）Ｇｌｎ＋（－０．００８３）Ａｌａ＋（－０．０５２４）Ｃｉｔ＋（０．０３４５）Ｐｈｅ＋（－０．１０１５）Ｔｒｐ」（Ａｓｎ，Ｇｌｎ，Ａｌａ，Ｃｉｔ，Ｐｈｅ，Ｔｒｐを変数として含む多変量判別式）の判別能は、ＲＯＣ＿ＡＵＣ（Ｖａｌｉｄａｔｉｏｎ）＝０．８５９，ＲＯＣ＿ＡＵＣ（Ｎｏ　Ｖａｌｉｄａｔｉｏｎ）＝０．８７４，感度＝０．７４２，特異度＝０．９０２と良好なものであった。なお、上記感度及び特異度は、感度と特異度の平均が最も高くなる最高判別点をカットオフ値とした場合の値である。

[0270] ここで、指標式６及び、膵臓癌群のアミノ酸濃度値（μｍｏｌ／Ｌ）を用いて、式の値を算出し、そして、算出した式の値及び予め設定したカットオフ値を用いて、膵臓癌群の各症例を以下に示す通り設定した複数の区分のうちのどれか１つに分類した。ここで、カットオフ値の候補として、特異度８０％のときの式の値と特異度９５％のときの式の値を求めたところ、それぞれ０．１０９と１．７８０であった。なお、これらをカットオフ値とした場合の感度はそれぞれ７３％、３７％である。

式の値が最も高かった１症例のアミノ酸濃度値はそれぞれ、Ａｓｎ：３５

．２、Ｇｌｎ：６９７．３、Ａｌａ：２４９．３、Ｃｉｔ：２６．０、Ｐｈｅ：４４．１、Ｔｒｐ：３３．６であり、この症例の式の値は４．７であった。

そして、カットオフ値として特異度９５％のときの式の値１．７８０を設定し、そして、式の値がカットオフ値より高い場合は陽性でカットオフ値より低い場合は陰性と定義して、式の値が４．７であった前記症例を陽性及び陰性のどちらかに分類したところ、この式の値はカットオフ値より高いため、この症例は陽性に分類された。

また、第一のカットオフ値として特異度８０％のときの式の値０．１０９を設定し、第二のカットオフ値として特異度９５％のときの式の値１．７８０を設定し、そして、式の値が第一のカットオフ値より低い場合はランクＡで、第一のカットオフ値より高く第二のカットオフ値より低い場合はランクＢで、第二のカットオフ値より高い場合はランクＣと定義して、式の値が４．７であった前記症例を３つのランクのうちのどれか１つに分類したところ、この式の値は第二のカットオフ値より高いため、この症例はランクＣに分類された。

[0271] バリデーション有りでの膵臓癌群と他癌群のＲＯＣ＿ＡＵＣ値が０．７５０以上で、かつ、膵臓癌群と健常群の判別能も良好なロジスティック回帰式の一覧を、後述する［実施例４で探索されたロジスティック回帰式の一覧（その２）］に示す。これらのロジスティック回帰式は、ＲＯＣ＿ＡＵＣ値が非常に高いことから、健常の状態と膵臓癌以外の癌の状態を両方考慮した、膵臓癌の状態の評価において有用なものであると考えられる。なお、これらのロジスティック回帰式に含まれるアミノ酸変数の出現頻度を多い順に１０位まで列挙すると、Ｔｒｐ，Ｇｌｎ，Ｈｉｓ，Ｐｈｅ，Ｍｅｔ，Ｉｌｅ，Ｃｉｔ，Ｖａｌ，Ｌｅｕ，Ａｓｎである（上記表２を参照）。これらのアミノ酸の濃度値は、前記の評価において有用であると考えられる式に含まれる変数であることから、式と同様、前記の評価において有用なものであると考えられる。また、これらのロジスティック回帰式のうち、例えば、変数の組「

Ｇｌｎ，Ｈｉｓ，Ｍｅｔ，Ｉｌｅ，Ｐｈｅ，Ｔｒｐ」を持つ指標式７「（０．８８８３）＋（０．０１０１）Ｇｌｎ＋（－０．０４５３）Ｈｉｓ＋（－０．１９８３）Ｍｅｔ＋（０．００３２）Ｉｌｅ＋（０．０３０４）Ｐｈｅ＋（－０．０６４７）Ｔｒｐ」（Ｇｌｎ，Ｈｉｓ，Ｍｅｔ，Ｉｌｅ，Ｐｈｅ，Ｔｒｐを変数として含む多変量判別式）の判別能は、ＲＯＣ＿ＡＵＣ（Ｖａｌｉｄａｔｉｏｎ）＝０．８３２，ＲＯＣ＿ＡＵＣ（Ｎｏ　Ｖａｌｉｄａｔｉｏｎ）＝０．８５４，感度＝０．６９０，特異度＝０．９０２と良好なものであった。なお、上記感度及び特異度は、感度と特異度の平均が最も高くなる最高判別点をカットオフ値とした場合の値である。

[0272] ここで、指標式７及び、膵臓癌群のアミノ酸濃度値（μｍｏｌ／Ｌ）を用いて、式の値を算出し、そして、算出した式の値及び予め設定されたカットオフ値を用いて、膵臓癌群の各症例を以下に示す通り設定した複数の区分のうちのどれか１つに分類した。ここで、カットオフ値の候補として、特異度８０％のときの式の値と特異度９５％のときの式の値を求めたところ、それぞれ－２．６２６と－１．３０６であった。なお、これらをカットオフ値とした場合の感度はそれぞれ７５％、４３％である。

式の値が最も高かった１症例のアミノ酸濃度値はそれぞれ、Ｇｌｎ：６９７．３、Ｈｉｓ：５４．０、Ｍｅｔ：１８．５、Ｉｌｅ：６９．０、Ｐｈｅ：４４．１、Ｔｒｐ：３３．６であり、この症例の式の値は１．２であった。ここで、この式の値１．２からオッズを計算したところ、３．３であった。さらに、このオッズから確率ｐを計算したところ、０．８であった。

そして、カットオフ値として特異度９５％のときの式の値－１．３０６を設定し、そして、式の値がカットオフ値より高い場合は陽性でカットオフ値より低い場合は陰性と定義して、式の値が１．２であった前記症例を陽性及び陰性のどちらかに分類したところ、この式の値はカットオフ値より高いため、この症例は陽性に分類された。

ここで、特異度８０％のときの式の値－２．６２６をカットオフ値として設定した場合と、特異度９５％のときの式の値－１．３０６をカットオフ値と

して設定した場合のそれぞれについて、健常群のアミノ酸濃度値を用いて、各症例を陽性及び陰性のどちらかに分類したところ、健常群に対する偽陽性率はそれぞれ２２％、２％であった。この値は、指標式５を用いた場合の、健常群に対する偽陽性率２８％、５％に対して低かったので、指標式７は、健常の状態と膵臓癌以外の癌の状態を両方考慮した、膵臓癌の状態の評価において有用なものである。

また、第一のカットオフ値として特異度８０％のときの式の値－２．６２６を設定し、第二のカットオフ値として特異度９５％のときの式の値－１．３０６を設定し、そして、式の値が第一のカットオフ値より低い場合はランクＡで、第一のカットオフ値より高く第二のカットオフ値より低い場合はランクＢで、第二のカットオフ値より高い場合はランクＣと定義して、式の値が１．２であった前記症例を３つのランクのうちのどれか１つに分類したところ、この式の値は第二のカットオフ値より高いため、この症例はランクＣに分類された。

[0273] バリデーション有りでの膵臓癌群と他癌群のＲＯＣ＿ＡＵＣ値が０．７５０以上で、かつ、膵臓癌群と健常群の判別能も良好な線形判別式の一覧を、後述する［実施例４で探索された線形判別式の一覧（その２）］に示す。これらの線形判別式が、ＲＯＣ＿ＡＵＣ値が非常に高いことから、健常の状態と膵臓癌以外の癌の状態を両方考慮した、膵臓癌の状態の評価において有用なものであると考えられる。なお、これらの線形判別式に含まれるアミノ酸変数の出現頻度を多い順に１０位まで列挙すると、Ｔｒｐ，Ｐｈｅ，Ｍｅｔ，Ｈｉｓ，Ｓｅｒ，ＧＩｎ，Ａｓｎ，ＩＩｅ，Ｃｉｔ，ＶａＩである（上記表２を参照）。これらのアミノ酸の濃度値は、前記の評価において有用であると考えられる式に含まれる変数であることから、式と同様、前記の評価において有用なものであると考えられる。また、これらの線形判別式のうち、例えば、変数の組「Ｓｅｒ，ＶａＩ，Ｍｅｔ，ＩＩｅ，Ｐｈｅ，Ｔｒｐ」を持つ指標式８「（５．７３１３）＋（０．０１１４）Ｓｅｒ＋（－０．０２２６）ＶａＩ＋（－０．２２３２）Ｍｅｔ＋（０．０４８９）ＩＩｅ＋（０

．０６７６）Ｐｈｅ＋（－０．０７９５）Ｔｒｐ」（Ｓｅｒ，Ｖａｌ，Ｍｅｔ，Ｉｌｅ，Ｐｈｅ，Ｔｒｐを変数として含む多変量判別式）の判別能は、ＲＯＣ＿ＡＵＣ（Ｖａｌｉｄａｔｉｏｎ）＝０．８３３，ＲＯＣ＿ＡＵＣ（Ｎｏ　Ｖａｌｉｄａｔｉｏｎ）＝０．８４９，感度＝０．８３７，特異度＝０．７８４と良好なものであった。なお、上記感度及び特異度は、感度と特異度の平均が最も高くなる最高判別点をカットオフ値とした場合の値である。

[0274] ここで、指標式８及び、膵臓癌群のアミノ酸濃度値（μｍｏｌ／Ｌ）を用いて、式の値を算出し、そして、算出した式の値及び予め設定したカットオフ値を用いて、膵臓癌群の各症例を以下に示す通り設定した複数の区分のうちのどれか１つに分類した。ここで、カットオフ値の候補として、特異度８０％のときの式の値と特異度９５％のときの式の値を求めたところ、それぞれ０．０１９と１．７３９であった。なお、これらをカットオフ値とした場合の感度はそれぞれ７８％、３１％である。

式の値が最も高かった１症例のアミノ酸濃度はそれぞれ、Ｓｅｒ：１６６．３、Ｇｌｎ：６９７．３、Ａｓｎ：３５．２、Ｉｌｅ：６９．０、Ｃｉｔ：２６．０、Ｖａｌ：１４９．９であり、この症例の式の値は３．８であった。

そして、カットオフ値として特異度９５％のときの式の値１．７３９を設定し、そして、式の値がカットオフ値より高い場合は陽性でカットオフ値より低い場合は陰性と定義して、式の値が３．８であった前記症例を陽性及び陰性のどちらかに分類したところ、この式の値はカットオフ値より高いため、この症例は陽性に分類された。

ここで、特異度８０％のときの式の値０．０１９をカットオフ値として設定した場合と、特異度９５％のときの式の値１．７３９をカットオフ値として設定した場合のそれぞれについて、健常群のアミノ酸濃度値を用いて、各症例を陽性及び陰性のどちらかに分類したところ、健常群に対する偽陽性率はそれぞれ１７％、１％であった。この値は、指標式６を用いた場合の、健

常群に対する偽陽性率２８％、４％に対して低かったので、指標式８は、健常の状態と膵臓癌以外の癌の状態を両方考慮した、膵臓癌の状態の評価において有用なものである。

また、第一のカットオフ値として特異度８０％のときの式の値０．０１９を設定し、第二のカットオフ値として特異度９５％のときの式の値１．７３９を設定し、そして、式の値が第一のカットオフ値より低い場合はランクＡで、第一のカットオフ値より高く第二のカットオフ値より低い場合はランクＢで、第二のカットオフ値より高い場合はランクＣと定義して、式の値が３．８であった前記症例を３つのランクのうちのどれか１つに分類したところ、この式の値は第二のカットオフ値より高いため、この症例はランクＣに分類された。

実施例 5

[0275] 実施例１で用いたサンプルデータを用いた。血漿中のアミノ酸濃度値が代入される変数を含む、膵臓癌群と肺癌群との２群を判別するための多変量判別式（多変量関数）を求めた。

[0276] まず、多変量判別式としてロジスティック回帰式を用いた。ロジスティック回帰式に含める６個以下の変数の組み合わせを上記１９種類のアミノ酸から探索し、そしてバリデーションとしてＬｅａｖｅ－Ｏｎｅ－Ｏｕｔ法を採用して、膵臓癌群と肺癌群の判別能が良好なロジスティック回帰式の探索を鋭意実施した。

[0277] バリデーション有りでの膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣ値が０．７５０以上であるロジスティック回帰式の一覧を、後述する［実施例５で探索されたロジスティック回帰式の一覧（その１）］に示す。これらのロジスティック回帰式は、ＲＯＣ＿ＡＵＣ値が非常に高いことから、肺癌の状態を考慮した、膵臓癌の状態の評価において有用なものであると考えられる。なお、これらのロジスティック回帰式に含まれるアミノ酸変数の出現頻度を多い順に１０位まで列挙すると、Ｇｌｎ，Ａｓｎ，Ｔｒｐ，Ｖａｌ，Ａｌａ，Ｐｈｅ，Ｃｉｔ，Ａｒｇ，Ｐｒｏ，Ｌｅｕである（下記表３を参照）。これらの

アミノ酸は、前記の評価において有用であると考えられる式に含まれる変数であることから、式と同様、前記の評価において有用なものであると考えられる。また、これらのロジスティック回帰式については、膵臓癌群と健常群のＲＯＣ＿ＡＵＣ値が０．７２５以上であり、膵臓癌群と健常群の判別能も良好であった。これらのロジスティック回帰式は、ＲＯＣ＿ＡＵＣ値が非常に高いことから、健常の状態もさらに考慮した、膵臓癌の状態の評価において有用なものであると考えられる。また、これらのロジスティック回帰式のうち、例えば、変数の組「Ａｓｎ，Ｇｌｎ，Ｐｒｏ，Ｖａｌ，Ｐｈｅ，Ｔｒｐ」を持つ指標式９「（２．５０１７）＋（－０．１５４４）Ａｓｎ＋（０．０１４４）Ｇｌｎ＋（－０．０１３６）Ｐｒｏ＋（－０．０１７９）Ｖａｌ＋（０．０６４７）Ｐｈｅ＋（－０．０７５１）Ｔｒｐ」（Ａｓｎ，Ｇｌｎ，Ｐｒｏ，Ｖａｌ，Ｐｈｅ，Ｔｒｐを変数として含む多変量判別式）の判別能は、ＲＯＣ＿ＡＵＣ（Ｖａｌｉｄａｔｉｏｎ）＝０．８７９，ＲＯＣ＿ＡＵＣ（Ｎｏ　Ｖａｌｉｄａｔｉｏｎ）＝０．９０１，感度＝０．８３１，特異度＝０．９０２と良好なものであった。なお、上記感度及び特異度は、感度と特異度の平均が最も高くなる最高判別点をカットオフ値とした場合の値である。

[0278]

[表3]

【表３】

アミノ酸	膵臓癌群 vs 肺癌群				
	単変量	ロジスティック回帰式		線形判別式	
		肺癌群	健常群	肺癌群	健常群
Ser	○		44		66
Asn	○	97	40	92	40
Gly	○				
Gln		100	43	100	32
His	○		35		38
Thr	○				
Ala	○	46		50	
Cit	○	23	42	18	29
Arg	○	22	12		
Pro	○	21		25	
Tyr	○				14
Val	○	67		65	
Met	○		66	19	73
Orn	○				
Lys	○		16		15
Ile	○		12		
Leu	○	15		22	
Phe	○	31	98	28	98
Trp	○	96	100	98	100

（○は、有意に変動したアミノ酸を示す。数字は、アミノ酸変数の出現頻度を示す。）

[0279] ここで、指標式９を用いて、実施例４と同様に式の値を算出することができ、また、算出された式の値及び予め設定されたカットオフ値を用いて、実施例４と同様に各症例を分類することができる。

[0280] つぎに、多変量判別式として線形判別式を用いた。線形判別式に含める６個以下の変数の組み合わせを上記１９種類のアミノ酸から探索し、そしてバリデーションとしてブートストラップ法を採用して、膵臓癌群と肺癌群の判別能が良好な線形判別式の探索を鋭意実施した。

[0281] バリデーション有りでの膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣ値が０．７５０以上である線形判別式の一覧を、後述する［実施例５で探索された線形判別式の一覧（その１）］に示す。これらの線形判別式は、ＲＯＣ＿ＡＵＣ値が非常に高いことから、肺癌の状態を考慮した、膵臓癌の状態の評価において有用なものであると考えられる。なお、これらの線形判別式に含まれるアミノ酸変数の出現頻度を多い順に１０位まで列挙すると、Ｇｌｎ，Ｔｒｐ，

Ａｓｎ，Ｖａｌ，Ａｌａ，Ｐｈｅ，Ｐｒｏ，Ｌｅｕ，Ｍｅｔ，Ｃｉｔである（上記表３を参照）。これらのアミノ酸の濃度値は、前記の評価において有用であると考えられる式に含まれる変数であることから、式と同様、前記の評価において有用なものであると考えられる。また、これらの線形判別式については、膵臓癌群と健常群のＲＯＣ＿ＡＵＣ値が０．７２７以上であり、膵臓癌群と健常群の判別能も良好であった。これらの線形判別式は、ＲＯＣ＿ＡＵＣ値が非常に高いことから、健常の状態もさらに考慮した、膵臓癌の状態の評価において有用なものであると考えられる。また、これらの線形判別式のうち、例えば、変数の組「Ａｓｎ，ＧＩｎ，Ｐｒｏ，Ｖａｌ，Ｐｈｅ，Ｔｒｐ」を持つ指標式１０「（５．６２６２）＋（－０．１５７９）Ａｓｎ＋（０．０１４７）ＧＩｎ＋（－０．０１３３）Ｐｒｏ＋（－０．０１７５）Ｖａｌ＋（０．０６８０）Ｐｈｅ＋（－０．１０４７）Ｔｒｐ」（Ａｓｎ，ＧＩｎ，Ｐｒｏ，Ｖａｌ，Ｐｈｅ，Ｔｒｐを変数として含む多変量判別式）の判別能は、ＲＯＣ＿ＡＵＣ（Ｖａｌｉｄａｔｉｏｎ）＝０．８８９，ＲＯＣ＿ＡＵＣ（Ｎｏ　Ｖａｌｉｄａｔｉｏｎ）＝０．９００，感度＝０．８２８，特異度＝０．８８２と良好なものであった。なお、上記感度及び特異度は、感度と特異度の平均が最も高くなる最高判別点をカットオフ値とした場合の値である。

[0282] ここで、指標式１０を用いて、実施例４と同様に式の値を算出することができ、また、算出された式の値及び予め設定されたカットオフ値を用いて、実施例４と同様に各症例を分類することができる。

[0283] バリデーション有りでの膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣ値が０．７５０以上で、かつ、膵臓癌群と健常群の判別能も良好なロジスティック回帰式の一覧を、後述する［実施例５で探索されたロジスティック回帰式の一覧（その２）］に示す。これらのロジスティック回帰式は、ＲＯＣ＿ＡＵＣ値が非常に高いことから、肺癌の状態と健常の状態を両方考慮した、膵臓癌の状態の評価において有用なものであると考えられる。なお、これらのロジスティック回帰式に含まれるアミノ酸変数の出現頻度を多い順に１０位まで列挙

すると、Ｔｒｐ，Ｐｈｅ，Ｍｅｔ，Ｓｅｒ，Ｇｌｎ，Ｃｉｔ，Ａｓｎ，Ｈｉｓ，Ｌｙｓ，Ｉｌｅ，Ａｒｇの１１個である（上記表３を参照）。これらのアミノ酸の濃度値は、前記の評価において有用であると考えられる式に含まれる変数であることから、式と同様、前記の評価において有用なものであると考えられる。また、これらのロジスティック回帰式のうち、例えば、変数の組「Ａｓｎ，Ｇｌｎ，Ｈｉｓ，Ｍｅｔ，Ｐｈｅ，Ｔｒｐ」を持つ指標式１１「（０．７４２８）＋（－０．０９４８）Ａｓｎ＋（０．０１４７）Ｇｌｎ＋（－０．０２５０）Ｈｉｓ＋（－０．１９０１）Ｍｅｔ＋（０．０５７９）Ｐｈｅ＋（－０．０７４１）Ｔｒｐ」（Ａｓｎ，Ｇｌｎ，Ｈｉｓ，Ｍｅｔ，Ｐｈｅ，Ｔｒｐを変数として含む多変量判別式）の判別能は、ＲＯＣ＿ＡＵＣ（Ｖａｌｉｄａｔｉｏｎ）＝０．８５８，ＲＯＣ＿ＡＵＣ（Ｎｏ Ｖａｌｉｄａｔｉｏｎ）＝０．８８２，感度＝０．７４７，特異度＝０．９０２と良好なものであった。なお、上記感度及び特異度は、感度と特異度の平均が最も高くなる最高判別点をカットオフ値とした場合の値である。

[0284] ここで、指標式１１を用いて、実施例４と同様に式の値を算出することができ、また、算出された式の値及び予め設定されたカットオフ値を用いて、実施例４と同様に各症例を分類することができる。

[0285] バリデーション有りでの膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣ値が０．７５０以上で、かつ、膵臓癌群と健常群の判別能も良好な線形判別式の一覧を、後述する［実施例５で探索された線形判別式の一覧（その２）］に示す。これらの線形判別式が、ＲＯＣ＿ＡＵＣ値が非常に高いことから、肺癌の状態と健常の状態を両方考慮した、膵臓癌の状態の評価において有用なものであると考えられる。なお、これらの線形判別式に含まれるアミノ酸変数の出現頻度を多い順に１０位まで列挙すると、Ｔｒｐ，Ｐｈｅ，Ｍｅｔ，Ｓｅｒ，Ａｓｎ，Ｈｉｓ，Ｇｌｎ，Ｃｉｔ，Ｌｙｓ，Ｔｙｒである（上記表３を参照）。これらのアミノ酸の濃度値は、前記の評価において有用であると考えられる式に含まれる変数であることから、式と同様、前記の評価において有用なものであると考えられる。また、これらの線形判別式のうち、例えば、変

数の組「Ｓｅｒ，Ａｓｎ，Ｃｉｔ，Ｍｅｔ，Ｐｈｅ，Ｔｒｐ」を持つ指標式１２「（６．６３２７）＋（０．０１５９）Ｓｅｒ＋（－０．０６８８）Ａｓｎ＋（－０．０１６６）Ｃｉｔ＋（－０．１４４２）Ｍｅｔ＋（０．０６１８）Ｐｈｅ＋（－０．０９９６）Ｔｒｐ」（Ｓｅｒ，Ａｓｎ，Ｃｉｔ，Ｍｅｔ，Ｐｈｅ，Ｔｒｐを変数として含む多変量判別式）の判別能は、ＲＯＣ＿ＡＵＣ（Ｖａｌｉｄａｔｉｏｎ）＝０．８４１，ＲＯＣ＿ＡＵＣ（Ｎｏ Ｖａｌｉｄａｔｉｏｎ）＝０．８５８，感度＝０．８２５，特異度＝０．８０４と良好なものであった。なお、上記感度及び特異度は、感度と特異度の平均が最も高くなる最高判別点をカットオフ値とした場合の値である。

[0286] ここで、指標式１２を用いて、実施例４と同様に式の値を算出することができ、また、算出された式の値及び予め設定されたカットオフ値を用いて、実施例４と同様に各症例を分類することができる。

実施例 6

[0287] 実施例１で用いたサンプルデータを用いた。血漿中のアミノ酸濃度値が代入される変数を含む、膵臓癌群と大腸癌群との２群を判別するための多変量判別式（多変量関数）を求めた。

[0288] まず、多変量判別式としてロジスティック回帰式を用いた。ロジスティック回帰式に含める６個以下の変数の組み合わせを上記１９種類のアミノ酸から探索し、そしてバリデーションとしてＬｅａｖｅ－Ｏｎｅ－Ｏｕｔ法を採用して、膵臓癌群と大腸癌群の判別能が良好なロジスティック回帰式の探索を鋭意実施した。

[0289] バリデーション有りでの膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣ値が０．７５０以上であるロジスティック回帰式の一覧を、後述する［実施例６で探索されたロジスティック回帰式の一覧（その１）］に示す。これらのロジスティック回帰式は、ＲＯＣ＿ＡＵＣ値が非常に高いことから、大腸癌の状態を考慮した、膵臓癌の状態の評価において有用なものであると考えられる。なお、これらのロジスティック回帰式に含まれるアミノ酸変数の出現頻度を多い順に１０位まで列挙すると、Ｔｒｐ，Ｃｉｔ，Ｔｙｒ，Ｍｅｔ，Ａｓｎ，

Ｏｒｎ，Ｇｌｎ，Ｐｒｏ，Ａｌａ，ＧｌｙでＡる（下記表４を参照）。これらのアミノ酸は、前記の評価において有用であると考えられる式に含まれる変数であることから、式と同様、前記の評価において有用なものであると考えられる。また、これらのロジスティック回帰式については、膵臓癌群と健常群のＲＯＣ＿ＡＵＣ値が０．８０３以上であり、膵臓癌群と健常群の判別能も良好であった。これらのロジスティック回帰式は、ＲＯＣ＿ＡＵＣ値が非常に高いことから、健常の状態もさらに考慮した、膵臓癌の状態の評価において有用なものであると考えられる。また、これらのロジスティック回帰式のうち、例えば、変数の組「Ａｓｎ，Ｇｌｎ，Ｃｉｔ，Ｔｙｒ，Ｍｅｔ，Ｔｒｐ」を持つ指標式１３「（５．６６９２）＋（－０．０７１９）Ａｓｎ＋（０．００７２）Ｇｌｎ＋（－０．０７１５）Ｃｉｔ＋（０．０６７４）Ｔｙｒ＋（－０．１８７８）Ｍｅｔ＋（－０．１１０３）Ｔｒｐ」（Ａｓｎ，Ｇｌｎ，Ｃｉｔ，Ｔｙｒ，Ｍｅｔ，Ｔｒｐを変数として含む多変量判別式）の判別能は、ＲＯＣ＿ＡＵＣ（Ｖａｌｉｄａｔｉｏｎ）＝０．８５１，ＲＯＣ＿ＡＵＣ（Ｎｏ　Ｖａｌｉｄａｔｉｏｎ）＝０．８７４，感度＝０．８８９，特異度＝０．８０４と良好なものであった。なお、上記感度及び特異度は、感度と特異度の平均が最も高くなる最高判別点をカットオフ値とした場合の値である。

[0290]

[表4]

【表４】

アミノ酸	単変量	膵臓癌群 vs 大腸癌群			
		ロジスティック回帰式		線形判別式	
		大腸癌群	健常群	大腸癌群	健常群
Ser				12	37
Asn	○	43	32	41	21
Gly	○	14		13	
Gln	○	24	83	33	42
His	○		89		61
Thr	○		22	12	40
Ala	○	14			
Cit	○	100	19	97	25
Arg	○				
Pro	○	16			
Tyr	○	99		96	
Val	○				
Met	○	70	39	75	82
Orn		27	19	21	
Lys	○				
Ile	○				16
Leu	○		22		
Phe	○		77	20	97
Trp	○	100	100	100	100

（○は、有意に変動したアミノ酸を示す。数字は、アミノ酸変数の出現頻度を示す。）

[0291] ここで、指標式１３を用いて、実施例４と同様に式の値を算出することができ、また、算出された式の値及び予め設定されたカットオフ値を用いて、実施例４と同様に各症例を分類することができる。

[0292] つぎに、多変量判別式として線形判別式を用いた。線形判別式に含める６個以下の変数の組み合わせを上記１９種類のアミノ酸から探索し、そしてバリデーションとしてブートストラップ法を採用して、膵臓癌群と大腸癌群の判別能が良好な線形判別式の探索を鋭意実施した。

[0293] バリデーション有りでの膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣ値が０．７５０以上である線形判別式の一覧を、後述する［実施例６で探索された線形判別式の一覧（その１）］に示す。これらの線形判別式は、ＲＯＣ＿ＡＵＣ値が非常に高いことから、大腸癌の状態を考慮した、膵臓癌の状態の評価において有用なものであると考えられる。なお、これらの線形判別式に含まれるアミノ酸変数の出現頻度を多い順に１０位まで列挙すると、Ｔｒｐ，Ｃｉ

ｔ，Ｔｙｒ，Ｍｅｔ，Ａｓｎ，Ｇｌｎ，Ｏｒｎ，Ｐｈｅ，Ｇｌｙ，Ｔｈｒ，Ｓｅｒの１１個である（上記表４を参照）。これらのアミノ酸の濃度値は、前記の評価において有用であると考えられる式に含まれる変数であることから、式と同様、前記の評価において有用なものであると考えられる。また、これらの線形判別式については、膵臓癌群と健常群のＲＯＣ＿ＡＵＣ値が０．７９３以上であり、膵臓癌群と健常群の判別能も良好であった。これらの線形判別式は、ＲＯＣ＿ＡＵＣ値が非常に高いことから、健常の状態もさらに考慮した、膵臓癌の状態の評価において有用なものであると考えられる。また、これらの線形判別式のうち、例えば、変数の組「Ａｓｎ，Ｇｌｎ，Ｃｉｔ，Ｔｙｒ，Ｍｅｔ，Ｔｒｐ」を持つ指標式１４「（６．７４１３）＋（－０．０９４１）Ａｓｎ＋（０．００９３）Ｇｌｎ＋（－０．０６６６）Ｃｉｔ＋（０．０５６１）Ｔｙｒ＋（－０．１２６８）Ｍｅｔ＋（－０．１２２４）Ｔｒｐ」（Ａｓｎ，Ｇｌｎ，Ｃｉｔ，Ｔｙｒ，Ｍｅｔ，Ｔｒｐを変数として含む多変量判別式）の判別能は、ＲＯＣ＿ＡＵＣ（Ｖａｌｉｄａｔｉｏｎ）＝０．８６２，ＲＯＣ＿ＡＵＣ（Ｎｏ　Ｖａｌｉｄａｔｉｏｎ）＝０．８７６，感度＝０．８６１，特異度＝０．８２４と良好なものであった。なお、上記感度及び特異度は、感度と特異度の平均が最も高くなる最高判別点をカットオフ値とした場合の値である。

[0294] ここで、指標式１４を用いて、実施例４と同様に式の値を算出することができ、また、算出された式の値及び予め設定されたカットオフ値を用いて、実施例４と同様に各症例を分類することができる。

[0295] バリデーション有りでの膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣ値が０．７５０以上で、かつ、膵臓癌群と健常群の判別能も良好なロジスティック回帰式の一覧を、後述する［実施例６で探索されたロジスティック回帰式の一覧（その２）］に示す。これらのロジスティック回帰式は、ＲＯＣ＿ＡＵＣ値が非常に高いことから、大腸癌の状態と健常の状態を両方考慮した、膵臓癌の状態の評価において有用なものであると考えられる。なお、これらのロジスティック回帰式に含まれるアミノ酸変数の出現頻度を多い順に１０位まで

列挙すると、Ｔｒｐ，Ｈｉｓ，ＧＩｎ，Ｐｈｅ，Ｍｅｔ，Ａｓｎ，Ｌｅｕ，Ｔｈｒ，Ｃｉｔ，Ｏｒｎである（上記表４を参照）。これらのアミノ酸の濃度値は、前記の評価において有用であると考えられる式に含まれる変数であることから、式と同様、前記の評価において有用なものであると考えられる。また、これらのロジスティック回帰式のうち、例えば、変数の組「ＧＩｎ，Ｈｉｓ，Ｔｈｒ，Ｍｅｔ，Ｐｈｅ，Ｔｒｐ」を持つ指標式１５「（４．０４５７）＋（０．００７０）ＧＩｎ＋（－０．０５１５）Ｈｉｓ＋（０．００５９）Ｔｈｒ＋（－０．１９３５）Ｍｅｔ＋（０．０３７３）Ｐｈｅ＋（－０．０８１５）Ｔｒｐ」（ＧＩｎ，Ｈｉｓ，Ｔｈｒ，Ｍｅｔ，Ｐｈｅ，Ｔｒｐを変数として含む多変量判別式）の判別能は、ＲＯＣ＿ＡＵＣ（Ｖａｌｉｄａｔｉｏｎ）＝０．８２２，ＲＯＣ＿ＡＵＣ（Ｎｏ　Ｖａｌｉｄａｔｉｏｎ）＝０．８４９，感度＝０．７６２，特異度＝０．８４３と良好なものであった。なお、上記感度及び特異度は、感度と特異度の平均が最も高くなる最高判別点をカットオフ値とした場合の値である。

[0296] ここで、指標式１５を用いて、実施例４と同様に式の値を算出することができ、また、算出された式の値及び予め設定されたカットオフ値を用いて、実施例４と同様に各症例を分類することができる。

[0297] バリデーション有りでの膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣ値が０．７５０以上で、かつ、膵臓癌群と健常群の判別能も良好な線形判別式の一覧を、後述する［実施例６で探索された線形判別式の一覧（その２）］に示す。これらの線形判別式が、ＲＯＣ＿ＡＵＣ値が非常に高いことから、大腸癌の状態と健常の状態を両方考慮した、膵臓癌の状態の評価において有用なものであると考えられる。なお、これらの線形判別式に含まれるアミノ酸変数の出現頻度を多い順に１０位まで列挙すると、Ｔｒｐ，Ｐｈｅ，Ｍｅｔ，Ｈｉｓ，ＧＩｎ，Ｔｈｒ，Ｓｅｒ，Ｃｉｔ，Ａｓｎ，ＩｌｅであるＩｌｅである（上記表４を参照）。これらのアミノ酸の濃度値は、前記の評価において有用であると考えられる式に含まれる変数であることから、式と同様、前記の評価において有用なものであると考えられる。また、これらの線形判別式のうち、例えば

、変数の組「Ｇｌｎ，Ｈｉｓ，Ｔｈｒ，Ｍｅｔ，Ｐｈｅ，Ｔｒｐ」を持つ指標式１６「（４．７７５０）＋（０．００６６）Ｇｌｎ＋（－０．０４６６）Ｈｉｓ＋（０．００８４）Ｔｈｒ＋（－０．１９６７）Ｍｅｔ＋（０．０６６６）Ｐｈｅ＋（－０．１０５７）Ｔｒｐ」（Ｇｌｎ，Ｈｉｓ，Ｔｈｒ，Ｍｅｔ，Ｐｈｅ，Ｔｒｐを変数として含む多変量判別式）の判別能は、ＲＯＣ＿ＡＵＣ（Ｖａｌｉｄａｔｉｏｎ）＝０．８３５，ＲＯＣ＿ＡＵＣ（Ｎｏ Ｖａｌｉｄａｔｉｏｎ）＝０．８５６，感度＝０．７３０，特異度＝０．８８２と良好なものであった。なお、上記感度及び特異度は、感度と特異度の平均が最も高くなる最高判別点をカットオフ値とした場合の値である。

[0298] ここで、指標式１６を用いて、実施例４と同様に式の値を算出することができ、また、算出された式の値及び予め設定されたカットオフ値を用いて、実施例４と同様に各症例を分類することができる。

実施例 7

[0299] 実施例１で用いたサンプルデータのうち、男性のサンプルデータのみを用いた。血漿中のアミノ酸濃度値が代入される変数を含む、膵臓癌群と前立腺癌群との２群を判別するための多変量判別式（多変量関数）を求めた。

[0300] まず、多変量判別式としてロジスティック回帰式を用いた。ロジスティック回帰式に含める６個以下の変数の組み合わせを上記１９種類のアミノ酸から探索し、そしてバリデーションとしてＬｅａｖｅ－Ｏｎｅ－Ｏｕｔ法を採用して、膵臓癌群と前立腺癌群の判別能が良好なロジスティック回帰式の探索を鋭意実施した。

[0301] バリデーション有りでの膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣ値が０．７５０以上であるロジスティック回帰式の一覧を、後述する［実施例７で探索されたロジスティック回帰式の一覧（その１）］に示す。これらのロジスティック回帰式は、ＲＯＣ＿ＡＵＣ値が非常に高いことから、前立腺癌の状態を考慮した、膵臓癌の状態の評価において有用なものであると考えられる。なお、これらのロジスティック回帰式に含まれるアミノ酸変数の出現頻度を多い順に１０位まで列挙すると、Ｉｌｅ，Ｖａｌ，Ａｌａ，Ｓｅｒ，Ｍｅ

ｔ，Ｃｉｔ，Ｇｌｎ，Ａｓｎ，Ｐｒｏ，Ｔｈｒである（下記表５を参照）。これらのアミノ酸は、前記の評価において有用であると考えられる式に含まれる変数であることから、式と同様、前記の評価において有用なものであると考えられる。また、これらのロジスティック回帰式については、膵臓癌群と健常群のＲＯＣ＿ＡＵＣ値が０．８１６以上であり、膵臓癌群と健常群の判別能も良好であった。これらのロジスティック回帰式は、ＲＯＣ＿ＡＵＣ値が非常に高いことから、健常の状態もさらに考慮した、膵臓癌の状態の評価において有用なものであると考えられる。また、これらのロジスティック回帰式のうち、例えば、変数の組「Ｓｅｒ，Ａｌａ，Ｖａｌ，Ｍｅｔ，Ｉｌｅ」を持つ指標式１７「（３．０４９９）＋（０．０４０６）Ｓｅｒ＋（－０．０１２１）Ａｌａ＋（－０．０４０２）Ｖａｌ＋（－０．１７８９）Ｍｅｔ＋（０．１３６１）Ｉｌｅ」（Ｓｅｒ，Ａｌａ，Ｖａｌ，Ｍｅｔ，Ｉｌｅを変数として含む多変量判別式）の判別能は、ＲＯＣ＿ＡＵＣ（Ｖａｌｉｄａｔｉｏｎ）＝０．８７７，ＲＯＣ＿ＡＵＣ（Ｎｏ Ｖａｌｉｄａｔｉｏｎ）＝０．９０７，感度＝０．８２８，特異度＝０．９０３と良好なものであった。なお、上記感度及び特異度は、感度と特異度の平均が最も高くなる最高判別点をカットオフ値とした場合の値である。

[0302]

[表5]

【表５】

アミノ酸	膵臓癌群 vs 前立腺癌群				
	単変量	ロジスティック回帰式		線形判別式	
		前立腺癌群	健常群	前立腺癌群	健常群
Ser		61	100		99
Asn	○	23		15	
Gly					
Gln		33		20	
His	○				
Thr	○	17	30		15
Ala	○	81		92	
Cit	○	41		21	
Arg	○		15	8	15
Pro	○	17		25	
Tyr	○		14	8	15
Val	○	91	45	96	32
Met	○	54	100	41	100
Orn					14
Lys	○		19		
Ile		100	81	100	35
Leu	○			9	14
Phe	○		43		93
Trp	○		65		86

（○は、有意に変動したアミノ酸を示す。数字は、アミノ酸変数の出現頻度を示す。）

[0303] ここで、指標式１７を用いて、実施例４と同様に式の値を算出することができ、また、算出された式の値及び予め設定されたカットオフ値を用いて、実施例４と同様に各症例を分類することができる。

[0304] つぎに、多変量判別式として線形判別式を用いた。線形判別式に含める６個以下の変数の組み合わせを上記１９種類のアミノ酸から探索し、そしてバリデーションとしてブートストラップ法を採用して、膵臓癌群と前立腺癌群の判別能が良好な線形判別式の探索を鋭意実施した。

[0305] バリデーション有りでの膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣ値が０．７５０以上である線形判別式の一覧を、後述する［実施例７で探索された線形判別式の一覧（その１）］に示す。これらの線形判別式は、ＲＯＣ＿ＡＵＣ値が非常に高いことから、前立腺癌の状態を考慮した、膵臓癌の状態の評価において有用なものであると考えられる。なお、これらの線形判別式に含まれるアミノ酸変数の出現頻度を多い順に１０位まで列挙すると、Ｉｌｅ，

Ｖａｌ，Ａｌａ，Ｍｅｔ，Ｐｒｏ，Ｃｉｔ，Ｇｌｎ，Ａｓｎ，Ｌｅｕ，Ａｒｇ，Ｔｙｒの１１個である（上記表５を参照）。これらのアミノ酸の濃度値は、前記の評価において有用であると考えられる式に含まれる変数であることから、式と同様、前記の評価において有用なものであると考えられる。また、これらの線形判別式は、膵臓癌群と健常群のＲＯＣ＿ＡＵＣ値が０．８１８以上であり、膵臓癌群と健常群の判別能も良好であった。これらの線形判別式は、ＲＯＣ＿ＡＵＣ値が非常に高いことから、健常の状態もさらに考慮した、膵臓癌の状態の評価において有用なものであると考えられる。また、これらの線形判別式のうち、例えば、変数の組「Ｇｌｎ，Ａｌａ，Ｃｉｔ，Ｖａｌ，Ｍｅｔ，Ｉｌｅ」を持つ指標式１８「（５．０８５９）＋（０．０１０９）Ｇｌｎ＋（－０．０１７１）Ａｌａ＋（－０．０４５２）Ｃｉｔ＋（－０．０３８９）Ｖａｌ＋（－０．１５４８）Ｍｅｔ＋（０．１２８４）Ｉｌｅ」（Ｇｌｎ，Ａｌａ，Ｃｉｔ，Ｖａｌ，Ｍｅｔ，Ｉｌｅを変数として含む多変量判別式）の判別能は、ＲＯＣ＿ＡＵＣ（Ｖａｌｉｄａｔｉｏｎ）＝０．８８９，ＲＯＣ＿ＡＵＣ（Ｎｏ　Ｖａｌｉｄａｔｉｏｎ）＝０．９１４，感度＝０．８６２，特異度＝０．８７１と良好なものであった。なお、上記感度及び特異度は、感度と特異度の平均が最も高くなる最高判別点をカットオフ値とした場合の値である。

[0306] ここで、指標式１８を用いて、実施例４と同様に式の値を算出することができ、また、算出された式の値及び予め設定されたカットオフ値を用いて、実施例４と同様に各症例を分類することができる。

[0307] バリデーション有りでの膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣ値が０．７５０以上で、かつ、膵臓癌群と健常群の判別能も良好なロジスティック回帰式の一覧を、後述する［実施例７で探索されたロジスティック回帰式の一覧（その２）］に示す。これらのロジスティック回帰式は、ＲＯＣ＿ＡＵＣ値が非常に高いことから、健常の状態と前立腺癌の状態を両方考慮した、膵臓癌の状態の評価において有用なものであると考えられる。なお、これらのロジスティック回帰式に含まれるアミノ酸変数の出現頻度を多い順に１０位

まで列挙すると、Ｍｅｔ，Ｓｅｒ，Ｉｌｅ，Ｔｒｐ，Ｖａｌ，Ｐｈｅ，Ｔｈｒ，Ｌｙｓ，Ａｒｇ，Ｔｙｒである（上記表５を参照）。これらのアミノ酸の濃度値は、前記の評価において有用であると考えられる式に含まれる変数であることから、式と同様、前記の評価において有用なものであると考えられる。また、これらのロジスティック回帰式のうち、例えば、変数の組「Ｓｅｒ，Ｍｅｔ，Ｉｌｅ，Ｌｅｕ，Ｐｈｅ，Ｔｒｐ」を持つ指標式１９「（－０．４０６１）＋（０．０３９９）Ｓｅｒ＋（－０．２１４１）Ｍｅｔ＋（０．１２９８）Ｉｌｅ＋（－０．０６５８）Ｌｅｕ＋（０．０４０２）Ｐｈｅ＋（－０．０５３９）Ｔｒｐ」（Ｓｅｒ，Ｍｅｔ，Ｉｌｅ，Ｌｅｕ，Ｐｈｅ，Ｔｒｐを変数として含む多変量判別式）の判別能は、ＲＯＣ＿ＡＵＣ（Ｖａｌｉｄａｔｉｏｎ）＝０．７８７，ＲＯＣ＿ＡＵＣ（Ｎｏ　Ｖａｌｉｄａｔｉｏｎ）＝０．８５６，感度＝０．８５１，特異度＝０．７７４と良好なものであった。なお、上記感度及び特異度は、感度と特異度の平均が最も高くなる最高判別点をカットオフ値とした場合の値である。

[0308] ここで、指標式１９を用いて、実施例４と同様に式の値を算出することができ、また、算出された式の値及び予め設定されたカットオフ値を用いて、実施例４と同様に各症例を分類することができる。

[0309] バリデーション有りでの膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣ値が０．７５０以上で、かつ、膵臓癌群と健常群の判別能も良好な線形判別式の一覧を、後述する［実施例７で探索された線形判別式の一覧（その２）］に示す。これらの線形判別式が、ＲＯＣ＿ＡＵＣ値が非常に高いことから、健常の状態と前立腺癌の状態を両方考慮した、膵臓癌の状態の評価において有用なものであると考えられる。なお、これらの線形判別式に含まれるアミノ酸変数の出現頻度を多い順に１０位まで列挙すると、Ｍｅｔ，Ｓｅｒ，Ｐｈｅ，Ｔｒｐ，Ｉｌｅ，Ｖａｌ，Ｔｙｒ，Ａｒｇ，Ｔｈｒ，Ｏｒｎ，Ｌｅｕの１１個である（上記表５を参照）。これらのアミノ酸の濃度値は、前記の評価において有用であると考えられる式に含まれる変数であることから、式と同様、前記の評価において有用なものであると考えられる。また、これらの線形

判別式のうち、例えば、変数の組「Ｓｅｒ，Ｖａｌ，Ｍｅｔ，Ｉｌｅ，Ｐｈｅ，Ｔｒｐ」を持つ指標式２０「（１．６３９４）＋（０．０３８７）Ｓｅｒ＋（－０．０４５５）Ｖａｌ＋（－０．２５４５）Ｍｅｔ＋（０．１２８３）Ｉｌｅ＋（０．０５４６）Ｐｈｅ＋（－０．０２９９）Ｔｒｐ」（Ｓｅｒ，Ｖａｌ，Ｍｅｔ，Ｉｌｅ，Ｐｈｅ，Ｔｒｐを変数として含む多変量判別式）の判別能は、ＲＯＣ＿ＡＵＣ（Ｖａｌｉｄａｔｉｏｎ）＝０．８５９，ＲＯＣ＿ＡＵＣ（Ｎｏ　Ｖａｌｉｄａｔｉｏｎ）＝０．８８５，感度＝０．９０８，特異度＝０．７４２と良好なものであった。なお、上記感度及び特異度は、感度と特異度の平均が最も高くなる最高判別点をカットオフ値とした場合の値である。

[0310] ここで、指標式２０を用いて、実施例４と同様に式の値を算出することができ、また、算出された式の値及び予め設定されたカットオフ値を用いて、実施例４と同様に各症例を分類することができる。

実施例 8

[0311] 実施例１で用いたサンプルデータのうち、女性のサンプルデータのみを用いた。血漿中のアミノ酸濃度値が代入される変数を含む、膵臓癌群と乳癌群との２群を判別するための多変量判別式（多変量関数）を求めた。

[0312] まず、多変量判別式としてロジスティック回帰式を用いた。ロジスティック回帰式に含める６個以下の変数の組み合わせを上記１９種類のアミノ酸から探索し、そしてバリデーションとしてＬｅａｖｅ－Ｏｎｅ－Ｏｕｔ法を採用して、膵臓癌群と乳癌群の判別能が良好なロジスティック回帰式の探索を鋭意実施した。

[0313] バリデーション有りでの膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣ値が０．７５０以上であるロジスティック回帰式の一覧を、後述する［実施例８で探索されたロジスティック回帰式の一覧（その１）］に示す。これらのロジスティック回帰式は、ＲＯＣ＿ＡＵＣ値が非常に高いことから、乳癌の状態を考慮した、膵臓癌の状態の評価において有用なものであると考えられる。なお、これらのロジスティック回帰式に含まれるアミノ酸変数の出現頻度を多い順

に１０位まで列挙すると、Ｔｙｒ，Ｔｒｐ，Ｇｌｙ，Ａｌａ，Ａｓｎ，Ｌｙｓ，Ｍｅｔ，Ｖａｌ，Ｏｒｎ，Ｌｅｕである（下記表６を参照）。これらのアミノ酸は、前記の評価において有用であると考えられる式に含まれる変数であることから、式と同様、前記の評価において有用なものであると考えられる。また、これらのロジスティック回帰式については、膵臓癌群と健常群のＲＯＣ＿ＡＵＣ値が０．７９６以上であり、膵臓癌群と健常群の判別能も良好であった。これらのロジスティック回帰式は、ＲＯＣ＿ＡＵＣ値が非常に高いことから、健常の状態もさらに考慮した、膵臓癌の状態の評価において有用なものであると考えられる。また、これらのロジスティック回帰式のうち、例えば、変数の組「Ａｓｎ，Ｇｌｙ，Ａｒｇ，Ｔｙｒ，Ｖａｌ，Ｔｒｐ」を持つ指標式２１「（１９．７７２１）＋（－０．１８６０）Ａｓｎ＋（－０．０２１４）Ｇｌｙ＋（－０．０２９４）Ａｒｇ＋（０．１５１９）Ｔｙｒ＋（－０．０３２５）Ｖａｌ＋（－０．１９３２）Ｔｒｐ」（Ａｓｎ，Ｇｌｙ，Ａｒｇ，Ｔｙｒ，Ｖａｌ，Ｔｒｐを変数として含む多変量判別式）の判別能は、ＲＯＣ＿ＡＵＣ（Ｖａｌｉｄａｔｉｏｎ）＝０．９４５，ＲＯＣ＿ＡＵＣ（Ｎｏ　Ｖａｌｉｄａｔｉｏｎ）＝０．９６５，感度＝０．８５１，特異度＝１．０００と良好なものであった。なお、上記感度及び特異度は、感度と特異度の平均が最も高くなる最高判別点をカットオフ値とした場合の値である。

[0314]

[表6]

【表6】

アミノ酸	膵臓癌群 vs 乳癌群				
	単変量	ロジスティック回帰式		線形判別式	
		乳癌群	健常群	乳癌群	健常群
Ser	○				
Asn	○	48		55	
Gly	○	84		80	16
Gln			37		28
His	○		100	14	98
Thr	○				
Ala	○	61		63	
Cit			34		31
Arg			60		69
Pro					
Tyr		100	33	100	23
Val	○	26		26	
Met	○	30		32	
Orn		17		18	
Lys	○	32	30	27	31
Ile	○		69		94
Leu		16	34		21
Phe			34		
Trp	○	100	94	100	100

（○は、有意に変動したアミノ酸を示す。数字は、アミノ酸変数の出現頻度を示す。）

[0315] ここで、指標式２１を用いて、実施例４と同様に式の値を算出することができ、また、算出された式の値及び予め設定されたカットオフ値を用いて、実施例４と同様に各症例を分類することができる。

[0316] つぎに、多変量判別式として線形判別式を用いた。線形判別式に含める６個以下の変数の組み合わせを上記１９種類のアミノ酸から探索し、そしてバリデーションとしてブートストラップ法を採用して、膵臓癌群と乳癌群の判別能が良好な線形判別式の探索を鋭意実施した。

[0317] バリデーション有りでの膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣ値が０．７５０以上である線形判別式の一覧を、後述する［実施例８で探索された線形判別式の一覧（その１）］に示す。これらの線形判別式は、ＲＯＣ＿ＡＵＣ値が非常に高いことから、乳癌の状態を考慮した、膵臓癌の状態の評価において有用なものであると考えられる。なお、これらの線形判別式に含まれるアミノ酸変数の出現頻度を多い順に１０位まで列挙すると、Ｔｙｒ，Ｔｒｐ，

Ｇｌｙ，Ａｌａ，Ａｓｎ，Ｍｅｔ，Ｌｙｓ，Ｖａｌ，Ｏｒｎ，Ｈｉｓである（上記表６を参照）。これらのアミノ酸の濃度値は、前記の評価において有用であると考えられる式に含まれる変数であることから、式と同様、前記の評価において有用なものであると考えられる。また、これらの線形判別式については、膵臓癌群と健常群のＲＯＣ＿ＡＵＣ値が０．８００以上であり、膵臓癌群と健常群の判別能も良好であった。これらの線形判別式は、ＲＯＣ＿ＡＵＣ値が非常に高いことから、健常の状態もさらに考慮した、膵臓癌の状態の評価において有用なものであると考えられる。また、これらの線形判別式のうち、例えば、変数の組「Ａｓｎ，Ｇｌｙ，Ｔｙｒ，Ｖａｌ，Ｌｙｓ，Ｔｒｐ」を持つ指標式２２「（１６．５０８０）＋（－０．１８４７）Ａｓｎ＋（－０．０１３６）Ｇｌｙ＋（０．１０５９）Ｔｙｒ＋（－０．０１６６）Ｖａｌ＋（－０．０１４４）Ｌｙｓ＋（－０．１２６１）Ｔｒｐ」（Ａｓｎ，Ｇｌｙ，Ｔｙｒ，Ｖａｌ，Ｌｙｓ，Ｔｒｐを変数として含む多変量判別式）の判別能は、ＲＯＣ＿ＡＵＣ（Ｖａｌｉｄａｔｉｏｎ）＝０．９４７，ＲＯＣ＿ＡＵＣ（Ｎｏ　Ｖａｌｉｄａｔｉｏｎ）＝０．９６３，感度＝０．８５１，特異度＝１．０００と良好なものであった。なお、上記感度及び特異度は、感度と特異度の平均が最も高くなる最高判別点をカットオフ値とした場合の値である。

[0318] ここで、指標式２２を用いて、実施例４と同様に式の値を算出することができ、また、算出された式の値及び予め設定されたカットオフ値を用いて、実施例４と同様に各症例を分類することができる。

[0319] バリデーション有りでの膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣ値が０．７５０以上で、かつ、膵臓癌群と健常群の判別能も良好なロジスティック回帰式の一覧を、後述する［実施例８で探索されたロジスティック回帰式の一覧（その２）］に示す。これらのロジスティック回帰式は、ＲＯＣ＿ＡＵＣ値が非常に高いことから、健常の状態と乳癌の状態を両方考慮した、膵臓癌の状態の評価において有用なものであると考えられる。なお、これらのロジスティック回帰式に含まれるアミノ酸変数の出現頻度を多い順に１０位まで列挙

すると、Ｈｉｓ，Ｔｒｐ，Ｉｌｅ，Ａｒｇ，ＧＩｎ，Ｐｈｅ，Ｃｉｔ，Ｌｅｕ，Ｔｙｒ，Ｌｙｓである（上記表６を参照）。これらのアミノ酸の濃度値は、前記の評価において有用であると考えられる式に含まれる変数であることから、式と同様、前記の評価において有用なものであると考えられる。また、これらのロジスティック回帰式のうち、例えば、変数の組「ＧＩｎ，Ｈｉｓ，Ａｒｇ，Ｔｙｒ，Ｉｌｅ，Ｔｒｐ」を持つ指標式２３「（９．６００１）＋（０．００１０）ＧＩｎ＋（－０．１０５２）Ｈｉｓ＋（－０．０３８６）Ａｒｇ＋（０．０７６２）Ｔｙｒ＋（０．００４９）Ｉｌｅ＋（－０．１２５７）Ｔｒｐ」（ＧＩｎ，Ｈｉｓ，Ａｒｇ，Ｔｙｒ，Ｉｌｅ，Ｔｒｐを変数として含む多変量判別式）の判別能は、ＲＯＣ＿ＡＵＣ（Ｖａｌｉｄａｔｉｏｎ）＝０．８７８，ＲＯＣ＿ＡＵＣ（Ｎｏ　Ｖａｌｉｄａｔｉｏｎ）＝０．９２３，感度＝０．８７６，特異度＝０．９００と良好なものであった。なお、上記感度及び特異度は、感度と特異度の平均が最も高くなる最高判別点をカットオフ値とした場合の値である。

[0320] ここで、指標式２３を用いて、実施例４と同様に式の値を算出することができ、また、算出された式の値及び予め設定されたカットオフ値を用いて、実施例４と同様に各症例を分類することができる。

[0321] バリデーション有りでの膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣ値が０．７５０以上で、かつ、膵臓癌群と健常群の判別能も良好な線形判別式の一覧を、後述する［実施例８で探索された線形判別式の一覧（その２）］に示す。これらの線形判別式が、ＲＯＣ＿ＡＵＣ値が非常に高いことから、健常の状態と乳癌の状態を両方考慮した、膵臓癌の状態の評価において有用なものであると考えられる。なお、これらの線形判別式に含まれるアミノ酸変数の出現頻度を多い順に１０位まで列挙すると、Ｔｒｐ，Ｈｉｓ，Ｉｌｅ，Ａｒｇ，Ｌｙｓ，Ｃｉｔ，ＧＩｎ，Ｔｙｒ，Ｌｅｕ，ＧＩｙである（上記表６を参照）。これらのアミノ酸の濃度値は、前記の評価において有用であると考えられる式に含まれる変数であることから、式と同様、前記の評価において有用なものであると考えられる。また、これらの線形判別式のうち、例えば、変

数の組「Ｇｌｎ，Ｈｉｓ，Ａｒｇ，Ｔｙｒ，Ｉｌｅ，Ｔｒｐ」を持つ指標式２４「（１０．５６１５）＋（０．００３７）Ｇｌｎ＋（－０．１０８７）Ｈｉｓ＋（－０．０４４５）Ａｒｇ＋（０．０６５３）Ｔｙｒ＋（０．０３８０）Ｉｌｅ＋（－０．１４８９）Ｔｒｐ」の判別能は、ＲＯＣ＿ＡＵＣ（Ｖａｌｉｄａｔｉｏｎ）＝０．８９６，ＲＯＣ＿ＡＵＣ（Ｎｏ　Ｖａｌｉｄａｔｉｏｎ）＝０．９２４，感度＝０．８４３，特異度＝０．９５０と良好なものであった。なお、上記感度及び特異度は、感度と特異度の平均が最も高くなる最高判別点をカットオフ値とした場合の値である。

[0322] ここで、指標式２４を用いて、実施例４と同様に式の値を算出することができ、また、算出された式の値及び予め設定されたカットオフ値を用いて、実施例４と同様に各症例を分類することができる。

実施例 9

[0323] 実施例１で用いたサンプルデータを用いた。まず、実施例２で求めた指標式１を第一の式として設定して、膵臓癌群（５１例）、健常群（２５５例）、他癌群（７８０例）のアミノ酸濃度値及びこの第一の式を用いて各群の各症例を陽性（膵臓癌区分に相当）及び陰性（健常区分に相当）のどちらかに分類した。その結果、特異度（健常群の各症例を、正しく健常区分に分類した割合）が９５％のときの各群に対する陽性率はそれぞれ、膵臓癌群で７１％（陽性者数３６例）、健常群で５％（陽性者数１３例）、他癌群で２２％（１７０例）であった。

[0324] つぎに、実施例４で求めた指標式５を第二の式として設定して、指標式１で陽性であった各群の症例（膵臓癌群（３６例）、健常群（１３例）、他癌群（１７０例））のアミノ酸濃度値及びこの第二の式を用いて各群の各症例を陽性（膵臓癌区分に相当）及び陰性（他癌区分に相当）のどちらかに分類した。その結果、特異度（他癌群の各症例を、正しく他癌区分に分類した割合）が９５％のときの各群に対する陽性率はそれぞれ、膵臓癌群で３３％（陽性者数１７例）、健常群で２％（陽性者数４例）、他癌群で４％（３２例）であった。また、特異度が８０％のときの各群に対する陽性率はそれぞれ

、膵臓癌群で５９％（陽性者数３０例）、健常群で４％（陽性者数９例）、他癌群で１０％（７８例）であった。

[0325] 以上、複数の式を使用することにより、膵臓癌群に対する真陽性率を大きく低下させることなく、他癌群に対する偽陽性率を低下させることができた。

[0326] なお、上記結果をもとに、第一の式で陽性であり且つ第二の式でも陽性であった症例を膵臓癌区分に分類し、それ以外の症例を非膵臓癌区分に分類することが可能である。

また、第一の式で陽性であり且つ第二の式でも陽性であった症例を膵臓癌区分に分類し、第一の式で陽性であり且つ第二の式で陰性であった症例を他癌区分に分類し、第一の式で陰性であった症例を健常区分に分類することも可能である。なお、膵臓癌区分に分類された症例を、膵臓癌である可能性が高いことを意味する区分（例えば、膵臓癌である可能性が高く且つ膵臓癌以外の癌である可能性が高くないことを意味する区分など）であるランクＣ、他癌区分に分類された症例を、膵臓癌である可能性が中程度であることを意味する区分（例えば、膵臓癌である可能性が中程度であり且つ膵臓癌以外の癌である可能性が低くないことを意味する区分など）であるランクＢ、そして、健常区分に分類された症例を、膵臓癌である可能性が低いことを意味する区分であるランクＡと設定することも可能である。

また、指標式１を第一の式として設定して、膵臓癌群（５１例）、健常群（２５５例）、他癌群（７８０例）のアミノ酸濃度値及びこの第一の式を用いて各群の各症例を陽性（膵臓癌区分に相当）及び陰性（健常区分に相当）のどちらかに分類すると共に、指標式５を第二の式として設定して、膵臓癌群（５１例）、健常群（２５５例）、他癌群（７８０例）のアミノ酸濃度値及びこの第二の式を用いて各群の各症例を陽性（膵臓癌区分に相当）及び陰性（他癌区分に相当）のどちらかに分類し、それらの分類結果を総合判断して、最終的な分類を行うことも可能である。

産業上の利用可能性

[0327] 以上のように、本発明にかかる膵臓癌の評価方法などは、産業上の多くの分野、特に医薬品や食品、医療などの分野で広く実施することができ、特に、膵臓癌の状態の進行予測や疾病リスク予測やプロテオームやメタボローム解析などを行うバイオインフォマティクス分野において極めて有用である。

符号の説明

[0328] １００　膵臓癌評価装置
１０２　制御部
１０２ａ　要求解釈部
１０２ｂ　閲覧処理部
１０２ｃ　認証処理部
１０２ｄ　電子メール生成部
１０２ｅ　Ｗｅｂページ生成部
１０２ｆ　受信部
１０２ｇ　膵臓癌状態情報指定部
１０２ｈ　評価式作成部
１０２ｈ１　候補式作成部
１０２ｈ２　候補式検証部
１０２ｈ３　変数選択部
１０２ｉ　評価部
１０２ｉ１　算出部
１０２ｉ２　変換部
１０２ｉ３　生成部
１０２ｉ４　分類部
１０２ｊ　結果出力部
１０２ｋ　送信部
１０４　通信インターフェース部
１０６　記憶部
１０６ａ　利用者情報ファイル

１０６ｂ　アミノ酸濃度データファイル

１０６ｃ　膵臓癌状態情報ファイル

１０６ｄ　指定膵臓癌状態情報ファイル

１０６ｅ　評価式関連情報データベース

１０６ｅ１　候補式ファイル

１０６ｅ２　検証結果ファイル

１０６ｅ３　選択膵臓癌状態情報ファイル

１０６ｅ４　評価式ファイル

１０６ｆ　評価結果ファイル

１０８　入出力インターフェース部

１１２　入力装置

１１４　出力装置

２００　クライアント装置（情報通信端末装置）

３００　ネットワーク

４００　データベース装置

[0329] ［実施例２で探索されたロジスティック回帰式の一覧（その１）］

以下に、前述した実施例２で探索されたロジスティック回帰式を列挙する。なお、式の前には、その式について得られた、「バリデーション有りでの膵臓癌群と健常群のＲＯＣ＿ＡＵＣの値」、「バリデーション無しでの膵臓癌群と健常群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と他癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣの値」、および「膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣの値の平均値」を、さらに列挙する。

[0330] 0.902,0.923,0.809,0.790,0.778,0.870,0.878,0.829,(-1.3217)+(0.0545)Ser+(-0.0544)Val+(-0.3973)Met+(0.1922)Ile+(0.1506)Phe+(-0.1179)Trp;0.900

,0.919,0.800,0.780,0.815,0.860,0.777,0.808,(1.1114)+(0.0530)Ser+(-0.1384)His+(0.0420)Thr+(-0.3641)Met+(0.1993)Phe+(-0.1237)Trp;0.899,0.917,0.812,0.798,0.789,0.854,0.864,0.826,(2.2454)+(0.0452)Thr+(-0.0612)Val+(-0.4741)Met+(0.2021)Ile+(0.1569)Phe+(-0.1267)Trp;0.894,0.918,0.783,0.749,0.760,0.870,0.859,0.810,(-1.8219)+(0.0622)Ser+(-0.1003)His+(-0.0447)Val+(-0.4105)Met+(0.1701)Ile+(0.1621)Phe;0.891,0.913,0.825,0.813,0.822,0.870,0.830,0.834,(-0.7646)+(0.0539)Ser+(0.0080)Gln+(-0.1367)His+(-0.2716)Met+(0.1766)Phe+(-0.1028)Trp;0.891,0.910,0.793,0.765,0.776,0.856,0.858,0.814,(2.3264)+(-0.0966)His+(0.0489)Thr+(-0.0552)Val+(-0.4896)Met+(0.1897)Ile+(0.1580)Phe;0.890,0.916,0.807,0.794,0.791,0.854,0.841,0.820,(-1.8334)+(0.0536)Ser+(-0.3463)Met+(0.1735)Ile+(-0.0820)Leu+(0.1380)Phe+(-0.1330)Trp;0.890,0.912,0.785,0.765,0.749,0.870,0.849,0.808,(-3.2110)+(0.0409)Ser+(0.0284)Thr+(-0.0697)Val+(-0.5814)Met+(0.2181)Ile+(0.1512)Phe;0.890,0.914,0.791,0.754,0.794,0.854,0.836,0.810,(-0.4856)+(0.0659)Ser+(-0.1214)His+(-0.2902)Met+(0.0720)Ile+(0.1503)Phe+(-0.1121)Trp;0.889,0.910,0.831,0.819,0.840,0.854,0.829,0.835,(2.1791)+(0.0103)Gln+(-0.1446)His+(0.0467)Thr+(-0.3603)Met+(0.1795)Phe+(-0.1251)Trp;0.888,0.909,0.797,0.783,0.752,0.872,0.876,0.821,(-2.0528)+(0.0623)Ser+(-0.1191)Asn+(-0.0671)Val+(-0.3897)Met+(0.2086)Ile+(0.1559)Phe;0.887,0.911,0.794,0.768,0.802,0.853,0.801,0.806,(0.2218)+(0.0663)Ser+(-0.1176)His+(0.0128)Pro+(-0.2882)Met+(0.1713)Phe+(-0.1063)Trp;0.885,0.906,0.770,0.736,0.762,0.850,0.821,0.792,(-2.1269)+(0.0641)Ser+(-0.1326)His+(-0.3520)Met+(0.1518)Ile+(-0.0632)Leu+(0.1622)Phe;0.885,0.904,0.807,0.790,0.811,0.859,0.806,0.816,(0.7826)+(0.0620)Ser+(-0.1170)His+(-0.2419)Met+(0.1752)Phe+(-0.1023)Trp;0.885,0.908,0.812,0.789,0.821,0.865,0.815,0.822,(0.6585)+(0.0637)Ser+(-0.1191)His+(0.0234)Tyr+(-0.2771)Met+(0.1715)Phe+(-0.1085)Trp;0.884,0.906,0.805,0.777,0.785,0.883,0.862,0.827,(2.1234)+(0.0509)Ser+(0.0590)Tyr+(-0.0488)Val+(

-0.3619)Met+(0.1995)Ile+(-0.1244)Trp;0.884,0.905,0.810,0.795,0.815,0.858,0.807,0.819,(1.0354)+(0.0642)Ser+(-0.0298)Asn+(-0.1127)His+(-0.2223)Met+(0.1737)Phe+(-0.1009)Trp;0.884,0.909,0.795,0.777,0.745,0.877,0.887,0.821,(-3.0328)+(0.0510)Ser+(-0.0050)Ala+(-0.0625)Val+(-0.4487)Met+(0.2107)Ile+(0.1401)Phe;0.883,0.907,0.791,0.769,0.747,0.865,0.888,0.817,(-3.0576)+(0.0592)Ser+(-0.0056)Gly+(-0.0640)Val+(-0.4783)Met+(0.2055)Ile+(0.1405)Phe;0.882,0.903,0.805,0.787,0.810,0.855,0.804,0.814,(0.7088)+(0.0622)Ser+(-0.1177)His+(0.0009)Ala+(-0.2474)Met+(0.1748)Phe+(-0.1026)Trp;0.882,0.906,0.804,0.785,0.812,0.858,0.803,0.814,(0.7718)+(0.0609)Ser+(-0.1195)His+(-0.2422)Met+(0.0111)Orn+(0.1700)Phe+(-0.1017)Trp;0.882,0.905,0.799,0.771,0.809,0.852,0.813,0.811,(0.5016)+(0.0636)Ser+(-0.1239)His+(-0.2582)Met+(0.0196)Leu+(0.1610)Phe+(-0.1091)Trp;0.881,0.904,0.787,0.767,0.743,0.868,0.870,0.812,(-3.2208)+(0.0511)Ser+(-0.0642)Val+(-0.4837)Met+(0.2047)Ile+(0.1423)Phe;0.881,0.904,0.802,0.772,0.819,0.829,0.825,0.811,(4.6013)+(-0.1241)His+(0.0491)Thr+(-0.3361)Met+(0.0575)Ile+(0.1484)Phe+(-0.1339)Trp;0.881,0.904,0.805,0.787,0.811,0.852,0.806,0.814,(0.5622)+(0.0605)Ser+(-0.1208)His+(-0.2627)Met+(0.0083)Lys+(0.1749)Phe+(-0.1088)Trp;0.881,0.906,0.790,0.769,0.755,0.871,0.860,0.814,(-2.7772)+(0.0534)Ser+(-0.0583)Cit+(-0.0611)Val+(-0.4725)Met+(0.2025)Ile+(0.1483)Phe;0.881,0.903,0.805,0.784,0.812,0.856,0.807,0.815,(0.7259)+(0.0625)Ser+(-0.1217)His+(0.0048)Val+(-0.2448)Met+(0.1692)Phe+(-0.1064)Trp;0.881,0.902,0.798,0.784,0.760,0.859,0.869,0.818,(1.4747)+(-0.0872)Asn+(0.0451)Thr+(-0.0745)Val+(-0.4746)Met+(0.2248)Ile+(0.1468)Phe;0.880,0.904,0.810,0.792,0.812,0.857,0.817,0.819,(0.8210)+(0.0648)Ser+(-0.0022)Gly+(-0.1140)His+(-0.2398)Met+(0.1738)Phe+(-0.1039)Trp;0.880,0.905,0.809,0.792,0.817,0.858,0.800,0.817,(0.8548)+(0.0627)Ser+(-0.1030)His+(-0.0434)Cit+(-0.2268)Met+(0.1810)Phe+(-0.1120)Trp;0.880,0.902,0.804,0.783,0.783,0.880,0.849,0.824,(3.55

94)+(0.0437)Ser+(-0.0504)Cit+(-0.0373)Val+(-0.2208)Met+(0.1758)Ile+(-0.1170)Trp;0.880,0.901,0.798,0.783,0.774,0.878,0.833,0.817,(3.5083)+(0.0341)Ser+(0.0217)Thr+(-0.0447)Val+(-0.3282)Met+(0.1883)Ile+(-0.1110)Trp;0.880,0.900,0.831,0.825,0.800,0.853,0.898,0.844,(1.6131)+(0.0057)Gln+(-0.0525)Val+(-0.3431)Met+(0.1808)Ile+(0.1304)Phe+(-0.1173)Trp;0.880,0.904,0.789,0.773,0.750,0.855,0.866,0.811,(1.3300)+(0.0530)Ser+(-0.1787)Asn+(-0.0502)Val+(0.1586)Ile+(0.1013)Phe+(-0.1205)Trp;0.879,0.903,0.784,0.768,0.742,0.863,0.861,0.808,(-3.3275)+(0.0510)Ser+(-0.0566)Val+(-0.4745)Met+(0.2287)Ile+(-0.0295)Leu+(0.1461)Phe;0.879,0.906,0.789,0.765,0.751,0.871,0.874,0.815,(-3.4771)+(0.0531)Ser+(0.0228)Tyr+(-0.0672)Val+(-0.5232)Met+(0.2117)Ile+(0.1378)Phe;0.878,0.897,0.812,0.796,0.830,0.832,0.800,0.815,(5.1467)+(-0.1179)His+(0.0505)Thr+(-0.3103)Met+(0.1690)Phe+(-0.1253)Trp;0.878,0.903,0.801,0.777,0.813,0.835,0.817,0.811,(-1.3020)+(0.0581)Ser+(-0.0917)Cit+(-0.3118)Met+(0.0708)Ile+(0.1355)Phe+(-0.1702)Trp;0.878,0.905,0.782,0.763,0.741,0.862,0.860,0.807,(-3.2369)+(0.0521)Ser+(0.0053)Pro+(-0.0643)Val+(-0.4981)Met+(0.1980)Ile+(0.1419)Phe;0.878,0.904,0.807,0.792,0.812,0.857,0.802,0.816,(0.8772)+(0.0632)Ser+(-0.1150)His+(-0.0075)Arg+(-0.2326)Met+(0.1756)Phe+(-0.1014)Trp;0.878,0.898,0.758,0.725,0.747,0.823,0.821,0.779,(1.1231)+(0.0472)Ser+(-0.1274)His+(0.1065)Ile+(-0.0390)Leu+(0.1044)Phe+(-0.1281)Trp;0.877,0.903,0.807,0.797,0.795,0.855,0.824,0.818,(1.0488)+(0.0524)Ser+(-0.1170)Asn+(0.0077)Gln+(-0.1332)His+(0.1277)Phe+(-0.1078)Trp;0.877,0.900,0.754,0.707,0.768,0.840,0.783,0.775,(-1.3972)+(0.0567)Ser+(-0.1699)His+(0.0295)Thr+(-0.4330)Met+(0.0672)Ile+(0.1506)Phe;0.877,0.904,0.782,0.761,0.740,0.865,0.866,0.808,(-2.9436)+(0.0528)Ser+(-0.0012)Gln+(-0.0642)Val+(-0.4767)Met+(0.2056)Ile+(0.1425)Phe;0.877,0.900,0.812,0.798,0.791,0.876,0.848,0.828,(6.5712)+(0.0336)Thr+(-0.0519)Cit+(-0.0438)Val+(-0.2732)Met+(0.1832)Ile+(-0.1144)Trp;0.877,0.903

,0.819,0.801,0.795,0.849,0.894,0.835,(4.9139)+(-0.0543)His+(-0.0452)Val+(-0.2526)Met+(0.1687)Ile+(0.1312)Phe+(-0.0958)Trp;0.877,0.900,0.797,0.784,0.755,0.863,0.875,0.819,(0.3843)+(0.0393)Thr+(-0.0042)Ala+(-0.0697)Val+(-0.5055)Met+(0.2222)Ile+(0.1346)Phe;0.877,0.899,0.803,0.787,0.768,0.879,0.865,0.824,(3.2446)+(0.0417)Ser+(-0.0046)Ala+(-0.0407)Val+(-0.2260)Met+(0.1885)Ile+(-0.1079)Trp;0.877,0.896,0.806,0.783,0.828,0.827,0.804,0.811,(5.1385)+(-0.1262)His+(0.0512)Thr+(-0.3199)Met+(0.0154)Leu+(0.1582)Phe+(-0.1315)Trp;0.877,0.895,0.811,0.802,0.778,0.873,0.862,0.828,(6.3171)+(0.0318)Thr+(-0.0048)Ala+(-0.0466)Val+(-0.2706)Met+(0.1948)Ile+(-0.1108)Trp;0.877,0.901,0.770,0.737,0.753,0.844,0.841,0.794,(1.5645)+(0.0502)Ser+(-0.1331)His+(-0.0071)Ala+(0.0682)Ile+(0.1022)Phe+(-0.1303)Trp;0.877,0.904,0.787,0.767,0.744,0.867,0.870,0.812,(-3.2265)+(0.0513)Ser+(-0.0640)Val+(-0.4840)Met+(-0.0021)Orn+(0.2050)Ile+(0.1430)Phe;0.876,0.899,0.796,0.776,0.772,0.871,0.847,0.817,(3.1391)+(0.0431)Ser+(0.0063)Pro+(-0.0420)Val+(-0.2707)Met+(0.1750)Ile+(-0.1119)Trp;0.876,0.896,0.800,0.782,0.782,0.859,0.843,0.817,(7.1237)+(-0.0566)His+(0.0346)Thr+(-0.0375)Val+(-0.2613)Met+(0.1722)Ile+(-0.0947)Trp;0.876,0.900,0.789,0.772,0.802,0.820,0.788,0.796,(-1.7780)+(0.0469)Ser+(0.0220)Thr+(-0.4185)Met+(0.0601)Ile+(0.1200)Phe+(-0.1623)Trp;0.876,0.900,0.814,0.814,0.828,0.840,0.768,0.812,(0.3731)+(0.0463)Ser+(-0.0799)Asn+(0.0272)Thr+(-0.3209)Met+(0.1461)Phe+(-0.1531)Trp;0.876,0.898,0.813,0.799,0.830,0.833,0.801,0.816,(5.1380)+(-0.1164)His+(0.0508)Thr+(-0.0016)Val+(-0.3109)Met+(0.1713)Phe+(-0.1240)Trp;0.876,0.898,0.781,0.748,0.787,0.859,0.796,0.798,(4.0210)+(0.0445)Ser+(-0.1021)His+(0.0220)Thr+(-0.2402)Met+(0.0941)Ile+(-0.1075)Trp;0.876,0.898,0.804,0.786,0.774,0.882,0.856,0.824,(3.7945)+(0.0469)Ser+(-0.0611)Asn+(-0.0421)Val+(-0.2051)Met+(0.1806)Ile+(-0.1024)Trp;0.876,0.899,0.803,0.783,0.772,0.871,0.868,0.824,(3.1847)+(0.0513)Ser+(-0.0059)Gly+(-0.04

07)Val+(-0.2496)Met+(0.1795)Ile+(-0.1110)Trp;0.876,0.898,0.815,0.806,0.785,0.847,0.882,0.830,(3.0411)+(0.0040)Gly+(-0.0542)Val+(-0.3097)Met+(0.1869)Ile+(0.1305)Phe+(-0.1123)Trp;0.876,0.899,0.777,0.739,0.777,0.852,0.825,0.798,(-3.0222)+(0.0578)Ser+(0.0068)Gln+(-0.1683)His+(-0.3616)Met+(0.0626)Ile+(0.1415)Phe;0.876,0.900,0.792,0.772,0.765,0.863,0.851,0.813,(0.6553)+(0.0436)Thr+(-0.0620)Cit+(-0.0694)Val+(-0.5305)Met+(0.2201)Ile+(0.1426)Phe;0.875,0.898,0.808,0.802,0.833,0.838,0.750,0.806,(0.0690)+(0.0437)Ser+(0.0320)Thr+(-0.0895)Cit+(-0.3650)Met+(0.1686)Phe+(-0.1704)Trp;0.875,0.896,0.820,0.810,0.789,0.844,0.895,0.835,(3.7150)+(-0.0537)Val+(-0.2954)Met+(0.1852)Ile+(0.1259)Phe+(-0.1109)Trp;0.875,0.895,0.789,0.774,0.751,0.853,0.860,0.810,(0.1159)+(0.0397)Thr+(-0.0717)Val+(-0.5387)Met+(0.2196)Ile+(0.1380)Phe;0.875,0.898,0.810,0.795,0.828,0.831,0.799,0.813,(5.0416)+(0.0077)Asn+(-0.1194)His+(0.0503)Thr+(-0.3161)Met+(0.1699)Phe+(-0.1255)Trp;0.875,0.899,0.825,0.817,0.787,0.854,0.906,0.841,(3.9291)+(-0.0044)Ala+(-0.0534)Val+(-0.2665)Met+(0.1920)Ile+(0.1248)Phe+(-0.1088)Trp;0.875,0.897,0.794,0.778,0.763,0.875,0.845,0.815,(4.6063)+(0.0465)Ser+(-0.1092)Asn+(-0.0635)Cit+(-0.0374)Val+(0.1596)Ile+(-0.1266)Trp;0.875,0.899,0.781,0.761,0.783,0.844,0.786,0.793,(2.7059)+(0.0543)Ser+(-0.1114)Asn+(-0.1258)His+(0.0185)Thr+(0.1304)Phe+(-0.1179)Trp;0.875,0.903,0.785,0.768,0.746,0.863,0.855,0.808,(-3.1220)+(0.0548)Ser+(-0.0162)Arg+(-0.0640)Val+(-0.4578)Met+(0.2053)Ile+(0.1464)Phe;0.875,0.898,0.806,0.793,0.824,0.832,0.786,0.809,(4.7360)+(0.0034)Gly+(-0.1236)His+(0.0487)Thr+(-0.3151)Met+(0.1724)Phe+(-0.1208)Trp;0.875,0.904,0.786,0.767,0.743,0.868,0.870,0.812,(-3.2133)+(0.0512)Ser+(-0.0641)Val+(-0.4828)Met+(-0.0003)Lys+(0.2046)Ile+(0.1423)Phe;0.875,0.895,0.798,0.781,0.770,0.873,0.849,0.818,(3.1269)+(0.0422)Ser+(-0.0412)Val+(-0.2543)Met+(0.1807)Ile+(-0.1110)Trp;0.875,0.895,0.792,0.776,0.753,0.867,0.864,0.815,(3.8125)+(0.0350)Ser+(-0

.0086)Ala+(-0.0759)Cit+(-0.0342)Val+(0.1732)Ile+(-0.1444)Trp;0.875,0.898,0.808,0.792,0.825,0.827,0.799,0.811,(5.0167)+(-0.1163)His+(0.0493)Thr+(0.0042)Pro+(-0.3173)Met+(0.1656)Phe+(-0.1257)Trp;0.874,0.892,0.811,0.795,0.789,0.870,0.856,0.827,(5.8798)+(0.0306)Thr+(0.0275)Tyr+(-0.0494)Val+(-0.3312)Met+(0.1907)Ile+(-0.1191)Trp;0.874,0.898,0.811,0.797,0.829,0.831,0.799,0.814,(5.1472)+(-0.1179)His+(0.0507)Thr+(-0.0017)Tyr+(-0.3085)Met+(0.1695)Phe+(-0.1249)Trp;0.874,0.898,0.788,0.761,0.770,0.865,0.842,0.810,(3.8623)+(0.0473)Ser+(-0.0629)His+(-0.0301)Val+(-0.2091)Met+(0.1648)Ile+(-0.0919)Trp;0.874,0.898,0.792,0.790,0.806,0.814,0.751,0.790,(-1.0344)+(0.0456)Ser+(0.0230)Thr+(0.0098)Pro+(-0.4138)Met+(0.1413)Phe+(-0.1577)Trp;0.874,0.895,0.788,0.774,0.751,0.854,0.859,0.809,(0.0531)+(0.0005)Gly+(0.0394)Thr+(-0.0716)Val+(-0.5394)Met+(0.2193)Ile+(0.1383)Phe;0.874,0.897,0.812,0.798,0.830,0.831,0.801,0.815,(5.1552)+(-0.1177)His+(0.0509)Thr+(-0.3113)Met+(-0.0016)Orn+(0.1700)Phe+(-0.1256)Trp;0.874,0.896,0.754,0.722,0.735,0.823,0.828,0.777,(1.3999)+(0.0456)Ser+(-0.1187)His+(-0.0254)Val+(0.1124)Ile+(0.1002)Phe+(-0.1271)Trp;0.874,0.895,0.768,0.727,0.765,0.852,0.820,0.791,(-1.5196)+(0.0660)Ser+(-0.1481)His+(-0.0042)Ala+(-0.3256)Met+(0.0732)Ile+(0.1382)Phe;0.873,0.897,0.812,0.814,0.827,0.835,0.756,0.808,(-0.1619)+(0.0395)Ser+(0.0286)Thr+(-0.0081)Val+(-0.3801)Met+(0.1583)Phe+(-0.1520)Trp;0.873,0.895,0.802,0.787,0.773,0.876,0.850,0.821,(3.6154)+(0.0371)Ser+(-0.0090)Ala+(-0.0871)Cit+(0.1770)Ile+(-0.0599)Leu+(-0.1475)Trp;0.873,0.897,0.812,0.798,0.829,0.832,0.800,0.815,(5.1575)+(-0.1177)His+(0.0505)Thr+(-0.0002)Ala+(-0.3093)Met+(0.1691)Phe+(-0.1253)Trp;0.873,0.896,0.799,0.783,0.771,0.872,0.851,0.819,(3.0224)+(0.0410)Ser+(-0.0428)Val+(-0.2747)Met+(0.0061)Lys+(0.1815)Ile+(-0.1138)Trp;0.873,0.891,0.804,0.793,0.778,0.865,0.845,0.820,(6.1068)+(0.0314)Thr+(-0.0472)Val+(-0.2968)Met+(0.1870)Ile+(-

0.1123)Trp;0.873,0.897,0.810,0.795,0.829,0.825,0.801,0.812,(4.9661)+(-0.1202)His+(0.0488)Thr+(-0.3182)Met+(0.0049)Lys+(0.1679)Phe+(-0.1273)Trp;0.873,0.896,0.821,0.812,0.790,0.844,0.896,0.836,(3.8662)+(-0.0081)Asn+(-0.0538)Val+(-0.2881)Met+(0.1849)Ile+(0.1257)Phe+(-0.1096)Trp;0.873,0.897,0.811,0.799,0.833,0.830,0.787,0.812,(5.5816)+(-0.1144)His+(0.0550)Thr+(-0.0157)Arg+(-0.3019)Met+(0.1705)Phe+(-0.1270)Trp;0.873,0.896,0.801,0.784,0.773,0.874,0.851,0.821,(2.9282)+(0.0409)Ser+(0.0009)Gln+(-0.0410)Val+(-0.2589)Met+(0.1794)Ile+(-0.1121)Trp;0.873,0.898,0.818,0.808,0.788,0.842,0.891,0.832,(3.7193)+(0.0050)Pro+(-0.0540)Val+(-0.3080)Met+(0.1806)Ile+(0.1269)Phe+(-0.1125)Trp;0.873,0.900,0.837,0.818,0.833,0.859,0.882,0.848,(2.0349)+(0.0121)Gln+(-0.1284)His+(-0.2378)Met+(0.0584)Ile+(0.1200)Phe+(-0.1165)Trp;0.873,0.894,0.802,0.801,0.821,0.824,0.749,0.799,(-0.5508)+(0.0412)Ser+(0.0255)Thr+(-0.3787)Met+(0.1449)Phe+(-0.1587)Trp;0.873,0.894,0.796,0.777,0.771,0.871,0.843,0.816,(3.1019)+(0.0405)Ser+(-0.0430)Val+(-0.2624)Met+(0.0147)Orn+(0.1798)Ile+(-0.1110)Trp;0.873,0.898,0.769,0.735,0.765,0.837,0.822,0.790,(1.7038)+(0.0588)Ser+(-0.0844)Asn+(-0.1247)His+(0.0537)Ile+(0.1038)Phe+(-0.1227)Trp;0.872,0.895,0.789,0.774,0.751,0.853,0.860,0.809,(0.1187)+(0.0392)Thr+(-0.0702)Val+(-0.5356)Met+(0.2227)Ile+(-0.0048)Leu+(0.1384)Phe;0.872,0.897,0.808,0.807,0.808,0.826,0.795,0.809,(-0.3872)+(0.0586)Ser+(-0.0695)Asn+(0.0110)Pro+(-0.2845)Met+(0.1316)Phe+(-0.1409)Trp

[0331] ［実施例２で探索された線形判別式の一覧（その１）］

以下に、前述した実施例２で探索された線形判別式を列挙する。なお、式の前には、その式について得られた、「バリデーション有りでの膵臓癌群と健常群のＲＯＣ＿ＡＵＣの値」、「バリデーション無しでの膵臓癌群と健常群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と他癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と大腸癌群のＲＯ

Ｃ＿ＡＵＣの値」、「膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣの値」、および「膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣの値の平均値」を、さらに列挙する。

[0332] 0.912,0.926,0.816,0.798,0.795,0.864,0.874,0.833,(-1.0207)+(0.0564)Ser+(-0.0410)Val+(-0.4144)Met+(0.1407)Ile+(0.1786)Phe+(-0.1154)Trp;0.910,0.923,0.800,0.780,0.816,0.856,0.776,0.807,(1.2502)+(0.0519)Ser+(-0.1044)His+(0.0391)Thr+(-0.3808)Met+(0.2058)Phe+(-0.1332)Trp;0.906,0.919,0.815,0.803,0.802,0.853,0.847,0.826,(2.7689)+(0.0555)Thr+(-0.0511)Val+(-0.5140)Met+(0.1555)Ile+(0.1792)Phe+(-0.1223)Trp;0.904,0.920,0.812,0.798,0.800,0.846,0.847,0.823,(-1.2604)+(0.0530)Ser+(-0.3551)Met+(0.1373)Ile+(-0.0676)Leu+(0.1759)Phe+(-0.1399)Trp;0.903,0.919,0.782,0.749,0.760,0.870,0.853,0.808,(-1.6453)+(0.0604)Ser+(-0.0790)His+(-0.0373)Val+(-0.4011)Met+(0.1385)Ile+(0.1636)Phe;0.902,0.918,0.796,0.762,0.801,0.856,0.831,0.813,(-0.1304)+(0.0660)Ser+(-0.0940)His+(-0.3073)Met+(0.0543)Ile+(0.1677)Phe+(-0.1190)Trp;0.901,0.917,0.781,0.760,0.753,0.860,0.839,0.803,(-2.7861)+(0.0400)Ser+(0.0326)Thr+(-0.0608)Val+(-0.5850)Met+(0.1830)Ile+(0.1702)Phe;0.900,0.914,0.824,0.813,0.821,0.868,0.828,0.833,(-0.3399)+(0.0555)Ser+(0.0065)Gln+(-0.0993)His+(-0.2838)Met+(0.1822)Phe+(-0.1212)Trp;0.898,0.912,0.789,0.763,0.776,0.851,0.839,0.807,(2.3150)+(-0.0751)His+(0.0555)Thr+(-0.0488)Val+(-0.4979)Met+(0.1558)Ile+(0.1591)Phe;0.897,0.911,0.828,0.820,0.837,0.842,0.822,0.830,(2.6477)+(0.0093)Gln+(-0.1101)His+(0.0480)Thr+(-0.3592)Met+(0.1701)Phe+(-0.1325)Trp;0.896,0.909,0.814,0.800,0.818,0.858,0.809,0.821,(1.4707)+(0.0650)Ser+(-0.0399)Asn+(-0.0828)His+(-0.2276)Met+(0.1831)Phe+(-0.1217)Trp;0.895,0.908,0.807,0.791,0.813,0.856,0.804,0.816,(1.0068)+(0.0630)Ser+(-0.0875)His+(-0.2579)Met+(0.1830)Phe+(-0.1207)Trp;0.895,0.9

11,0.813,0.791,0.824,0.864,0.814,0.823,(0.7601)+(0.0642)Ser+(-0.0885)His+(0.0236)Tyr+(-0.2880)Met+(0.1795)Phe+(-0.1278)Trp;0.895,0.911,0.812,0.801,0.783,0.855,0.870,0.827,(2.8531)+(0.0444)Ser+(-0.1615)Asn+(-0.0336)Val+(0.0949)Ile+(0.1195)Phe+(-0.1303)Trp;0.895,0.910,0.798,0.781,0.751,0.878,0.886,0.824,(-2.2067)+(0.0513)Ser+(-0.0059)Ala+(-0.0514)Val+(-0.4276)Met+(0.1741)Ile+(0.1473)Phe;0.895,0.911,0.801,0.780,0.808,0.853,0.805,0.812,(0.6315)+(0.0639)Ser+(-0.0888)His+(0.0082)Pro+(-0.2857)Met+(0.1818)Phe+(-0.1202)Trp;0.894,0.912,0.798,0.783,0.758,0.867,0.869,0.819,(-1.5328)+(0.0563)Ser+(-0.0818)Asn+(-0.0541)Val+(-0.3937)Met+(0.1667)Ile+(0.1569)Phe;0.894,0.909,0.811,0.796,0.817,0.858,0.802,0.818,(1.1779)+(0.0634)Ser+(-0.0818)His+(-0.0228)Cit+(-0.2535)Met+(0.1837)Phe+(-0.1223)Trp;0.894,0.908,0.808,0.792,0.813,0.856,0.804,0.816,(1.0402)+(0.0632)Ser+(-0.0871)His+(-0.2558)Met+(-0.0009)Lys+(0.1834)Phe+(-0.1204)Trp;0.893,0.908,0.806,0.789,0.813,0.852,0.800,0.814,(0.9480)+(0.0631)Ser+(-0.0881)His+(0.0006)Ala+(-0.2617)Met+(0.1834)Phe+(-0.1213)Trp;0.893,0.909,0.800,0.777,0.808,0.853,0.807,0.811,(0.7256)+(0.0651)Ser+(-0.0952)His+(-0.2689)Met+(0.0129)Leu+(0.1735)Phe+(-0.1209)Trp;0.893,0.908,0.806,0.788,0.813,0.856,0.804,0.815,(0.9375)+(0.0634)Ser+(-0.0899)His+(0.0018)Val+(-0.2577)Met+(0.1809)Phe+(-0.1216)Trp;0.893,0.908,0.811,0.795,0.815,0.855,0.815,0.820,(1.1251)+(0.0658)Ser+(-0.0023)Gly+(-0.0856)His+(-0.2575)Met+(0.1816)Phe+(-0.1211)Trp;0.892,0.909,0.791,0.767,0.752,0.860,0.887,0.816,(-2.4043)+(0.0586)Ser+(-0.0057)Gly+(-0.0530)Val+(-0.4602)Met+(0.1686)Ile+(0.1487)Phe;0.892,0.908,0.815,0.804,0.804,0.854,0.838,0.825,(2.1627)+(0.0471)Ser+(-0.1168)Asn+(0.0059)Gln+(-0.0954)His+(0.1334)Phe+(-0.1287)Trp;0.892,0.907,0.784,0.762,0.748,0.860,0.860,0.807,(-2.7343)+(0.0512)Ser+(-0.0535)Val+(-0.4634)Met+(0.1686)Ile+(0.1515)Phe;0.892,0.908,0.784,0.764,0.748,0.860,0.857,0.807,(-2.7747)+(0.0506)Ser+(-0.0498)Val+(-0.4593)Met+(0.

1763)Ile+(-0.0120)Leu+(0.1538)Phe;0.892,0.908,0.808,0.793,0.814,0.856,0.801,0.816,(1.0417)+(0.0637)Ser+(-0.0871)His+(-0.0031)Arg+(-0.2535)Met+(0.1829)Phe+(-0.1201)Trp;0.891,0.909,0.805,0.788,0.811,0.856,0.802,0.814,(0.8987)+(0.0622)Ser+(-0.0896)His+(-0.2581)Met+(0.0100)Orn+(0.1790)Phe+(-0.1200)Trp;0.890,0.908,0.781,0.760,0.746,0.858,0.858,0.805,(-2.7988)+(0.0513)Ser+(0.0023)Pro+(-0.0534)Val+(-0.4692)Met+(0.1662)Ile+(0.1516)Phe;0.889,0.908,0.785,0.761,0.753,0.863,0.857,0.809,(-2.4869)+(0.0531)Ser+(-0.0401)Cit+(-0.0510)Val+(-0.4534)Met+(0.1694)Ile+(0.1506)Phe;0.889,0.909,0.785,0.760,0.752,0.865,0.865,0.810,(-2.9300)+(0.0517)Ser+(0.0129)Tyr+(-0.0546)Val+(-0.4830)Met+(0.1714)Ile+(0.1491)Phe;0.888,0.906,0.780,0.758,0.745,0.858,0.859,0.805,(-2.4649)+(0.0528)Ser+(-0.0012)Gln+(-0.0535)Val+(-0.4582)Met+(0.1693)Ile+(0.1524)Phe;0.888,0.906,0.785,0.765,0.747,0.859,0.862,0.808,(-2.7176)+(0.0518)Ser+(-0.0532)Val+(-0.4646)Met+(-0.0055)Orn+(0.1704)Ile+(0.1529)Phe;0.888,0.903,0.799,0.788,0.760,0.864,0.864,0.819,(1.2361)+(0.0468)Thr+(-0.0057)Ala+(-0.0605)Val+(-0.5055)Met+(0.1871)Ile+(0.1435)Phe;0.887,0.903,0.799,0.785,0.770,0.856,0.854,0.816,(2.0233)+(-0.0687)Asn+(0.0503)Thr+(-0.0636)Val+(-0.4866)Met+(0.1810)Ile+(0.1515)Phe;0.887,0.903,0.810,0.804,0.789,0.834,0.849,0.819,(2.1560)+(0.0423)Ser+(-0.1386)Asn+(0.1029)Ile+(-0.0610)Leu+(0.1253)Phe+(-0.1484)Trp;0.887,0.904,0.814,0.790,0.798,0.885,0.861,0.834,(3.2556)+(0.0393)Ser+(0.0476)Tyr+(-0.0321)Val+(-0.3074)Met+(0.1395)Ile+(-0.0999)Trp;0.887,0.905,0.802,0.781,0.813,0.833,0.812,0.810,(-0.7602)+(0.0589)Ser+(-0.0644)Cit+(-0.3340)Met+(0.0567)Ile+(0.1461)Phe+(-0.1536)Trp;0.887,0.904,0.766,0.728,0.761,0.848,0.817,0.788,(-1.8629)+(0.0597)Ser+(-0.1027)His+(-0.3399)Met+(0.1177)Ile+(-0.0470)Leu+(0.1542)Phe;0.887,0.907,0.784,0.763,0.750,0.861,0.855,0.807,(-2.5250)+(0.0533)Ser+(-0.0519)Val+(-0.4475)Met+(-0.0066)Lys+(0.1685)Ile+(0.1528)Phe;0.887,0.903,0.795,0.767,0.815,0.822,0.807,0

.803,(4.6094)+(-0.0974)His+(0.0547)Thr+(-0.3593)Met+(0.0451)Ile+(0.1510)Phe+(-0.1313)Trp;0.887,0.901,0.806,0.803,0.819,0.831,0.769,0.806,(0.8909)+(0.0495)Ser+(-0.0804)Asn+(0.0274)Thr+(-0.3250)Met+(0.1731)Phe+(-0.1660)Trp;0.887,0.902,0.804,0.791,0.784,0.886,0.823,0.821,(4.4196)+(0.0274)Ser+(0.0224)Thr+(-0.0324)Val+(-0.3009)Met+(0.1397)Ile+(-0.0907)Trp;0.886,0.905,0.844,0.843,0.816,0.856,0.897,0.853,(2.0355)+(0.0066)Gln+(-0.0397)Val+(-0.3168)Met+(0.1284)Ile+(0.1311)Phe+(-0.1090)Trp;0.886,0.900,0.804,0.806,0.818,0.825,0.758,0.802,(0.4259)+(0.0430)Ser+(0.0297)Thr+(-0.0105)Val+(-0.3931)Met+(0.1880)Phe+(-0.1582)Trp;0.886,0.899,0.796,0.778,0.794,0.846,0.812,0.808,(3.1351)+(0.0540)Ser+(-0.1002)Asn+(-0.0861)His+(0.1369)Phe+(-0.1276)Trp;0.886,0.902,0.809,0.789,0.793,0.883,0.841,0.827,(4.2488)+(0.0388)Ser+(-0.0459)Cit+(-0.0260)Val+(-0.2229)Met+(0.1326)Ile+(-0.0884)Trp;0.885,0.901,0.787,0.767,0.767,0.855,0.831,0.805,(1.0928)+(0.0508)Thr+(-0.0475)Cit+(-0.0603)Val+(-0.5411)Met+(0.1843)Ile+(0.1481)Phe;0.885,0.902,0.803,0.795,0.827,0.833,0.749,0.801,(0.5012)+(0.0459)Ser+(0.0317)Thr+(-0.0619)Cit+(-0.3861)Met+(0.1783)Phe+(-0.1682)Trp;0.885,0.903,0.778,0.748,0.758,0.852,0.842,0.800,(2.1169)+(0.0446)Ser+(-0.1004)His+(-0.0073)Ala+(0.0451)Ile+(0.1020)Phe+(-0.1174)Trp;0.885,0.898,0.786,0.772,0.756,0.849,0.842,0.805,(0.7111)+(0.0469)Thr+(-0.0625)Val+(-0.5409)Met+(0.1818)Ile+(0.1477)Phe;0.885,0.905,0.783,0.764,0.750,0.858,0.849,0.805,(-2.5667)+(0.0542)Ser+(-0.0117)Arg+(-0.0530)Val+(-0.4456)Met+(0.1685)Ile+(0.1517)Phe;0.885,0.902,0.793,0.775,0.794,0.844,0.803,0.804,(3.5394)+(0.0482)Ser+(-0.1125)Asn+(-0.0924)His+(0.0136)Thr+(0.1363)Phe+(-0.1331)Trp;0.885,0.901,0.813,0.800,0.800,0.883,0.826,0.827,(6.9234)+(0.0383)Thr+(-0.0519)Cit+(-0.0325)Val+(-0.2896)Met+(0.1428)Ile+(-0.0934)Trp;0.885,0.902,0.787,0.769,0.803,0.816,0.782,0.793,(-1.1723)+(0.0475)Ser+(0.0242)Thr+(-0.4228)Met+(0.0442)Ile+(0.1547)Phe+(-0.1668)Trp;0.885,0.900,0.788

,0.782,0.805,0.809,0.754,0.788,(-0.4771)+(0.0461)Ser+(0.0245)Thr+(0.0063)Pro+(-0.4030)Met+(0.1676)Phe+(-0.1663)Trp;0.884,0.898,0.786,0.772,0.756,0.850,0.842,0.805,(0.7556)+(-0.0003)Gly+(0.0471)Thr+(-0.0625)Val+(-0.5408)Met+(0.1819)Ile+(0.1475)Phe;0.884,0.901,0.762,0.726,0.760,0.832,0.808,0.782,(2.0817)+(0.0488)Ser+(-0.1010)His+(-0.0148)Lys+(0.0398)Ile+(0.1108)Phe+(-0.1212)Trp;0.884,0.901,0.786,0.772,0.761,0.849,0.828,0.803,(1.1646)+(0.0531)Thr+(-0.0168)Arg+(-0.0631)Val+(-0.5324)Met+(0.1839)Ile+(0.1497)Phe;0.884,0.900,0.785,0.772,0.756,0.842,0.843,0.803,(0.8173)+(0.0536)Thr+(-0.0628)Val+(-0.5701)Met+(-0.0240)Orn+(0.1923)Ile+(0.1576)Phe;0.884,0.900,0.807,0.800,0.807,0.814,0.821,0.811,(2.6359)+(0.0383)Thr+(-0.3763)Met+(0.1339)Ile+(-0.0707)Leu+(0.1592)Phe+(-0.1470)Trp;0.884,0.901,0.844,0.832,0.839,0.854,0.880,0.851,(2.0499)+(0.0118)Gln+(-0.0940)His+(-0.2274)Met+(0.0420)Ile+(0.1165)Phe+(-0.1146)Trp;0.884,0.900,0.765,0.736,0.756,0.822,0.820,0.783,(1.7752)+(0.0391)Ser+(-0.0937)His+(0.0719)Ile+(-0.0325)Leu+(0.1113)Phe+(-0.1251)Trp;0.884,0.898,0.804,0.790,0.826,0.817,0.786,0.805,(5.3455)+(-0.0929)His+(0.0545)Thr+(-0.3233)Met+(0.1661)Phe+(-0.1329)Trp;0.884,0.899,0.788,0.775,0.757,0.849,0.843,0.806,(0.4472)+(0.0008)Gln+(0.0460)Thr+(-0.0623)Val+(-0.5433)Met+(0.1812)Ile+(0.1473)Phe;0.883,0.899,0.804,0.789,0.796,0.857,0.820,0.816,(3.2583)+(0.0541)Ser+(-0.0948)Asn+(-0.0836)His+(-0.0025)Ala+(0.1386)Phe+(-0.1244)Trp;0.883,0.901,0.784,0.757,0.780,0.839,0.824,0.800,(2.6411)+(0.0537)Ser+(-0.1017)Asn+(-0.0912)His+(0.0314)Ile+(0.1210)Phe+(-0.1273)Trp;0.883,0.900,0.797,0.782,0.795,0.846,0.809,0.808,(3.2209)+(0.0557)Ser+(-0.0944)Asn+(-0.0840)His+(-0.0055)Lys+(0.1410)Phe+(-0.1256)Trp;0.883,0.899,0.798,0.782,0.794,0.848,0.812,0.809,(3.1873)+(0.0539)Ser+(-0.1013)Asn+(-0.0845)His+(-0.0011)Val+(0.1384)Phe+(-0.1271)Trp;0.883,0.899,0.814,0.800,0.780,0.890,0.869,0.835,(4.1970)+(0.0368)Ser+(-0.0056)Ala+(-0.0282)Val+(-0.2090)Met+(0.

1393)Ile+(-0.0803)Trp;0.883,0.898,0.794,0.776,0.791,0.844,0.811,0.806,(3.0890)+(0.0538)Ser+(-0.1016)Asn+(-0.0866)His+(0.0020)Pro+(0.1351)Phe+(-0.1277)Trp;0.883,0.898,0.798,0.782,0.819,0.815,0.786,0.800,(5.1658)+(-0.0933)His+(0.0540)Thr+(0.0051)Pro+(-0.3376)Met+(0.1643)Phe+(-0.1324)Trp;0.883,0.900,0.762,0.729,0.754,0.826,0.821,0.782,(1.9680)+(0.0396)Ser+(-0.0956)His+(-0.0123)Val+(0.0554)Ile+(0.1032)Phe+(-0.1204)Trp;0.883,0.898,0.784,0.757,0.792,0.862,0.785,0.799,(5.0116)+(0.0365)Ser+(-0.0816)His+(0.0226)Thr+(-0.2202)Met+(0.0714)Ile+(-0.0924)Trp;0.883,0.901,0.792,0.773,0.791,0.847,0.806,0.804,(3.0109)+(0.0532)Ser+(-0.1029)Asn+(-0.0884)His+(0.0136)Orn+(0.1319)Phe+(-0.1267)Trp;0.883,0.900,0.786,0.770,0.757,0.851,0.841,0.805,(1.0460)+(0.0493)Thr+(-0.0614)Val+(-0.5303)Met+(-0.0066)Lys+(0.1825)Ile+(0.1493)Phe;0.883,0.903,0.829,0.818,0.807,0.849,0.892,0.842,(5.0397)+(-0.0326)His+(-0.0343)Val+(-0.2336)Met+(0.1210)Ile+(0.1

267)Phe+(-0.0933)Trp;0.882,0.899,0.785,0.773,0.754,0.849,0.837,0.803,(0.7801)+(0.0474)Thr+(-0.0075)Tyr+(-0.0620)Val+(-0.5326)Met+(0.1806)Ile+(0.1498)Phe;0.882,0.898,0.786,0.772,0.756,0.849,0.842,0.805,(0.7094)+(0.0469)Thr+(0.0001)Pro+(-0.0625)Val+(-0.5411)Met+(0.1817)Ile+(0.1477)Phe;0.882,0.899,0.786,0.771,0.756,0.849,0.842,0.805,(0.7287)+(0.0475)Thr+(-0.0642)Val+(-0.5450)Met+(0.1789)Ile+(0.0050)Leu+(0.1471)Phe;0.882,0.899,0.805,0.789,0.807,0.829,0.823,0.812,(-0.2954)+(0.0595)Ser+(-0.0653)Asn+(-0.2876)Met+(0.0433)Ile+(0.1463)Phe+(-0.1537)Trp;0.882,0.900,0.819,0.814,0.793,0.847,0.868,0.830,(3.2539)+(0.0061)Gly+(-0.0409)Val+(-0.2897)Met+(0.1335)Ile+(0.1368)Phe+(-0.1032)Trp;0.882,0.898,0.798,0.780,0.795,0.846,0.817,0.809,(3.2007)+(0.0557)Ser+(-0.0993)Asn+(-0.0015)Gly+(-0.0850)His+(0.1359)Phe+(-0.1279)Trp;0.882,0.900,0.741,0.695,0.759,0.833,0.763,0.762,(-1.5427)+(0.0550)Ser+(-0.1392)His+(0.0297)Thr+(-0.4182)Met+(0.0553)Ile+(0.1512)Phe;0.882,0.895,0.805,0.7

88,0.782,0.876,0.844,0.823,(3.9518)+(0.0364)Ser+(-0.0291)Val+(-0.2346)Met+(0.1321)Ile+(-0.0863)Trp;0.882,0.896,0.757,0.720,0.757,0.824,0.805,0.776,(1.8875)+(0.0428)Ser+(-0.1075)His+(0.0302)Ile+(0.1017)Phe+(-0.1267)Trp;0.882,0.897,0.821,0.819,0.827,0.839,0.801,0.821,(1.3070)+(0.0603)Ser+(-0.0728)Asn+(-0.0484)Cit+(-0.2247)Met+(0.1651)Phe+(-0.1517)Trp;0.882,0.896,0.808,0.803,0.811,0.825,0.804,0.811,(0.4379)+(0.0587)Ser+(-0.0718)Asn+(0.0068)Pro+(-0.2643)Met+(0.1589)Phe+(-0.1529)Trp;0.882,0.898,0.811,0.798,0.786,0.876,0.849,0.827,(5.8199)+(0.0366)Ser+(-0.1098)Asn+(-0.0498)Cit+(-0.0238)Val+(0.1071)Ile+(-0.1023)Trp;0.882,0.896,0.794,0.791,0.813,0.811,0.753,0.792,(-0.1750)+(0.0452)Ser+(0.0255)Thr+(-0.3843)Met+(0.1693)Phe+(-0.1668)Trp;0.882,0.899,0.797,0.784,0.820,0.822,0.766,0.798,(4.7434)+(0.0043)Gly+(-0.0969)His+(0.0516)Thr+(-0.3247)Met+(0.1714)Phe+(-0.1316)Trp;0.882,0.899,0.793,0.774,0.792,0.844,0.812,0.805,(3.0641)+(0.0543)Ser+(-0.0998)Asn+(-0.0887)His+(0.0040)Leu+(0.1330)Phe+(-0.1277)Trp;0.882,0.898,0.805,0.791,0.826,0.821,0.786,0.806,(5.4643)+(-0.0922)His+(0.0554)Thr+(-0.3198)Met+(-0.0024)Lys+(0.1671)Phe+(-0.1324)Trp;0.882,0.896,0.804,0.790,0.791,0.865,0.823,0.817,(7.3957)+(-0.0482)His+(0.0382)Thr+(-0.0270)Val+(-0.2600)Met+(0.1258)Ile+(-0.0800)Trp;0.881,0.895,0.817,0.809,0.786,0.885,0.853,0.834,(6.6887)+(0.0341)Thr+(-0.0054)Ala+(-0.0345)Val+(-0.2668)Met+(0.1478)Ile+(-0.0845)Trp;0.881,0.897,0.798,0.794,0.816,0.823,0.751,0.796,(0.2587)+(0.0471)Ser+(0.0290)Thr+(-0.3706)Met+(-0.0105)Lys+(0.1761)Phe+(-0.1636)Trp;0.881,0.898,0.805,0.797,0.817,0.827,0.786,0.807,(-0.0129)+(0.0566)Ser+(-0.0507)Cit+(0.0079)Pro+(-0.3110)Met+(0.1611)Phe+(-0.1531)Trp;0.881,0.897,0.806,0.792,0.828,0.819,0.789,0.807,(5.5754)+(-0.0149)Asn+(-0.0911)His+(0.0549)Thr+(-0.3115)Met+(0.1657)Phe+(-0.1333)Trp;0.881,0.899,0.834,0.829,0.808,0.848,0.894,0.845,(4.9454)+(-0.0295)Asn+(-0.0406)Val+(-0.2362)Met+(0.1316)Ile+(0.1266)Phe+(-0.0995)Trp

[0333] ［実施例２で探索されたロジスティック回帰式の一覧（その２）］

以下に、前述した実施例２で探索されたロジスティック回帰式を列挙する。なお、式の前には、その式について得られた、「バリデーション有りでの膵臓癌群と健常群のＲＯＣ＿ＡＵＣの値」、「バリデーション無しでの膵臓癌群と健常群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と他癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣの値」、および「膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣの値の平均値」を、さらに列挙する。

[0334] 0.862,0.894,0.855,0.850,0.855,0.863,0.864,0.858,(2.2508)+(0.0135)Gln+(-0.1156)His+(-0.0544)Cit+(-0.1821)Met+(0.1518)Phe+(-0.1151)Trp;0.809,0.842,0.860,0.862,0.869,0.866,0.830,0.857,(5.7676)+(-0.0593)Asn+(0.0090)Gln+(-0.0683)Cit+(0.0235)Tyr+(-0.0892)Met+(-0.1426)Trp;0.805,0.839,0.859,0.866,0.861,0.867,0.831,0.856,(6.0629)+(-0.0739)Asn+(0.0084)Gln+(-0.0022)Ala+(-0.0714)Cit+(0.0130)Tyr+(-0.1421)Trp;0.861,0.892,0.852,0.845,0.851,0.860,0.867,0.856,(2.3965)+(0.0128)Gln+(-0.1297)His+(0.0154)Tyr+(-0.2172)Met+(0.1374)Phe+(-0.1094)Trp;0.826,0.858,0.859,0.874,0.841,0.836,0.870,0.855,(3.3210)+(-0.0919)Asn+(0.0062)Gln+(-0.0041)Ala+(-0.0060)Val+(0.0931)Phe+(-0.1458)Trp;0.865,0.892,0.852,0.849,0.848,0.857,0.864,0.854,(2.5117)+(-0.0105)Asn+(0.0128)Gln+(-0.1258)His+(-0.1885)Met+(0.1391)Phe+(-0.1051)Trp;0.832,0.863,0.856,0.865,0.848,0.848,0.856,0.854,(3.4918)+(-0.0812)Asn+(0.0083)Gln+(-0.0048)Ala+(-0.0926)Cit+(0.1044)Phe+(-0.1577)Trp;0.838,0.869,0.859,0.865,0.865,0.838,0.846,0.854,(2.2614)+(-0.0481)Asn+(0.0098)Gln+(-0.0872)Cit+(-0.1772)Met+(0.1247)Phe+(-0.1533)Trp;0.859,0.890,0.851,0.849,0.847,0.857,0.859,0.853,(2.4884)+(0.0134)Gln+(-0.1272)His+(-0.0096)Arg+(-0.1820)Met+(0

.1400)Phe+(-0.1049)Trp;0.867,0.892,0.850,0.846,0.846,0.857,0.862,0.85
3,(2.4271)+(0.0126)Gln+(-0.1275)His+(-0.1955)Met+(0.1405)Phe+(-0.1055
)Trp;0.864,0.892,0.849,0.846,0.846,0.856,0.861,0.852,(2.4120)+(0.0126
)Gln+(-0.1277)His+(0.0002)Ala+(-0.1968)Met+(0.1405)Phe+(-0.1055)Trp;0
.863,0.892,0.849,0.844,0.846,0.853,0.863,0.851,(2.4047)+(0.0126)Gln+(
-0.1304)His+(0.0029)Val+(-0.1969)Met+(0.1366)Phe+(-0.1080)Trp;0.835,0
.865,0.859,0.875,0.857,0.820,0.854,0.851,(2.1650)+(-0.0499)Asn+(0.007
9)Gln+(-0.0068)Val+(-0.2042)Met+(0.1209)Phe+(-0.1369)Trp;0.857,0.889,
0.846,0.840,0.841,0.860,0.862,0.851,(3.4876)+(-0.0572)Asn+(0.0125)Gln
+(-0.1139)His+(-0.0612)Cit+(0.1171)Phe+(-0.1225)Trp;0.865,0.893,0.845
,0.835,0.844,0.857,0.867,0.851,(2.3748)+(0.0127)Gln+(-0.1335)His+(-0.
2057)Met+(0.0145)Leu+(0.1299)Phe+(-0.1120)Trp;0.820,0.855,0.855,0.869
,0.845,0.833,0.855,0.850,(3.1828)+(-0.0751)Asn+(0.0067)Gln+(-0.0048)A
la+(-0.0135)Arg+(0.0888)Phe+(-0.1544)Trp;0.805,0.839,0.853,0.857,0.86
0,0.863,0.821,0.850,(5.3506)+(0.0073)Gln+(-0.0019)Ala+(-0.0665)Cit+(0
.0274)Tyr+(-0.1208)Met+(-0.1440)Trp;0.805,0.839,0.854,0.866,0.852,0.8
61,0.821,0.850,(6.1032)+(-0.0730)Asn+(0.0085)Gln+(-0.0017)Ala+(-0.070
6)Cit+(0.0030)Arg+(-0.1376)Trp;0.810,0.839,0.854,0.867,0.853,0.861,0.
819,0.850,(6.1036)+(-0.0709)Asn+(0.0086)Gln+(-0.0016)Ala+(-0.0689)Cit
+(-0.1374)Trp;0.810,0.839,0.855,0.868,0.854,0.861,0.817,0.850,(5.9973
)+(-0.0607)Asn+(0.0090)Gln+(-0.0008)Ala+(-0.0658)Cit+(-0.0447)Met+(-0
.1345)Trp;0.825,0.853,0.852,0.864,0.838,0.830,0.865,0.849,(3.1978)+(-
0.0869)Asn+(0.0061)Gln+(-0.0051)Ala+(0.0844)Phe+(-0.1536)Trp;0.826,0.
862,0.855,0.868,0.850,0.823,0.855,0.849,(2.1377)+(-0.0445)Asn+(0.0075
)Gln+(-0.0022)Ala+(-0.1950)Met+(0.1113)Phe+(-0.1437)Trp;0.827,0.863,0
.857,0.872,0.855,0.823,0.847,0.849,(3.2812)+(-0.0886)Asn+(0.0069)Gln+
(-0.0139)Arg+(-0.0078)Val+(0.0929)Phe+(-0.1487)Trp;0.817,0.853,0.852,
0.864,0.838,0.829,0.865,0.849,(3.1937)+(-0.0876)Asn+(0.0060)Gln+(-0.0

051)Ala+(0.0004)Lys+(0.0841)Phe+(-0.1538)Trp;0.862,0.892,0.846,0.841,0.843,0.853,0.858,0.849,(2.4961)+(0.0121)Gln+(-0.1282)His+(-0.1947)Met+(0.0089)Orn+(0.1359)Phe+(-0.1050)Trp;0.808,0.840,0.853,0.865,0.854,0.859,0.816,0.849,(5.9367)+(-0.0631)Asn+(0.0089)Gln+(-0.0682)Cit+(0.0039)Arg+(-0.0539)Met+(-0.1360)Trp;0.842,0.868,0.838,0.828,0.823,0.866,0.876,0.848,(4.8214)+(-0.0550)Asn+(0.0081)Gln+(-0.0076)Ala+(-0.0880)Cit+(0.0799)Ile+(-0.1627)Trp;0.828,0.856,0.846,0.845,0.844,0.866,0.837,0.848,(6.2674)+(-0.0542)Asn+(0.0120)Gln+(-0.0952)His+(-0.0395)Cit+(0.0220)Tyr+(-0.1092)Trp;0.858,0.885,0.843,0.841,0.829,0.856,0.866,0.848,(3.7749)+(-0.0504)Asn+(0.0112)Gln+(-0.1257)His+(-0.0027)Ala+(0.1070)Phe+(-0.1122)Trp;0.813,0.839,0.853,0.866,0.853,0.859,0.814,0.848,(5.9487)+(-0.0612)Asn+(0.0091)Gln+(-0.0660)Cit+(-0.0511)Met+(-0.1357)Trp;0.873,0.900,0.837,0.818,0.833,0.859,0.882,0.848,(2.0349)+(0.0121)Gln+(-0.1284)His+(-0.2378)Met+(0.0584)Ile+(0.1200)Phe+(-0.1165)Trp;0.818,0.853,0.851,0.863,0.836,0.828,0.865,0.848,(3.1849)+(-0.0865)Asn+(0.0060)Gln+(-0.0052)Ala+(0.0017)Leu+(0.0830)Phe+(-0.1548)Trp;0.807,0.836,0.852,0.864,0.850,0.858,0.819,0.848,(5.9789)+(-0.0773)Asn+(0.0083)Gln+(-0.0018)Ala+(-0.0686)Cit+(0.0044)Lys+(-0.1405)Trp;0.834,0.865,0.852,0.858,0.855,0.835,0.843,0.848,(2.0349)+(0.0082)Gln+(-0.0027)Ala+(-0.0866)Cit+(-0.1904)Met+(0.1300)Phe+(-0.1549)Trp;0.823,0.855,0.845,0.841,0.845,0.870,0.834,0.848,(5.8022)+(0.0115)Gln+(-0.0987)His+(-0.0345)Cit+(0.0344)Tyr+(-0.0969)Met+(-0.1080)Trp;0.832,0.863,0.852,0.860,0.850,0.835,0.845,0.848,(3.5427)+(-0.0934)Asn+(0.0083)Gln+(-0.0913)Cit+(-0.0035)Val+(0.0985)Phe+(-0.1588)Trp;0.832,0.863,0.854,0.868,0.847,0.820,0.856,0.848,(3.3020)+(-0.1020)Asn+(0.0061)Gln+(-0.0083)Val+(0.0893)Phe+(-0.1476)Trp;0.809,0.835,0.852,0.860,0.857,0.854,0.818,0.848,(5.9745)+(-0.0783)Asn+(0.0085)Gln+(-0.0724)Cit+(0.0081)Tyr+(-0.1447)Trp;0.795,0.830,0.852,0.866,0.845,0.852,0.827,0.848,(5.1777)+(-0.0531)

Asn+(0.0075)Gln+(-0.0015)Ala+(0.0202)Tyr+(-0.1137)Met+(-0.1356)Trp;0.
864,0.892,0.844,0.840,0.841,0.848,0.860,0.847,(2.0904)+(0.0121)Gln+(-
0.1342)His+(-0.2275)Met+(0.0111)Lys+(0.1425)Phe+(-0.1118)Trp;0.802,0.
835,0.852,0.860,0.856,0.854,0.819,0.847,(5.9724)+(-0.0793)Asn+(0.0084
)Gln+(-0.0731)Cit+(0.0014)Arg+(0.0078)Tyr+(-0.1447)Trp;0.821,0.854,0.
850,0.862,0.836,0.831,0.861,0.847,(3.0860)+(-0.0887)Asn+(0.0010)Gly+(
0.0059)Gln+(-0.0051)Ala+(0.0855)Phe+(-0.1536)Trp;0.819,0.852,0.849,0.
861,0.834,0.831,0.861,0.847,(3.2964)+(-0.0890)Asn+(0.0057)Gln+(-0.005
3)Ala+(0.0094)Orn+(0.0792)Phe+(-0.1521)Trp;0.825,0.855,0.846,0.851,0.
839,0.868,0.829,0.847,(6.3495)+(-0.0438)Asn+(0.0121)Gln+(-0.0878)His+
(-0.0359)Cit+(-0.0188)Met+(-0.0982)Trp;0.807,0.836,0.851,0.859,0.852,
0.856,0.819,0.847,(5.8630)+(-0.0663)Asn+(0.0085)Gln+(-0.0027)Ala+(-0.
0747)Cit+(0.0053)Val+(-0.1459)Trp;0.832,0.862,0.850,0.856,0.852,0.836
,0.843,0.847,(3.5137)+(-0.0865)Asn+(0.0084)Gln+(-0.0950)Cit+(-0.0029)
Lys+(0.0955)Phe+(-0.1631)Trp;0.830,0.857,0.843,0.842,0.838,0.866,0.83
9,0.846,(5.9220)+(-0.0347)Asn+(0.0121)Gln+(-0.1045)His+(0.0317)Tyr+(-
0.0819)Met+(-0.1044)Trp;0.842,0.868,0.836,0.824,0.827,0.864,0.868,0.8
46,(4.3742)+(0.0074)Gln+(-0.0067)Ala+(-0.0814)Cit+(-0.1076)Met+(0.084
4)Ile+(-0.1569)Trp;0.802,0.839,0.845,0.851,0.830,0.847,0.856,0.846,(5
.2638)+(-0.0625)Asn+(0.0077)Gln+(-0.0271)Val+(-0.1255)Met+(0.0579)Leu
+(-0.1291)Trp;0.866,0.895,0.843,0.838,0.841,0.846,0.859,0.846,(2.3031
)+(0.0124)Gln+(-0.1264)His+(0.0070)Pro+(-0.2170)Met+(0.1381)Phe+(-0.1
083)Trp;0.814,0.838,0.850,0.862,0.851,0.855,0.816,0.846,(6.0237)+(-0.
0754)Asn+(0.0086)Gln+(-0.0705)Cit+(-0.1410)Trp;0.828,0.863,0.852,0.86
6,0.843,0.822,0.851,0.845,(3.1762)+(-0.1039)Asn+(0.0010)Gly+(0.0060)G
ln+(-0.0083)Val+(0.0907)Phe+(-0.1474)Trp;0.812,0.846,0.844,0.845,0.84
1,0.849,0.847,0.845,(5.8225)+(-0.0862)Asn+(0.0084)Gln+(-0.0688)Cit+(-
0.0187)Val+(0.0445)Leu+(-0.1483)Trp;0.799,0.833,0.842,0.850,0.819,0.8

51,0.861,0.845,(5.5360)+(-0.0888)Asn+(0.0066)Gln+(-0.0032)Ala+(-0.025
4)Val+(0.0532)Leu+(-0.1346)Trp;0.809,0.841,0.850,0.865,0.847,0.865,0.
804,0.845,(5.9980)+(-0.0739)Asn+(0.0019)Gly+(0.0084)Gln+(-0.0016)Ala+
(-0.0714)Cit+(-0.1371)Trp;0.808,0.838,0.851,0.863,0.852,0.851,0.813,0
.845,(5.7387)+(-0.0657)Asn+(0.0087)Gln+(-0.0647)Cit+(-0.0687)Met+(0.0
064)Lys+(-0.1396)Trp;0.828,0.854,0.844,0.849,0.837,0.865,0.828,0.845,
(6.3750)+(-0.0487)Asn+(0.0120)Gln+(-0.0891)His+(0.0001)Ala+(-0.0370)C
it+(-0.0999)Trp;0.830,0.854,0.844,0.850,0.837,0.865,0.828,0.845,(6.38
15)+(-0.0485)Asn+(0.0120)Gln+(-0.0889)His+(-0.0370)Cit+(-0.0997)Trp;0
.808,0.838,0.849,0.861,0.850,0.854,0.814,0.845,(6.0191)+(-0.0769)Asn+
(0.0085)Gln+(-0.0717)Cit+(0.0021)Arg+(-0.1413)Trp;0.824,0.861,0.851,0
.866,0.843,0.816,0.855,0.845,(3.2955)+(-0.1079)Asn+(0.0060)Gln+(-0.00
91)Val+(0.0032)Lys+(0.0884)Phe+(-0.1481)Trp;0.849,0.882,0.838,0.832,0
.827,0.859,0.861,0.845,(3.3973)+(0.0107)Gln+(-0.1187)His+(-0.0036)Ala
+(-0.0613)Cit+(0.1236)Phe+(-0.1262)Trp;0.801,0.838,0.848,0.853,0.858,
0.856,0.812,0.845,(5.2374)+(0.0073)Gln+(-0.0668)Cit+(0.0001)Arg+(0.02
53)Tyr+(-0.1322)Met+(-0.1461)Trp;0.807,0.839,0.848,0.853,0.858,0.856,
0.811,0.844,(5.2385)+(0.0073)Gln+(-0.0667)Cit+(0.0253)Tyr+(-0.1321)Me
t+(-0.1460)Trp;0.861,0.885,0.829,0.818,0.801,0.875,0.883,0.844,(4.913
4)+(0.0066)Gln+(-0.0570)Cit+(-0.0378)Val+(-0.1870)Met+(0.1670)Ile+(-0
.1228)Trp;0.833,0.861,0.848,0.854,0.849,0.831,0.842,0.844,(3.4802)+(-
0.0912)Asn+(0.0082)Gln+(-0.0940)Cit+(0.0930)Phe+(-0.1645)Trp;0.788,0.
824,0.848,0.864,0.835,0.847,0.831,0.844,(5.4817)+(-0.0765)Asn+(-0.000
6)Gly+(0.0068)Gln+(-0.0028)Ala+(0.0026)Tyr+(-0.1349)Trp;0.803,0.835,0
.849,0.858,0.853,0.849,0.816,0.844,(5.8759)+(-0.0832)Asn+(0.0083)Gln+
(-0.0719)Cit+(0.0063)Tyr+(0.0034)Lys+(-0.1467)Trp;0.807,0.837,0.849,0
.857,0.856,0.851,0.813,0.844,(5.6996)+(-0.0573)Asn+(0.0089)Gln+(-0.07
08)Cit+(0.0045)Val+(-0.0602)Met+(-0.1435)Trp;0.831,0.865,0.844,0.852,

0.829,0.820,0.876,0.844,(3.5014)+(-0.1103)Asn+(0.0060)Gln+(-0.0296)Val+(0.0453)Leu+(0.0850)Phe+(-0.1518)Trp;0.827,0.861,0.853,0.866,0.855,0.812,0.843,0.844,(2.0627)+(-0.0417)Asn+(0.0081)Gln+(-0.0089)Arg+(-0.2034)Met+(0.1115)Phe+(-0.1455)Trp;0.809,0.840,0.845,0.849,0.845,0.848,0.834,0.844,(5.6309)+(-0.0669)Asn+(0.0083)Gln+(-0.0036)Ala+(-0.0762)Cit+(0.0191)Leu+(-0.1522)Trp;0.880,0.900,0.831,0.825,0.800,0.853,0.898,0.844,(1.6131)+(0.0057)Gln+(-0.0525)Val+(-0.3431)Met+(0.1808)Ile+(0.1304)Phe+(-0.1173)Trp;0.829,0.861,0.848,0.854,0.849,0.831,0.842,0.844,(3.4795)+(-0.0908)Asn+(0.0082)Gln+(-0.0937)Cit+(-0.0005)Arg+(0.0930)Phe+(-0.1645)Trp;0.824,0.852,0.843,0.850,0.837,0.865,0.824,0.844,(6.3859)+(-0.0451)Asn+(0.0123)Gln+(-0.0902)His+(-0.0340)Cit+(-0.0043)Arg+(-0.0988)Trp;0.817,0.847,0.844,0.850,0.839,0.858,0.828,0.844,(6.2658)+(-0.0673)Asn+(0.0081)Gln+(-0.0054)Ala+(-0.0773)Cit+(0.0130)Pro+(-0.1416)Trp;0.824,0.861,0.852,0.864,0.852,0.812,0.847,0.844,(2.0112)+(-0.0454)Asn+(0.0076)Gln+(0.0016)Tyr+(-0.2134)Met+(0.1094)Phe+(-0.1459)Trp;0.810,0.841,0.849,0.863,0.849,0.860,0.802,0.844,(5.8487)+(-0.0641)Asn+(0.0019)Gly+(0.0089)Gln+(-0.0685)Cit+(-0.0502)Met+(-0.1355)Trp;0.836,0.869,0.845,0.851,0.836,0.820,0.867,0.844,(1.7715)+(0.0065)Gln+(-0.0319)Val+(-0.2619)Met+(0.0539)Leu+(0.1213)Phe+(-0.1461)Trp;0.854,0.879,0.828,0.821,0.791,0.876,0

.886,0.844,(5.6074)+(-0.0967)Asn+(0.0077)Gln+(-0.0706)Cit+(-0.0363)Val+(0.1494)Ile+(-0.1313)Trp;0.866,0.894,0.840,0.838,0.836,0.858,0.841,0.843,(2.0299)+(0.0044)Gly+(0.0119)Gln+(-0.1319)His+(-0.2072)Met+(0.1476)Phe+(-0.1045)Trp;0.786,0.824,0.848,0.866,0.837,0.847,0.822,0.843,(5.4570)+(-0.0712)Asn+(0.0072)Gln+(-0.0026)Ala+(-0.0084)Arg+(0.0048)Tyr+(-0.1345)Trp;0.829,0.860,0.847,0.852,0.849,0.831,0.842,0.843,(3.4683)+(-0.0911)Asn+(0.0082)Gln+(-0.0942)Cit+(0.0018)Leu+(0.0913)Phe+(-0.1660)Trp;0.833,0.861,0.851,0.863,0.852,0.811,0.846,0.843,(2.0143)+(-

0.0455)Asn+(0.0076)Gln+(-0.2109)Met+(0.1098)Phe+(-0.1455)Trp;0.793,0.831,0.848,0.862,0.846,0.844,0.821,0.843,(5.1177)+(-0.0542)Asn+(-0.0002)Gly+(0.0076)Gln+(0.0182)Tyr+(-0.1223)Met+(-0.1367)Trp;0.837,0.865,0.838,0.826,0.840,0.853,0.853,0.843,(4.5403)+(-0.0428)Asn+(0.0087)Gln+(-0.0781)Cit+(-0.1229)Met+(0.0689)Ile+(-0.1589)Trp;0.830,0.863,0.849,0.863,0.844,0.821,0.845,0.843,(3.4816)+(-0.1074)Asn+(0.0056)Gln+(-0.0101)Val+(0.0148)Orn+(0.0846)Phe+(-0.1431)Trp;0.835,0.865,0.850,0.856,0.858,0.826,0.833,0.843,(1.8996)+(0.0083)Gln+(-0.0849)Cit+(-0.0021)Val+(-0.2102)Met+(0.1306)Phe+(-0.1546)Trp;0.828,0.865,0.849,0.854,0.859,0.826,0.833,0.843,(1.8779)+(0.0083)Gln+(-0.0865)Cit+(0.0037)Tyr+(-0.2157)Met+(0.1267)Phe+(-0.1580)Trp;0.820,0.849,0.848,0.859,0.853,0.872,0.788,0.843,(6.7018)+(-0.0985)Asn+(0.0072)Gln+(0.0206)Thr+(-0.0028)Ala+(-0.0740)Cit+(-0.1456)Trp;0.788,0.823,0.847,0.865,0.834,0.845,0.829,0.843,(5.4951)+(-0.0756)Asn+(-0.0007)Gly+(0.0069)Gln+(-0.0027)Ala+(0.0002)Val+(-0.1344)Trp;0.796,0.824,0.847,0.865,0.834,0.845,0.829,0.843,(5.5074)+(-0.0757)Asn+(-0.0007)Gly+(0.0069)Gln+(-0.0027)Ala+(-0.1341)Trp;0.787,0.825,0.847,0.863,0.834,0.847,0.827,0.843,(5.4224)+(-0.0774)Asn+(0.0067)Gln+(-0.0028)Ala+(0.0030)Tyr+(0.0001)Val+(-0.1351)Trp;0.841,0.866,0.832,0.819,0.816,0.863,0.874,0.843,(4.7910)+(0.0072)Gln+(-0.0086)Ala+(-0.0936)Cit+(-0.0102)Lys+(0.0909)Ile+(-0.1638)Trp;0.794,0.825,0.846,0.863,0.834,0.847,0.827,0.843,(5.4282)+(-0.0775)Asn+(0.0067)Gln+(-0.0028)Ala+(0.0031)Tyr+(-0.1350)Trp;0.790,0.829,0.849,0.863,0.849,0.844,0.815,0.843,(5.1494)+(-0.0511)Asn+(0.0079)Gln+(-0.0070)Arg+(0.0196)Tyr+(-0.1191)Met+(-0.1358)Trp;0.827,0.861,0.851,0.863,0.851,0.811,0.846,0.843,(2.0069)+(-0.0454)Asn+(0.0076)Gln+(-0.2115)Met+(0.0008)Leu+(0.1092)Phe+(-0.1460)Trp;0.798,0.831,0.848,0.861,0.846,0.844,0.820,0.843,(5.0998)+(-0.0544)Asn+(0.0075)Gln+(0.0184)Tyr+(-0.1226)Met+(-0.1367)Trp;0.804,0.836,0.847,0.854,0.855,0.848,0.814,0.843,(5.

8144)+(-0.0763)Asn+(0.0084)Gln+(-0.0758)Cit+(0.0057)Tyr+(0.0032)Val+(-0.1501)Trp;0.851,0.875,0.833,0.828,0.814,0.868,0.860,0.843,(4.8479)+(-0.0763)Asn+(0.0085)Gln+(-0.0834)Cit+(0.1455)Ile+(-0.0584)Leu+(-0.1487)Trp;0.856,0.885,0.840,0.838,0.833,0.848,0.851,0.843,(3.6081)+(-0.0403)Asn+(0.0126)Gln+(-0.1304)His+(-0.0168)Arg+(0.1065)Phe+(-0.1131)Trp

[0335] ［実施例２で探索された線形判別式の一覧（その２）］

以下に、前述した実施例２で探索された線形判別式を列挙する。なお、式の前には、その式について得られた、「バリデーション有りでの膵臓癌群と健常群のＲＯＣ＿ＡＵＣの値」、「バリデーション無しでの膵臓癌群と健常群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と他癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣの値」、および「膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣの値の平均値」を、さらに列挙する。

[0336] 0.876,0.897,0.863,0.862,0.862,0.864,0.866,0.864,(2.6773)+(0.0131)Gln+(-0.0833)His+(-0.0369)Cit+(-0.1942)Met+(0.1325)Phe+(-0.1189)Trp;0.815,0.839,0.865,0.874,0.862,0.879,0.839,0.864,(6.3554)+(-0.0849)Asn+(0.0097)Gln+(-0.0031)Ala+(-0.0554)Cit+(0.0122)Tyr+(-0.1240)Trp;0.875,0.897,0.861,0.858,0.856,0.868,0.871,0.863,(4.1845)+(-0.0886)Asn+(0.0124)Gln+(-0.0795)His+(-0.0439)Cit+(0.1039)Phe+(-0.1254)Trp;0.844,0.868,0.866,0.876,0.856,0.852,0.867,0.863,(4.2725)+(-0.1063)Asn+(0.0099)Gln+(-0.0038)Ala+(-0.0633)Cit+(0.0905)Phe+(-0.1475)Trp;0.818,0.842,0.865,0.869,0.870,0.872,0.837,0.862,(5.8158)+(-0.0671)Asn+(0.0103)Gln+(-0.0536)Cit+(0.0213)Tyr+(-0.0888)Met+(-0.1263)Trp;0.852,0.873,0.867,0.875,0.870,0.842,0.860,0.862,(2.9709)+(-0.0695)Asn+(0.0114)Gln+(-0.0601)Cit

+(-0.1650)Met+(0.1155)Phe+(-0.1481)Trp;0.877,0.895,0.861,0.862,0.858,0.856,0.870,0.861,(3.0012)+(-0.0367)Asn+(0.0128)Gln+(-0.0871)His+(-0.1691)Met+(0.1301)Phe+(-0.1171)Trp;0.849,0.871,0.866,0.877,0.860,0.843,0.863,0.861,(4.4184)+(-0.1197)Asn+(0.0097)Gln+(-0.0558)Cit+(-0.0076)Val+(0.1001)Phe+(-0.1461)Trp;0.846,0.865,0.851,0.844,0.833,0.878,0.888,0.861,(5.4014)+(-0.0795)Asn+(0.0089)Gln+(-0.0071)Ala+(-0.0725)Cit+(0.0602)Ile+(-0.1221)Trp;0.850,0.871,0.863,0.870,0.862,0.847,0.859,0.860,(4.1784)+(-0.1095)Asn+(0.0102)Gln+(-0.0648)Cit+(-0.0050)Lys+(0.0905)Phe+(-0.1510)Trp;0.874,0.895,0.858,0.856,0.856,0.855,0.870,0.859,(2.5573)+(0.0121)Gln+(-0.0909)His+(0.0123)Tyr+(-0.2108)Met+(0.1287)Phe+(-0.1198)Trp;0.817,0.839,0.863,0.878,0.856,0.874,0.827,0.859,(6.2806)+(-0.0688)Asn+(0.0103)Gln+(-0.0018)Ala+(-0.0528)Cit+(-0.0466)Met+(-0.1161)Trp;0.816,0.839,0.861,0.875,0.852,0.873,0.833,0.858,(6.5510)+(-0.0865)Asn+(0.0094)Gln+(-0.0028)Ala+(-0.0594)Cit+(0.0068)Arg+(-0.1198)Trp;0.816,0.841,0.859,0.868,0.853,0.869,0.843,0.858,(6.0813)+(-0.0835)Asn+(0.0098)Gln+(-0.0036)Ala+(-0.0596)Cit+(0.0105)Leu+(-0.1236)Trp;0.820,0.838,0.861,0.875,0.855,0.872,0.830,0.858,(6.4488)+(-0.0822)Asn+(0.0098)Gln+(-0.0026)Ala+(-0.0545)Cit+(-0.1189)Trp;0.815,0.838,0.861,0.875,0.854,0.872,0.830,0.858,(6.4299)+(-0.0829)Asn+(0.0098)Gln+(-0.0026)Ala+(-0.0545)Cit+(0.0006)Lys+(-0.1193)Trp;0.863,0.881,0.846,0.844,0.814,0.886,0.888,0.858,(6.0987)+(-0.1059)Asn+(0.0079)Gln+(-0.0561)Cit+(-0.0246)Val+(0.1006)Ile+(-0.1051)Trp;0.838,0.861,0.862,0.879,0.845,0.838,0.871,0.858,(4.5654)+(-0.1123)Asn+(0.0076)Gln+(-0.0024)Ala+(-0.0100)Val+(0.1002)Phe+(-0.1400)Trp;0.816,0.838,0.861,0.873,0.856,0.871,0.831,0.858,(6.2809)+(-0.0810)Asn+(0.0098)Gln+(-0.0030)Ala+(-0.0574)Cit+(0.0023)Val+(-0.1217)Trp;0.848,0.868,0.865,0.880,0.860,0.826,0.863,0.857,(3.3302)+(-0.0714)Asn+(0.0094)Gln+(-0.0103)Val+(-0.1688)Met+(0.1280)Phe+(-0.1379)Trp;0.821,0.844,0.858,0.865,0.851,0.863,0.849,0

.857,(6.2656)+(-0.1002)Asn+(0.0095)Gln+(-0.0522)Cit+(-0.0132)Val+(0.0269)Leu+(-0.1204)Trp;0.813,0.838,0.859,0.867,0.859,0.872,0.831,0.857,(5.3275)+(0.0086)Gln+(-0.0027)Ala+(-0.0507)Cit+(0.0266)Tyr+(-0.1304)Met+(-0.1249)Trp;0.870,0.890,0.853,0.855,0.840,0.857,0.876,0.857,(4.2458)+(-0.0784)Asn+(0.0110)Gln+(-0.0865)His+(-0.0023)Ala+(0.1026)Phe+(-0.1193)Trp;0.846,0.869,0.862,0.872,0.861,0.839,0.853,0.856,(4.1950)+(-0.1153)Asn+(0.0098)Gln+(-0.0611)Cit+(-0.0087)Leu+(0.0973)Phe+(-0.1515)Trp;0.871,0.894,0.855,0.856,0.851,0.852,0.865,0.856,(2.6471)+(0.0123)Gln+(-0.0905)His+(-0.0020)Arg+(-0.1937)Met+(0.1307)Phe+(-0.1158)Trp;0.834,0.855,0.855,0.863,0.845,0.878,0.837,0.856,(6.7550)+(-0.0609)Asn+(0.0118)Gln+(-0.0620)His+(-0.0012)Ala+(-0.0377)Cit+(-0.0952)Trp;0.877,0.896,0.853,0.850,0.850,0.854,0.868,0.856,(2.5522)+(0.0122)Gln+(-0.0940)His+(-0.2001)Met+(0.0059)Leu+(0.1259)Phe+(-0.1162)Trp;0.874,0.893,0.854,0.854,0.850,0.852,0.865,0.855,(2.6456)+(0.0121)Gln+(-0.0905)His+(-0.0000)Ala+(-0.1962)Met+(0.1311)Phe+(-0.1162)Trp;0.820,0.843,0.857,0.868,0.849,0.868,0.836,0.855,(6.4530)+(-0.0810)Asn+(0.0091)Gln+(-0.0041)Ala+(-0.0552)Cit+(0.0059)Pro+(-0.1177)Trp;0.876,0.893,0.854,0.854,0.850,0.852,0.865,0.855,(2.6445)+(0.0121)Gln+(-0.0905)His+(-0.1963)Met+(0.1311)Phe+(-0.1162)Trp;0.874,0.893,0.854,0.855,0.849,0.852,0.864,0.855,(2.6523)+(0.0121)Gln+(-0.0902)His+(-0.0002)Val+(-0.1963)Met+(0.1314)Phe+(-0.1161)Trp;0.836,0.858,0.854,0.857,0.851,0.872,0.840,0.855,(6.5444)+(-0.0675)Asn+(0.0117)Gln+(-0.0648)His+(-0.0387)Cit+(0.0131)Tyr+(-0.1028)Trp;0.808,0.832,0.853,0.866,0.829,0.864,0.860,0.855,(6.4282)+(-0.0939)Asn+(0.0075)Gln+(-0.0029)Ala+(-0.0179)Val+(0.0326)Leu+(-0.1132)Trp;0.843,0.866,0.858,0.872,0.844,0.831,0.873,0.855,(4.6216)+(-0.1240)Asn+(0.0075)Gln+(-0.0187)Val+(0.0156)Leu+(0.0954)Phe+(-0.1391)Trp;0.872,0.893,0.854,0.853,0.849,0.852,0.863,0.855,(2.6500)+(0.0119)Gln+(-0.0907)His+(-0.1957)Met+(0.0024)Orn+(0.1302)Phe+(-0.1160

)Trp;0.836,0.857,0.855,0.863,0.848,0.875,0.832,0.855,(6.5627)+(-0.0499)Asn+(0.0122)Gln+(-0.0619)His+(-0.0363)Cit+(-0.0430)Met+(-0.0935)Trp;0.874,0.894,0.854,0.853,0.850,0.850,0.864,0.855,(2.5315)+(0.0119)Gln+(-0.0916)His+(-0.2033)Met+(0.0029)Lys+(0.1306)Phe+(-0.1171)Trp;0.821,0.840,0.859,0.873,0.856,0.867,0.822,0.854,(6.1205)+(-0.0704)Asn+(0.0103)Gln+(-0.0531)Cit+(-0.0570)Met+(-0.1186)Trp;0.803,0.830,0.857,0.871,0.848,0.859,0.840,0.854,(5.7371)+(-0.0592)Asn+(0.0082)Gln+(-0.0024)Ala+(0.0223)Tyr+(-0.0910)Met+(-0.1242)Trp;0.833,0.857,0.853,0.852,0.853,0.876,0.836,0.854,(5.7659)+(0.0113)Gln+(-0.0684)His+(-0.0335)Cit+(0.0279)Tyr+(-0.1168)Met+(-0.1013)Trp;0.844,0.868,0.859,0.867,0.858,0.837,0.855,0.854,(4.0726)+(-0.1158)Asn+(0.0098)Gln+(-0.0646)Cit+(-0.0003)Pro+(0.0876)Phe+(-0.1537)Trp;0.850,0.868,0.859,0.866,0.858,0.837,0.856,0.854,(4.0736)+(-0.1158)Asn+(0.0098)Gln+(-0.0646)Cit+(0.0874)Phe+(-0.1537)Trp;0.832,0.855,0.859,0.875,0.845,0.832,0.865,0.854,(4.2884)+(-0.1042)Asn+(0.0075)Gln+(-0.0033)Ala+(-0.0103)Leu+(0.0951)Phe+(-0.1460)Trp;0.832,0.856,0.857,0.870,0.842,0.834,0.870,0.854,(4.2512)+(-0.0983)Asn+(0.0076)Gln+(-0.0040)Ala+(-0.0036)Lys+(0.0857)Phe+(-0.1455)Trp;0.850,0.870,0.845,0.837,0.831,0.873,0.876,0.854,(4.3443)+(0.0086)Gln+(-0.0065)Ala+(-0.0699)Cit+(-0.1457)Met+(0.0719)Ile+(-0.1159)Trp;0.839,0.861,0.849,0.842,0.845,0.865,0.863,0.854,(5.3657)+(-0.0871)Asn+(0.0095)Gln+(-0.0723)Cit+(-0.0074)Lys+(0.0506)Ile+(-0.1284)Trp;0.841,0.864,0.860,0.876,0.849,0.828,0.861,0.853,(4.4599)+(-0.1165)Asn+(0.0079)Gln+(-0.0038)Arg+(-0.0112)Val+(0.1003)Phe+(-0.1418)Trp;0.816,0.839,0.854,0.867,0.835,0.857,0.855,0.853,(5.9653)+(-0.0715)Asn+(0.0085)Gln+(-0.0217)Val+(-0.1018)Met+(0.0410)Leu+(-0.1085)Trp;0.817,0.840,0.857,0.870,0.852,0.867,0.825,0.853,(6.2031)+(-0.0741)Asn+(0.0099)Gln+(-0.0582)Cit+(0.0072)Arg+(-0.0613)Met+(-0.1196)Trp;0.852,0.871,0.838,0.841,0.787,0.885,0.901,0.853,(6.3239)+(-0.0898)Asn+(0.0056)Gln+(-0.0062

)Ala+(-0.0277)Val+(0.1121)Ile+(-0.0928)Trp;0.812,0.838,0.858,0.867,0.860,0.860,0.827,0.853,(6.1992)+(-0.0911)Asn+(0.0097)Gln+(-0.0564)Cit+(0.0078)Tyr+(-0.0007)Lys+(-0.1273)Trp;0.873,0.893,0.852,0.852,0.844,0.849,0.868,0.853,(4.0710)+(-0.0792)Asn+(0.0116)Gln+(-0.0890)His+(-0.0058)Arg+(0.1011)Phe+(-0.1209)Trp;0.868,0.886,0.840,0.833,0.815,0.884,0.881,0.853,(4.7899)+(0.0075)Gln+(-0.0516)Cit+(-0.0267)Val+(-0.2009)Met+(0.1234)Ile+(-0.0924)Trp;0.816,0.838,0.857,0.867,0.859,0.859,0.828,0.853,(6.1771)+(-0.0919)Asn+(0.0096)Gln+(-0.0564)Cit+(0.0076)Tyr+(-0.1277)Trp;0.814,0.839,0.858,0.870,0.857,0.864,0.822,0.853,(5.9708)+(-0.0693)Asn+(0.0104)Gln+(-0.0552)Cit+(0.0016)Val+(-0.0603)Met+(-0.1209)Trp;0.886,0.905,0.844,0.843,0.816,0.856,0.897,0.853,(2.0355)+(0.0066)Gln+(-0.0397)Val+(-0.3168)Met+(0.1284)Ile+(0.1311)Phe+(-0.1090)Trp;0.818,0.840,0.856,0.873,0.848,0.877,0.814,0.853,(6.3593)+(-0.0845)Asn+(0.0024)Gly+(0.0095)Gln+(-0.0027)Ala+(-0.0576)Cit+(-0.1181)Trp;0.814,0.838,0.857,0.867,0.859,0.859,0.827,0.853,(6.1678)+(-0.0919)Asn+(0.0096)Gln+(-0.0565)Cit+(0.0075)Tyr+(0.0001)Val+(-0.1278)Trp;0.873,0.892,0.851,0.852,0.842,0.848,0.870,0.853,(4.2347)+(-0.0860)Asn+(0.0110)Gln+(-0.0853)His+(-0.0024)Val+(0.1046)Phe+(-0.1211)Trp;0.837,0.858,0.851,0.854,0.847,0.868,0.841,0.853,(6.0881)+(-0.0392)Asn+(0.0112)Gln+(-0.0715)His+(0.0254)Tyr+(-0.0882)Met+(-0.0993)Trp;0.873,0.893,0.844,0.848,0.810,0.852,0.899,0.852,(4.5526)+(-0.1319)Asn+(0.0058)Gln+(-0.0339)Val+(0.0933)Ile+(0.0918)Phe+(-0.1225)Trp;0.845,0.867,0.842,0.833,0.823,0.873,0.880,0.852,(5.0406)+(0.0070)Gln+(-0.0086)Ala+(-0.0741)Cit+(-0.0113)Lys+(0.0691)Ile+(-0.1191)Trp;0.817,0.839,0.857,0.872,0.854,0.862,0.821,0.852,(6.0399)+(-0.0717)Asn+(0.0102)Gln+(-0.0530)Cit+(-0.0614)Met+(0.0019)Lys+(-0.1196)Trp;0.851,0.873,0.851,0.847,0.850,0.840,0.873,0.852,(3.7665)+(-0.1162)Asn+(0.0093)Gln+(-0.0729)Cit+(0.0294)Ile+(0.0726)Phe+(-0.1544)Trp;0.834,0.855,0.852,0.859,0.845,0.871,0.834,0.

852,(6.6903)+(-0.0647)Asn+(0.0118)Gln+(-0.0630)His+(-0.0389)Cit+(0.0013)Arg+(-0.0973)Trp;0.871,0.891,0.850,0.849,0.842,0.848,0.870,0.852,(4.1249)+(-0.0832)Asn+(0.0111)Gln+(-0.0888)His+(-0.0006)Pro+(0.1016)Phe+(-0.1222)Trp;0.838,0.855,0.852,0.860,0.845,0.871,0.833,0.852,(6.6752)+(-0.0637)Asn+(0.0119)Gln+(-0.0633)His+(-0.0379)Cit+(-0.0969)Trp;0.876,0.897,0.851,0.850,0.846,0.848,0.864,0.852,(2.6021)+(0.0118)Gln+(-0.0903)His+(0.0036)Pro+(-0.2057)Met+(0.1298)Phe+(-0.1159)Trp;0.844,0.865,0.847,0.838,0.846,0.862,0.861,0.852,(4.6128)+(-0.0559)Asn+(0.0100)Gln+(-0.0691)Cit+(-0.1294)Met+(0.0581)Ile+(-0.1234)Trp;0.872,0.892,0.849,0.849,0.841,0.847,0.870,0.852,(4.1478)+(-0.0822)Asn+(0.0111)Gln+(-0.0885)His+(-0.0011)Lys+(0.1016)Phe+(-0.1218)Trp;0.812,0.837,0.855,0.865,0.855,0.857,0.830,0.852,(6.2501)+(-0.0955)Asn+(0.0093)Gln+(-0.0602)Cit+(0.0052)Arg+(0.0070)Tyr+(-0.1284)Trp;0.876,0.892,0.849,0.848,0.841,0.848,0.869,0.852,(4.1266)+(-0.0834)Asn+(0.0110)Gln+(-0.0889)His+(0.1011)Phe+(-0.1222)Trp;0.832,0.855,0.855,0.869,0.841,0.830,0.866,0.852,(4.1494)+(-0.1004)Asn+(0.0076)Gln+(-0.0041)Ala+(-0.0032)Arg+(0.0835)Phe+(-0.1466)Trp;0.873,0.892,0.849,0.848,0.842,0.848,0.869,0.851,(4.1304)+(-0.0835)Asn+(0.0110)Gln+(-0.0887)His+(-0.0003)Leu+(0.1014)Phe+(-0.1222)Trp;0.842,0.864,0.857,0.873,0.847,0.825,0.861,0.851,(4.5031)+(-0.1189)Asn+(0.0076)Gln+(-0.0113)Val+(-0.0002)Lys+(0.1006)Phe+(-0.1425)Trp;0.847,0.864,0.857,0.873,0.847,0.825,0.861,0.851,(4.5012)+(-0.1192)Asn+(0.0076)Gln+(-0.0114)Val+(0.1005)Phe+(-0.1425)Trp;0.819,0.843,0.855,0.863,0.856,0.858,0.830,0.851,(5.6067)+(-0.0680)Asn+(0.0105)Gln+(-0.0579)Cit+(-0.0775)Met+(0.0109)Leu+(-0.1237)Trp;0.814,0.839,0.855,0.863,0.855,0.857,0.831,0.851,(5.9974)+(-0.0889)Asn+(0.0099)Gln+(-0.0600)Cit+(-0.0026)Lys+(
0.0084)Leu+(-0.1273)Trp;0.856,0.875,0.843,0.840,0.825,0.875,0.865,0.851,(5.6391)+(-0.0894)Asn+(0.0081)Gln+(-0.0686)Cit+(0.1097)Ile+(-0.044

7)Leu+(-0.1169)Trp;0.813,0.838,0.855,0.866,0.851,0.860,0.828,0.851,(6.4138)+(-0.0916)Asn+(0.0095)Gln+(-0.0606)Cit+(0.0068)Arg+(-0.0019)Lys+(-0.1238)Trp;0.884,0.901,0.844,0.832,0.839,0.854,0.880,0.851,(2.0499)+(0.0118)Gln+(-0.0940)His+(-0.2274)Met+(0.0420)Ile+(0.1165)Phe+(-0.1146)Trp;0.833,0.854,0.852,0.857,0.855,0.876,0.816,0.851,(6.3446)+(-0.0858)Asn+(0.0085)Gln+(-0.0036)Ala+(-0.0827)Cit+(0.0399)Orn+(-0.1185)Trp;0.844,0.867,0.855,0.861,0.854,0.831,0.859,0.851,(4.1532)+(-0.1213)Asn+(0.0093)Gln+(-0.0701)Cit+(0.0073)Arg+(0.0880)Phe+(-0.1552)Trp;0.812,0.838,0.854,0.861,0.857,0.855,0.832,0.851,(5.9157)+(-0.0939)Asn+(0.0096)Gln+(-0.0597)Cit+(0.0054)Tyr+(0.0067)Leu+(-0.1309)Trp;0.846,0.868,0.857,0.868,0.857,0.832,0.847,0.851,(2.4549)+(0.0096)Gln+(-0.0020)Ala+(-0.0570)Cit+(-0.2059)Met+(0.1155)Phe+(-0.1458)Trp;0.842,0.863,0.857,0.871,0.851,0.820,0.862,0.851,(2.9539)+(-0.0618)Asn+(0.0090)Gln+(-0.0018)Ala+(-0.1665)Met+(0.1105)Phe+(-0.1453)Trp;0.859,0.878,0.839,0.838,0.806,0.876,0.883,0.851,(5.5211)+(-0.0556)Asn+(0.0071)Gln+(-0.0306)Val+(-0.1601)Met+(0.1221)Ile+(-0.0872)Trp;0.872,0.890,0.837,0.835,0.795,0.862,0.911,0.851,(6.1834)+(-0.0880)Asn+(-0.0059)Ala+(-0.0341)Val+(0.1111)Ile+(0.0892)Phe+(-0.1065)Trp;0.861,0.879,0.831,0.811,0.804,0.880,0.907,0.851,(6.6747)+(-0.0060)Ala+(0.0404)Tyr+(-0.0328)Val+(-0.1943)Met+(0.1415)Ile+(-0.0867)Trp;0.801,0.827,0.853,0.869,0.840,0.856,0.838,0.851,(6.3135)+(-0.0839)Asn+(0.0075)Gln+(-0.0030)Ala+(0.0105)Tyr+(-0.0021)Val+(-0.1222)Trp;0.834,0.853,0.853,0.866,0.838,0.829,0.868,0.850,(4.1858)+(-0.1024)Asn+(0.0073)Gln+(-0.0042)Ala+(0.0836)Phe+(-0.1471)Trp;0.835,0.856,0.850,0.857,0.845,0.867,0.833,0.850,(6.5698)+(-0.0676)Asn+(0.0116)Gln+(-0.0647)His+(-0.0376)Cit+(0.0032)Lys+(-0.0986)Trp;0.821,0.844,0.854,0.863,0.853,0.860,0.824,0.850,(5.9896)+(-0.0674)Asn+(0.0099)Gln+(-0.0535)Cit+(0.0049)Pro+(-0.0736)Met+(-0.1185)Trp;0.818,0.838,0.855,0.868,0.852,0.860,0.820,0.850,(6.2676)+(-0.0890)A

sn+(0.0098)Gln+(-0.0557)Cit+(-0.0003)Lys+(-0.1237)Trp;0.861,0.878,0.835,0.833,0.794,0.879,0.894,0.850,(5.1510)+(0.0056)Gln+(-0.0053)Ala+(-0.0295)Val+(-0.1808)Met+(0.1311)Ile+(-0.0826)Trp;0.822,0.838,0.854,0.868,0.852,0.859,0.821,0.850,(6.2580)+(-0.0894)Asn+(0.0097)Gln+(-0.0557)Cit+(-0.1239)Trp;0.806,0.830,0.854,0.867,0.850,0.853,0.830,0.850,(5.7845)+(-0.0635)Asn+(0.0083)Gln+(0.0215)Tyr+(-0.0025)Val+(-0.0978)Met+(-0.1237)Trp;0.835,0.861,0.852,0.860,0.843,0.847,0.848,0.850,(3.9364)+(0.0067)Gln+(-0.0053)Ala+(-0.0610)Cit+(-0.0089)Lys+(0.0823)Phe+(-0.1445)Trp;0.814,0.837,0.854,0.868,0.853,0.858,0.821,0.850,(6.2188)+(-0.0885)Asn+(0.0098)Gln+(-0.0566)Cit+(0.0007)Val+(-0.0006)Lys+(-0.1245)Trp;0.814,0.837,0.854,0.868,0.853,0.858,0.821,0.850,(6.2188)+(-0.0885)Asn+(0.0098)Gln+(-0.0566)Cit+(0.0007)Val+(-0.0006)Lys+(-0.1245)Trp

[0337] ［実施例４で探索されたロジスティック回帰式の一覧（その１）］

以下に、前述した実施例４で探索されたロジスティック回帰式を列挙する。なお、式の前には、その式について得られた、「バリデーション有りでの膵臓癌群と他癌群のＲＯＣ＿ＡＵＣの値」、「バリデーション無しでの膵臓癌群と他癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と健常群のＲＯＣ＿ＡＵＣの値」「膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣの値」、および「膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣの値の平均値」を、さらに列挙する。

[0338] 0.854,0.873,0.835,0.891,0.849,0.888,0.863,0.873,(1.7072)+(-0.0985)Asn+(0.0115)Gln+(-0.0063)Ala+(-0.0582)Cit+(0.0212)Phe+(-0.0792)Trp;0.852,0.871,0.832,0.884,0.849,0.896,0.867,0.874,(2.3113)+(-0.1017)Asn+(0.0110)Gln+(-0.0063)Ala+(-0.0568)Cit+(0.0111)Ile+(-0.0719)Trp;0.851,0.869,0.820,0.889,0.845,0.892,0.850,0.869,(2.6006)+(-0.1002)Asn+(0.0111)G

ln+(-0.0058)Ala+(-0.0561)Cit+(-0.0706)Trp;0.850,0.872,0.823,0.887,0.851,0.892,0.863,0.873,(2.3468)+(-0.1053)Asn+(0.0111)Gln+(-0.0063)Ala+(-0.0570)Cit+(0.0137)Tyr+(-0.0747)Trp;0.849,0.870,0.846,0.884,0.866,0.869,0.842,0.865,(1.2353)+(-0.0844)Asn+(0.0123)Gln+(-0.0572)Cit+(-0.1339)Met+(0.0312)Phe+(-0.0816)Trp;0.849,0.870,0.808,0.894,0.845,0.892,0.842,0.868,(2.7671)+(-0.0984)Asn+(0.0120)Gln+(-0.0048)Ala+(-0.0551)Cit+(-0.0068)Pro+(-0.0739)Trp;0.849,0.869,0.784,0.884,0.857,0.847,0.870,0.865,(3.8383)+(-0.0962)Asn+(-0.0121)Gly+(0.0143)Gln+(-0.0492)Cit+(-0.0112)Pro+(-0.0942)Trp;0.848,0.870,0.819,0.892,0.845,0.893,0.849,0.870,(2.7323)+(-0.0997)Asn+(0.0111)Gln+(-0.0055)Ala+(-0.0544)Cit+(-0.0019)Val+(-0.0677)Trp;0.848,0.870,0.820,0.889,0.846,0.892,0.850,0.869,(2.5966)+(-0.0990)Asn+(0.0112)Gln+(-0.0058)Ala+(-0.0560)Cit+(-0.0008)Lys+(-0.0698)Trp;0.848,0.869,0.821,0.888,0.846,0.891,0.851,0.869,(2.5842)+(-0.1004)Asn+(0.0110)Gln+(-0.0058)Ala+(-0.0575)Cit+(0.0021)Orn+(-0.0706)Trp;0.848,0.869,0.821,0.887,0.846,0.891,0.853,0.869,(2.5115)+(-0.1010)Asn+(0.0112)Gln+(-0.0060)Ala+(-0.0567)Cit+(0.0021)Leu+(-0.0722)Trp;0.847,0.871,0.820,0.890,0.849,0.892,0.850,0.870,(2.5117)+(-0.0856)Asn+(0.0118)Gln+(-0.0051)Ala+(-0.0536)Cit+(-0.0683)Met+(-0.0633)Trp;0.847,0.872,0.836,0.889,0.848,0.900,0.855,0.873,(2.5945)+(-0.0937)Asn+(0.0118)Gln+(-0.0223)His+(-0.0050)Ala+(-0.0487)Cit+(-0.0610)Trp;0.847,0.867,0.816,0.894,0.829,0.878,0.866,0.867,(2.2693)+(-0.1096)Asn+(0.0092)Gln+(-0.0060)Ala+(-0.0061)Val+(0.0201)Phe+(-0.0668)Trp;0.847,0.868,0.804,0.890,0.844,0.880,0.850,0.866,(2.9468)+(-0.0090)Ser+(-0.0912)Asn+(0.0121)Gln+(-0.0062)Ala+(-0.0562)Cit+(-0.0724)Trp;0.846,0.867,0.805,0.889,0.841,0.882,0.855,0.867,(2.4617)+(-0.0897)Asn+(0.0121)Gln+(-0.0093)Thr+(-0.0056)Ala+(-0.0575)Cit+(-0.0664)Trp;0.846,0.869,0.838,0.886,0.858,0.874,0.842,0.865,(2.3818)+(-0.1068)Asn+(0.0100)Gln+(-0.0557)Cit+(-0.0062)Val+(0.0189)Phe+(-0.0831)Trp;0.846,0.868,0.793,0.

881,0.849,0.859,0.882,0.868,(3.3740)+(-0.0924)Asn+(-0.0110)Gly+(0.013
4)Gln+(-0.0052)Ala+(-0.0504)Cit+(-0.0788)Trp;0.845,0.867,0.823,0.888,
0.858,0.865,0.833,0.861,(2.0486)+(-0.1048)Asn+(0.0120)Gln+(-0.0596)Ci
t+(-0.0115)Pro+(0.0223)Phe+(-0.0965)Trp;0.845,0.868,0.845,0.882,0.852
,0.886,0.852,0.868,(2.8826)+(-0.1094)Asn+(0.0093)Gln+(-0.0522)Cit+(-0
.0094)Val+(0.0189)Ile+(-0.0729)Trp;0.845,0.865,0.828,0.888,0.820,0.89
2,0.878,0.869,(2.7136)+(-0.1154)Asn+(0.0087)Gln+(-0.0058)Ala+(-0.0098
)Val+(0.0238)Ile+(-0.0565)Trp;0.844,0.868,0.813,0.890,0.845,0.885,0.8
42,0.866,(2.5586)+(-0.0968)Asn+(0.0118)Gln+(-0.0057)Ala+(-0.0484)Cit+
(-0.0106)Arg+(-0.0667)Trp;0.844,0.867,0.858,0.875,0.859,0.877,0.856,0
.867,(1.9144)+(-0.0985)Asn+(0.0116)Gln+(-0.0373)His+(-0.0484)Cit+(0.0
186)Phe+(-0.0747)Trp;0.844,0.866,0.760,0.888,0.843,0.840,0.874,0.861,
(4.8087)+(-0.1039)Asn+(-0.0144)Gly+(0.0131)Gln+(-0.0103)Pro+(-0.0097)
Val+(-0.0762)Trp;0.844,0.864,0.788,0.884,0.842,0.828,0.884,0.860,(4.1
888)+(-0.1114)Asn+(-0.0146)Gly+(0.0118)Gln+(-0.0126)Val+(0.0169)Phe+(
-0.0789)Trp;0.844,0.865,0.835,0.886,0.847,0.873,0.844,0.863,(0.6243)+
(0.0108)Gln+(-0.0056)Ala+(-0.0583)Cit+(-0.1610)Met+(0.0336)Phe+(-0.07
79)Trp;0.844,0.866,0.807,0.872,0.861,0.838,0.879,0.862,(3.0000)+(-0.1
069)Asn+(-0.0115)Gly+(0.0129)Gln+(-0.0551)Cit+(0.0147)Phe+(-0.0994)Tr
p;0.844,0.865,0.837,0.882,0.859,0.865,0.832,0.860,(2.2031)+(-0.1074)A
sn+(0.0101)Gln+(-0.0594)Cit+(-0.0084)Leu+(0.0218)Phe+(-0.0870)Trp;0.8
43,0.864,0.838,0.875,0.861,0.863,0.840,0.860,(2.0925)+(-0.1115)Asn+(0
.0100)Gln+(-0.0612)Cit+(0.0157)Phe+(-0.0921)Trp;0.843,0.866,0.788,0.8
81,0.849,0.844,0.877,0.863,(4.3296)+(-0.0996)Asn+(-0.0132)Gly+(0.0130
)Gln+(-0.0442)Cit+(-0.0091)Val+(-0.0775)Trp;0.843,0.865,0.846,0.882,0
.836,0.879,0.873,0.867,(1.9077)+(-0.1020)Asn+(0.0111)Gln+(-0.0396)His
+(-0.0051)Ala+(0.0197)Phe+(-0.0605)Trp;0.843,0.862,0.797,0.869,0.857,
0.840,0.871,0.860,(3.5957)+(-0.1052)Asn+(-0.0118)Gly+(0.0126)Gln+(-0.

0529)Cit+(-0.0929)Trp;0.843,0.866,0.837,0.878,0.860,0.866,0.843,0.862,(1.9994)+(-0.1037)Asn+(0.0107)Gln+(-0.0608)Cit+(-0.0051)Lys+(0.0174)Phe+(-0.0879)Trp;0.843,0.861,0.815,0.885,0.827,0.866,0.864,0.860,(1.9633)+(-0.1140)Asn+(0.0092)Gln+(-0.0066)Ala+(0.0175)Phe+(-0.0750)Trp;0.843,0.865,0.828,0.894,0.845,0.856,0.838,0.858,(1.9014)+(-0.0885)Asn+(0.0107)Gln+(-0.0091)Val+(-0.1551)Met+(0.0330)Phe+(-0.0629)Trp;0.843,0.865,0.800,0.891,0.833,0.868,0.860,0.863,(2.0354)+(-0.1115)Asn+(0.0104)Gln+(-0.0053)Ala+(-0.0086)Pro+(0.0203)Phe+(-0.0792)Trp;0.843,0.865,0.776,0.886,0.834,0.853,0.883,0.864,(4.3559)+(-0.1025)Asn+(-0.0135)Gly+(0.0121)Gln+(-0.0040)Ala+(-0.0090)Val+(-0.0661)Trp;0.843,0.864,0.822,0.888,0.837,0.865,0.858,0.862,(1.2887)+(-0.0886)Asn+(0.0111)Gln+(-0.0052)Ala+(-0.1275)Met+(0.0289)Phe+(-0.0671)Trp;0.842,0.862,0.809,0.884,0.852,0.869,0.821,0.856,(2.9444)+(-0.1069)Asn+(0.0115)Gln+(-0.0567)Cit+(-0.0100)Pro+(-0.0861)Trp;0.842,0.864,0.773,0.882,0.850,0.820,0.878,0.858,(3.4727)+(-0.1125)Asn+(-0.0128)Gly+(0.0130)Gln+(-0.0131)Pro+(0.0163)Phe+(-0.1001)Trp;0.842,0.865,0.810,0.882,0.859,0.871,0.827,0.860,(2.7620)+(-0.1110)Asn+(0.0115)Gln+(-0.0572)Cit+(-0.0106)Pro+(0.0112)Tyr+(-0.0905)Trp;0.842,0.860,0.776,0.880,0.839,0.831,0.876,0.856,(4.7447)+(-0.1110)Asn+(-0.0145)Gly+(0.0116)Gln+(-0.0116)Val+(-0.0727)Trp;0.842,0.866,0.803,0.894,0.844,0.863,0.840,0.860,(2.6868)+(-0.1155)Asn+(0.0097)Gln+(-0.0111)Pro+(-0.0071)Val+(0.0204)Phe+(-0.0795)Trp;0.842,0.859,0.825,0.885,0.840,0.850,0.836,0.853,(2.7694)+(-0.1211)Asn+(0.0079)Gln+(-0.0087)Val+(0.0162)Phe+(-0.0747)Trp;0.842,0.865,0.857,0.877,0.854,0.863,0.853,0.862,(1.4326)+(-0.0806)Asn+(0.0122)Gln+(-0.0417)His+(-0.1327)Met+(0.0285)Phe+(-0.0597)Trp;0.842,0.865,0.790,0.876,0.856,0.841,0.867,0.860,(4.0160)+(-0.0989)Asn+(-0.0126)Gly+(0.0126)Gln+(-0.0502)Cit+(-0.0085)Leu+(-0.0855)Trp;0.842,0.862,0.828,0.879,0.856,0.871,0.824,0.858,(2.6469)+(-0.0905)Asn+(0.0110)Gln+(-0.0547)Cit+(

-0.0953)Met+(-0.0724)Trp;0.842,0.859,0.830,0.873,0.853,0.865,0.831,0.855,(2.7424)+(-0.1124)Asn+(0.0099)Gln+(-0.0593)Cit+(-0.0850)Trp;0.842,0.862,0.791,0.879,0.840,0.841,0.881,0.860,(4.4765)+(0.0106)Ser+(-0.1173)Asn+(-0.0166)Gly+(0.0111)Gln+(-0.0116)Val+(-0.0712)Trp;0.842,0.862,0.840,0.882,0.837,0.868,0.859,0.861,(2.6309)+(-0.1229)Asn+(0.0075)Gln+(-0.0125)Val+(0.0183)Ile+(0.0140)Phe+(-0.0711)Trp;0.842,0.866,0.764,0.886,0.842,0.843,0.878,0.862,(3.8741)+(-0.1013)Asn+(-0.0126)Gly+(0.0130)Gln+(-0.0040)Ala+(-0.0094)Pro+(-0.0831)Trp;0.842,0.864,0.816,0.889,0.830,0.870,0.862,0.863,(2.0567)+(-0.1122)Asn+(0.0092)Gln+(-0.0063)Ala+(-0.0049)Leu+(0.0206)Phe+(-0.0720)Trp;0.842,0.864,0.807,0.869,0.858,0.844,0.876,0.862,(3.3874)+(0.0083)Ser+(-0.1115)Asn+(-0.0134)Gly+(0.0122)Gln+(-0.0519)Cit+(-0.0914)Trp;0.842,0.864,0.802,0.886,0.831,0.882,0.861,0.865,(2.8366)+(-0.1181)Asn+(0.0090)Gln+(-0.0057)Ala+(0.0141)Tyr+(-0.0059)Val+(-0.0636)Trp;0.841,0.861,0.822,0.865,0.851,0.839,0.889,0.861,(3.1733)+(-0.1020)Asn+(-0.0120)Gly+(0.0133)Gln+(-0.0464)His+(0.0135)Phe+(-0.0757)Trp;0.841,0.860,0.803,0.889,0.823,0.879,0.850,0.860,(3.0004)+(-0.1129)Asn+(0.0090)Gln+(-0.0055)Ala+(-0.0050)Val+(-0.0602)Trp;0.841,0.862,0.793,0.878,0.833,0.844,0.891,0.861,(4.4905)+(-0.1142)Asn+(-0.0146)Gly+(0.0114)Gln+(-0.0160)Val+(0.0206)Ile+(-0.0692)Trp;0.841,0.867,0.830,0.875,0.868,0.873,0.838,0.864,(2.2861)+(-0.0896)Asn+(0.0110)Gln+(-0.0546)Cit+(0.0182)Tyr+(-0.1193)Met+(-0.0774)Trp;0.841,0.865,0.799,0.876,0.857,0.846,0.864,0.861,(3.4698)+(-0.0755)Asn+(-0.0117)Gly+(0.0135)Gln+(-0.0485)Cit+(-0.0992)Met+(-0.0816)Trp;0.841,0.864,0.815,0.888,0.830,0.882,0.860,0.865,(2.9758)+(-0.1205)Asn+(0.0094)Gln+(-0.0134)Pro+(-0.0128)Val+(0.0353)Ile+(-0.0680)Trp;0.841,0.862,0.789,0.878,0.838,0.840,0.887,0.861,(3.0725)+(-0.1084)Asn+(-0.0117)Gly+(0.0120)Gln+(-0.0057)Ala+(0.0132)Phe+(-0.0835)Trp;0.841,0.864,0.836,0.881,0.846,0.869,0.853,0.862,(2.2038)+(-0.1030)Asn+(0.0119)Gln

+(-0.0465)His+(-0.0109)Pro+(0.0215)Phe+(-0.0702)Trp;0.841,0.862,0.781,0.880,0.836,0.835,0.887,0.859,(4.5981)+(-0.1133)Asn+(-0.0147)Gly+(0.0120)Gln+(-0.0199)Val+(0.0168)Leu+(-0.0749)Trp;0.841,0.862,0.798,0.874,0.842,0.846,0.881,0.861,(4.4317)+(-0.0987)Asn+(-0.0137)Gly+(0.0130)Gln+(-0.0332)His+(-0.0082)Val+(-0.0618)Trp;0.841,0.865,0.792,0.876,0.848,0.848,0.880,0.863,(4.0089)+(-0.0908)Asn+(-0.0127)Gly+(0.0142)Gln+(-0.0390)His+(-0.0108)Pro+(-0.0739)Trp;0.841,0.862,0.810,0.875,0.856,0.831,0.864,0.856,(2.0237)+(-0.0118)Gly+(0.0125)Gln+(-0.0536)Cit+(-0.1846)Met+(0.0262)Phe+(-0.0934)Trp;0.841,0.856,0.800,0.881,0.821,0.871,0.852,0.856,(2.6648)+(-0.1149)Asn+(0.0090)Gln+(-0.0062)Ala+(-0.0680)Trp;0.841,0.858,0.812,0.863,0.846,0.842,0.882,0.858,(3.7353)+(-0.0993)Asn+(-0.0124)Gly+(0.0130)Gln+(-0.0445)His+(-0.0709)Trp;0.841,0.866,0.819,0.878,0.855,0.884,0.847,0.866,(1.5472)+(0.0097)Gln+(-0.0061)Ala+(-0.0560)Cit+(0.0283)Tyr+(-0.1648)Met+(-0.0744)Trp;0.841,0.866,0.827,0.884,0.853,0.882,0.836,0.864,(2.9297)+(-0.0966)Asn+(0.0124)Gln+(-0.0298)His+(-0.0464)Cit+(-0.0091)Pro+(-0.0702)Trp;0.841,0.865,0.804,0.874,0.843,0.859,0.889,0.866,(3.5734)+(-0.0925)Asn+(-0.0119)Gly+(0.0133)Gln+(-0.0357)His+(-0.0042)Ala+(-0.0643)Trp;0.841,0.862,0.819,0.882,0.837,0.871,0.854,0.861,(2.7968)+(-0.0916)Asn+(0.0109)Gln+(-0.0255)Val+(-0.1691)Met+(0.0379)Leu+(-0.0530)Trp;0.841,0.861,0.844,0.870,0.852,0.877,0.843,0.860,(2.7090)+(-0.1006)Asn+(0.0112)Gln+(-0.0339)His+(-0.0474)Cit+(-0.0674)Trp;0.841,0.863,0.804,0.877,0.854,0.820,0.874,0.856,(2.6558)+(-0.0831)Asn+(-0.0119)Gly+(0.0128)Gln+(-0.1449)Met+(0.0233)Phe+(-0.0864)Trp;0.841,0.862,0.825,0.882,0.850,0.870,0.826,0.857,(3.0838)+(-0.1087)Asn+(0.0098)Gln+(-0.0545)Cit+(-0.0051)Val+(-0.0762)Trp;0.841,0.860,0.779,0.877,0.834,0.842,0.881,0.859,(3.6115)+(-0.1058)Asn+(-0.0121)Gly+(0.0118)Gln+(-0.0055)Ala+(-0.0788)Trp;0.841,0.864,0.813,0.868,0.856,0.849,0.882,0.864,(3.5123)+(-0.0906)Asn+(-0.0116)Gly+(0.0

138)Gln+(-0.0336)His+(-0.0414)Cit+(-0.0760)Trp;0.841,0.863,0.828,0.875,0.860,0.856,0.838,0.858,(2.3351)+(-0.0052)Ser+(-0.1066)Asn+(0.0105)Gln+(-0.0614)Cit+(0.0147)Phe+(-0.0933)Trp;0.841,0.864,0.797,0.872,0.858,0.842,0.872,0.861,(3.5957)
+(-0.1014)Asn+(-0.0117)Gly+(0.0128)Gln+(-0.0525)Cit+(-0.0022)Lys+(-0.0909)Trp;0.840,0.865,0.809,0.889,0.852,0.878,0.818,0.859,(3.1554)+(-0.1054)Asn+(0.0114)Gln+(-0.0536)Cit+(-0.0093)Pro+(-0.0034)Val+(-0.0801)Trp;0.840,0.861,0.763,0.880,0.846,0.824,0.871,0.855,(4.1032)+(-0.1091)Asn+(-0.0132)Gly+(0.0127)Gln+(-0.0122)Pro+(-0.0937)Trp;0.840,0.863,0.820,0.879,0.853,0.870,0.836,0.859,(2.5764)+(-0.1086)Asn+(0.0115)Gln+(-0.0578)Cit+(-0.0123)Pro+(0.0157)Ile+(-0.0898)Trp;0.840,0.863,0.835,0.877,0.859,0.862,0.836,0.858,(2.1404)+(-0.1108)Asn+(0.0101)Gln+(-0.0611)Cit+(-0.0034)Ile+(0.0166)Phe+(-0.0918)Trp;0.840,0.865,0.837,0.876,0.860,0.872,0.838,0.862,(2.3981)+(-0.0898)Asn+(0.0108)Gln+(-0.0551)Cit+(-0.1062)Met+(0.0096)Ile+(-0.0728)Trp;0.840,0.864,0.821,0.884,0.854,0.877,0.821,0.859,(2.9704)+(-0.0901)Asn+(0.0110)Gln+(-0.0504)Cit+(-0.0048)Val+(-0.0906)Met+(-0.0644)Trp;0.840,0.864,0.828,0.882,0.850,0.875,0.839,0.861,(2.9830)+(-0.1095)Asn+(0.0099)Gln+(-0.0531)Cit+(-0.0103)Val+(0.0105)Leu+(-0.0777)Trp;0.840,0.862,0.813,0.888,0.819,0.883,0.867,0.865,(2.8107)+(-0.1126)Asn+(0.0093)Gln+(-0.0058)Ala+(-0.0129)Val+(0.0169)Leu+(-0.0631)Trp;0.840,0.862,0.804,0.887,0.826,0.860,0.871,0.861,(1.8017)+(-0.1065)Asn+(0.0101)Gln+(-0.0086)Thr+(-0.0064)Ala+(0.0189)Phe+(-0.0711)Trp;0.840,0.864,0.808,0.886,0.853,0.873,0.820,0.858,(2.9330)+(-0.1036)Asn+(0.0117)Gln+(-0.0563)Cit+(-0.0098)Pro+(-0.0023)Lys+(-0.0838)Trp;0.840,0.862,0.815,0.886,0.828,0.867,0.864,0.861,(1.9363)+(-0.1104)Asn+(0.0096)Gln+(-0.0065)Ala+(-0.0026)Lys+(0.0179)Phe+(-0.0729)Trp;0.840,0.859,0.830,0.877,0.829,0.881,0.859,0.861,(2.7153)+(-0.1033)Asn+(0.0106)Gln+(-0.0369)His+(-0.0048)Ala+(-0.0530)Trp;0.8

40,0.861,0.828,0.876,0.855,0.870,0.830,0.857,(2.7362)+(-0.1068)Asn+(0.0103)Gln+(-0.0587)Cit+(-0.0038)Lys+(-0.0812)Trp;0.840,0.862,0.791,0.872,0.857,0.833,0.867,0.857,(3.7777)+(-0.1036)Asn+(-0.0120)Gly+(0.0128)Gln+(-0.0523)Cit+(-0.0061)Ile+(-0.0918)Trp;0.840,0.861,0.791,0.887,0.837,0.825,0.869,0.854,(3.0237)+(-0.0139)Gly+(0.0114)Gln+(-0.0117)Val+(-0.1910)Met+(0.0295)Phe+(-0.0774)Trp;0.840,0.860,0.818,0.882,0.826,0.865,0.867,0.860,(1.8745)+(-0.1149)Asn+(0.0092)Gln+(-0.0068)Ala+(0.0049)Ile+(0.0165)Phe+(-0.0754)Trp;0.840,0.863,0.852,0.883,0.836,0.878,0.856,0.863,(0.8547)+(0.0106)Gln+(-0.0386)His+(-0.0043)Ala+(-0.1722)Met+(0.0308)Phe+(-0.0594)Trp;0.840,0.861,0.786,0.879,0.848,0.811,0.873,0.853,(3.8030)+(-0.1144)Asn+(-0.0137)Gly+(0.0112)Gln+(-0.0143)Leu+(0.0193)Phe+(-0.0882)Trp;0.840,0.859,0.831,0.873,0.854,0.865,0.831,0.856,(2.7159)+(-0.1126)Asn+(0.0098)Gln+(-0.0594)Cit+(0.0010)Ile+(-0.0852)Trp;0.840,0.860,0.804,0.889,0.831,0.859,0.840,0.855,(1.7534)+(-0.1031)Asn+(0.0114)Gln+(-0.0064)Ala+(-0.0225)Arg+(0.0201)Phe+(-0.0691)Trp;0.839,0.862,0.839,0.879,0.836,0.879,0.857,0.863,(2.7140)+(-0.0976)Asn+(0.0093)Gln+(-0.0150)Val+(-0.1446)Met+(0.0379)Ile+(-0.0438)Trp

[0339] ［実施例４で探索された線形判別式の一覧（その１）］

以下に、前述した実施例４で探索された線形判別式を列挙する。なお、式の前には、その式について得られた、「バリデーション有りでの膵臓癌群と他癌群のＲＯＣ＿ＡＵＣの値」、「バリデーション無しでの膵臓癌群と他癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と健常群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣの値」、および「膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣの値の平均値」を、さらに列挙する。

[0340] 0.859,0.874,0.841,0.890,0.853,0.883,0.868,0.873,(5.4468)+(-0.1111)Asn+(0.0122)Gln+(-0.0083)Ala+(-0.0524)Cit+(0.0345)Phe+(-0.1015)Trp;0.859,0.874,0.808,0.889,0.852,0.878,0.878,0.874,(6.8056)+(-0.0977)Asn+(-0.0069)Gly+(0.0132)Gln+(-0.0072)Ala+(-0.0462)Cit+(-0.0919)Trp;0.858,0.874,0.848,0.892,0.863,0.868,0.854,0.869,(5.6035)+(-0.1337)Asn+(0.0116)Gln+(-0.0452)Cit+(-0.0098)Val+(0.0408)Phe+(-0.1050)Trp;0.858,0.872,0.849,0.895,0.857,0.859,0.854,0.866,(4.8108)+(-0.0961)Asn+(0.0115)Gln+(-0.0125)Val+(-0.1461)Met+(0.0663)Phe+(-0.0971)Trp;0.858,0.871,0.811,0.894,0.844,0.895,0.848,0.870,(6.5042)+(-0.1023)Asn+(0.0128)Gln+(-0.0067)Ala+(-0.0490)Cit+(-0.0066)Pro+(-0.0903)Trp;0.857,0.869,0.822,0.890,0.843,0.891,0.854,0.869,(6.4072)+(-0.1027)Asn+(0.0120)Gln+(-0.0080)Ala+(-0.0507)Cit+(-0.0876)Trp;0.857,0.872,0.800,0.888,0.861,0.855,0.864,0.867,(6.7332)+(-0.1105)Asn+(-0.0083)Gly+(0.0144)Gln+(-0.0439)Cit+(-0.0102)Pro+(-0.1075)Trp;0.857,0.874,0.857,0.886,0.869,0.867,0.853,0.869,(4.0729)+(-0.0942)Asn+(0.0132)Gln+(-0.0523)Cit+(-0.1417)Met+(0.0541)Phe+(-0.1117)Trp;0.856,0.870,0.833,0.885,0.844,0.894,0.868,0.873,(6.1244)+(-0.1050)Asn+(0.0118)Gln+(-0.0087)Ala+(-0.0540)Cit+(0.0138)Ile+(-0.0889)Trp;0.856,0.871,0.823,0.891,0.846,0.894,0.852,0.871,(6.2462)+(-0.0877)Asn+(0.0125)Gln+(-0.0073)Ala+(-0.0497)Cit+(-0.0524)Met+(-0.0833)Trp;0.856,0.872,0.835,0.890,0.845,0.901,0.860,0.874,(6.4966)+(-0.0951)Asn+(0.0128)Gln+(-0.0248)His+(-0.0074)Ala+(-0.0456)Cit+(-0.0771)Trp;0.856,0.870,0.823,0.896,0.850,0.858,0.851,0.864,(5.8194)+(-0.1324)Asn+(0.0113)Gln+(-0.0106)Pro+(-0.0108)Val+(0.0473)Phe+(-0.1078)Trp;0.855,0.869,0.829,0.895,0.833,0.878,0.871,0.869,(5.9985)+(-0.1172)Asn+(0.0101)Gln+(-0.0073)Ala+(-0.0092)Val+(0.0417)Phe+(-0.0931)Trp;0.855,0.870,0.795,0.892,0.838,0.868,0.880,0.870,(7.5122)+(-0.1003)Asn+(-0.0083)Gly+(0.0116)Gln+(-0.0061)Ala+(-0.0076)Val+(-0.0835)Trp;0.855,0.872,0.824,0.885,0.851,0.890,0.868,0.873,(6.2747)+(-0.1094)Asn+(0.011

7)Gln+(-0.0086)Ala+(-0.0521)Cit+(0.0214)Tyr+(-0.0981)Trp;0.855,0.869,0.821,0.890,0.843,0.891,0.853,0.869,(6.4558)+(-0.1023)Asn+(0.0119)Gln+(-0.0079)Ala+(-0.0503)Cit+(-0.0012)Leu+(-0.0868)Trp;0.855,0.871,0.867,0.879,0.863,0.872,0.864,0.870,(5.1147)+(-0.1213)Asn+(0.0130)Gln+(-0.0367)His+(-0.0468)Cit+(0.0353)Phe+(-0.1017)Trp;0.855,0.870,0.815,0.891,0.844,0.889,0.855,0.870,(6.5195)+(-0.0041)Ser+(-0.0995)Asn+(0.0124)Gln+(-0.0080)Ala+(-0.0513)Cit+(-0.0879)Trp;0.855,0.871,0.819,0.892,0.845,0.896,0.850,0.871,(6.5601)+(-0.0953)Asn+(0.0126)Gln+(-0.0077)Ala+(-0.0510)Cit+(-0.0059)Lys+(-0.0835)Trp;0.855,0.872,0.828,0.879,0.869,0.845,0.876,0.867,(5.7732)+(-0.1237)Asn+(-0.0073)Gly+(0.0129)Gln+(-0.0488)Cit+(0.0224)Phe+(-0.1163)Trp;0.855,0.870,0.814,0.890,0.842,0.890,0.858,0.870,(6.2561)+(-0.0961)Asn+(0.0126)Gln+(-0.0058)Thr+(-0.0078)Ala+(-0.0496)Cit+(-0.0857)Trp;0.855,0.870,0.845,0.887,0.866,0.860,0.843,0.864,(5.3112)+(-0.1294)Asn+(0.0115)Gln+(-0.0500)Cit+(-0.0135)Leu+(0.0430)Phe+(-0.1112)Trp;0.855,0.871,0.815,0.881,0.864,0.858,0.864,0.867,(6.2662)+(-0.0895)Asn+(-0.0081)Gly+(0.0138)Gln+(-0.0452)Cit+(-0.0844)Met+(-0.0980)Trp;0.855,0.868,0.814,0.875,0.865,0.848,0.867,0.864,(6.4563)+(-0.1169)Asn+(-0.0081)Gly+(0.0129)Gln+(-0.0471)Cit+(-0.1070)Trp;0.854,0.870,0.832,0.888,0.862,0.863,0.845,0.865,(5.1434)+(-0.1290)Asn+(0.0132)Gln+(-0.0512)Cit+(-0.0113)Pro+(0.0381)Phe+(-0.1204)Trp;0.854,0.870,0.807,0.887,0.855,0.856,0.868,0.866,(7.1793)+(-0.1140)Asn+(-0.0086)Gly+(0.0129)Gln+(-0.0388)Cit+(-0.0081)Val+(-0.0938)Trp;0.854,0.870,0.818,0.890,0.850,0.834,0.880,0.864,(6.6708)+(-0.1247)Asn+(-0.0086)Gly+(0.0115)Gln+(-0.0129)Val+(0.0332)Phe+(-0.1013)Trp;0.854,0.870,0.821,0.893,0.842,0.892,0.851,0.870,(6.6454)+(-0.1031)Asn+(0.0119)Gln+(-0.0075)Ala+(-0.0478)Cit+(-0.0031)Val+(-0.0833)Trp;0.854,0.869,0.819,0.891,0.844,0.888,0.852,0.869,(6.3509)+(-0.1005)Asn+(0.0122)Gln+(-0.0079)Ala+(-0.0480)Cit+(-0.0040)Arg+(-0.0868)Trp;0.854,0.868,0.785

,0.890,0.841,0.861,0.873,0.866,(7.0517)+(-0.0993)Asn+(-0.0082)Gly+(0.0125)Gln+(-0.0058)Ala+(-0.0081)Pro+(-0.0971)Trp;0.854,0.871,0.844,0.882,0.869,0.872,0.848,0.868,(5.2217)+(-0.1212)Asn+(0.0126)Gln+(-0.0549)Cit+(-0.0099)Lys+(0.0351)Phe+(-0.1109)Trp;0.854,0.869,0.810,0.885,0.842,0.857,0.889,0.868,(6.1928)+(-0.1069)Asn+(-0.0070)Gly+(0.0112)Gln+(-0.0077)Ala+(0.0243)Phe+(-0.1030)Trp;0.854,0.869,0.846,0.883,0.850,0.887,0.859,0.870,(6.4355)+(-0.1302)Asn+(0.0110)Gln+(-0.0463)Cit+(-0.0135)Val+(0.0270)Ile+(-0.0871)Trp;0.853,0.867,0.846,0.878,0.865,0.857,0.850,0.862,(5.0782)+(-0.1336)Asn+(0.0116)Gln+(-0.0542)Cit+(0.0302)Phe+(-0.1166)Trp;0.853,0.869,0.849,0.886,0.838,0.886,0.877,0.872,(5.5655)+(-0.1034)Asn+(0.0115)Gln+(-0.0376)His+(-0.0077)Ala+(0.0371)Phe+(-0.0878)Trp;0.853,0.869,0.817,0.882,0.842,0.875,0.886,0.871,(7.0111)+(-0.0902)Asn+(-0.0076)Gly+(0.0127)Gln+(-0.0318)His+(-0.0066)Ala+(-0.0799)Trp;0.853,0.870,0.826,0.890,0.845,0.891,0.853,0.870,(6.3910)+(-0.1037)Asn+(0.0118)Gln+(-0.0080)Ala+(-0.0544)Cit+(0.0051)Orn+(-0.0878)Trp;0.853,0.866,0.794,0.884,0.838,0.860,0.879,0.865,(6.9138)+(-0.1003)Asn+(-0.0078)Gly+(0.0113)Gln+(-0.0073)Ala+(-0.0936)Trp;0.853,0.868,0.807,0.883,0.861,0.849,0.859,0.863,(6.9047)+(-0.1110)Asn+(-0.0086)Gly+(0.0129)Gln+(-0.0434)Cit+(-0.0093)Leu+(-0.0997)Trp;0.853,0.869,0.874,0.880,0.860,0.865,0.863,0.867,(4.2094)+(-0.0824)Asn+(0.0129)Gln+(-0.0437)His+(-0.1432)Met+(0.0582)Phe+(-0.0944)Trp;0.853,0.866,0.818,0.884,0.840,0.859,0.881,0.866,(7.3959)+(-0.1216)Asn+(-0.0093)Gly+(0.0111)Gln+(-0.0164)Val+(0.0236)Ile+(-0.0865)Trp;0.853,0.869,0.835,0.873,0.873,0.872,0.845,0.866,(5.4341)+(-0.0983)Asn+(0.0123)Gln+(-0.0521)Cit+(0.0295)Tyr+(-0.1187)Met+(-0.1073)Trp;0.853,0.869,0.784,0.892,0.847,0.846,0.866,0.863,(7.5590)+(-0.1102)Asn+(-0.0095)Gly+(0.0129)Gln+(-0.0095)Pro+(-0.0086)Val+(-0.0949)Trp;0.853,0.868,0.849,0.882,0.854,0.863,0.862,0.865,(5.2900)+(-0.1174)Asn+(0.0130)Gln+(-0.0434)His+(-0.0116)Pro+

(0.0422)Phe+(-0.1034)Trp;0.853,0.867,0.842,0.878,0.862,0.874,0.843,0.864,(5.4579)+(-0.0978)Asn+(0.0123)Gln+(-0.0533)Cit+(-0.0961)Met+(0.0109)Ile+(-0.0958)Trp;0.852,0.869,0.811,0.880,0.862,0.854,0.865,0.866,(6.6439)+(-0.1073)Asn+(-0.0078)Gly+(0.0136)Gln+(-0.0476)Cit+(-0.0071)Lys+(-0.1013)Trp;0.852,0.868,0.837,0.888,0.841,0.867,0.872,0.867,(4.7054)+(-0.0857)Asn+(0.0111)Gln+(-0.0073)Ala+(-0.1151)Met+(0.0507)Phe+(-0.1001)Trp;0.852,0.865,0.831,0.880,0.860,0.871,0.829,0.860,(5.7466)+(-0.0986)Asn+(0.0123)Gln+(-0.0508)Cit+(-0.0827)Met+(-0.0949)Trp;0.852,0.867,0.835,0.894,0.852,0.859,0.835,0.860,(5.5823)+(-0.1259)Asn+(0.0113)Gln+(-0.0161)Arg+(-0.0125)Val+(0.0434)Phe+(-0.0987)Trp;0.852,0.868,0.800,0.889,0.848,0.849,0.865,0.863,(7.2108)+(-0.0903)Asn+(-0.0095)Gly+(0.0123)Gln+(-0.0096)Val+(-0.0783)Met+(-0.0846)Trp;0.852,0.867,0.848,0.880,0.860,0.881,0.842,0.866,(5.9090)+(-0.0895)Asn+(0.0133)Gln+(-0.0300)His+(-0.0446)Cit+(-0.0765)Met+(-0.0816)Trp;0.852,0.866,0.816,0.889,0.835,0.871,0.864,0.865,(5.5582)+(-0.1148)Asn+(0.0110)Gln+(-0.0070)Ala+(-0.0086)Pro+(0.0373)Phe+(-0.1075)Trp;0.852,0.865,0.834,0.888,0.817,0.899,0.879,0.871,(6.8490)+(-0.1135)Asn+(0.0094)Gln+(-0.0080)Ala+(-0.0143)Val+(0.0341)Ile+(-0.0726)Trp;0.852,0.867,0.798,0.885,0.840,0.862,0.877,0.866,(6.7264)+(-0.0818)Asn+(-0.0079)Gly+(0.0120)Gln+(-0.0065)Ala+(-0.0637)Met+(-0.0885)Trp;0.852,0.867,0.807,0.882,0.839,0.867,0.885,0.868,(6.7520)+(0.0088)Ser+(-0.1060)Asn+(-0.0093)Gly+(0.0106)Gln+(-0.0071)Ala+(-0.0937)Trp;0.852,0.866,0.790,0.886,0.836,0.859,0.880,0.865,(6.9225)+(-0.0986)Asn+(-0.0076)Gly+(0.0117)Gln+(-0.0073)Ala+(-0.0072)Orn+(-0.0931)Trp;0.852,0.867,0.793,0.888,0.838,0.861,0.875,0.865,(7.2368)+(-0.0971)Asn+(-0.0083)Gly+(0.0114)Gln+(-0.0067)Ala+(-0.0075)Leu+(-0.0889)Trp;0.851,0.866,0.816,0.880,0.842,0.883,0.865,0.867,(5.9813)+(-0.0886)Asn+(0.0102)Gln+(-0.0078)Ala+(0.0314)Tyr+(-0.0958)Met+(-0.0966)Trp;0.851,0.869,0.799,0.887,0.856,0.830,0.873,0.862,(6.

0449)+(-0.1207)Asn+(-0.0084)Gly+(0.0128)Gln+(-0.0119)Pro+(0.0274)Phe+(-0.1208)Trp;0.851,0.867,0.843,0.878,0.865,0.856,0.849,0.862,(5.1230)+(-0.0012)Ser+(-0.1325)Asn+(0.0117)Gln+(-0.0544)Cit+(0.0298)Phe+(-0.1166)Trp;0.851,0.864,0.799,0.885,0.845,0.842,0.867,0.860,(7.4786)+(-0.1154)Asn+(-0.0095)Gly+(0.0115)Gln+(-0.0106)Val+(-0.0913)Trp;0.851,0.868,0.825,0.875,0.862,0.854,0.871,0.866,(6.3238)+(0.0080)Ser+(-0.1217)Asn+(-0.0094)Gly+(0.0122)Gln+(-0.0451)Cit+(-0.1068)Trp;0.851,0.868,0.845,0.887,0.846,0.877,0.856,0.866,(3.8638)+(0.0111)Gln+(-0.0080)Ala+(-0.0523)Cit+(-0.1680)Met+(0.0550)Phe+(-0.1007)Trp;0.851,0.864,0.850,0.885,0.839,0.861,0.864,0.863,(5.8647)+(-0.1415)Asn+(0.0093)Gln+(-0.0178)Val+(0.0218)Ile+(0.0387)Phe+(-0.0969)Trp;0.851,0.866,0.804,0.885,0.843,0.849,0.875,0.863,(7.4605)+(-0.1204)Asn+(-0.0092)Gly+(0.0116)Gln+(-0.0167)Val+(0.0117)Leu+(-0.0904)Trp;0.851,0.866,0.826,0.890,0.834,0.869,0.864,0.864,(5.7369)+(-0.1126)Asn+(0.0098)Gln+(-0.0078)Ala+(-0.0113)Leu+(0.0425)Phe+(-0.0985)Trp;0.851,0.868,0.817,0.875,0.866,0.851,0.868,0.865,(6.4428)+(-0.1177)Asn+(-0.0081)Gly+(0.0127)Gln+(-0.0500)Cit+(0.0040)Orn+(-0.1073)Trp;0.851,0.869,0.828,0.875,0.861,0.861,0.873,0.868,(6.5996)+(-0.1055)Asn+(-0.0079)Gly+(0.0140)Gln+(-0.0311)His+(-0.0407)Cit+(-0.0925)Trp;0.851,0.867,0.830,0.884,0.855,0.882,0.837,0.865,(6.3333)+(-0.1084)Asn+(0.0139)Gln+(-0.0305)His+(-0.0434)Cit+(-0.0096)Pro+(-0.0899)Trp;0.851,0.866,0.817,0.880,0.848,0.855,0.874,0.864,(7.3317)+(-0.1066)Asn+(-0.0091)Gly+(0.0125)Gln+(-0.0265)His+(-0.0076)Val+(-0.0836)Trp;0.851,0.867,0.842,0.879,0.865,0.854,0.846,0.861,(5.1442)+(-0.1324)Asn+(0.0116)Gln+(-0.0530)Cit+(-0.0053)Ile+(0.0323)Phe+(-0.1164)Trp;0.851,0.865,0.824,0.887,0.834,0.874,0.869,0.866,(5.6780)+(-0.1058)Asn+(0.0105)Gln+(-0.0082)Ala+(-0.0075)Lys+(0.0355)Phe+(-0.0981)Trp;0.851,0.867,0.799,0.884,0.853,0.841,0.869,0.862,(6.6764)+(0.0097)Ser+(-0.1188)Asn+(-0.0107)Gly+(0.0119)Gln+(-0.0107)Pro+(-0.1090)Tr

p;0.851,0.868,0.815,0.874,0.867,0.850,0.871,0.865,(6.4098)+(-0.1188)Asn+(-0.0079)Gly+(0.0128)Gln+(-0.0476)Cit+(0.0044)Tyr+(-0.1093)Trp;0.851,0.864,0.814,0.885,0.854,0.868,0.827,0.858,(6.1918)+(-0.1194)Asn+(0.0128)Gln+(-0.0497)Cit+(-0.0099)Pro+(-0.1041)Trp;0.851,0.866,0.794,0.887,0.841,0.859,0.869,0.864,(6.7304)+(-0.0935)Asn+(-0.0075)Gly+(0.0123)Gln+(-0.0071)Ala+(-0.0112)Arg+(-0.0910)Trp;0.851,0.867,0.832,0.889,0.855,0.846,0.849,0.860,(4.3755)+(-0.0986)Asn+(0.0122)Gln+(-0.0101)Pro+(-0.1241)Met+(0.0556)Phe+(-0.1163)Trp;0.850,0.864,0.827,0.885,0.851,0.871,0.830,0.859,(6.5123)+(
-0.1234)Asn+(0.0114)Gln+(-0.0460)Cit+(-0.0068)Val+(-0.0925)Trp;0.850,0.866,0.793,0.884,0.838,0.863,0.876,0.865,(7.0363)+(-0.0941)Asn+(-0.0077)Gly+(0.0117)Gln+(-0.0071)Ala+(-0.0050)Lys+(-0.0900)Trp;0.850,0.866,0.844,0.872,0.857,0.844,0.885,0.865,(5.9570)+(-0.1120)Asn+(-0.0078)Gly+(0.0127)Gln+(-0.0419)His+(0.0257)Phe+(-0.0997)Trp;0.850,0.865,0.846,0.886,0.857,0.843,0.842,0.857,(4.4720)+(-0.0960)Asn+(0.0109)Gln+(-0.1334)Met+(-0.0129)Leu+(0.0625)Phe+(-0.1073)Trp;0.850,0.865,0.827,0.887,0.839,0.874,0.852,0.863,(6.3928)+(-0.1011)Asn+(0.0112)Gln+(-0.0255)Val+(-0.1199)Met+(0.0330)Leu+(-0.0768)Trp;0.850,0.866,0.812,0.890,0.852,0.877,0.825,0.861,(6.5916)+(-0.1185)Asn+(0.0127)Gln+(-0.0451)Cit+(-0.0091)Pro+(-0.0050)Val+(-0.0959)Trp;0.850,0.866,0.814,0.884,0.856,0.820,0.871,0.858,(6.3242)+(-0.1193)Asn+(-0.0088)Gly+(0.0111)Gln+(-0.0179)Leu+(0.0357)Phe+(-0.1095)Trp;0.850,0.866,0.796,0.884,0.838,0.859,0.881,0.866,(6.8599)+(-0.1008)Asn+(-0.0077)Gly+(0.0112)Gln+(-0.0075)Ala+(0.0024)Ile+(-0.0938)Trp;0.850,0.864,0.851,0.882,0.836,0.883,0.859,0.865,(6.2583)+(-0.0987)Asn+(0.0101)Gln+(-0.0189)Val+(-0.1205)Met+(0.0438)Ile+(-0.0702)Trp;0.850,0.868,0.810,0.878,0.864,0.847,0.864,0.863,(6.3784)+(-0.1133)Asn+(-0.0080)Gly+(0.0133)Gln+(-0.0433)Cit+(-0.0057)Arg+(-0.1056)Trp;0.850,0.866,0.808,0.881,0.851,0.852,0.871,0.864,

(6.9842)+(-0.0997)Asn+(-0.0088)Gly+(0.0142)Gln+(-0.0358)His+(-0.0104)Pro+(-0.0923)Trp;0.850,0.867,0.789,0.887,0.852,0.843,0.863,0.861,(6.6608)+(-0.0924)Asn+(-0.0092)Gly+(0.0132)Gln+(-0.0095)Pro+(-0.0657)Met+(-0.1023)Trp;0.850,0.865,0.801,0.883,0.847,0.844,0.870,0.861,(7.4326)+(-0.1188)Asn+(-0.0092)Gly+(0.0113)Gln+(0.0083)Tyr+(-0.0111)Val+(-0.0950)Trp;0.850,0.866,0.821,0.879,0.849,0.888,0.854,0.868,(5.2240)+(0.0101)Gln+(-0.0086)Ala+(-0.0521)Cit+(0.0339)Tyr+(-0.1490)Met+(-0.0969)Trp;0.850,0.866,0.809,0.886,0.834,0.884,0.865,0.867,(6.8770)+(-0.1141)Asn+(0.0095)Gln+(-0.0078)Ala+(0.0231)Tyr+(-0.0073)Val+(-0.0901)Trp;0.850,0.867,0.830,0.881,0.860,0.828,0.876,0.861,(4.9495)+(-0.0883)Asn+(-0.0078)Gly+(0.0124)Gln+(-0.1375)Met+(0.0427)Phe+(-0.1120)Trp;0.850,0.866,0.797,0.881,0.841,0.860,0.881,0.866,(6.8237)+(-0.1039)Asn+(-0.0073)Gly+(0.0110)Gln+(-0.0077)Ala+(0.0102)Tyr+(-0.0983)Trp;0.850,0.864,0.855,0.882,0.847,0.858,0.855,0.861,(5.6934)+(-0.1257)Asn+(0.0110)Gln+(-0.0323)His+(-0.0091)Val+(0.0426)Phe+(-0.0931)Trp;0.850,0.867,0.824,0.880,0.862,0.875,0.841,0.864,(6.4621)+(-0.1301)Asn+(0.0111)Gln+(-0.0462)Cit+(0.0181)Tyr+(-0.0079)Val+(-0.1007)Trp;0.850,0.867,0.861,0.884,0.840,0.881,0.871,0.869,(4.0370)+(0.0111)Gln+(-0.0441)His+(-0.0071)Ala+(-0.1656)Met+(0.0590)Phe+(-0.0844)Trp;0.850,0.864,0.825,0.888,0.830,0.882,0.855,0.864,(6.7756)+(-0.1299)Asn+(0.0106)Gln+(-0.0118)Pro+(-0.0170)Val+(0.0396)Ile+(-0.0859)Trp;0.850,0.862,0.824,0.883,0.829,0.868,0.871,0.863,(5.5825)+(-0.1143)Asn+(0.0098)Gln+(-0.0086)Ala+(0.0320)Phe+(-0.1018)Trp;0.850,0.864,0.822,0.889,0.851,0.846,0.840,0.856,(5.4733)+(-0.1287)Asn+(0.0109)Gln+(-0.0108)Pro+(-0.0127)Leu+(0.0474)Phe+(-0.1157)Trp

[0341] ［実施例４で探索されたロジスティック回帰式の一覧（その２）］

以下に、前述した実施例４で探索されたロジスティック回帰式を列挙する。なお、式の前には、その式について得られた、「バリデーション有りでの

膵臓癌群と他癌群のＲＯＣ＿ＡＵＣの値」、「バリデーション無しでの膵臓癌群と他癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と健常群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣの値」、および「膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣの値の平均値」を、さらに列挙する。

[0342] 0.832,0.854,0.860,0.867,0.842,0.862,0.842,0.853,(0.8883)+(0.0101)Gln+(-0.0453)His+(-0.1983)Met+(0.0032)Ile+(0.0304)Phe+(-0.0647)Trp;0.811,0.827,0.859,0.830,0.819,0.841,0.822,0.828,(1.4317)+(0.0059)Gln+(-0.0615)His+(0.0176)Phe+(-0.0796)Trp;0.838,0.862,0.859,0.873,0.856,0.875,0.834,0.859,(0.7688)+(0.0114)Gln+(-0.0347)His+(-0.0488)Cit+(-0.1734)Met+(0.0327)Phe+(-0.0727)Trp;0.832,0.855,0.859,0.868,0.842,0.863,0.839,0.853,(0.9479)+(0.0102)Gln+(-0.0459)His+(-0.1951)Met+(0.0005)Leu+(0.0306)Phe+(-0.0647)Trp;0.835,0.855,0.858,0.869,0.842,0.863,0.838,0.853,(0.9606)+(0.0101)Gln+(-0.0456)His+(-0.1946)Met+(0.0308)Phe+(-0.0646)Trp;0.830,0.854,0.858,0.868,0.842,0.862,0.837,0.852,(0.9492)+(0.0100)Gln+(-0.0463)His+(-0.1974)Met+(0.0010)Lys+(0.0310)Phe+(-0.0651)Trp;0.832,0.856,0.858,0.867,0.846,0.864,0.843,0.855,(0.8859)+(0.0101)Gln+(-0.0449)His+(0.0079)Tyr+(-0.2036)Met+(0.0287)Phe+(-0.0666)Trp;0.844,0.867,0.858,0.875,0.859,0.877,0.856,0.867,(1.9144)+(-0.0985)Asn+(0.0116)Gln+(-0.0373)His+(-0.0484)Cit+(0.0186)Phe+(-0.0747)Trp;0.810,0.833,0.858,0.844,0.822,0.847,0.820,0.833,(1.4444)+(0.0069)Gln+(-0.0551)His+(-0.0066)Lys+(-0.0012)Leu+(0.0192)Phe+(-0.0744)Trp;0.813,0.834,0.858,0.842,0.823,0.848,0.822,0.834,(1.4226)+(0.0070)Gln+(-0.0556)His+(-0.0070)Lys+(0.0185)Phe+(-0.0747)Trp;0.801,0.824,0.857,0.836,0.809,0.834,0.814,0.823,(1.5132)+(0.0064)Gln+(-0.0614)His+(-0.0170)Tyr+(0.0240)Phe

+(-0.0738)Trp;0.838,0.858,0.857,0.878,0.831,0.868,0.853,0.857,(0.8895)+(0.0079)Gln+(-0.0176)Val+(-0.2523)Met+(0.0391)Ile+(0.0373)Phe+(-0.0600)Trp;0.842,0.865,0.857,0.877,0.854,0.863,0.853,0.862,(1.4326)+(-0.0806)Asn+(0.0122)Gln+(-0.0417)His+(-0.1327)Met+(0.0285)Phe+(-0.0597)Trp;0.810,0.828,0.857,0.837,0.820,0.838,0.814,0.827,(1.5141)+(0.0058)Gln+(-0.0585)His+(-0.0046)Leu+(0.0205)Phe+(-0.0777)Trp;0.813,0.835,0.856,0.838,0.835,0.855,0.815,0.836,(1.2693)+(0.0080)Gln+(-0.0481)His+(-0.0557)Cit+(0.0201)Phe+(-0.0874)Trp;0.820,0.844,0.856,0.852,0.841,0.864,0.818,0.844,(1.2255)+(0.0092)Gln+(-0.0419)His+(-0.0565)Cit+(-0.0074)Lys+(0.0216)Phe+(-0.0828)Trp;0.803,0.830,0.856,0.844,0.813,0.844,0.815,0.829,(1.4926)+(0.0073)Gln+(-0.0562)His+(-0.0143)Tyr+(-0.0061)Lys+(0.0236)Phe+(-0.0704)Trp;0.800,0.824,0.855,0.838,0.810,0.834,0.808,0.823,(1.5624)+(0.0064)Gln+(-0.0594)His+(-0.0159)Tyr+(-0.0031)Leu+(0.0255)Phe+(-0.0730)Trp;0.832,0.854,0.855,0.865,0.840,0.859,0.851,0.854,(2.1707)+(-0.1074)Asn+(0.0104)Gln+(-0.0506)His+(-0.0033)Tyr+(0.0180)Phe+(-0.0652)Trp;0.838,0.855,0.855,0.865,0.843,0.858,0.852,0.854,(2.1490)+(-0.1092)Asn+(0.0104)Gln+(-0.0504)His+(0.0170)Phe+(-0.0662)Trp;0.821,0.844,0.854,0.850,0.833,0.860,0.835,0.845,(3.9190)+(-0.0317)Cit+(-0.0149)Val+(-0.1434)Met+(0.0414)Ile+(0.0240)Phe+(-0.0598)Trp;0.835,0.855,0.853,0.866,0.842,0.859,0.853,0.855,(2.1356)+(-0.1071)Asn+(0.0106)Gln+(-0.0493)His+(-0.0017)Lys+(0.0173)Phe+(-0.0654)Trp;0.813,0.837,0.853,0.844,0.835,0.858,0.806,0.836,(1.3628)+(0.0079)Gln+(-0.0444)His+(-0.0557)Cit+(-0.0054)Leu+(0.0237)Phe+(-0.0854)Trp;0.832,0.856,0.853,0.874,0.847,0.864,0.822,0.852,(1.0094)+(0.0114)Gln+(-0.0439)His+(-0.0175)Arg+(-0.1644)Met+(0.0294)Phe+(-0.0634)Trp;0.801,0.824,0.853,0.841,0.806,0.837,0.810,0.823,(1.6890)+(0.0062)Gln+(-0.0559)His+(-0.0132)Tyr+(-0.0043)Val+(0.0252)Phe+(-0.0711)Trp;0.837,0.856,0.853,0.868,0.843,0.859,0.850,0.855,(2.2231)+(-0.1084)Asn+(0.0103)Gln+(-0.0483)His+(

-0.0033)Leu+(0.0190)Phe+(-0.0649)Trp;0.836,0.855,0.852,0.867,0.843,0.857,0.848,0.854,(2.2347)+(-0.1077)Asn+(0.0105)Gln+(-0.0506)His+(-0.0045)Ile+(0.0180)Phe+(-0.0656)Trp;0.840,0.863,0.852,0.883,0.836,0.878,0.856,0.863,(0.8547)+(0.0106)Gln+(-0.0386)His+(-0.0043)Ala+(-0.1722)Met+(0.0308)Phe+(-0.0594)Trp;0.820,0.841,0.852,0.853,0.823,0.854,0.838,0.842,(3.4029)+(0.0020)Ser+(-0.0158)Val+(-0.1764)Met+(0.0402)Ile+(0.0268)Phe+(-0.0567)Trp;0.807,0.833,0.852,0.845,0.826,0.850,0.807,0.832,(1.3754)+(0.0084)Gln+(-0.0483)His+(-0.0548)Cit+(-0.0155)Tyr+(0.0254)Phe+(-0.0821)Trp;0.804,0.825,0.852,0.835,0.807,0.843,0.821,0.827,(1.7109)+(0.0059)Gln+(-0.0552)His+(-0.0101)Val+(0.0099)Leu+(0.0178)Phe+(-0.0744)Trp;0.813,0.837,0.851,0.846,0.831,0.858,0.808,0.836,(1.4770)+(0.0078)Gln+(-0.0429)His+(-0.0539)Cit+(-0.0043)Val+(0.0228)Phe+(-0.0837)Trp;0.835,0.857,0.851,0.877,0.840,0.866,0.835,0.854,(1.2210)+(0.0100)Gln+(-0.0383)His+(-0.0054)Val+(-0.1938)Met+(0.0342)Phe+(-0.0607)Trp;0.809,0.836,0.851,0.855,0.826,0.848,0.797,0.832,(1.4109)+(0.0092)Gln+(-0.0555)His+(-0.0276)Arg+(-0.0080)Tyr+(0.0226)Phe+(-0.0720)Trp;0.819,0.840,0.851,0.854,0.821,0.847,0.839,0.840,(3.2389)+(-0.0194)Val+(-0.2122)Met+(0.0097)Lys+(0.0427)Ile+(0.0309)Phe+(-0.0610)Trp;0.810,0.828,0.851,0.840,0.813,0.840,0.817,0.827,(1.6683)+(0.0058)Gln+(-0.0547)His+(-0.0054)Val+(0.0212)Phe+(-0.0746)Trp;0.810,0.833,0.851,0.846,0.820,0.849,0.817,0.833,(1.6012)+(0.0066)Gln+(-0.0516)His+(-0.0041)Val+(-0.0055)Lys+(0.0210)Phe+(-0.0720)Trp;0.816,0.837,0.851,0.853,0.830,0.849,0.799,0.833,(1.3773)+(0.0091)Gln+(-0.0556)His+(-0.0286)Arg+(0.0199)Phe+(-0.0745)Trp;0.839,0.857,0.850,0.872,0.838,0.863,0.852,0.856,(2.4322)+(-0.1072)Asn+(0.0102)Gln+(-0.0444)His+(-0.0050)Val+(0.0189)Phe+(-0.0612)Trp;0.816,0.842,0.850,0.852,0.840,0.858,0.806,0.839,(1.2382)+(0.0096)Gln+(-0.0473)His+(-0.0416)Cit+(-0.0197)Arg+(0.0214)Phe+(-0.0817)Trp;0.835,0.859,0.850,0.869,0.847,0.886,0.836,0.860,(2.1595)+(0.00

80)Gln+(-0.0500)Cit+(-0.0125)Val+(-0.1881)Met+(0.0368)Ile+(-0.0598)Trp;0.811,0.838,0.850,0.855,0.830,0.851,0.801,0.835,(1.3783)+(0.0092)Gln+(-0.0549)His+(-0.0280)Arg+(-0.0010)Lys+(0.0199)Phe+(-0.0739)Trp;0.818,0.838,0.850,0.843,0.840,0.849,0.813,0.836,(3.6030)+(-0.0400)Cit+(-0.1257)Met+(0.0411)Ile+(-0.0228)Leu+(0.0269)Phe+(-0.0700)Trp;0.824,0.846,0.850,0.851,0.832,0.862,0.851,0.849,(3.4958)+(0.0197)Tyr+(-0.0169)Val+(-0.1900)Met+(0.0398)Ile+(0.0212)Phe+(-0.0598)Trp;0.828,0.855,0.849,0.863,0.850,0.877,0.826,0.854,(1.9611)+(0.0097)Gln+(-0.0329)His+(-0.0475)Cit+(-0.1561)Met+(0.0101)Ile+(-0.0631)Trp;0.827,0.849,0.849,0.861,0.823,0.868,0.855,0.852,(3.6056)+(-0.0029)Ala+(-0.0139)Val+(-0.1476)Met+(0.0386)Ile+(0.0243)Phe+(-0.0529)Trp;0.832,0.858,0.849,0.873,0.838,0.883,0.844,0.860,(1.0945)+(0.0090)Gln+(-0.0329)His+(-0.0066)Ala+(-0.0546)Cit+(0.0224)Phe+(-0.0770)Trp;0.810,0.832,0.849,0.845,0.822,0.843,0.811,0.830,(1.6167)+(0.0072)Gln+(-0.0573)His+(-0.0057)Lys+(-0.0092)Ile+(0.0202)Phe+(-0.0740)Trp;0.801,0.824,0.848,0.841,0.810,0.832,0.801,0.821,(1.7185)+(0.0069)Gln+(-0.0622)His+(-0.0146)Tyr+(-0.0106)Ile+(0.0253)Phe+(-0.0729)Trp;0.812,0.836,0.848,0.844,0.836,0.852,0.805,0.834,(1.4235)+(0.0083)Gln+(-0.0485)His+(-0.0547)Cit+(-0.0084)Ile+(0.0221)Phe+(-0.0860)Trp;0.811,0.824,0.848,0.831,0.815,0.846,0.809,0.825,(2.1163)+(0.0056)Gln+(-0.0577)His+(-0.0737)Trp;0.809,0.824,0.848,0.832,0.815,0.846,0.809,0.825,(2.1319)+(0.0056)Gln+(-0.0574)His+(-0.0004)Leu+(-0.0735)Trp;0.833,0.858,0.848,0.879,0.840,0.853,0.847,0.855,(0.9592)+(0.0121)Gln+(-0.0472)His+(-0.1920)Met+(-0.0243)Orn+(0.0373)Phe+(-0.0657)Trp;0.815,0.838,0.848,0.858,0.828,0.851,0.797,0.833,(1.4616)+(0.0090)Gln+(-0.0524)His+(-0.0286)Arg+(-0.0046)Leu+(0.0226)Phe+(-0.0727)Trp;0.806,0.833,0.848,0.840,0.827,0.847,0.819,0.833,(1.3150)+(0.0086)Gln+(-0.0506)His+(-0.0475)Cit+(-0.0116)Orn+(0.0226)Phe+(-0.0866)Trp;0.808,0.827,0.848,0.839,0.819,0.834,0.807,0.825,(1.6962)+(0.006

5)Gln+(-0.0624)His+(-0.0126)Ile+(0.0203)Phe+(-0.0774)Trp;0.821,0.840,0.848,0.852,0.823,0.849,0.836,0.840,(3.5940)+(-0.0158)Val+(-0.1719)Met+(0.0401)Ile+(0.0260)Phe+(-0.0568)Trp;0.817,0.839,0.847,0.852,0.822,0.848,0.836,0.840,(3.5883)+(0.0003)His+(-0.0159)Val+(-0.1724)Met+(0.0403)Ile+(0.0261)Phe+(-0.0568)Trp;0.830,0.852,0.847,0.868,0.839,0.855,0.838,0.850,(1.2919)+(-0.0059)Ser+(0.0107)Gln+(-0.0456)His+(-0.1879)Met+(0.0293)Phe+(-0.0657)Trp;0.807,0.828,0.847,0.842,0.814,0.838,0.810,0.826,(1.7332)+(0.0061)Gln+(-0.0570)His+(-0.0039)Val+(-0.0062)Ile+(0.0215)Phe+(-0.0749)Trp;0.835,0.857,0.847,0.872,0.841,0.854,0.856,0.855,(2.1735)+(-0.1012)Asn+(0.0115)Gln+(-0.0525)His+(-0.0183)Orn+(0.0209)Phe+(-0.0669)Trp;0.824,0.844,0.847,0.855,0.825,0.855,0.845,0.845,(4.1964)+(-0.0366)Asn+(-0.0156)Val+(-0.1313)Met+(0.0398)Ile+(0.0227)Phe+(-0.0531)Trp;0.822,0.841,0.847,0.848,0.839,0.849,0.824,0.840,(4.4190)+(-0.0614)Asn+(-0.0403)Cit+(0.0345)Ile+(-0.0238)Leu+(0.0191)Phe+(-0.0731)Trp;0.822,0.849,0.847,0.856,0.842,0.865,0.834,0.849,(1.7543)+(0.0088)Gln+(-0.0415)His+(0.0185)Tyr+(-0.2011)Met+(0.0057)Ile+(-0.0612)Trp;0.804,0.822,0.847,0.833,0.811,0.844,0.804,0.823,(2.2437)+(0.0057)Gln+(-0.0571)His+(-0.0067)Tyr+(-0.0705)Trp;0.838,0.861,0.847,0.870,0.853,0.877,0.844,0.861,(2.6610)+(-0.1010)Asn+(0.0111)Gln+(-0.0339)His+(-0.0475)Cit+(0.0018)Ile+(-0.0678)Trp;0.801,0.822,0.847,0.832,0.810,0.844,0.805,0.823,(2.2188)+(0.0057)Gln+(-0.0578)His+(-0.0072)Tyr+(0.0008)Leu+(-0.0708)Trp;0.827,0.848,0.846,0.862,0.815,0.876,0.858,0.853,(1.2964)+(0.0071)Gln+(-0.0476)His+(-0.0067)Ala+(0.0194)Phe+(-0.0686)Trp;0.818,0.839,0.846,0.852,0.822,0.848,0.836,0.840,(3.5995)+(-0.0002)Thr+(-0.0158)Val+(-0.1712)Met+(0.0401)Ile+(0.0259)Phe+(-0.0567)Trp;0.824,0.848,0.846,0.863,0.827,0.874,0.835,0.850,(2.2081)+(0.0080)Gln+(-0.0295)His+(-0.0082)Val+(-0.1935)Met+(0.0236)Ile+(-0.0479)Trp;0.843,0.865,0.846,0.882,0.836,0.879,0.873,0.867,(1.9077)+(-0.1020)Asn+(0.0111)G

ln+(-0.0396)His+(-0.0051)Ala+(0.0197)Phe+(-0.0605)Trp;0.826,0.852,0.846,0.869,0.816,0.878,0.858,0.856,(1.2862)+(0.0078)Gln+(-0.0444)His+(-0.0064)Ala+(-0.0050)Lys+(0.0198)Phe+(-0.0650)Trp;0.822,0.849,0.846,0.855,0.842,0.864,0.834,0.849,(1.7216)+(0.0091)Gln+(-0.0451)His+(0.0175)Tyr+(-0.1988)Met+(0.0045)Leu+(-0.0625)Trp;0.818,0.840,0.846,0.852,0.820,0.851,0.840,0.841,(3.7058)+(-0.0188)Val+(-0.1737)Met+(0.0369)Ile+(0.0073)Leu+(0.0243)Phe+(-0.0565)Trp;0.849,0.870,0.846,0.884,0.866,0.869,0.842,0.865,(1.2353)+(-0.0844)Asn+(0.0123)Gln+(-0.0572)Cit+(-0.1339)Met+(0.0312)Phe+(-0.0816)Trp;0.827,0.853,0.846,0.861,0.851,0.872,0.823,0.852,(1.9652)+(0.0102)Gln+(-0.0374)His+(-0.0467)Cit+(-0.1531)Met+(0.0058)Leu+(-0.0647)Trp;0.806,0.828,0.846,0.837,0.818,0.850,0.811,0.829,(2.0237)+(0.0067)Gln+(-0.0541)His+(-0.0073)Lys+(0.0032)Leu+(-0.0699)Trp;0.822,0.845,0.846,0.858,0.831,0.862,0.825,0.844,(2.0596)+(0.0087)Gln+(-0.0426)His+(-0.1785)Met+(0.0077)Ile+(-0.0551)Trp;0.838,0.861,0.845,0.870,0.852,0.877,0.844,0.861,(2.6642)+(-0.1008)Asn+(0.0112)Gln+(-0.0346)His+(-0.0474)Cit+(0.0010)Leu+(-0.0680)Trp;0.804,0.826,0.845,0.837,0.819,0.833,0.807,0

.824,(1.7177)+(0.0067)Gln+(-0.0653)His+(-0.0171)Ile+(0.0040)Leu+(0.0188)Phe+(-0.0782)Trp;0.817,0.845,0.845,0.858,0.831,0.862,0.825,0.844,(2.0573)+(0.0087)Gln+(-0.0424)His+(-0.1778)Met+(-0.0003)Lys+(0.0078)Ile+(-0.0550)Trp;0.825,0.848,0.845,0.864,0.814,0.876,0.853,0.852,(1.3320)+(0.0071)Gln+(-0.0466)His+(-0.0066)Ala+(-0.0020)Leu+(0.0207)Phe+(-0.0677)Trp;0.815,0.838,0.845,0.858,0.831,0.848,0.795,0.833,(1.5171)+(0.0093)Gln+(-0.0560)His+(-0.0277)Arg+(-0.0073)Ile+(0.0213)Phe+(-0.0735)Trp;0.838,0.862,0.845,0.870,0.855,0.877,0.845,0.862,(2.6256)+(-0.1026)Asn+(0.0111)Gln+(-0.0338)His+(-0.0476)Cit+(0.0045)Tyr+(-0.0693)Trp;0.829,0.853,0.845,0.869,0.836,0.856,0.842,0.850,(0.9474)+(0.0108)Gln+(-0.0459)His+(-0.0074)Thr+(-0.1743)Met+(0.0289)Phe+(-0.0619)Trp;0.817

,0.841,0.845,0.854,0.821,0.847,0.845,0.842,(3.7672)+(-0.0158)Val+(-0.1671)Met+(-0.0097)Orn+(0.0439)Ile+(0.0270)Phe+(-0.0574)Trp;0.821,0.844,0.845,0.856,0.833,0.858,0.825,0.843,(1.9866)+(0.0092)Gln+(-0.0476)His+(-0.1771)Met+(0.0064)Leu+(-0.0576)Trp;0.819,0.845,0.845,0.864,0.810,0.874,0.848,0.849,(1.3242)+(0.0074)Gln+(-0.0483)His+(-0.0064)Ala+(-0.0097)Tyr+(0.0233)Phe+(-0.0659)Trp;0.824,0.847,0.845,0.854,0.829,0.879,0.843,0.851,(4.5234)+(-0.0035)Ala+(-0.0342)Cit+(-0.0106)Val+(-0.1031)Met+(0.0385)Ile+(-0.0523)Trp;0.823,0.845,0.845,0.866,0.831,0.842,0.822,0.840,(0.8426)+(0.0071)Gln+(-0.2328)Met+(0.0264)Ile+(-0.0171)Leu+(0.0352)Phe+(-0.0745)Trp;0.845,0.868,0.845,0.882,0.852,0.886,0.852,0.868,(2.8826)+(-0.1094)Asn+(0.0093)Gln+(-0.0522)Cit+(-0.0094)Val+(0.0189)Ile+(-0.0729)Trp;0.818,0.844,0.844,0.857,0.833,0.857,0.825,0.843,(1.9930)+(0.0092)Gln+(-0.0479)His+(-0.1765)Met+(-0.0009)Ile+(0.0068)Leu+(-0.0577)Trp;0.841,0.861,0.844,0.870,0.852,0.877,0.843,0.860,(2.7090)+(-0.1006)Asn+(0.0112)Gln+(-0.0339)His+(-0.0474)Cit+(-0.0674)Trp;0.806,0.830,0.844,0.835,0.831,0.838,0.810,0.829,(3.5322)+(0.0038)Ser+(-0.0221)His+(-0.1374)Met+(0.0091)Ile+(0.0199)Phe+(-0.0684)Trp;0.816,0.840,0.844,0.863,0.825,0.855,0.798,0.835,(1.5894)+(0.0090)Gln+(-0.0487)His+(-0.0284)Arg+(-0.0051)Val+(0.0232)Phe+(-0.0702)Trp;0.824,0.847,0.844,0.867,0.811,0.875,0.850,0.851,(1.4335)+(0.0070)Gln+(-0.0441)His+(-0.0064)Ala+(-0.0035)Val+(0.0220)Phe+(-0.0655)Trp;0.835,0.854,0.844,0.866,0.842,0.852,0.852,0.853,(2.3932)+(-0.0049)Ser+(-0.1052)Asn+(0.0109)Gln+(-0.0504)His+(0.0160)Phe+(-0.0671)Trp;0.828,0.847,0.844,0.855,0.831,0.875,0.840,0.850,(3.4379)+(-0.0060)Ala+(-0.0470)Cit+(0.0336)Ile+(-0.0206)Leu+(0.0211)Phe+(-0.0711)Trp;0.829,0.853,0.844,0.867,0.854,0.850,0.815,0.847,(0.6734)+(0.0097)Gln+(-0.0603)Cit+(-0.2015)Met+(0.0053)Ile+(0.0327)Phe+(-0.0882)Trp;0.839,0.862,0.844,0.872,0.852,0.878,0.843,0.861,(2.7071)+(-0.0988)Asn+(0.0113)Gln+(-0.0330)His+(-0.047

5)Cit+(-0.0013)Lys+(-0.0665)Trp

[0343] ［実施例４で探索された線形判別式の一覧（その２）］

以下に、前述した実施例４で探索された線形判別式を列挙する。なお、式の前には、その式について得られた、「バリデーション有りでの膵臓癌群と他癌群のＲＯＣ＿ＡＵＣの値」、「バリデーション無しでの膵臓癌群と他癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と健常群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣの値」、および「膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣの値の平均値」を、さらに列挙する。

[0344] 0.833,0.849,0.880,0.860,0.830,0.861,0.852,0.851,(5.7313)+(0.0114)Ser+(-0.0226)Val+(-0.2232)Met+(0.0489)Ile+(0.0676)Phe+(-0.0795)Trp;0.843,0.860,0.879,0.871,0.852,0.863,0.849,0.859,(3.2393)+(0.0037)Ser+(0.0106)Gln+(-0.0517)His+(-0.2085)Met+(0.0643)Phe+(-0.0934)Trp;0.847,0.866,0.875,0.874,0.863,0.873,0.848,0.865,(3.3463)+(0.0126)Gln+(-0.0436)His+(-0.0447)Cit+(-0.1986)Met+(0.0623)Phe+(-0.0962)Trp;0.831,0.849,0.875,0.860,0.832,0.859,0.847,0.849,(6.5393)+(0.0075)Thr+(-0.0236)Val+(-0.2243)Met+(0.0503)Ile+(0.0644)Phe+(-0.0798)Trp;0.831,0.848,0.875,0.846,0.855,0.862,0.829,0.848,(5.6907)+(0.0141)Ser+(-0.0317)His+(0.0235)Tyr+(-0.1891)Met+(0.0540)Phe+(-0.1005)Trp;0.845,0.862,0.874,0.868,0.858,0.859,0.858,0.861,(3.3530)+(0.0109)Gln+(-0.0510)His+(0.0190)Tyr+(-0.2214)Met+(0.0579)Phe+(-0.1003)Trp;0.853,0.869,0.874,0.880,0.860,0.865,0.863,0.867,(4.2094)+(-0.0824)Asn+(0.0129)Gln+(-0.0437)His+(-0.1432)Met+(0.0582)Phe+(-0.0944)Trp;0.847,0.860,0.874,0.871,0.851,0.858,0.851,0.858,(3.4357)+(0.0110)Gln+(-0.0515)His+(-0.2021)Met+(0.0618)Phe+(-0.0934)Trp;0.843,0.862,0.873,0.875,0.854,0.860,0.846,0.859,(3.3761)+(

0.0122)Gln+(-0.0510)His+(-0.0129)Arg+(-0.1828)Met+(0.0603)Phe+(-0.091
2)Trp;0.827,0.842,0.873,0.852,0.837,0.846,0.824,0.840,(5.1029)+(0.010
3)Ser+(-0.1930)Met+(0.0483)Ile+(-0.0349)Leu+(0.0703)Phe+(-0.0947)Trp;
0.842,0.860,0.873,0.871,0.851,0.858,0.851,0.858,(3.4428)+(0.0110)Gln+
(-0.0515)His+(-0.2017)Met+(-0.0004)Ile+(0.0619)Phe+(-0.0934)Trp;0.831
,0.847,0.873,0.854,0.847,0.858,0.822,0.845,(6.5948)+(0.0166)Ser+(-0.0
568)Asn+(-0.0244)His+(-0.1212)Met+(0.0564)Phe+(-0.0924)Trp;0.823,0.84
1,0.873,0.845,0.845,0.852,0.813,0.839,(5.9004)+(0.0127)Ser+(-0.0325)H
is+(0.0022)Thr+(-0.1690)Met+(0.0591)Phe+(-0.0924)Trp;0.821,0.840,0.87
2,0.842,0.842,0.851,0.818,0.838,(5.7918)+(0.0136)Ser+(-0.0319)His+(-0
.1675)Met+(0.0041)Ile+(0.0574)Phe+(-0.0919)Trp;0.843,0.861,0.872,0.87
3,0.851,0.860,0.851,0.859,(3.5849)+(0.0113)Gln+(-0.0496)His+(-0.1909)
Met+(-0.0042)Lys+(0.0619)Phe+(-0.0920)Trp;0.849,0.863,0.872,0.883,0.8
34,0.865,0.868,0.862,(3.5810)+(0.0087)Gln+(-0.0238)Val+(-0.2622)Met+(
0.0473)Ile+(0.0706)Phe+(-0.0865)Trp;0.841,0.860,0.871,0.871,0.850,0.8
57,0.852,0.857,(3.4364)+(0.0111)Gln+(-0.0511)His+(-0.0013)Thr+(-0.198
0)Met+(0.0611)Phe+(-0.0931)Trp;0.825,0.840,0.870,0.844,0.843,0.850,0.
813,0.838,(5.8961)+(0.0135)Ser+(-0.0317)His+(-0.1628)Met+(0.0582)Phe+
(-0.0919)Trp;0.824,0.843,0.870,0.846,0.850,0.857,0.809,0.841,(6.1358)
+(0.0136)Ser+(-0.0254)His+(-0.0246)Cit+(-0.1553)Met+(0.0573)Phe+(-0.0
933)Trp;0.843,0.860,0.870,0.875,0.850,0.858,0.846,0.857,(3.5663)+(0.0
108)Gln+(-0.0477)His+(-0.1968)Met+(-0.0060)Leu+(0.0661)Phe+(-0.0927)T
rp;0.822,0.840,0.870,0.845,0.844,0.850,0.812,0.838,(5.9269)+(0.0139)S
er+(-0.0312)His+(-0.0025)Arg+(-0.1585)Met+(0.0579)Phe+(-0.0915)Trp;0.
822,0.840,0.869,0.845,0.843,0.852,0.814,0.838,(5.9641)+(0.0138)Ser+(-
0.0308)His+(-0.1585)Met+(-0.0016)Lys+(0.0583)Phe+(-0.0914)Trp;0.847,0
.865,0.868,0.880,0.851,0.854,0.863,0.862,(3.3457)+(0.0126)Gln+(-0.051
3)His+(-0.2042)Met+(-0.0199)Orn+(0.0685)Phe+(-0.0938)Trp;0.847,0.864,

0.868,0.881,0.847,0.865,0.850,0.861,(3.8166)+(0.0108)Gln+(-0.0403)His+(-0.0082)Val+(-0.2049)Met+(0.0696)Phe+(-0.0882)Trp;0.836,0.851,0.867,0.857,0.857,0.857,0.818,0.847,(6.6277)+(0.0157)Ser+(-0.0622)Asn+(-0.0280)Cit+(-0.1182)Met+(0.0533)Phe+(-0.1019)Trp;0.823,0.842,0.867,0.847,0.844,0.851,0.817,0.840,(5.9967)+(0.0140)Ser+(-0.0306)His+(-0.1613)Met+(-0.0068)Orn+(0.0602)Phe+(-0.0920)Trp;0.838,0.855,0.867,0.858,0.842,0.863,0.870,0.858,(6.6808)+(0.0304)Tyr+(-0.0240)Val+(-0.2256)Met+(0.0495)Ile+(0.0541)Phe+(-0.0870)Trp;0.855,0.871,0.867,0.879,0.863,0.872,0.864,0.870,(5.1147)+(-0.1213)Asn+(0.0130)Gln+(-0.0367)His+(-0.0468)Cit+(0.0353)Phe+(-0.1017)Trp;0.831,0.848,0.866,0.845,0.863,0.854,0.821,0.846,(5.5721)+(0.0124)Ser+(-0.0334)Cit+(0.0250)Tyr+(-0.1942)Met+(0.0498)Phe+(-0.1139)Trp;0.837,0.854,0.866,0.856,0.861,0.854,0.836,0.852,(6.1112)+(0.0162)Ser+(-0.0693)Asn+(0.0246)Tyr+(-0.1529)Met+(0.0489)Phe+(-0.1123)Trp;0.823,0.841,0.865,0.843,0.849,0.847,0.812,0.838,(5.5939)+(0.0121)Ser+(-0.0340)Cit+(-0.1749)Met+(0.0079)Ile+(0.0527)Phe+(-0.1049)Trp;0.823,0.841,0.865,0.850,0.843,0.850,0.806,0.837,(6.0598)+(0.0126)Ser+(-0.0268)His+(-0.1552)Met+(-0.0084)Leu+(0.0638)Phe+(-0.0910)Trp;0.832,0.849,0.864,0.857,0.835,0.860,0.849,0.850,(7.0685)+(-0.0221)Cit+(-0.0209)Val+(-0.1817)Met+(0.0477)Ile+(0.0568)Phe+(-0.0783)Trp;0.830,0.849,0.864,0.848,0.849,0.843,0.855,0.849,(6.4939)+(0.0249)Ser+(-0.0090)Gly+(-0.0267)His+(-0.1616)Met+(0.0530)Phe+(-0.0933)Trp;0.836,0.852,0.864,0.869,0.840,0.843,0.838,0.847,(3.2359)+(0.0076)Gln+(-0.2239)Met+(0.0412)Ile+(-0.0322)Leu+(0.0708)Phe+(-0.1031)Trp;0.842,0.859,0.863,0.869,0.848,0.852,0.856,0.857,(5.2008)+(0.0008)Ser+(-0.1224)Asn+(0.0111)Gln+(-0.0451)His+(0.0345)Phe+(-0.0989)Trp;0.826,0.844,0.862,0.858,0.840,0.854,0.809,0.840,(6.3284)+(0.0121)Ser+(-0.0201)His+(-0.0086)Val+(-0.1642)Met+(0.0656)Phe+(-0.0865)Trp;0.842,0.859,0.862,0.869,0.850,0.852,0.858,0.857,(5.2386)+(-0.1225)Asn+(0.0111)Gln+(-0.04

51)His+(0.0025)Tyr+(0.0332)Phe+(-0.0998)Trp;0.845,0.859,0.862,0.870,0.849,0.851,0.856,0.856,(5.2312)+(-0.1218)Asn+(0.0112)Gln+(-0.0451)His+(0.0342)Phe+(-0.0988)Trp;0.829,0.846,0.862,0.859,0.826,0.851,0.849,0.846,(6.7116)+(-0.0200)Val+(-0.1902)Met+(0.0516)Ile+(-0.0070)Leu+(0.0608)Phe+(-0.0785)Trp;0.824,0.841,0.862,0.847,0.850,0.844,0.804,0.836,(5.7739)+(0.0112)Ser+(0.0015)Thr+(-0.0327)Cit+(-0.1711)Met+(0.0548)Phe+(-0.1054)Trp;0.829,0.845,0.862,0.852,0.846,0.843,0.823,0.841,(6.2199)+(0.0156)Ser+(-0.0681)Asn+(-0.1302)Met+(0.0034)Ile+(0.0527)Phe+(-0.1034)Trp;0.831,0.845,0.862,0.853,0.848,0.844,0.819,0.841,(6.3132)+(0.0149)Ser+(-0.0690)Asn+(0.0018)Thr+(-0.1309)Met+(0.0540)Phe+(-0.1040)Trp;0.828,0.846,0.861,0.859,0.826,0.851,0.851,0.847,(6.8200)+(-0.0004)His+(-0.0224)Val+(-0.1919)Met+(0.0475)Ile+(0.0589)Phe+(-0.0777)Trp;0.829,0.846,0.861,0.859,0.826,0.852,0.852,0.847,(6.6545)+(-0.0232)Val+(-0.2023)Met+(0.0028)Lys+(0.0480)Ile+(0.0598)Phe+(-0.0786)Trp;0.850,0.867,0.861,0.884,0.840,0.881,0.871,0.869,(4.0370)+(0.0111)Gln+(-0.0441)His+(-0.0071)Ala+(-0.1656)Met+(0.0590)Phe+(-0.0844)Trp;0.847,0.864,0.861,0.880,0.851,0.865,0.850,0.862,(3.6131)+(0.0121)Gln+(-0.0505)His+(-0.0094)Pro+(-0.1825)Met+(0.0649)Phe+(-0.0977)Trp;0.833,0.846,0.861,0.859,0.826,0.852,0.850,0.847,(6.8122)+(-0.0225)Val+(-0.1923)Met+(0.0477)Ile+(0.0589)Phe+(-0.0778)Trp;0.835,0.851,0.861,0.864,0.832,0.857,0.854,0.852,(7.8537)+(-0.0508)Asn+(-0.0220)Val+(-0.1418)Met+(0.0466)Ile+(0.0553)Phe+(-0.0753)Trp;0.835,0.852,0.861,0.862,0.835,0.879,0.842,0.854,(6.5739)+(0.0127)Ser+(-0.0243)His+(-0.0067)Ala+(-0.1254)Met+(0.0548)Phe+(-0.0833)Trp;0.826,0.845,0.861,0.854,0.846,0.846,0.818,0.841,(6.3177)+(0.0157)Ser+(-0.0674)Asn+(-0.0012)Arg+(-0.1247)Met+(0.0533)Phe+(-0.1030)Trp;0.826,0.843,0.861,0.850,0.842,0.847,0.824,0.841,(6.5117)+(-0.0332)Cit+(-0.1536)Met+(0.0533)Ile+(-0.0359)Leu+(0.0612)Phe+(-0.0907)Trp;0.823,0.841,0.861,0.847,0.849,0.844,0.804,0.836,(5.7692)

+(0.0117)Ser+(-0.0329)Cit+(-0.1666)Met+(0.0008)Orn+(0.0540)Phe+(-0.1049)Trp;0.821,0.838,0.860,0.842,0.838,0.852,0.819,0.838,(4.4648)+(0.0082)Gln+(-0.0521)His+(-0.0472)Cit+(0.0240)Phe+(-0.1033)Trp;0.824,0.842,0.860,0.845,0.845,0.851,0.820,0.840,(7.6321)+(0.0112)Ser+(-0.0847)Asn+(-0.0205)His+(-0.0262)Cit+(0.0345)Phe+(-0.0975)Trp;0.832,0.845,0.860,0.854,0.847,0.843,0.820,0.841,(6.3080)+(0.0155)Ser+(-0.0680)Asn+(-0.1264)Met+(0.0534)Phe+(-0.1033)Trp;0.816,0.827,0.860,0.832,0.821,0.836,0.821,0.828,(4.5801)+(0.0064)Gln+(-0.0606)His+(0.0228)Phe+(-0.1005)Trp;0.809,0.826,0.860,0.835,0.817,0.836,0.817,0.826,(4.5675)+(0.0066)Gln+(-0.0604)His+(-0.0091)Tyr+(0.0265)Phe+(-0.0969)Trp;0.828,0.846,0.860,0.859,0.826,0.852,0.851,0.847,(6.8341)+(-0.0007)Arg+(-0.0225)Val+(-0.1907)Met+(0.0477)Ile+(0.0588)Phe+(-0.0776)Trp;0.816,0.838,0.860,0.845,0.834,0.852,0.818,0.837,(4.4559)+(0.0084)Gln+(-0.0520)His+(-0.0468)Cit+(-0.0071)Tyr+(0.0269)Phe+(-0.1005)Trp;0.825,0.841,0.860,0.850,0.843,0.854,0.808,0.839,(6.2539)+(0.0133)Ser+(-0.0296)His+(-0.0058)Pro+(-0.1457)Met+(0.0590)Phe+(-0.0945)Trp;0.846,0.862,0.860,0.873,0.852,0.858,0.859,0.860,(5.3365)+(-0.1137)Asn+(0.0118)Gln+(-0.0420)His+(-0.0073)Lys+(0.0373)Phe+(-0.0959)Trp;0.825,0.842,0.860,0.849,0.850,0.848,0.802,0.837,(5.9599)+(0.0126)Ser+(-0.0319)Cit+(-0.1558)Met+(-0.0037)Lys+(0.0548)Phe+(-0.1027)Trp;0.828,0.841,0.860,0.847,0.849,0.843,0.804,0.836,(5.7741)+(0.0118)Ser+(-0.0322)Cit+(-0.1667)Met+(0.0543)Phe+(-0.1048)Trp;0.831,0.847,0.860,0.859,0.827,0.852,0.854,0.848,(6.8895)+(-0.0222)Val+(-0.1915)Met+(-0.0055)Orn+(0.0496)Ile+(0.0595)Phe+(-0.0778)Trp;0.845,0.863,0.859,0.877,0.854,0.857,0.850,0.860,(4.9605)+(-0.1109)Asn+(0.0129)Gln+(-0.0448)His+(-0.0163)Arg+(0.0359)Phe+(-0.0953)Trp;0.830,0.850,0.859,0.859,0.844,0.867,0.827,0.849,(4.7362)+(0.0100)Gln+(-0.0440)His+(-0.0493)Cit+(-0.0136)Lys+(0.0313)Phe+(-0.0978)Trp;0.823,0.845,0.859,0.854,0.842,0.858,0.817,0.843,(4.2587)+(0.0100)Gln+(-0

.0524)His+(-0.0345)Cit+(-0.0181)Arg+(0.0267)Phe+(-0.0985)Trp;0.831,0.846,0.859,0.856,0.847,0.844,0.820,0.842,(6.3562)+(0.0158)Ser+(-0.0655)Asn+(-0.1269)Met+(-0.0048)Orn+(0.0549)Phe+(-0.1031)Trp;0.818,0.838,0.859,0.846,0.837,0.841,0.814,0.834,(7.4338)+(0.0120)Ser+(-0.0844)Asn+(-0.0261)His+(-0.0053)Arg+(0.0350)Phe+(-0.0949)Trp;0.823,0.841,0.859,0.846,0.849,0.842,0.806,0.836,(5.7600)+(0.0112)Ser+(-0.0349)Cit+(0.0033)Arg+(-0.1716)Met+(0.0546)Phe+(-0.1056)Trp;0.831,0.846,0.859,0.855,0.847,0.846,0.820,0.842,(6.3922)+(0.0159)Ser+(-0.0665)Asn+(-0.1215)Met+(-0.0021)Lys+(0.0537)Phe+(-0.1022)Trp;0.819,0.840,0.859,0.855,0.831,0.849,0.811,0.837,(4.2627)+(0.0095)Gln+(-0.0580)His+(-0.0238)Arg+(-0.0038)Tyr+(0.0284)Phe+(-0.0936)Trp;0.844,0.861,0.859,0.873,0.849,0.849,0.864,0.859,(5.1561)+(-0.1186)Asn+(0.0122)Gln+(-0.0454)His+(-0.0148)Orn+(0.0385)Phe+(-0.0992)Trp;0.822,0.842,0.859,0.843,0.855,0.846,0.809,0.838,(7.1177)+(-0.0245)His+(0.0071)Thr+(-0.0262)Cit+(-0.1480)Met+(0.0513)Phe+(-0.0948)Trp;0.823,0.840,0.859,0.853,0.833,0.848,0.812,0.837,(4.2643)+(0.0095)Gln+(-0.0580)His+(-0.0241)Arg+(0.0269)Phe+(-0.0950)Trp;0.819,0.839,0.859,0.846,0.836,0.844,0.820,0.836,(7.5330)+(0.0121)Ser+(-0.0841)Asn+(-0.0248)His+(-0.0042)Lys+(0.0364)Phe+(-0.0944)Trp;0.838,0.853,0.858,0.855,0.853,0.841,0.859,0.852,(6.9057)+(0.0270)Ser+(-0.0612)Asn+(-0.0091)Gly+(-0.1277)Met+(0.0488)Phe+(-0.1027)Trp;0.834,0.850,0.858,0.852,0.854,0.
839,0.847,0.848,(6.3156)+(0.0231)Ser+(-0.0087)Gly+(-0.0233)Cit+(-0.1668)Met+(0.0499)Phe+(-0.1044)Trp;0.823,0.836,0.858,0.843,0.834,0.837,0.821,0.834,(7.4516)+(0.0109)Ser+(-0.0888)Asn+(-0.0270)His+(0.0342)Phe+(-0.0962)Trp;0.835,0.851,0.858,0.852,0.854,0.834,0.855,0.849,(5.8771)+(0.0234)Ser+(-0.0091)Gly+(0.0152)Tyr+(-0.1942)Met+(0.0470)Phe+(-0.1114)Trp;0.818,0.837,0.858,0.841,0.844,0.837,0.815,0.834,(6.8189)+(-0.0308)His+(0.0060)Thr+(-0.1554)Met+(0.0031)Ile+(0.0508)Phe+(-0.0930)Tr

p;0.846,0.862,0.858,0.878,0.849,0.851,0.853,0.858,(5.4093)+(-0.1206)Asn+(0.0110)Gln+(-0.0380)His+(-0.0110)Leu+(0.0437)Phe+(-0.0973)Trp;0.837,0.851,0.858,0.868,0.844,0.854,0.818,0.846,(7.0621)+(0.0148)Ser+(-0.0652)Asn+(-0.0106)Val+(-0.1219)Met+(0.0642)Phe+(-0.0901)Trp;0.821,0.839,0.858,0.842,0.847,0.836,0.819,0.836,(5.0497)+(0.0117)Ser+(0.0233)Tyr+(-0.2099)Met+(0.0021)Ile+(0.0498)Phe+(-0.1154)Trp;0.823,0.842,0.858,0.845,0.851,0.840,0.814,0.837,(5.1803)+(0.0126)Ser+(-0.0051)Arg+(0.0239)Tyr+(-0.1988)Met+(0.0497)Phe+(-0.1142)Trp;0.844,0.860,0.858,0.874,0.850,0.849,0.850,0.856,(5.3633)+(-0.1193)Asn+(0.0115)Gln+(-0.0448)His+(-0.0111)Ile+(0.0387)Phe+(-0.0985)Trp;0.822,0.843,0.857,0.857,0.833,0.856,0.814,0.840,(4.4823)+(0.0098)Gln+(-0.0544)His+(-0.0190)Arg+(-0.0074)Lys+(0.0300)Phe+(-0.0931)Trp;0.806,0.828,0.857,0.839,0.798,0.870,0.835,0.835,(4.9288)+(0.0110)Ser+(-0.0175)His+(-0.0279)Val+(-0.2471)Met+(0.0594)Ile+(0.0520)Phe;0.825,0.843,0.857,0.840,0.854,0.844,0.825,0.841,(6.7583)+(-0.0303)His+(0.0055)Thr+(0.0214)Tyr+(-0.1732)Met+(0.0469)Phe+(-0.1008)Trp;0.820,0.839,0.857,0.850,0.832,0.855,0.816,0.838,(4.7194)+(0.0078)Gln+(-0.0458)His+(-0.0439)Cit+(-0.0051)Val+(0.0284)Phe+(-0.1000)Trp;0.841,0.857,0.857,0.869,0.823,0.882,0.875,0.862,(7.3604)+(-0.0067)Ala+(-0.0199)Val+(-0.1555)Met+(0.0506)Ile+(0.0532)Phe+(-0.0690)Trp;0.820,0.836,0.857,0.847,0.825,0.847,0.822,0.835,(4.8410)+(0.0080)Gln+(-0.0534)His+(-0.0128)Lys+(0.0296)Phe+(-0.0951)Trp;0.827,0.844,0.857,0.848,0.850,0.838,0.821,0.839,(7.6779)+(-0.0494)Asn+(-0.0244)His+(0.0079)Thr+(-0.1163)Met+(0.0491)Phe+(-0.0939)Trp;0.835,0.851,0.857,0.866,0.826,0.879,0.843,0.853,(5.3914)+(0.0086)Gln+(-0.0274)His+(-0.0137)Val+(-0.1738)Met+(0.0347)Ile+(-0.0669)Trp;0.857,0.874,0.857,0.886,0.869,0.867,0.853,0.869,(4.0729)+(-0.0942)Asn+(0.0132)Gln+(-0.0523)Cit+(-0.1417)Met+(0.0541)Phe+(-0.1117)Trp;0.818,0.837,0.857,0.844,0.834,0.837,0.821,0.834,(7.4828)+(0.0111)Ser+(-0.0874)Asn+(-0.

0267)His+(-0.0032)Orn+(0.0351)Phe+(-0.0962)Trp;0.817,0.838,0.857,0.843,0.846,0.835,0.809,0.833,(6.9264)+(-0.0304)His+(0.0064)Thr+(-0.0019)Arg+(-0.1497)Met+(0.0513)Phe+(-0.0928)Trp;0.831,0.846,0.857,0.861,0.825,0.856,0.843,0.846,(7.8869)+(0.0080)Ser+(-0.1053)Asn+(-0.0174)Val+(0.0268)Ile+(0.0379)Phe+(-0.0882)Trp;0.827,0.842,0.856,0.848,0.847,0.846,0.814,0.839,(7.4518)+(0.0099)Ser+(-0.0955)Asn+(-0.0369)Cit+(0.0065)Orn+(0.0297)Phe+(-0.1064)Trp

[0345] ［実施例５で探索されたロジスティック回帰式の一覧（その１）］

以下に、前述した実施例５で探索されたロジスティック回帰式を列挙する。なお、式の前には、その式について得られた、「バリデーション有りでの膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値」、「バリデーション無しでの膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と健常群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と他癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣの値」、および「膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣの値の平均値」を、さらに列挙する。

[0346] 0.879,0.901,0.799,0.867,0.834,0.859,0.850,0.861,(2.5017)+(-0.1544)Asn+(0.0144)Gln+(-0.0136)Pro+(-0.0179)Val+(0.0647)Phe+(-0.0751)Trp;0.879,0.900,0.825,0.868,0.840,0.855,0.849,0.861,(1.5408)+(-0.1050)Asn+(0.0143)Gln+(-0.0196)Val+(-0.1804)Met+(0.0788)Phe+(-0.0595)Trp;0.879,0.899,0.808,0.865,0.818,0.870,0.869,0.864,(2.4184)+(-0.1460)Asn+(0.0137)Gln+(-0.0063)Ala+(-0.0174)Val+(0.0542)Phe+(-0.0581)Trp;0.878,0.899,0.806,0.859,0.832,0.846,0.822,0.850,(2.3121)+(-0.1378)Asn+(0.0149)Gln+(-0.0291)Arg+(-0.0209)Val+(0.0646)Phe+(-0.0644)Trp;0.877,0.896,0.794,0.863,0.820,0.895,0.843,0.864,(3.0546)+(-0.1157)Asn+(0.0150)Gln+(-0.0065)Ala+(-0.0363)Cit+(-0.0103)Val+(-0.0537)Trp;0.877,0.899,0.770,0.854,

0.809,0.880,0.810,0.849,(3.2431)+(-0.0996)Asn+(0.0151)Gln+(-0.0064)Al
a+(-0.0237)Arg+(-0.0122)Val+(-0.0440)Trp;0.876,0.898,0.829,0.870,0.84
4,0.865,0.854,0.865,(2.0985)+(-0.1578)Asn+(0.0147)Gln+(-0.0434)Cit+(-
0.0184)Val+(0.0625)Phe+(-0.0746)Trp;0.876,0.893,0.817,0.860,0.829,0.8
49,0.847,0.854,(2.9307)+(-0.1647)Asn+(0.0124)Gln+(-0.0209)Val+(0.0566
)Phe+(-0.0686)Trp;0.875,0.892,0.780,0.854,0.803,0.884,0.840,0.855,(3.
6223)+(-0.1220)Asn+(0.0132)Gln+(-0.0067)Ala+(-0.0129)Val+(-0.0490)Trp
;0.874,0.894,0.805,0.860,0.830,0.841,0.846,0.853,(3.2658)+(-0.0073)Se
r+(-0.1562)Asn+(0.0131)Gln+(-0.0209)Val+(0.0537)Phe+(-0.0697)Trp;0.87
4,0.894,0.806,0.860,0.825,0.846,0.851,0.854,(2.7168)+(-0.1504)Asn+(0.
0132)Gln+(-0.0088)Thr+(-0.0197)Val+(0.0537)Phe+(-0.0663)Trp;0.874,0.8
98,0.766,0.857,0.808,0.880,0.836,0.855,(3.5580)+(-0.1181)Asn+(0.0142)
Gln+(-0.0057)Ala+(-0.0086)Pro+(-0.0110)Val+(-0.0528)Trp;0.873,0.891,0
.807,0.864,0.828,0.888,0.853,0.865,(2.2278)+(-0.1175)Asn+(0.0154)Gln+
(-0.0077)Ala+(-0.0464)Cit+(-0.0694)Trp;0.873,0.894,0.766,0.854,0.820,
0.865,0.816,0.849,(3.9874)+(-0.1306)Asn+(0.0133)Gln+(-0.0113)Pro+(-0.
0132)Val+(-0.0617)Trp;0.873,0.894,0.798,0.863,0.827,0.893,0.838,0.863
,(2.7457)+(-0.1095)Asn+(0.0149)Gln+(-0.0072)Ala+(-0.0424)Cit+(-0.0107
)Leu+(-0.0615)Trp;0.873,0.893,0.789,0.856,0.803,0.886,0.850,0.858,(3.
5353)+(-0.1236)Asn+(0.0131)Gln+(-0.0068)Ala+(-0.0146)Val+(0.0076)Ile+
(-0.0475)Trp;0.873,0.896,0.810,0.855,0.811,0.855,0.840,0.850,(0.6642)
+(0.0125)Gln+(-0.0052)Ala+(-0.0163)Val+(-0.2337)Met+(0.0706)Phe+(-0.0
564)Trp;0.873,0.895,0.767,0.856,0.801,0.880,0.851,0.857,(3.3049)+(-0.
1056)Asn+(0.0142)Gln+(-0.0107)Thr+(-0.0066)Ala+(-0.0119)Val+(-0.0475)
Trp;0.873,0.893,0.769,0.851,0.813,0.873,0.806,0.846,(2.9725)+(-0.0932
)Asn+(0.0146)Gln+(-0.0074)Ala+(-0.0245)Arg+(-0.0128)Leu+(-0.0524)Trp;
0.873,0.894,0.805,0.860,0.819,0.859,0.860,0.858,(2.1851)+(-0.1339)Asn
+(0.0128)Gln+(-0.0075)Ala+(-0.0221)Leu+(0.0535)Phe+(-0.0678)Trp;0.872

,0.896,0.789,0.865,0.829,0.890,0.844,0.865,(2.3256)+(-0.1109)Asn+(0.0163)Gln+(-0.0063)Ala+(-0.0432)Cit+(-0.0095)Pro+(-0.0722)Trp;0.872,0.893,0.756,0.852,0.799,0.866,0.840,0.850,(4.0269)+(-0.0137)Ser+(-0.1075)Asn+(0.0146)Gln+(-0.0071)Ala+(-0.0129)Val+(-0.0515)Trp;0.872,0.891,0.793,0.860,0.828,0.879,0.833,0.858,(2.1632)+(-0.1039)Asn+(0.0161)Gln+(-0.0077)Ala+(-0.0331)Cit+(-0.0180)Arg+(-0.0639)Trp;0.872,0.896,0.760,0.854,0.825,0.869,0.793,0.846,(3.6419)+(-0.1091)Asn+(0.0151)Gln+(-0.0226)Arg+(-0.0101)Pro+(-0.0129)Val+(-0.0571)Trp;0.872,0.891,0.819,0.860,0.825,0.852,0.856,0.856,(2.9395)+(-0.1699)Asn+(0.0128)Gln+(-0.0274)Val+(0.0126)Leu+(0.0531)Phe+(-0.0668)Trp;0.872,0.896,0.785,0.861,0.821,0.877,0.837,0.858,(3.7526)+(-0.1329)Asn+(0.0133)Gln+(-0.0127)Pro+(-0.0174)Val+(0.0198)Ile+(-0.0589)Trp;0.872,0.891,0.822,0.860,0.829,0.851,0.849,0.855,(2.8423)+(-0.1619)Asn+(0.0127)Gln+(-0.0065)His+(-0.0202)Val+(0.0568)Phe+(-0.0667)Trp;0.871,0.892,0.780,0.854,0.802,0.883,0.841,0.855,(3.6590)+(-0.1254)Asn+(0.0130)Gln+(-0.0067)Ala+(-0.0134)Val+(0.0017)Lys+(-0.0493)Trp;0.871,0.892,0.818,0.859,0.828,0.847,0.846,0.853,(2.9627)+(-0.1677)Asn+(0.0123)Gln+(-0.0214)Val+(0.0014)Lys+(0.0567)Phe+(-0.0687)Trp;0.871,0.893,0.832,0.870,0.859,0.859,0.836,0.862,(1.8582)+(-0.1462)Asn+(0.0139)Gln+(-0.0518)Cit+(-0.0240)Leu+(0.0618)Phe+(-0.0862)Trp;0.871,0.892,0.778,0.853,0.801,0.883,0.838,0.854,(3.6602)+(-0.1232)Asn+(0.0130)Gln+(0.0034)His+(-0.0068)Ala+(-0.0132)Val+(-0.0498)Trp;0.871,0.893,0.818,0.860,0.829,0.849,0.848,0.855,(2.9200)+(-0.1649)Asn+(0.0124)Gln+(-0.0211)Val+(0.0010)Ile+(0.0566)Phe+(-0.0684)Trp;0.871,0.897,0.783,0.863,0.836,0.878,0.821,0.858,(3.4654)+(-0.1234)Asn+(0.0150)Gln+(-0.0357)Cit+(-0.0107)Pro+(-0.0106)Val+(-0.0669)Trp;0.871,0.894,0.757,0.855,0.818,0.862,0.823,0.849,(3.6841)+(-0.1155)Asn+(0.0142)Gln+(-0.0099)Thr+(-0.0107)Pro+(-0.0124)Val+(-0.0608)Trp;0.871,0.885,0.788,0.848,0.815,0.858,0.814,0.843,(4.2016)+(-0.1395)Asn+(0

.0118)Gln+(-0.0164)Val+(-0.0598)Trp;0.871,0.892,0.786,0.856,0.800,0.884,0.855,0.858,(3.5356)+(-0.1318)Asn+(0.0137)Gln+(-0.0064)Ala+(-0.0223)Val+(0.0172)Leu+(-0.0476)Trp;0.871,0.895,0.783,0.856,0.809,0.883,0.834,0.855,(3.3196)+(-0.0940)Asn+(0.0137)Gln+(-0.0059)Ala+(-0.0119)Val+(-0.0813)Met+(-0.0441)Trp;0.871,0.894,0.827,0.871,0.836,0.883,0.878,0.873,(0.9598)+(-0.1351)Asn+(0.0160)Gln+(-0.0078)Ala+(-0.0520)Cit+(0.0412)Phe+(-0.0816)Trp;0.871,0.893,0.764,0.853,0.815,0.869,0.816,0.848,(2.4550)+(-0.0982)Asn+(0.0161)Gln+(-0.0067)Ala+(-0.0235)Arg+(-0.0096)Pro+(-0.0644)Trp;0.871,0.892,0.776,0.849,0.793,0.878,0.831,0.848,(3.8206)+(-0.1186)Asn+(0.0132)Gln+(-0.0064)Ala+(-0.0133)Tyr+(-0.0124)Val+(-0.0433)Trp;0.870,0.895,0.747,0.856,0.822,0.855,0.821,0.849,(4.3566)+(-0.0117)Ser+(-0.1182)Asn+(0.0145)Gln+(-0.0114)Pro+(-0.0134)Val+(-0.0652)Trp;0.870,0.894,0.798,0.863,0.843,0.845,0.839,0.855,(2.2275)+(-0.1449)Asn+(0.0134)Gln+(-0.0143)Pro+(-0.0207)Leu+(0.0611)Phe+(-0.0880)Trp;0.870,0.888,0.802,0.858,0.833,0.870,0.821,0.853,(3.6506)+(-0.1325)Asn+(0.0136)Gln+(-0.0376)Cit+(-0.0136)Val+(-0.0640)Trp;0.870,0.891,0.757,0.847,0.810,0.861,0.796,0.840,(2.9262)+(-0.0988)Asn+(0.0150)Gln+(-0.0074)Ala+(-0.0240)Arg+(-0.0184)Ile+(-0.0589)Trp;0.870,0.893,0.804,0.866,0.829,0.892,0.853,0.867,(2.2383)+(-0.1100)Asn+(0.0157)Gln+(-0.0076)Ala+(-0.0462)Cit+(-0.0036)Lys+(-0.0673)Trp;0.870,0.891,0.785,0.856,0.820,0.878,0.825,0.854,(2.7544)+(-0.1122)Asn+(0.0154)Gln+(-0.0070)Ala+(-0.0444)Cit+(-0.0185)Ile+(-0.0670)Trp;0.870,0.889,0.779,0.853,0.807,0.876,0.838,0.852,(3.3036)+(-0.1156)Asn+(0.0126)Gln+(-0.0077)Ala+(-0.0137)Leu+(-0.0579)Trp;0.870,0.891,0.793,0.864,0.832,0.829,0.885,0.859,(3.9221)+(-0.1340)Asn+(-0.0131)Gly+(0.0158)Gln+(-0.0219)Val+(0.0448)Phe+(-0.0796)Trp;0.870,0.887,0.777,0.851,0.812,0.868,0.825,0.848,(2.4154)+(-0.1035)Asn+(0.0149)Gln+(-0.0082)Ala+(-0.0250)Arg+(-0.0605)Trp;0.870,0.887,0.776,0.846,0.817,0.862,0.787,0.838,(3.8220)+(-0.11

57)Asn+(0.0139)Gln+(-0.0248)Arg+(-0.0159)Val+(-0.0531)Trp;0.869,0.894,0.769,0.855,0.820,0.865,0.818,0.849,(3.9537)+(-0.1292)Asn+(0.0135)Gln+(-0.0032)His+(-0.0113)Pro+(-0.0129)Val+(-0.0608)Trp;0.869,0.886,0.770,0.848,0.817,0.844,0.818,0.841,(4.5838)+(-0.0110)Ser+(-0.1288)Asn+(0.0129)Gln+(-0.0166)Val+(-0.0625)Trp;0.869,0.892,0.809,0.859,0.826,0.841,0.852,0.853,(2.7855)+(-0.1607)Asn+(0.0136)Gln+(-0.0189)Val+(-0.0174)Orn+(0.0584)Phe+(-0.0730)Trp;0.869,0.890,0.784,0.858,0.833,0.859,0.825,0.852,(4.0173)+(-0.0107)Ser+(-0.1216)Asn+(0.0147)Gln+(-0.0370)Cit+(-0.0139)Val+(-0.0667)Trp;0.869,0.892,0.812,0.847,0.806,0.831,0.825,0.839,(3.0304)+(-0.1605)Asn+(0.0130)Gln+(-0.0378)Tyr+(-0.0203)Val+(0.0723)Phe+(-0.0542)Trp;0.869,0.889,0.769,0.854,0.808,0.874,0.846,0.854,(2.7396)+(-0.1199)Asn+(0.0143)Gln+(-0.0068)Ala+(-0.0106)Pro+(-0.0701)Trp;0.869,0.893,0.809,0.867,0.835,0.891,0.848,0.867,(2.0980)+(-0.0922)Asn+(0.0156)Gln+(-0.0068)Ala+(-0.0424)Cit+(-0.0745)Met+(-0.0643)Trp;0.869,0.893,0.766,0.854,0.819,0.864,0.816,0.848,(4.0000)+(-0.1318)Asn+(0.0133)Gln+(-0.0113)Pro+(-0.0134)Val+(0.0005)Lys+(-0.0618)Trp;0.869,0.891,0.751,0.863,0.833,0.841,0.868,0.858,(4.7039)+(-0.0974)Asn+(-0.0145)Gly+(0.0172)Gln+(-0.0123)Pro+(-0.0150)Val+(-0.0765)Trp;0.869,0.891,0.808,0.850,0.827,0.843,0.797,0.839,(0.5776)+(0.0144)Gln+(-0.0263)Arg+(-0.0188)Val+(-0.2381)Met+(0.0788)Phe+(-0.0605)Trp;0.869,0.891,0.802,0.858,0.817,0.884,0.836,0.857,(2.5560)+(-0.1120)Asn+(0.0154)Gln+(-0.0071)Ala+(-0.0471)Cit+(-0.0183)Tyr+(-0.0614)Trp;0.869,0.895,0.775,0.858,0.816,0.872,0.837,0.855,(3.8763)+(-0.1432)Asn+(0.0143)Gln+(-0.0124)Pro+(-0.0277)Val+(0.0274)Leu+(-0.0606)Trp;0.869,0.890,0.804,0.854,0.844,0.836,0.794,0.841,(2.2097)+(-0.1272)Asn+(0.0134)Gln+(-0.0300)Arg+(-0.0274)Leu+(0.0631)Phe+(-0.0756)Trp;0.868,0.883,0.790,0.852,0.806,0.872,0.853,0.853,(2.6780)+(-0.1261)Asn+(0.0130)Gln+(-0.0085)Ala+(-0.0678)Trp;0.868,0.892,0.790,0.863,0.823,0.878,0.860,0.863,(1.8784)

+(-0.0968)Asn+(0.0169)Gln+(-0.0135)Thr+(-0.0073)Ala+(-0.0476)Cit+(-0.0673)Trp;0.868,0.890,0.793,0.861,0.821,0.858,0.867,0.859,(1.5610)+(-0.1371)Asn+(0.0149)Gln+(-0.0067)Ala+(-0.0125)Pro+(0.0418)Phe+(-0.0840)Trp;0.868,0.891,0.803,0.862,0.838,0.881,0.818,0.857,(3.2905)+(-0.0971)Asn+(0.0142)Gln+(-0.0331)Cit+(-0.0121)Val+(-0.0973)Met+(-0.0571)Trp;0.868,0.891,0.765,0.854,0.804,0.873,0.848,0.854,(2.9967)+(-0.0973)Asn+(0.0138)Gln+(-0.0124)Thr+(-0.0074)Ala+(-0.0126)Leu+(-0.0556)Trp;0.868,0.886,0.725,0.831,0.773,0.867,0.778,0.826,(2.8819)+(-0.1086)Asn+(0.0152)Gln+(-0.0074)Ala+(-0.0259)Arg+(-0.0170)Val;0.868,0.890,0.767,0.863,0.821,0.859,0.879,0.862,(4.3460)+(-0.1007)Asn+(-0.0129)Gly+(0.0163)Gln+(-0.0053)Ala+(-0.0153)Val+(-0.0615)Trp;0.868,0.892,0.770,0.852,0.798,0.876,0.841,0.852,(3.4683)+(-0.1172)Asn+(0.0145)Gln+(-0.0070)Ala+(-0.0105)Val+(-0.0181)Orn+(-0.0524)Trp;0.868,0.884,0.818,0.856,0.842,0.832,0.826,0.846,(2.7211)+(-0.1542)Asn+(0.0111)Gln+(-0.0265)Leu+(0.0551)Phe+(-0.0827)Trp;0.868,0.890,0.760,0.858,0.827,0.838,0.853,0.852,(4.5717)+(-0.0861)Asn+(-0.0138)Gly+(0.0171)Gln+(-0.0230)Arg+(-0.0176)Val+(-0.0683)Trp;0.868,0.889,0.784,0.862,0.826,0.874,0.854,0.861,(2.5701)+(-0.0129)Ser+(-0.1025)Asn+(0.0167)Gln+(-0.0081)Ala+(-0.0454)Cit+(-0.0725)Trp;0.868,0.891,0.764,0.844,0.790,0.853,0.824,0.839,(1.1007)+(-0.1035)Asn+(0.0148)Gln+(-0.0057)Ala+(-0.0213)Val+(-0.1699)Met+(0.0641)Phe;0.868,0.886,0.775,0.849,0.811,0.854,0.824,0.844,(3.8432)+(-0.1227)Asn+(0.0129)Gln+(-0.0113)Thr+(-0.0152)Val+(-0.0579)Trp;0.868,0.885,0.794,0.850,0.816,0.861,0.819,0.845,(4.1486)+(-0.1405)Asn+(0.0117)Gln+(-0.0175)Val+(0.0051)Ile+(-0.0589)Trp;0.867,0.889,0.763,0.846,0.816,0.852,0.789,0.837,(4.1138)+(-0.0085)Ser+(-0.1076)Asn+(0.0146)Gln+(-0.0237)Arg+(-0.0160)Val+(-0.0558)Trp;0.867,0.889,0.802,0.858,0.820,0.878,0.843,0.857,(3.3758)+(-0.0996)Asn+(0.0143)Gln+(-0.0330)Val+(-0.1527)Met+(0.0356)Leu+(-0.0467

)Trp;0.867,0.889,0.778,0.846,0.817,0.858,0.787,0.838,(3.9146)+(-0.126
2)Asn+(0.0135)Gln+(-0.0276)Arg+(-0.0178)Val+(0.0066)Lys+(-0.0538)Trp;
0.867,0.890,0.786,0.857,0.825,0.865,0.829,0.852,(3.1465)+(-0.1133)Asn
+(0.0153)Gln+(-0.0128)Thr+(-0.0413)Cit+(-0.0123)Val+(-0.0627)Trp;0.86
7,0.887,0.791,0.853,0.823,0.868,0.811,0.847,(3.6993)+(-0.0978)Asn+(0.
0128)Gln+(-0.0144)Val+(-0.1127)Met+(-0.0514)Trp;0.867,0.892,0.787,0.8
59,0.826,0.815,0.872,0.851,(2.2295)+(-0.0139)Gly+(0.0160)Gln+(-0.0198
)Val+(-0.2375)Met+(0.0599)Phe+(-0.0726)Trp;0.867,0.891,0.787,0.852,0.
826,0.867,0.794,0.845,(3.5652)+(-0.1161)Asn+(0.0146)Gln+(-0.0224)Cit+
(-0.0204)Arg+(-0.0143)Val+(-0.0567)Trp;0.867,0.888,0.801,0.855,0.819,
0.850,0.846,0.851,(1.3118)+(-0.1192)Asn+(0.0154)Gln+(-0.0083)Ala+(-0.
0274)Arg+(0.0394)Phe+(-0.0721)Trp;0.867,0.893,0.764,0.848,0.809,0.858
,0.805,0.841,(4.1690)+(-0.1271)Asn+(0.0134)Gln+(-0.0105)Pro+(-0.0136)
Tyr+(-0.0129)Val+(-0.0553)Trp;0.867,0.889,0.767,0.852,0.808,0.863,0.8
36,0.849,(2.2550)+(-0.0915)Asn+(0.0156)Gln+(-0.0097)Thr+(-0.0079)Ala+
(-0.0222)Arg+(-0.0592)Trp;0.867,0.890,0.813,0.869,0.853,0.861,0.850,0
.864,(1.0150)+(-0.1443)Asn+(0.0168)Gln+(-0.0547)Cit+(-0.0161)Pro+(0.0
524)Phe+(-0.1028)Trp;0.867,0.889,0.742,0.835,0.778,0.850,0.804,0.830,
(1.7622)+(-0.1296)Asn+(0.0158)Gln+(-0.0071)Ala+(-0.0283)Arg+(-0.0220)
Val+(0.0471)Phe;0.867,0.886,0.768,0.859,0.827,0.836,0.869,0.855,(4.96
91)+(-0.1110)Asn+(-0.0143)Gly+(0.0155)Gln+(-0.0184)Val+(-0.0725)Trp;0
.867,0.889,0.751,0.840,0.778,0.881,0.809,0.839,(2.6674)+(-0.1110)Asn+
(0.0152)Gln+(-0.0075)Ala+(-0.0266)Arg+(-0.0212)Val+(0.0204)Ile;0.867,
0.891,0.758,0.855,0.805,0.871,0.855,0.855,(2.5140)+(-0.1026)Asn+(0.01
53)Gln+(-0.0113)Thr+(-0.0066)Ala+(-0.0097)Pro+(-0.0680)Trp;0.867,0.89
1,0.804,0.864,0.827,0.888,0.853,0.865,(2.2343)+(-0.1182)Asn+(0.0153)G
ln+(0.0022)His+(-0.0078)Ala+(-0.0472)Cit+(-0.0702)Trp;0.867,0.890,0.8
24,0.861,0.848,0.837,0.832,0.852,(1.4661)+(-0.1011)Asn+(0.0128)Gln+(-

0.1673)Met+(-0.0215)Leu+(0.0716)Phe+(-0.0740)Trp;0.867,0.893,0.761,0.852,0.816,0.855,0.816,0.845,(3.8915)+(-0.1273)Asn+(0.0141)Gln+(-0.0109)Pro+(-0.0117)Val+(-0.0127)Orn+(-0.0647)Trp;0.866,0.891,0.792,0.858,0.815,0.877,0.849,0.858,(2.3274)+(-0.1132)Asn+(0.0163)Gln+(-0.0077)Ala+(-0.0368)Cit+(-0.0186)Orn+(-0.0697)Trp;0.866,0.891,0.769,0.848,0.813,0.860,0.797,0.840,(3.6054)+(-0.1070)Asn+(0.0144)Gln+(-0.0076)Thr+(-0.0224)Arg+(-0.0151)Val+(-0.0524)Trp;0.866,0.884,0.794,0.849,0.817,0.859,0.816,0.844,(4.1462)+(-0.1374)Asn+(0.0120)Gln+(-0.0048)His+(-0.0158)Val+(-0.0585)Trp;0.866,0.888,0.782,0.848,0.816,0.865,0.797,0.842,(3.7457)+(-0.1167)Asn+(0.0138)Gln+(-0.0250)Arg+(-0.0176)Val+(0.0070)Ile+(-0.0518)Trp;0.866,0.889,0.801,0.857,0.835,0.830,0.836,0.847,(2.4800)+(-0.1360)Asn+(0.0123)Gln+(-0.0118)Thr+(-0.0248)Leu+(0.0514)Phe+(-0.0784)Trp

[0347] ［実施例５で探索された線形判別式の一覧（その１）］

以下に、前述した実施例５で探索された線形判別式を列挙する。なお、式の前には、その式について得られた、「バリデーション有りでの膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値」、「バリデーション無しでの膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と健常群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と他癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣの値」、および「膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣの値の平均値」を、さらに列挙する。

[0348] 0.889,0.900,0.816,0.870,0.844,0.860,0.856,0.865,(5.6262)+(-0.1579)Asn+(0.0147)Gln+(-0.0133)Pro+(-0.0175)Val+(0.0680)Phe+(-0.1047)Trp;0.888,0.899,0.843,0.872,0.850,0.857,0.855,0.865,(4.4024)+(-0.1075)Asn+(0.0147)Gln+(-0.0196)Val+(-0.1775)Met+(0.0888)Phe+(-0.0925)Trp;0.887,0.89

9,0.821,0.868,0.824,0.876,0.872,0.868,(5.7041)+(-0.1372)Asn+(0.0135)Gln+(-0.0082)Ala+(-0.0168)Val+(0.0597)Phe+(-0.0875)Trp;0.887,0.899,0.823,0.866,0.842,0.856,0.832,0.857,(5.4488)+(-0.1451)Asn+(0.0149)Gln+(-0.0236)Arg+(-0.0202)Val+(0.0627)Phe+(-0.0933)Trp;0.885,0.897,0.781,0.860,0.816,0.883,0.839,0.859,(6.9326)+(-0.1143)Asn+(0.0143)Gln+(-0.0069)Ala+(-0.0094)Pro+(-0.0106)Val+(-0.0772)Trp;0.884,0.894,0.781,0.858,0.829,0.869,0.819,0.853,(6.9669)+(-0.1335)Asn+(0.0140)Gln+(-0.0121)Pro+(-0.0128)Val+(-0.0870)Trp;0.884,0.895,0.765,0.858,0.828,0.857,0.819,0.850,(7.2847)+(-0.0106)Ser+(-0.1228)Asn+(0.0152)Gln+(-0.0123)Pro+(-0.0133)Val+(-0.0882)Trp;0.884,0.897,0.786,0.861,0.827,0.872,0.832,0.857,(6.9854)+(-0.1425)Asn+(0.0145)Gln+(-0.0126)Pro+(-0.0230)Val+(0.0187)Leu+(-0.0849)Trp;0.884,0.895,0.787,0.866,0.823,0.876,0.873,0.867,(7.2130)+(-0.1026)Asn+(-0.0072)Gly+(0.0146)Gln+(-0.0076)Ala+(-0.0133)Val+(-0.0770)Trp;0.883,0.895,0.795,0.860,0.815,0.888,0.841,0.860,(6.5615)+(-0.0887)Asn+(0.0138)Gln+(-0.0076)Ala+(-0.0114)Val+(-0.0771)Met+(-0.0674)Trp;0.883,0.897,0.840,0.872,0.851,0.867,0.857,0.868,(5.3307)+(-0.1611)Asn+(0.0143)Gln+(-0.0346)Cit+(-0.0181)Val+(0.0628)Phe+(-0.0999)Trp;0.883,0.896,0.786,0.858,0.816,0.887,0.823,0.856,(6.6882)+(-0.1000)Asn+(0.0150)Gln+(-0.0080)Ala+(-0.0211)Arg+(-0.0123)Val+(-0.0677)Trp;0.883,0.897,0.820,0.860,0.819,0.864,0.848,0.857,(3.8867)+(0.0128)Gln+(-0.0077)Ala+(-0.0159)Val+(-0.2229)Met+(0.0786)Phe+(-0.0839)Trp;0.883,0.897,0.804,0.867,0.826,0.897,0.850,0.867,(6.5607)+(-0.1130)Asn+(0.0146)Gln+(-0.0084)Ala+(-0.0332)Cit+(-0.0101)Val+(-0.0731)Trp;0.883,0.896,0.774,0.867,0.839,0.852,0.859,0.861,(7.3561)+(-0.1163)Asn+(-0.0086)Gly+(0.0160)Gln+(-0.0122)Pro+(-0.0136)Val+(-0.0918)Trp;0.882,0.897,0.774,0.858,0.832,0.868,0.802,0.850,(6.7631)+(-0.1177)Asn+(0.0160)Gln+(-0.0215)Arg+(-0.0116)Pro+(-0.0128)Val+(-0.0819)Trp;0.882,0.892,0.795,0.858,0.812,0.884,0.846,0.858,(6.8850)+(-0.1147)Asn+(0.0131)Gln+(-

0.0083)Ala+(-0.0123)Val+(-0.0721)Trp;0.882,0.895,0.793,0.864,0.840,0.878,0.825,0.859,(6.6455)+(-0.1319)Asn+(0.0155)Gln+(-0.0329)Cit+(-0.0121)Pro+(-0.0107)Val+(-0.0880)Trp;0.882,0.895,0.781,0.859,0.809,0.882,0.852,0.859,(6.5441)+(-0.1000)Asn+(0.0143)Gln+(-0.0107)Thr+(-0.0081)Ala+(-0.0118)Val+(-0.0706)Trp;0.882,0.894,0.804,0.864,0.828,0.894,0.841,0.864,(6.2603)+(-0.1068)Asn+(0.0144)Gln+(-0.0090)Ala+(-0.0386)Cit+(-0.0116)Leu+(-0.0788)Trp;0.882,0.893,0.820,0.863,0.825,0.864,0.862,0.861,(5.3683)+(-0.1256)Asn+(0.0128)Gln+(-0.0090)Ala+(-0.0224)Leu+(0.0598)Phe+(-0.0956)Trp;0.882,0.895,0.773,0.859,0.828,0.862,0.825,0.852,(6.6445)+(-0.1193)Asn+(0.0151)Gln+(-0.0100)Thr+(-0.0115)Pro+(-0.0124)Val+(-0.0851)Trp;0.882,0.895,0.820,0.870,0.844,0.842,0.877,0.864,(6.2093)+(-0.1451)Asn+(-0.0066)Gly+(0.0141)Gln+(-0.0201)Val+(0.0505)Phe+(-0.0993)Trp;0.882,0.894,0.780,0.859,0.824,0.873,0.829,0.855,(5.9832)+(-0.1014)Asn+(0.0159)Gln+(-0.0077)Ala+(-0.0201)Arg+(-0.0106)Pro+(-0.0877)Trp;0.882,0.894,0.800,0.862,0.827,0.878,0.839,0.860,(6.9095)+(-0.1392)Asn+(0.0139)Gln+(-0.0134)Pro+(-0.0188)Val+(0.0238)Ile+(-0.0821)Trp;0.882,0.893,0.817,0.862,0.832,0.848,0.853,0.857,(5.4208)+(-0.1462)Asn+(0.0139)Gln+(-0.0104)Thr+(-0.0195)Val+(0.0586)Phe+(-0.0960)Trp;0.882,0.893,0.813,0.865,0.849,0.842,0.842,0.857,(5.2374)+(-0.1489)Asn+(0.0139)Gln+(-0.0137)Pro+(-0.0218)Leu+(0.0661)Phe+(-0.1155)Trp;0.882,0.895,0.784,0.860,0.832,0.871,0.817,0.854,(6.6358)+(-0.1060)Asn+(0.0146)Gln+(-0.0108)Pro+(-0.0120)Val+(-0.0770)Met+(-0.0810)Trp;0.881,0.895,0.794,0.868,0.833,0.895,0.847,0.868,(5.9674)+(-0.1130)Asn+(0.0160)Gln+(-0.0077)Ala+(-0.0415)Cit+(-0.0105)Pro+(-0.0895)Trp;0.881,0.894,0.779,0.858,0.828,0.865,0.819,0.852,(6.8969)+(-0.1322)Asn+(0.0143)Gln+(-0.0119)Pro+(-0.0121)Val+(-0.0051)Orn+(-0.0876)Trp;0.881,0.892,0.830,0.863,0.837,0.852,0.849,0.858,(5.6927)+(-0.1623)Asn+(0.0127)Gln+(-0.0203)Val+(0.0616)Phe+(-0.0985)Trp;0.881,0.894,0.781,0.858,0.829,0.869,0.

819,0.853,(6.9665)+(-0.1335)Asn+(0.0140)Gln+(-0.0121)Pro+(0.0001)Tyr+(-0.0128)Val+(-0.0870)Trp;0.881,0.893,0.806,0.861,0.809,0.893,0.859,0.863,(6.8469)+(-0.1179)Asn+(0.0129)Gln+(-0.0085)Ala+(-0.0159)Val+(0.0141)Ile+(-0.0686)Trp;0.881,0.892,0.793,0.856,0.806,0.884,0.842,0.856,(6.9147)+(-0.1130)Asn+(0.0131)Gln+(-0.0083)Ala+(-0.0060)Tyr+(-0.0120)Val+(-0.0693)Trp;0.881,0.893,0.778,0.857,0.809,0.877,0.847,0.856,(7.1932)+(-0.0103)Ser+(-0.1041)Asn+(0.0142)Gln+(-0.0084)Ala+(-0.0127)Val+(-0.0730)Trp;0.881,0.893,0.823,0.863,0.835,0.846,0.850,0.856,(5.8716)+(-0.0044)Ser+(-0.1570)Asn+(0.0131)Gln+(-0.0203)Val+(0.0591)Phe+(-0.0983)Trp;0.880,0.894,0.820,0.856,0.835,0.842,0.810,0.845,(3.5425)+(0.0140)Gln+(-0.0214)Arg+(-0.0191)Val+(-0.2368)Met+(0.0827)Phe+(-0.0894)Trp;0.880,0.893,0.811,0.869,0.834,0.897,0.854,0.870,(5.9734)+(-0.1014)Asn+(0.0154)Gln+(-0.0094)Ala+(-0.0431)Cit+(-0.0076)Lys+(-0.0818)Trp;0.880,0.892,0.797,0.859,0.808,0.888,0.854,0.860,(6.8944)+(-0.1203)Asn+(0.0133)Gln+(-0.0082)Ala+(-0.0181)Val+(0.0104)Leu+(-0.0710)Trp;0.880,0.892,0.830,0.864,0.838,0.856,0.848,0.859,(5.7140)+(-0.1570)Asn+(0.0130)Gln+(-0.0195)Val+(-0.0034)Lys+(0.0620)Phe+(-0.0978)Trp;0.880,0.892,0.799,0.862,0.828,0.885,0.839,0.861,(6.0615)+(-0.1104)Asn+(0.0148)Gln+(-0.0090)Ala+(-0.0399)Cit+(-0.0128)Ile+(-0.0850)Trp;0.880,0.894,0.780,0.858,0.829,0.869,0.817,0.852,(6.9990)+(-0.1276)Asn+(0.0143)Gln+(-0.0122)Pro+(-0.0119)Val+(-0.0037)Lys+(-0.0862)Trp;0.880,0.892,0.831,0.863,0.835,0.853,0.853,0.858,(5.7311)+(-0.1642)Asn+(0.0128)Gln+(-0.0231)Val+(0.0052)Leu+(0.0599)Phe+(-0.0974)Trp;0.880,0.892,0.811,0.863,0.842,0.879,0.820,0.858,(6.2140)+(-0.1028)Asn+(0.0145)Gln+(-0.0295)Cit+(-0.0124)Val+(-0.0968)Met+(-0.0767)Trp;0.880,0.892,0.790,0.857,0.808,0.880,0.846,0.857,(6.7511)+(-0.1117)Asn+(0.0137)Gln+(-0.0085)Ala+(-0.0108)Val+(-0.0099)Orn+(-0.0730)Trp;0.880,0.892,0.792,0.858,0.812,0.887,0.843,0.859,(6.9106)+(-0.1099)Asn+(0.0133)Gln+(-0.0084)Ala+(-0.011

5)Val+(-0.0030)Lys+(-0.0713)Trp;0.880,0.894,0.814,0.863,0.835,0.824,0.870,0.856,(4.4168)+(-0.0089)Gly+(0.0146)Gln+(-0.0189)Val+(-0.2484)Met+(0.0709)Phe+(-0.0943)Trp;0.880,0.893,0.799,0.867,0.841,0.858,0.860,0.863,(7.0140)+(-0.1230)Asn+(-0.0077)Gly+(0.0151)Gln+(-0.0252)Cit+(-0.0149)Val+(-0.0879)Trp;0.880,0.892,0.783,0.863,0.824,0.865,0.866,0.862,(6.9325)+(-0.0931)Asn+(-0.0076)Gly+(0.0142)Gln+(-0.0083)Ala+(-0.0170)Leu+(-0.0843)Trp;0.880,0.894,0.777,0.859,0.814,0.865,0.857,0.857,(6.3357)+(-0.0095)Gly+(0.0145)Gln+(-0.0072)Ala+(-0.0121)Val+(-0.1494)Met+(-0.0731)Trp;0.880,0.892,0.827,0.864,0.837,0.850,0.853,0.858,(5.5559)+(-0.1603)Asn+(0.0132)Gln+(-0.0191)Val+(-0.0089)Orn+(0.0624)Phe+(-0.0998)Trp;0.879,0.893,0.804,0.865,0.833,0.886,0.843,0.864,(5.6813)+(-0.1039)Asn+(0.0155)Gln+(-0.0094)Ala+(-0.0330)Cit+(-0.0146)Arg+(-0.0837)Trp;0.879,0.893,0.791,0.865,0.837,0.854,0.858,0.861,(6.8301)+(-0.0783)Asn+(-0.0092)Gly+(0.0155)Gln+(-0.0149)Val+(-0.1177)Met+(-0.0794)Trp;0.879,0.893,0.839,0.871,0.862,0.859,0.839,0.863,(4.8814)+(-0.1511)Asn+(0.0138)Gln+(-0.0433)Cit+(-0.0242)Leu+(0.0637)Phe+(-0.1101)Trp;0.879,0.890,0.814,0.865,0.830,0.889,0.855,0.866,(5.7663)+(-0.1134)Asn+(0.0147)Gln+(-0.0096)Ala+(-0.0435)Cit+(-0.0861)Trp;0.879,0.893,0.833,0.864,0.836,0.853,0.852,0.859,(5.6873)+(-0.1634)Asn+(0.0126)Gln+(-0.0215)Val+(0.0047)Ile+(0.0612)Phe+(-0.0973)Trp;0.879,0.890,0.793,0.862,0.832,0.850,0.861,0.858,(7.2952)+(-0.1227)Asn+(-0.0085)Gly+(0.0142)Gln+(-0.0166)Val+(-0.0876)Trp;0.879,0.892,0.815,0.867,0.834,0.892,0.853,0.868,(5.5186)+(-0.0871)Asn+(0.0153)Gln+(-0.0088)Ala+(-0.0400)Cit+(-0.0784)Met+(-0.0804)Trp;0.879,0.894,0.784,0.863,0.836,0.856,0.846,0.858,(7.0712)+(-0.1079)Asn+(-0.0079)Gly+(0.0161)Gln+(-0.0213)Arg+(-0.0164)Val+(-0.0823)Trp;0.879,0.893,0.831,0.857,0.825,0.840,0.840,0.849,(5.5862)+(-0.1584)Asn+(0.0131)Gln+(-0.0256)Tyr+(-0.0196)Val+(0.0733)Phe+(-0.0894)Trp;0.879,0.892,0.792,0.857,0.810,0.884,0.846,0.858,(6.9019)

+(-0.1155)Asn+(0.0130)Gln+(0.0022)His+(-0.0084)Ala+(-0.0125)Val+(-0.0726)Trp;0.879,0.891,0.779,0.859,0.819,0.882,0.842,0.858,(6.3848)+(-0.1030)Asn+(0.0148)Gln+(-0.0078)Ala+(-0.0109)Pro+(-0.0077)Lys+(-0.0876)Trp;0.879,0.892,0.833,0.872,0.840,0.885,0.879,0.874,(4.7127)+(-0.1290)Asn+(0.0150)Gln+(-0.0098)Ala+(-0.0476)Cit+(0.0408)Phe+(-0.1005)Trp;0.879,0.892,0.782,0.855,0.819,0.876,0.818,0.851,(6.3732)+(-0.0919)Asn+(0.0146)Gln+(-0.0087)Ala+(-0.0218)Arg+(-0.0148)Leu+(-0.0745)Trp;0.879,0.893,0.771,0.864,0.844,0.838,0.850,0.856,(7.0000)+(-0.1097)Asn+(-0.0090)Gly+(0.0155)Gln+(-0.0127)Pro+(-0.0160)Leu+(-0.1017)Trp;0.878,0.890,0.793,0.852,0.826,0.861,0.798,0.844,(6.6960)+(-0.1224)Asn+(0.0144)Gln+(-0.0230)Arg+(-0.0156)Val+(-0.0775)Trp;0.878,0.893,0.801,0.867,0.828,0.884,0.864,0.867,(5.4919)+(-0.0996)Asn+(0.0158)Gln+(-0.0102)Thr+(-0.0093)Ala+(-0.0405)Cit+(-0.0843)Trp;0.878,0.894,0.785,0.859,0.830,0.867,0.820,0.853,(6.9384)+(-0.1319)Asn+(0.0142)Gln+(-0.0038)His+(-0.0121)Pro+(-0.0124)Val+(-0.0860)Trp;0.878,0.892,0.831,0.864,0.838,0.853,0.850,0.858,(5.6808)+(-0.1616)Asn+(0.0127)Gln+(-0.0016)His+(-0.0201)Val+(0.0616)Phe+(-0.0980)Trp;0.878,0.892,0.782,0.855,0.813,0.867,0.835,0.852,(5.7538)+(-0.0967)Asn+(0.0156)Gln+(-0.0096)Ala+(-0.0200)Arg+(-0.0165)Orn+(-0.0827)Trp;0.878,0.890,0.811,0.861,0.829,0.877,0.838,0.858,(6.3792)+(-0.1045)Asn+(0.0142)Gln+(-0.0279)Val+(-0.1311)Met+(0.0255)Leu+(-0.0702)Trp;0.878,0.890,0.793,0.856,0.818,0.875,0.835,0.854,(5.7816)+(-0.1013)Asn+(0.0146)Gln+(-0.0096)Ala+(-0.0211)Arg+(-0.0842)Trp;0.878,0.890,0.795,0.860,0.837,0.860,0.826,0.853,(6.8735)+(-0.0096)Ser+(-0.1285)Asn+(0.0147)Gln+(-0.0331)Cit+(-0.0141)Val+(-0.0849)Trp;0.878,0.885,0.801,0.852,0.823,0.859,0.819,0.847,(6.9114)+(-0.1396)Asn+(0.0122)Gln+(-0.0158)Val+(-0.0828)Trp;0.878,0.891,0.817,0.856,0.820,0.855,0.838,0.851,(3.7293)+(0.0120)Gln+(-0.0088)Ala+(-0.1992)Met+(-0.0195)Leu+(0.0739)Phe+(-0.0925)Trp;0.878,0.891,0.775,0.853,0.817,0.871

,0.812,0.848,(6.1747)+(-0.0969)Asn+(0.0149)Gln+(-0.0088)Ala+(-0.0208)Arg+(-0.0180)Ile+(-0.0824)Trp;0.878,0.889,0.790,0.855,0.812,0.879,0.838,0.854,(6.5522)+(-0.1074)Asn+(0.0126)Gln+(-0.0091)Ala+(-0.0142)Leu+(-0.0794)Trp;0.878,0.892,0.778,0.866,0.831,0.868,0.869,0.865,(6.4265)+(-0.1040)Asn+(-0.0068)Gly+(0

.0156)Gln+(-0.0073)Ala+(-0.0115)Pro+(-0.0982)Trp;0.878,0.890,0.783,0.854,0.809,0.875,0.840,0.853,(6.4197)+(-0.1045)Asn+(0.0135)Gln+(-0.0092)Ala+(-0.0136)Orn+(-0.0117)Leu+(-0.0795)Trp;0.878,0.889,0.776,0.855,0.816,0.873,0.835,0.853,(6.3761)+(-0.1128)Asn+(0.0142)Gln+(-0.0077)Ala+(-0.0100)Pro+(-0.0099)Ile+(-0.0907)Trp;0.878,0.892,0.778,0.858,0.819,0.881,0.834,0.856,(6.5926)+(-0.1089)Asn+(0.0139)Gln+(-0.0076)Ala+(-0.0096)Pro+(-0.0109)Leu+(-0.0845)Trp;0.878,0.891,0.787,0.863,0.827,0.867,0.861,0.862,(5.9954)+(-0.0924)Asn+(-0.0058)Gly+(0.0157)Gln+(-0.0091)Ala+(-0.0200)Arg+(-0.0896)Trp;0.878,0.891,0.820,0.860,0.850,0.842,0.808,0.848,(5.0158)+(-0.1329)Asn+(0.0141)Gln+(-0.0251)Arg+(-0.0276)Leu+(0.0632)Phe+(-0.1045)Trp;0.878,0.891,0.816,0.867,0.852,0.823,0.865,0.858,(5.8682)+(-0.1317)Asn+(-0.0074)Gly+(0.0133)Gln+(-0.0277)Leu+(0.0496)Phe+(-0.1107)Trp;0.878,0.892,0.763,0.845,0.786,0.866,0.829,0.843,(4.0631)+(-0.0946)Asn+(0.0139)Gln+(-0.0085)Ala+(-0.0210)Val+(-0.1618)Met+(0.0588)Phe;0.878,0.890,0.776,0.855,0.808,0.874,0.845,0.854,(6.2087)+(-0.0904)Asn+(0.0140)Gln+(-0.0123)Thr+(-0.0087)Ala+(-0.0144)Leu+(-0.0769)Trp;0.877,0.891,0.818,0.857,0.834,0.843,0.822,0.848,(3.6186)+(0.0132)Gln+(-0.0103)Pro+(-0.0170)Val+(-0.2461)Met+(0.0860)Phe+(-0.0991)Trp;0.877,0.891,0.794,0.852,0.826,0.859,0.799,0.844,(6.6475)+(-0.1264)Asn+(0.0143)Gln+(-0.0250)Arg+(-0.0165)Val+(0.0035)Lys+(-0.0779)Trp;0.877,0.888,0.804,0.856,0.830,0.866,0.818,0.851,(6.4700)+(-0.1014)Asn+(0.0133)Gln+(-0.0142)Val+(-0.1045)Met+(-0.0752)Trp;0.877,0.890,0.774,0.857,0.813,0.880,0.848,0.858,(6.1290)+(-0.1107)Asn+(0.0150)Gln+

(-0.0081)Ala+(-0.0101)Pro+(-0.0146)Orn+(-0.0902)Trp;0.877,0.891,0.795,0.856,0.813,0.881,0.838,0.856,(6.2061)+(-0.0850)Asn+(0.0132)Gln+(-0.0085)Ala+(-0.0709)Met+(-0.0116)Leu+(-0.0757)Trp;0.877,0.892,0.773,0.848,0.805,0.880,0.800,0.844,(5.7439)+(0.0138)Gln+(-0.0083)Ala+(-0.0216)Arg+(-0.0111)Val+(-0.1216)Met+(-0.0645)Trp;0.877,0.889,0.786,0.857,0.822,0.841,0.853,0.851,(7.4364)+(-0.1144)Asn+(-0.0094)Gly+(0.0147)Gln+(-0.0197)Tyr+(-0.0155)Val+(-0.0789)Trp;0.877,0.888,0.727,0.835,0.774,0.878,0.791,0.833,(5.8092)+(-0.1082)Asn+(0.0145)Gln+(-0.0095)Ala+(-0.0245)Arg+(-0.0175)Val;0.877,0.887,0.784,0.851,0.821,0.849,0.821,0.844,(7.1934)+(-0.0094)Ser+(-0.1302)Asn+(0.0132)Gln+(-0.0162)Val+(-0.0838)Trp;0.877,0.889,0.814,0.860,0.833,0.872,0.832,0.857,(6.6160)+(-0.1436)Asn+(0.0139)Gln+(-0.0312)Cit+(-0.0198)Val+(0.0110)Leu+(-0.0825)Trp;0.877,0.890,0.840,0.865,0.853,0.840,0.841,0.856,(4.0702)+(-0.1032)Asn+(0.0135)Gln+(-0.1606)Met+(-0.0231)Leu+(0.0822)Phe+(-0.1055)Trp;0.877,0.891,0.806,0.871,0.840,0.883,0.875,0.872,(5.9695)+(-0.1050)Asn+(-0.0052)Gly+(0.0156)Gln+(-0.0092)Ala+(-0.0393)Cit+(-0.0909)Trp;0.877,0.889,0.790,0.849,0.795,0.884,0.830,0.849,(5.7019)+(0.0122)Gln+(-0.0082)Ala+(-0.0197)Val+(-0.1701)Met+(0.0163)Leu+(-0.0649)Trp;0.877,0.890,0.784,0.862,0.819,0.859,0.877,0.861,(6.1519)+(-0.1002)Asn+(-0.0061)Gly+(0.0151)Gln+(-0.0094)Ala+(-0.0174)Orn+(-0.0921)Trp

[0349] ［実施例５で探索されたロジスティック回帰式の一覧（その２）］

以下に、前述した実施例５で探索されたロジスティック回帰式を列挙する。なお、式の前には、その式について得られた、「バリデーション有りでの膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値」、「バリデーション無しでの膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と健常群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と他癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣの値」、および「膵臓癌群と肺

癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣの値の平均値」を、さらに列挙する。

[0350] 0.858,0.882,0.854,0.866,0.854,0.854,0.858,0.862,(0.7428)+(-0.0948)Asn+(0.0147)Gln+(-0.0250)His+(-0.1901)Met+(0.0579)Phe+(-0.0741)Trp;0.850,0.872,0.854,0.852,0.838,0.842,0.835,0.847,(0.1340)+(0.0125)Gln+(-0.0287)His+(-0.2660)Met+(0.0561)Phe+(-0.0760)Trp;0.849,0.877,0.853,0.859,0.851,0.853,0.835,0.854,(-0.3557)+(0.0142)Gln+(-0.0176)His+(-0.0454)Cit+(-0.2515)Met+(0.0595)Phe+(-0.0844)Trp;0.829,0.855,0.852,0.847,0.854,0.845,0.814,0.842,(4.2366)+(0.0090)Ser+(-0.0506)Asn+(-0.0181)Cit+(-0.1342)Met+(0.0480)Phe+(-0.0762)Trp;0.847,0.874,0.852,0.854,0.839,0.849,0.837,0.849,(0.1888)+(0.0131)Gln+(-0.0262)His+(-0.2534)Met+(-0.0053)Lys+(0.0573)Phe+(-0.0743)Trp;0.814,0.834,0.851,0.825,0.816,0.835,0.816,0.825,(1.8629)+(0.0072)Gln+(-0.0495)His+(0.0085)Phe+(-0.0904)Trp;0.815,0.842,0.850,0.835,0.834,0.846,0.812,0.833,(1.0816)+(0.0096)Gln+(-0.0322)His+(-0.0580)Cit+(0.0197)Phe+(-0.1039)Trp;0.862,0.887,0.849,0.872,0.863,0.864,0.853,0.867,(0.4080)+(-0.1010)Asn+(0.0158)Gln+(-0.0511)Cit+(-0.1773)Met+(0.0598)Phe+(-0.0872)Trp;0.854,0.882,0.849,0.872,0.865,0.869,0.860,0.869,(1.3668)+(-0.1519)Asn+(0.0150)Gln+(-0.0162)His+(-0.0523)Cit+(0.0410)Phe+(-0.0924)Trp;0.842,0.869,0.848,0.843,0.822,0.833,0.821,0.836,(0.3205)+(0.0127)Gln+(-0.0317)His+(-0.0234)Tyr+(-0.2412)Met+(0.0628)Phe+(-0.0681)Trp;0.842,0.866,0.847,0.844,0.824,0.854,0.821,0.841,(4.0284)+(0.0066)Ser+(-0.0215)Val+(-0.1905)Met+(0.0235)Ile+(0.0641)Phe+(-0.0531)Trp;0.851,0.877,0.846,0.854,0.846,0.843,0.819,0.846,(-0.0588)+(0.0148)Gln+(-0.0282)His+(-0.0253)Arg+(-0.2362)Met+(0.0598)Phe+(-0.0718)Trp;0.828,0.853,0.845,0.841,0.846,0.834,0.800,0.833,(4.2868)+(0.0091)Ser+(-0.0489)Asn+(-0.0098)Arg+(-0.1330)Met+(0.0480)Phe+(-0.0729)Trp;0.819,0.849,0.844,0.841,0.846,0.833,0.817,0.836

,(5.0808)+(0.0052)Ser+(-0.0891)Asn+(-0.0263)Cit+(-0.0008)Lys+(0.0305)Phe+(-0.0861)Trp;0.849,0.870,0.844,0.858,0.845,0.844,0.859,0.855,(1.9743)+(-0.1549)Asn+(0.0132)Gln+(-0.0321)His+(0.0345)Phe+(-0.0834)Trp;0.827,0.854,0.844,0.850,0.850,0.836,0.847,0.847,(4.6405)+(0.0158)Ser+(-0.0352)Asn+(-0.0068)Gly+(-0.1493)Met+(0.0411)Phe+(-0.0800)Trp;0.847,0.873,0.844,0.845,0.816,0.831,0.842,0.841,(2.1375)+(-0.1449)Asn+(0.0136)Gln+(-0.0342)His+(-0.0424)Tyr+(0.0534)Phe+(-0.0658)Trp;0.825,0.848,0.844,0.841,0.846,0.832,0.817,0.836,(5.0770)+(0.0049)Ser+(-0.0907)Asn+(-0.0265)Cit+(0.0301)Phe+(-0.0866)Trp;0.825,0.857,0.844,0.845,0.839,0.858,0.817,0.843,(0.8822)+(0.0124)Gln+(-0.0225)His+(-0.0628)Cit+(-0.0158)Lys+(0.0326)Phe+(-0.0992)Trp;0.818,0.833,0.843,0.823,0.812,0.839,0.808,0.823,(2.1373)+(0.0072)Gln+(-0.0478)His+(-0.0877)Trp;0.848,0.875,0.843,0.860,0.845,0.850,0.859,0.857,(1.9446)+(-0.1433)Asn+(0.0137)Gln+(-0.0299)His+(-0.0060)Lys+(0.0365)Phe+(-0.0810)Trp;0.824,0.852,0.843,0.841,0.843,0.831,0.815,0.835,(4.1715)+(0.0078)Ser+(-0.0549)Asn+(-0.1513)Met+(0.0019)Lys+(0.0463)Phe+(-0.0764)Trp;0.828,0.852,0.842,0.841,0.844,0.833,0.812,0.835,(4.2086)+(0.0081)Ser+(-0.0527)Asn+(-0.1471)Met+(0.0468)Phe+(-0.0754)Trp;0.841,0.865,0.842,0.854,0.842,0.863,0.841,0.853,(4.3533)+(0.0072)Ser+(-0.0423)Asn+(-0.0047)Ala+(-0.1106)Met+(0.0440)Phe+(-0.0678)Trp;0.821,0.846,0.842,0.836,0.845,0.829,0.798,0.829,(3.8441)+(0.0056)Ser+(-0.0198)Cit+(-0.1786)Met+(0.0461)Phe+(-0.0797)Trp;0.824,0.851,0.841,0.846,0.849,0.829,0.841,0.843,(4.4498)+(0.0145)Ser+(-0.0073)Gly+(-0.0108)Cit+(-0.1718)Met+(0.0398)Phe+(-0.0827)Trp;0.816,0.846,0.841,0.836,0.845,0.828,0.798,0.829,(3.8269)+(0.0055)Ser+(-0.0199)Cit+(-0.1805)Met+(0.0006)Lys+(0.0459)Phe+(-0.0801)Trp;0.821,0.849,0.841,0.819,0.794,0.828,0.784,0.814,(1.0434)+(0.0113)Gln+(-0.0327)His+(-0.0618)Cit+(-0.0563)Tyr+(0.0498)Phe+(-0.0851)Trp;0.839,0.864,0.841,0.854,0.839,0.873,0.845,0.855,(5.0156)+(0.0046)Ser+(-0.066

1)Asn+(-0.0057)Ala+(-0.0191)Cit+(0.0314)Phe+(-0.0739)Trp;0.850,0.873,0.840,0.853,0.847,0.839,0.821,0.845,(-0.2044)+(0.0133)Gln+(-0.0518)Cit+(-0.2611)Met+(0.0571)Phe+(-0.0912)Trp;0.824,0.858,0.840,0.840,0.836,0.849,0.796,0.835,(0.8827)+(0.0125)Gln+(-0.0379)His+(-0.0341)Cit+(-0.0328)Arg+(0.0302)Phe+(-0.0928)Trp;0.828,0.854,0.840,0.842,0.845,0.829,0.813,0.835,(4.2894)+(0.0094)Ser+(-0.0460)Asn+(-0.1485)Met+(-0.0127)Orn+(0.0512)Phe+(-0.0757)Trp;0.823,0.849,0.840,0.832,0.817,0.842,0.815,0.831,(1.7645)+(0.0094)Gln+(-0.0404)His+(-0.0142)Lys+(0.0181)Phe+(-0.0838)Trp;0.835,0.861,0.840,0.851,0.843,0.862,0.831,0.849,(4.0445)+(0.0049)Ser+(-0.0049)Ala+(-0.0146)Cit+(-0.1341)Met+(0.0436)Phe+(-0.0704)Trp;0.825,0.852,0.839,0.840,0.842,0.831,0.813,0.834,(4.2041)+(0.0089)Ser+(-0.0500)Asn+(-0.0026)Thr+(-0.1429)Met+(0.0462)Phe+(-0.0746)Trp;0.817,0.847,0.839,0.833,0.840,0.828,0.789,0.826,(3.9284)+(0.0063)Ser+(-0.0128)Cit+(-0.0083)Arg+(-0.1698)Met+(0.0466)Phe+(-0.0770)Trp;0.819,0.847,0.838,0.838,0.842,0.825,0.817,0.832,(5.1270)+(0.0052)Ser+(-0.0889)Asn+(-0.0228)Cit+(-0.0054)Orn+(0.0310)Phe+(-0.0868)Trp;0.845,0.870,0.838,0.848,0.833,0.829,0.835,0.842,(0.6178)+(-0.0085)Ser+(0.0134)Gln+(-0.0277)His+(-0.2538)Met+(0.0513)Phe+(-0.0776)Trp;0.815,0.845,0.838,0.834,0.843,0.823,0.795,0.826,(3.8019)+(0.0052)Ser+(0.0065)His+(-0.0227)Cit+(-0.1841)Met+(0.0460)Phe+(-0.0827)Trp;0.818,0.846,0.838,0.846,0.850,0.828,0.849,0.843,(5.4768)+(0.0107)Ser+(-0.0790)Asn+(-0.0056)Gly+(-0.0201)Cit+(0.0236)Phe+(-0.0904)Trp;0.819,0.842,0.838,0.833,0.831,0.853,0.800,0.831,(1.7423)+(0.0093)Gln+(-0.0296)His+(-0.0545)Cit+(-0.0967)Trp;0.849,0.875,0.838,0.856,0.849,0.849,0.824,0.849,(-0.1630)+(0.0142)Gln+(-0.0518)Cit+(-0.2409)Met+(-0.0071)Lys+(0.0593)Phe+(-0.0880)Trp;0.823,0.852,0.838,0.839,0.843,0.825,0.808,0.832,(4.1903)+(0.0078)Ser+(-0.0549)Asn+(0.0046)His+(-0.1504)Met+(0.0467)Phe+(-0.0772)Trp;0.820,0.845,0.837,0.824,0.816,0.814,0.790,0.816,(5.2767)+(0.0061

)Ser+(-0.0846)Asn+(-0.0270)Cit+(-0.0375)Tyr+(0.0493)Phe+(-0.0740)Trp;0.817,0.839,0.837,0.807,0.776,0.811,0.782,0.802,(1.9795)+(0.0084)Gln+(-0.0502)His+(-0.0534)Tyr+(0.0358)Phe+(-0.0708)Trp;0.817,0.846,0.837,0.838,0.845,0.822,0.814,0.832,(5.0582)+(0.0046)Ser+(-0.0958)Asn+(0.0082)His+(-0.0304)Cit+(0.0301)Phe+(-0.0905)Trp;0.857,0.881,0.837,0.852,0.827,0.840,0.834,0.845,(1.5102)+(-0.1492)Asn+(0.0153)Gln+(-0.0648)Cit+(-0.0467)Tyr+(0.0627)Phe+(-0.0839)Trp;0.825,0.852,0.837,0.844,0.846,0.828,0.832,0.840,(4.5273)+(0.0152)Ser+(-0.0074)Gly+(-0.0089)Arg+(-0.1647)Met+(0.0400)Phe+(-0.0798)Trp;0.859,0.883,0.837,0.871,0.866,0.872,0.853,0.868,(1.4133)+(-0.1411)Asn+(0.0151)Gln+(-0.0593)Cit+(-0.0077)Lys+(0.0430)Phe+(-0.0961)Trp;0.819,0.848,0.837,0.839,0.841,0.830,0.818,0.834,(4.9911)+(0.0070)Ser+(-0.0822)Asn+(-0.0055)Thr+(-0.0251)Cit+(0.0299)Phe+(-0.0844)Trp;0.854,0.879,0.837,0.850,0.835,0.836,0.816,0.841,(0.5649)+(0.0116)Gln+(-0.0186)His+(-0.2464)Met+(-0.0179)Leu+(0.0691)Phe+(-0.0718)Trp;0.852,0.877,0.837,0.857,0.847,0.845,0.835,0.851,(1.5634)+(-0.1301)Asn+(0.0151)Gln+(-0.0298)His+(-0.0280)Arg+(0.0417)Phe+(-0.0789)Trp;0.830,0.860,0.836,0.825,0.801,0.835,0.777,0.818,(1.3370)+(0.0122)Gln+(-0.0471)His+(-0.0339)Arg+(-0.0423)Tyr+(0.0450)Phe+(-0.0690)Trp;0.829,0.854,0.836,0.834,0.825,0.840,0.792,0.828,(1.2668)+(0.0117)Gln+(-0.0469)His+(-0.0386)Arg+(0.0258)Phe+(-0.0838)Trp;0.816,0.846,0.836,0.835,0.841,0.826,0.799,0.828,(3.8669)+(0.0070)Ser+(-0.0040)Thr+(-0.0185)Cit+(-0.1691)Met+(0.0450)Phe+(-0.0781)Trp;0.820,0.847,0.835,0.837,0.845,0.827,0.801,0.830,(5.0812)+(0.0060)Ser+(-0.0840)Asn+(-0.0173)Cit+(-0.0112)Arg+(0.0323)Phe+(-0.0829)Trp;0.841,0.870,0.835,0.848,0.830,0.846,0.828,0.843,(5.3439)+(-0.0433)Asn+(-0.0210)Val+(-0.1218)Met+(0.0202)Ile+(0.0593)Phe+(-0.0510)Trp;0.845,0.871,0.835,0.846,0.833,0.848,0.805,0.839,(4.9169)+(0.0093)Ser+(-0.0553)Asn+(-0.0165)Val+(-0.1210)Met+(0.0656)Phe+(-0.0552)Trp;0.831,0.861,0.835,0.852,0.84

0,0.849,0.855,0.851,(4.5027)+(0.0121)Ser+(-0.0062)Gly+(-0.0041)Ala+(-0.1428)Met+(0.0381)Phe+(-0.0742)Trp;0.837,0.866,0.835,0.842,0.822,0.843,0.818,0.837,(4.6202)+(0.0010)Thr+(-0.0212)Val+(-0.1756)Met+(0.0220)Ile+(0.0604)Phe+(-0.0539)Trp;0.858,0.879,0.835,0.867,0.861,0.859,0.851,0.863,(1.5215)+(-0.1583)Asn+(0.0143)Gln+(-0.0586)Cit+(0.0393)Phe+(-0.0991)Trp;0.856,0.877,0.835,0.857,0.847,0.835,0.843,0.850,(1.0599)+(-0.1017)Asn+(0.0131)Gln+(-0.2016)Met+(0.0547)Phe+(-0.0825)Trp;0.858,0.884,0.835,0.856,0.848,0.842,0.807,0.845,(0.1226)+(0.0129)Gln+(-0.0471)Cit+(-0.2338)Met+(-0.0187)Leu+(0.0725)Phe+(-0.0833)Trp;0.826,0.849,0.834,0.843,0.842,0.824,0.842,0.839,(4.4781)+(0.0146)Ser+(-0.0079)Gly+(-0.1791)Met+(0.0385)Phe+(-0.0826)Trp;0.853,0.878,0.834,0.859,0.848,0.840,0.844,0.852,(1.0584)+(-0.0965)Asn+(0.0134)Gln+(-0.1950)Met+(-0.0040)Lys+(0.0558)Phe+(-0.0810)Trp;0.842,0.873,0.834,0.842,0.828,0.826,0.801,0.832,(-0.0812)+(0.0137)Gln+(-0.0559)Cit+(-0.0258)Tyr+(-0.2345)Met+(0.0654)Phe+(-0.0853)Trp;0.838,0.865,0.834,0.841,0.823,0.842,0.816,0.836,(4.5768)+(-0.0192)Val+(-0.1714)Met+(0.0246)Ile+(-0.0048)Leu+(0.0609)Phe+(-0.0537)Trp;0.823,0.849,0.834,0.843,0.842,0.821,0.842,0.839,(4.4515)+(0.0144)Ser+(-0.0080)Gly+(-0.1833)Met+(0.0013)Lys+(0.0380)Phe+(-0.0835)Trp;0.860,0.885,0.834,0.858,0.823,0.862,0.859,0.857,(0.0513)+(0.0130)Gln+(-0.0179)His+(-0.0065)Ala+(-0.2216)Met+(0.0524)Phe+(-0.0679)Trp;0.836,0.865,0.834,0.840,0.820,0.833,0.825,0.835,(4.2506)+(-0.0254)Val+(-0.2105)Met+(0.0096)Lys+(0.0272)Ile+(0.0623)Phe+(-0.0545)Trp;0.863,0.886,0.834,0.853,0.823,0.845,0.837,0.848,(0.6071)+(0.0117)Gln+(-0.0226)Val+(-0.2849)Met+(0.0182)Ile+(0.0760)Phe+(-0.0599)Trp;0.817,0.849,0.834,0.834,0.839,0.819,0.795,0.825,(3.9336)+(0.0070)Ser+(-0.0110)Cit+(-0.1814)Met+(-0.0123)Orn+(0.0500)Phe+(-0.0793)Trp;0.829,0.857,0.834,0.834,0.830,0.826,0.787,0.825,(3.8834)+(0.0037)Ser+(-0.1711)Met+(0.0188)Ile+(-0.0302)Leu+(0.0639)Phe+(-0.0667)Trp;0.864,0.

889,0.833,0.864,0.838,0.867,0.852,0.861,(-0.3713)+(0.0143)Gln+(-0.006
6)Ala+(-0.0470)Cit+(-0.2090)Met+(0.0545)Phe+(-0.0788)Trp;0.865,0.885,
0.833,0.860,0.843,0.841,0.840,0.852,(2.4858)+(-0.1478)Asn+(0.0122)Gln
+(-0.0184)His+(-0.0240)Leu+(0.0557)Phe+(-0.0765)Trp;0.823,0.853,0.833
,0.844,0.844,0.820,0.839,0.839,(4.5097)+(0.0151)Ser+(-0.0071)Gly+(-0.
1764)Met+(-0.0107)Orn+(0.0427)Phe+(-0.0818)Trp;0.834,0.867,0.833,0.84
3,0.823,0.844,0.818,0.838,(4.6666)+(-0.0029)Cit+(-0.0208)Val+(-0.1692
)Met+(0.0218)Ile+(0.0596)Phe+(-0.0540)Trp;0.848,0.876,0.833,0.852,0.8
46,0.839,0.809,0.843,(-0.2120)+(0.0143)Gln+(-0.0394)Cit+(-0.0184)Arg+
(-0.2462)Met+(0.0592)Phe+(-0.0864)Trp;0.836,0.863,0.833,0.847,0.836,0
.856,0.819,0.843,(4.1396)+(0.0054)Ser+(-0.0050)Ala+(-0.0095)Arg+(-0.1
284)Met+(0.0433)Phe+(-0.0674)
Trp;0.840,0.866,0.833,0.842,0.822,0.841,0.818,0.837,(4.6547)+(-0.0210
)Val+(-0.1721)Met+(0.0221)Ile+(0.0597)Phe+(-0.0535)Trp;0.857,0.882,0.
833,0.854,0.830,0.823,0.853,0.847,(-0.3303)+(0.0173)Gln+(-0.0335)His+
(-0.2786)Met+(-0.0450)Orn+(0.0737)Phe+(-0.0766)Trp;0.821,0.853,0.832,
0.817,0.784,0.825,0.788,0.812,(1.9308)+(0.0100)Gln+(-0.0423)His+(-0.0
473)Tyr+(-0.0118)Lys+(0.0402)Phe+(-0.0675)Trp;0.871,0.893,0.832,0.870
,0.859,0.859,0.836,0.862,(1.8582)+(-0.1462)Asn+(0.0139)Gln+(-0.0518)C
it+(-0.0240)Leu+(0.0618)Phe+(-0.0862)Trp;0.817,0.847,0.832,0.826,0.82
2,0.813,0.788,0.817,(4.5513)+(0.0078)Ser+(-0.0595)Asn+(-0.0244)Tyr+(-
0.1146)Met+(0.0542)Phe+(-0.0692)Trp;0.814,0.841,0.832,0.828,0.831,0.8
18,0.795,0.821,(3.8053)+(0.0045)Ser+(-0.0007)His+(-0.1948)Met+(0.0002
)Lys+(0.0445)Phe+(-0.0786)Trp;0.836,0.867,0.832,0.843,0.824,0.844,0.8
18,0.838,(4.7117)+(-0.0207)Val+(-0.1706)Met+(-0.0044)Orn+(0.0233)Ile+
(0.0602)Phe+(-0.0539)Trp;0.846,0.873,0.832,0.850,0.823,0.863,0.838,0.
849,(4.7306)+(-0.0034)Ala+(-0.0191)Val+(-0.1422)Met+(0.0208)Ile+(0.05
62)Phe+(-0.0487)Trp;0.803,0.819,0.832,0.814,0.819,0.816,0.791,0.811,(

4.3020)+(-0.0257)His+(0.0072)Phe+(-0.0900)Trp;0.817,0.841,0.831,0.828,0.831,0.819,0.794,0.821,(3.8098)+(0.0046)Ser+(-0.0006)His+(-0.1943)Met+(0.0445)Phe+(-0.0785)Trp;0.830,0.858,0.831,0.838,0.839,0.833,0.788,0.830,(4.2940)+(-0.0156)Cit+(-0.1464)Met+(0.0203)Ile+(-0.0305)Leu+(0.0622)Phe+(-0.0677)Trp;0.823,0.841,0.831,0.828,0.831,0.818,0.793,0.821,(3.8056)+(0.0045)Ser+(-0.1950)Met+(0.0445)Phe+(-0.0788)Trp;0.820,0.850,0.831,0.842,0.850,0.831,0.810,0.835,(4.9150)+(-0.0416)Asn+(0.0005)Thr+(-0.0162)Cit+(-0.1231)Met+(0.0424)Phe+(-0.0776)Trp;0.828,0.857,0.831,0.844,0.846,0.838,0.806,0.837,(4.3837)+(0.0085)Ser+(-0.0498)Asn+(-0.0070)Pro+(-0.1239)Met+(0.0493)Phe+(-0.0762)Trp;0.820,0.841,0.831,0.828,0.831,0.817,0.793,0.821,(3.8018)+(0.0045)Ser+(-0.1954)Met+(0.0001)Lys+(0.0444)Phe+(-0.0789)Trp;0.822,0.846,0.831,0.830,0.835,0.823,0.782,0.821,(3.9368)+(0.0059)Ser+(-0.0112)Arg+(-0.1754)Met+(0.0460)Phe+(-0.0756)Trp;0.821,0.849,0.831,0.842,0.841,0.821,0.841,0.838,(4.4750)+(0.0155)Ser+(-0.0076)Gly+(-0.0031)Thr+(-0.1713)Met+(0.0379)Phe+(-0.0813)Trp;0.835,0.863,0.831,0.852,0.845,0.856,0.836,0.850,(4.9570)+(-0.0325)Asn+(-0.0046)Ala+(-0.0121)Cit+(-0.0899)Met+(0.0399)Phe+(-0.0692)Trp;0.847,0.872,0.831,0.848,0.826,0.836,0.842,0.844,(0.1066)+(0.0142)Gln+(-0.0273)His+(-0.0135)Thr+(-0.2376)Met+(0.0514)Phe+(-0.0720)Trp;0.825,0.845,0.831,0.838,0.846,0.821,0.816,0.832,(5.4144)+(-0.0821)Asn+(-0.0252)Cit+(0.0280)Phe+(-0.0873)Trp;0.821,0.846,0.831,0.838,0.846,0.821,0.815,0.832,(5.4178)+(-0.0818)Asn+(-0.0252)Cit+(-0.0002)Lys+(0.0280)Phe+(-0.0872)Trp

[0351] ［実施例５で探索された線形判別式の一覧（その２）］

以下に、前述した実施例５で探索された線形判別式を列挙する。なお、式の前には、その式について得られた、「バリデーション有りでの膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値」、「バリデーション無しでの膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と健常群のＲＯＣ＿ＡＵＣの値」、

「膵臓癌群と他癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣの値」、および「膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣの値の平均値」を、さらに列挙する。

[0352] 0.841,0.858,0.864,0.850,0.855,0.851,0.818,0.846,(6.6327)+(0.0159)Ser+(-0.0688)Asn+(-0.0166)Cit+(-0.1442)Met+(0.0618)Phe+(-0.0996)Trp;0.857,0.877,0.864,0.864,0.858,0.859,0.844,0.859,(2.5401)+(0.0145)Gln+(-0.0299)His+(-0.0372)Cit+(-0.2512)Met+(0.0650)Phe+(-0.1008)Trp;0.867,0.883,0.863,0.868,0.858,0.855,0.860,0.864,(3.5162)+(-0.0924)Asn+(0.0149)Gln+(-0.0277)His+(-0.1837)Met+(0.0640)Phe+(-0.1019)Trp;0.858,0.873,0.863,0.856,0.843,0.848,0.843,0.852,(2.7828)+(0.0132)Gln+(-0.0366)His+(-0.2574)Met+(0.0629)Phe+(-0.0988)Trp;0.855,0.873,0.861,0.854,0.839,0.844,0.840,0.849,(2.8178)+(0.0132)Gln+(-0.0372)His+(-0.0084)Tyr+(-0.2479)Met+(0.0654)Phe+(-0.0958)Trp;0.856,0.873,0.861,0.856,0.842,0.847,0.844,0.851,(2.8477)+(-0.0011)Ser+(0.0133)Gln+(-0.0364)His+(-0.2551)Met+(0.0620)Phe+(-0.0989)Trp;0.838,0.856,0.860,0.847,0.848,0.846,0.821,0.843,(6.5646)+(0.0156)Ser+(-0.0681)Asn+(-0.0039)His+(-0.1509)Met+(0.0613)Phe+(-0.0989)Trp;0.858,0.874,0.859,0.857,0.844,0.853,0.845,0.854,(3.0539)+(0.0137)Gln+(-0.0339)His+(-0.2375)Met+(-0.0072)Lys+(0.0636)Phe+(-0.0971)Trp;0.851,0.867,0.859,0.847,0.829,0.856,0.827,0.845,(6.5527)+(0.0108)Ser+(-0.0243)Val+(-0.2233)Met+(0.0285)Ile+(0.0820)Phe+(-0.0762)Trp;0.842,0.858,0.859,0.853,0.853,0.842,0.849,0.851,(6.8506)+(0.0218)Ser+(-0.0580)Asn+(-0.0055)Gly+(-0.1580)Met+(0.0561)Phe+(-0.1003)Trp;0.838,0.854,0.859,0.846,0.849,0.842,0.819,0.841,(6.5378)+(0.0149)Ser+(-0.0710)Asn+(0.0015)Thr+(-0.1556)Met+(0.0612)Phe+(-0.1009)Trp;0.860,0.878,0.858,0.858,0.849,0.851,0.832,0.853,(2.8002)+(0.0151)Gln+(

-0.0362)His+(-0.0210)Arg+(-0.2272)Met+(0.0605)Phe+(-0.0951)Trp;0.840,0.856,0.858,0.847,0.848,0.846,0.819,0.842,(6.6275)+(0.0159)Ser+(-0.0679)Asn+(-0.1463)Met+(-0.0025)Lys+(0.0613)Phe+(-0.0995)Trp;0.839,0.856,0.857,0.846,0.848,0.843,0.814,0.841,(6.5993)+(0.0164)Ser+(-0.0669)Asn+(-0.0061)Arg+(-0.1444)Met+(0.0603)Phe+(-0.0990)Trp;0.828,0.847,0.857,0.839,0.846,0.837,0.803,0.833,(6.0634)+(0.0114)Ser+(-0.0078)His+(-0.0158)Cit+(-0.1960)Met+(0.0583)Phe+(-0.0978)Trp;0.840,0.854,0.857,0.845,0.847,0.842,0.820,0.841,(6.5342)+(0.0154)Ser+(-0.0700)Asn+(-0.1518)Met+(0.0607)Phe+(-0.1005)Trp;0.840,0.857,0.856,0.846,0.847,0.841,0.820,0.842,(6.5852)+(0.0160)Ser+(-0.0647)Asn+(-0.1539)Met+(-0.0093)Orn+(0.0641)Phe+(-0.0997)Trp;0.866,0.882,0.855,0.871,0.865,0.867,0.861,0.869,(4.4728)+(-0.1505)Asn+(0.0148)Gln+(-0.0207)His+(-0.0467)Cit+(0.0398)Phe+(-0.1103)Trp;0.834,0.854,0.855,0.841,0.842,0.837,0.813,0.836,(6.6129)+(0.0151)Ser+(-0.0715)Asn+(-0.0076)Tyr+(-0.1412)Met+(0.0626)Phe+(-0.0979)Trp;0.828,0.845,0.854,0.836,0.840,0.834,0.806,0.831,(6.0074)+(0.0112)Ser+(-0.0117)His+(-0.2017)Met+(0.0579)Phe+(-0.0970)Trp;0.864,0.882,0.854,0.860,0.843,0.838,0.855,0.855,(2.4700)+(0.0158)Gln+(-0.0382)His+(-0.2621)Met+(-0.0290)Orn+(0.0747)Phe+(-0.0977)Trp;0.825,0.845,0.854,0.836,0.839,0.834,0.806,0.831,(6.0072)+(0.0113)Ser+(-0.0116)His+(-0.0002)Thr+(-0.2011)Met+(0.0578)Phe+(-0.0969)Trp;0.832,0.851,0.854,0.843,0.847,0.844,0.815,0.839,(7.7895)+(0.0114)Ser+(-0.1007)Asn+(-0.0221)Cit+(-0.0059)Lys+(0.0400)Phe+(-0.1025)Trp;0.832,0.851,0.854,0.846,0.846,0.833,0.840,0.842,(6.4730)+(0.0196)Ser+(-0.0067)Gly+(-0.0067)His+(-0.2004)Met+(0.0524)Phe+(-0.0985)Trp;0.829,0.848,0.853,0.837,0.840,0.837,0.803,0.832,(6.1598)+(0.0121)Ser+(-0.0100)His+(-0.1917)Met+(-0.0038)Lys+(0.0588)Phe+(-0.0960)Trp;0.828,0.847,0.853,0.836,0.840,0.835,0.801,0.831,(6.1210)+(0.0127)Ser+(-0.0104)His+(-0.0083)Arg+(-0.1890)Met+(0.0575)Phe+(-0.0954)Trp;0.834,0.852,0.853,0.846,0.847,0.8

34,0.837,0.842,(6.4343)+(0.0190)Ser+(-0.0064)Gly+(-0.0098)Cit+(-0.1997)Met+(0.0521)Phe+(-0.1008)Trp;0.872,0.887,0.853,0.874,0.868,0.864,0.855,0.869,(3.3147)+(-0.1054)Asn+(0.0157)Gln+(-0.0455)Cit+(-0.1736)Met+(0.0639)Phe+(-0.1118)Trp;0.842,0.858,0.853,0.839,0.835,0.836,0.799,0.832,(6.0315)+(0.0091)Ser+(-0.1951)Met+(0.0271)Ile+(-0.0355)Leu+(0.0809)Phe+(-0.0915)Trp;0.830,0.848,0.852,0.839,0.846,0.840,0.798,0.833,(6.1744)+(0.0119)Ser+(-0.0177)Cit+(-0.1875)Met+(-0.0043)Lys+(0.0584)Phe+(-0.0991)Trp;0.857,0.871,0.852,0.850,0.841,0.850,0.815,0.844,(7.5269)+(0.0155)Ser+(-0.0710)Asn+(-0.0171)Val+(-0.1394)Met+(0.0851)Phe+(-0.0823)Trp;0.833,0.847,0.852,0.838,0.845,0.833,0.800,0.831,(5.9829)+(0.0107)Ser+(-0.0181)Cit+(-0.1997)Met+(0.0571)Phe+(-0.1010)Trp;0.829,0.847,0.852,0.838,0.846,0.833,0.799,0.831,(5.9827)+(0.0107)Ser+(0.0001)Thr+(-0.0181)Cit+(-0.2000)Met+(0.0571)Phe+(-0.1010)Trp;0.846,0.864,0.852,0.846,0.831,0.851,0.825,0.843,(7.3153)+(0.0069)Thr+(-0.0250)Val+(-0.2210)Met+(0.0290)Ile+(0.0782)Phe+(-0.0768)Trp;0.830,0.849,0.852,0.838,0.841,0.831,0.808,0.832,(6.1249)+(0.0124)Ser+(-0.0104)His+(-0.1996)Met+(-0.0122)Orn+(0.0627)Phe+(-0.0963)Trp;0.829,0.848,0.852,0.840,0.843,0.837,0.818,0.836,(7.6702)+(0.0097)Ser+(-0.1087)Asn+(-0.0011)His+(-0.0228)Cit+(0.0364)Phe+(-0.1051)Trp;0.822,0.844,0.852,0.834,0.837,0.830,0.803,0.828,(6.0498)+(0.0110)Ser+(-0.0120)His+(-0.0046)Tyr+(-0.1959)Met+(0.0591)Phe+(-0.0953)Trp;0.854,0.874,0.851,0.855,0.838,0.847,0.846,0.851,(2.7951)+(0.0138)Gln+(-0.0346)His+(-0.0069)Thr+(-0.2353)Met+(0.0586)Phe+(-0.0981)Trp;0.826,0.843,0.851,0.837,0.836,0.851,0.813,0.836,(4.0419)+(0.0093)Gln+(-0.0422)His+(-0.0437)Cit+(0.0123)Phe+(-0.1087)Trp;0.833,0.848,0.851,0.840,0.843,0.837,0.817,0.836,(7.6646)+(0.0096)Ser+(-0.1092)Asn+(-0.0231)Cit+(0.0363)Phe+(-0.1055)Trp;0.829,0.848,0.851,0.837,0.845,0.833,0.795,0.830,(6.0430)+(0.0117)Ser+(-0.0135)Cit+(-0.0058)Arg+(-0.1926)Met+(0.0566)Phe+(-0.0997)Trp;0.828,0.848,

0.851,0.836,0.843,0.831,0.796,0.829,(6.0141)+(0.0105)Ser+(-0.0180)Cit+(-0.0037)Tyr+(-0.1951)Met+(0.0580)Phe+(-0.0997)Trp;0.854,0.868,0.850,0.856,0.838,0.877,0.849,0.858,(7.2167)+(0.0136)Ser+(-0.0539)Asn+(-0.0075)Ala+(-0.1121)Met+(0.0565)Phe+(-0.0877)Trp;0.864,0.880,0.850,0.854,0.839,0.840,0.826,0.846,(3.1852)+(0.0124)Gln+(-0.0243)His+(-0.2406)Met+(-0.0196)Leu+(0.0799)Phe+(-0.0976)Trp;0.856,0.871,0.850,0.858,0.847,0.845,0.857,0.855,(4.8183)+(-0.1481)Asn+(0.0129)Gln+(-0.0298)His+(0.0351)Phe+(-0.1080)Trp;0.862,0.878,0.850,0.860,0.850,0.836,0.850,0.853,(3.4141)+(0.0034)Ser+(-0.1051)Asn+(0.0133)Gln+(-0.1917)Met+(0.0626)Phe+(-0.1123)Trp;0.835,0.853,0.849,0.845,0.844,0.834,0.833,0.841,(6.5724)+(0.0202)Ser+(-0.0068)Gly+(-0.1935)Met+(-0.0038)Lys+(0.0522)Phe+(-0.0997)Trp;0.833,0.852,0.849,0.845,0.844,0.830,0.837,0.841,(6.4109)+(0.0190)Ser+(-0.0070)Gly+(0.0011)Thr+(-0.2079)Met+(0.0513)Phe+(-0.1017)Trp;0.822,0.834,0.849,0.825,0.816,0.833,0.816,0.824,(4.3714)+(0.0076)Gln+(-0.0504)His+(0.0082)Phe+(-0.1065)Trp;0.858,0.875,0.849,0.851,0.827,0.839,0.846,0.847,(4.7114)+(-0.1427)Asn+(0.0136)Gln+(-0.0313)His+(-0.0327)Tyr+(0.0516)Phe+(-0.0951)Trp;0.834,0.852,0.848,0.845,0.845,0.831,0.832,0.840,(6.4904)+(0.0202)Ser+(-0.0066)Gly+(-0.0067)Arg+(-0.1937)Met+(0.0510)Phe+(-0.0996)Trp;0.837,0.851,0.848,0.844,0.844,0.829,0.837,0.840,(6.4094)+(0.0193)Ser+(-0.0069)Gly+(-0.2044)Met+(0.0510)Phe+(-0.1014)Trp;0.831,0.848,0.848,0.840,0.843,0.835,0.816,0.836,(7.6782)+(0.0097)Ser+(-0.1082)Asn+(-0.0210)Cit+(-0.0027)Orn+(0.0369)Phe+(-0.1054)Trp;0.830,0.849,0.848,0.833,0.828,0.830,0.800,0.827,(7.6726)+(0.0102)Ser+(-0.1049)Asn+(-0.0215)Cit+(-0.0224)Tyr+(0.0475)Phe+(-0.0967)Trp;0.832,0.850,0.848,0.840,0.843,0.834,0.809,0.834,(7.6642)+(0.0108)Ser+(-0.1044)Asn+(-0.0174)Cit+(-0.0070)Arg+(0.0365)Phe+(-0.1038)Trp;0.849,0.864,0.848,0.845,0.844,0.839,0.802,0.837,(7.0742)+(0.0143)Ser+(-0.0698)Asn+(-0.1241)Met+(-0.0229)Leu+(0.0819)Phe+(-0.0937)Trp;0.8

58,0.876,0.848,0.862,0.850,0.853,0.855,0.859,(4.9806)+(-0.1348)Asn+(0.0137)Gln+(-0.0266)His+(-0.0098)Lys+(0.0393)Phe+(-0.1048)Trp;0.831,0.851,0.848,0.829,0.810,0.842,0.800,0.825,(3.9499)+(0.0103)Gln+(-0.0433)His+(-0.0418)Cit+(-0.0382)Tyr+(0.0326)Phe+(-0.0935)Trp;0.873,0.887,0.847,0.858,0.828,0.854,0.849,0.854,(3.3435)+(0.0120)Gln+(-0.0255)Val+(-0.2885)Met+(0.0255)Ile+(0.0864)Phe+(-0.0863)Trp;0.831,0.849,0.847,0.840,0.840,0.837,0.819,0.836,(7.5743)+(0.0115)Ser+(-0.1038)Asn+(-0.0042)Thr+(-0.0212)Cit+(0.0363)Phe+(-0.1040)Trp;0.831,0.848,0.847,0.845,0.848,0.832,0.842,0.842,(7.8998)+(0.0136)Ser+(-0.1031)Asn+(-0.0038)Gly+(-0.0187)Cit+(0.0317)Phe+(-0.1058)Trp;0.828,0.847,0.846,0.827,0.817,0.817,0.802,0.821,(7.6595)+(0.0096)Ser+(-0.1051)Asn+(-0.0073)His+(-0.0238)Tyr+(0.0464)Phe+(-0.0946)Trp;0.856,0.872,0.846,0.853,0.849,0.837,0.822,0.845,(2.4879)+(0.0131)Gln+(-0.0435)Cit+(-0.2623)Met+(0.0609)Phe+(-0.1121)Trp;0.838,0.860,0.846,0.848,0.840,0.862,0.819,0.845,(4.3920)+(0.0116)Gln+(-0.0329)His+(-0.0451)Cit+(-0.0175)Lys+(0.0243)Phe+(-0.1033)Trp;0.835,0.852,0.846,0.845,0.855,0.831,0.813,0.838,(7.6871)+(-0.0588)Asn+(0.0069)Thr+(-0.0175)Cit+(-0.1369)Met+(0.0528)Phe+(-0.1008)Trp;0.832,0.847,0.846,0.834,0.836,0.829,0.797,0.827,(6.0647)+(0.0113)Ser+(-0.1961)Met+(-0.0045)Lys+(0.0571)Phe+(-0.1000)Trp;0.828,0.847,0.846,0.834,0.836,0.829,0.797,0.827,(6.0645)+(0.0113)Ser+(-0.0001)Thr+(-0.1960)Met+(-0.0045)Lys+(0.0571)Phe+(-0.1000)Trp;0.830,0.849,0.846,0.837,0.842,0.828,0.800,0.830,(6.0387)+(0.0115)Ser+(-0.0099)Cit+(-0.2015)Met+(-0.0101)Orn+(0.0606)Phe+(-0.1004)Trp;0.863,0.880,0.846,0.862,0.852,0.851,0.841,0.856,(4.5737)+(-0.1307)Asn+(0.0152)Gln+(-0.0300)His+(-0.0239)Arg+(0.0364)Phe+(-0.1027)Trp;0.848,0.864,0.846,0.844,0.827,0.844,0.827,0.840,(7.4275)+(-0.0203)Val+(-0.1885)Met+(0.0335)Ile+(-0.0100)Leu+(0.0753)Phe+(-0.0765)Trp;0.852,0.870,0.845,0.851,0.833,0.849,0.838,0.848,(8.4985)+(-0.0543)Asn+(-0.0239)Val+(-0.1338)Met+(0.0

268)Ile+(0.0730)Phe+(-0.0742)Trp;0.828,0.847,0.845,0.833,0.837,0.831,0.792,0.827,(6.1009)+(0.0123)Ser+(-0.0073)Arg+(-0.1892)Met+(-0.0028)Lys+(0.0564)Phe+(-0.0989)Trp;0.834,0.854,0.845,0.845,0.843,0.828,0.836,0.840,(6.4699)+(0.0196)Ser+(-0.0064)Gly+(-0.2025)Met+(-0.0097)Orn+(0.0553)Phe+(-0.1005)Trp;0.848,0.865,0.845,0.852,0.836,0.875,0.836,0.853,(6.8606)+(0.0100)Ser+(-0.0080)Ala+(-0.0146)Cit+(-0.1446)Met+(0.0536)Phe+(-0.0870)Trp;0.827,0.847,0.845,0.833,0.838,0.828,0.791,0.826,(6.0008)+(0.0117)Ser+(0.0005)Thr+(-0.0090)Arg+(-0.1960)Met+(0.0557)Phe+(-0.0998)Trp;0.827,0.848,0.845,0.836,0.838,0.832,0.805,0.831,(7.6599)+(0.0112)Ser+(-0.1015)Asn+(-0.0057)His+(-0.0108)Arg+(0.0356)Phe+(-0.1015)Trp;0.832,0.844,0.845,0.832,0.835,0.824,0.798,0.825,(5.8628)+(0.0101)Ser+(-0.2090)Met+(0.0557)Phe+(-0.1020)Trp;0.832,0.847,0.845,0.833,0.837,0.828,0.792,0.826,(6.0006)+(0.0118)Ser+(-0.0088)Arg+(-0.1946)Met+(0.0555)Phe+(-0.0997)Trp;0.862,0.878,0.844,0.862,0.845,0.842,0.867,0.858,(4.5811)+(-0.1427)Asn+(
0.0147)Gln+(-0.0321)His+(-0.0226)Orn+(0.0425)Phe+(-0.1072)Trp;0.865,0.879,0.844,0.859,0.849,0.834,0.849,0.853,(3.5861)+(-0.1025)Asn+(0.0136)Gln+(-0.1869)Met+(0.0599)Phe+(-0.1124)Trp;0.854,0.872,0.844,0.858,0.847,0.843,0.857,0.855,(4.9507)+(-0.0032)Ser+(-0.1444)Asn+(0.0132)Gln+(-0.0296)His+(0.0332)Phe+(-0.1080)Trp;0.826,0.847,0.844,0.837,0.837,0.834,0.814,0.833,(7.7612)+(0.0107)Ser+(-0.1025)Asn+(-0.0046)His+(-0.0061)Lys+(0.0376)Phe+(-0.1021)Trp;0.830,0.845,0.844,0.835,0.836,0.825,0.818,0.831,(7.6449)+(0.0090)Ser+(-0.1101)Asn+(-0.0071)His+(0.0341)Phe+(-0.1042)Trp;0.852,0.873,0.844,0.852,0.846,0.835,0.822,0.844,(2.5096)+(0.0130)Gln+(-0.0435)Cit+(-0.0052)Tyr+(-0.2566)Met+(0.0624)Phe+(-0.1103)Trp;0.828,0.848,0.844,0.834,0.839,0.823,0.796,0.826,(6.0007)+(0.0108)Ser+(0.0017)Thr+(-0.2113)Met+(-0.0133)Orn+(0.0618)Phe+(-0.1012)Trp;0.832,0.844,0.844,0.835,0.832,0.854,0.807,0.834,(4.3936)+(0.0093

)Gln+(-0.0402)His+(-0.0427)Cit+(-0.1045)Trp;0.829,0.850,0.844,0.840,0.837,0.822,0.831,0.835,(6.5152)+(0.0193)Ser+(-0.0073)Gly+(-0.0096)Tyr+(-0.1925)Met+(0.0531)Phe+(-0.0981)Trp;0.853,0.869,0.844,0.848,0.842,0.838,0.810,0.840,(8.5266)+(-0.0643)Asn+(0.0095)Thr+(-0.0179)Val+(-0.1409)Met+(0.0792)Phe+(-0.0835)Trp;0.828,0.846,0.844,0.832,0.834,0.829,0.793,0.826,(6.1049)+(0.0111)Ser+(-0.0044)Tyr+(-0.1906)Met+(-0.0046)Lys+(0.0582)Phe+(-0.0985)Trp;0.824,0.846,0.844,0.831,0.835,0.825,0.789,0.824,(6.0241)+(0.0117)Ser+(-0.0087)Arg+(-0.0030)Tyr+(-0.1911)Met+(0.0562)Phe+(-0.0987)Trp;0.831,0.850,0.843,0.835,0.839,0.827,0.794,0.828,(6.0950)+(0.0127)Ser+(-0.0069)Arg+(-0.1950)Met+(-0.0114)Orn+(0.0602)Phe+(-0.0991)Trp;0.825,0.841,0.843,0.816,0.794,0.823,0.793,0.813,(4.2614)+(0.0087)Gln+(-0.0512)His+(-0.0397)Tyr+(0.0295)Phe+(-0.0908)Trp;0.824,0.834,0.843,0.824,0.813,0.837,0.808,0.823,(4.6044)+(0.0076)Gln+(-0.0489)His+(-0.1037)Trp;0.831,0.850,0.843,0.835,0.837,0.828,0.800,0.829,(6.1095)+(0.0120)Ser+(-0.1986)Met+(-0.0116)Orn+(-0.0027)Lys+(0.0613)Phe+(-0.0997)Trp;0.848,0.865,0.843,0.843,0.824,0.843,0.828,0.840,(8.5066)+(0.0090)Ser+(-0.1145)Asn+(-0.0209)Val+(0.0118)Ile+(0.0597)Phe+(-0.0848)Trp;0.825,0.843,0.843,0.830,0.833,0.820,0.794,0.823,(5.8951)+(0.0099)Ser+(-0.0038)Tyr+(-0.2043)Met+(0.0567)Phe+(-0.1007)Trp;0.858,0.876,0.843,0.858,0.853,0.849,0.829,0.852,(2.8311)+(0.0139)Gln+(-0.0442)Cit+(-0.2353)Met+(-0.0092)Lys+(0.0623)Phe+(-0.1087)Trp;0.828,0.844,0.843,0.831,0.833,0.823,0.797,0.824,(5.8677)+(0.0106)Ser+(-0.0013)Thr+(-0.2051)Met+(0.0553)Phe+(-0.1016)Trp;0.888,0.899,0.843,0.872,0.850,0.857,0.855,0.865,(4.4024)+(-0.1075)Asn+(0.0147)Gln+(-0.0196)Val+(-0.1775)Met+(0.0888)Phe+(-0.0925)Trp;0.848,0.865,0.843,0.854,0.837,0.866,0.851,0.855,(7.0521)+(0.0156)Ser+(-0.0046)Gly+(-0.0074)Ala+(-0.1536)Met+(0.0496)Phe+(-0.0886)Trp

[0353] ［実施例６で探索されたロジスティック回帰式の一覧（その１）］

以下に、前述した実施例６で探索されたロジスティック回帰式を列挙する。なお、式の前には、その式について得られた、「バリデーション有りでの膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値」、「バリデーション無しでの膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と健常群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と他癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣの値」、および「膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣの値の平均値」を、さらに列挙する。

[0354] 0.851,0.874,0.831,0.855,0.845,0.857,0.841,0.854,(5.6692)+(-0.0719)Asn+(0.0072)Gln+(-0.0715)Cit+(0.0674)Tyr+(-0.1878)Met+(-0.1103)Trp;0.850,0.871,0.830,0.836,0.811,0.833,0.834,0.837,(7.7617)+(-0.0729)Asn+(-0.0057)Gly+(-0.0829)Cit+(0.0409)Tyr+(0.0296)Orn+(-0.1265)Trp;0.850,0.873,0.814,0.859,0.857,0.861,0.832,0.856,(6.1359)+(-0.1088)Asn+(0.0071)Gln+(-0.0672)Cit+(-0.0111)Pro+(0.0505)Tyr+(-0.1271)Trp;0.849,0.870,0.846,0.846,0.832,0.854,0.826,0.846,(5.7474)+(-0.1127)Asn+(0.0047)Gln+(-0.0872)Cit+(0.0428)Tyr+(0.0250)Orn+(-0.1255)Trp;0.849,0.867,0.838,0.831,0.809,0.840,0.808,0.831,(7.0356)+(-0.0849)Asn+(-0.0858)Cit+(0.0454)Tyr+(0.0272)Orn+(-0.1272)Trp;0.849,0.870,0.835,0.836,0.815,0.852,0.811,0.837,(7.1656)+(-0.0396)Asn+(-0.0827)Cit+(0.0644)Tyr+(-0.1539)Met+(0.0221)Orn+(-0.1154)Trp;0.849,0.871,0.816,0.851,0.844,0.858,0.824,0.849,(5.8529)+(0.0054)Gln+(-0.0752)Cit+(-0.0083)Pro+(0.0729)Tyr+(-0.2227)Met+(-0.1204)Trp;0.848,0.868,0.825,0.837,0.821,0.852,0.807,0.837,(7.1319)+(-0.0848)Cit+(-0.0074)Pro+(0.0688)Tyr+(-0.1769)Met+(0.0215)Orn+(-0.1210)Trp;0.848,0.868,0.841,0.839,0.818,0.853,0.822,0.840,(7.0943)+(-0.0793)Asn+(-0.0024)Ala+(-0.0860)Cit+(0.0480)Tyr+(0.0271)Orn+(-0.1208)Trp;0.848,0.869,0.826,0.836,0.819,0.844,0.805,0.835,(7.5534)+(-

0.0758)Asn+(-0.0856)Cit+(-0.0091)Pro+(0.0501)Tyr+(0.0291)Orn+(-0.1282)Trp;0.848,0.868,0.817,0.839,0.827,0.848,0.801,0.836,(7.4652)+(0.0076)Thr+(-0.0677)Cit+(-0.0072)Pro+(0.0744)Tyr+(-0.2094)Met+(-0.1239)Trp;0.847,0.869,0.839,0.832,0.811,0.841,0.809,0.832,(7.1085)+(-0.0806)Asn+(-0.0868)Cit+(0.0455)Tyr+(0.0281)Orn+(-0.0020)Lys+(-0.1251)Trp;0.847,0.868,0.803,0.842,0.829,0.839,0.827,0.841,(8.0010)+(-0.0032)Gly+(-0.0628)Cit+(-0.0063)Pro+(0.0706)Tyr+(-0.1728)Met+(-0.1209)Trp;0.847,0.871,0.814,0.857,0.846,0.838,0.869,0.856,(6.3888)+(-0.1064)Asn+(-0.0072)Gly+(0.0069)Gln+(-0.0612)Cit+(0.0393)Tyr+(-0.1215)Trp;0.847,0.868,0.825,0.840,0.824,0.843,0.820,0.839,(7.1977)+(-0.0275)Asn+(-0.0640)Cit+(0.0662)Tyr+(-0.1707)Met+(0.0104)Phe+(-0.1193)Trp;0.847,0.868,0.826,0.837,0.820,0.847,0.812,0.837,(7.4013)+(-0.0324)Asn+(0.0064)Thr+(-0.0658)Cit+(0.0704)Tyr+(-0.1895)Met+(-0.1172)Trp;0.847,0.866,0.817,0.837,0.821,0.842,0.816,0.836,(7.5014)+(-0.0300)Asn+(-0.0653)Cit+(0.0703)Tyr+(-0.1702)Met+(-0.1157)Trp;0.847,0.867,0.837,0.831,0.810,0.839,0.807,0.831,(7.0571)+(-0.0846)Asn+(-0.0859)Cit+(0.0455)Tyr+(0.0275)Orn+(-0.0010)Ile+(-0.1269)Trp;0.846,0.866,0.809,0.838,0.826,0.844,0.809,0.836,(7.5613)+(-0.0672)Cit+(-0.0065)Pro+(0.0737)Tyr+(-0.1847)Met+(-0.1211)Trp;0.846,0.867,0.827,0.849,0.839,0.849,0.836,0.848,(5.8545)+(-0.1092)Asn+(0.0053)Gln+(-0.0674)Cit+(0.0456)Tyr+(-0.1244)Trp;0.846,0.866,0.824,0.837,0.822,0.841,0.813,0.835,(6.7689)+(-0.0672)Cit+(0.0662)Tyr+(-0.1984)Met+(0.0116)Phe+(-0.1210)Trp;0.846,0.870,0.818,0.850,0.838,0.842,0.846,0.849,(5.9813)+(-0.0053)Gly+(0.0055)Gln+(-0.0705)Cit+(0.0640)Tyr+(-0.2246)Met+(-0.1145)Trp;0.846,0.867,0.811,0.836,0.821,0.839,0.808,0.834,(7.3261)+(-0.0705)Cit+(-0.0066)Pro+(0.0734)Tyr+(0.0041)Val+(-0.1901)Met+(-0.1275)Trp;0.846,0.868,0.832,0.837,0.821,0.845,0.811,0.836,(6.6000)+(0.0065)Thr+(-0.0678)Cit+(0.0657)Tyr+(-0.2208)Met+(0.0132)Phe+(-0.1230)Trp;0.846,0.868,0.810,0.841,0.829,0.845,0.814,0.83

9,(7.9033)+(-0.0256)Asn+(-0.0642)Cit+(-0.0061)Pro+(0.0731)Tyr+(-0.159
3)Met+(-0.1197)Trp;0.846,0.869,0.835,0.830,0.810,0.836,0.799,0.828,(7
.1058)+(-0.0739)Asn+(-0.0798)Cit+(-0.0100)Arg+(0.0471)Tyr+(0.0272)Orn
+(-0.1256)Trp;0.846,0.867,0.838,0.831,0.809,0.840,0.808,0.831,(7.0362
)+(-0.0849)Asn+(-0.0858)Cit+(0.0454)Tyr+(0.0273)Orn+(-0.0000)Leu+(-0.
1272)Trp;0.846,0.867,0.839,0.831,0.810,0.840,0.808,0.831,(7.0210)+(-0
.0847)Asn+(-0.0857)Cit+(0.0452)Tyr+(0.0272)Orn+(0.0006)Phe+(-0.1275)T
rp;0.846,0.869,0.816,0.842,0.830,0.845,0.814,0.839,(7.2685)+(-0.0656)
Cit+(-0.0062)Pro+(0.0694)Tyr+(-0.1834)Met+(0.0102)Phe+(-0.1240)Trp;0.
846,0.868,0.838,0.848,0.838,0.853,0.829,0.847,(4.8590)+(0.0051)Gln+(-
0.0738)Cit+(0.0627)Tyr+(-0.2409)Met+(0.0172)Phe+(-0.1200)Trp;0.846,0.
869,0.826,0.837,0.817,0.842,0.823,0.838,(7.2825)+(-0.0044)Gly+(-0.082
5)Cit+(0.0609)Tyr+(-0.1763)Met+(0.0222)Orn+(-0.1180)Trp;0.846,0.868,0
.818,0.839,0.821,0.838,0.825,0.838,(7.5424)+(-0.0041)Gly+(0.0071)Thr+
(-0.0647)Cit+(0.0670)Tyr+(-0.2093)Met+(-0.1194)Trp;0.846,0.865,0.830,
0.832,0.813,0.847,0.804,0.832,(6.6662)+(-0.0848)Cit+(0.0660)Tyr+(-0.1
954)Met+(0.0189)Orn+(-0.1170)Trp;0.846,0.866,0.818,0.839,0.823,0.845,
0.819,0.838,(7.5068)+(-0.0280)Asn+(-0.0009)Ala+(-0.0654)Cit+(0.0711)T
yr+(-0.1674)Met+(-0.1139)Trp;0.846,0.868,0.817,0.849,0.841,0.842,0.83
5,0.846,(6.1483)+(-0.0060)Ser+(-0.1031)Asn+(0.0058)Gln+(-0.0687)Cit+(
0.0451)Tyr+(-0.1261)Trp;0.846,0.867,0.836,0.828,0.805,0.835,0.805,0.8
28,(6.9378)+(-0.0858)Asn+(-0.0874)Cit+(0.0446)Tyr+(0.0024)Val+(0.0267
)Orn+(-0.1316)Trp;0.846,0.866,0.834,0.830,0.809,0.839,0.807,0.830,(7.
1787)+(-0.0020)Ser+(-0.0817)Asn+(-0.0862)Cit+(0.0453)Tyr+(0.0274)Orn+
(-0.1279)Trp;0.845,0.862,0.817,0.833,0.817,0.841,0.806,0.832,(7.0767)
+(-0.0690)Cit+(0.0710)Tyr+(-0.2009)Met+(-0.1171)Trp;0.845,0.868,0.829
,0.849,0.840,0.847,0.838,0.848,(5.7352)+(-0.1079)Asn+(0.0053)Gln+(-0.
0671)Cit+(0.0445)Tyr+(0.0039)Phe+(-0.1263)Trp;0.845,0.867,0.833,0.837

,0.818,0.854,0.813,0.838,(6.7229)+(-0.0016)Ala+(-0.0851)Cit+(0.0669)Tyr+(-0.1865)Met+(0.0196)Orn+(-0.1135)Trp;0.845,0.863,0.819,0.836,0.821,0.846,0.813,0.836,(7.1306)+(-0.0013)Ala+(-0.0689)Cit+(0.0719)Tyr+(-0.1938)Met+(-0.1143)Trp;0.845,0.864,0.822,0.833,0.816,0.845,0.803,0.832,(6.9630)+(0.0056)Thr+(-0.0697)Cit+(0.0711)Tyr+(-0.2203)Met+(-0.1186)Trp;0.845,0.867,0.817,0.840,0.824,0.833,0.831,0.839,(7.2884)+(-0.0032)Gly+(-0.0631)Cit+(0.0635)Tyr+(-0.1857)Met+(0.0105)Phe+(-0.1213)Trp;0.845,0.865,0.825,0.843,0.831,0.851,0.821,0.842,(5.5455)+(0.0045)Gln+(-0.0759)Cit+(0.0697)Tyr+(-0.2378)Met+(-0.1148)Trp;0.845,0.867,0.823,0.838,0.820,0.848,0.817,0.838,(7.2506)+(0.0034)Ser+(-0.0336)Asn+(-0.0652)Cit+(0.0711)Tyr+(-0.1743)Met+(-0.1147)Trp;0.845,0.864,0.810,0.837,0.820,0.833,0.828,0.836,(7.5972)+(-0.0035)Gly+(-0.0645)Cit+(0.0676)Tyr+(-0.1872)Met+(-0.1176)Trp;0.845,0.866,0.833,0.831,0.809,0.839,0.810,0.831,(7.1163)+(-0.0798)Asn+(-0.0043)Thr+(-0.0870)Cit+(0.0468)Tyr+(0.0282)Orn+(-0.1251)Trp;0.845,0.867,0.825,0.840,0.825,0.847,0.820,0.840,(6.8272)+(-0.0012)Ala+(-0.0671)Cit+(0.0672)Tyr+(-0.1919)Met+(0.0114)Phe+(-0.1183)Trp;0.845,0.866,0.821,0.842,0.825,0.841,0.836,0.842,(7.1813)+(0.0076)Ser+(-0.0052)Gly+(-0.0629)Cit+(0.0674)Tyr+(-0.1982)Met+(-0.1156)Trp;0.845,0.866,0.819,0.837,0.819,0.838,0.820,0.836,(7.2585)+(-0.0418)Asn+(-0.0659)Cit+(0.0720)Tyr+(-0.1918)Met+(0.0078)Lys+(-0.1212)Trp;0.844,0.866,0.809,0.837,0.824,0.839,0.808,0.834,(7.2430)+(-0.0686)Cit+(-0.0070)Pro+(0.0757)Tyr+(-0.2111)Met+(0.0065)Lys+(-0.1265)Trp;0.844,0.866,0.810,0.840,0.823,0.837,0.833,0.840,(7.8866)+(-0.0257)Asn+(-0.0030)Gly+(-0.0617)Cit+(0.0674)Tyr+(-0.1627)Met+(-0.1162)Trp;0.844,0.866,0.809,0.839,0.826,0.846,0.811,0.838,(7.5711)+(-0.0005)Ala+(-0.0672)Cit+(-0.0063)Pro+(0.0741)Tyr+(-0.1825)Met+(-0.1199)Trp;0.844,0.867,0.827,0.846,0.834,0.842,0.833,0.844,(5.7895)+(-0.1098)Asn+(0.0052)Gln+(-0.0695)Cit+(0.0448)Tyr+(0.0024)Val+(-0.1287)Trp;0.844,0.8

65,0.817,0.833,0.814,0.837,0.814,0.832,(7.2967)+(-0.0308)Asn+(-0.0689)Cit+(0.0699)Tyr+(0.0041)Val+(-0.1751)Met+(-0.1225)Trp;0.844,0.865,0.832,0.832,0.814,0.848,0.801,0.832,(6.7648)+(-0.0807)Cit+(-0.0054)Arg+(0.0662)Tyr+(-0.1854)Met+(0.0192)Orn+(-0.1170)Trp;0.844,0.865,0.813,0.835,0.819,0.839,0.814,0.834,(7.2574)+(-0.0687)Cit+(-0.0065)Pro+(0.0745)Tyr+(-0.2011)Met+(0.0089)Leu+(-0.1272)Trp;0.844,0.866,0.835,0.832,0.812,0.850,0.802,0.833,(6.6142)+(0.0042)Thr+(-0.0840)Cit+(0.0664)Tyr+(-0.2108)Met+(0.0176)Orn+(-0.1180)Trp;0.844,0.866,0.828,0.838,0.824,0.845,0.814,0.837,(6.5164)+(0.0026)Ser+(-0.0673)Cit+(0.0664)Tyr+(-0.2045)Met+(0.0125)Phe+(-0.1204)Trp;0.844,0.865,0.823,0.836,0.820,0.848,0.812,0.836,(7.0140)+(0.0055)Thr+(-0.0013)Ala+(-0.0695)Cit+(0.0720)Tyr+(-0.2132)Met+(-0.1160)Trp;0.844,0.865,0.813,0.838,0.827,0.846,0.807,0.836,(7.3279)+(0.0029)Ser+(-0.0675)Cit+(-0.0067)Pro+(0.0746)Tyr+(-0.1908)Met+(-0.1206)Trp;0.844,0.867,0.827,0.848,0.837,0.856,0.832,0.848,(5.5554)+(0.0047)Gln+(-0.0018)Ala+(-0.0757)Cit+(0.0709)Tyr+(-0.2296)Met+(-0.1111)Trp;0.844,0.866,0.835,0.835,0.817,0.850,0.809,0.836,(6.4516)+(-0.0822)Cit+(0.0626)Tyr+(-0.1933)Met+(0.0176)Orn+(0.0090)Phe+(-0.1202)Trp;0.844,0.868,0.827,0.851,0.842,0.853,0.837,0.850,(5.8878)+(-0.1052)Asn+(0.0056)Gln+(-0.0679)Cit+(0.0458)Tyr+(-0.0030)Lys+(-0.1214)Trp;0.844,0.868,0.830,0.857,0.850,0.863,0.851,0.858,(5.8704)+(-0.1056)Asn+(0.0055)Gln+(-0.0027)Ala+(-0.0676)Cit+(0.0486)Tyr+(-0.1173)Trp;0.844,0.864,0.824,0.833,0.816,0.834,0.812,0.831,(6.5818)+(-0.0706)Cit+(0.0661)Tyr+(0.0037)Val+(-0.2037)Met+(0.0110)Phe+(-0.1270)Trp;0.843,0.866,0.811,0.838,0.827,0.844,0.807,0.836,(7.6240)+(-0.0643)Cit+(-0.0036)Arg+(-0.0064)Pro+(0.0739)Tyr+(-0.1790)Met+(-0.1208)Trp;0.843,0.866,0.832,0.840,0.826,0.854,0.813,0.840,(5.4494)+(0.0038)Gln+(-0.0864)Cit+(0.0660)Tyr+(-0.2286)Met+(0.0142)Orn+(-0.1149)Trp;0.843,0.867,0.830,0.849,0.838,0.848,0.838,0.848,(5.7917)+(-0.1101)Asn+(0.0052)Gln+(

-0.0676)Cit+(0.0452)Tyr+(0.0033)Ile+(-0.1253)Trp;0.843,0.867,0.826,0.849,0.840,0.849,0.836,0.848,(5.8645)+(-0.1092)Asn+(0.0053)Gln+(-0.0673)Cit+(0.0456)Tyr+(-0.0004)Leu+(-0.1240)Trp;0.843,0.864,0.831,0.829,0.809,0.843,0.801,0.829,(6.5154)+(-0.0867)Cit+(0.0658)Tyr+(0.0031)Val+(-0.1992)Met+(0.0178)Orn+(-0.1221)Trp;0.843,0.865,0.811,0.840,0.824,0.838,0.831,0.839,(7.6202)+(-0.0033)Gly+(-0.0011)Ala+(-0.0645)Cit+(0.0685)Tyr+(-0.1815)Met+(-0.1151)Trp;0.843,0.865,0.831,0.855,0.852,0.845,0.849,0.853,(6.4883)+(-0.0903)Asn+(-0.0089)Gly+(0.0069)Gln+(-0.0800)Cit+(0.0290)Orn+(-0.1034)Trp;0.843,0.863,0.818,0.833,0.817,0.843,0.806,0.832,(6.9632)+(0.0013)Ser+(-0.0691)Cit+(0.0713)Tyr+(-0.2039)Met+(-0.1167)Trp;0.843,0.863,0.816,0.829,0.811,0.833,0.806,0.828,(6.8562)+(-0.0726)Cit+(0.0706)Tyr+(0.0040)Val+(-0.2062)Met+(-0.1236)Trp;0.843,0.865,0.826,0.840,0.826,0.846,0.817,0.839,(5.4601)+(0.0042)Gln+(-0.0781)Cit+(0.0694)Tyr+(0.0027)Val+(-0.2395)Met+(-0.1190)Trp;0.843,0.859,0.813,0.831,0.815,0.830,0.814,0.830,(7.3478)+(-0.0782)Asn+(-0.0635)Cit+(0.0492)Tyr+(-0.1269)Trp;0.843,0.864,0.820,0.835,0.816,0.841,0.818,0.835,(6.8704)+(-0.0023)Ala+(-0.0735)Cit+(0.0723)Tyr+(0.0053)Val+(-0.1964)Met+(-0.1211)Trp;0.843,0.866,0.816,0.837,0.821,0.842,0.816,0.836,(7.5175)+(-0.0283)Asn+(-0.063

8)Cit+(-0.0021)Arg+(0.0705)Tyr+(-0.1682)Met+(-0.1157)Trp;0.843,0.868,0.819,0.847,0.841,0.838,0.825,0.843,(5.7314)+(-0.1002)Asn+(0.0063)Gln+(-0.0577)Cit+(-0.0159)Arg+(0.0480)Tyr+(-0.1216)Trp;0.843,0.865,0.831,0.832,0.813,0.847,0.804,0.832,(6.6496)+(0.0002)Ser+(-0.0848)Cit+(0.0660)Tyr+(-0.1959)Met+(0.0189)Orn+(-0.1169)Trp;0.843,0.864,0.822,0.833,0.816,0.845,0.803,0.832,(6.9687)+(-0.0001)Ser+(0.0057)Thr+(-0.0697)Cit+(0.0711)Tyr+(-0.2202)Met+(-0.1186)Trp;0.842,0.864,0.820,0.837,0.821,0.847,0.814,0.837,(7.0379)+(0.0010)Ser+(-0.0013)Ala+(-0.0690)Cit+(0.0722)Tyr+(-0.1963)Met+(-0.1141)Trp;0.842,0.864,0.829,0.831,0.812,0.8

45,0.803,0.831,(6.5223)+(-0.0839)Cit+(0.0673)Tyr+(-0.2097)Met+(0.0170)Orn+(0.0032)Lys+(-0.1193)Trp;0.842,0.866,0.824,0.844,0.836,0.847,0.818,0.842,(5.5207)+(0.0051)Gln+(-0.0681)Cit+(-0.0105)Arg+(0.0701)Tyr+(-0.2261)Met+(-0.1140)Trp;0.842,0.863,0.816,0.833,0.819,0.840,0.804,0.831,(7.1673)+(-0.0653)Cit+(-0.0046)Arg+(0.0712)Tyr+(-0.1930)Met+(-0.1170)Trp;0.842,0.865,0.819,0.834,0.813,0.838,0.820,0.834,(7.2332)+(-0.0306)Asn+(-0.0672)Cit+(0.0712)Tyr+(-0.1868)Met+(0.0092)Leu+(-0.1226)Trp;0.842,0.864,0.823,0.832,0.816,0.839,0.806,0.831,(6.7337)+(0.0046)Thr+(-0.0706)Cit+(0.0721)Tyr+(-0.2354)Met+(0.0045)Lys+(-0.1217)Trp;0.842,0.866,0.823,0.837,0.822,0.841,0.811,0.835,(6.8536)+(-0.0645)Cit+(-0.0034)Arg+(0.0666)Tyr+(-0.1925)Met+(0.0110)Phe+(-0.1208)Trp;0.842,0.864,0.822,0.830,0.811,0.837,0.802,0.829,(6.7648)+(0.0052)Thr+(-0.0730)Cit+(0.0706)Tyr+(0.0036)Val+(-0.2233)Met+(-0.1243)Trp;0.842,0.860,0.819,0.831,0.813,0.828,0.819,0.830,(7.2067)+(-0.0803)Asn+(-0.0639)Cit+(0.0484)Tyr+(0.0059)Ile+(-0.1284)Trp;0.842,0.864,0.827,0.838,0.818,0.846,0.830,0.840,(6.8917)+(-0.0701)Cit+(-0.0075)Pro+(0.0749)Tyr+(-0.2193)Met+(0.0275)Ile+(-0.1224)Trp;0.842,0.866,0.829,0.842,0.829,0.852,0.818,0.841,(5.5687)+(0.0042)Gln+(0.0031)Thr+(-0.0759)Cit+(0.0698)Tyr+(-0.2462)Met+(-0.1160)Trp;0.842,0.867,0.818,0.851,0.843,0.845,0.843,0.849,(5.8268)+(-0.1085)Asn+(0.0063)Gln+(-0.0072)Thr+(-0.0685)Cit+(0.0478)Tyr+(-0.1208)Trp;0.842,0.860,0.816,0.838,0.824,0.841,0.827,0.838,(7.4134)+(-0.0734)Asn+(-0.0023)Ala+(-0.0637)Cit+(0.0521)Tyr+(-0.1207)Trp;0.842,0.862,0.817,0.832,0.816,0.834,0.809,0.830,(6.7789)+(-0.0703)Cit+(0.0723)Tyr+(-0.2235)Met+(0.0053)Lys+(-0.1210)Trp;0.842,0.865,0.811,0.834,0.816,0.826,0.825,0.833,(7.3813)+(-0.0034)Gly+(-0.0679)Cit+(0.0672)Tyr+(0.0038)Val+(-0.1928)Met+(-0.1240)Trp;0.842,0.862,0.806,0.835,0.817,0.818,0.840,0.834,(8.0200)+(-0.0687)Asn+(-0.0050)Gly+(-0.0581)Cit+(0.0458)Tyr+(-0.1260)Trp;0.841,0.863,0.832,0.828,0.806,0.842,

0.807,0.829,(6.4594)+(-0.0855)Cit+(0.0670)Tyr+(-0.2087)Met+(0.0174)Orn+(0.0076)Leu+(-0.1227)Trp;0.841,0.864,0.817,0.837,0.822,0.844,0.813,0.836,(7.2172)+(-0.0013)Ala+(-0.0653)Cit+(-0.0044)Arg+(0.0722)Tyr+(-0.1864)Met+(-0.1143)Trp

[0355] ［実施例６で探索された線形判別式の一覧（その１）］

以下に、前述した実施例６で探索された線形判別式を列挙する。なお、式の前には、その式について得られた、「バリデーション有りでの膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値」、「バリデーション無しでの膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と健常群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と他癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣの値」、および「膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣの値の平均値」を、さらに列挙する。

[0356] 0.862,0.876,0.836,0.862,0.854,0.866,0.850,0.862,(6.7413)+(-0.0941)Asn+(0.0093)Gln+(-0.0666)Cit+(0.0561)Tyr+(-0.1268)Met+(-0.1224)Trp;0.861,0.876,0.840,0.849,0.834,0.843,0.836,0.847,(8.2510)+(-0.0469)Asn+(-0.0498)Cit+(0.0525)Tyr+(-0.1388)Met+(0.0356)Phe+(-0.1294)Trp;0.860,0.874,0.859,0.845,0.831,0.848,0.818,0.843,(6.9429)+(0.0121)Thr+(-0.0594)Cit+(0.0463)Tyr+(-0.2151)Met+(0.0479)Phe+(-0.1367)Trp;0.860,0.871,0.841,0.839,0.820,0.854,0.814,0.840,(8.8283)+(-0.0615)Asn+(-0.0708)Cit+(0.0534)Tyr+(-0.1019)Met+(0.0231)Orn+(-0.1179)Trp;0.858,0.871,0.842,0.845,0.832,0.840,0.828,0.843,(7.2291)+(-0.0552)Cit+(0.0477)Tyr+(-0.1719)Met+(0.0417)Phe+(-0.1318)Trp;0.857,0.871,0.832,0.840,0.825,0.849,0.808,0.838,(9.1087)+(-0.0640)Asn+(0.0112)Thr+(-0.0561)Cit+(0.0564)Tyr+(-0.1303)Met+(-0.1204)Trp;0.857,0.873,0.836,0.849,0.841,0.843,0.829,0.846,(7.6157)+(-0.0525)Cit+(-0.0057)Pro+(0.0502)Tyr+(-0.1580)Met+(0.04

17)Phe+(-0.1349)Trp;0.857,0.875,0.820,0.865,0.865,0.868,0.838,0.862,(7.2197)+(-0.1137)Asn+(0.0090)Gln+(-0.0613)Cit+(-0.0095)Pro+(0.0452)Tyr+(-0.1360)Trp;0.856,0.874,0.857,0.857,0.853,0.851,0.841,0.855,(4.7009)+(0.0070)Gln+(-0.0685)Cit+(0.0441)Tyr+(-0.2171)Met+(0.0506)Phe+(-0.1384)Trp;0.856,0.872,0.845,0.853,0.841,0.857,0.843,0.853,(7.5089)+(-0.0029)Ala+(-0.0544)Cit+(0.0496)Tyr+(-0.1581)Met+(0.0411)Phe+(-0.1274)Trp;0.856,0.870,0.861,0.849,0.837,0.854,0.831,0.848,(6.2989)+(0.0102)Ser+(-0.0563)Cit+(0.0477)Tyr+(-0.1949)Met+(0.0483)Phe+(-0.1330)Trp;0.855,0.871,0.852,0.843,0.828,0.848,0.821,0.842,(7.0492)+(-0.0679)Cit+(0.0457)Tyr+(-0.1714)Met+(0.0151)Orn+(0.0379)Phe+(-0.1306)Trp;0.855,0.872,0.842,0.846,0.835,0.843,0.825,0.844,(7.3230)+(-0.0543)Cit+(0.0474)Tyr+(-0.1681)Met+(-0.0034)Leu+(0.0436)Phe+(-0.1303)Trp;0.855,0.871,0.843,0.844,0.831,0.840,0.828,0.842,(7.1567)+(-0.0553)Cit+(0.0479)Tyr+(-0.1754)Met+(0.0010)Lys+(0.0418)Phe+(-0.1326)Trp;0.855,0.867,0.818,0.840,0.826,0.842,0.821,0.839,(9.1261)+(-0.0569)Asn+(-0.0525)Cit+(0.0565)Tyr+(-0.0999)Met+(-0.1178)Trp;0.855,0.872,0.828,0.855,0.847,0.847,0.848,0.853,(6.5246)+(-0.0045)Gly+(0.0065)Gln+(-0.0666)Cit+(0.0437)Tyr+(-0.1509)Met+(-0.1216)Trp;0.854,0.869,0.836,0.843,0.828,0.857,0.821,0.844,(8.5671)+(0.0088)Ser+(-0.0642)Asn+(-0.0532)Cit+(0.0577)Tyr+(-0.1104)Met+(-0.1169)Trp;0.854,0.868,0.819,0.841,0.825,0.842,0.822,0.840,(8.9561)+(-0.0599)Asn+(-0.0525)Cit+(0.0575)Tyr+(-0.1093)Met+(0.0031)Lys+(-0.1203)Trp;0.854,0.870,0.831,0.839,0.820,0.832,0.833,0.839,(9.2964)+(-0.0799)Asn+(-0.0043)Gly+(-0.0645)Cit+(0.0360)Tyr+(0.0235)Orn+(-0.1248)Trp;0.854,0.867,0.822,0.847,0.835,0.854,0.833,0.847,(9.2762)+(-0.0536)Asn+(-0.0023)Ala+(-0.0523)Cit+(0.0577)Tyr+(-0.0913)Met+(-0.1145)Trp;0.853,0.868,0.819,0.840,0.825,0.843,0.822,0.839,(9.0817)+(-0.0567)Asn+(-0.0527)Cit+(0.0566)Tyr+(-0.1018)Met+(0.0010)Leu+(-0.1185)Trp;0.853,0.871,0.841,0.846,0.834,0.838,0.835,0.844,(7.4809)+(-0.0015

)Gly+(-0.0531)Cit+(0.0461)Tyr+(-0.1652)Met+(0.0405)Phe+(-0.1314)Trp;0
.853,0.868,0.830,0.840,0.820,0.846,0.833,0.842,(8.7118)+(-0.0562)Asn+
(-0.0553)Cit+(0.0576)Tyr+(-0.1194)Met+(0.0147)Ile+(-0.1189)Trp;0.853,
0.873,0.821,0.863,0.857,0.847,0.870,0.862,(7.5590)+(-0.1142)Asn+(-0.0
066)Gly+(0.0091)Gln+(-0.0565)Cit+(0.0337)Tyr+(-0.1305)Trp;0.853,0.864
,0.832,0.834,0.821,0.846,0.796,0.832,(7.9167)+(0.0081)Thr+(-0.0631)Ci
t+(0.0509)Tyr+(-0.1581)Met+(-0.1203)Trp;0.853,0.867,0.818,0.840,0.826
,0.843,0.821,0.839,(9.1439)+(-0.0569)Asn+(-0.0523)Cit+(0.0566)Tyr+(-0
.0002)Val+(-0.0998)Met+(-0.1175)Trp;0.853,0.869,0.857,0.868,0.879,0.8
60,0.841,0.863,(5.6045)+(-0.0728)Asn+(0.0103)Gln+(-0.0613)Cit+(-0.142
9)Met+(0.0505)Phe+(-0.1170)Trp;0.853,0.868,0.834,0.857,0.851,0.866,0.
842,0.857,(6.3677)+(0.0059)Gln+(-0.0034)Ala+(-0.0708)Cit+(0.0512)Tyr+
(-0.1486)Met+(-0.1166)Trp;0.853,0.870,0.823,0.854,0.851,0.862,0.823,0
.852,(6.3261)+(0.0066)Gln+(-0.0697)Cit+(-0.0076)Pro+(0.0521)Tyr+(-0.1
493)Met+(-0.1260)Trp;0.852,0.870,0.828,0.858,0.855,0.860,0.840,0.856,
(7.1920)+(-0.1090)Asn+(0.0084)Gln+(-0.0643)Cit+(0.0397)Tyr+(-0.0067)L
ys+(-0.1252)Trp;0.852,0.872,0.841,0.859,0.855,0.855,0.845,0.857,(6.64
80)+(-0.1169)Asn+(0.0077)Gln+(-0.0620)Cit+(0.0359)Tyr+(0.0126)Phe+(-0
.1367)Trp;0.852,0.869,0.827,0.857,0.857,0.858,0.833,0.854,(7.2409)+(-
0.1157)Asn+(0.0077)Gln+(-0.0619)Cit+(0.0405)Tyr+(-0.0060)Leu+(-0.1268
)Trp;0.852,0.868,0.850,0.843,0.826,0.842,0.836,0.843,(6.9305)+(-0.057
5)Cit+(0.0488)Tyr+(-0.1861)Met+(0.0121)Ile+(0.0401)Phe+(-0.1322)Trp;0
.852,0.868,0.834,0.865,0.864,0.872,0.857,0.865,(7.2186)+(-0.1085)Asn+
(0.0078)Gln+(-0.0040)Ala+(-0.0631)Cit+(0.0432)Tyr+(-0.1247)Trp;0.852,
0.864,0.838,0.833,0.816,0.848,0.803,0.833,(7.6916)+(-0.0762)Cit+(0.04
84)Tyr+(-0.1372)Met+(0.0201)Orn+(-0.1184)Trp;0.852,0.866,0.834,0.848,
0.840,0.855,0.825,0.846,(6.1119)+(0.0057)Gln+(-0.0714)Cit+(0.0491)Tyr
+(-0.1632)Met+(-0.1214)Trp;0.852,0.868,0.813,0.843,0.832,0.843,0.819,

0.841,(9.4226)+(-0.0544)Asn+(-0.0504)Cit+(-0.0051)Pro+(0.0585)Tyr+(-0.0890)Met+(-0.1206)Trp;0.852,0.869,0.832,0.855,0.851,0.853,0.839,0.853,(6.9872)+(-0.1169)Asn+(0.0077)Gln+(-0.0630)Cit+(0.0393)Tyr+(-0.1315)Trp;0.852,0.870,0.828,0.857,0.854,0.853,0.842,0.855,(6.9009)+(-0.1142)Asn+(0.0081)Gln+(-0.0036)Thr+(-0.0626)Cit+(0.0405)Tyr+(-0.1301)Trp;0.852,0.868,0.817,0.842,0.827,0.839,0.832,0.842,(9.4049)+(-0.0556)Asn+(-0.0020)Gly+(-0.0498)Cit+(0.0541)Tyr+(-0.0933)Met+(-0.1177)Trp;0.852,0.870,0.844,0.846,0.836,0.844,0.828,0.844,(7.3607)+(-0.0531)Cit+(0.0482)Tyr+(-0.0022)Val+(-0.1726)Met+(0.0432)Phe+(-0.1290)Trp;0.851,0.863,0.830,0.836,0.822,0.846,0.807,0.835,(7.6885)+(0.0043)Ser+(-0.0606)Cit+(0.0517)Tyr+(-0.1403)Met+(-0.1180)Trp;0.851,0.866,0.842,0.843,0.828,0.862,0.822,0.845,(7.9827)+(-0.0033)Ala+(-0.0760)Cit+(0.0503)Tyr+(-0.1224)Met+(0.0209)Orn+(-0.1137)Trp;0.851,0.870,0.830,0.867,0.871,0.842,0.866,0.863,(7.2500)+(-0.1025)Asn+(-0.0076)Gly+(0.0097)Gln+(-0.0528)Cit+(0.0206)Phe+(-0.1235)Trp;0.851,0.869,0.844,0.845,0.834,0.860,0.815,0.845,(6.0208)+(0.0052)Gln+(-0.0832)Cit+(0.0469)Tyr+(-0.1637)Met+(0.0157)Orn+(-0.1212)Trp;0.851,0.867,0.829,0.838,0.826,0.842,0.806,0.836,(9.1413)+(-0.0785)Asn+(-0.0693)Cit+(-0.0081)Pro+(0.0443)Tyr+(0.0264)Orn+(-0.1291)Trp;0.851,0.865,0.839,0.835,0.818,0.838,0.812,0.833,(8.6994)+(-0.0857)Asn+(-0.0692)Cit+(0.0394)Tyr+(0.0222)Orn+(-0.1261)Trp;0.851,0.867,0.830,0.840,0.826,0.839,0.820,0.838,(8.4478)+(-0.0037)Gly+(0.0101)Thr+(-0.0586)Cit+(0.0465)Tyr+(-0.1508)Met+(-0.1206)Trp;0.851,0.865,0.844,0.834,0.817,0.855,0.795,0.833,(7.6431)+(0.0061)Thr+(-0.0770)Cit+(0.0483)Tyr+(-0.1555)Met+(0.0180)Orn+(-0.1199)Trp;0.851,0.866,0.824,0.837,0.829,0.849,0.790,0.834,(8.3241)+(0.0093)Thr+(-0.0606)Cit+(-0.0063)Pro+(0.0535)Tyr+(-0.1467)Met+(-0.1240)Trp;0.851,0.867,0.830,0.837,0.824,0.852,0.798,0.835,(8.0977)+(-0.0759)Cit+(-0.0069)Pro+(0.0508)Tyr+(-0.1211)Met+(0.0237)Orn+(-0.1221)Trp;0.851,0.870,0.825,

0.856,0.853,0.852,0.841,0.854,(7.1163)+(-0.0039)Ser+(-0.1149)Asn+(0.0081)Gln+(-0.0635)Cit+(0.0392)Tyr+(-0.1319)Trp;0.851,0.861,0.815,0.834,0.822,0.829,0.814,0.831,(8.9887)+(-0.0809)Asn+(-0.0516)Cit+(0.0427)Tyr+(-0.1259)Trp;0.851,0.866,0.843,0.846,0.827,0.859,0.848,0.850,(7.8294)+(-0.0040)Ala+(-0.0625)Cit+(0.0555)Tyr+(-0.1420)Met+(0.0208)Ile+(-0.1141)Trp;0.850,0.868,0.845,0.860,0.862,0.842,0.851,0.856,(5.1235)+(-0.0933)Asn+(0.0077)Gln+(0.0473)Tyr+(-0.1702)Met+(0.0469)Phe+(-0.1384)Trp;0.850,0.866,0.837,0.847,0.838,0.853,0.827,0.846,(5.9727)+(0.0058)Gln+(-0.0721)Cit+(0.0493)Tyr+(-0.1686)Met+(0.0031)Leu+(-0.1234)Trp;0.850,0.866,0.832,0.834,0.820,0.838,0.801,0.831,(8.9450)+(-0.0838)Asn+(-0.0698)Cit+(0.0401)Tyr+(0.0251)Orn+(-0.0095)Ile+(-0.1244)Trp;0.850,0.867,0.839,0.836,0.819,0.845,0.808,0.835,(9.0091)+(-0.0761)Asn+(-0.0727)Cit+(0.0394)Tyr+(0.0265)Orn+(-0.0063)Lys+(-0.1198)Trp;0.850,0.866,0.834,0.848,0.840,0.856,0.825,0.847,(6.1246)+(0.0057)Gln+(-0.0713)Cit+(0.0492)Tyr+(-0.0002)Val+(-0.1632)Met+(-0.1211)Trp;0.850,0.862,0.824,0.834,0.820,0.840,0.811,0.833,(7.9490)+(-0.0602)Cit+(0.0516)Tyr+(-0.1365)Met+(0.0020)Leu+(-0.1197)Trp;0.850,0.865,0.839,0.834,0.817,0.853,0.802,0.834,(7.8845)+(-0.0776)Cit+(0.0473)Tyr+(-0.1264)Met+(0.0224)Orn+(-0.0032)Lys+(-0.1160)Trp;0.850,0.867,0.834,0.837,0.819,0.843,0.820,0.837,(8.1249)+(-0.0030)Gly+(-0.0727)Cit+(0.0448)Tyr+(-0.1265)Met+(0.0210)Orn+(-0.1183)Trp;0.850,0.862,0.823,0.835,0.822,0.841,0.811,0.834,(8.0278)+(-0.0598)Cit+(0.0515)Tyr+(-0.1332)Met+(-0.1184)Trp;0.850,0.870,0.826,0.856,0.855,0.850,0.833,0.852,(6.8089)+(-0.1125)Asn+(0.0086)Gln+(-0.0566)Cit+(-0.0112)Arg+(0.0406)Tyr+(-0.1280)Trp;0.850,0.868,0.832,0.862,0.863,0.852,0.855,0.860,(7.7324)+(-0.1031)Asn+(-0.0079)Gly+(0.0091)Gln+(-0.0700)Cit+(0.0213)Orn+(-0.1133)Trp;0.850,0.867,0.793,0.863,0.866,0.833,0.870,0.859,(7.7024)+(-0.1161)Asn+(-0.0081)Gly+(0.0088)Gln+(-0.0095)Pro+(0.0367)Tyr+(-0.1345)Trp;0.850,0.867,0.839,0.

847,0.838,0.857,0.820,0.846,(6.1803)+(0.0054)Gln+(0.0040)Thr+(-0.0723)Cit+(0.0490)Tyr+(-0.1736)Met+(-0.1222)Trp;0.850,0.866,0.845,0.835,0.819,0.854,0.802,0.835,(7.3709)+(0.0041)Ser+(-0.0769)Cit+(0.0486)Tyr+(-0.1440)Met+(0.0200)Orn+(-0.1180)Trp;0.850,0.870,0.843,0.853,0.846,0.859,0.833,0.852,(6.8958)+(-0.1183)Asn+(0.0072)Gln+(-0.0760)Cit+(0.0370)Tyr+(0.0173)Orn+(-0.1312)Trp;0.850,0.863,0.814,0.838,0.828,0.840,0.809,0.835,(8.4140)+(-0.0571)Cit+(-0.0057)Pro+(0.0539)Tyr+(-0.1193)Met+(-0.1214)Trp;0.850,0.870,0.848,0.846,0.830,0.849,0.833,0.845,(7.6348)+(-0.0196)His+(-0.0494)Cit+(0.0488)Tyr+(-0.1613)Met+(0.0422)Phe+(-0.1223)Trp;0.850,0.864,0.832,0.838,0.819,0.838,0.837,0.839,(7.9697)+(-0.0022)Gly+(-0.0592)Cit+(0.0500)Tyr+(-0.1438)Met+(0.0145)Ile+(-0.1193)Trp;0.850,0.868,0.875,0.859,0.853,0.858,0.859,0.860,(4.5131)+(0.0067)Gln+(-0.0464)His+(0.0415)Tyr+(-0.2036)Met+(0.0584)Phe+(-0.1196)Trp;0.850,0.863,0.825,0.844,0.833,0.850,0.829,0.844,(8.3132)+(-0.0031)Ala+(-0.0590)Cit+(0.0534)Tyr+(-0.1191)Met+(-0.1139)Trp;0.850,0.867,0.847,0.848,0.836,0.855,0.836,0.849,(5.6910)+(0.0057)Gln+(-0.0742)Cit+(0.0503)Tyr+(-0.1833)Met+(0.0155)Ile+(-0.1225)Trp;0.849,0.865,0.838,0.833,0.816,0.849,0.802,0.833,(7.7061)+(-0.0762)Cit+(0.0483)Tyr+(-0.1365)Met+(0.0203)Orn+(-0.0004)Leu+(-0.1182)Trp;0.849,0.865,0.817,0.864,0.869,0.846,0.860,0.860,(7.8536)+(-0.1003)Asn+(-0.0078)Gly+(0.0098)Gln+(-0.0540)Cit+(-0.1119)Trp;0.849,0.867,0.828,0.855,0.854,0.853,0.834,0.852,(7.1131)+(-0.1160)Asn+(0.0078)Gln+(-0.0623)Cit+(0.0398)Tyr+(-0.0050)Ile+(-0.1306)Trp;0.849,0.864,0.834,0.834,0.821,0.849,0.795,0.832,(7.7842)+(0.0018)Ser+(0.0075)Thr+
(-0.0632)Cit+(0.0510)Tyr+(-0.1594)Met+(-0.1200)Trp;0.849,0.865,0.834,0.843,0.832,0.858,0.815,0.843,(8.2047)+(0.0082)Thr+(-0.0031)Ala+(-0.0623)Cit+(0.0528)Tyr+(-0.1442)Met+(-0.1158)Trp;0.849,0.864,0.816,0.837,0.825,0.839,0.811,0.835,(8.3035)+(-0.0577)Cit+(-0.0058)Pro+(0.0541)T

yr+(-0.1240)Met+(0.0031)Leu+(-0.1235)Trp;0.849,0.866,0.842,0.846,0.831,0.859,0.832,0.847,(8.9582)+(-0.0769)Asn+(-0.0038)Ala+(-0.0696)Cit+(0.0432)Tyr+(0.0230)Orn+(-0.1195)Trp;0.849,0.863,0.835,0.835,0.816,0.844,0.824,0.836,(7.6049)+(-0.0626)Cit+(0.0526)Tyr+(-0.1533)Met+(0.0155)Ile+(-0.1195)Trp;0.849,0.866,0.820,0.840,0.825,0.842,0.825,0.840,(9.1048)+(-0.0593)Asn+(-0.0567)Cit+(0.0059)Arg+(0.0570)Tyr+(-0.1096)Met+(-0.1193)Trp;0.849,0.864,0.832,0.834,0.821,0.847,0.795,0.832,(7.9340)+(0.0081)Thr+(-0.0629)Cit+(0.0510)Tyr+(-0.0002)Val+(-0.1580)Met+(-0.1199)Trp;0.849,0.868,0.832,0.856,0.854,0.856,0.839,0.854,(7.0675)+(-0.1170)Asn+(0.0077)Gln+(-0.0621)Cit+(0.0397)Tyr+(-0.0011)Val+(-0.1298)Trp;0.849,0.865,0.837,0.835,0.819,0.852,0.804,0.835,(7.7848)+(-0.0756)Cit+(0.0487)Tyr+(-0.0014)Val+(-0.1369)Met+(0.0208)Orn+(-0.1163)Trp;0.849,0.865,0.830,0.839,0.823,0.844,0.825,0.839,(7.9489)+(-0.0602)Cit+(-0.0065)Pro+(0.0557)Tyr+(-0.1420)Met+(0.0190)Ile+(-0.1232)Trp;0.849,0.865,0.830,0.847,0.840,0.852,0.825,0.846,(6.2111)+(-0.0027)Ser+(0.0061)Gln+(-0.0716)Cit+(0.0489)Tyr+(-0.1605)Met+(-0.1218)Trp;0.849,0.869,0.843,0.852,0.842,0.870,0.833,0.853,(6.3176)+(0.0071)Gln+(-0.0309)His+(-0.0651)Cit+(0.0504)Tyr+(-0.1529)Met+(-0.1069)Trp;0.849,0.864,0.832,0.834,0.821,0.845,0.795,0.831,(7.9243)+(0.0083)Thr+(-0.0624)Cit+(-0.0009)Arg+(0.0508)Tyr+(-0.1570)Met+(-0.1201)Trp;0.849,0.864,0.827,0.844,0.832,0.850,0.828,0.843,(8.2323)+(-0.0032)Ala+(-0.0600)Cit+(0.0531)Tyr+(0.0013)Val+(-0.1188)Met+(-0.1157)Trp;0.849,0.862,0.823,0.835,0.822,0.842,0.811,0.834,(8.0322)+(-0.0597)Cit+(0.0515)Tyr+(-0.0001)Val+(-0.1332)Met+(-0.1183)Trp;0.849,0.864,0.833,0.836,0.820,0.846,0.811,0.835,(7.5334)+(0.0048)Ser+(-0.0612)Cit+(0.0519)Tyr+(-0.1460)Met+(0.0030)Leu+(-0.1198)Trp;0.849,0.865,0.845,0.836,0.820,0.843,0.814,0.835,(8.4285)+(0.0042)Ser+(-0.0903)Asn+(-0.0695)Cit+(0.0393)Tyr+(0.0222)Orn+(-0.1261)Trp;0.849,0.868,0.844,0.844,0.831,0.843,0.830,0.843,(7.1352)

+(-0.0595)Cit+(0.0058)Arg+(0.0478)Tyr+(-0.1841)Met+(0.0431)Phe+(-0.1337)Trp;0.849,0.863,0.830,0.836,0.822,0.846,0.807,0.835,(7.6634)+(0.0044)Ser+(-0.0608)Cit+(0.0516)Tyr+(0.0003)Val+(-0.1405)Met+(-0.1184)Trp;0.848,0.863,0.846,0.837,0.816,0.850,0.826,0.839,(7.1469)+(0.0054)Ser+(-0.0638)Cit+(0.0530)Tyr+(-0.1638)Met+(0.0167)Ile+(-0.1191)Trp;0.848,0.863,0.832,0.845,0.834,0.856,0.827,0.845,(8.0011)+(0.0039)Ser+(-0.0030)Ala+(-0.0597)Cit+(0.0535)Tyr+(-0.1258)Met+(-0.1136)Trp;0.848,0.864,0.818,0.838,0.824,0.833,0.825,0.837,(8.4155)+(-0.0026)Gly+(-0.0561)Cit+(0.0485)Tyr+(-0.1238)Met+(-0.1183)Trp

[0357] ［実施例６で探索されたロジスティック回帰式の一覧（その２）］

以下に、前述した実施例６で探索されたロジスティック回帰式を列挙する。なお、式の前には、その式について得られた、「バリデーション有りでの膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値」、「バリデーション無しでの膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と健常群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と他癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣの値」、および「膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣの値の平均値」を、さらに列挙する。

[0358] 0.822,0.849,0.870,0.853,0.863,0.864,0.828,0.851,(4.0457)+(0.0070)Gln+(-0.0515)His+(0.0059)Thr+(-0.1935)Met+(0.0373)Phe+(-0.0815)Trp;0.816,0.846,0.867,0.852,0.860,0.857,0.842,0.851,(3.8120)+(0.0071)Gln+(-0.0493)His+(-0.1898)Met+(0.0091)Ile+(0.0363)Phe+(-0.0794)Trp;0.814,0.843,0.865,0.845,0.845,0.853,0.843,0.846,(3.9326)+(0.0076)Gln+(-0.0633)His+(-0.1928)Met+(0.0151)Leu+(0.0318)Phe+(-0.0832)Trp;0.815,0.845,0.864,0.849,0.857,0.852,0.835,0.847,(3.9733)+(0.0067)Gln+(-0.0552)His+(-0.1915)Met+(0.0066)Lys+(0.0373)Phe+(-0.0839)Trp;0.829,0.856,0.862,0.862,

0.873,0.865,0.847,0.860,(4.3532)+(-0.0698)Asn+(0.0097)Gln+(-0.0451)His+(-0.1329)Met+(0.0325)Phe+(-0.0772)Trp;0.792,0.823,0.861,0.830,0.825,0.849,0.841,0.835,(4.3379)+(0.0035)Gln+(-0.0631)His+(-0.0027)Ala+(0.0100)Leu+(0.0235)Phe+(-0.0977)Trp;0.816,0.844,0.861,0.844,0.847,0.850,0.834,0.844,(4.0571)+(0.0071)Gln+(-0.0612)His+(0.0065)Val+(-0.1772)Met+(0.0336)Phe+(-0.0857)Trp;0.819,0.846,0.860,0.852,0.862,0.857,0.831,0.849,(4.0114)+(0.0072)Gln+(-0.0503)His+(0.0005)Ala+(-0.1800)Met+(0.0363)Phe+(-0.0804)Trp;0.807,0.836,0.860,0.833,0.833,0.844,0.817,0.833,(5.8122)+(-0.0364)His+(0.0086)Thr+(-0.1719)Met+(0.0137)Ile+(0.0317)Phe+(-0.0854)Trp;0.814,0.843,0.860,0.848,0.851,0.852,0.850,0.849,(4.9199)+(-0.0928)Asn+(0.0076)Gln+(-0.0574)His+(0.0073)Leu+(0.0163)Phe+(-0.0871)Trp;0.822,0.846,0.859,0.853,0.864,0.860,0.834,0.851,(4.0072)+(0.0073)Gln+(-0.0498)His+(-0.1774)Met+(0.0364)Phe+(-0.0796)Trp;0.817,0.844,0.859,0.851,0.858,0.853,0.846,0.850,(4.9719)+(-0.0954)Asn+(0.0074)Gln+(-0.0522)His+(0.0021)Lys+(0.0185)Phe+(-0.0856)Trp;0.791,0.823,0.859,0.823,0.816,0.837,0.830,0.826,(4.3739)+(0.0037)Gln+(-0.0629)His+(-0.0049)Lys+(0.0114)Leu+(0.0215)Phe+(-0.1003)Trp;0.796,0.827,0.859,0.828,0.822,0.845,0.837,0.833,(4.3455)+(0.0034)Gln+(-0.0670)His+(-0.0028)Ala+(0.0077)Val+(0.0250)Phe+(-0.1011)Trp;0.822,0.846,0.858,0.853,0.861,0.855,0.846,0.852,(4.9586)+(-0.0934)Asn+(0.0076)Gln+(-0.0505)His+(0.0188)Phe+(-0.0842)Trp;0.818,0.847,0.858,0.855,0.863,0.861,0.848,0.855,(4.9370)+(-0.0916)Asn+(0.0076)Gln+(-0.0496)His+(-0.0008)Ala+(0.0196)Phe+(-0.0830)Trp;0.816,0.845,0.858,0.845,0.846,0.846,0.845,0.845,(4.8767)+(-0.0938)Asn+(0.0075)Gln+(-0.0609)His+(0.0063)Val+(0.0188)Phe+(-0.0922)Trp;0.794,0.827,0.858,0.821,0.812,0.831,0.822,0.823,(4.3702)+(0.0035)Gln+(-0.0660)His+(0.0077)Val+(-0.0042)Lys+(0.0236)Phe+(-0.1043)Trp;0.797,0.821,0.858,0.819,0.813,0.830,0.826,0.822,(4.3809)+(0.0030)Gln+(-0.0646)His+(0.0086)Leu+(0.0219)Phe+(-0.1028)Trp;0.796,0.826

,0.857,0.837,0.842,0.853,0.832,0.838,(4.3693)+(0.0036)Gln+(-0.0529)His+(-0.0022)Ala+(-0.0016)Lys+(0.0258)Phe+(-0.0919)Trp;0.800,0.826,0.857,0.835,0.839,0.850,0.832,0.836,(4.3693)+(0.0034)Gln+(-0.0543)His+(-0.0023)Ala+(0.0258)Phe+(-0.0931)Trp;0.799,0.828,0.857,0.828,0.829,0.837,0.818,0.828,(4.4040)+(0.0033)Gln+(-0.0549)His+(-0.0020)Lys+(0.0243)Phe+(-0.0964)Trp;0.803,0.826,0.857,0.826,0.826,0.834,0.819,0.826,(4.4043)+(0.0030)Gln+(-0.0567)His+(0.0242)Phe+(-0.0981)Trp;0.799,0.825,0.856,0.817,0.806,0.823,0.823,0.819,(4.3613)+(0.0029)Gln+(-0.0684)His+(0.0069)Val+(0.0236)Phe+(-0.1068)Trp;0.811,0.839,0.856,0.835,0.842,0.848,0.800,0.832,(6.0297)+(0.0019)Ser+(-0.0368)His+(0.0082)Thr+(-0.1534)Met+(0.0322)Phe+(-0.0850)Trp;0.830,0.859,0.856,0.856,0.863,0.866,0.825,0.853,(4.6037)+(0.0080)Gln+(-0.0384)His+(-0.0575)Cit+(-0.1601)Met+(0.0318)Phe+(-0.0822)Trp;0.818,0.847,0.856,0.854,0.862,0.856,0.843,0.852,(4.9921)+(-0.0923)Asn+(0.0077)Gln+(-0.0506)His+(-0.0023)Ile+(0.0190)Phe+(-0.0838)Trp;0.816,0.845,0.855,0.854,0.862,0.856,0.848,0.853,(5.0050)+(-0.0914)Asn+(0.0078)Gln+(-0.0507)His+(-0.0043)Orn+(0.0193)Phe+(-0.0843)Trp;0.827,0.856,0.855,0.857,0.863,0.865,0.841,0.856,(5.4374)+(-0.0773)Asn+(0.0079)Gln+(-0.0403)His+(-0.0527)Cit+(0.0160)Phe+(-0.0886)Trp;0.795,0.826,0.855,0.818,0.808,0.823,0.820,0.819,(4.3684)+(0.0029)Gln+(-0.0676)His+(0.0089)Val+(-0.0044)Leu+(0.0245)Phe+(-0.1068)Trp;0.818,0.848,0.855,0.857,0.871,0.856,0.839,0.853,(4.1613)+(0.0081)Gln+(-0.0492)His+(-0.1782)Met+(-0.0128)Orn+(0.0386)Phe+(-0.0807)Trp;0.807,0.835,0.855,0.825,0.819,0.837,0.815,0.826,(6.2118)+(-0.0495)His+(0.0098)Thr+(-0.1688)Met+(0.0149)Leu+(0.0276)Phe+(-0.0903)Trp;0.829,0.857,0.854,0.848,0.848,0.871,0.814,0.848,(5.8334)+(-0.0856)Asn+(0.0070)Gln+(-0.0341)His+(-0.0759)Cit+(0.0252)Orn+(-0.0832)Trp;0.835,0.858,0.854,0.846,0.848,0.856,0.808,0.842,(5.5348)+(-0.0893)Asn+(0.0051)Gln+(-0.0838)Cit+(0.0263)Orn+(0.0084)Phe+(-0.1077)Trp;0.800,0.833,0.854,

0.840,0.850,0.860,0.818,0.840,(5.1355)+(0.0055)Gln+(-0.0488)His+(0.0041)Thr+(-0.1734)Met+(0.0096)Ile+(-0.0642)Trp;0.817,0.846,0.853,0.852,0.863,0.853,0.834,0.849,(4.2089)+(-0.0036)Ser+(0.0077)Gln+(-0.0497)His+(-0.1744)Met+(0.0355)Phe+(-0.0801)Trp;0.809,0.836,0.853,0.831,0.835,0.837,0.808,0.829,(5.9667)+(-0.0448)His+(0.0070)Thr+(-0.1730)Met+(0.0092)Lys+(0.0332)Phe+(-0.0909)Trp;0.824,0.848,0.853,0.832,0.830,0.839,0.801,0.829,(5.9620)+(0.0074)Thr+(-0.0656)Cit+(-0.1745)Met+(0.0231)Ile+(0.0281)Phe+(-0.1031)Trp;0.800,0.835,0.853,0.833,0.829,0.850,0.826,0.835,(5.0671)+(0.0062)Gln+(-0.0681)His+(0.0057)Thr+(-0.1904)Met+(0.0201)Leu+(-0.0719)Trp;0.814,0.838,0.853,0.834,0.840,0.846,0.801,0.831,(6.2023)+(-0.0364)His+(0.0085)Thr+(-0.1512)Met+(0.0316)Phe+(-0.0855)Trp;0.811,0.838,0.853,0.831,0.836,0.838,0.797,0.827,(6.1897)+(-0.0376)His+(0.0087)Thr+(0.0010)Ala+(-0.1574)Met+(0.0315)Phe+(-0.0872)Trp;0.802,0.832,0.853,0.831,0.832,0.840,0.821,0.831,(5.5437)+(0.0039)Ser+(-0.0337)His+(-0.1517)Met+(0.0141)Ile+(0.0312)Phe+(-0.0824)Trp;0.831,0.858,0.852,0.852,0.845,0.863,0.846,0.853,(4.3912)+(0.0064)Gln+(-0.0514)His+(0.0516)Tyr+(-0.2316)Met+(0.0226)Phe+(-0.0955)Trp;0.817,0.845,0.852,0.854,0.862,0.854,0.849,0.853,(4.8907)+(-0.0922)Asn+(0.0080)Gln+(-0.0490)His+(-0.0038)Thr+(0.0196)Phe+(-0.0830)Trp;0.799,0.831,0.852,0.832,0.827,0.848,0.839,0.836,(4.5889)+(0.0025)Gln+(-0.0565)His+(-0.0028)Ala+(0.0262)Tyr+(0.0187)Phe+(-0.1029)Trp;0.820,0.849,0.852,0.857,0.870,0.866,0.836,0.855,(4.2012)+(0.0079)Gln+(-0.0482)His+(-0.0063)Pro+(-0.1598)Met+(0.0364)Phe+(-0.0837)Trp;0.791,0.823,0.852,0.823,0.817,0.829,0.835,0.826,(4.2681)+(0.0038)Gln+(-0.0624)His+(-0.0062)Thr+(0.0088)Leu+(0.0231)Phe+(-0.1003)Trp;0.787,0.819,0.852,0.821,0.818,0.828,0.828,0.823,(4.5779)+(0.0037)Gln+(-0.0648)His+(-0.0121)Orn+(0.0092)Leu+(0.0229)Phe+(-0.1034)Trp;0.816,0.842,0.851,0.837,0.842,0.846,0.807,0.834,(6.6822)+(-0.0302)Asn+(-0.0328)His+(0.0090)Thr+(-0.1260)Met+(0.

0291)Phe+(-0.0845)Trp;0.795,0.827,0.851,0.838,0.844,0.849,0.840,0.840,(4.2848)+(0.0041)Gln+(-0.0522)His+(-0.0055)Thr+(-0.0021)Ala+(0.0265)Phe+(-0.0911)Trp;0.817,0.845,0.851,0.853,0.861,0.853,0.847,0.852,(5.1736)+(-0.0042)Ser+(-0.0910)Asn+(0.0080)Gln+(-0.0507)His+(0.0180)Phe+(-0.0846)Trp;0.809,0.842,0.851,0.826,0.820,0.849,0.792,0.826,(5.1495)+(0.0033)Gln+(-0.0404)His+(-0.0766)Cit+(0.0195)Orn+(0.0172)Phe+(-0.1043)Trp;0.808,0.836,0.851,0.824,0.821,0.831,0.805,0.823,(6.2140)+(-0.0491)His+(0.0083)Thr+(0.0071)Val+(-0.1516)Met+(0.0289)Phe+(-0.0928)Trp;0.834,0.857,0.851,0.850,0.853,0.869,0.814,0.848,(5.7897)+(-0.0886)Asn+(0.0053)Gln+(-0.0015)Ala+(-0.0858)Cit+(0.0278)Orn+(-0.0973)Trp;0.823,0.851,0.851,0.851,0.851,0.863,0.842,0.852,(5.7685)+(-0.0813)Asn+(0.0080)Gln+(-0.0472)His+(-0.0543)Cit+(0.0100)Leu+(-0.0856)Trp;0.793,0.826,0.851,0.813,0.794,0.825,0.829,0.818,(4.5317)+(0.0021)Gln+(-0.0669)His+(0.0242)Tyr+(0.0088)Leu+(0.0158)Phe+(-0.1140)Trp;0.826,0.854,0.851,0.855,0.857,0.868,0.840,0.855,(5.8304)+(-0.0850)Asn+(0.0077)Gln+(-0.0377)His+(-0.0555)Cit+(0.0078)Ile+(-0.0813)Trp;0.792,0.825,0.850,0.837,0.845,0.847,0.833,0.837,(4.5443)+(0.0041)Gln+(-0.0540)His+(-0.0022)Ala+(-0.0112)Orn+(0.0271)Phe+(-0.0938)Trp;0.797,0.825,0.850,0.834,0.843,0.847,0.821,0.834,(4.5421)+(0.0038)Gln+(-0.0550)His+(-0.0018)Ala+(-0.0085)Ile+(0.0260)Phe+(-0.0924)Trp;0.837,0.858,0.850,0.848,0.850,0.866,0.807,0.845,(5.8033)+(-0.0866)Asn+(0.0058)Gln+(-0.0883)Cit+(0.0298)Orn+(-0.0049)Lys+(-0.0965)Trp;0.805,0.837,0.850,0.843,0.846,0.850,0.841,0.843,(5.3970)+(-0.0980)Asn+(0.0075)Gln+(-0.0577)His+(0.0004)Lys+(0.0102)Leu+(-0.0802)Trp;0.811,0.837,0.850,0.842,0.845,0.850,0.841,0.843,(5.3938)+(-0.0977)Asn+(0.0076)Gln+(-0.0576)His+(0.0103)Leu+(-0.0800)Trp;0.792,0.823,0.850,0.819,0.813,0.821,0.824,0.820,(4.5738)+(0.0037)Gln+(-0.0693)His+(0.0078)Val+(-0.0139)Orn+(0.0252)Phe+(-0.1085)Trp;0.827,0.854,0.850,0.846,0.851,0.845,0.815,0.841,(4.1430)+(0.0054)Gl

n+(-0.0702)Cit+(-0.1900)Met+(0.0191)Ile+(0.0316)Phe+(-0.1007)Trp;0.817,0.848,0.850,0.852,0.867,0.860,0.818,0.848,(4.1776)+(0.0086)Gln+(-0.0460)His+(-0.0196)Arg+(-0.1497)Met+(0.0332)Phe+(-0.0773)Trp;0.798,0.825,0.849,0.829,0.832,0.835,0.827,0.830,(4.3007)+(0.0038)Gln+(-0.0543)His+(-0.0060)Thr+(0.0253)Phe+(-0.0955)Trp;0.807,0.837,0.849,0.843,0.846,0.850,0.844,0.844,(5.3904)+(-0.0965)Asn+(0.0076)Gln+(-0.0573)His+(-0.0006)Ala+(0.0108)Leu+(-0.0791)Trp;0.799,0.829,0.849,0.823,0.816,0.833,0.824,0.825,(4.5722)+(0.0024)Gln+(-0.0569)His+(0.0239)Tyr+(-0.0022)Lys+(0.0180)Phe+(-0.1069)Trp;0.794,0.825,0.849,0.820,0.811,0.825,0.831,0.823,(4.2729)+(0.0037)Gln+(-0.0658)His+(-0.0059)Thr+(0.0068)Val+(0.0244)Phe+(-0.1039)Trp;0.796,0.828,0.849,0.812,0.793,0.820,0.823,0.816,(4.5205)+(0.0021)Gln+(-0.0693)His+(0.0224)Tyr+(0.0063)Val+(0.0176)Phe+(-0.1157)Trp;0.794,0.825,0.849,0.830,0.833,0.836,0.827,0.830,(4.3037)+(0.0038)Gln+(-0.0538)His+(-0.0059)Thr+(-0.0005)Lys+(0.0253)Phe+(-0.0951)Trp;0.836,0.856,0.849,0.844,0.847,0.859,0.804,0.841,(5.7897)+(-0.0922)Asn+(0.0052)Gln+(-0.0857)Cit+(0.0278)Orn+(-0.1020)Trp;0.801,0.828,0.849,0.821,0.812,0.829,0.823,0.823,(4.5646)+(0.0021)Gln+(-0.0589)His+(0.0239)Tyr+(0.0181)Phe+(-0.1088)Trp;0.810,0.842,0.849,0.847,0.848,0.857,0.844,0.848,(5.2333)+(-0.0746)Asn+(0.0091)Gln+(-0.0597)His+(-0.1225)Met+(0.0171)Leu+(-0.0685)Trp;0.811,0.842,0.849,0.830,0.840,0.839,0.776,0.824,(6.6704)+(-0.0318)His+(0.0119)Thr+(-0.0163)Arg+(-0.1329)Met+(0.0289)Phe+(-0.0854)Trp;0.803,0.830,0.849,0.827,0.827,0.826,0.823,0.827,(5.7665)+(-0.0422)His+(-0.1658)Met+(0.0094)Lys+(0.0098)Ile+(0.0318)Phe+(-0.0891)Trp;0.834,0.856,0.849,0.844,0.847,0.859,0.804,0.841,(5.7989)+(-0.0921)Asn+(0.0052)Gln+(-0.0858)Cit+(0.0279)Orn+(-0.0006)Ile+(-0.1018)Trp;0.806,0.838,0.849,0.827,0.821,0.842,0.809,0.827,(5.1326)+(0.0042)Gln+(-0.0505)His+(-0.0593)Cit+(0.0075)Leu+(0.0181)Phe+(-0.1065)Trp;0.832,0.856,0.849,0.845,0.847,0.859,0.804,0.842,(5.

8035)+(-0.0922)Asn+(0.0052)Gl
n+(-0.0857)Cit+(0.0279)Orn+(-0.0007)Leu+(-0.1011)Trp;0.796,0.832,0.84
8,0.839,0.847,0.854,0.822,0.839,(5.1013)+(0.0054)Gln+(-0.0516)His+(-0
.1702)Met+(0.0048)Lys+(0.0079)Ile+(-0.0660)Trp;0.791,0.823,0.848,0.82
9,0.835,0.834,0.820,0.828,(4.5886)+(0.0039)Gln+(-0.0552)His+(-0.0113)
Orn+(-0.0014)Lys+(0.0255)Phe+(-0.0973)Trp;0.811,0.840,0.848,0.835,0.8
42,0.843,0.801,0.831,(6.4219)+(-0.0355)His+(0.0092)Thr+(-0.1507)Met+(
-0.0066)Orn+(0.0324)Phe+(-0.0865)Trp;0.823,0.854,0.848,0.849,0.840,0.
854,0.855,0.851,(5.1755)+(-0.1116)Asn+(0.0070)Gln+(-0.0522)His+(0.036
6)Tyr+(0.0104)Phe+(-0.0981)Trp;0.790,0.817,0.848,0.822,0.816,0.847,0.
829,0.828,(4.9852)+(0.0031)Gln+(-0.0632)His+(-0.0023)Ala+(0.0132)Leu+
(-0.0876)Trp;0.812,0.843,0.848,0.843,0.847,0.862,0.818,0.843,(5.1065)
+(0.0045)Gln+(-0.0407)His+(-0.0023)Ala+(-0.0595)Cit+(0.0227)Phe+(-0.0
981)Trp;0.794,0.823,0.848,0.827,0.833,0.831,0.819,0.826,(4.5935)+(0.0
037)Gln+(-0.0564)His+(-0.0115)Orn+(0.0254)Phe+(-0.0985)Trp;0.807,0.83
8,0.848,0.844,0.858,0.833,0.827,0.839,(3.3646)+(0.0045)Gln+(-0.0045)V
al+(-0.2143)Met+(0.0181)Ile+(0.0375)Phe+(-0.0948)Trp;0.797,0.827,0.84
8,0.820,0.814,0.817,0.826,0.821,(4.7359)+(-0.0071)Ser+(0.0039)Gln+(-0
.0666)His+(0.0061)Val+(0.0229)Phe+(-0.1070)Trp;0.828,0.851,0.848,0.83
5,0.833,0.850,0.795,0.832,(6.9364)+(-0.0552)Asn+(-0.0016)Ala+(-0.0835
)Cit+(0.0294)Orn+(0.0112)Phe+(-0.1032)Trp;0.806,0.837,0.848,0.843,0.8
46,0.847,0.844,0.843,(5.4499)+(-0.0957)Asn+(0.0078)Gln+(-0.0581)His+(
-0.0044)Orn+(0.0108)Leu+(-0.0803)Trp;0.801,0.830,0.847,0.824,0.820,0.
835,0.817,0.825,(5.8651)+(0.0050)Ser+(-0.0458)His+(-0.1451)Met+(0.014
3)Leu+(0.0271)Phe+(-0.0868)Trp;0.812,0.837,0.847,0.837,0.844,0.843,0.
813,0.834,(6.3477)+(0.0051)Ser+(-0.0331)Asn+(-0.0294)His+(-0.1029)Met
+(0.0287)Phe+(-0.0814)Trp;0.827,0.853,0.847,0.846,0.843,0.857,0.832,0
.846,(5.8232)+(-0.0817)Asn+(0.0079)Gln+(-0.0518)His+(-0.0593)Cit+(0.0

090)Val+(-0.0901)Trp;0.814,0.844,0.847,0.854,0.861,0.865,0.846,0.854,(5.3017)+(-0.0842)Asn+(0.0086)Gln+(-0.0431)His+(-0.1104)Met+(0.0125)Ile+(-0.0628)Trp;0.805,0.834,0.847,0.824,0.821,0.831,0.808,0.823,(5.8236)+(0.0053)Ser+(-0.0478)His+(0.0077)Val+(-0.1340)Met+(0.0287)Phe+(-0.0904)Trp;0.801,0.833,0.847,0.832,0.834,0.847,0.809,0.831,(5.2756)+(0.0057)Gln+(-0.0645)His+(0.0040)Thr+(0.0085)Val+(-0.1633)Met+(-0.0737)Trp;0.833,0.856,0.847,0.842,0.841,0.854,0.803,0.839,(5.7383)+(-0.0931)Asn+(0.0050)Gln+(-0.0875)Cit+(0.0028)Val+(0.0269)Orn+(-0.1075)Trp;0.800,0.825,0.847,0.826,0.835,0.829,0.803,0.823,(4.6321)+(0.0036)Gln+(-0.0570)His+(-0.0115)Ile+(0.0249)Phe+(-0.0957)Trp;0.800,0.833,0.847,0.840,0.850,0.858,0.812,0.838,(5.3399)+(0.0053)Gln+(-0.0529)His+(0.0033)Thr+(-0.1680)Met+(0.0049)Lys+(-0.0673)Trp;0.794,0.816,0.847,0.813,0.806,0.831,0.814,0.817,(4.9732)+(0.0027)Gln+(-0.0645)His+(0.0119)Leu+(-0.0927)Trp

[0359] ［実施例６で探索された線形判別式の一覧（その２）］

以下に、前述した実施例６で探索された線形判別式を列挙する。なお、式の前には、その式について得られた、「バリデーション有りでの膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値」、「バリデーション無しでの膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と健常群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と他癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣの値」、および「膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣの値の平均値」を、さらに列挙する。

[0360] 0.835,0.856,0.885,0.856,0.862,0.858,0.839,0.853,(4.7750)+(0.0066)Gln+(-0.0466)His+(0.0084)Thr+(-0.1967)Met+(0.0666)Phe+(-0.1057)Trp;0.830,0.847,0.879,0.841,0.844,0.850,0.811,0.838,(6.3287)+(0.0082)Ser+(-0.03

54)His+(0.0106)Thr+(-0.1818)Met+(0.0636)Phe+(-0.1048)Trp;0.832,0.854,0.879,0.857,0.864,0.857,0.845,0.855,(4.5078)+(0.0044)Ser+(0.0068)Gln+(-0.0446)His+(-0.1778)Met+(0.0652)Phe+(-0.1034)Trp;0.850,0.868,0.875,0.859,0.853,0.858,0.859,0.860,(4.5131)+(0.0067)Gln+(-0.0464)His+(0.0415)Tyr+(-0.2036)Met+(0.0584)Phe+(-0.1196)Trp;0.842,0.861,0.874,0.847,0.836,0.858,0.840,0.849,(5.8514)+(0.0112)Ser+(-0.0351)His+(0.0451)Tyr+(-0.1899)Met+(0.0558)Phe+(-0.1194)Trp;0.843,0.861,0.874,0.867,0.877,0.860,0.857,0.864,(5.4146)+(-0.0732)Asn+(0.0098)Gln+(-0.0393)His+(-0.1330)Met+(0.0569)Phe+(-0.1021)Trp;0.833,0.852,0.873,0.856,0.864,0.853,0.846,0.854,(4.7041)+(0.0072)Gln+(-0.0445)His+(-0.1723)Met+(0.0010)Ile+(0.0629)Phe+(-0.1036)Trp;0.832,0.853,0.872,0.856,0.864,0.853,0.846,0.854,(4.7480)+(0.0073)Gln+(-0.0442)His+(-0.1698)Met+(-0.0005)Lys+(0.0629)Phe+(-0.1034)Trp;0.832,0.853,0.872,0.856,0.864,0.853,0.845,0.854,(4.7112)+(0.0073)Gln+(-0.0449)His+(-0.1718)Met+(0.0006)Leu+(0.0627)Phe+(-0.1037)Trp;0.835,0.853,0.872,0.857,0.865,0.854,0.846,0.854,(4.7280)+(0.0073)Gln+(-0.0444)His+(-0.1713)Met+(0.0630)Phe+(-0.1036)Trp;0.832,0.853,0.872,0.857,0.866,0.854,0.846,0.855,(4.7677)+(0.0072)Gln+(-0.0432)His+(-0.0008)Val+(-0.1718)Met+(0.0634)Phe+(-0.1030)Trp;0.834,0.855,0.871,0.861,0.871,0.850,0.852,0.857,(4.7622)+(0.0081)Gln+(-0.0434)His+(-0.1739)Met+(-0.0123)Orn+(0.0662)Phe+(-0.1044)Trp;0.823,0.842,0.871,0.839,0.842,0.846,0.821,0.838,(6.1502)+(0.0114)Ser+(-0.0320)His+(-0.1569)Met+(0.0047)Ile+(0.0595)Phe+(-0.1018)Trp;0.833,0.852,0.871,0.861,0.870,0.863,0.851,0.859,(4.8549)+(0.0073)Gln+(-0.0426)His+(-0.0016)Ala+(-0.1636)Met+(0.0627)Phe+(-0.1016)Trp;0.835,0.857,0.870,0.860,0.870,0.858,0.840,0.856,(4.6757)+(0.0083)Gln+(-0.0434)His+(-0.0124)Arg+(-0.1513)Met+(0.0604)Phe+(-0.1006)Trp;0.827,0.846,0.870,0.838,0.841,0.840,0.812,0.835,(6.8948)+(-0.0343)His+(0.0126)Thr+(-0.1757)Met+(0.0036)Ile+(0.0589)Phe+(-0.1054)Trp;0.826,0.847,0.870,0.842,0.848,0.8

49,0.814,0.839,(7.1174)+(-0.0323)His+(0.0125)Thr+(-0.0016)Ala+(-0.1639)Met+(0.0590)Phe+(-0.1035)Trp;0.844,0.864,0.869,0.860,0.866,0.864,0.833,0.857,(5.0647)+(0.0091)Gln+(-0.0334)His+(-0.0581)Cit+(-0.1734)Met+(0.0589)Phe+(-0.1056)Trp;0.829,0.848,0.869,0.838,0.842,0.840,0.807,0.834,(7.0009)+(-0.0338)His+(0.0125)Thr+(-0.1709)Met+(-0.0004)Leu+(0.0595)Phe+(-0.1054)Trp;0.826,0.848,0.869,0.838,0.842,0.840,0.807,0.834,(7.0012)+(-0.0340)His+(0.0126)Thr+(-0.1710)Met+(-0.0001)Lys+(0.0593)Phe+(-0.1054)Trp;0.831,0.847,0.869,0.838,0.842,0.840,0.807,0.834,(6.9942)+(-0.0341)His+(0.0126)Thr+(-0.1713)Met+(0.0593)Phe+(-0.1054)Trp;0.827,0.847,0.869,0.839,0.844,0.842,0.805,0.835,(7.0613)+(-0.0318)His+(0.0126)Thr+(-0.0016)Val+(-0.1729)Met+(0.0603)Phe+(-0.1044)Trp;0.829,0.851,0.869,0.838,0.843,0.842,0.796,0.833,(7.1912)+(-0.0326)His+(0.0151)Thr+(-0.0095)Arg+(-0.1597)Met+(0.0574)Phe+(-0.1037)Trp;0.824,0.843,0.868,0.843,0.851,0.840,0.822,0.839,(6.3042)+(0.0115)Thr+(-0.0104)Val+(-0.2152)Met+(0.0227)Ile+(0.0629)Phe+(-0.1080)Trp;0.823,0.843,0.868,0.839,0.844,0.846,0.815,0.837,(6.3043)+(0.0111)Ser+(-0.0316)His+(-0.1509)Met+(-0.0002)Leu+(0.0599)Phe+(-0.1019)Trp;0.822,0.842,0.868,0.839,0.844,0.846,0.816,0.837,(6.2737)+(0.0110)Ser+(-0.0321)His+(-0.1527)Met+(0.0006)Lys+(0.0599)Phe+(-0.1022)Trp;0.824,0.843,0.868,0.844,0.849,0.854,0.823,0.842,(6.4322)+(0.0108)Ser+(-0.0301)His+(-0.0013)Ala+(-0.1441)Met+(0.0594)Phe+(-0.1003)Trp;0.826,0.843,0.868,0.839,0.844,0.847,0.815,0.837,(6.2988)+(0.0111)Ser+(-0.0317)His+(-0.1511)Met+(0.0599)Phe+(-0.1019)Trp;0.822,0.842,0.868,0.839,0.844,0.847,0.815,0.837,(6.3189)+(0.0111)Ser+(-0.0312)His+(-0.0003)Val+(-0.1512)Met+(0.0600)Phe+(-0.1017)Trp;0.828,0.849,0.868,0.840,0.845,0.840,0.808,0.835,(7.1759)+(-0.0328)His+(0.0140)Thr+(-0.1746)Met+(-0.0077)Orn+(0.0613)Phe+(-0.1062)Trp;0.844,0.863,0.867,0.842,0.830,0.848,0.828,0.842,(6.5893)+(-0.0369)His+(0.0115)Thr+(0.0437)Tyr+(-0.2052)Met+(0.0547)Phe+(-0.1221)Trp

;0.841,0.861,0.867,0.842,0.842,0.849,0.797,0.837,(7.7857)+(-0.0223)His+(0.0149)Thr+(-0.0491)Cit+(-0.1717)Met+(0.0548)Phe+(-0.1074)Trp;0.830,0.848,0.867,0.846,0.851,0.854,0.823,0.844,(7.0759)+(0.0136)Ser+(-0.0459)Asn+(-0.0257)His+(-0.1226)Met+(0.0554)Phe+(-0.1006)Trp;0.834,0.852,0.866,0.843,0.847,0.842,0.814,0.839,(7.9229)+(-0.0447)Asn+(-0.0283)His+(0.0142)Thr+(-0.1444)Met+(0.0542)Phe+(-0.1046)Trp;0.824,0.844,0.866,0.841,0.845,0.846,0.819,0.838,(6.3750)+(0.0113)Ser+(-0.0310)His+(-0.1507)Met+(-0.0033)Orn+(0.0605)Phe+(-0.1021)Trp;0.841,0.857,0.866,0.840,0.844,0.848,0.791,0.835,(6.7740)+(0.0068)Ser+(0.0115)Thr+(-0.0553)Cit+(-0.1877)Met+(0.0567)Phe+(-0.1179)Trp;0.825,0.845,0.866,0.840,0.845,0.849,0.811,0.837,(6.3684)+(0.0123)Ser+(-0.0303)His+(-0.0065)Arg+(-0.1397)Met+(0.0585)Phe+(-0.1002)Trp;0.833,0.850,0.865,0.843,0.850,0.839,0.811,0.837,(6.7437)+(0.0097)Ser+(-0.0600)Asn+(0.0098)Thr+(-0.1567)Met+(0.0563)Phe+(-0.1173)Trp;0.826,0.845,0.865,0.854,0.868,0.842,0.844,0.850,(4.5855)+(0.0053)Gln+(-0.0102)Val+(-0.2080)Met+(0.0200)Ile+(0.0644)Phe+(-0.1098)Trp;0.820,0.837,0.865,0.842,0.851,0.841,0.828,0.839,(5.7758)+(0.0089)Ser+(-0.0087)Val+(-0.1895)Met+(0.0202)Ile+(0.0618)Phe+(-0.1060)Trp;0.836,0.852,0.864,0.840,0.840,0.845,0.811,0.837,(6.4386)+(0.0108)Ser+(-0.0536)Cit+(-0.1663)Met+(0.0106)Ile+(0.0523)Phe+(-0.1131)Trp;0.833,0.853,0.863,0.860,0.872,0.859,0.845,0.857,(4.9038)+(0.0081)Gln+(-0.0419)His+(-0.0071)Pro+(-0.1583)Met+(0.0642)Phe+(-0.1083)Trp;0.842,0.858,0.863,0.839,0.838,0.841,0.798,0.834,(7.1060)+(0.0135)Thr+(-0.0572)Cit+(-0.1907)Met+(0.0101)Ile+(0.0521)Phe+(-0.1180)Trp;0.829,0.849,0.863,0.856,0.865,0.851,0.850,0.854,(6.3399)+(-0.1007)Asn+(0.0081)Gln+(-0.0420)His+(-0.0000)Val+(0.0309)Phe+(-0.1053)Trp;0.831,0.849,0.863,0.856,0.865,0.851,0.850,0.854,(6.3386)+(-0.1007)Asn+(0.0081)Gln+(-0.0420)His+(0.0308)Phe+(-0.1053)Trp;0.828,0.849,0.863,0.848,0.847,0.840,0.853,0.847,(6.8868)+(0.0203)Ser+(-0.0083)Gly+(-0.02

88)His+(-0.1425)Met+(0.0575)Phe+(-0.1048)Trp;0.833,0.852,0.863,0.842,0.845,0.854,0.806,0.839,(7.0529)+(0.0115)Ser+(-0.0199)His+(-0.0457)Cit+(-0.1445)Met+(0.0547)Phe+(-0.1032)Trp;0.828,0.849,0.862,0.856,0.865,0.850,0.851,0.854,(6.3566)+(-0.0005)Ser+(-0.1005)Asn+(0.0081)Gln+(-0.0420)His+(0.0307)Phe+(-0.1053)Trp;0.821,0.839,0.862,0.839,0.849,0.832,0.816,0.834,(5.5659)+(0.0083)Ser+(-0.1741)Met+(0.0220)Ile+(-0.0162)Leu+(0.0645)Phe+(-0.1118)Trp;0.829,0.849,0.862,0.856,0.865,0.850,0.852,0.854,(6.3041)+(-0.0997)Asn+(0.0082)Gln+(-0.0417)His+(-0.0012)Thr+(0.0310)Phe+(-0.1049)Trp;0.842,0.861,0.862,0.864,0.870,0.868,0.849,0.862,(6.6307)+(-0.0962)Asn+(0.0095)Gln+(-0.0324)His+(-0.0535)Cit+(0.0266)Phe+(-0.1073)Trp;0.845,0.862,0.862,0.853,0.864,0.847,0.809,0.845,(4.9646)+(0.0069)Gln+(0.0085)Thr+(-0.0668)Cit+(-0.2085)Met+(0.0592)Phe+(-0.1238)Trp;0.856,0.870,0.861,0.849,0.837,0.854,0.831,0.848,(6.2989)+(0.0102)Ser+(-0.0563)Cit+(0.0477)Tyr+(-0.1949)Met+(0.0483)Phe+(-0.1330)Trp;0.830,0.850,0.861,0.858,0.868,0.856,0.850,0.856,(6.4072)+(-0.0961)Asn+(0.0084)Gln+(-0.0397)His+(-0.0046)Lys+(0.0328)Phe+(-0.1032)Trp;0.842,0.859,0.861,0.836,0.836,0.844,0.780,0.830,(7.2191)+(0.0113)Thr+(-0.0664)Cit+(-0.1726)Met+(0.0139)Orn+(0.0485)Phe+(-0.1168)Trp;0.833,0.851,0.861,0.846,0.850,0.825,0.843,0.842,(6.2953)+(0.0165)Ser+(-0.0095)Gly+(0.0104)Thr+(-0.1883)Met+(0.0594)Phe+(-0.1251)Trp;0.845,0.861,0.861,0.844,0.847,0.848,0.798,0.839,(8.2542)+(-0.0415)Asn+(0.0150)Thr+(-0.0507)Cit+(-0.1521)Met+(0.0491)Phe+(-0.1149)Trp;0.838,0.854,0.861,0.837,0.837,0.851,0.791,0.833,(6.5845)+(0.0094)Ser+(-0.0666)Cit+(-0.1530)Met+(0.0177)Orn+(0.0480)Phe+(-0.1126)Trp;0.830,0.850,0.861,0.858,0.867,0.852,0.853,0.856,(6.3558)+(-0.0996)Asn+(0.0084)Gln+(-0.0417)His+(-0.0061)Orn+(0.0322)Phe+(-0.1058)Trp;0.829,0.849,0.861,0.858,0.870,0.852,0.847,0.854,(6.4511)+(-0.1005)Asn+(0.0080)Gln+(-0.0378)His+(-0.0054)Leu+(0.0344)Phe+(-0.1046)Trp;0.840,0.855,0.861,0.846,0.852,0

.855,0.808,0.842,(7.4662)+(0.0127)Ser+(-0.0419)Asn+(-0.0466)Cit+(-0.1258)Met+(0.0499)Phe+(-0.1095)Trp;0.827,0.849,0.860,0.862,0.872,0.867,0.862,0.862,(6.4302)+(-0.0953)Asn+(0.0081)Gln+(-0.0393)His+(-0.0025)Ala+(0.0326)Phe+(-0.1021)Trp;0.807,0.826,0.860,0.825,0.827,0.827,0.819,0.825,(5.6387)+(0.0034)Gln+(-0.0527)His+(0.0009)Val+(0.0282)Phe+(-0.1097)Trp;0.824,0.844,0.860,0.841,0.848,0.850,0.809,0.838,(6.6200)+(0.0112)Ser+(-0.0287)His+(-0.0049)Pro+(-0.1387)Met+(0.0598)Phe+(-0.1050)Trp;0.821,0.840,0.860,0.831,0.840,0.820,0.797,0.824,(5.4732)+(0.0067)Ser+(0.0076)Thr+(-0.1949)Met+(0.0028)Ile+(0.0608)Phe+(-0.1223)Trp;0.811,0.826,0.860,0.826,0.828,0.828,0.819,0.826,(5.6897)+(0.0033)Gln+(-0.0513)His+(0.0286)Phe+(-0.1090)Trp;0.828,0.847,0.860,0.832,0.843,0.826,0.778,0.823,(5.7500)+(0.0081)Ser+(0.0108)Thr+(-0.0127)Arg+(-0.1771)Met+(0.0594)Phe+(-0.1189)Trp;0.817,0.838,0.859,0.841,0.846,0.856,0.821,0.840,(6.2129)+(0.0053)Gln+(-0.0482)His+(0.0045)Thr+(-0.1235)Met+(0.0088)Leu+(-0.0845)Trp;0.837,0.859,0.859,0.864,0.870,0.841,0.876,0.862,(5.4692)+(-0.0070)Gly+(0.0085)Gln+(-0.0426)His+(-0.1550)Met+(0.0577)Phe+(-0.1064)Trp;0.809,0.832,0.859,0.832,0.836,0.839,0.818,0.831,(5.7477)+(0.0046)Gln+(-0.0497)His+(0.0028)Val+(-0.0097)Lys+(0.0316)Phe+(-0.1061)Trp;0.842,0.858,0.859,0.839,0.843,0.843,0.785,0.832,(7.5521)+(0.0141)Thr+(-0.0552)Cit+(-0.1713)Met+(-0.0030)Lys+(0.0530)Phe+(-0.1161)Trp;0.835,0.854,0.859,0.848,0.842,0.842,0.854,0.848,(6.1029)+(0.0480)Tyr+(-0.0117)Val+(-0.2202)Met+(0.0273)Ile+(0.0526)Phe+(-0.1209)Trp;0.860,0.874,0.859,0.845,0.831,0.848,0.818,0.843,(6.9429)+(0.0121)Thr+(-0.0594)Cit+(0.0463)Tyr+(-0.2151)Met+(0.0479)Phe+(-0.1367)Trp;0.842,0.857,0.859,0.845,0.850,0.852,0.798,0.839,(7.5772)+(0.0133)Thr+(-0.0022)Ala+(-0.0545)Cit+(-0.1673)Met+(0.0529)Phe+(-0.1141)Trp;0.841,0.858,0.859,0.840,0.844,0.843,0.787,0.833,(7.4685)+(0.0135)Thr+(-0.0534)Cit+(-0.0019)Val+(-0.1797)Met+(0.0547)Phe+(-0.1154)Trp;0.804,0.826,0.8

59,0.840,0.846,0.856,0.843,0.843,(5.7909)+(0.0039)Gln+(-0.0489)His+(-0.0045)Ala+(0.0024)Val+(0.0309)Phe+(-0.1046)Trp;0.825,0.843,0.858,0.837,0.852,0.828,0.794,0.829,(6.0754)+(0.0056)Ser+(0.0089)Thr+(-0.0053)Val+(-0.1927)Met+(0.0643)Phe+(-0.1147)Trp;0.823,0.841,0.858,0.832,0.843,0.823,0.791,0.824,(5.7463)+(0.0071)Ser+(0.0085)Thr+(-0.1836)Met+(-0.0035)Lys+(0.0611)Phe+(-0.12

01)Trp;0.841,0.857,0.858,0.849,0.849,0.842,0.838,0.847,(7.1001)+(0.0175)Ser+(-0.0066)Gly+(-0.0442)Cit+(-0.1473)Met+(0.0522)Phe+(-0.1150)Trp;0.844,0.857,0.858,0.838,0.841,0.840,0.788,0.831,(7.3543)+(0.0132)Thr+(-0.0552)Cit+(-0.1786)Met+(0.0532)Phe+(-0.1179)Trp;0.840,0.857,0.858,0.838,0.841,0.839,0.788,0.831,(7.3518)+(0.0132)Thr+(-0.0553)Cit+(0.0002)Arg+(-0.1789)Met+(0.0532)Phe+(-0.1180)Trp;0.808,0.829,0.858,0.843,0.850,0.858,0.841,0.844,(5.9101)+(0.0038)Gln+(-0.0456)His+(-0.0043)Ala+(0.0319)Phe+(-0.1032)Trp;0.829,0.850,0.857,0.840,0.846,0.843,0.801,0.835,(7.3449)+(-0.0311)His+(0.0137)Thr+(-0.0056)Pro+(-0.1609)Met+(0.0599)Phe+(-0.1093)Trp;0.843,0.859,0.857,0.839,0.844,0.841,0.784,0.832,(7.4594)+(0.0130)Thr+(-0.0542)Cit+(-0.1740)Met+(-0.0037)Leu+(0.0552)Phe+(-0.1163)Trp;0.835,0.853,0.857,0.839,0.834,0.826,0.832,0.836,(4.9461)+(0.0090)Ser+(0.0425)Tyr+(-0.2123)Met+(0.0050)Ile+(0.0541)Phe+(-0.1370)Trp;0.823,0.843,0.857,0.839,0.854,0.819,0.809,0.831,(4.3521)+(0.0027)Ser+(0.0040)Gln+(0.0054)Thr+(-0.2041)Met+(0.0630)Phe+(-0.1262)Trp;0.827,0.841,0.857,0.831,0.840,0.819,0.794,0.823,(5.5659)+(0.0066)Ser+(0.0076)Thr+(-0.1913)Met+(0.0610)Phe+(-0.1223)Trp;0.821,0.841,0.857,0.837,0.847,0.826,0.807,0.830,(6.0719)+(0.0090)Thr+(-0.1880)Met+(0.0215)Ile+(-0.0165)Leu+(0.0640)Phe+(-0.1150)Trp;0.812,0.833,0.857,0.834,0.840,0.840,0.816,0.832,(5.8826)+(0.0045)Gln+(-0.0459)His+(-0.0090)Lys+(0.0325)Phe+(-0.1046)Trp;0.853,0.869,0.857,0.868,0.879,0.860,0.841,0.863,(5.6045)+(-0.0728)Asn+(0.0103)Gln+(-0.0613)Cit+(-0.1429)Met

+(0.0505)Phe+(-0.1170)Trp;0.836,0.855,0.857,0.856,0.870,0.836,0.834,0.849,(5.3166)+(-0.0835)Asn+(0.0074)Gln+(0.0075)Thr+(-0.1613)Met+(0.0561)Phe+(-0.1225)Trp;0.848,0.863,0.857,0.850,0.842,0.845,0.845,0.849,(6.4101)+(0.0131)Ser+(-0.0699)Asn+(0.0499)Tyr+(-0.1645)Met+(0.0474)Phe+(-0.1332)Trp;0.835,0.854,0.857,0.859,0.874,0.843,0.840,0.853,(4.9875)+(0.0058)Ser+(-0.0829)Asn+(0.0074)Gln+(-0.1472)Met+(0.0560)Phe+(-0.1197)Trp;0.844,0.861,0.857,0.851,0.845,0.823,0.863,0.848,(5.7670)+(0.0170)Ser+(-0.0073)Gly+(0.0351)Tyr+(-0.1905)Met+(0.0532)Phe+(-0.1350)Trp;0.828,0.845,0.857,0.843,0.851,0.838,0.821,0.839,(6.5849)+(0.0126)Ser+(-0.0559)Asn+(-0.1341)Met+(0.0038)Ile+(0.0530)Phe+(-0.1133)Trp;0.821,0.846,0.857,0.833,0.829,0.851,0.801,0.832,(6.0414)+(0.0046)Gln+(-0.0396)His+(-0.0673)Cit+(0.0130)Orn+(0.0205)Phe+(-0.1104)Trp;0.808,0.832,0.857,0.834,0.842,0.840,0.815,0.832,(5.9095)+(0.0044)Gln+(-0.0448)His+(-0.0087)Lys+(-0.0016)Leu+(0.0334)Phe+(-0.1045)Trp;0.814,0.836,0.857,0.842,0.851,0.860,0.816,0.841,(6.3887)+(0.0050)Gln+(-0.0414)His+(0.0036)Thr+(-0.1159)Met+(0.0058)Ile+(-0.0823)Trp;0.838,0.859,0.857,0.855,0.859,0.876,0.823,0.854,(7.2421)+(-0.0971)Asn+(0.0087)Gln+(-0.0275)His+(-0.0714)Cit+(0.0201)Orn+(-0.0961)Trp;0.840,0.859,0.857,0.853,0.861,0.847,0.823,0.847,(4.7303)+(0.0076)Gln+(-0.0666)Cit+(-0.1912)Met+(0.0082)Ile+(0.0548)Phe+(-0.1207)Trp

[0361] ［実施例７で探索されたロジスティック回帰式の一覧（その１）］

以下に、前述した実施例７で探索されたロジスティック回帰式を列挙する。なお、式の前には、その式について得られた、「バリデーション有りでの膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値」、「バリデーション無しでの膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と健常群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と他癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値」、および「膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と

大腸癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値の値の平均値」を、さらに列挙する。

[0362] 0.877,0.907,0.895,0.804,0.799,0.752,0.819,(3.0499)+(0.0406)Ser+(-0.0121)Ala+(-0.0402)Val+(-0.1789)Met+(0.1361)Ile;0.874,0.914,0.889,0.824,0.829,0.766,0.836,(1.8050)+(0.0287)Ser+(0.0081)Gln+(-0.0133)Ala+(-0.0421)Val+(-0.2379)Met+(0.1384)Ile;0.873,0.911,0.872,0.841,0.854,0.785,0.850,(3.2506)+(0.0146)Gln+(-0.0127)Ala+(-0.0711)Cit+(-0.0454)Val+(-0.2177)Met+(0.1443)Ile;0.872,0.909,0.906,0.801,0.796,0.747,0.817,(3.3965)+(0.0311)Ser+(0.0246)Thr+(-0.0128)Ala+(-0.0466)Val+(-0.2635)Met+(0.1591)Ile;0.872,0.909,0.898,0.804,0.798,0.752,0.820,(1.9444)+(0.0409)Ser+(-0.0141)Ala+(-0.0498)Val+(-0.2446)Met+(0.0197)Lys+(0.1613)Ile;0.871,0.906,0.896,0.810,0.813,0.753,0.824,(3.0424)+(0.0387)Ser+(0.0297)His+(-0.0131)Ala+(-0.0487)Val+(-0.2265)Met+(0.1561)Ile;0.871,0.910,0.897,0.808,0.801,0.761,0.824,(3.3274)+(0.0409)Ser+(-0.0117)Ala+(-0.0293)Cit+(-0.0398)Val+(-0.1603)Met+(0.1354)Ile;0.871,0.910,0.886,0.795,0.791,0.736,0.812,(2.9136)+(0.0391)Ser+(-0.0129)Ala+(-0.0439)Val+(-0.1895)Met+(0.1445)Ile+(0.0213)Trp;0.871,0.909,0.904,0.809,0.804,0.758,0.824,(2.5705)+(0.0423)Ser+(-0.0115)Ala+(-0.0427)Val+(-0.1878)Met+(0.1360)Ile+(0.0134)Phe;0.871,0.907,0.894,0.803,0.797,0.753,0.819,(3.0263)+(0.0422)Ser+(-0.0117)Ala+(-0.0466)Val+(-0.1894)Met+(0.1237)Ile+(0.0178)Leu;0.870,0.913,0.906,0.806,0.790,0.766,0.823,(2.4936)+(0.0432)Ser+(-0.0118)Ala+(0.0462)Tyr+(-0.0485)Val+(-0.2565)Met+(0.1511)Ile;0.870,0.906,0.897,0.803,0.796,0.754,0.819,(3.0382)+(0.0402)Ser+(-0.0120)Ala+(-0.0407)Val+(-0.1802)Met+(0.0043)Orn+(0.1345)Ile;0.869,0.906,0.893,0.800,0.794,0.747,0.816,(3.1053)+(0.0413)Ser+(-0.0187)Asn+(-0.0122)Ala+(-0.0403)Val+(-0.1520)Met+(0.1375)Ile;0.869,0.911,0.844,0.821,0.852,0.728,0.830,(3.6477)+(-0.1046)Asn+(0.0141)Gln+(-0.0129)Ala+(-0.0256)Pro+(-0.0496)Val+(0.1669)Ile;0.868,0.906,0.842,0.816,0.830,0.745,0.

827,(3.9145)+(-0.1050)Asn+(0.0147)Gln+(-0.0158)Ala+(-0.0820)Cit+(-0.0437)Val+(0.1389)Ile;0.867,0.908,0.854,0.793,0.801,0.717,0.808,(2.5456)+(0.0259)Ser+(-0.1002)Asn+(0.0075)Gln+(-0.0164)Ala+(-0.0403)Val+(0.1270)Ile;0.865,0.898,0.867,0.777,0.776,0.711,0.795,(3.8433)+(0.0389)Ser+(-0.0574)Asn+(-0.0145)Ala+(-0.0373)Cit+(-0.0394)Val+(0.1275)Ile;0.865,0.912,0.902,0.802,0.793,0.753,0.819,(2.8640)+(0.0372)Ser+(-0.0135)Ala+(0.0205)Arg+(-0.0437)Val+(-0.2293)Met+(0.1532)Ile;0.865,0.914,0.884,0.822,0.829,0.761,0.835,(3.6660)+(0.0086)Gln+(0.0244)Thr+(-0.0136)Ala+(-0.0488)Val+(-0.2914)Met+(0.1546)Ile;0.865,0.907,0.891,0.811,0.816,0.749,0.824,(3.7418)+(0.0379)Ser+(-0.0109)Ala+(-0.0113)Pro+(-0.0427)Val+(-0.1565)Met+(0.1486)Ile;0.864,0.917,0.864,0.842,0.867,0.765,0.850,(3.2795)+(0.0145)Gln+(-0.0114)Ala+(-0.0234)Pro+(-0.0513)Val+(-0.2086)Met+(0.1692)Ile;0.864,0.904,0.880,0.807,0.804,0.757,0.822,(6.4815)+(-0.0134)Ala+(-0.0621)Cit+(0.0404)Arg+(-0.0464)Val+(-0.1757)Met+(0.1534)Ile;0.864,0.906,0.896,0.807,0.799,0.762,0.822,(6.2885)+(0.0375)Thr+(-0.0124)Ala+(-0.0376)Cit+(-0.0494)Val+(-0.2412)Met+(0.1628)Ile;0.864,0.898,0.861,0.764,0.762,0.690,0.783,(2.7856)+(0.0404)Ser+(-0.0938)Asn+(-0.0176)Ala+(-0.0470)Val+(0.0160)Lys+(0.1421)Ile;0.863,0.898,0.864,0.772,0.771,0.701,0.790,(3.4932)+(0.0376)Ser+(-0.0658)Asn+(-0.0152)Ala+(-0.0395)Val+(0.1263)Ile;0.863,0.892,0.848,0.777,0.779,0.711,0.794,(3.8688)+(0.0304)Ser+(-0.0164)Ala+(-0.0455)Cit+(-0.0380)Val+(0.1120)Ile;0.862,0.892,0.838,0.768,0.773,0.691,0.785,(3.4307)+(0.0273)Ser+(-0.0177)Ala+(-0.0373)Val+(0.1054)Ile;0.862,0.905,0.831,0.818,0.845,0.732,0.827,(3.7841)+(0.0113)Gln+(-0.0162)Ala+(-0.0585)Cit+(-0.0201)Pro+(-0.0455)Val+(0.1396)Ile;0.862,0.892,0.885,0.830,0.830,0.794,0.839,(1.4679)+(0.0224)Ser+(0.0106)Gln+(-0.0645)Cit+(-0.0500)Val+(-0.3305)Met+(0.1556)Ile;0.861,0.902,0.862,0.765,0.761,0.694,0.786,(3.4150)+(0.0353)Ser+(-0.0913)Asn+(-0.0170)Ala+(0.0192)Arg+(-0.0419)Val+(0.1393)

Ile;0.861,0.911,0.870,0.828,0.842,0.761,0.838,(3.2184)+(0.0111)Gln+(-0.0132)Ala+(-0.0439)Val+(-0.2077)Met+(0.1344)Ile;0.861,0.894,0.830,0.801,0.823,0.720,0.812,(3.7223)+(-0.0870)Asn+(0.0100)Gln+(-0.0160)Ala+(-0.0424)Val+(0.1267)Ile;0.861,0.898,0.864,0.772,0.769,0.706,0.791,(3.4579)+(0.0372)Ser+(-0.0704)Asn+(-0.0149)Ala+(-0.0403)Val+(0.0085)Orn+(0.1246)Ile;0.860,0.903,0.822,0.820,0.840,0.745,0.829,(2.5839)+(0.0123)Gln+(-0.0180)Ala+(-0.0933)Cit+(-0.0160)Pro+(0.1735)Ile+(-0.0857)Leu;0.860,0.907,0.895,0.804,0.796,0.756,0.820,(3.2301)+(0.0443)Ser+(-0.0029)Gly+(-0.0119)Ala+(-0.0403)Val+(-0.1807)Met+(0.1358)Ile;0.859,0.890,0.905,0.800,0.783,0.774,0.816,(2.8315)+(0.0312)Ser+(0.0223)Thr+(-0.0416)Cit+(-0.0522)Val+(-0.3341)Met+(0.1697)Ile;0.859,0.895,0.843,0.785,0.798,0.705,0.799,(4.0937)+(0.0273)Ser+(-0.0151)Ala+(-0.0154)Pro+(-0.0408)Val+(0.1272)Ile;0.859,0.895,0.825,0.807,0.838,0.715,0.816,(3.6909)+(0.0090)Gln+(-0.0160)Ala+(-0.0233)Pro+(-0.0459)Val+(0.1389)Ile;0.859,0.895,0.897,0.795,0.765,0.780,0.814,(2.3171)+(0.0426)Ser+(-0.0369)Cit+(0.0544)Tyr+(-0.0577)Val+(-0.3487)Met+(0.1682)Ile;0.859,0.905,0.866,0.789,0.796,0.713,0.805,(4.1103)+(0.0358)Ser+(-0.0610)Asn+(-0.0129)Ala+(-0.0140)Pro+(-0.0425)Val+(0.1452)Ile;0.859,0.900,0.861,0.766,0.765,0.693,0.786,(3.6380)+(0.0339)Ser+(-0.0808)Asn+(0.0105)Thr+(-0.0161)Ala+(-0.0412)Val+(0.1322)Ile;0.859,0.894,0.860,0.768,0.767,0.700,0.787,(3.4924)+(0.0388)Ser+(-0.0697)Asn+(-0.0149)Ala+(-0.0454)Val+(0.1160)Ile+(0.0159)Leu;0.858,0.901,0.852,0.829,0.840,0.772,0.838,(1.8392)+(0.0145)Gln+(-0.0164)Ala+(-0.0957)Cit+(-0.1504)Met+(0.1590)Ile+(-0.0746)Leu;0.858,0.896,0.846,0.822,0.848,0.743,0.829,(3.2627)+(-0.1568)Asn+(0.0168)Gln+(-0.0623)Cit+(-0.0290)Pro+(-0.0560)Val+(0.1759)Ile;0.858,0.900,0.889,0.804,0.802,0.752,0.818,(5.9958)+(0.0352)Thr+(-0.0126)Ala+(-0.0500)Val+(-0.2580)Met+(0.1616)Ile;0.858,0.885,0.893,0.798,0.782,0.771,0.813,(2.5428)+(0.0397)Ser+(-0.0359)Cit+(-0.0470)Val+(-0.

2580)Met+(0.1513)Ile;0.858,0.914,0.874,0.829,0.838,0.769,0.840,(3.000
1)+(0.0109)Gln+(-0.0126)Ala+(0.0335)Tyr+(-0.0501)Val+(-0.2630)Met+(0.
1449)Ile;0.858,0.898,0.854,0.775,0.782,0.696,0.792,(3.5574)+(0.0359)S
er+(-0.0834)Asn+(0.0225)His+(-0.0163)Ala+(-0.0455)Val+(0.1400)Ile;0.8
58,0.894,0.886,0.826,0.828,0.787,0.836,(2.7972)+(0.0118)Gln+(0.0191)T
hr+(-0.0733)Cit+(-0.0554)Val+(-0.3788)Met+(0.1690)Ile;0.858,0.894,0.8
33,0.770,0.762,0.712,0.789,(3.0835)+(0.0252)Ser+(-0.0192)Ala+(-0.0851
)Cit+(0.0179)Arg+(0.1508)Ile+(-0.0734)Leu;0.857,0.890,0.836,0.776,0.7
73,0.718,0.793,(3.0854)+(0.0294)Ser+(-0.0175)Ala+(-0.0646)Cit+(0.1380
)Ile+(-0.0672)Leu;0.857,0.900,0.890,0.801,0.797,0.750,0.815,(6.0223)+
(0.0410)Thr+(-0.0122)Ala+(-0.0638)Val+(-0.2943)Met+(0.1436)Ile+(0.034
7)Leu;0.857,0.910,0.870,0.830,0.848,0.760,0.839,(3.1052)+(0.0120)Gln+
(-0.0135)Ala+(-0.0435)Val+(-0.2153)Met+(-0.0102)Orn+(0.1397)Ile;0.857
,0.897,0.853,0.791,0.800,0.717,0.805,(4.2897)+(0.0303)Ser+(-0.0146)Al
a+(-0.0342)Cit+(-0.0130)Pro+(-0.0403)Val+(0.1270)Ile;0.857,0.892,0.86
7,0.828,0.832,0.786,0.837,(2.5832)+(0.0139)Gln+(-0.0769)Cit+(-0.0528)
Val+(-0.3151)Met+(0.1570)Ile;0.857,0.895,0.877,0.827,0.828,0.789,0.83
7,(2.6930)+(0.0125)Gln+(-0.0905)Cit+(0.0196)Arg+(-0.0556)Val+(-0.3549
)Met+(0.1713)Ile;0.857,0.895,0.854,0.765,0.766,0.691,0.784,(3.4388)+(
0.0368)Ser+(-0.0683)Asn+(-0.0158)Ala+(-0.0419)Val+(0.1308)Ile+(0.0135
)Trp;0.857,0.906,0.875,0.827,0.842,0.763,0.837,(2.9477)+(0.0100)Gln+(
-0.0140)Ala+(-0.0502)Val+(-0.2536)Met+(0.0138)Lys+(0.1490)Ile;0.857,0
.900,0.870,0.846,0.864,0.790,0.851,(2.5434)+(0.0169)Gln+(-0.0594)Cit+
(-0.0230)Pro+(-0.0575)Val+(-0.2953)Met+(0.1812)Ile;0.857,0.889,0.891,
0.799,0.775,0.780,0.815,(2.6896)+(0.0379)Ser+(-0.0547)Cit+(-0.0483)Va
l+(-0.2479)Met+(0.0250)Orn+(0.1398)Ile;0.856,0.893,0.838,0.768,0.772,
0.691,0.786,(3.4271)+(0.0272)Ser+(-0.0177)Ala+(-0.0373)Val+(0.0008)Or
n+(0.1051)Ile;0.856,0.899,0.836,0.788,0.787,0.726,0.804,(3.3509)+(0.0

284)Ser+(-0.0162)Ala+(-0.0601)Cit+(-0.0084)Pro+(0.1519)Ile+(-0.0706)Leu;0.856,0.898,0.871,0.828,0.824,0.795,0.839,(2.5863)+(0.0143)Gln+(-0.0787)Cit+(0.0496)Tyr+(-0.0626)Val+(-0.4003)Met+(0.1719)Ile;0.856,0.898,0.872,0.810,0.818,0.748,0.821,(5.9124)+(0.0078)Gly+(-0.0121)Ala+(-0.0412)Cit+(-0.0420)Val+(-0.0905)Met+(0.1313)Ile;0.855,0.895,0.843,0.778,0.768,0.725,0.796,(3.0505)+(0.0335)Ser+(-0.0316)Asn+(-0.0166)Ala+(-0.0603)Cit+(0.1406)Ile+(-0.0641)Leu;0.855,0.899,0.849,0.775,0.774,0.706,0.793,(3.8752)+(0.0268)Ser+(-0.0182)Ala+(-0.0618)Cit+(0.0162)Arg+(-0.0393)Val+(0.1173)Ile;0.855,0.896,0.852,0.781,0.781,0.715,0.797,(3.9231)+(0.0304)Ser+(-0.0164)Ala+(-0.0504)Cit+(-0.0319)Val+(0.1240)Ile+(-0.0164)Leu;0.855,0.903,0.887,0.803,0.793,0.760,0.819,(5.7717)+(0.0386)Thr+(-0.0122)Ala+(0.0496)Tyr+(-0.0607)Val+(-0.3491)Met+(0.1793)Ile;0.855,0.900,0.832,0.801,0.826,0.712,0.812,(3.1275)+(0.0128)Ser+(0.0072)Gln+(-0.0164)Ala+(-0.0220)Pro+(-0.0443)Val+(0.1356)Ile;0.855,0.897,0.824,0.809,0.841,0.715,0.817,(3.7322)+(0.0096)Gln+(-0.0155)Ala+(-0.0241)Pro+(-0.0450)Val+(-0.0031)Lys+(0.1382)Ile;0.855,0.904,0.889,0.812,0.818,0.752,0.825,(6.5665)+(0.0343)Thr+(-0.0114)Ala+(-0.0117)Pro+(-0.0524)Val+(-0.2395)Met+(0.1748)Ile;0.854,0.907,0.862,0.827,0.841,0.762,0.837,(3.2724)+(-0.0426)Asn+(0.0120)Gln+(-0.0133)Ala+(-0.0438)Val+(-0.1613)Met+(0.1368)Ile;0.854,0.891,0.895,0.793,0.766,0.775,0.811,(1.8590)+(0.0421)Ser+(0.0528)Tyr+(-0.0584)Val+(-0.3709)Met+(0.1702)Ile;0.854,0.900,0.888,0.802,0.799,0.750,0.816,(6.0654)+(-0.0155)Asn+(0.0360)Thr+(-0.0127)Ala+(-0.0499)Val+(-0.2400)Met+(0.1630)Ile;0.854,0.897,0.869,0.773,0.773,0.702,0.791,(3.2158)+(0.0385)Ser+(-0.0678)Asn+(-0.0149)Ala+(-0.0410)Val+(0.1264)Ile+(0.0079)Phe;0.854,0.900,0.889,0.803,0.802,0.749,0.817,(6.0284)+(0.0359)Thr+(-0.0127)Ala+(-0.0499)Val+(-0.2595)Met+(-0.0029)Orn+(0.1631)Ile;0.854,0.898,0.888,0.806,0.808,0.751,0.819,(5.6950)+(0.0289)Thr+(-0.0136)Ala+(-0.0545)Val+(-0.2696)Met

+(0.0117)Lys+(0.1676)Ile;0.854,0.894,0.845,0.768,0.770,0.694,0.786,(3.4259)+(0.0290)Ser+(-0.0084)His+(-0.0170)Ala+(-0.0353)Val+(0.1023)Ile;0.854,0.893,0.837,0.768,0.773,0.691,0.785,(3.4296)+(0.0274)Ser+(-0.0177)Ala+(-0.0383)Val+(0.1035)Ile+(0.0028)Leu;0.854,0.901,0.824,0.814,0.824,0.753,0.826,(2.5302)+(-0.0860)Asn+(0.0153)Gln+(-0.0185)Ala+(-0.1030)Cit+(0.1517)Ile+(-0.0712)Leu;0.854,0.899,0.848,0.804,0.824,0.722,0.815,(5.9360)+(0.0082)Gly+(-0.0134)Ala+(-0.0388)Cit+(-0.0144)Pro+(-0.0424)Val+(0.1336)Ile;0.854,0.893,0.830,0.802,0.824,0.720,0.812,(3.7050)+(-0.0869)Asn+(0.0102)Gln+(-0.0161)Ala+(-0.0422)Val+(-0.0021)Orn+(0.1273)Ile;0.854,0.891,0.848,0.777,0.779,0.711,0.794,(3.8714)+(0.0303)Ser+(0.0005)His+(-0.0164)Al

a+(-0.0456)Cit+(-0.0381)Val+(0.1122)Ile;0.854,0.894,0.891,0.808,0.793,0.780,0.822,(0.8790)+(0.0322)Ser+(0.0063)Gln+(0.0517)Tyr+(-0.0600)Val+(-0.4205)Met+(0.1715)Ile;0.853,0.895,0.838,0.796,0.809,0.722,0.809,(3.2537)+(0.0140)Ser+(0.0069)Gln+(-0.0181)Ala+(-0.0663)Cit+(-0.0401)Val+(0.1149)Ile;0.853,0.892,0.899,0.796,0.780,0.764,0.812,(2.5496)+(0.0324)Ser+(0.0274)Thr+(-0.0707)Val+(-0.4062)Met+(0.1451)Ile+(0.0461)Leu;0.853,0.910,0.872,0.824,0.835,0.760,0.835,(3.3387)+(0.0097)Gln+(-0.0140)Ala+(0.0136)Arg+(-0.0454)Val+(-0.2275)Met+(0.1422)Ile;0.853,0.900,0.884,0.807,0.813,0.747,0.820,(5.8451)+(0.0314)His+(0.0340)Thr+(-0.0137)Ala+(-0.0592)Val+(-0.3052)Met+(0.1829)Ile;0.853,0.894,0.855,0.781,0.775,0.727,0.798,(3.9165)+(0.0302)Ser+(-0.0157)Ala+(-0.0654)Cit+(-0.0399)Val+(0.0235)Orn+(0.1034)Ile;0.853,0.892,0.846,0.777,0.778,0.710,0.793,(3.8648)+(0.0302)Ser+(-0.0165)Ala+(-0.0456)Cit+(-0.0383)Val+(0.1125)Ile+(0.0023)Trp;0.853,0.894,0.899,0.799,0.779,0.773,0.815,(2.5079)+(0.0358)Ser+(-0.0597)Cit+(0.0250)Arg+(-0.0515)Val+(-0.3189)Met+(0.1728)Ile;0.853,0.894,0.829,0.801,0.809,0.735,0.813,(2.1340)+(0.0131)Ser+(0.0081)Gln+(-0.0194)Ala+(-0.0888)Cit+(0.1439)Ile+(-0.0743)Leu;0

.853,0.902,0.861,0.769,0.764,0.702,0.789,(3.3789)+(0.0378)Ser+(-0.0746)Asn+(-0.0156)Ala+(0.0166)Tyr+(-0.0425)Val+(0.1301)Ile;0.853,0.885,0.891,0.794,0.779,0.762,0.809,(2.1611)+(0.0392)Ser+(-0.0480)Val+(-0.2807)Met+(0.1521)Ile;0.852,0.888,0.897,0.791,0.766,0.770,0.808,(2.2714)+(0.0316)Ser+(0.0231)Thr+(0.0575)Tyr+(-0.0649)Val+(-0.4616)Met+(0.1911)Ile;0.852,0.886,0.889,0.804,0.793,0.773,0.817,(2.5336)+(0.0383)Ser+(0.0215)His+(-0.0411)Cit+(-0.0534)Val+(-0.2934)Met+(0.1659)Ile;0.852,0.878,0.885,0.795,0.787,0.759,0.808,(5.2691)+(0.0342)Thr+(-0.0406)Cit+(-0.0551)Val+(-0.3347)Met+(0.1739)Ile;0.852,0.895,0.844,0.785,0.799,0.705,0.800,(4.0912)+(0.0270)Ser+(-0.0151)Ala+(-0.0157)Pro+(-0.0411)Val+(0.0034)Orn+(0.1262)Ile;0.852,0.892,0.847,0.777,0.778,0.711,0.794,(3.9086)+(0.0303)Ser+(-0.0164)Ala+(-0.0455)Cit+(-0.0377)Val+(0.1120)Ile+(-0.0011)Phe;0.852,0.889,0.816,0.801,0.813,0.734,0.812,(2.7806)+(0.0089)Gln+(-0.0202)Ala+(-0.1039)Cit+(0.0130)Arg+(0.1532)Ile+(-0.0795)Leu

[0363] ［実施例７で探索された線形判別式の一覧（その１）］

以下に、前述した実施例７で探索された線形判別式を列挙する。なお、式の前には、その式について得られた、「バリデーション有りでの膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値」、「バリデーション無しでの膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と健常群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と他癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値」、および「膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値の平均値」を、さらに列挙する。

[0364] 0.889,0.914,0.864,0.834,0.844,0.774,0.844,(5.0859)+(0.0109)Gln+(-0.0171)Ala+(-0.0452)Cit+(-0.0389)Val+(-0.1548)Met+(0.1284)Ile;0.888,0.912,0.883,0.817,0.820,0.758,0.830,(4.2244)+(0.0244)Ser+(0.0058)Gln+(-0.0

176)Ala+(-0.0382)Val+(-0.1788)Met+(0.1319)Ile;0.888,0.907,0.886,0.803,0.798,0.751,0.818,(5.2330)+(0.0342)Ser+(-0.0170)Ala+(-0.0368)Val+(-0.1509)Met+(0.1323)Ile;0.888,0.911,0.905,0.814,0.811,0.763,0.828,(3.9212)+(0.0380)Ser+(-0.0160)Ala+(-0.0426)Val+(-0.1846)Met+(0.1388)Ile+(0.0358)Phe;0.887,0.909,0.852,0.820,0.833,0.752,0.832,(5.2382)+(0.0091)Gln+(-0.0176)Ala+(-0.0397)Val+(-0.1581)Met+(0.1265)Ile;0.886,0.907,0.887,0.805,0.799,0.756,0.821,(5.4168)+(0.0347)Ser+(-0.0165)Ala+(-0.0246)Cit+(-0.0361)Val+(-0.1422)Met+(0.1331)Ile;0.886,0.911,0.887,0.801,0.794,0.747,0.817,(5.4113)+(0.0284)Ser+(0.0124)Thr+(-0.0177)Ala+(-0.0384)Val+(-0.1808)Met+(0.1375)Ile;0.886,0.910,0.894,0.805,0.791,0.763,0.822,(4.9603)+(0.0350)Ser+(-0.0175)Ala+(0.0518)Tyr+(-0.0451)Val+(-0.2283)Met+(0.1452)Ile;0.885,0.909,0.885,0.804,0.800,0.750,0.820,(5.1334)+(0.0336)Ser+(0.0076)His+(-0.0172)Ala+(-0.0387)Val+(-0.1574)Met+(0.1365)Ile;0.885,0.909,0.886,0.800,0.794,0.747,0.816,(5.0407)+(0.0361)Ser+(-0.0168)Ala+(-0.0446)Val+(-0.1632)Met+(0.1200)Ile+(0.0226)Leu;0.885,0.909,0.881,0.799,0.795,0.741,0.815,(5.1188)+(0.0337)Ser+(-0.0174)Ala+(-0.0385)Val+(-0.1546)Met+(0.1360)Ile+(0.0103)Trp;0.885,0.912,0.859,0.836,0.858,0.761,0.844,(5.1053)+(0.0114)Gln+(-0.0154)Ala+(-0.0193)Pro+(-0.0456)Val+(-0.1536)Met+(0.1567)Ile;0.885,0.909,0.839,0.816,0.831,0.742,0.827,(5.6785)+(-0.0836)Asn+(0.0106)Gln+(-0.0184)Ala+(-0.0445)Cit+(-0.0374)Val+(0.1214)Ile;0.885,0.904,0.855,0.779,0.776,0.712,0.797,(5.8722)+(0.0304)Ser+(-0.0707)Asn+(-0.0184)Ala+(-0.0355)Val+(0.1234)Ile;0.884,0.907,0.841,0.819,0.846,0.732,0.828,(5.7402)+(-0.0940)Asn+(0.0119)Gln+(-0.0163)Ala+(-0.0211)Pro+(-0.0449)Val+(0.1544)Ile;0.884,0.908,0.887,0.803,0.799,0.749,0.819,(4.8169)+(0.0329)Ser+(-0.0175)Ala+(-0.0394)Val+(-0.1681)Met+(0.0072)Lys+(0.1378)Ile;0.884,0.908,0.849,0.797,0.804,0.725,0.813,(5.0488)+(0.0206)Ser+(-0.0938)Asn+(0.0061)Gln+(-0.0191)Ala+(-0.0368)Val+(0.1230)Ile;0.884,0.906,0.883,0.801,0.79

7,0.747,0.817,(5.4787)+(0.0353)Ser+(-0.0245)Asn+(-0.0168)Ala+(-0.0367)Val+(-0.1284)Met+(0.1335)Ile;0.883,0.907,0.887,0.799,0.793,0.747,0.816,(5.1392)+(0.0305)Ser+(-0.0182)Ala+(0.0142)Arg+(-0.0382)Val+(-0.1711)Met+(0.1393)Ile;0.883,0.906,0.859,0.793,0.799,0.720,0.808,(6.2281)+(0.0316)Ser+(-0.0654)Asn+(-0.0163)Ala+(-0.0145)Pro+(-0.0397)Val+(0.1469)Ile;0.883,0.906,0.832,0.816,0.839,0.733,0.826,(5.0766)+(0.0094)Gln+(-0.0180)Ala+(-0.0436)Cit+(-0.0191)Pro+(-0.0418)Val+(0.1394)Ile;0.883,0.905,0.888,0.801,0.796,0.748,0.817,(5.2204)+(0.0337)Ser+(-0.0169)Ala+(-0.0373)Val+(-0.1522)Met+(0.0065)Orn+(0.1298)Ile;0.882,0.907,0.886,0.802,0.796,0.751,0.818,(5.3105)+(0.0362)Ser+(-0.0016)Gly+(-0.0168)Ala+(-0.0368)Val+(-0.1527)Met+(0.1323)Ile;0.882,0.910,0.862,0.822,0.825,0.767,0.834,(5.1908)+(0.0087)Gln+(-0.0179)Ala+(0.0430)Tyr+(-0.0465)Val+(-0.2179)Met+(0.1368)Ile;0.881,0.908,0.852,0.820,0.833,0.752,0.831,(5.2315)+(0.0091)Gln+(-0.0176)Ala+(-0.0396)Val+(-0.1582)Met+(-0.0007)Orn+(0.1268)Ile;0.881,0.907,0.884,0.809,0.814,0.747,0.822,(5.5923)+(0.0347)Ser+(-0.0153)Ala+(-0.0130)Pro+(-0.0404)Val+(-0.1363)Met+(0.1521)Ile;0.880,0.907,0.847,0.822,0.837,0.754,0.833,(5.5183)+(-0.0448)Asn+(0.0101)Gln+(-0.0173)Ala+(-0.0398)Val+(-0.1217)Met+(0.1286)Ile;0.880,0.913,0.862,0.830,0.840,0.769,0.841,(3.2318)+(0.0105)Gln+(-0.0278)Pro+(0.0580)Tyr+(-0.0620)Val+(-0.2907)Met+(0.1812)Ile;0.880,0.902,0.861,0.784,0.781,0.721,0.801,(5.9949)+(0.0308)Ser+(-0.0636)Asn+(-0.0180)Ala+(-0.0257)Cit+(-0.0348)Val+(0.1242)Ile;0.879,0.908,0.850,0.819,0.832,0.749,0.830,(5.2157)+(0.0090)Gln+(-0.0177)Ala+(-0.0402)Val+(-0.1589)Met+(0.1276)Ile+(0.0029)Trp;0.879,0.902,0.857,0.780,0.776,0.717,0.798,(5.8969)+(0.0298)Ser+(-0.0750)Asn+(-0.0183)Ala+(-0.0364)Val+(0.0106)Orn+(0.1198)Ile;0.879,0.908,0.853,0.820,0.833,0.753,0.831,(5.1537)+(0.0013)Gly+(0.0087)Gln+(-0.0177)Ala+(-0.0395)Val+(-0.1569)Met+(0.1267)Ile;0.879,0.908,0.853,0.822,0.834,0.756,0.833,(5.2667)+(0.0096)Gln

+(-0.0091)His+(-0.0174)Ala+(-0.0374)Val+(-0.1528)Met+(0.1214)Ile;0.879,0.908,0.869,0.817,0.826,0.755,0.830,(5.4077)+(0.0074)Gln+(0.0149)Thr+(-0.0183)Ala+(-0.0410)Val+(-0.1935)Met+(0.1340)Ile;0.878,0.907,0.851,0.820,0.832,0.754,0.831,(5.1231)+(0.0094)Gln+(-0.0174)Ala+(-0.0455)Val+(-0.1667)Met+(0.1173)Ile+(0.0164)Leu;0.878,0.905,0.865,0.828,0.843,0.765,0.838,(4.5753)+(0.0093)Gln+(-0.0170)Ala+(-0.0433)Val+(-0.1757)Met+(0.1299)Ile+(0.0215)Phe;0.878,0.904,0.854,0.779,0.776,0.711,0.797,(5.8641)+(0.0303)Ser+(-0.0708)Asn+(-0.0185)Ala+(-0.0356)Val+(0.1237)Ile+(0.0008)Trp;0.878,0.907,0.857,0.821,0.834,0.754,0.832,(4.9840)+(0.0086)Gln+(-0.0179)Ala+(-0.0415)Val+(-0.1693)Met+(0.0054)Lys+(0.1307)Ile;0.878,0.899,0.830,0.806,0.825,0.726,0.817,(5.8504)+(-0.0870)Asn+(0.0089)Gln+(-0.0189)Ala+(-0.0382)Val+(0.1196)Ile;0.878,0.902,0.850,0.777,0.774,0.711,0.796,(5.7854)+(0.0316)Ser+(-0.0759)Asn+(-0.0183)Ala+(-0.0410)Val+(0.1144)Ile+(0.0160)Leu;0.878,0.904,0.853,0.778,0.776,0.710,0.797,(5.6760)+(0.0294)Ser+(-0.0768)Asn+(-0.0188)Ala+(-0.0370)Val+(0.0044)Lys+(0.1263)Ile;0.878,0.903,0.852,0.778,0.775,0.712,0.797,(6.0289)+(0.0274)Ser+(-0.0785)Asn+(0.0059)Thr+(-0.0189)Ala+(-0.0361)Val+(0.1252)Ile;0.877,0.894,0.832,0.769,0.771,0.696,0.787,(5.1118)+(0.0222)Ser+(-0.0205)Ala+(-0.0349)Val+(0.1105)Ile;0.877,0.904,0.854,0.780,0.778,0.713,0.798,(5.8368)+(0.0295)Ser+(-0.0708)Asn+(0.0008)Gly+(-0.0185)Ala+(-0.0355)Val+(0.1235)Ile;0.877,0.904,0.866,0.799,0.795,0.745,0.814,(7.4944)+(-0.0188)Ala+(-0.0579)Cit+(0.0387)Arg+(-0.0401)Val+(-0.1376)Met+(0.1463)Ile;0.877,0.907,0.853,0.778,0.771,0.714,0.797,(5.8649)+(0.0297)Ser+(-0.0799)Asn+(-0.0189)Ala+(0.0165)Tyr+(-0.0379)Val+(0.1256)Ile;0.877,0.903,0.852,0.776,0.773,0.709,0.795,(5.9419)+(0.0268)Ser+(-0.0879)Asn+(-0.0197)Ala+(0.0149)Arg+(-0.0369)Val+(0.1308)Ile;0.877,0.902,0.851,0.781,0.781,0.713,0.798,(5.8149)+(0.0297)Ser+(-0.0780)Asn+(0.0099)His+(-0.0187)Ala+(-0.0380)Val+(0.1289)Ile;0.876,0.900,0

.866,0.782,0.781,0.718,0.800,(5.2550)+(0.0318)Ser+(-0.0782)Asn+(-0.0181)Ala+(-0.0383)Val+(0.1256)Ile+(0.0187)Phe;0.876,0.896,0.843,0.779,0.780,0.711,0.796,(5.3713)+(0.0238)Ser+(-0.0197)Ala+(-0.0335)Cit+(-0.0341)Val+(0.1133)Ile;0.876,0.907,0.860,0.817,0.829,0.751,0.829,(5.3043)+(0.0079)Gln+(-0.0184)Ala+(0.0105)Arg+(-0.0404)Val+(-0.1690)Met+(0.1319)Ile;0.876,0.909,0.847,0.812,0.810,0.759,0.826,(8.3155)+(-0.0147)Ala+(-0.0159)Pro+(0.0616)Tyr+(-0.0523)Val+(-0.1569)Met+(0.1622)Ile;0.875,0.902,0.862,0.836,0.855,0.771,0.843,(3.2313)+(0.0124)Gln+(-0.0465)Cit+(-0.0237)Pro+(-0.0505)Val+(-0.2054)Met+(0.1627)Ile;0.875,0.902,0.880,0.843,0.869,0.773,0.848,(2.1201)+(0.0112)Gln+(-0.0255)Pro+(-0.0590)Val+(-0.2410)Met+(0.1706)Ile+(0.0439)Phe;0.874,0.902,0.874,0.804,0.800,0.755,0.819,(7.6755)+(0.0283)Thr+(-0.0175)Ala+(-0.0339)Cit+(-0.0403)Val+(-0.1661)Met+(0.1394)Ile;0.874,0.895,0.832,0.769,0.771,0.697,0.787,(5.1032)+(0.0217)Ser+(-0.0205)Ala+(-0.0352)Val+(0.0041)Orn+(0.1088)Ile;0.874,0.900,0.834,0.809,0.829,0.731,0.820,(5.9023)+(-0.0868)Asn+(0.0091)Gln+(-0.0186)Ala+(-0.0371)Val+(0.1172)Ile+(-0.0071)Trp;0.874,0.895,0.843,0.817,0.842,0.738,0.825,(3.9047)+(-0.1206)Asn+(0.0126)Gln+(-0.0453)Cit+(-0.0265)Pro+(-0.0500)Val+(0.1585)Ile;0.873,0.900,0.847,0.789,0.796,0.716,0.804,(5.7240)+(0.0252)Ser+(-0.0176)Ala+(-0.0265)Cit+(-0.0142)Pro+(-0.0385)Val+(0.1368)Ile;0.873,0.897,0.867,0.799,0.799,0.745,0.813,(7.4475)+(0.0250)Thr+(-0.0179)Ala+(-0.0408)Val+(-0.1687)Met+(0.1367)Ile;0.873,0.901,0.865,0.807,0.818,0.739,0.819,(7.8313)+(0.0255)Thr+(-0.0162)Ala+(-0.0128)Pro+(-0.0444)Val+(-0.1548)Met+(0.1565)Ile;0.873,0.894,0.839,0.769,0.767,0.700,0.787,(5.3222)+(0.0245)Ser+(-0.0152)His+(-0.0197)Ala+(-0.0311)Val+(0.1040)Ile;0.873,0.900,0.851,0.796,0.814,0.712,0.809,(6.6258)+(0.0107)Gly+(-0.0172)Ala+(-0.0355)Cit+(-0.0155)Pro+(-0.0396)Val+(0.1411)Ile;0.873,0.901,0.834,0.805,0.825,0.722,0.816,(5.6692)+(-0.0870)Asn+(0.0027)Gly+(0.0082)Gln+(-0.0191

)Ala+(-0.0380)Val+(0.1205)Ile;0.873,0.902,0.868,0.804,0.798,0.759,0.819,(6.2881)+(0.0100)Gly+(-0.0183)Ala+(0.0616)Tyr+(-0.0473)Val+(-0.1885)Met+(0.1411)Ile;0.873,0.894,0.842,0.782,0.793,0.703,0.797,(5.5535)+(0.0241)Ser+(-0.0181)Ala+(-0.0154)Pro+(-0.0394)Val+(0.1367)Ile;0.872,0.897,0.842,0.784,0.794,0.706,0.799,(5.7455)+(0.0253)Ser+(-0.0177)Ala+(-0.0157)Pro+(-0.0385)Val+(-0.0031)Lys+(0.1358)Ile;0.872,0.898,0.842,0.785,0.795,0.707,0.800,(5.5167)+(0.0259)Ser+(-0.0027)Thr+(-0.0178)Ala+(-0.0153)Pro+(-0.0391)Val+(0.1362)Ile;0.872,0.894,0.832,0.769,0.771,0.696,0.787,(5.1178)+(0.0221)Ser+(-0.0205)Ala+(-0.0347)Val+(0.1109)Ile+(-0.0007)Leu;0.872,0.894,0.837,0.772,0.773,0.702,0.790,(5.1793)+(0.0226)Ser+(-0.0203)Ala+(-0.0339)Val+(0.1087)Ile+(-0.0059)Trp;0.872,0.902,0.818,0.819,0.839,0.744,0.828,(4.3698)+(0.0092)Gln+(-0.0190)Ala+(-0.0647)Cit+(-0.0133)Pro+(0.1499)Ile+(-0.0727)Leu;0.872,0.895,0.835,0.769,0.772,0.695,0.787,(4.9662)+(0.0223)Ser+(-0.0205)Ala+(-0.0355)Val+(0.1107)Ile+(0.0039)Phe;0.872,0.898,0.827,0.803,0.824,0.721,0.814,(5.7877)+(-0.0918)Asn+(0.0092)Gln+(-0.0188)Ala+(-0.0430)Val+(0.1119)Ile+(0.0135)Leu;0.872,0.900,0.847,0.778,0.775,0.714,0.796,(5.4824)+(0.0251)Ser+(-0.0091)His+(-0.0193)Ala+(-0.0317)Cit+(-0.0319)Val+(0.1092)Ile;0.871,0.899,0.835,0.807,0.826,0.728,0.818,(5.5960)+(-0.0901)Asn+(0.0090)Gln+(-0.0187)Ala+(-0.0396)Val+(0.1206)Ile+(0.0090)Phe;0.871,0.898,0.831,0.800,0.816,0.722,0.812,(6.0160)+(-0.0970)Asn+(0.0079)Gln+(0.0082)Thr+(-0.0195)Ala+(-0.0388)Val+(0.1228)Ile;0.871,0.897,0.830,0.805,0.824,0.727,0.816,(5.8935)+(-0.0879)Asn+(0.0087)Gln+(-0.0188)Ala+(-0.0386)Val+(0.0043)Orn+(0.1182)Ile;0.871,0.890,0.849,0.816,0.845,0.734,0.823,(3.2521)+(-0.1343)Asn+(0.0113)Gln+(-0.0284)Pro+(-0.0560)Val+(0.1630)Ile+(0.0298)Phe;0.871,0.895,0.833,0.771,0.772,0.699,0.789,(5.2033)+(0.0227)Ser+(-0.0203)Ala+(-0.0344)Val+(-0.0015)Lys+(0.1099)Ile;0.871,0.893,0.829,0.803,0.829,0.716,0.813,(5.2203)+(0.0076)Gln+(-0.01

85)Ala+(-0.0199)Pro+(-0.0428)Val+(0.1384)Ile;0.871,0.894,0.830,0.769,0.771,0.695,0.786,(5.0943)+(0.0213)Ser+(-0.0208)Ala+(0.0023)Arg+(-0.0351)Val+(0.1112)Ile;0.871,0.898,0.847,0.796,0.815,0.713,0.809,(7.3141)+(-0.0436)Asn+(0.0099)Gly+(-0.0163)Ala+(-0.0160)Pro+(-0.0412)Val+(0.1469)Ile;0.871,0.897,0.846,0.782,0.776,0.724,0.799,(5.4563)+(0.0223)Ser+(-0.0192)Ala+(-0.0504)Cit+
(-0.0356)Val+(0.0221)Orn+(0.1055)Ile;0.871,0.899,0.836,0.789,0.800,0.711,0.803,(8.3595)+(-0.0678)Asn+(0.0198)Thr+(-0.0170)Ala+(-0.0144)Pro+(-0.0429)Val+(0.1487)Ile;0.871,0.895,0.837,0.771,0.775,0.697,0.789,(5.0555)+(0.0252)Ser+(-0.0045)Thr+(-0.0200)Ala+(-0.0344)Val+(0.1102)Ile;0.871,0.900,0.835,0.798,0.813,0.721,0.811,(5.9904)+(-0.0972)Asn+(0.0078)Gln+(-0.0198)Ala+(0.0117)Arg+(-0.0390)Val+(0.1257)Ile;0.871,0.896,0.839,0.795,0.816,0.710,0.807,(4.6855)+(0.0132)Ser+(0.0055)Gln+(-0.0188)Ala+(-0.0190)Pro+(-0.0415)Val+(0.1386)Ile;0.870,0.893,0.828,0.775,0.783,0.696,0.791,(4.6677)+(0.0170)Ser+(0.0025)Gln+(-0.0211)Ala+(-0.0354)Val+(0.1086)Ile;0.870,0.896,0.845,0.781,0.782,0.714,0.797,(5.4134)+(0.0241)Ser+(-0.0195)Ala+(-0.0334)Cit+(-0.0335)Val+(0.1121)Ile+(-0.0038)Trp;0.870,0.899,0.831,0.806,0.825,0.728,0.817,(5.8480)+(-0.0845)Asn+(0.0091)Gln+(-0.0044)His+(-0.0188)Ala+(-0.0371)Val+(0.1171)Ile;0.870,0.896,0.846,0.789,0.798,0.714,0.803,(5.6854)+(0.0250)Ser+(-0.0176)Ala+(-0.0157)Pro+(-0.0377)Val+(0.1335)Ile+(-0.0111)Trp;0.870,0.898,0.827,0.790,0.790,0.728,0.805,(4.9798)+(0.0245)Ser+(-0.0186)Ala+(-0.0457)Cit+(-0.0089)Pro+(0.1426)Ile+(-0.0641)Leu;0.870,0.900,0.840,0.826,0.838,0.770,0.836,(4.3138)+(0.0102)Gln+(-0.0184)Ala+(-0.0642)Cit+(-0.1069)Met+(0.1371)Ile+(-0.0659)Leu;0.870,0.898,0.818,0.814,0.824,0.754,0.825,(4.7702)+(-0.0547)Asn+(0.0099)Gln+(-0.0193)Ala+(-0.0636)Cit+(0.1331)Ile+(-0.0653)Leu;0.870,0.897,0.850,0.791,0.798,0.721,0.805,(7.0384)+(-0.0404)Asn+(0.0099)Gly+(-0.0180)Ala+(-0.0363)Cit+(-0.0356)Va

l+(0.1222)Ile;0.870,0.901,0.866,0.804,0.794,0.762,0.819,(7.2269)+(0.0258)Thr+(-0.0184)Ala+(0.0510)Tyr+(-0.0490)Val+(-0.2458)Met+(0.1496)Ile;0.870,0.896,0.842,0.782,0.793,0.703,0.797,(5.5448)+(0.0236)Ser+(-0.0181)Ala+(-0.0155)Pro+(-0.0399)Val+(0.0055)Orn+(0.1345)Ile;0.870,0.894,0.846,0.772,0.772,0.704,0.790,(5.3689)+(0.0186)Ser+(-0.0212)Ala+(-0.0488)Cit+(0.0156)Arg+(-0.0351)Val+(0.1190)Ile;0.869,0.895,0.833,0.770,0.772,0.696,0.788,(5.0899)+(0.0216)Ser+(0.0005)Gly+(-0.0206)Ala+(-0.0349)Val+(0.1106)Ile;0.869,0.901,0.851,0.797,0.788,0.750,0.813,(7.1204)+(-0.0191)Ala+(0.0259)Arg+(0.0537)Tyr+(-0.0490)Val+(-0.2142)Met+(0.1507)Ile

[0365] ［実施例７で探索されたロジスティック回帰式の一覧（その２）］

以下に、前述した実施例７で探索されたロジスティック回帰式を列挙する。なお、式の前には、その式について得られた、「バリデーション有りでの膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値」、「バリデーション無しでの膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と健常群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と他癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値」、および「膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値の平均値」を、さらに列挙する。

[0366] 0.787,0.856,0.911,0.807,0.794,0.798,0.816,(-0.4061)+(0.0399)Ser+(-0.2141)Met+(0.1298)Ile+(-0.0658)Leu+(0.0402)Phe+(-0.0539)Trp;0.845,0.887,0.907,0.802,0.793,0.768,0.816,(1.4919)+(0.0330)Ser+(0.0236)Thr+(-0.0587)Val+(-0.3796)Met+(0.1721)Ile+(0.0320)Phe;0.766,0.842,0.907,0.810,0.786,0.825,0.818,(2.7409)+(0.0412)Ser+(-0.0481)His+(0.0105)Thr+(-0.1506)Met+(0.0196)Phe+(-0.0683)Trp;0.872,0.909,0.906,0.801,0.796,0.747,0.817,(3.3965)+(0.0311)Ser+(0.0246)Thr+(-0.0128)Ala+(-0.0466)Val+(-0.2635)Met+(0.1591)Ile;0.847,0.888,0.906,0.802,0.791,0.769,0.816,(1.456

6)+(0.0427)Ser+(-0.0507)Val+(-0.2852)Met+(0.1486)Ile+(0.0258)Phe+(-0.0079)Trp;0.870,0.913,0.906,0.806,0.790,0.766,0.823,(2.4936)+(0.0432)Ser+(-0.0118)Ala+(0.0462)Tyr+(-0.0485)Val+(-0.2565)Met+(0.1511)Ile;0.840,0.884,0.906,0.804,0.794,0.774,0.817,(0.1031)+(0.0419)Ser+(-0.0611)Val+(-0.3616)Met+(0.0157)Lys+(0.1732)Ile+(0.0341)Phe;0.837,0.890,0.905,0.800,0.788,0.766,0.814,(1.1161)+(0.0402)Ser+(0.0132)Arg+(-0.0550)Val+(-0.3329)Met+(0.1633)Ile+(0.0280)Phe;0.859,0.890,0.905,0.800,0.783,0.774,0.816,(2.8315)+(0.0312)Ser+(0.0223)Thr+(-0.0416)Cit+(-0.0522)Val+(-0.3341)Met+(0.1697)Ile;0.840,0.887,0.904,0.798,0.786,0.765,0.813,(2.5575)+(0.0314)Ser+(0.0204)Thr+(-0.0510)Val+(-0.3475)Met+(0.1657)Ile+(-0.0106)Trp;0.871,0.909,0.904,0.809,0.804,0.758,0.824,(2.5705)+(0.0423)Ser+(-0.0115)Ala+(-0.0427)Val+(-0.1878)Met+(0.1360)Ile+(0.0134)Phe;0.769,0.845,0.904,0.837,0.833,0.839,0.839,(3.9929)+(0.0400)Ser+(0.0086)Thr+(-0.0166)Val+(-0.1972)Met+(0.0304)Phe+(-0.0775)Trp;0.757,0.832,0.903,0.846,0.848,0.850,0.843,(0.6788)+(0.0326)Ser+(0.0074)Gln+(-0.2186)Met+(0.0155)Phe+(-0.1029)Trp;0.768,0.840,0.903,0.797,0.769,0.813,0.807,(0.1065)+(0.0395)Ser+(0.0074)Thr+(-0.2230)Met+(0.0523)Ile+(0.0032)Phe+(-0.0885)Trp;0.783,0.851,0.903,0.839,0.834,0.840,0.842,(0.7685)+(0.0313)Ser+(0.0107)Gln+(-0.0649)His+(-0.1807)Met+(0.0214)Phe+(-0.0676)Trp;0.865,0.912,0.902,0.802,0.793,0.753,0.819,(2.8640)+(0.0372)Ser+(-0.0135)Ala+(0.0205)Arg+(-0.0437)Val+(-0.2293)Met+(0.1532)Ile;0.764,0.844,0.902,0.797,0.769,0.809,0.807,(0.2468)+(0.0393)Ser+(0.0081)Thr+(-0.2243)Met+(-0.0048)Orn+(0.0562)Ile+(-0.0875)Trp;0.753,0.826,0.902,0.826,0.816,0.838,0.827,(2.3570)+(0.0391)Ser+(0.0053)Thr+(-0.1808)Met+(0.0138)Phe+(-0.0941)Trp;0.849,0.893,0.902,0.798,0.774,0.778,0.815,(1.4618)+(0.0434)Ser+(0.0469)Tyr+(-0.0595)Val+(-0.3666)Met+(0.1679)Ile+(0.0143)Phe;0.845,0.888,0.902,0.818,0.821,0.776,0.828,(0.1275)+(0.0321)Ser+(0.0069)Gln+(-0.0548)Val+(-0.3477)Met+(0.1541)Ile+(0.0292

)Phe;0.750,0.829,0.902,0.829,0.820,0.841,0.830,(2.7046)+(0.0394)Ser+(-0.0334)Asn+(0.0075)Thr+(-0.1510)Met+(0.0156)Phe+(-0.0941)Trp;0.849,0.885,0.901,0.799,0.788,0.765,0.813,(1.3699)+(0.0422)Ser+(-0.0521)Val+(-0.2912)Met+(0.1519)Ile+(0.0255)Phe;0.845,0.894,0.901,0.791,0.772,0.759,0.808,(3.2528)+(0.0397)Ser+(-0.0098)Gly+(0.0290)Thr+(-0.0550)Val+(-0.3919)Met+(0.1778)Ile;0.845,0.888,0.901,0.797,0.785,0.764,0.812,(1.4189)+(0.0428)Ser+(-0.0176)Asn+(-0.0520)Val+(-0.2679)Met+(0.1528)Ile+(0.0258)Phe;0.778,0.846,0.901,0.784,0.746,0.800,0.797,(1.0109)+(0.0400)Ser+(-0.0431)His+(0.0099)Thr+(-0.1847)Met+(0.0516)Ile+(-0.0627)Trp;0.776,0.840,0.901,0.796,0.767,0.810,0.806,(0.2150)+(0.0392)Ser+(0.0071)Thr+(-0.2212)Met+(0.0532)Ile+(-0.0873)Trp;0.766,0.844,0.901,0.813,0.795,0.819,0.819,(0.8719)+(0.0382)Ser+(0.0063)Thr+(-0.0121)Pro+(-0.1778)Met+(0.0598)Ile+(-0.0914)Trp;0.755,0.841,0.901,0.796,0.768,0.809,0.806,(0.2359)+(0.0392)Ser+(0.0070)Thr+(-0.0015)Tyr+(-0.2193)Met+(0.0533)Ile+(-0.0869)Trp;0.842,0.885,0.900,0.799,0.788,0.765,0.813,(1.3987)+(0.0418)Ser+(-0.0522)Val+(-0.2913)Met+(0.0033)Orn+(0.1505)Ile+(0.0246)Phe;0.840,0.885,0.900,0.803,0.791,0.774,0.817,(1.5211)+(0.0390)Ser+(-0.0520)Val+(-0.3244)Met+(0.0134)Lys+(0.1634)Ile+(-0.0146)Trp;0.838,0.888,0.900,0.799,0.784,0.768,0.814,(1.7262)+(0.0473)Ser+(-0.0041)Gly+(-0.0517)Val+(-0.2911)Met+(0.1510)Ile+(0.0239)Phe;0.765,0.836,0.900,0.798,0.773,0.812,0.807,(0.0541)+(0.0418)Ser+(-0.2012)Met+(0.0007)Lys+(0.0512)Ile+(0.0015)Phe+(-0.0851)Trp;0.755,0.836,0.900,0.798,0.770,0.814,0.807,(-0.0500)+(0.0412)Ser+(0.0061)Arg+(-0.2132)Met+(0.0536)Ile+(0.0022)Phe+(-0.0885)Trp;0.852,0.887,0.900,0.803,0.791,0.774,0.817,(1.7457)+(0.0427)Ser+(-0.0341)Cit+(-0.0509)Val+(-0.2679)Met+(0.1506)Ile+(0.0246)Phe;0.768,0.839,0.900,0.837,0.836,0.838,0.837,(3.7251)+(0.0418)Ser+(-0.0166)Val+(-0.1762)Met+(0.0031)Lys+(0.0287)Phe+(-0.0760)Trp;0.765,0.841,0.900,0.796,0.768,0.809,0.806,(0.3181)+(0.0390)Ser+(0

.0078)Thr+(-0.2195)Met+(-0.0013)Lys+(0.0529)Ile+(-0.0861)Trp;0.753,0.837,0.900,0.798,0.773,0.811,0.807,(0.1262)+(0.0418)Ser+(-0.0031)Tyr+(-0.1953)Met+(0.0511)Ile+(0.0022)Phe+(-0.0836)Trp;0.767,0.849,0.900,0.815,0.800,0.817,0.822,(0.7019)+(0.0407)Ser+(-0.0123)Pro+(-0.1573)Met+(0.0573)Ile+(0.0038)Phe+(-0.0896)Trp;0.783,0.846,0.899,0.785,0.748,0.803,0.799,(0.7119)+(0.0440)Ser+(-0.0418)His+(-0.1561)Met+(0.0480)Ile+(0.0049)Phe+(-0.0595)Trp;0.832,0.891,0.899,0.796,0.784,0.759,0.811,(1.8597)+(0.0323)Ser+(0.0144)Thr+(-0.0557)Val+(-0.3670)Met+(0.0086)Lys+(0.1750)Ile;0.853,0.894,0.899,0.799,0.779,0.773,0.815,(2.5079)+(0.0358)Ser+(-0.0597)Cit+(0.0250)Arg+(-0.0515)Val+(-0.3189)Met+(0.1728)Ile;0.763,0.836,0.899,0.808,0.783,0.828,0.816,(2.3381)+(0.0437)Ser+(-0.0492)His+(-0.1301)Met+(0.0054)Lys+(0.0179)Phe+(-0.0679)Trp;0.753,0.838,0.899,0.797,0.770,0.812,0.807,(0.0362)+(0.0413)Ser+(0.0071)Arg+(-0.2149)Met+(-0.0048)Orn+(0.0575)Ile+(-0.0880)Trp;0.831,0.888,0.899,0.793,0.780,0.757,0.808,(2.3644)+(0.0309)Ser+(0.0180)Thr+(0.0035)Arg+(-0.0531)Val+(-0.3565)Met+(0.1710)Ile;0.853,0.892,0.899,0.796,0.780,0.764,0.812,(2.5496)+(0.0324)Ser+(0.0274)Thr+(-0.0707)Val+(-0.4062)Met+(0.1451)Ile+(0.0461)Leu;0.851,0.893,0.899,0.797,0.770,0.782,0.815,(1.9332)+(0.0425)Ser+(0.0529)Tyr+(-0.0570)Val+(-0.3650)Met+(0.1672)Ile+(-0.0077)Trp;0.841,0.887,0.899,0.798,0.786,0.764,0.812,(1.5611)+(0.0426)Ser+(-0.0554)Val+(-0.2950)Met+(0.1435)Ile+(0.0122)Leu+(0.0198)Phe;0.772,0.836,0.899,0.797,0.771,0.811,0.806,(0.1129)+(0.0416)Ser+(-0.2006)Met+(0.0006)Lys+(0.0516)Ile+(-0.0846)Trp;0.763,0.837,0.899,0.797,0.769,0.812,0.806,(0.0333)+(0.0410)Ser+(0.0059)Arg+(-0.2123)Met+(0.0542)Ile+(-0.0877)Trp;0.754,0.839,0.899,0.798,0.770,0.813,0.807,(0.0984)+(0.0410)Ser+(0.0065)Arg+(-0.2105)Met+(-0.0010)Lys+(0.0542)Ile+(-0.0868)Trp;0.792,0.851,0.899,0.803,0.767,0.826,0.814,(0.8107)+(0.0383)Ser+(0.0108)Thr+(-0.0446)Cit+(-0.2057)Met+(0.0551)Ile+(-0.0874)Trp;0.833,0.882

,0.899,0.820,0.798,0.815,0.832,(4.9562)+(0.0414)Ser+(0.0278)Thr+(-0.0638)Val+(-0.3446)Met+(0.0994)Leu+(-0.0711)Trp;0.825,0.886,0.899,0.799,0.785,0.770,0.814,(2.1351)+(0.0379)Ser+(0.0123)Arg+(-0.0482)Val+(-0.3089)Met+(0.1579)Ile+(-0.0124)Trp;0.782,0.857,0.899,0.795,0.771,0.795,0.807,(0.5033)+(0.0376)Ser+(0.0252)Tyr+(-0.2367)Met+(0.1213)Ile+(-0.0531)Leu+(-0.0562)Trp;0.766,0.838,0.899,0.800,0.775,0.812,0.808,(0.1040)+(0.0421)Ser+(-0.1990)Met+(-0.0026)Orn+(0.0523)Ile+(0.0020)Phe+(-0.0842)Trp;0.842,0.896,0.899,0.811,0.813,0.759,0.823,(2.2023)+(0.0398)Ser+(-0.0153)Pro+(-0.0542)Val+(-0.2462)Met+(0.1642)Ile+(0.0285)Phe;0.838,0.886,0.898,0.793,0.780,0.758,0.808,(2.4345)+(0.0307)Ser+(0.0196)Thr+(-0.0529)Val+(-0.3523)Met+(0.0013)Orn+(0.1689)Ile;0.779,0.836,0.898,0.799,0.773,0.812,0.807,(0.1169)+(0.0418)Ser+(-0.1989)Met+(0.0510)Ile+(0.0013)Phe+(-0.0842)Trp;0.760,0.838,0.898,0.809,0.786,0.825,0.817,(2.6855)+(0.0431)Ser+(-0.0468)His+(0.0046)Arg+(-0.1275)Met+(0.0172)Phe+(-0.0652)Trp;0.755,0.836,0.898,0.797,0.772,0.810,0.806,(0.1422)+(0.0416)Ser+(-0.0019)Tyr+(-0.1981)Met+(0.0006)Lys+(0.0518)Ile+(-0.0840)Trp;0.847,0.887,0.898,0.793,0.781,0.757,0.808,(2.4351)+(0.0308)Ser+(0.0198)Thr+(-0.0529)Val+(-0.3530)Met+(0.1697)Ile;0.839,0.883,0.898,0.802,0.795,0.767,0.815,(1.3018)+(0.0415)Ser+(0.0135)His+(-0.0562)Val+(-0.3154)Met+(0.1609)Ile+(0.0259)Phe;0.830,0.886,0.898,0.795,0.783,0.761,0.810,(1.4446)+(0.0374)Ser+(0.0048)Arg+(-0.0545)Val+(-0.3403)Met+(0.0111)Lys+(0.1701)Ile;0.769,0.837,0.898,0.798,0.773,0.810,0.807,(0.1887)+(0.0416)Ser+(-0.0020)Tyr+(-0.1962)Met+(0.0517)Ile+(-0.0832)Trp;0.761,0.826,0.898,0.826,0.819,0.835,0.827,(2.3360)+(0.0405)Ser+(-0.1633)Met+(0.0123)Phe+(-0.0909)Trp;0.753,0.838,0.898,0.796,0.768,0.811,0.805,(0.1271)+(0.0394)Ser+(0.0055)Thr+(0.0036)Arg+(-0.2243)Met+(0.0544)Ile+(-0.0889)Trp;0.770,0.845,0.898,0.783,0.743,0.804,0.797,(0.7499)+(0.0421)Ser+(-0.0450)His+(0.0103)Arg+(-0.1751)Met+(0.0545)Ile+(-0.063

4)Trp;0.872,0.909,0.898,0.804,0.798,0.752,0.820,(1.9444)+(0.0409)Ser+(-0.0141)Ala+(-0.0498)Val+(-0.2446)Met+(0.0197)Lys+(0.1613)Ile;0.787,0.851,0.898,0.803,0.765,0.830,0.815,(0.6431)+(0.0391)Ser+(-0.0590)Cit+(0.0211)Arg+(-0.2103)Met+(0.0617)Ile+(-0.0960)Trp;0.783,0.851,0.898,0.796,0.779,0.788,0.806,(0.7806)+(0.0359)Ser+(0.0029)Thr+(-0.2110)Met+(0.1124)Ile+(-0.0447)Leu+(-0.0553)Trp;0.751,0.826,0.898,0.826,0.820,0.836,0.827,(2.3934)+(0.0405)Ser+(-0.1612)Met+(-0.0008)Lys+(0.0120)Phe+(-0.0899)Trp;0.767,0.837,0.898,0.793,0.761,0.813,0.804,(0.7266)+(0.0451)Ser+(-0.0064)Gly+(0.0122)Thr+(-0.2369)Met+(0.0535)Ile+(-0.0895)Trp;0.755,0.850,0.898,0.814,0.797,0.816,0.821,(0.7671)+(0.0404)Ser+(-0.0125)Pro+(0.0052)Tyr+(-0.1625)Met+(0.0579)Ile+(-0.0898)Trp;0.771,0.843,0.898,0.838,0.837,0.835,0.838,(4.0479)+(0.0425)Ser+(-0.0215)Asn+(-0.0157)Val+(-0.1429)Met+(0.0277)Phe+(-0.0715)Trp;0.787,0.838,0.898,0.798,0.773,0.811,0.807,(0.1611)+(0.0417)Ser+(-0.1986)Met+(0.0514)Ile+(-0.0838)Trp;0.765,0.840,0.898,0.819,0.808,0.822,0.823,(-1.3681)+(0.0342)Ser+(0.0072)Gln+(-0.2506)Met+(0.0486)Ile+(0.0053)Phe+(-0.0963)Trp;0.762,0.838,0.898,0.798,0.773,0.811,0.807,(0.1189)+(0.0419)Ser+(-0.2007)Met+(-0.0023)Orn+(0.0007)Lys+(0.0530)Ile+(-0.0844)Trp;0.762,0.845,0.898,0.811,0.794,0.815,0.818,(0.7179)+(0.0391)Ser+(0.0082)Arg+(-0.0125)Pro+(-0.1741)Met+(0.0620)Ile+(-0.0939)Trp;0.846,0.894,0.898,0.794,0.764,0.778,0.812,(0.8674)+(0.0411)Ser+(0.0658)Tyr+(-0.0692)Val+(-0.4644)Met+(0.0167)Lys+(0.1956)Ile;0.772,0.846,0.898,0.783,0.741,0.807,0.798,(0.7633)+(0.0441)Ser+(-0.0443)His+(0.0124)Tyr+(-0.1685)Met+(0.0480)Ile+(-0.0602)Trp;0.774,0.846,0.898,0.819,0.810,0.816,0.824,(3.7367)+(0.0442)Ser+(-0.0356)His+(-0.0123)Val+(-0.1301)Met+(0.0268)Phe+(-0.0542)Trp;0.751,0.826,0.897,0.825,0.818,0.835,0.826,(2.2889)+(0.0405)Ser+(-0.1639)Met+(0.0011)Leu+(0.0113)Phe+(-0.0913)Trp;0.766,0.836,0.897,0.807,0.786,0.821,0.814,(2.6417)+(0.0433)Ser+(0.0083)Asn+(-0.0464)H

is+(-0.1277)Met+(0.0158)Phe+(
-0.0625)Trp;0.761,0.826,0.897,0.829,0.823,0.838,0.829,(2.6077)+(0.041
1)Ser+(-0.0261)Asn+(-0.1345)Met+(0.0131)Phe+(-0.0898)Trp;0.832,0.892,
0.897,0.801,0.797,0.756,0.815,(3.3038)+(0.0284)Ser+(0.0196)Thr+(-0.01
47)Pro+(-0.0547)Val+(-0.3097)Met+(0.1831)Ile;0.782,0.850,0.897,0.796,
0.779,0.789,0.806,(0.5053)+(0.0367)Ser+(-0.2127)Met+(0.0039)Lys+(0.11
58)Ile+(-0.0473)Leu+(-0.0569)Trp;0.776,0.844,0.897,0.782,0.744,0.799,
0.796,(0.8779)+(0.0432)Ser+(-0.0419)His+(-0.1553)Met+(0.0024)Orn+(0.0
482)Ile+(-0.0582)Trp;0.770,0.837,0.897,0.809,0.788,0.823,0.816,(2.710
2)+(0.0435)Ser+(-0.0451)His+(-0.1198)Met+(0.0160)Phe+(-0.0629)Trp;0.8
52,0.889,0.897,0.801,0.786,0.774,0.816,(1.7797)+(0.0393)Ser+(-0.0363)
Cit+(-0.0537)Val+(-0.3102)Met+(0.0125)Lys+(0.1682)Ile;0.766,0.842,0.8
97,0.829,0.809,0.849,0.833,(2.8945)+(0.0394)Ser+(0.0095)Thr+(-0.0428)
Cit+(-0.1675)Met+(0.0161)Phe+(-0.0970)Trp;0.757,0.838,0.897,0.798,0.7
73,0.810,0.807,(0.1935)+(0.0418)Ser+(-0.0016)Tyr+(-0.1966)Met+(-0.002
1)Orn+(0.0528)Ile+(-0.0832)Trp;0.769,0.842,0.897,0.796,0.770,0.806,0.
806,(0.5416)+(0.0393)Ser+(-0.0291)Asn+(0.0084)Thr+(-0.1912)Met+(0.053
8)Ile+(-0.0869)Trp;0.871,0.910,0.897,0.808,0.801,0.761,0.824,(3.3274)
+(0.0409)Ser+(-0.0117)Ala+(-0.0293)Cit+(-0.0398)Val+(-0.1603)Met+(0.1
354)Ile;0.859,0.895,0.897,0.795,0.765,0.780,0.814,(2.3171)+(0.0426)Se
r+(-0.0369)Cit+(0.0544)Tyr+(-0.0577)Val+(-0.3487)Met+(0.1682)Ile;0.76
7,0.848,0.897,0.812,0.798,0.813,0.819,(0.8303)+(0.0401)Ser+(-0.0123)P
ro+(-0.1569)Met+(0.0005)Orn+(0.0582)Ile+(-0.0883)Trp;0.852,0.888,0.89
7,0.791,0.766,0.770,0.808,(2.2714)+(0.0316)Ser+(0.0231)Thr+(0.0575)Ty
r+(-0.0649)Val+(-0.4616)Met+(0.1911)Ile;0.848,0.884,0.897,0.795,0.783
,0.762,0.810,(1.4167)+(0.0382)Ser+(-0.0543)Val+(-0.3324)Met+(0.0125)L
ys+(0.1682)Ile;0.870,0.906,0.897,0.803,0.796,0.754,0.819,(3.0382)+(0.
0402)Ser+(-0.0120)Ala+(-0.0407)Val+(-0.1802)Met+(0.0043)Orn+(0.1345)I

le;0.775,0.848,0.897,0.812,0.797,0.812,0.819,(0.8305)+(0.0402)Ser+(-0.0122)Pro+(-0.1568)Met+(0.0584)Ile+(-0.0883)Trp;0.767,0.849,0.897,0.813,0.800,0.810,0.820,(0.9285)+(0.0402)Ser+(-0.0123)Pro+(-0.1530)Met+(-0.0012)Lys+(0.0582)Ile+(-0.0868)Trp

[0367] ［実施例７で探索された線形判別式の一覧（その２）］

以下に、前述した実施例７で探索された線形判別式を列挙する。なお、式の前には、その式について得られた、「バリデーション有りでの膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値」、「バリデーション無しでの膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と健常群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と他癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値」、および「膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値の平均値」を、さらに列挙する。

[0368] 0.859,0.885,0.925,0.819,0.809,0.795,0.830,(1.6394)+(0.0387)Ser+(-0.0455)Val+(-0.2545)Met+(0.1283)Ile+(0.0546)Phe+(-0.0299)Trp;0.819,0.855,0.925,0.822,0.810,0.820,0.829,(0.8073)+(0.0364)Ser+(-0.2030)Met+(0.1178)Ile+(-0.0647)Leu+(0.0578)Phe+(-0.0648)Trp;0.861,0.892,0.917,0.807,0.788,0.786,0.822,(1.2830)+(0.0364)Ser+(0.0328)Tyr+(-0.0547)Val+(-0.3122)Met+(0.1451)Ile+(0.0444)Phe;0.855,0.884,0.917,0.805,0.796,0.772,0.817,(1.1869)+(0.0330)Ser+(0.0086)Thr+(-0.0523)Val+(-0.2940)Met+(0.1427)Ile+(0.0555)Phe;0.847,0.881,0.916,0.804,0.796,0.772,0.816,(1.1400)+(0.0359)Ser+(0.0037)Arg+(-0.0511)Val+(-0.2757)Met+(0.1404)Ile+(0.0531)Phe;0.852,0.882,0.915,0.816,0.818,0.776,0.825,(0.5185)+(0.0298)Ser+(0.0040)Gln+(-0.0515)Val+(-0.2886)Met+(0.1379)Ile+(0.0511)Phe;0.855,0.885,0.914,0.801,0.787,0.774,0.815,(1.4582)+(0.0381)Ser+(-0.0133)His+(-0.0470)Val+(-0.2554)Met+(0.1313)Ile+(0.0525)Phe;0.781,0.829,0.914,0.854,0.857,0.865,0.850,(1.6910)+(0.0271)Ser+(0.0058)Gln+(-0.1824)Met+

(-0.0027)Leu+(0.0278)Phe+(-0.0977)Trp;0.863,0.888,0.913,0.802,0.792,0.768,0.816,(1.6900)+(0.0388)Ser+(-0.0430)Asn+(-0.0504)Val+(-0.2279)Met+(0.1409)Ile+(0.0530)Phe;0.851,0.882,0.913,0.805,0.798,0.772,0.817,(0.8294)+(0.0361)Ser+(-0.0528)Val+(-0.2835)Met+(0.0048)Lys+(0.1426)Ile+(0.0546)Phe;0.779,0.823,0.913,0.835,0.826,0.854,0.835,(2.6420)+(0.0366)Ser+(0.0049)Tyr+(-0.1614)Met+(0.0250)Phe+(-0.0903)Trp;0.856,0.879,0.913,0.802,0.794,0.771,0.815,(1.2512)+(0.0368)Ser+(-0.0505)Val+(-0.2680)Met+(0.1384)Ile+(0.0518)Phe;0.776,0.824,0.913,0.834,0.827,0.849,0.833,(2.6819)+(0.0357)Ser+(-0.1556)Met+(0.0061)Orn+(-0.0028)Leu+(0.0262)Phe+(-0.0876)Trp;0.862,0.887,0.913,0.806,0.794,0.777,0.819,(1.5875)+(0.0375)Ser+(-0.0335)Cit+(-0.0493)Val+(-0.2533)Met+(0.1395)Ile+(0.0515)Phe;0.793,0.821,0.912,0.834,0.828,0.850,0.833,(2.6509)+(0.0366)Ser+(-0.1555)Met+(0.0265)Phe+(-0.0891)Trp;0.782,0.823,0.912,0.831,0.825,0.845,0.831,(2.5358)+(0.0361)Ser+(-0.1575)Met+(0.0056)Orn+(0.0244)Phe+(-0.0884)Trp;0.773,0.822,0.912,0.837,0.829,0.855,0.836,(2.7656)+(0.0363)Ser+(0.0057)Tyr+(-0.1606)Met+(-0.0022)Leu+(0.0264)Phe+(-0.0899)Trp;0.815,0.853,0.912,0.846,0.838,0.854,0.848,(1.8742)+(0.0274)Ser+(0.0093)Gln+(-0.0669)His+(-0.1684)Met+(0.0374)Phe+(-0.0669)Trp;0.805,0.845,0.912,0.820,0.796,0.837,0.826,(3.4001)+(0.0382)Ser+(-0.0523)His+(0.0061)Thr+(-0.1457)Met+(0.0379)Phe+(-0.0630)Trp;0.791,0.829,0.912,0.852,0.854,0.861,0.848,(1.5432)+(0.0275)Ser+(0.0058)Gln+(-0.1842)Met+(0.0258)Phe+(-0.0984)Trp;0.818,0.852,0.912,0.798,0.759,0.820,0.810,(1.4300)+(0.0432)Ser+(-0.0477)His+(-0.1657)Met+(0.0415)Ile+(0.0293)Phe+(-0.0605)Trp;0.779,0.829,0.912,0.853,0.856,0.863,0.849,(1.5550)+(0.0274)Ser+(0.0059)Gln+(-0.1843)Met+(-0.0018)Orn+(0.0265)Phe+(-0.0988)Trp;0.784,0.823,0.912,0.836,0.830,0.851,0.835,(2.7434)+(0.0364)Ser+(-0.1543)Met+(-0.0016)Leu+(0.0277)Phe+(-0.0886)Trp;0.849,0.879,0.912,0.802,0.793,0.771,0.814,(1.2798)+(0.0363)Ser+(-0.0506)Val+(-0.2678)Met+(0.00

40)Orn+(0.1367)Ile+(0.0509)Phe;0.776,0.829,0.912,0.851,0.853,0.861,0.848,(1.5439)+(0.0275)Ser+(0.0058)Gln+(0.0011)Tyr+(-0.1854)Met+(0.0255)Phe+(-0.0987)Trp;0.796,0.841,0.911,0.864,0.867,0.873,0.860,(1.9967)+(0.0277)Ser+(-0.0557)Asn+(0.0072)Gln+(-0.1368)Met+(0.0276)Phe+(-0.1002)Trp;0.792,0.834,0.911,0.811,0.789,0.830,0.818,(0.6202)+(0.0402)Ser+(-0.1911)Met+(-0.0054)Orn+(0.0461)Ile+(0.0222)Phe+(-0.0873)Trp;0.853,0.882,0.911,0.802,0.792,0.771,0.815,(1.2814)+(0.0371)Ser+(-0.0525)Val+(-0.2695)Met+(0.1342)Ile+(0.0070)Leu+(0.0494)Phe;0.770,0.822,0.911,0.832,0.824,0.850,0.832,(2.5316)+(0.0361)Ser+(0.0043)Tyr+(-0.1624)Met+(0.0054)Orn+(0.0231)Phe+(-0.0895)Trp;0.866,0.893,0.911,0.815,0.822,0.760,0.825,(2.0101)+(0.0383)Ser+(-0.0194)Pro+(-0.0555)Val+(-0.2381)Met+(0.1692)Ile+(0.0552)Phe;0.771,0.821,0.911,0.835,0.827,0.853,0.834,(2.6482)+(0.0373)Ser+(-0.0017)Thr+(0.0052)Tyr+(-0.1572)Met+(0.0243)Phe+(-0.0895)Trp;0.803,0.842,0.911,0.852,0.853,0.857,0.851,(4.4894)+(0.0357)Ser+(-0.0265)Asn+(-0.0138)Val+(-0.1282)Met+(0.0413)Phe+(-0.0729)Trp;0.776,0.822,0.910,0.835,0.830,0.850,0.834,(2.7554)+(0.0371)Ser+(-0.0016)Thr+(-0.1500)Met+(-0.0017)Leu+(0.0272)Phe+(-0.0878)Trp;0.797,0.840,0.910,0.827,0.814,0.836,0.830,(-0.1760)+(0.0313)Ser+(0.0051)Gln+(-0.2131)Met+(0.0400)Ile+(0.0204)Phe+(-0.0952)Trp;0.791,0.838,0.910,0.848,0.849,0.852,0.846,(4.1952)+(0.0342)Ser+(0.0009)Thr+(-0.0142)Val+(-0.1563)Met+(0.0411)Phe+(-0.0730)Trp;0.786,0.831,0.910,0.809,0.786,0.829,0.815,(0.6370)+(0.0395)Ser+(0.0024)Tyr+(-0.1934)Met+(0.0432)Ile+(0.0198)Phe+(-0.0875)Trp;0.855,0.887,0.910,0.804,0.789,0.779,0.818,(1.6257)+(0.0420)Ser+(-0.0043)Gly+(-0.0499)Val+(-0.2682)Met+(0.1382)Ile+(0.0491)Phe;0.802,0.838,0.909,0.847,0.849,0.851,0.846,(4.1917)+(0.0346)Ser+(-0.0142)Val+(-0.1540)Met+(0.0408)Phe+(-0.0727)Trp;0.797,0.845,0.909,0.851,0.846,0.862,0.851,(4.2901)+(0.0344)Ser+(0.0172)Tyr+(-0.0153)Val+(-0.1740)Met+(0.0367)Phe+(-0.0756)Trp;0.791,0.832,0.909,0.810,0

.788,0.827,0.816,(0.6399)+(0.0397)Ser+(-0.0004)Thr+(-0.1897)Met+(0.0433)Ile+(0.0204)Phe+(-0.0867)Trp;0.783,0.821,0.909,0.833,0.828,0.848,0.832,(2.6569)+(0.0373)Ser+(-0.0016)Thr+(-0.1515)Met+(0.0260)Phe+(-0.0883)Trp;0.798,0.832,0.909,0.810,0.788,0.827,0.816,(0.6369)+(0.0395)Ser+(-0.1907)Met+(0.0433)Ile+(0.0205)Phe+(-0.0869)Trp;0.788,0.830,0.908,0.810,0.789,0.827,0.815,(0.6970)+(0.0400)Ser+(-0.0021)Arg+(-0.1869)Met+(0.0430)Ile+(0.0199)Phe+(-0.0857)Trp;0.799,0.841,0.908,0.814,0.787,0.834,0.821,(3.1997)+(0.0398)Ser+(-0.0514)His+(-0.1338)Met+(0.0102)Orn+(0.0317)Phe+(-0.0594)Trp;0.793,0.835,0.908,0.808,0.787,0.823,0.815,(1.1478)+(0.0401)Ser+(-0.1769)Met+(-0.0056)Lys+(0.0437)Ile+(0.0187)Phe+(-0.0814)Trp;0.788,0.828,0.908,0.838,0.831,0.853,0.837,(3.0682)+(0.0378)Ser+(-0.0326)Asn+(0.0005)Thr+(-0.1252)Met+(0.0278)Phe+(-0.0890)Trp;0.802,0.845,0.908,0.830,0.819,0.835,0.833,(4.3232)+(0.0385)Ser+(-0.0413)His+(-0.0098)Val+(-0.1342)Met+(0.0437)Phe+(-0.0549)Trp;0.800,0.844,0.908,0.819,0.798,0.835,0.826,(3.3748)+(0.0404)Ser+(-0.0495)His+(0.0004)Arg+(-0.1319)Met+(0.0355)Phe+(-0.0618)Trp;0.781,0.827,0.908,0.832,0.827,0.843,0.832,(3.1718)+(0.0365)Ser+(0.0015)Thr+(-0.1454)Met+(-0.0056)Lys+(0.0252)Phe+(-0.0843)Trp;0.785,0.828,0.908,0.836,0.828,0.852,0.836,(3.0792)+(0.0383)Ser+(-0.0302)Asn+(-0.0020)Arg+(-0.1229)Met+(0.0269)Phe+(-0.0877)Trp;0.782,0.829,0.908,0.837,0.829,0.853,0.837,(3.0578)+(0.0380)Ser+(-0.0324)Asn+(0.0054)Tyr+(-0.1303)Met+(0.0260)Phe+(-0.0901)Trp;0.769,0.819,0.908,0.830,0.824,0.843,0.829,(2.5234)+(0.0374)Ser+(-0.0033)Thr+(-0.1495)Met+(0.0068)Orn+(0.0228)Phe+(-0.0867)Trp;0.810,0.844,0.908,0.819,0.797,0.836,0.826,(3.3810)+(0.0405)Ser+(-0.0494)His+(-0.1313)Met+(0.0353)Phe+(-0.0617)Trp;0.806,0.844,0.908,0.819,0.797,0.836,0.826,(3.3834)+(0.0405)Ser+(-0.0002)Asn+(-0.0494)His+(-0.1311)Met+(0.0353)Phe+(-0.0617)Trp;0.842,0.873,0.908,0.816,0.816,0.784,0.824,(4.1550)+(0.0238)Thr+(-0.0499)Val+(-0.2634)Met+(0.1320)Ile+

(0.0496)Phe+(-0.0243)Trp;0.795,0.828,0.908,0.838,0.831,0.853,0.837,(3.0653)+(0.0380)Ser+(-0.0322)Asn+(-0.1242)Met+(0.0276)Phe+(-0.0888)Trp;0.788,0.827,0.908,0.838,0.831,0.853,0.837,(3.0623)+(0.0380)Ser+(-0.0322)Asn+(-0.1242)Met+(0.0001)Leu+(0.0276)Phe+(-0.0888)Trp;0.803,0.849,0.908,0.818,0.787,0.843,0.826,(3.3971)+(0.0408)Ser+(-0.0528)His+(0.0189)Tyr+(-0.1518)Met+(0.0302)Phe+(-0.0645)Trp;0.777,0.823,0.907,0.834,0.829,0.849,0.833,(2.8679)+(0.0374)Ser+(-0.0049)Arg+(-0.1461)Met+(-0.0022)Leu+(0.0265)Phe+(-0.0858)Trp;0.775,0.821,0.907,0.832,0.826,0.848,0.832,(2.7471)+(0.0375)Ser+(0.0006)Thr+(-0.0050)Arg+(-0.1491)Met+(0.0251)Phe+(-0.0867)Trp;0.780,0.821,0.907,0.832,0.826,0.846,0.831,(2.7438)+(0.0377)Ser+(-0.0047)Arg+(-0.1479)Met+(0.0250)Phe+(-0.0865)Trp;0.800,0.845,0.907,0.867,0.878,0.864,0.862,(3.0948)+(0.0245)Ser+(0.0063)Gln+(-0.0151)Val+(-0.1849)Met+(0.0410)Phe+(-0.0817)Trp;0.861,0.888,0.906,0.808,0.795,0.779,0.821,(3.3913)+(0.0305)Ser+(0.0041)Thr+(-0.0388)Val+(-0.2230)Met+(0.1218)Ile+(-0.0241)Trp;0.790,0.827,0.906,0.833,0.827,0.845,0.833,(3.1423)+(0.0371)Ser+(-0.1424)Met+(-0.0053)Lys+(0.0248)Phe+(-0.0839)Trp;0.781,0.827,0.906,0.833,0.827,0.845,0.833,(3.1421)+(0.0371)Ser+(-0.1424)Met+(-0.0053)Lys+(0.0000)Leu+(0.0248)Phe+(-0.0839)Trp;0.785,0.831,0.906,0.850,0.856,0.853,0.847,(2.1609)+(0.0273)Ser+(0.0064)Gln+(-0.1677)Met+(-0.0079)Lys+(0.0233)Phe+(-0.0918)Trp;0.781,0.824,0.906,0.833,0.826,0.849,0.833,(2.9560)+(0.0374)Ser+(-0.0372)Asn+(-0.1222)Met+(0.0084)Orn+(0.0246)Phe+(-0.0878)Trp;0.777,0.828,0.906,0.833,0.825,0.847,0.833,(3.1277)+(0.0371)Ser+(0.0038)Tyr+(-0.1471)Met+(-0.0052)Lys+(0.0237)Phe+(-0.0850)Trp;0.772,0.823,0.906,0.832,0.825,0.848,0.832,(2.7349)+(0.0377)Ser+(-0.0047)Arg+(0.0049)Tyr+(-0.1538)Met+(0.0235)Phe+(-0.0878)Trp;0.805,0.845,0.906,0.819,0.798,0.835,0.826,(3.4430)+(0.0405)Ser+(-0.0489)His+(-0.1297)Met+(-0.0007)Lys+(0.0350)Phe+(-0.0612)Trp;0.804,0.845,0.906,0.820,0.808,0.822,0.825,(1.1919)+

(0.0410)Ser+(-0.0151)Pro+(-0.1612)Met+(0.0598)Ile+(0.0208)Phe+(-0.0943)Trp;0.803,0.843,0.906,0.814,0.789,0.832,0.822,(3.1179)+(0.0413)Ser+(-0.0509)His+(-0.1343)Met+(0.0051)Leu+(0.0318)Phe+(-0.0623)Trp;0.770,0.819,0.906,0.827,0.821,0.839,0.827,(2.6188)+(0.0374)Ser+(-0.0067)Arg+(-0.1474)Met+(0.0080)Orn+(0.0213)Phe+(-0.0845)Trp;0.794,0.839,0.906,0.847,0.848,0.851,0.846,(4.3044)+(0.0348)Ser+(-0.0138)Val+(-0.1499)Met+(-0.0017)Lys+(0.0398)Phe+(-0.0715)Trp;0.800,0.835,0.906,0.811,0.788,0.828,0.817,(1.0631)+(0.0415)Ser+(-0.0424)Asn+(-0.1515)Met+(0.0459)Ile+(0.0216)Phe+(-0.0864)Trp;0.796,0.841,0.906,0.842,0.840,0.845,0.842,(4.1524)+(0.0328)Ser+(-0.0168)Val+(-0.1591)Met+(0.0156)Orn+(0.0374)Phe+(-0.0679)Trp;0.779,0.828,0.905,0.833,0.826,0.844,0.833,(3.1338)+(0.0375)Ser+(-0.0019)Arg+(-0.1406)Met+(-0.0048)Lys+(0.0244)Phe+(-0.0834)Trp;0.778,0.825,0.905,0.829,0.823,0.839,0.829,(3.0497)+(0.0366)Ser+(-0.1434)Met+(0.0071)Orn+(-0.0058)Lys+(0.0219)Phe+(-0.0826)Trp;0.888,0.911,0.905,0.814,0.811,0.763,0.828,(3.9212)+(0.0380)Ser+(-0.0160)Ala+(-0.0426)Val+(-0.1846)Met+(0.1388)Ile+(0.0358)Phe;0.866,0.897,0.905,0.811,0.787,0.796,0.827,(3.1432)+(0.0334)Ser+(0.0477)Tyr+(-0.0449)Val+(-0.2823)Met+(0.1298)Ile+(-0.0300)Trp;0.784,0.832,0.904,0.853,0.859,0.858,0.850,(1.4842)+(0.0295)Ser+(0.0063)Gln+(-0.0064)Thr+(-0.1698)Met+(0.0236)Phe+(-0.0961)Trp;0.795,0.838,0.904,0.845,0.844,0.851,0.844,(4.4818)+(0.0350)Ser+(-0.0281)Cit+(-0.0131)Val+(-0.1413)Met+(0.0402)Phe+(-0.0715)Trp;0.786,0.826,0.904,0.836,0.831,0.848,0.835,(3.4140)+(0.0382)Ser+(-0.0284)Asn+(-0.117

3)Met+(-0.0043)Lys+(0.0261)Phe+(-0.0847)Trp;0.788,0.836,0.904,0.845,0.846,0.849,0.844,(4.2580)+(0.0354)Ser+(-0.0039)Arg+(-0.0141)Val+(-0.1477)Met+(0.0394)Phe+(-0.0707)Trp;0.863,0.888,0.903,0.810,0.794,0.787,0.823,(3.6413)+(0.0330)Ser+(-0.0331)Cit+(-0.0376)Val+(-0.1994)Met+(0.1223)Ile+(-0.0213)Trp;0.769,0.822,0.903,0.831,0.822,0.849,0.831,(3.04

34)+(0.0416)Ser+(-0.0042)Gly+(0.0011)Tyr+(-0.1575)Met+(0.0237)Phe+(-0.0875)Trp;0.858,0.887,0.903,0.806,0.793,0.778,0.819,(3.3252)+(0.0317)Ser+(-0.0392)Val+(-0.2144)Met+(0.0077)Orn+(0.1179)Ile+(-0.0221)Trp;0.794,0.835,0.903,0.806,0.781,0.824,0.813,(1.0512)+(0.0454)Ser+(-0.0049)Gly+(-0.1923)Met+(0.0443)Ile+(0.0175)Phe+(-0.0847)Trp;0.791,0.837,0.903,0.844,0.841,0.852,0.843,(4.4934)+(0.0388)Ser+(-0.0036)Gly+(-0.0138)Val+(-0.1546)Met+(0.0383)Phe+(-0.0715)Trp;0.786,0.833,0.903,0.852,0.857,0.857,0.849,(1.5600)+(0.0284)Ser+(0.0071)Gln+(-0.0128)Arg+(-0.1697)Met+(0.0216)Phe+(-0.0935)Trp;0.772,0.823,0.903,0.830,0.821,0.848,0.830,(3.0737)+(0.0412)Ser+(-0.0046)Gly+(0.0019)Thr+(-0.1612)Met+(0.0244)Phe+(-0.0880)Trp;0.783,0.822,0.903,0.831,0.822,0.849,0.831,(3.0498)+(0.0416)Ser+(-0.0043)Gly+(-0.1562)Met+(0.0240)Phe+(-0.0873)Trp;0.792,0.836,0.903,0.836,0.824,0.854,0.838,(3.0762)+(0.0358)Ser+(-0.0372)Cit+(0.0053)Arg+(-0.1472)Met+(0.0288)Phe+(-0.0888)Trp;0.777,0.822,0.903,0.833,0.825,0.849,0.832,(3.1720)+(0.0414)Ser+(-0.0043)Gly+(-0.1547)Met+(-0.0021)Leu+(0.0255)Phe+(-0.0866)Trp;0.771,0.821,0.903,0.830,0.821,0.847,0.830,(3.0605)+(0.0417)Ser+(-0.0040)Gly+(-0.0020)Arg+(-0.1530)Met+(0.0235)Phe+(-0.0863)Trp;0.785,0.836,0.903,0.853,0.852,0.863,0.851,(1.9995)+(0.0342)Ser+(-0.0072)Gly+(0.0070)Gln+(-0.1910)Met+(0.0214)Phe+(-0.0972)Trp;0.780,0.831,0.903,0.839,0.837,0.846,0.838,(3.3346)+(0.0361)Ser+(-0.0097)Pro+(-0.1308)Met+(0.0080)Orn+(0.0251)Phe+(-0.0934)Trp;0.819,0.858,0.902,0.813,0.790,0.819,0.822,(2.2718)+(0.0320)Ser+(0.0294)Tyr+(-0.2078)Met+(0.1025)Ile+(-0.0485)Leu+(-0.0652)Trp;0.855,0.888,0.902,0.807,0.795,0.777,0.820,(3.3430)+(0.0323)Ser+(0.0006)Arg+(-0.0384)Val+(-0.2135)Met+(0.1206)Ile+(-0.0235)Trp;0.821,0.851,0.902,0.810,0.796,0.805,0.817,(2.3989)+(0.0319)Ser+(-0.1700)Met+(0.0944)Ile+(-0.0402)Leu+(-0.0594)Trp

[0369] ［実施例８で探索されたロジスティック回帰式の一覧（その１）］

以下に、前述した実施例８で探索されたロジスティック回帰式を列挙する。なお、式の前には、その式について得られた、「バリデーション有りでの膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣの値」、「バリデーション無しでの膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と健常群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と他癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値」、および「膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣの値の平均値」を、さらに列挙する。

[0370] 0.945,0.965,0.856,0.937,0.919,0.922,0.936,(19.7721)+(-0.1860)Asn+(-0.0214)Gly+(-0.0294)Arg+(0.1519)Tyr+(-0.0325)Val+(-0.1932)Trp;0.943,0.962,0.845,0.931,0.915,0.910,0.929,(18.2716)+(-0.1808)Asn+(-0.0209)Gly+(0.1319)Tyr+(-0.0291)Val+(-0.0849)Met+(-0.1671)Trp;0.942,0.961,0.843,0.928,0.914,0.904,0.926,(18.6950)+(-0.2049)Asn+(-0.0227)Gly+(0.1247)Tyr+(-0.0313)Val+(-0.1689)Trp;0.940,0.964,0.852,0.931,0.908,0.914,0.929,(18.5628)+(-0.1809)Asn+(-0.0213)Gly+(0.1403)Tyr+(-0.0261)Val+(-0.0149)Lys+(-0.1804)Trp;0.939,0.967,0.829,0.925,0.898,0.903,0.922,(19.2936)+(-0.1920)Asn+(-0.0216)Gly+(0.1768)Tyr+(-0.0310)Val+(-0.0428)Orn+(-0.2144)Trp;0.939,0.962,0.843,0.931,0.916,0.908,0.929,(19.1391)+(-0.2047)Asn+(-0.0227)Gly+(0.1279)Tyr+(-0.0303)Val+(-0.0160)Phe+(-0.1678)Trp;0.938,0.963,0.834,0.929,0.915,0.904,0.927,(18.4477)+(-0.1783)Asn+(-0.0211)Gly+(-0.0102)Ala+(0.1495)Tyr+(-0.0246)Val+(-0.1848)Trp;0.938,0.962,0.838,0.929,0.914,0.904,0.926,(18.5187)+(-0.1989)Asn+(-0.0223)Gly+(-0.0039)Thr+(0.1257)Tyr+(-0.0307)Val+(-0.1660)Trp;0.938,0.961,0.844,0.929,0.913,0.905,0.926,(18.6585)+(-0.2034)Asn+(-0.0223)Gly+(-0.0051)Cit+(0.1250)Tyr+(-0.0309)Val+(-0.1696)Trp;0.937,0.960,0.853,0.921,0.903,0.893,0.919,(14.2988)+(-0.0198)Gly+(-0.0185)Ala+(0.1778)Tyr+(-0.0453)Lys+(0.0589)Ile+(-0.2460)Trp;0.936,0.961,0.839,0.926,0.908,0.902

,0.924,(15.5250)+(-0.0179)Gly+(-0.0145)Ala+(0.1906)Tyr+(-0.1690)Met+(-0.0266)Lys+(-0.2415)Trp;0.936,0.952,0.832,0.919,0.910,0.886,0.916,(13.9656)+(-0.0178)Gly+(-0.0153)Ala+(0.1596)Tyr+(-0.2595)Met+(-0.2181)Trp;0.936,0.965,0.867,0.929,0.914,0.899,0.926,(16.5833)+(0.0280)Ser+(-0.2436)Asn+(-0.0259)Gly+(0.1294)Tyr+(-0.0295)Val+(-0.1576)Trp;0.935,0.962,0.870,0.941,0.920,0.938,0.940,(18.8523)+(-0.1698)Asn+(-0.0207)Gly+(-0.0278)Arg+(0.1337)Tyr+(-0.0451)Leu+(-0.2089)Trp;0.935,0.954,0.827,0.921,0.904,0.898,0.919,(15.5136)+(-0.0218)Gly+(-0.0152)Ala+(0.1870)Tyr+(-0.0365)Lys+(-0.2577)Trp;0.935,0.958,0.826,0.917,0.902,0.884,0.914,(15.0724)+(-0.0164)Gly+(-0.0156)Ala+(0.2082)Tyr+(-0.2478)Met+(-0.0445)Orn+(-0.2598)Trp;0.934,0.964,0.850,0.929,0.910,0.907,0.927,(17.3759)+(-0.1143)Asn+(-0.0180)Gly+(-0.0144)Ala+(0.1820)Tyr+(-0.0310)Lys+(-0.2361)Trp;0.934,0.960,0.858,0.926,0.915,0.897,0.924,(17.5160)+(-0.1971)Asn+(-0.0223)Gly+(0.1061)Tyr+(-0.0379)Val+(0.0390)Ile+(-0.1469)Trp;0.933,0.956,0.826,0.920,0.911,0.885,0.917,(14.7011)+(-0.0195)Gly+(-0.0128)Ala+(0.1600)Tyr+(-0.0115)Val+(-0.2308)Met+(-0.2077)Trp;0.933,0.956,0.846,0.923,0.905,0.899,0.920,(15.5936)+(-0.0203)Gly+(-0.0275)His+(-0.0142)Ala+(0.1768)Tyr+(-0.0313)Lys+(-0.2379)Trp;0.933,0.955,0.836,0.919,0.901,0.891,0.916,(16.2475)+(-0.1293)Asn+(-0.0178)Gly+(-0.0149)Ala+(0.1739)Tyr+(-0.0420)Orn+(-0.2480)Trp;0.933,0.962,0.834,0.925,0.912,0.892,0.922,(18.4104)+(-0.2075)Asn+(-0.0230)Gly+(0.1248)Tyr+(-0.0486)Val+(0.0337)Leu+(-0.1596)Trp;0.933,0.957,0.841,0.919,0.910,0.882,0.916,(12.7704)+(0.0158)Ser+(-0.0200)Gly+(-0.0151)Ala+(0.1649)Tyr+(-0.2878)Met+(-0.2158)Trp;0.933,0.959,0.861,0.928,0.909,0.909,0.926,(16.6886)+(-0.1353)Asn+(-0.0146)Gly+(-0.0174)Ala+(-0.0709)Cit+(0.1542)Tyr+(-0.2304)Trp;0.932,0.956,0.865,0.933,0.920,0.919,0.932,(17.8934)+(-0.1885)Asn+(-0.0219)Gly+(0.1074)Tyr+(-0.0427)Leu+(-0.1860)Trp;0.932,0.961,0.846,0.930,0.906,0.919,0.928,(18.6123)+(-0.1766)Asn+(-0.0211)G

ly+(0.1599)Tyr+(-0.0436)Orn+(-0.0448)Leu+(-0.2264)Trp;0.932,0.961,0.892,0.917,0.891,0.892,0.914,(12.7382)+(-0.0270)Ala+(-0.1091)Cit+(0.1739)Tyr+(-0.0494)Lys+(0.1149)Ile+(-0.2253)Trp;0.932,0.958,0.857,0.929,0.914,0.909,0.927,(16.6371)+(-0.1199)Asn+(-0.0175)Gly+(-0.0160)Ala+(-0.0322)Arg+(0.1667)Tyr+(-0.2438)Trp;0.932,0.953,0.829,0.920,0.911,0.889,0.918,(14.5685)+(-0.0183)Gly+(-0.0153)Ala+(0.1628)Tyr+(-0.2435)Met+(-0.0186)Phe+(-0.2174)Trp;0.932,0.957,0.827,0.924,0.908,0.901,0.922,(16.1441)+(-0.0220)Gly+(-0.0153)Ala+(0.1898)Tyr+(-0.0347)Lys+(-0.0218)Phe+(-0.2544)Trp;0.932,0.955,0.846,0.922,0.909,0.896,0.920,(14.8528)+(-0.0153)Gly+(-0.0170)Ala+(-0.0561)Cit+(0.1709)Tyr+(-0.2161)Met+(-0.2359)Trp;0.932,0.953,0.830,0.920,0.912,0.886,0.917,(14.3526)+(-0.0184)Gly+(-0.0144)Ala+(0.1591)Tyr+(-0.2409)Met+(-0.0090)Leu+(-0.2174)Trp;0.931,0.960,0.859,0.929,0.903,0.919,0.927,(17.4730)+(-0.1593)Asn+(-0.0189)Ala+(-0.0859)Cit+(0.1918)Tyr+(-0.0280)Lys+(-0.2234)Trp;0.931,0.960,0.864,0.936,0.914,0.930,0.935,(17.7847)+(-0.1585)Asn+(-0.0208)Gly+(0.1310)Tyr+(-0.0193)Lys+(-0.0298)Leu+(-0.2023)Trp;0.931,0.955,0.828,0.931,0.917,0.916,0.929,(15.1833)+(-0.0229)Gly+(-0.0305)Arg+(0.1523)Tyr+(-0.0235)Val+(-0.1789)Met+(-0.2015)Trp;0.931,0.951,0.821,0.920,0.903,0.898,0.918,(15.2754)+(-0.0207)Gly+(-0.0103)Thr+(-0.0148)Ala+(0.1882)Tyr+(-0.0341)Lys+(-0.2458)Trp;0.931,0.959,0.841,0.924,0.899,0.907,0.922,(16.0715)+(-0.0188)Gly+(-0.0166)Ala+(-0.0509)Cit+(0.1942)Tyr+(-0.0317)Lys+(-0.2679)Trp;0.931,0.957,0.863,0.935,0.921,0.923,0.934,(18.3571)+(-0.1881)Asn+(-0.0221)Gly+(0.1111)Tyr+(-0.0408)Leu+(-0.0171)Phe+(-0.1843)Trp;0.931,0.955,0.822,0.920,0.905,0.892,0.917,(15.8004)+(-0.0227)Gly+(-0.0141)Ala+(0.1839)Tyr+(-0.0068)Val+(-0.0331)Lys+(-0.2473)Trp;0.931,0.963,0.819,0.927,0.914,0.895,0.924,(19.3362)+(-0.2361)Asn+(-0.0246)Gly+(0.0353)His+(0.1325)Tyr+(-0.0382)Val+(-0.1807)Trp;0.931,0.957,0.814,0.916,0.884,0.897,0.913,(16.1310)+(-0.0213)Gly+(-0.0146)

Ala+(0.2199)Tyr+(-0.0367)Orn+(-0.0311)Lys+(-0.2948)Trp;0.931,0.953,0.839,0.926,0.913,0.906,0.924,(14.9224)+(-0.0172)Gly+(-0.0158)Ala+(-0.0269)Arg+(0.1821)Tyr+(-0.2001)Met+(-0.2469)Trp;0.930,0.953,0.835,0.918,0.909,0.884,0.915,(13.3776)+(-0.0169)Gly+(-0.0168)Ala+(0.1532)Tyr+(-0.2681)Met+(0.0193)Ile+(-0.2103)Trp;0.930,0.956,0.843,0.922,0.911,0.893,0.920,(15.5012)+(-0.0214)Gly+(-0.0162)Ala+(0.0056)Pro+(0.1831)Tyr+(-0.0401)Lys+(-0.2513)Trp;0.930,0.963,0.833,0.929,0.910,0.908,0.927,(18.6294)+(-0.1987)Asn+(-0.0223)Gly+(-0.0058)Pro+(0.1346)Tyr+(-0.0299)Val+(-0.1767)Trp;0.930,0.960,0.848,0.930,0.918,0.907,0.928,(17.8737)+(-0.1634)Asn+(-0.0201)Gly+(-0.0124)Ala+(0.1429)Tyr+(-0.0304)Leu+(-0.2040)Trp;0.930,0.956,0.824,0.922,0.908,0.895,0.919,(14.1671)+(-0.0227)Gly+(0.0040)Gln+(-0.0153)Ala+(0.1800)Tyr+(-0.0397)Lys+(-0.2508)Trp;0.929,0.956,0.833,0.901,0.874,0.863,0.898,(11.0189)+(-0.0238)Ala+(0.1862)Tyr+(-0.0464)Orn+(-0.0480)Lys+(0.0979)Ile+(-0.2219)Trp;0.929,0.954,0.828,0.921,0.904,0.898,0.919,(15.4882)+(-0.0218)Gly+(-0.0153)Ala+(0.1873)Tyr+(-0.0368)Lys+(0.0009)Leu+(-0.2582)Trp;0.929,0.958,0.834,0.927,0.904,0.913,0.925,(16.5859)+(-0.0204)Gly+(-0.0162)Ala+(-0.0269)Arg+(0.2107)Tyr+(-0.0310)Lys+(-0.2841)Trp;0.929,0.955,0.830,0.921,0.905,0.896,0.919,(14.8299)+(0.0085)Ser+(-0.0235)Gly+(-0.0150)Ala+(0.1904)Tyr+(-0.0376)Lys+(-0.2587)Trp;0.929,0.954,0.828,0.918,0.909,0.882,0.915,(13.7957)+(-0.0177)Gly+(-0.0065)Thr+(-0.0149)Ala+(0.1605)Tyr+(-0.2347)Met+(-0.2138)Trp;0.928,0.956,0.848,0.922,0.911,0.892,0.920,(15.5990)+(-0.1429)Asn+(-0.0194)Gly+(-0.0149)Ala+(0.1291)Tyr+(-0.2079)Trp;0.928,0.955,0.859,0.925,0.906,0.909,0.923,(15.7802)+(-0.1780)Asn+(-0.0196)Ala+(-0.1054)Cit+(0.1536)Tyr+(-0.2061)Trp;0.928,0.957,0.883,0.932,0.915,0.919,0.930,(15.7143)+(0.0305)Ser+(-0.2338)Asn+(-0.0255)Gly+(0.1141)Tyr+(-0.0410)Leu+(-0.1715)Trp;0.928,0.956,0.848,0.922,0.911,0.891,0.919,(14.4104)+(-0.0167)Gly+(-0.0336)His+(-0.0143)Ala+(0.1516)Tyr+(

-0.2112)Met+(-0.2011)Trp;0.928,0.955,0.818,0.919,0.888,0.905,0.916,(16.1039)+(-0.0202)Gly+(-0.0171)Ala+(-0.0410)Arg+(0.2243)Tyr+(-0.0454)Orn+(-0.3189)Trp;0.928,0.955,0.882,0.934,0.913,0.929,0.932,(16.4372)+(-0.1106)Asn+(-0.0192)Gly+(-0.0364)His+(0.1264)Tyr+(-0.0285)Lys+(-0.1935)Trp;0.928,0.952,0.832,0.919,0.910,0.886,0.916,(13.9641)+(-0.0178)Gly+(-0.0153)Ala+(0.0000)Pro+(0.1595)Tyr+(-0.2595)Met+(-0.2180)Trp;0.927,0.950,0.812,0.919,0.907,0.893,0.917,(13.8882)+(-0.0231)Gly+(0.1310)Tyr+(-0.0217)Val+(-0.2380)Met+(-0.1781)Trp;0.927,0.948,0.796,0.908,0.893,0.877,0.906,(13.0373)+(-0.0176)Ala+(0.2102)Tyr+(-0.3645)Met+(-0.0525)Orn+(-0.2193)Trp;0.927,0.962,0.836,0.931,0.919,0.906,0.929,(17.0704)+(-0.2285)Asn+(-0.0240)Gly+(0.0056)Gln+(0.1137)Tyr+(-0.0320)Val+(-0.1577)Trp;0.927,0.955,0.866,0.935,0.920,0.926,0.934,(17.4567)+(-0.1669)Asn+(-0.0206)Gly+(0.1134)Tyr+(-0.0722)Met+(-0.0394)Leu+(-0.1828)Trp;0.927,0.953,0.834,0.903,0.882,0.862,0.899,(10.5201)+(-0.0204)Thr+(-0.0225)Ala+(0.1669)Tyr+(-0.0496)Lys+(0.0851)Ile+(-0.1799)Trp;0.927,0.952,0.833,0.921,0.904,0.900,0.919,(14.6656)+(-0.0213)Gly+(-0.0170)Ala+(-0.0414)Arg+(0.1714)Tyr+(-0.2699)Trp;0.927,0.953,0.868,0.936,0.914,0.938,0.935,(16.2015)+(-0.1073)Asn+(-0.0194)Gly+(0.1392)Tyr+(-0.0897)Met+(-0.0309)Lys+(-0.2105)Trp;0.926,0.955,0.832,0.920,0.912,0.885,0.917,(13.2893)+(-0.0180)Gly+(0.0017)Gln+(-0.0153)Ala+(0.1555)Tyr+(-0.2670)Met+(-0.2134)Trp;0.926,0.951,0.813,0.913,0.896,0.885,0.911,(14.0525)+(-0.0170)Ala+(0.2217)Tyr+(-0.3129)Met+(-0.0447)Orn+(-0.0176)Lys+(-0.2287)Trp;0.926,0.943,0.811,0.902,0.897,0.858,0.899,(12.9309)+(-0.0255)Gly+(-0.0158)Ala+(0.1244)Tyr+(-0.2339)Trp;0.926,0.952,0.864,0.934,0.912,0.934,0.933,(16.3460)+(-0.1262)Asn+(-0.0207)Gly+(0.1315)Tyr+(-0.0334)Lys+(-0.2145)Trp;0.926,0.956,0.864,0.933,0.920,0.919,0.932,(17.9000)+(-0.1886)Asn+(-0.0220)Gly+(0.1076)Tyr+(-0.0002)Ile+(-0.0427)Leu+(-0.1861)Trp;0.926,0.953,0.825,0.925,0.907,0.909,0.923,(14.7538)+(-

0.0224)Gly+(0.1545)Tyr+(-0.0166)Val+(-0.1813)Met+(-0.0217)Lys+(-0.198
3)Trp;0.926,0.950,0.827,0.925,0.908,0.912,0.923,(15.6837)+(-0.0262)Gl
y+(-0.0290)Arg+(0.1608)Tyr+(-0.0204)Val+(-0.0210)Lys+(-0.2305)Trp;0.9
26,0.954,0.854,0.918,0.907,0.886,0.916,(14.2981)+(-0.0208)Gly+(-0.067
6)His+(-0.0139)Ala+(0.1262)Tyr+(-0.1988)Trp;0.926,0.946,0.819,0.921,0
.909,0.904,0.920,(15.3785)+(-0.0281)Gly+(-0.0419)Arg+(0.1444)Tyr+(-0.
0269)Val+(-0.2218)Trp;0.926,0.959,0.834,0.914,0.889,0.886,0.911,(15.4
621)+(-0.0195)Gly+(-0.0639)His+(-0.0141)Ala+(0.1778)Tyr+(-0.0458)Orn+
(-0.2444)Trp;0.926,0.956,0.851,0.926,0.917,0.897,0.923,(15.5754)+(-0.
0969)Asn+(-0.0165)Gly+(-0.0147)Ala+(0.1540)Tyr+(-0.1825)Met+(-0.2075)
Trp;0.926,0.955,0.866,0.921,0.911,0.891,0.919,(14.1295)+(0.0273)Ser+(
-0.1871)Asn+(-0.0231)Gly+(-0.0145)Ala+(0.1350)Tyr+(-0.1992)Trp;0.926,
0.955,0.846,0.926,0.894,0.924,0.924,(16.4740)+(-0.1179)Asn+(-0.0198)G
ly+(0.1615)Tyr+(-0.0308)Orn+(-0.0315)Lys+(-0.2373)Trp;0.926,0.954,0.8
15,0.923,0.908,0.899,0.920,(16.9420)+(-0.0245)Gly+(-0.0139)Ala+(-0.04
34)Arg+(0.1893)Tyr+(-0.0195)Val+(-0.2614)Trp;0.926,0.953,0.848,0.914,
0.895,0.885,0.911,(11.9904)+(-0.0221)Ala+(0.1867)Tyr+(-0.2787)Met+(-0
.0388)Lys+(0.0756)Ile+(-0.187
0)Trp;0.925,0.959,0.869,0.937,0.921,0.927,0.935,(17.8321)+(-0.1846)As
n+(-0.0209)Gly+(-0.0167)Cit+(0.1097)Tyr+(-0.0418)Leu+(-0.1871)Trp;0.9
25,0.958,0.859,0.926,0.907,0.907,0.924,(15.6209)+(-0.0183)Gly+(-0.056
7)His+(-0.0149)Ala+(-0.0360)Arg+(0.1653)Tyr+(-0.2352)Trp;0.925,0.956,
0.864,0.935,0.924,0.922,0.934,(16.7684)+(-0.2019)Asn+(-0.0229)Gly+(0.
0037)Gln+(0.0987)Tyr+(-0.0427)Leu+(-0.1790)Trp;0.925,0.956,0.832,0.92
0,0.887,0.910,0.918,(15.8037)+(-0.2082)Asn+(0.1740)Tyr+(-0.0257)Val+(
-0.1788)Met+(-0.0481)Orn+(-0.1578)Trp;0.925,0.955,0.798,0.915,0.891,0
.891,0.912,(14.7090)+(-0.0226)Gly+(0.1806)Tyr+(-0.0223)Val+(-0.2174)M
et+(-0.0426)Orn+(-0.2171)Trp;0.925,0.955,0.873,0.935,0.910,0.936,0.93

4,(16.2745)+(-0.1252)Asn+(-0.0195)Gly+(-0.0151)Cit+(0.1319)Tyr+(-0.0326)Lys+(-0.2131)Trp;0.925,0.953,0.843,0.921,0.901,0.904,0.919,(14.6029)+(-0.0186)Ala+(-0.0729)Cit+(0.1982)Tyr+(-0.2438)Met+(-0.0226)Lys+(-0.2219)Trp;0.925,0.951,0.813,0.912,0.891,0.885,0.909,(14.2251)+(-0.1875)Asn+(-0.0166)Ala+(0.1617)Tyr+(-0.0542)Orn+(-0.1972)Trp;0.925,0.949,0.898,0.928,0.912,0.918,0.927,(13.7121)+(-0.0209)Gly+(-0.0815)His+(-0.0281)Arg+(0.0983)Tyr+(-0.1762)Trp;0.925,0.958,0.807,0.917,0.897,0.886,0.914,(16.4874)+(-0.2226)Asn+(-0.0129)Ala+(0.1765)Tyr+(-0.0193)Val+(-0.0525)Orn+(-0.1802)Trp;0.925,0.958,0.859,0.928,0.906,0.913,0.926,(15.6232)+(-0.1300)Asn+(-0.0187)Ala+(-0.0890)Cit+(0.1729)Tyr+(-0.1691)Met+(-0.2059)Trp;0.925,0.957,0.859,0.934,0.922,0.918,0.932,(17.6413)+(-0.1786)Asn+(-0.0212)Gly+(-0.0075)Thr+(0.1100)Tyr+(-0.0417)Leu+(-0.1801)Trp;0.925,0.955,0.823,0.919,0.896,0.897,0.916,(15.6904)+(-0.1567)Asn+(-0.0176)Ala+(-0.0346)Arg+(0.1966)Tyr+(-0.0486)Orn+(-0.2395)Trp;0.925,0.954,0.842,0.917,0.905,0.885,0.915,(14.0720)+(-0.0193)Gly+(-0.0614)His+(-0.0139)Thr+(-0.0134)Ala+(0.1326)Tyr+(-0.1877)Trp;0.925,0.948,0.797,0.907,0.893,0.872,0.904,(12.5917)+(-0.0175)Ala+(0.2088)Tyr+(-0.3771)Met+(-0.0531)Orn+(0.0170)Phe+(-0.2220)Trp;0.925,0.947,0.844,0.934,0.920,0.934,0.934,(14.4805)+(-0.0223)Gly+(-0.0287)Arg+(0.1367)Tyr+(-0.1646)Met+(-0.0311)Leu+(-0.2103)Trp;0.924,0.954,0.855,0.923,0.904,0.905,0.921,(14.8267)+(-0.0185)Gly+(-0.0460)His+(-0.0161)Ala+(-0.0548)Cit+(0.1444)Tyr+(-0.2256)Trp;0.924,0.952,0.830,0.917,0.903,0.890,0.915,(15.4019)+(-0.1670)Asn+(-0.0176)Ala+(0.1748)Tyr+(-0.0359)Lys+(-0.1844)Trp;0.924,0.961,0.873,0.928,0.915,0.903,0.926,(16.1644)+(-0.1179)Asn+(-0.0173)Gly+(-0.0477)His+(-0.0138)Ala+(0.1276)Tyr+(-0.1856)Trp

[0371] ［実施例８で探索された線形判別式の一覧（その１）］

以下に、前述した実施例８で探索された線形判別式を列挙する。なお、式の前には、その式について得られた、「バリデーション有りでの膵臓癌群と

乳癌群のＲＯＣ＿ＡＵＣの値」、「バリデーション無しでの膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と健常群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と他癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値」、および「膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣの値の平均値」を、さらに列挙する。

[0372] 0.947,0.963,0.857,0.932,0.910,0.917,0.930,(16.5080)+(-0.1847)Asn+(-0.0136)Gly+(0.1059)Tyr+(-0.0166)Val+(-0.0144)Lys+(-0.1261)Trp;0.947,0.963,0.887,0.926,0.917,0.890,0.923,(15.4522)+(0.0407)Ser+(-0.2621)Asn+(-0.0204)Gly+(0.0901)Tyr+(-0.0238)Val+(-0.1073)Trp;0.946,0.961,0.856,0.931,0.916,0.911,0.929,(16.3693)+(-0.2032)Asn+(-0.0143)Gly+(0.0911)Tyr+(-0.0205)Val+(-0.1222)Trp;0.946,0.964,0.867,0.938,0.921,0.925,0.937,(16.6747)+(-0.1853)Asn+(-0.0142)Gly+(-0.0165)Arg+(0.1002)Tyr+(-0.0198)Val+(-0.1310)Trp;0.945,0.964,0.851,0.931,0.907,0.914,0.928,(16.3302)+(-0.1982)Asn+(-0.0137)Gly+(0.1050)Tyr+(-0.0184)Val+(-0.0221)Orn+(-0.1288)Trp;0.945,0.962,0.844,0.930,0.917,0.902,0.927,(16.0086)+(-0.1827)Asn+(-0.0115)Gly+(-0.0089)Ala+(0.1042)Tyr+(-0.0142)Val+(-0.1271)Trp;0.945,0.959,0.858,0.907,0.881,0.869,0.903,(11.1280)+(-0.0097)Gly+(-0.0205)Ala+(0.1331)Tyr+(-0.0405)Lys+(0.0966)Ile+(-0.1673)Trp;0.944,0.960,0.895,0.910,0.882,0.877,0.906,(11.7959)+(-0.0251)Ala+(-0.0900)Cit+(0.1411)Tyr+(-0.0407)Lys+(0.1263)Ile+(-0.1856)Trp;0.944,0.962,0.853,0.934,0.917,0.918,0.932,(17.5529)+(-0.2011)Asn+(-0.0145)Gly+(0.1006)Tyr+(-0.0198)Val+(-0.0362)Phe+(-0.1205)Trp;0.944,0.961,0.848,0.931,0.914,0.912,0.929,(16.2146)+(-0.1878)Asn+(-0.0134)Gly+(-0.0126)Thr+(0.0973)Tyr+(-0.0189)Val+(-0.1200)Trp;0.944,0.960,0.854,0.930,0.911,0.912,0.928,(15.2276)+(-0.1416)Asn+(-0.0098)Gly+(-0.0117)Ala+(0.1260)Tyr+(-0.0207)Lys+(-0.1443)Trp;0.944,0.960,0.858,0.933,0.914,0.920,0.931,(16.

1002)+(-0.1600)Asn+(-0.0131)Gly+(0.1159)Tyr+(-0.0179)Val+(-0.1568)Met
+(-0.1278)Trp;0.943,0.962,0.843,0.931,0.913,0.912,0.929,(16.4600)+(-0
.2005)Asn+(-0.0145)Gly+(-0.0054)Pro+(0.0991)Tyr+(-0.0195)Val+(-0.1249
)Trp;0.942,0.960,0.867,0.933,0.916,0.918,0.931,(16.5160)+(-0.1988)Asn
+(-0.0140)Gly+(-0.0190)Cit+(0.0919)Tyr+(-0.0186)Val+(-0.1282)Trp;0.94
1,0.962,0.854,0.932,0.916,0.912,0.930,(14.9371)+(-0.2207)Asn+(-0.0147
)Gly+(0.0048)Gln+(0.0831)Tyr+(-0.0217)Val+(-0.1161)Trp;0.941,0.960,0.
871,0.932,0.918,0.914,0.931,(16.5717)+(-0.1866)Asn+(-0.0139)Gly+(-0.0
240)His+(0.0870)Tyr+(-0.0167)Val+(-0.1176)Trp;0.941,0.954,0.826,0.918
,0.901,0.889,0.915,(12.1179)+(-0.0106)Gly+(-0.0117)Ala+(0.1440)Tyr+(-
0.2897)Met+(-0.1605)Trp;0.940,0.956,0.830,0.924,0.906,0.902,0.921,(12
.7376)+(-0.0103)Gly+(-0.0115)Ala+(0.1511)Tyr+(-0.2252)Met+(-0.0157)Ly
s+(-0.1579)Trp;0.940,0.955,0.817,0.919,0.906,0.889,0.917,(12.0399)+(-
0.0119)Gly+(-0.0131)Ala+(0.1263)Tyr+(-0.0268)Lys+(-0.1583)Trp;0.940,0
.957,0.868,0.930,0.912,0.916,0.928,(15.4763)+(-0.1546)Asn+(-0.0097)Gl
y+(-0.0124)Ala+(-0.0541)Cit+(0.1083)Tyr+(-0.1552)Trp;0.940,0.959,0.85
5,0.931,0.906,0.922,0.929,(15.6243)+(-0.1898)Asn+(-0.0134)Gly+(0.1050
)Tyr+(-0.0275)Orn+(-0.0239)Leu+(-0.1400)Trp;0.940,0.955,0.816,0.918,0
.902,0.888,0.915,(12.3851)+(-0.0099)Gly+(-0.0114)Ala+(0.1608)Tyr+(-0.
2771)Met+(-0.0286)Orn+(-0.1649)Trp;0.940,0.958,0.854,0.928,0.914,0.90
5,0.926,(14.7420)+(-0.1429)Asn+(-0.0107)Gly+(-0.0122)Ala+(-0.0172)Arg
+(0.1125)Tyr+(-0.1549)Trp;0.939,0.959,0.843,0.925,0.903,0.907,0.923,(
12.8941)+(-0.0112)Gly+(-0.0131)Ala+(-0.0453)Cit+(0.1270)Tyr+(-0.0236)
Lys+(-0.1657)Trp;0.939,0.959,0.811,0.924,0.910,0.896,0.922,(13.1099)+
(-0.0121)Gly+(-0.0133)Ala+(0.1333)Tyr+(-0.0249)Lys+(-0.0329)Phe+(-0.1
560)Trp;0.939,0.955,0.837,0.921,0.902,0.898,0.919,(14.6581)+(-0.1573)
Asn+(-0.0099)Gly+(-0.0122)Ala+(0.1240)Tyr+(-0.0316)Orn+(-0.1517)Trp;0
.939,0.955,0.845,0.914,0.907,0.872,0.911,(10.6239)+(0.0293)Ser+(-0.01

48)Gly+(-0.0125)Ala+(0.1523)Tyr+(-0.3524)Met+(-0.1562)Trp;0.939,0.955,0.825,0.919,0.905,0.889,0.916,(12.5337)+(-0.0111)Gly+(-0.0104)Ala+(0.1436)Tyr+(-0.0056)Val+(-0.2875)Met+(-0.1538)Trp;0.939,0.959,0.854,0.925,0.906,0.904,0.923,(14.3597)+(-0.1172)Asn+(-0.0097)Gly+(-0.0114)Ala+(0.1303)Tyr+(-0.1746)Met+(-0.1492)Trp;0.939,0.959,0.881,0.937,0.916,0.934,0.936,(15.9776)+(-0.1880)Asn+(-0.0136)Gly+(-0.0357)Cit+(0.0894)Tyr+(-0.0223)Leu+(-0.1425)Trp;0.938,0.957,0.871,0.939,0.922,0.935,0.938,(15.9323)+(-0.1756)Asn+(-0.0140)Gly+(-0.0180)Arg+(0.0973)Tyr+(-0.0263)Leu+(-0.1424)Trp;0.938,0.955,0.866,0.919,0.914,0.879,0.916,(13.1790)+(0.0371)Ser+(-0.2085)Asn+(-0.0159)Gly+(-0.0138)Ala+(0.1030)Tyr+(-0.1369)Trp;0.938,0.960,0.848,0.926,0.911,0.898,0.923,(16.3220)+(-0.2038)Asn+(-0.0147)Gly+(0.0915)Tyr+(-0.0362)Val+(0.0305)Leu+(-0.1208)Trp;0.938,0.957,0.869,0.935,0.914,0.931,0.934,(15.2147)+(-0.1496)Asn+(-0.0130)Gly+(0.1127)Tyr+(-0.1625)Met+(-0.0211)Leu+(-0.1395)Trp;0.938,0.957,0.857,0.930,0.908,0.917,0.928,(15.5841)+(-0.1546)Asn+(-0.0144)Ala+(-0.0496)Cit+(0.1320)Tyr+(-0.0194)Lys+(-0.1521)Trp;0.938,0.952,0.844,0.920,0.907,0.894,0.918,(14.3471)+(-0.1601)Asn+(-0.0107)Gly+(-0.0126)Ala+(0.1033)Tyr+(-0.1466)Trp;0.938,0.958,0.876,0.927,0.913,0.905,0.925,(15.6470)+(-0.1385)Asn+(-0.0102)Gly+(-0.0477)His+(-0.0111)Ala+(0.0965)Tyr+(-0.1270)Trp;0.938,0.957,0.870,0.898,0.899,0.826,0.894,(14.4031)+(-0.1984)Asn+(-0.0182)Ala+(0.0946)Tyr+(-0.0405)Val+(0.1414)Ile+(-0.1133)Trp;0.938,0.955,0.829,0.893,0.863,0.846,0.888,(10.1586)+(-0.0245)Ala+(0.1579)Tyr+(-0.0387)Orn+(-0.0396)Lys+(0.1157)Ile+(-0.1772)Trp;0.938,0.955,0.826,0.922,0.896,0.910,0.920,(12.5518)+(-0.0137)Gly+(0.1473)Tyr+(-0.0099)Val+(-0.3155)Met+(-0.0247)Orn+(-0.1580)Trp;0.938,0.957,0.860,0.924,0.911,0.896,0.921,(13.3437)+(-0.0116)Gly+(-0.0466)His+(-0.0118)Ala+(0.1118)Tyr+(-0.0191)Lys+(-0.1384)Trp;0.938,0.954,0.800,0.914,0.895,0.883,0.911,(12.3842)+(-0.0102)Gly+(-0.0213)Thr+(-0.012

9)Ala+(0.1337)Tyr+(-0.0221)Lys+(-0.1492)Trp;0.937,0.955,0.897,0.926,0.913,0.905,0.924,(14.7173)+(0.0403)Ser+(-0.2536)Asn+(-0.0201)Gly+(0.0863)Tyr+(-0.0344)Leu+(-0.1182)Trp;0.937,0.957,0.875,0.930,0.917,0.910,0.928,(13.9507)+(-0.0120)Gly+(-0.0592)His+(-0.0114)Ala+(-0.0282)Arg+(0.1050)Tyr+(-0.1471)Trp;0.937,0.953,0.829,0.895,0.870,0.849,0.891,(10.7321)+(-0.0256)Thr+(-0.0233)Ala+(0.1469)Tyr+(-0.0383)Lys+(0.1041)Ile+(-0.1579)Trp;0.937,0.954,0.831,0.918,0.902,0.890,0.915,(12.0889)+(-0.0104)Gly+(-0.0121)Ala+(0.0017)Pro+(0.1426)Tyr+(-0.2931)Met+(-0.1599)Trp;0.937,0.954,0.846,0.922,0.907,0.899,0.920,(12.9961)+(-0.0100)Gly+(-0.0118)Ala+(-0.0441)Cit+(0.1441)Tyr+(-0.2649)Met+(-0.1673)Trp;0.937,0.953,0.882,0.909,0.904,0.858,0.905,(16.0905)+(-0.2100)Asn+(-0.0159)Gly+(0.0744)Tyr+(-0.0462)Val+(0.1138)Ile+(-0.1069)Trp;0.937,0.958,0.824,0.926,0.909,0.904,0.924,(12.5889)+(-0.0119)Gly+(-0.0128)Ala+(-0.0188)Arg+(0.1309)Tyr+(-0.0213)Lys+(-0.1665)Trp;0.937,0.949,0.834,0.920,0.900,0.905,0.918,(12.4904)+(-0.0144)Gly+(0.1329)Tyr+(-0.0120)Val+(-0.3245)Met+(-0.1515)Trp;0.937,0.954,0.869,0.933,0.916,0.924,0.932,(15.5873)+(-0.1951)Asn+(-0.0141)Gly+(0.0873)Tyr+(-0.0276)Leu+(-0.1330)Trp;0.937,0.953,0.854,0.909,0.893,0.870,0.905,(11.0454)+(-0.0094)Gly+(-0.0170)Ala+(0.1417)Tyr+(-0.3112)Met+(0.0646)Ile+(-0.1681)Trp;0.937,0.954,0.854,0.922,0.907,0.899,0.920,(13.3413)+(-0.0105)Gly+(-0.0412)His+(-0.0108)Ala+(0.1291)Tyr+(-0.2305)Met+(-0.1422)Trp;0.936,0.957,0.852,0.916,0.900,0.884,0.913,(12.9722)+(-0.0118)Gly+(-0.0613)His+(-0.0119)Ala+(0.1048)Tyr+(-0.0249)Orn+(-0.1395)Trp;0.936,0.956,0.816,0.920,0.906,0.889,0.917,(12.0468)+(-0.0119)Gly+(-0.0131)Ala+(0.1262)Tyr+(-0.0001)Val+(-0.0267)Lys+(-0.1582)Trp;0.936,0.953,0.864,0.917,0.908,0.881,0.914,(12.9335)+(-0.0123)Gly+(-0.0681)His+(-0.0121)Ala+(0.0875)Tyr+(-0.1326)Trp;0.936,0.955,0.901,0.925,0.901,0.912,0.923,(13.6542)+(0.0419)Ser+(-0.2060)Asn+(-0.0196)Gly+(0.1123)Tyr+(-0.0301)Lys+(-0.1388)Tr

p;0.936,0.953,0.842,0.927,0.913,0.909,0.925,(12.8082)+(-0.0106)Gly+(-0.0115)Ala+(-0.0194)Arg+(0.1488)Tyr+(-0.2507)Met+(-0.1681)Trp;0.936,0.956,0.870,0.934,0.913,0.928,0.932,(15.6590)+(-0.1730)Asn+(-0.0135)Gly+(0.1043)Tyr+(-0.0168)Lys+(-0.0177)Leu+(-0.1380)Trp;0.936,0.953,0.824,0.919,0.904,0.892,0.916,(12.4561)+(-0.0107)Gly+(-0.0119)Ala+(0.1455)Tyr+(-0.2805)Met+(-0.0109)Phe+(-0.1597)Trp;0.936,0.953,0.919,0.927,0.911,0.911,0.925,(14.4885)+(0.0371)Ser+(-0.1934)Asn+(-0.0192)Gly+(-0.0699)His+(0.0714)Tyr+(-0.1141)Trp;0.936,0.954,0.856,0.925,0.909,0.905,0.923,(14.9924)+(-0.1717)Asn+(-0.0154)Ala+(-0.0627)Cit+(0.1122)Tyr+(-0.1563)Trp;0.936,0.957,0.812,0.921,0.907,0.890,0.918,(11.1096)+(-0.0121)Gly+(0.0026)Gln+(-0.0134)Ala+(0.1238)Tyr+(-0.0287)Lys+(-0.1563)Trp;0.936,0.958,0.839,0.923,0.905,0.896,0.920,(14.8034)+(-0.1502)Asn+(-0.0120)Ala+(0.1354)Tyr+(-0.0098)Val+(-0.1821)Met+(-0.1355)Trp;0.936,0.954,0.808,0.916,0.895,0.889,0.913,(12.0702)+(-0.0116)Gly+(-0.0130)Ala+(0.1357)Tyr+(-0.0198)Orn+(-0.0236)Lys+(-0.1620)Trp;0.936,0.956,0.838,0.925,0.914,0.898,0.923,(16.1477)+(-0.1582)Asn+(-0.0109)Gly+(-0.0127)Ala+(0.1174)Tyr+(-0.0509)Phe+(-0.1427)Trp;0.936,0.957,0.863,0.928,0.906,0.914,0.926,(14.8516)+(-0.1293)Asn+(-0.0140)Ala+(-0.0527)Cit+(0.1374)Tyr+(-0.1708)Met+(-0.1572)Trp;0.936,0.957,0.867,0.922,0.905,0.898,0.920,(14.7218)+(-0.1226)Asn+(-0.0374)His+(-0.0134)Ala+(0.1252)Tyr+(-0.1562)Met+(-0.1332)Trp;0.936,0.956,0.834,0.920,0.908,0.887,0.917,(12.0287)+(-0.0114)Gly+(-0.0139)Ala+(0.0044)Pro+(0.1231)Tyr+(-0.0287)Lys+(-0.1566)Trp;0.936,0.952,0.843,0.932,0.913,0.929,0.931,(13.3270)+(-0.0143)Gly+(-0.0226)Arg+(0.1389)Tyr+(-0.0121)Val+(-0.2773)Met+(-0.1600)Trp;0.936,0.956,0.857,0.928,0.897,0.926,0.926,(14.8306)+(-0.1568)Asn+(-0.0131)Gly+(0.1191)Tyr+(-0.0233)Orn+(-0.0198)Lys+(-0.1540)Trp;0.935,0.956,0.844,0.928,0.917,0.904,0.926,(15.3753)+(-0.1731)Asn+(-0.0109)Gly+(-0.0106)Ala+(0.1040)Tyr+(-0.0165)Leu+(-0.1356)Trp;0.935,0.955

,0.888,0.932,0.917,0.920,0.931,(16.0507)+(-0.1678)Asn+(-0.0136)Gly+(-0.0415)His+(0.0809)Tyr+(-0.0169)Leu+(-0.1231)Trp;0.935,0.955,0.854,0.932,0.912,0.924,0.931,(15.5051)+(-0.1765)Asn+(-0.0130)Gly+(-0.0162)Thr+(0.0958)Tyr+(-0.0254)Leu+(-0.1287)Trp;0.935,0.949,0.872,0.924,0.902,0.917,0.923,(13.0474)+(-0.0137)Gly+(-0.0518)His+(0.1132)Tyr+(-0.2621)Met+(-0.1438)Trp;0.935,0.951,0.840,0.919,0.907,0.892,0.917,(11.1397)+(0.0267)Ser+(-0.0184)Gly+(0.1398)Tyr+(-0.0125)Val+(-0.3839)Met+(-0.1473)Trp;0.935,0.955,0.817,0.920,0.902,0.897,0.918,(12.0468)+(-0.0123)Gly+(-0.0132)Ala+(-0.0301)Arg+(0.1297)Tyr+(-0.0248)Orn+(-0.1789)Trp;0.935,0.956,0.849,0.927,0.896,0.922,0.925,(14.9546)+(-0.1717)Asn+(0.1391)Tyr+(-0.0155)Val+(-0.2103)Met+(-0.0281)Orn+(-0.1382)Trp;0.935,0.955,0.864,0.922,0.911,0.893,0.920,(14.3376)+(0.0176)Ser+(-0.1990)Asn+(-0.0167)Ala+(-0.0661)Cit+(0.1131)Tyr+(-0.1522)Trp;0.935,0.955,0.801,0.916,0.900,0.883,0.913,(14.0874)+(-0.1543)Asn+(-0.0185)Thr+(-0.0148)Ala+(0.1343)Tyr+(-0.0276)Orn+(-0.1442)Trp;0.935,0.952,0.840,0.914,0.900,0.880,0.911,(10.8203)+(0.023

6)Ser+(-0.0155)Gly+(-0.0140)Ala+(0.1298)Tyr+(-0.0314)Lys+(-0.1545)Trp;0.935,0.950,0.811,0.914,0.900,0.886,0.912,(12.2540)+(-0.0097)Gly+(-0.0151)Thr+(-0.0119)Ala+(0.1445)Tyr+(-0.2381)Met+(-0.1539)Trp;0.935,0.955,0.823,0.919,0.900,0.896,0.917,(14.7476)+(-0.1586)Asn+(-0.0144)Ala+(0.1432)Tyr+(-0.0249)Orn+(-0.0188)Lys+(-0.1482)Trp;0.935,0.957,0.822,0.920,0.900,0.897,0.918,(14.0739)+(-0.1276)Asn+(-0.0136)Ala+(0.1568)Tyr+(-0.1877)Met+(-0.0328)Orn+(-0.1544)Trp;0.935,0.956,0.866,0.923,0.907,0.897,0.920,(13.1599)+(-0.0120)Gly+(-0.0565)His+(-0.0124)Ala+(-0.0288)Cit+(0.0917)Tyr+(-0.1422)Trp;0.935,0.954,0.848,0.919,0.912,0.883,0.916,(14.7472)+(-0.0125)Gly+(-0.0667)His+(-0.0122)Ala+(0.1020)Tyr+(-0.0514)Phe+(-0.1290)Trp;0.934,0.956,0.817,0.920,0.903,0.892,0.917,(15.0014)+(-0.1917)Asn+(-0.0131)Ala+(0.1274)Tyr+(-0.0092)Val+(-0.0307)O

rn+(-0.1386)Trp;0.934,0.954,0.826,0.918,0.901,0.889,0.915,(12.1119)+(-0.0106)Gly+(-0.0118)Ala+(0.1440)Tyr+(-0.2899)Met+(0.0002)Leu+(-0.1606)Trp;0.934,0.953,0.821,0.916,0.904,0.882,0.913,(10.9010)+(-0.0107)Gly+(0.0033)Gln+(-0.0120)Ala+(0.1417)Tyr+(-0.3117)Met+(-0.1582)Trp;0.934,0.954,0.862,0.895,0.872,0.845,0.891,(10.1814)+(-0.0252)Ala+(0.0068)Pro+(0.1339)Tyr+(-0.0472)Lys+(0.1043)Ile+(-0.1663)Trp;0.934,0.955,0.840,0.923,0.904,0.905,0.921,(14.8658)+(-0.1515)Asn+(-0.0183)Thr+(-0.0150)Ala+(-0.0497)Cit+(0.1206)Tyr+(-0.1477)Trp;0.934,0.953,0.851,0.928,0.897,0.929,0.926,(14.1169)+(-0.1226)Asn+(-0.0124)Gly+(0.1356)Tyr+(-0.2046)Met+(-0.0316)Orn+(-0.1602)Trp;0.934,0.955,0.818,0.921,0.905,0.897,0.919,(14.6476)+(-0.1394)Asn+(-0.0183)Thr+(-0.0143)Ala+(0.1373)Tyr+(-0.0194)Lys+(-0.1376)Trp;0.934,0.952,0.899,0.925,0.909,0.910,0.924,(12.5242)+(0.0388)Ser+(-0.1621)Asn+(-0.0187)Gly+(0.1221)Tyr+(-0.2685)Met+(-0.1466)Trp;0.934,0.949,0.845,0.891,0.865,0.846,0.887,(10.1038)+(-0.0243)Ala+(0.1393)Tyr+(-0.0448)Lys+(0.1060)Ile+(-0.1693)Trp;0.934,0.948,0.834,0.921,0.893,0.918,0.920,(11.7488)+(-0.0134)Gly+(0.1493)Tyr+(-0.3266)Met+(-0.0313)Orn+(-0.1722)Trp;0.934,0.953,0.828,0.920,0.908,0.891,0.917,(14.4137)+(-0.1406)Asn+(-0.0093)Gly+(-0.0184)Thr+(-0.0125)Ala+(0.1134)Tyr+(-0.1400)Trp;0.934,0.951,0.861,0.925,0.901,0.918,0.923,(13.0882)+(-0.0131)Gly+(-0.0449)His+(0.1309)Tyr+(-0.2602)Met+(-0.0256)Orn+(-0.1508)Trp;0.934,0.952,0.831,0.920,0.908,0.893,0.918,(14.6503)+(-0.1578)Asn+(-0.0147)Ala+(0.1316)Tyr+(-0.0230)Lys+(-0.1437)Trp;0.934,0.953,0.830,0.923,0.904,0.907,0.921,(11.4657)+(-0.0146)Gly+(0.0028)Gln+(0.1308)Tyr+(-0.0122)Val+(-0.3437)Met+(-0.1493)Trp

[0373] ［実施例８で探索されたロジスティック回帰式の一覧（その２）］

以下に、前述した実施例８で探索されたロジスティック回帰式を列挙する。なお、式の前には、その式について得られた、「バリデーション有りでの膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣの値」、「バリデーション無しでの膵臓

癌群と乳癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と健常群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と他癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値」、および「膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣの値の平均値」を、さらに列挙する。

[0374] 0.878,0.923,0.927,0.909,0.900,0.901,0.908,(9.6001)+(0.0010)Gln+(-0.1052)His+(-0.0386)Arg+(0.0762)Tyr+(0.0049)Ile+(-0.1257)Trp;0.856,0.914,0.927,0.906,0.919,0.882,0.905,(8.8698)+(0.0050)Gln+(-0.1070)His+(-0.0297)Cit+(-0.0255)Arg+(0.0249)Ile+(-0.0876)Trp;0.878,0.925,0.926,0.915,0.905,0.913,0.914,(9.4249)+(0.0020)Gln+(-0.0976)His+(-0.0257)Cit+(-0.0351)Arg+(0.0781)Tyr+(-0.1311)Trp;0.856,0.909,0.926,0.899,0.915,0.871,0.898,(8.5944)+(0.0042)Gln+(-0.1176)His+(-0.0314)Arg+(0.0224)Ile+(0.0210)Phe+(-0.0870)Trp;0.883,0.923,0.925,0.912,0.899,0.912,0.911,(9.9732)+(-0.0965)His+(-0.0219)Cit+(-0.0338)Arg+(0.0784)Tyr+(0.0045)Ile+(-0.1313)Trp;0.852,0.905,0.925,0.890,0.905,0.857,0.889,(9.7626)+(-0.0840)His+(-0.0351)Arg+(0.0775)Ile+(-0.0405)Leu+(0.0236)Phe+(-0.0852)Trp;0.859,0.911,0.924,0.898,0.906,0.872,0.896,(8.8638)+(0.0075)Gln+(-0.1049)His+(-0.0193)Arg+(-0.0250)Lys+(0.0456)Ile+(-0.0809)Trp;0.877,0.922,0.924,0.908,0.907,0.891,0.907,(9.8083)+(-0.0784)His+(-0.0460)Arg+(0.0750)Tyr+(0.0530)Ile+(-0.0358)Leu+(-0.1225)Trp;0.879,0.923,0.923,0.908,0.898,0.901,0.907,(9.8751)+(-0.1039)His+(-0.0376)Arg+(0.0774)Tyr+(0.0043)Ile+(0.0030)Phe+(-0.1276)Trp;0.852,0.909,0.923,0.898,0.912,0.869,0.897,(9.6098)+(0.0024)Gln+(-0.0889)His+(-0.0357)Arg+(0.0729)Ile+(-0.0357)Leu+(-0.0792)Trp;0.888,0.924,0.923,0.909,0.900,0.901,0.908,(9.9446)+(-0.1035)His+(-0.0375)Arg+(0.0780)Tyr+(0.0046)Ile+(-0.1272)Trp;0.839,0.905,0.922,0.894,0.910,0.864,0.893,(10.3931)+(-0.0806)His+(-0.0101)Cit+(-0.0305)Arg+(0.0755)Ile+(-0.0371)Leu+(-0.0825)Trp;0.883,0.

924,0.922,0.911,0.901,0.905,0.910,(9.7155)+(0.0010)Gln+(-0.1041)His+(-0.0384)Arg+(0.0793)Tyr+(-0.1277)Trp;0.879,0.923,0.922,0.913,0.900,0.914,0.912,(10.0421)+(-0.0958)His+(-0.0218)Cit+(-0.0337)Arg+(0.0809)Tyr+(0.0010)Phe+(-0.1332)Trp;0.875,0.923,0.922,0.910,0.901,0.904,0.909,(9.5308)+(0.0011)Gln+(-0.1051)His+(-0.0387)Arg+(0.0778)Tyr+(0.0054)Phe+(-0.1280)Trp;0.886,0.923,0.921,0.913,0.900,0.914,0.912,(10.0671)+(-0.0956)His+(-0.0220)Cit+(-0.0337)Arg+(0.0812)Tyr+(-0.1331)Trp;0.867,0.907,0.921,0.900,0.917,0.873,0.899,(9.2775)+(0.0038)Gln+(-0.1150)His+(-0.0292)Arg+(0.0247)Ile+(-0.0826)Trp;0.893,0.924,0.921,0.910,0.898,0.905,0.909,(10.0339)+(-0.1026)His+(-0.0374)Arg+(0.0809)Tyr+(-0.1290)Trp;0.883,0.924,0.920,0.909,0.898,0.903,0.908,(9.9431)+(-0.1031)His+(-0.0375)Arg+(0.0799)Tyr+(0.0037)Phe+(-0.1294)Trp;0.856,0.907,0.920,0.895,0.908,0.865,0.893,(10.4038)+(-0.0830)His+(-0.0327)Arg+(0.0770)Ile+(-0.0383)Leu+(-0.0808)Trp;0.857,0.912,0.920,0.898,0.905,0.872,0.897,(8.3365)+(0.0077)Gln+(-0.0942)His+(-0.0392)Cit+(-0.0285)Lys+(0.0450)Ile+(-0.0831)Trp;0.854,0.902,0.918,0.895,0.913,0.867,0.894,(10.1863)+(-0.1042)His+(-0.0185)Cit+(-0.0211)Arg+(0.0244)Ile+(0.0154)Phe+(-0.0922)Trp;0.845,0.897,0.918,0.883,0.897,0.851,0.882,(9.0563)+(-0.0936)His+(-0.0351)Cit+(0.0462)Ile+(-0.0209)Leu+(0.0101)Phe+(-0.0839)Trp;0.873,0.903,0.918,0.896,0.913,0.870,0.895,(10.6087)+(-0.1088)His+(-0.0235)Arg+(0.0256)Ile+(-0.0853)Trp;0.859,0.910,0.918,0.890,0.896,0.858,0.888,(8.0345)+(0.0061)Gln+(-0.1078)His+(-0.0304)Lys+(0.0433)Ile+(0.0228)Phe+(-0.0800)Trp;0.864,0.903,0.917,0.894,0.910,0.866,0.893,(10.1783)+(-0.1106)His+(-0.0248)Arg+(0.0239)Ile+(0.0167)Phe+(-0.0888)Trp;0.845,0.912,0.916,0.893,0.901,0.863,0.892,(10.8910)+(-0.0765)His+(-0.0203)Arg+(-0.0162)Lys+(0.0819)Ile+(-0.0320)Leu+(-0.0813)Trp;0.862,0.906,0.916,0.892,0.904,0.861,0.890,(10.5355)+(-0.0976)His+(-0.0126)Arg+(-0.0200)Lys+(0.0412)Ile+(0.0220)Phe+(-0.0891)Trp;0.885,0.921,0.916,0.909,0.

900,0.905,0.909,(10.2678)+(-0.0925)His+(-0.0396)Arg+(0.0892)Tyr+(-0.0102)Leu+(-0.1337)Trp;0.851,0.895,0.915,0.885,0.899,0.857,0.884,(9.3770)+(-0.0927)His+(-0.0351)Cit+(0.0470)Ile+(-0.0205)Leu+(-0.0821)Trp;0.886,0.936,0.915,0.926,0.917,0.923,0.925,(11.1011)+(-0.1844)Asn+(0.0062)Gln+(-0.0780)His+(-0.0271)Arg+(0.0716)Tyr+(-0.1071)Trp;0.876,0.920,0.915,0.909,0.901,0.903,0.908,(10.0831)+(-0.0930)His+(-0.0400)Arg+(0.0877)Tyr+(-0.0108)Leu+(0.0084)Phe+(-0.1348)Trp;0.874,0.921,0.915,0.910,0.901,0.905,0.909,(10.1698)+(0.0003)Gln+(-0.0931)His+(-0.0398)Arg+(0.0886)Tyr+(-0.0100)Leu+(-0.1333)Trp;0.851,0.905,0.915,0.890,0.899,0.862,0.889,(10.2816)+(-0.0898)His+(-0.0242)Cit+(-0.0225)Lys+(0.0415)Ile+(0.0199)Phe+(-0.0906)Trp;0.860,0.902,0.915,0.897,0.915,0.872,0.896,(10.5947)+(-0.1021)His+(-0.0201)Cit+(-0.0197)Arg+(0.0261)Ile+(-0.0894)Trp;0.848,0.898,0.914,0.879,0.894,0.841,0.877,(8.7586)+(-0.1076)His+(0.0447)Ile+(-0.0216)Leu+(0.0086)Phe+(-0.0739)Trp;0.880,0.923,0.914,0.912,0.900,0.911,0.911,(10.3061)+(-0.0863)His+(-0.0210)Cit+(-0.0361)Arg+(0.0895)Tyr+(-0.0100)Leu+(-0.1375)Trp;0.860,0.914,0.914,0.902,0.919,0.868,0.900,(8.7347)+(0.0074)Gln+(-0.1182)His+(-0.0271)Arg+(-0.0340)Orn+(0.0347)Ile+(-0.0829)Trp;0.840,0.896,0.913,0.886,0.899,0.859,0.885,(8.9963)+(0.0011)Gln+(-0.0949)His+(-0.0380)Cit+(0.0440)Ile+(-0.0187)Leu+(-0.0821)Trp;0.889,0.938,0.913,0.927,0.909,0.931,0.926,(12.9372)+(-0.1672)Asn+(-0.0593)His+(-0.0312)Cit+(-0.0174)Arg+(0.0835)Tyr+(-0.1279)Trp;0.873,0.924,0.913,0.911,0.918,0.887,0.910,(14.1381)+(-0.1398)Asn+(-0.0613)His+(-0.0223)Cit+(-0.0137)Lys+(0.0219)Ile+(-0.0808)Trp;0.850,0.908,0.913,0.888,0.894,0.858,0.886,(8.9650)+(0.0048)Gln+(-0.0968)His+(-0.0279)Lys+(0.0630)Ile+(-0.0151)Leu+(-0.0723)Trp;0.829,0.893,0.913,0.880,0.893,0.848,0.878,(6.9815)+(0.0070)Gln+(-0.1203)His+(-0.0170)Arg+(-0.0236)Lys+(0.0803)Ile+(-0.0295)Leu;0.865,0.906,0.913,0.890,0.897,0.861,0.888,(8.8005)+(0.0058)Gln+(-0.1058)His+(-0.0290)Lys+(

0.0444)Ile+(-0.0755)Trp;0.844,0.903,0.913,0.900,0.917,0.880,0.900,(8.4103)+(0.0059)Gln+(-0.1058)His+(-0.0297)Cit+(-0.0249)Arg+(0.0261)Phe+(-0.0931)Trp;0.853,0.897,0.912,0.885,0.895,0.860,0.884,(9.5213)+(-0.1040)His+(-0.0362)Cit+(0.0198)Ile+(0.0084)Phe+(-0.0902)Trp;0.864,0.906,0.912,0.884,0.882,0.860,0.883,(8.2547)+(-0.1087)His+(0.0439)Tyr+(0.0252)Ile+(-0.0164)Leu+(-0.0941)Trp;0.857,0.902,0.912,0.898,0.916,0.875,0.898,(8.8568)+(0.0046)Gln+(-0.1133)His+(-0.0288)Arg+(0.0260)Phe+(-0.0884)Trp;0.850,0.902,0.912,0.898,0.916,0.875,0.898,(8.8496)+(0.0046)Gln+(-0.1137)His+(-0.0288)Arg+(0.0004)Leu+(0.0258)Phe+(-0.0884)Trp;0.854,0.905,0.911,0.893,0.904,0.865,0.892,(11.0651)+(-0.0894)His+(-0.0185)Cit+(-0.0076)Arg+(-0.0192)Lys+(0.0423)Ile+(-0.0880)Trp;0.858,0.895,0.911,0.886,0.898,0.862,0.885,(9.7757)+(-0.1031)His+(-0.0363)Cit+(0.0209)Ile+(-0.0885)Trp;0.843,0.903,0.911,0.888,0.896,0.860,0.886,(10.5209)+(-0.0775)His+(-0.0227)Cit+(-0.0215)Lys+(0.0694)Ile+(-0.0216)Leu+(-0.0811)Trp;0.874,0.924,0.911,0.906,0.912,0.880,0.905,(13.6158)+(-0.1402)Asn+(-0.0713)His+(-0.0156)Lys+(0.0215)Ile+(0.0135)Phe+(-0.0766)Trp;0.845,0.906,0.911,0.905,0.922,0.886,0.905,(9.1990)+(0.0055)Gln+(-0.1051)His+(-0.0314)Cit+(-0.0217)Arg+(0.0038)Leu+(-0.0884)Trp;0.860,0.907,0.910,0.885,0.882,0.862,0.884,(8.3024)+(-0.1085)His+(0.0443)Tyr+(0.0252)Ile+(-0.0163)Leu+(-0.0019)Phe+(-0.0939)Trp;0.855,0.898,0.910,0.880,0.893,0.843,0.878,(9.0287)+(-0.1068)His+(0.0455)Ile+(-0.0213)Leu+(-0.0722)Trp;0.838,0.897,0.910,0.877,0.890,0.840,0.875,(9.1904)+(-0.0011)Gln+(-0.1042)His+(0.0479)Ile+(-0.0234)Leu+(0.0083)Phe+(-0.0747)Trp;0.854,0.907,0.910,0.885,0.890,0.851,0.883,(10.4124)+(-0.0856)His+(-0.0229)Lys+(0.0703)Ile+(-0.0224)Leu+(-0.0752)Trp;0.848,0.906,0.910,0.883,0.889,0.849,0.881,(9.7873)+(-0.0866)His+(-0.0241)Lys+(0.0707)Ile+(-0.0233)Leu+(0.0210)Phe+(-0.0788)Trp;0.917,0.952,0.910,0.908,0.888,0.874,0.905,(12.0134)+(-0.0750)His+(-0.0226)Ala+(0.1357)Tyr+(-0.0433)

Lys+(0.0960)Ile+(-0.1473)Trp;0.864,0.922,0.910,0.906,0.914,0.878,0.905,(13.9693)+(-0.1394)Asn+(-0.0710)His+(-0.0005)Pro+(-0.0147)Lys+(0.0231)Ile+(-0.0734)Trp;0.861,0.910,0.910,0.891,0.881,0.877,0.889,(8.6416)+(-0.0913)His+(-0.0449)Cit+(0.0518)Tyr+(0.0246)Ile+(-0.0160)Leu+(-0.1099)Trp;0.846,0.907,0.910,0.891,0.904,0.857,0.890,(10.8127)+(-0.0790)His+(-0.0271)Arg+(-0.0252)Orn+(0.0869)Ile+(-0.0403)Leu+(-0.0825)Trp;0.868,0.906,0.909,0.893,0.906,0.862,0.891,(11.0959)+(-0.0955)His+(-0.0113)Arg+(-0.0192)Lys+(0.0422)Ile+(-0.0847)Trp;0.857,0.902,0.909,0.891,0.901,0.867,0.890,(10.8521)+(-0.0882)His+(-0.0242)Cit+(-0.0213)Lys+(0.0424)Ile+(-0.0870)Trp;0.847,0.897,0.909,0.880,0.893,0.844,0.878,(9.4678)+(-0.0011)Gln+(-0.1032)His+(0.0488)Ile+(-0.0232)Leu+(-0.0731)Trp;0.898,0.934,0.909,0.921,0.905,0.922,0.921,(9.9364)+(-0.0678)His+(-0.0228)Arg+(0.1032)Tyr+(-0.2902)Met+(0.0304)Phe+(-0.1309)Trp;0.882,0.922,0.909,0.907,0.915,0.879,0.905,(13.9887)+(-0.1405)Asn+(-0.0704)His+(-0.0149)Lys+(0.0224)Ile+(-0.0735)Trp;0.867,0.921,0.909,0.906,0.915,0.879,0.905,(13.9854)+(-0.1386)Asn+(-0.0701)His+(-0.0064)Met+(-0.0147)Lys+(0.0224)Ile+(-0.0733)Trp;0.869,0.922,0.909,0.906,0.915,0.879,0.905,(13.9674)+(-0.1414)Asn+(-0.0703)His+(0.0010)Arg+(-0.0152)Lys+(0.0223)Ile+(-0.0730)Trp;0.848,0.898,0.908,0.888,0.901,0.862,0.887,(8.7919)+(0.0025)Gln+(-0.1058)His+(-0.0429)Cit+(0.0193)Ile+(-0.0876)Trp;0.902,0.940,0.908,0.926,0.901,0.934,0.925,(12.4034)+(-0.1371)Asn+(-0.0424)His+(-0.0386)Cit+(0.0954)Tyr+(-0.1758)Met+(-0.1255)Trp;0.882,0.936,0.908,0.923,0.911,0.919,0.922,(12.7284)+(0.0009)Ser+(-0.1668)Asn+(-0.0699)His+(-0.0230)Arg+(0.0823)Tyr+(-0.1190)Trp;0.870,0.926,0.908,0.913,0.917,0.894,0.912,(13.5663)+(-0.1599)Asn+(-0.0658)His+(-0.0299)Cit+(0.0032)Ile+(0.0120)Phe+(-0.0827)Trp;0.843,0.897,0.908,0.887,0.898,0.863,0.886,(8.4470)+(0.0027)Gln+(-0.1069)His+(-0.0432)Cit+(0.0178)Ile+(0.0099)Phe+(-0.0896)Trp;0.838,0.890,0.908,0.877,0.890,0.846,0.876,(6.1

643)+(0.0088)Gln+(-0.1408)His+(-0.0124)Arg+(-0.0275)Lys+(0.0435)Ile+(0.0104)Phe;0.895,0.936,0.908,0.924,0.909,0.926,0.924,(9.5592)+(0.0028)Gln+(-0.0715)His+(-0.0243)Arg+(0.1018)Tyr+(-0.2678)Met+(-0.1206)Trp;0.893,0.936,0.908,0.923,0.911,0.919,0.922,(12.7996)+(-0.1646)Asn+(-0.0701)His+(-0.0229)Arg+(0.0820)Tyr+(-0.1195)Trp;0.887,0.936,0.908,0.924,0.912,0.923,0.924,(12.9743)+(-0.1657)Asn+(-0.0693)His+(-0.0222)Arg+(0.0833)Tyr+(-0.0068)Phe+(-0.1184)Trp;0.872,0.926,0.908,0.917,0.926,0.897,0.916,(10.7486)+(-0.1900)Asn+(0.0100)Gln+(-0.0896)His+(-0.0197)Arg+(0.0165)Phe+(-0.0661)Trp;0.868,0.921,0.908,0.906,0.912,0.882,0.905,(14.1516)+(-0.0023)Ser+(-0.1355)Asn+(-0.0708)His+(-0.0148)Lys+(0.0225)Ile+(-0.0756)Trp;0.858,0.902,0.908,0.900,0.918,0.877,0.899,(9.6592)+(0.0042)Gln+(-0.1120)His+(-0.0255)Arg+(0.0026)Leu+(-0.0828)Trp;0.844,0.896,0.907,0.873,0.878,0.839,0.871,(7.1016)+(0.0059)Gln+(-0.1236)His+(-0.0282)Lys+(0.0739)Ile+(-0.0244)Leu;0.833,0.904,0.907,0.894,0.909,0.865,0.893,(9.3694)+(0.0046
)Gln+(-0.1205)His+(-0.0238)Arg+(-0.0096)Pro+(0.0380)Ile+(-0.0832)Trp;0.915,0.952,0.907,0.929,0.911,0.919,0.927,(13.1055)+(0.0246)Ser+(-0.1652)Asn+(-0.0220)Gly+(-0.0550)His+(0.0798)Tyr+(-0.1402)Trp;0.871,0.924,0.907,0.914,0.918,0.898,0.913,(13.8954)+(-0.1569)Asn+(-0.0662)His+(-0.0271)Cit+(-0.0013)Arg+(0.0056)Ile+(-0.0798)Trp;0.869,0.926,0.907,0.913,0.917,0.894,0.912,(13.7453)+(-0.1599)Asn+(-0.0648)His+(-0.0283)Cit+(-0.0018)Arg+(0.0136)Phe+(-0.0841)Trp;0.865,0.917,0.907,0.889,0.895,0.850,0.887,(9.5610)+(-0.0680)His+(-0.0515)Arg+(0.0712)Tyr+(-0.0348)Val+(0.0951)Ile+(-0.1019)Trp;0.854,0.900,0.907,0.897,0.917,0.873,0.897,(8.9866)+(0.0046)Gln+(-0.1077)His+(-0.0288)Arg+(-0.0035)Val+(0.0284)Phe+(-0.0874)Trp;0.850,0.906,0.907,0.905,0.922,0.886,0.905,(9.3514)+(0.0054)Gln+(-0.1016)His+(-0.0302)Cit+(-0.0217)Arg+(-0.0878)Trp;0.869,0.907,0.907,0.885,0.879,0.864,0.884,(8.4769)+(-0.1175)His+(0.0479)T

yr+(0.0032)Ile+(-0.1006)Trp;0.854,0.910,0.907,0.898,0.906,0.876,0.897,(12.5091)+(-0.0195)Ser+(-0.0783)His+(-0.0273)Arg+(0.0748)Ile+(-0.0375)Leu+(-0.0924)Trp;0.840,0.897,0.907,0.871,0.875,0.836,0.869,(6.6755)+(0.0060)Gln+(-0.1246)His+(-0.0289)Lys+(0.0743)Ile+(-0.0251)Leu+(0.0113)Phe;0.829,0.894,0.907,0.876,0.884,0.846,0.875,(6.7089)+(0.0072)Gln+(-0.1209)His+(-0.0213)Cit+(-0.0284)Lys+(0.0722)Ile+(-0.0224)Leu;0.879,0.923,0.907,0.909,0.900,0.902,0.908,(10.4669)+(-0.0816)His+(-0.0193)Cit+(-0.0374)Arg+(0.0952)Tyr+(-0.0094)Val+(-0.1365)Trp;0.876,0.925,0.907,0.913,0.917,0.894,0.912,(13.7038)+(-0.1617)Asn+(-0.0645)His+(-0.0298)Cit+(0.0129)Phe+(-0.0835)Trp;0.870,0.923,0.907,0.909,0.915,0.887,0.908,(13.5547)+(-0.1521)Asn+(-0.0781)His+(-0.0086)Arg+(0.0055)Ile+(0.0110)Phe+(-0.0764)Trp;0.860,0.901,0.906,0.883,0.892,0.851,0.881,(10.1853)+(-0.0988)His+(-0.0238)Lys+(0.0415)Ile+(0.0191)Phe+(-0.0843)Trp;0.845,0.907,0.906,0.876,0.886,0.828,0.874,(10.8001)+(-0.0636)His+(-0.0267)Arg+(-0.0353)Val+(-0.0186)Lys+(0.1318)Ile+(-0.0615)Trp;0.840,0.901,0.906,0.874,0.870,0.844,0.872,(6.7544)+(0.0049)Gln+(-0.1223)His+(0.0298)Tyr+(-0.0317)Lys+(0.0706)Ile+(-0.0256)Leu

[0375] ［実施例８で探索された線形判別式の一覧（その２）］

以下に、前述した実施例８で探索された線形判別式を列挙する。なお、式の前には、その式について得られた、「バリデーション有りでの膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣの値」、「バリデーション無しでの膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と健常群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と他癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値」、および「膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣの値の平均値」を、さらに列挙する。

[0376] 0.896,0.924,0.943,0.907,0.901,0.893,0.906,(10.5615)+(0.0037)Gln+(-0.1

087)His+(-0.0445)Arg+(0.0653)Tyr+(0.0380)Ile+(-0.1489)Trp;0.895,0.921,0.943,0.902,0.897,0.885,0.901,(11.7120)+(-0.0796)His+(-0.0490)Arg+(0.0724)Tyr+(0.0897)Ile+(-0.0380)Leu+(-0.1510)Trp;0.882,0.917,0.943,0.902,0.912,0.873,0.901,(10.4832)+(0.0072)Gln+(-0.1152)His+(-0.0273)Cit+(-0.0334)Arg+(0.0505)Ile+(-0.1141)Trp;0.883,0.913,0.942,0.900,0.911,0.872,0.899,(10.5912)+(0.0066)Gln+(-0.1228)His+(-0.0359)Arg+(0.0473)Ile+(-0.1069)Trp;0.878,0.910,0.942,0.899,0.911,0.874,0.898,(10.3696)+(0.0067)Gln+(-0.1228)His+(-0.0366)Arg+(0.0469)Ile+(0.0053)Phe+(-0.1082)Trp;0.876,0.911,0.941,0.893,0.901,0.863,0.892,(11.1623)+(0.0049)Gln+(-0.1018)His+(-0.0405)Arg+(0.0916)Ile+(-0.0320)Leu+(-0.1048)Trp;0.895,0.921,0.940,0.908,0.898,0.902,0.907,(11.7459)+(-0.0948)His+(-0.0213)Cit+(-0.0381)Arg+(0.0714)Tyr+(0.0400)Ile+(-0.1586)Trp;0.882,0.916,0.939,0.900,0.909,0.870,0.899,(10.2523)+(0.0079)Gln+(-0.1137)His+(-0.0243)Arg+(-0.0173)Lys+(0.0587)Ile+(-0.0985)Trp;0.876,0.913,0.938,0.900,0.911,0.871,0.898,(10.5605)+(0.0067)Gln+(-0.1234)His+(-0.0349)Arg+(-0.0018)Pro+(0.0491)Ile+(-0.1059)Trp;0.900,0.927,0.937,0.909,0.898,0.898,0.908,(12.6498)+(-0.1023)His+(-0.0383)Arg+(0.0775)Tyr+(0.0388)Ile+(-0.0307)Phe+(-0.1495)Trp;0.884,0.914,0.936,0.900,0.914,0.868,0.899,(9.9586)+(0.0086)Gln+(-0.1245)His+(-0.0316)Arg+(-0.0252)Orn+(0.0559)Ile+(-0.1032)Trp;0.914,0.939,0.935,0.920,0.927,0.890,0.919,(11.6880)+(-0.0161)Gly+(0.0087)Gln+(-0.1109)His+(-0.0326)Arg+(0.0504)Ile+(-0.1027)Trp;0.902,0.923,0.934,0.908,0.898,0.901,0.907,(11.6884)+(-0.1016)His+(-0.0405)Arg+(0.0710)Tyr+(0.0375)Ile+(-0.1527)Trp;0.926,0.945,0.933,0.925,0.913,0.912,0.923,(13.3589)+(-0.0158)Gly+(-0.0857)His+(-0.0354)Arg+(0.0757)Tyr+(0.0401)Ile+(-0.1518)Trp;0.885,0.917,0.933,0.902,0.908,0.878,0.901,(10.9845)+(-0.0122)Ser+(0.0075)Gln+(-0.1190)His+(-0.0335)Arg+(0.0494)Ile+(-0.1086)Trp;0.913,0.936,0.931,0.915,0.923,0.881,0.913,(13.5929)+(0.0203)Ser+(-0.0187)Gly+(-0.1029)His+(-0.0261)Arg+(0.0483

)Ile+(-0.0997)Trp;0.893,0.923,0.931,0.905,0.891,0.898,0.904,(11.6722)+(-0.1017)His+(-0.0382)Arg+(-0.0052)Pro+(0.0766)Tyr+(0.0418)Ile+(-0.1536)Trp;0.886,0.920,0.931,0.897,0.900,0.867,0.896,(9.8279)+(0.0079)Gln+(-0.0960)His+(-0.0483)Cit+(-0.0254)Lys+(0.0659)Ile+(-0.1057)Trp;0.878,0.907,0.931,0.891,0.900,0.860,0.889,(12.7518)+(-0.0908)His+(-0.0349)Arg+(0.0984)Ile+(-0.0366)Leu+(-0.1047)Trp;0.874,0.908,0.931,0.890,0.900,0.857,0.888,(12.3164)+(-0.0891)His+(-0.0367)Arg+(0.0998)Ile+(-0.0383)Leu+(0.0127)Phe+(-0.1077)Trp;0.874,0.910,0.931,0.892,0.901,0.860,0.891,(12.7898)+(-0.0872)His+(-0.0130)Cit+(-0.0332)Arg+(0.0989)Ile+(-0.0358)Leu+(-0.1082)Trp;0.907,0.932,0.930,0.913,0.923,0.878,0.911,(14.5433)+(-0.0162)Gly+(-0.0706)His+(-0.0305)Arg+(0.1130)Ile+(-0.0447)Leu+(-0.1001)Trp;0.892,0.924,0.929,0.895,0.894,0.861,0.893,(11.7007)+(-0.0696)His+(-0.0523)Arg+(0.0755)Tyr+(-0.0280)Val+(0.1034)Ile+(-0.1467)Trp;0.865,0.907,0.929,0.891,0.900,0.862,0.889,(12.7663)+(-0.0909)His+(-0.0341)Arg+(-0.0012)Pro+(0.0997)Ile+(-0.0367)Leu+(-0.1041)Trp;0.876,0.911,0.928,0.892,0.901,0.860,0.891,(12.8033)+(-0.0866)His+(-0.0266)Arg+(-0.0096)Lys+(0.0996)Ile+(-0.0328)Leu+(-0.1003)Trp;0.872,0.910,0.928,0.893,0.901,0.865,0.892,(12.7713)+(-0.1058)His+(-0.0190)Cit+(-0.0245)Arg+(-0.0005)Pro+(0.0507)Ile+(-0.1120)Trp;0.885,0.910,0.928,0.894,0.903,0.865,0.893,(12.7657)+(-0.1057)His+(-0.0191)Cit+(-0.0248)Arg+(0.0503)Ile+(-0.1123)Trp;0.877,0.910,0.928,0.895,0.904,0.866,0.893,(12.9164)+(-0.1059)His+(-0.0192)Cit+(-0.0242)Arg+(0.0506)Ile+(-0.0044)Phe+(-0.1113)Trp;0.900,0.927,0.927,0.902,0.886,0.887,0.900,(11.5713)+(-0.0828)His+(-0.0250)Arg+(0.0890)Tyr+(-0.0244)Lys+(0.0511)Ile+(-0.1525)Trp;0.902,0.930,0.927,0.912,0.911,0.889,0.910,(15.7882)+(-0.1398)Asn+(-0.0689)His+(-0.0330)Cit+(-0.0112)Lys+(0.0428)Ile+(-0.0927)Trp;0.879,0.912,0.927,0.888,0.890,0.855,0.886,(9.5328)+(0.0064)Gln+(-0.1093)His+(-0.0254)Lys+(0.0581)Ile+(0.0109)Phe+(-0.0950)Trp;0.878,0.911,0.

927,0.895,0.901,0.868,0.893,(12.8747)+(-0.0935)His+(-0.0262)Cit+(-0.0122)Arg+(-0.0150)Lys+(0.0611)Ile+(-0.1069)Trp;0.914,0.939,0.926,0.914,0.916,0.882,0.912,(11.1729)+(-0.0158)Gly+(0.0080)Gln+(-0.1004)His+(-0.0203)Lys+(0.0589)Ile+(-0.0909)Trp;0.905,0.936,0.926,0.918,0.914,0.900,0.917,(12.6371)+(-0.1861)Asn+(0.0103)Gln+(-0.0831)His+(-0.0526)Cit+(0.0262)Ile+(-0.0947)Trp;0.899,0.928,0.926,0.911,0.914,0.889,0.910,(15.4137)+(0.0066)Ser+(-0.1637)Asn+(-0.0771)His+(-0.0330)Cit+(0.0287)Ile+(-0.0930)Trp;0.897,0.924,0.926,0.909,0.894,0.906,0.908,(12.1993)+(-0.0089)Ser+(-0.0975)His+(-0.0379)Arg+(0.0712)Tyr+(0.0391)Ile+(-0.1542)Trp;0.876,0.914,0.926,0.890,0.899,0.851,0.888,(11.0445)+(0.0054)Gln+(-0.0933)His+(-0.0438)Arg+(-0.0246)Val+(0.1058)Ile+(-0.0992)Trp;0.872,0.908,0.926,0.889,0.892,0.862,0.887,(12.4787)+(-0.0894)His+(-0.0345)Cit+(0.0014)Pro+(-0.0200)Lys+(0.0613)Ile+(-0.1063)Trp;0.870,0.907,0.926,0.892,0.904,0.859,0.890,(12.8262)+(-0.1120)His+(-0.0263)Arg+(-0.0006)Pro+(0.0488)Ile+(-0.0032)Phe+(-0.1062)Trp;0.876,0.907,0.925,0.889,0.892,0.861,0.887,(12.3896)+(-0.0900)His+(-0.0337)Cit+(-0.0195)Lys+(0.0621)Ile+(0.0031)Phe+(-0.1064)Trp;0.890,0.922,0.925,0.913,0.905,0.909,0.912,(10.9127)+(0.0037)Gln+(-0.0988)His+(-0.0410)Arg+(0.0730)Tyr+(0.0021)Leu+(-0.1470)Trp;0.888,0.907,0.925,0.893,0.905,0.862,0.892,(12.7085)+(-0.1117)His+(-0.0270)Arg+(0.0480)Ile+(-0.1073)Trp;0.885,0.915,0.925,0.901,0.908,0.876,0.900,(10.3213)+(0.0091)Gln+(-0.1112)His+(-0.0241)Arg+(-0.1761)Met+(0.0520)Ile+(-0.0913)Trp;0.881,0.910,0.925,0.892,0.899,0.862,0.890,(12.7530)+(-0.1081)His+(-0.0083)Cit+(-0.0224)Arg+(-0.0131)Orn+(0.0535)Ile+(-0.1076)Trp;0.875,0.907,0.925,0.892,0.905,0.861,0.891,(12.7166)+(-0.1118)His+(-0.0266)Arg+(-0.0007)Pro+(0.0487)Ile+(-0.1069)Trp;0.874,0.909,0.925,0.891,0.900,0.861,0.890,(12.7260)+(-0.1105)His+(-0.0231)Arg+(0.0004)Pro+(-0.0152)Orn+(0.0529)Ile+(-0.1053)Trp;0.882,0.913,0.925,0.894,0.900,0.863,0.892,(13.3747)+(-0.0108)

Ser+(-0.0849)His+(-0.0320)Arg+(0.1028)Ile+(-0.0384)Leu+(-0.1061)Trp;0.881,0.908,0.925,0.889,0.892,0.862,0.887,(12.5014)+(-0.0904)His+(-0.0336)Cit+(-0.0192)Lys+(0.0622)Ile+(-0.1058)Trp;0.881,0.907,0.925,0.892,0.905,0.861,0.891,(12.8361)+(-0.1119)His+(-0.0266)Arg+(0.0483)Ile+(-0.0037)Phe+(-0.1064)Trp;0.901,0.928,0.924,0.907,0.909,0.878,0.905,(16.0042)+(-0.1870)Asn+(-0.0435)His+(-0.0319)Cit+(0.0932)Ile+(-0.0495)Leu+(-0.0864)Trp;0.895,0.926,0.924,0.912,0.920,0.888,0.911,(12.6275)+(-0.1644)Asn+(0.0099)Gln+(-0.1006)His+(-0.0174)Arg+(0.0256)Ile+(-0.0849)Trp;0.893,0.923,0.924,0.915,0.906,0.914,0.914,(10.9400)+(0.0039)Gln+(-0.0916)His+(-0.0155)Cit+(-0.0395)Arg+(0.0741)Tyr+(-0.1507)Trp;0.884,0.909,0.924,0.891,0.899,0.861,0.890,(12.7311)+(-0.1106)His+(-0.0229)Arg+(-0.0149)Orn+(0.0532)Ile+(-0.1051)Trp;0.880,0.910,0.924,0.888,0.893,0.855,0.886,(10.0166)+(0.0061)Gln+(-0.1101)His+(-0.0242)Lys+(0.0583)Ile+(-0.0930)Trp;0.877,0.909,0.924,0.891,0.899,0.861,0.890,(12.7606)+(-0.1107)His+(-0.0228)Arg+(-0.0149)Orn+(0.0533)Ile+(-0.0009)Phe+(-0.1049)Trp;0.914,0.940,0.924,0.917,0.921,0.884,0.915,(14.4226)+(-0.0151)Gly+(-0.0910)His+(-0.0140)Arg+(-0.0094)Lys+(0.0574)Ile+(-0.0989)Trp;0.878,0.912,0.924,0.892,0.901,0.857,0.890,(12.7774)+(-0.0892)His+(-0.0305)Arg+(-0.0163)Orn+(0.1051)Ile+(-0.0373)Leu+(-0.1023)Trp;0.873,0.910,0.924,0.892,0.902,0.861,0.891,(12.7745)+(-0.1020)His+(-0.0168)Arg+(0.0014)Pro+(-0.0143)Lys+(0.0562)Ile+(-0.1011)Trp;0.875,0.904,0.923,0.881,0.887,0.847,0.880,(11.3813)+(-0.0947)His+(-0.0339)Cit+(0.0750)Ile+(-0.0231)Leu+(-0.1108)Trp;0.897,0.923,0.923,0.913,0.906,0.908,0.912,(10.9813)+(0.0035)Gln+(-0.0964)His+(-0.0411)Arg+(0.0739)Tyr+(-0.1469)Trp;0.883,0.910,0.923,0.892,0.901,0.861,0.891,(12.7883)+(-0.1027)His+(-0.0164)Arg+(-0.0137)Lys+(0.0571)Ile+(-0.1007)Trp;0.909,0.934,0.923,0.916,0.920,0.889,0.914,(14.4257)+(-0.0153)Gly+(-0.0935)His+(-0.0109)Cit+(-0.0199)Arg+(0.0524)Ile+(-0.1063)Trp;0.873,0.908,0.923,0.886,0

.890,0.855,0.884,(12.2612)+(-0.0795)His+(-0.0331)Cit+(-0.0188)Lys+(0.0904)Ile+(-0.0219)Leu+(-0.1036)Trp;0.912,0.934,0.923,0.918,0.898,0.921,0.918,(11.9502)+(-0.0675)His+(-0.0236)Arg+(0.1184)Tyr+(-0.3005)Met+(0.0390)Ile+(-0.1568)Trp;0.910,0.936,0.923,0.905,0.887,0.887,0.903,(11.4866)+(-0.0966)His+(-0.0344)Arg+(0.0886)Tyr+(-0.0339)Orn+(0.0467)Ile+(-0.1591)Trp;0.897,0.924,0.923,0.896,0.876,0.884,0.895,(11.1211)+(-0.0665)His+(-0.0458)Cit+(0.0869)Tyr+(-0.0325)Lys+(0.0581)Ile+(-0.1576)Trp;0.893,0.926,0.923,0.913,0.908,0.903,0.912,(15.1663)+(-0.1644)Asn+(-0.0654)Cit+(0.0044)Pro+(-0.0184)Lys+(0.0337)Ile+(-0.1159)Trp;0.878,0.910,0.923,0.892,0.902,0.860,0.891,(12.5796)+(-0.1020)His+(-0.0167)Arg+(-0.0141)Lys+(0.0570)Ile+(0.0061)Phe+(-0.1020)Trp;0.872,0.910,0.923,0.884,0.884,0.850,0.881,(10.2978)+(0.0049)Gln+(-0.1007)His+(-0.0230)Lys+(0.0778)Ile+(-0.0152)Leu+(-0.0923)Trp;0.911,0.935,0.922,0.911,0.911,0.881,0.909,(14.1119)+(-0.0150)Gly+(-0.0826)His+(-0.0229)Cit+(-0.0142)Lys+(0.0608)Ile+(-0.1017)Trp;0.881,0.913,0.922,0.895,0.900,0.868,0.894,(13.1702)+(-0.0067)Ser+(-0.1002)His+(-0.0150)Arg+(-0.0128)Lys+(0.0577)Ile+(-0.1020)Trp;0.879,0.912,0.922,0.895,0.907,0.861,0.893,(13.1744)+(-0.0786)His+(-0.0232)Arg+(-0.1345)Met+(0.1020)Ile+(-0.0365)Leu+(-0.0929)Trp;0.869,0.909,0.922,0.888,0.893,0.856,0.886,(10.0135)+(0.0062)Gln+(-0.1104)His+(-0.0005)Pro+(-0.0240)Lys+(0.0587)Ile+(-0.0929)Trp;0.930,0.950,0.922,0.918,0.902,0.893,0.915,(12.5111)+(-0.0154)Gly+(-0.0709)His+(0.0841)Tyr+(-0.0271)Lys+(0.0516)Ile+(-0.1420)Trp;0.912,0.936,0.922,0.907,0.912,0.867,0.905,(13.0273)+(0.0198)Ser+(-0.0184)Gly+(-0.0948)His+(-0.0171)Lys+(0.0557)Ile+(-0.0899)Trp;0.897,0.925,0.922,0.906,0.913,0.877,0.905,(15.2500)+(0.0073)Ser+(-0.1563)Asn+(-0.0885)His+(-0.0074)Arg+(0.0264)Ile+(-0.0855)Trp;0.886,0.918,0.922,0.895,0.905,0.858,0.894,(12.4065)+(-0.0962)His+(-0.0161)Arg+(-0.1564)Met+(0.0507)Ile+(0.0231)Phe+(-0.0992)Trp;0.878,0.910,0.922,0.891,0.900,0.8

59,0.890,(12.7961)+(-0.1028)His+(-0.0145)Arg+(-0.0107)Orn+(-0.0122)Ly
s+(0.0599)Ile+(-0.0998)Trp;0.928,0.948,0.922,0.914,0.914,0.874,0.912,
(15.5554)+(0.0353)Ser+(-0.2340)Asn+(-0.0199)Gly+(0.0981)Ile+(-0.0695)
Leu+(-0.0719)Trp;0.875,0.909,0.922,0.886,0.872,0.873,0.885,(10.2052)+
(0.0008)Gln+(-0.1006)His+(-0.0431)Cit+(0.0477)Tyr+(0.0357)Ile+(-0.144
9)Trp;0.917,0.936,0.921,0.915,0.919,0.886,0.914,(14.4010)+(-0.0154)Gl
y+(-0.0969)His+(-0.0212)Arg+(0.0512)Ile+(-0.1034)Trp;0.883,0.910,0.92
1,0.895,0.902,0.869,0.894,(13
.2008)+(-0.0085)Ser+(-0.1078)His+(-0.0244)Arg+(0.0495)Ile+(-0.1085)Tr
p;0.869,0.907,0.921,0.883,0.888,0.849,0.881,(10.6236)+(0.0021)Gln+(-0
.0990)His+(-0.0380)Cit+(0.0707)Ile+(-0.0202)Leu+(-0.1118)Trp;0.897,0.
929,0.921,0.912,0.914,0.890,0.911,(15.6380)+(-0.1496)Asn+(-0.0762)His
+(-0.0320)Cit+(-0.0023)Arg+(0.0323)Ile+(-0.0959)Trp;0.895,0.925,0.921
,0.903,0.907,0.872,0.901,(15.2549)+(0.0091)Ser+(-0.1546)Asn+(-0.0811)
His+(-0.0123)Lys+(0.0350)Ile+(-0.0797)Trp;0.912,0.936,0.921,0.909,0.9
12,0.873,0.907,(13.6749)+(-0.0160)Gly+(-0.0733)His+(-0.0134)Lys+(0.09
91)Ile+(-0.0322)Leu+(-0.0922)Trp;0.911,0.935,0.921,0.915,0.918,0.886,
0.913,(14.3947)+(-0.0152)Gly+(-0.0965)His+(-0.0191)Arg+(-0.0077)Orn+(
0.0538)Ile+(-0.1023)Trp;0.880,0.912,0.921,0.885,0.872,0.865,0.883,(10
.3226)+(-0.0890)His+(-0.0409)Cit+(0.0473)Tyr+(0.0628)Ile+(-0.0206)Leu
+(-0.1422)Trp;0.896,0.926,0.921,0.904,0.906,0.874,0.902,(15.5396)+(-0
.1387)Asn+(-0.0806)His+(-0.0107)Orn+(-0.0093)Lys+(0.0407)Ile+(-0.0832
)Trp;0.896,0.924,0.921,0.914,0.906,0.909,0.913,(11.8572)+(0.0028)Gln+
(-0.0953)His+(-0.0387)Arg+(0.0796)Tyr+(-0.0208)Phe+(-0.1453)Trp;0.875
,0.910,0.920,0.894,0.903,0.866,0.893,(13.2183)+(-0.0086)Ser+(-0.1080)
His+(-0.0238)Arg+(-0.0009)Pro+(0.0505)Ile+(-0.1080)Trp;0.874,0.906,0.
920,0.886,0.892,0.857,0.885,(10.2651)+(0.0036)Gln+(-0.1114)His+(-0.04
13)Cit+(0.0439)Ile+(-0.1143)Trp;0.873,0.907,0.920,0.879,0.880,0.844,0

.877,(11.6730)+(-0.0896)His+(-0.0196)Lys+(0.0863)Ile+(-0.0227)Leu+(0.0078)Phe+(-0.0957)Trp;0.928,0.947,0.920,0.930,0.918,0.919,0.928,(12.7898)+(0.0225)Ser+(-0.0193)Gly+(-0.0809)His+(-0.0379)Arg+(0.0840)Tyr+(-0.1457)Trp;0.909,0.935,0.920,0.920,0.907,0.916,0.919,(14.4930)+(-0.1522)Asn+(-0.0750)His+(-0.0203)Arg+(0.0765)Tyr+(0.0169)Ile+(-0.1361)Trp;0.908,0.936,0.920,0.926,0.917,0.922,0.925,(12.8808)+(-0.1740)Asn+(0.0072)Gln+(-0.0802)His+(-0.0237)Arg+(0.0696)Tyr+(-0.1255)Trp;0.905,0.929,0.920,0.912,0.913,0.890,0.911,(15.6038)+(-0.1524)Asn+(-0.0758)His+(-0.0334)Cit+(0.0315)Ile+(-0.0956)Trp;0.910,0.935,0.920,0.916,0.921,0.888,0.915,(14.7806)+(-0.0155)Gly+(-0.0974)His+(-0.0200)Arg+(0.0520)Ile+(-0.0109)Phe+(-0.1007)Trp;0.879,0.912,0.920,0.896,0.903,0.868,0.894,(13.3032)+(-0.0092)Ser+(-0.1008)His+(-0.0215)Cit+(-0.0217)Arg+(0.0522)Ile+(-0.1142)Trp;0.877,0.909,0.920,0.888,0.890,0.860,0.886,(12.4932)+(-0.0923)His+(-0.0283)Cit+(-0.0057)Orn+(-0.0181)Lys+(0.0628)Ile+(-0.1041)Trp

[0377] ［実施例２で探索されたロジスティック回帰式の一覧（ＲＯＣ＿ＡＵＣ値：０．５００以上）］

以下に、前述した実施例２で探索されたロジスティック回帰式を列挙する。なお、式の前には、その式について得られた、「バリデーション有りでの膵臓癌群と健常群のＲＯＣ＿ＡＵＣの値」、「バリデーション無しでの膵臓癌群と健常群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と他癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値」、「膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣの値」、および「膵臓癌群と肺癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と大腸癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と前立腺癌群のＲＯＣ＿ＡＵＣの値と、膵臓癌群と乳癌群のＲＯＣ＿ＡＵＣの値の平均値」を、さらに列挙する。

[0378] 0.826,0.840,0.800,0.804,0.811,0.753,0.801,0.792,(3.2646)+(0.0697)Phe+

(-0.1735)Trp;0.817,0.828,0.774,0.782,0.778,0.801,0.727,0.772,(3.1922)+(0.0271)Ser+(-0.1525)Trp;0.812,0.822,0.774,0.762,0.777,0.766,0.804,0.777,(4.2601)+(0.0495)Ile+(-0.1715)Trp;0.812,0.825,0.809,0.812,0.810,0.827,0.789,0.809,(8.8631)+(-0.0763)His+(-0.0949)Trp;0.804,0.815,0.736,0.717,0.737,0.829,0.719,0.750,(4.1731)+(0.0357)Ser+(-0.1324)His;0.802,0.817,0.816,0.822,0.831,0.822,0.765,0.810,(7.5229)+(-0.0626)Cit+(-0.1412)Trp;0.802,0.815,0.793,0.803,0.802,0.783,0.754,0.786,(5.1431)+(0.0173)Orn+(-0.1504)Trp;0.801,0.814,0.795,0.806,0.800,0.781,0.766,0.788,(5.4341)+(0.0049)Pro+(-0.1498)Trp;0.801,0.813,0.781,0.775,0.769,0.829,0.787,0.790,(4.1211)+(0.0092)Gln+(-0.1498)His;0.799,0.812,0.792,0.804,0.802,0.788,0.745,0.785,(5.3459)+(0.0083)Thr+(-0.1543)Trp;0.798,0.812,0.808,0.824,0.807,0.794,0.775,0.800,(4.4293)+(0.0032)Gln+(-0.1532)Trp;0.797,0.811,0.747,0.721,0.745,0.783,0.795,0.761,(4.6715)+(-0.1432)His+(0.0732)Phe;0.796,0.806,0.741,0.704,0.738,0.798,0.804,0.761,(5.5422)+(-0.1341)His+(0.0453)Ile;0.795,0.807,0.819,0.832,0.822,0.807,0.783,0.811,(7.2003)+(-0.0494)Asn+(-0.1313)Trp;0.794,0.808,0.803,0.819,0.806,0.792,0.765,0.796,(5.8643)+(-0.0006)Val+(-0.1435)Trp;0.794,0.808,0.794,0.802,0.802,0.777,0.770,0.788,(5.3577)+(0.0086)Leu+(-0.1545)Trp;0.793,0.805,0.816,0.832,0.812,0.816,0.784,0.811,(6.3477)+(-0.0032)Ala+(-0.1356)Trp;0.793,0.807,0.802,0.819,0.804,0.789,0.762,0.793,(5.9803)+(-0.0056)Tyr+(-0.1416)Trp;0.792,0.807,0.802,0.816,0.806,0.788,0.767,0.794,(5.7122)+(0.0009)Lys+(-0.1463)Trp;0.791,0.806,0.817,0.834,0.820,0.811,0.769,0.809,(6.9335)+(-0.0867)Met+(-0.1276)Trp;0.791,0.807,0.805,0.818,0.809,0.790,0.773,0.798,(5.9630)+(-0.0009)Gly+(-0.1445)Trp;0.787,0.801,0.748,0.720,0.759,0.808,0.756,0.761,(6.1253)+(-0.1299)His+(0.0330)Orn;0.784,0.796,0.745,0.727,0.750,0.804,0.741,0.756,(6.4709)+(-0.1329)His+(0.0149)Thr;0.784,0.802,0.805,0.822,0.812,0.795,0.752,0.795,(6.3448)+(-0.0090)Arg+(-0.1399)Trp;0.778,0.788,0.751,0.725,

0.755,0.801,0.779,0.765,(6.5324)+(-0.1304)His+(0.0128)Leu;0.775,0.786,0.763,0.748,0.762,0.810,0.770,0.772,(6.9613)+(-0.1208)His+(0.0015)Val;0.775,0.788,0.756,0.747,0.754,0.813,0.742,0.764,(6.6776)+(0.0028)Gly+(-0.1206)His;0.775,0.786,0.775,0.766,0.765,0.822,0.784,0.784,(7.3273)+(-0.1124)His+(-0.0021)Ala;0.773,0.785,0.752,0.734,0.753,0.797,0.764,0.762,(6.6331)+(-0.1215)His+(0.0052)Pro;0.772,0.785,0.769,0.758,0.766,0.811,0.776,0.778,(7.3401)+(-0.0143)Asn+(-0.1136)His;0.772,0.783,0.758,0.744,0.757,0.803,0.766,0.768,(6.7145)+(-0.1239)His+(0.0042)Lys;0.770,0.785,0.766,0.757,0.761,0.809,0.768,0.774,(7.2279)+(-0.1150)His+(-0.0062)Tyr;0.767,0.785,0.775,0.768,0.771,0.817,0.773,0.782,(7.4695)+(-0.1078)His+(-0.0493)Met;0.766,0.784,0.766,0.753,0.764,0.812,0.768,0.774,(7.2408)+(-0.1161)His+(-0.0036)Arg;0.761,0.778,0.764,0.750,0.768,0.810,0.758,0.771,(7.3735)+(-0.1115)His+(-0.0257)Cit;0.760,0.771,0.696,0.684,0.626,0.781,0.814,0.726,(0.9619)+(-0.0559)Val+(0.1493)Ile;0.755,0.773,0.737,0.764,0.736,0.813,0.613,0.731,(0.2571)+(0.0364)Ser+(-0.2519)Met;0.738,0.754,0.739,0.730,0.737,0.757,0.755,0.745,(1.8923)+(-0.2844)Met+(0.0530)Ile;0.737,0.752,0.758,0.772,0.765,0.712,0.734,0.746,(0.4707)+(-0.3046)Met+(0.0871)Phe;0.729,0.744,0.681,0.679,0.631,0.746,0.746,0.701,(-0.1029)+(0.1443)Ile+(-0.0904)Leu;0.724,0.743,0.707,0.720,0.698,0.771,0.648,0.709,(0.7877)+(0.0397)Ser+(-0.1603)Asn;0.712,0.731,0.738,0.769,0.748,0.764,0.620,0.725,(2.6702)+(0.0178)Thr+(-0.2686)Met;0.707,0.725,0.742,0.761,0.740,0.745,0.693,0.735,(2.9233)+(0.0080)Pro+(-0.2391)Met;0.704,0.721,0.742,0.762,0.744,0.767,0.671,0.736,(2.4989)+(-0.2277)Met+(0.0223)Orn;0.704,0.723,0.732,0.729,0.642,0.819,0.864,0.764,(0.0800)+(-0.0136)Ala+(0.0441)Ile;0.703,0.722,0.778,0.814,0.761,0.782,0.713,0.768,(1.4382)+(0.0045)Gln+(-0.2387)Met;0.703,0.719,0.775,0.798,0.775,0.768,0.721,0.765,(3.9824)+(-0.0433)Asn+(-0.1605)Met;0.703,0.723,0.789,0.817,0.767,0.811,0.743,0.785,(3.5534)+(-0.0

040)Ala+(-0.1658)Met;0.699,0.720,0.765,0.781,0.785,0.773,0.676,0.754,(4.3007)+(-0.0614)Cit+(-0.1733)Met;0.695,0.716,0.776,0.813,0.764,0.787,0.697,0.765,(3.8103)+(-0.0065)Val+(-0.1747)Met;0.695,0.713,0.760,0.788,0.758,0.764,0.685,0.749,(3.0856)+(0.0006)Gly+(-0.2055)Met;0.694,0.712,0.766,0.794,0.763,0.770,0.694,0.755,(3.3474)+(-0.1943)Met+(-0.0022)Lys;0.693,0.712,0.759,0.784,0.758,0.758,0.697,0.749,(3.0295)+(-0.2128)Met+(0.0031)Leu;0.692,0.714,0.766,0.796,0.767,0.768,0.684,0.754,(3.5146)+(-0.0079)Arg+(-0.1897)Met;0.688,0.708,0.774,0.787,0.761,0.821,0.736,0.776,(3.4870)+(-0.0086)Ala+(-0.0780)Cit;0.688,0.710,0.759,0.791,0.753,0.756,0.687,0.747,(3.3052)+(-0.0074)Tyr+(-0.1906)Met;0.687,0.707,0.800,0.821,0.762,0.827,0.801,0.803,(4.0397)+(-0.0851)Asn+(-0.0064)Ala;0.685,0.709,0.757,0.766,0.770,0.754,0.707,0.749,(4.3414)+(-0.0921)Asn+(-0.0679)Cit;0.679,0.702,0.751,0.796,0.724,0.739,0.696,0.739,(4.2548)+(-0.0854)Asn+(-0.0363)Tyr;0.679,0.698,0.787,0.822,0.763,0.795,0.737,0.779,(4.9678)+(-0.0972)Asn+(-0.0120)Val;0.675,0.701,0.715,0.755,0.715,0.732,0.596,0.699,(3.3013)+(-0.0711)Cit+(-0.0448)Tyr;0.672,0.699,0.623,0.683,0.584,0.706,0.486,0.615,(-0.4769)+(0.0218)Ser+(-0.0572)Tyr;0.669,0.694,0.704,0.733,0.618,0.847,0.702,0.725,(-0.8615)+(0.0218)Ser+(-0.0099)Ala;0.668,0.689,0.736,0.756,0.660,0.815,0.789,0.755,(1.0885)+(-0.0125)Ala+(0.0096)Pro;0.667,0.689,0.677,0.647,0.668,0.732,0.736,0.696,(1.0698)+(-0.0265)Lys+(0.0364)Ile;0.667,0.687,0.627,0.668,0.570,0.645,0.625,0.627,(0.7224)+(-0.0702)Tyr+(0.0336)Ile;0.666,0.689,0.720,0.713,0.712,0.706,0.762,0.723,(2.1733)+(-0.1195)Asn+(0.0213)Ile;0.665,0.690,0.754,0.775,0.681,0.814,0.806,0.769,(0.0534)+(-0.0112)Ala+(0.0327)Phe;0.662,0.686,0.728,0.735,0.729,0.725,0.713,0.725,(2.5997)+(-0.1214)Asn+(0.0169)Orn;0.662,0.685,0.734,0.740,0.734,0.693,0.745,0.728,(1.9869)+(-0.1259)Asn+(0.0297)Phe;0.661,0.691,0.639,0.647,0.638,0.762,0.535,0.645,(-0.6030)+(0.0285)Ser+(-0.0227)Lys;0.660,0.680

,0.644,0.717,0.589,0.609,0.589,0.626,(0.1635)+(-0.0781)Tyr+(0.0525)Ph
e;0.660,0.685,0.758,0.816,0.687,0.821,0.708,0.758,(2.6325)+(-0.0068)A
la+(-0.0337)Tyr;0.659,0.684,0.788,0.823,0.742,0.845,0.749,0.790,(2.48
15)+(-0.0080)Ala+(-0.0175)Arg;0.659,0.684,0.768,0.792,0.751,0.740,0.7
60,0.761,(1.6188)+(-0.1401)Asn+(0.0047)Gln;0.656,0.686,0.789,0.821,0.
735,0.858,0.766,0.795,(2.7346)+(-0.0074)Ala+(-0.0108)Lys;0.655,0.686,
0.729,0.802,0.681,0.760,0.611,0.714,(2.8329)+(-0.0389)Tyr+(-0.0100)Va
l;0.655,0.678,0.765,0.796,0.754,0.753,0.718,0.755,(3.8161)+(-0.1017)A
sn+(-0.0101)Leu;0.654,0.681,0.744,0.765,0.673,0.835,0.770,0.761,(0.82
98)+(-0.0104)Ala+(0.0158)Orn;0.653,0.676,0.735,0.758,0.729,0.722,0.69
5,0.726,(2.8947)+(-0.1145)Asn+(0.0017)Gly;0.653,0.684,0.629,0.648,0.6
53,0.741,0.450,0.623,(-1.5623)+(0.0264)Ser+(-0.0341)Arg;0.653,0.681,0
.759,0.776,0.753,0.757,0.730,0.754,(3.7433)+(-0.0898)Asn+(-0.0085)Lys
;0.652,0.678,0.787,0.837,0.715,0.867,0.743,0.791,(2.4040)+(-0.0069)Al
a+(-0.0089)Val;0.651,0.674,0.610,0.597,0.649,0.696,0.505,0.612,(-1.30
60)+(0.0227)Ser+(-0.0930)Cit;0.648,0.673,0.736,0.752,0.730,0.709,0.72
4,0.729,(2.9528)+(-0.1135)Asn+(0.0018)Pro;0.646,0.676,0.754,0.777,0.7
56,0.739,0.702,0.743,(3.4803)+(-0.0950)Asn+(-0.0123)Arg;0.646,0.674,0
.733,0.748,0.731,0.712,0.709,0.725,(2.9573)+(-0.1231)Asn+(0.0056)Thr;
0.645,0.670,0.771,0.805,0.692,0.855,0.783,0.784,(1.1266)+(0.0006)Gln+
(-0.0096)Ala;0.645,0.674,0.717,0.771,0.689,0.750,0.606,0.704,(2.9686)
+(-0.0405)Tyr+(-0.0113)Lys;0.644,0.670,0.636,0.601,0.699,0.702,0.553,
0.639,(0.0045)+(-0.1113)Cit+(0.0318)Orn;0.643,0.676,0.709,0.774,0.691
,0.729,0.564,0.689,(2.8079)+(-0.0184)Arg+(-0.0455)Tyr;0.642,0.671,0.7
27,0.731,0.754,0.773,0.625,0.721,(3.2166)+(-0.0736)Cit+(-0.0142)Lys;0
.642,0.668,0.777,0.806,0.706,0.851,0.797,0.790,(1.6342)+(-0.0013)Gly+
(-0.0093)Ala;0.642,0.671,0.776,0.815,0.703,0.855,0.765,0.785,(1.6244)
+(-0.0088)Ala+(-0.0039)Leu;0.641,0.665,0.641,0.708,0.600,0.670,0.525,

0.626,(1.2368)+(-0.0616)Tyr+(0.0176)Orn;0.641,0.669,0.777,0.810,0.701,0.854,0.794,0.790,(1.5960)+(-0.0029)Thr+(-0.0090)Ala;0.640,0.661,0.627,0.594,0.664,0.663,0.611,0.633,(-0.0873)+(-0.0926)Cit+(0.0212)Ile;0.639,0.663,0.700,0.735,0.637,0.754,0.697,0.706,(1.2645)+(-0.0316)Val+(0.0321)Leu;0.637,0.660,0.720,0.746,0.727,0.755,0.612,0.710,(2.7084)+(-0.0684)Cit+(-0.0110)Val;0.637,0.663,0.642,0.714,0.592,0.658,0.546,0.628,(1.5667)+(0.0048)Pro+(-0.0616)Tyr;0.635,0.659,0.704,0.721,0.729,0.737,0.581,0.692,(1.9881)+(-0.0784)Cit+(-0.0111)Leu;0.634,0.668,0.696,0.775,0.656,0.712,0.562,0.676,(2.1802)+(-0.0486)Tyr+(-0.0070)Leu;0.632,0.661,0.690,0.696,0.729,0.716,0.574,0.679,(1.7181)+(-0.0714)Cit+(-0.0136)Arg;0.631,0.658,0.670,0.753,0.618,0.680,0.554,0.651,(1.4409)+(0.0007)Gln+(-0.0560)Tyr;0.631,0.656,0.726,0.753,0.730,0.751,0.626,0.715,(2.3484)+(-0.0162)Arg+(-0.0139)Lys;0.630,0.659,0.690,0.692,0.715,0.705,0.627,0.684,(1.4777)+(-0.0058)Thr+(-0.0810)Cit;0.626,0.657,0.696,0.767,0.645,0.679,0.627,0.679,(2.3462)+(-0.0027)Gly+(-0.0552)Tyr;0.626,0.648,0.652,0.651,0.689,0.689,0.551,0.645,(0.7903)+(0.0012)Gly+(-0.0878)Cit;0.626,0.657,0.671,0.750,0.622,0.681,0.554,0.652,(1.8014)+(-0.0007)Thr+(-0.0540)Tyr;0.625,0.646,0.664,0.662,0.697,0.690,0.582,0.657,(1.0033)+(-0.0855)Cit+(-0.0003)Pro;0.625,0.651,0.636,0.684,0.596,0.738,0.520,0.635,(-0.5966)+(0.0186)Ser+(-0.0150)Val;0.624,0.657,0.689,0.737,0.653,0.756,0.591,0.684,(0.8263)+(-0.0178)Val+(0.0220)Orn;0.623,0.654,0.685,0.689,0.693,0.738,0.620,0.685,(1.3552)+(0.0218)Orn+(-0.0227)Lys;0.622,0.647,0.662,0.660,0.692,0.689,0.583,0.656,(0.5838)+(0.0008)Gln+(-0.0880)Cit;0.621,0.653,0.748,0.807,0.728,0.790,0.603,0.732,(2.8091)+(-0.0205)Arg+(-0.0129)Val;0.620,0.651,0.689,0.740,0.641,0.693,0.652,0.682,(0.0155)+(-0.0192)Val+(0.0395)Phe;0.620,0.651,0.744,0.790,0.716,0.802,0.640,0.737,(2.5515)+(-0.0106)Val+(-0.0108)Lys;0.617,0.647,0.696,0.701,0.695,0.706,0.676,0.695,(0.8491)+(-0.0220)Lys+(0.0

271)Phe;0.615,0.639,0.644,0.636,0.681,0.658,0.577,0.638,(0.3037)+(-0.0884)Cit+(0.0129)Phe;0.611,0.638,0.724,0.742,0.719,0.746,0.673,0.720,(1.9680)+(-0.0011)Gly+(-0.0183)Lys;0.611,0.647,0.722,0.747,0.709,0.757,0.656,0.718,(1.2350)+(0.0014)Gln+(-0.0199)Lys;0.611,0.641,0.708,0.726,0.702,0.744,0.649,0.705,(1.6959)+(0.0014)Pro+(-0.0191)Lys;0.610,0.635,0.646,0.645,0.666,0.665,0.591,0.642,(-0.0841)+(-0.0308)Arg+(0.0193)Ile;0.609,0.638,0.720,0.742,0.712,0.752,0.657,0.716,(1.8217)+(-0.0012)Thr+(-0.0180)Lys;0.607,0.6

36,0.688,0.743,0.641,0.730,0.608,0.681,(1.2424)+(0.0047)Pro+(-0.0170)Val;0.605,0.638,0.723,0.757,0.713,0.762,0.626,0.715,(1.9476)+(-0.0162)Lys+(-0.0053)Leu;0.605,0.635,0.742,0.794,0.692,0.768,0.691,0.736,(1.9032)+(-0.0023)Gly+(-0.0149)Val;0.603,0.644,0.599,0.600,0.567,0.693,0.597,0.614,(-2.5189)+(0.0324)Ser+(-0.0236)Thr;0.599,0.633,0.716,0.777,0.669,0.764,0.619,0.707,(1.5073)+(-0.0001)Gln+(-0.0149)Val;0.596,0.634,0.736,0.792,0.688,0.771,0.661,0.728,(1.7582)+(-0.0046)Thr+(-0.0140)Val;0.596,0.627,0.665,0.685,0.698,0.695,0.525,0.651,(0.3433)+(-0.0306)Arg+(0.0128)Orn;0.595,0.629,0.728,0.786,0.733,0.753,0.548,0.705,(1.9642)+(-0.0239)Arg+(-0.0135)Leu;0.592,0.622,0.687,0.720,0.705,0.691,0.562,0.670,(0.2892)+(0.0012)Gln+(-0.0295)Arg;0.591,0.623,0.701,0.732,0.713,0.701,0.594,0.685,(0.9755)+(-0.0037)Thr+(-0.0249)Arg;0.590,0.620,0.683,0.713,0.705,0.690,0.555,0.666,(0.7635)+(-0.0276)Arg+(0.0001)Pro;0.590,0.621,0.688,0.716,0.709,0.689,0.567,0.671,(0.8327)+(-0.0004)Gly+(-0.0273)Arg;0.589,0.623,0.531,0.479,0.520,0.596,0.644,0.560,(-3.2575)+(0.0302)Ser+(-0.0083)Gly;0.583,0.619,0.672,0.697,0.695,0.670,0.556,0.655,(0.2642)+(-0.0289)Arg+(0.0109)Phe;0.579,0.624,0.454,0.413,0.483,0.602,0.395,0.473,(-1.8253)+(0.0271)Ser+(-0.0049)Gln;0.574,0.613,0.577,0.622,0.564,0.677,0.415,0.570,(-1.8132)+(0.0190)Ser+(-0.0170)Leu;0.572,0.618,0.639,0.620,0.603,0.638,0.767,0.657,(-0.8939)+(-0.0159

)Thr+(0.0180)Ile;0.569,0.605,0.394,0.342,0.393,0.534,0.430,0.425,(-4.4991)+(0.0200)Ser+(0.0115)Ile;0.552,0.621,0.683,0.686,0.656,0.698,0.718,0.690,(-0.4947)+(-0.0157)Thr+(0.0121)Orn;0.550,0.599,0.467,0.456,0.465,0.593,0.407,0.480,(-3.4533)+(0.0200)Ser+(-0.0027)Pro;0.544,0.591,0.705,0.725,0.674,0.674,0.738,0.703,(-0.0754)+(-0.0006)Gly+(-0.0126)Thr;0.542,0.586,0.732,0.788,0.700,0.739,0.646,0.718,(0.9960)+(-0.0087)Thr+(-0.0146)Leu;0.538,0.593,0.661,0.721,0.652,0.707,0.486,0.642,(-0.0989)+(0.0130)Orn+(-0.0199)Leu;0.538,0.592,0.700,0.722,0.669,0.677,0.723,0.698,(-0.1305)+(-0.0001)Gln+(-0.0128)Thr;0.536,0.584,0.656,0.721,0.640,0.626,0.540,0.632,(-0.7104)+(-0.0235)Leu+(0.0296)Phe;0.534,0.581,0.428,0.406,0.430,0.559,0.387,0.445,(-3.6022)+(0.0197)Ser+(-0.0032)Phe;0.533,0.576,0.725,0.785,0.698,0.718,0.625,0.707,(0.7956)+(-0.0023)Gly+(-0.0173)Leu;0.532,0.593,0.690,0.708,0.658,0.665,0.725,0.689,(-0.4103)+(-0.0135)Thr+(0.0056)Phe;0.530,0.592,0.700,0.723,0.668,0.678,0.723,0.698,(-0.1545)+(-0.0129)Thr+(0.0000)Pro;0.524,0.572,0.669,0.742,0.645,0.692,0.510,0.647,(0.2198)+(0.0018)Pro+(-0.0186)Leu;0.521,0.571,0.437,0.424,0.432,0.546,0.405,0.452,(-3.5449)+(0.0206)Ser+(-0.0062)Orn;0.521,0.573,0.687,0.758,0.671,0.713,0.515,0.664,(0.5502)+(-0.0005)Gln+(-0.0169)Leu

[0379] 0.847,0.863,0.807,0.794,0.809,0.813,0.833,0.813,(6.1203)+(-0.1057)His+(0.1038)Phe+(-0.1160)Trp;0.843,0.861,0.766,0.764,0.770,0.765,0.763,0.766,(0.3860)+(0.0285)Ser+(0.0708)Phe+(-0.1800)Trp;0.841,0.852,0.788,0.762,0.789,0.818,0.835,0.801,(7.5109)+(-0.0925)His+(0.0651)Ile+(-0.1199)Trp;0.837,0.851,0.786,0.780,0.786,0.849,0.754,0.793,(5.9269)+(0.0370)Ser+(-0.0914)His+(-0.0960)Trp;0.835,0.847,0.775,0.766,0.739,0.813,0.848,0.791,(5.0718)+(-0.0408)Val+(0.1480)Ile+(-0.1381)Trp;0.833,0.848,0.787,0.782,0.771,0.804,0.820,0.795,(4.8174)+(0.1394)Ile+(-0.0646)Leu+(-0.1464)Trp;0.832,0.846,0.821,0.826,0.811,0.845,0.810,0.823,(5.8

821)+(0.0098)Gln+(-0.1088)His+(-0.1000)Trp;0.830,0.845,0.796,0.793,0.801,0.835,0.765,0.798,(8.3046)+(-0.0932)His+(0.0211)Thr+(-0.1065)Trp;0.828,0.847,0.811,0.820,0.813,0.770,0.809,0.803,(3.4267)+(-0.0070)Val+(0.0829)Phe+(-0.1635)Trp;0.828,0.843,0.803,0.815,0.800,0.838,0.753,0.801,(4.9322)+(0.0381)Ser+(-0.0943)Asn+(-0.1322)Trp;0.828,0.842,0.803,0.816,0.803,0.844,0.739,0.800,(4.3243)+(0.0350)Ser+(-0.1297)Met+(-0.1329)Trp;0.827,0.841,0.744,0.727,0.745,0.776,0.766,0.753,(1.4558)+(0.0279)Ser+(0.0512)Ile+(-0.1787)Trp;0.826,0.839,0.793,0.776,0.804,0.807,0.807,0.798,(6.0150)+(-0.0807)Cit+(0.0621)Ile+(-0.1723)Trp;0.826,0.843,0.797,0.787,0.806,0.827,0.783,0.801,(8.0435)+(-0.0898)His+(0.0369)Orn+(-0.0989)Trp;0.825,0.845,0.824,0.830,0.832,0.776,0.826,0.816,(4.7154)+(-0.0675)Asn+(0.0782)Phe+(-0.1556)Trp;0.825,0.837,0.709,0.671,0.711,0.796,0.744,0.731,(0.7000)+(0.0434)Ser+(-0.1690)His+(0.0910)Phe;0.824,0.845,0.803,0.810,0.809,0.756,0.806,0.795,(2.4095)+(0.0022)Gln+(0.0670)Phe+(-0.1787)Trp;0.824,0.841,0.795,0.796,0.810,0.837,0.727,0.793,(4.8137)+(0.0312)Ser+(-0.0712)Cit+(-0.1507)Trp;0.824,0.837,0.705,0.655,0.706,0.816,0.756,0.733,(2.1410)+(0.0395)Ser+(-0.1546)His+(0.0546)Ile;0.823,0.844,0.826,0.834,0.836,0.786,0.816,0.818,(3.9066)+(-0.1992)Met+(0.1112)Phe+(-0.1427)Trp;0.822,0.839,0.811,0.810,0.829,0.788,0.797,0.806,(4.6574)+(-0.0877)Cit+(0.0903)Phe+(-0.1721)Trp;0.822,0.842,0.792,0.794,0.807,0.751,0.787,0.785,(3.0429)+(0.0058)Thr+(0.0671)Phe+(-0.1790)Trp;0.822,0.839,0.774,0.762,0.781,0.744,0.813,0.775,(2.9066)+(0.0405)Ile+(0.0456)Phe+(-0.1860)Trp;0.822,0.841,0.797,0.801,0.807,0.750,0.800,0.789,(3.1910)+(0.0022)Pro+(0.0675)Phe+(-0.1750)Trp;0.821,0.843,0.821,0.828,0.814,0.798,0.834,0.819,(3.6992)+(-0.0060)Ala+(0.0835)Phe+(-0.1607)Trp;0.821,0.837,0.798,0.794,0.801,0.814,0.790,0.800,(8.4039)+(-0.0805)His+(0.0085)Pro+(-0.1012)Trp;0.821,0.835,0.801,0.794,0.831,0.824,0.740,0.797,(6.8352)+(-0.1114)Cit+(0.0546)Orn+(-0.1576)

Trp;0.821,0.842,0.802,0.808,0.812,0.755,0.801,0.794,(3.2872)+(-0.0019)Leu+(0.0716)Phe+(-0.1719)Trp;0.821,0.841,0.798,0.801,0.809,0.754,0.796,0.790,(3.1971)+(0.0053)Orn+(0.0661)Phe+(-0.1736)Trp;0.821,0.839,0.784,0.772,0.740,0.850,0.859,0.805,(4.6883)+(-0.0544)Val+(-0.2751)Met+(0.1901)Ile;0.821,0.840,0.801,0.805,0.812,0.753,0.803,0.793,(3.3119)+(-0.0002)Gly+(0.0696)Phe+(-0.1733)Trp;0.820,0.845,0.808,0.813,0.818,0.767,0.806,0.801,(3.5616)+(-0.0050)Lys+(0.0755)Phe+(-0.1678)Trp;0.818,0.838,0.794,0.811,0.793,0.747,0.786,0.784,(3.5386)+(-0.0340)Tyr+(0.0898)Phe+(-0.1607)Trp;0.817,0.831,0.794,0.776,0.803,0.814,0.811,0.801,(8.3524)+(-0.0941)His+(0.0241)Leu+(-0.1113)Trp;0.816,0.833,0.802,0.819,0.816,0.815,0.718,0.792,(6.6981)+(0.0249)Thr+(-0.1682)Met+(-0.1414)Trp;0.816,0.830,0.767,0.748,0.754,0.807,0.813,0.780,(2.0184)+(0.0088)Gln+(-0.1733)His+(0.0702)Phe;0.815,0.832,0.797,0.787,0.777,0.817,0.852,0.808,(5.0478)+(-0.0082)Ala+(0.0672)Ile+(-0.1566)Trp;0.815,0.830,0.793,0.802,0.785,0.835,0.756,0.795,(3.7617)+(0.0278)Ser+(-0.0037)Ala+(-0.1426)Trp;0.814,0.832,0.765,0.768,0.772,0.788,0.725,0.763,(2.8485)+(0.0270)Ser+(0.0046)Pro+(-0.1571)Trp;0.814,0.837,0.809,0.815,0.824,0.761,0.793,0.798,(3.9358)+(-0.0169)Arg+(0.0791)Phe+(-0.1682)Trp;0.814,0.828,0.801,0.799,0.804,0.813,0.791,0.802,(8.1974)+(-0.0879)His+(0.0110)Lys+(-0.1046)Trp;0.813,0.830,0.790,0.789,0.790,0.803,0.786,0.792,(3.6198)+(0.0383)Ser+(-0.0082)Gly+(-0.1524)Trp;0.813,0.830,0.803,0.808,0.804,0.832,0.769,0.803,(8.5172)+(0.0028)Gly+(-0.0799)His+(-0.0940)Trp;0.813,0.826,0.744,0.719,0.708,0.814,0.834,0.768,(5.3459)+(-0.0998)His+(-0.0349)Val+(0.1274)Ile;0.813,0.826,0.752,0.741,0.741,0.835,0.742,0.765,(2.9114)+(0.0285)Ser+(0.0059)Gln+(-0.1503)His;0.813,0.826,0.757,0.727,0.747,0.817,0.816,0.776,(3.0138)+(0.0083)Gln+(-0.1623)His+(0.0428)Ile;0.812,0.830,0.771,0.777,0.777,0.799,0.723,0.769,(2.9095)+(0.0258)Ser+(0.0108)Orn+(-0.1557)Trp;0.812,0.828,0.802,0.795,0.811,0.81

9,0.793,0.804,(8.6020)+(-0.0875)His+(0.0079)Val+(-0.1054)Trp;0.811,0.828,0.779,0.787,0.782,0.812,0.726,0.777,(3.5040)+(0.0291)Ser+(-0.0048)Lys+(-0.1458)Trp;0.810,0.827,0.777,0.788,0.777,0.808,0.724,0.774,(3.4604)+(0.0273)Ser+(-0.0085)Tyr+(-0.1480)Trp;0.810,0.828,0.763,0.762,0.771,0.788,0.732,0.763,(2.5854)+(0.0277)Ser+(0.0099)Leu+(-0.1631)Trp;0.810,0.827,0.778,0.770,0.777,0.769,0.807,0.780,(3.5132)+(0.0019)Gln+(0.0481)Ile+(-0.1761)Trp;0.810,0.827,0.795,0.786,0.796,0.799,0.816,0.799,(5.6954)+(-0.1645)Met+(0.0656)Ile+(-0.1435)Trp;0.810,0.826,0.777,0.785,0.780,0.805,0.732,0.776,(3.1987)+(0.0284)Ser+(-0.0023)Thr+(-0.1503)Trp;0.810,0.822,0.713,0.674,0.723,0.814,0.725,0.734,(3.1069)+(0.0389)Ser+(-0.1528)His+(0.0197)Leu;0.809,0.828,0.774,0.782,0.778,0.801,0.727,0.772,(3.1956)+(0.0271)Ser+(-0.0000)Val+(-0.1525)Trp;0.809,0.826,0.804,0.807,0.827,0.824,0.734,0.798,(6.9782)+(0.0146)Thr+(-0.0722)Cit+(-0.1572)Trp;0.809,0.825,0.810,0.812,0.810,0.827,0.789,0.810,(8.8689)+(-0.0762)His+(-0.0001)Ala+(-0.0948)Trp;0.809,0.828,0.774,0.782,0.778,0.801,0.726,0.772,(3.2050)+(0.0272)Ser+(-0.0000)Gln+(-0.1524)Trp;0.808,0.827,0.726,0.697,0.735,0.826,0.714,0.743,(3.7633)+(0.0330)Ser+(-0.1411)His+(0.0244)Orn;0.808,0.826,0.793,0.784,0.792,0.791,0.821,0.797,(5.7175)+(-0.0548)Asn+(0.0503)Ile+(-0.1556)Trp;0.808,0.827,0.827,0.836,0.837,0.829,0.778,0.820,(5.3892)+(0.0055)Gln+(-0.0743)Cit+(-0.1543)Trp;0.808,0.822,0.773,0.761,0.776,0.766,0.803,0.776,(4.2285)+(0.0012)Orn+(0.0490)Ile+(-0.1716)Trp;0.808,0.822,0.750,0.723,0.734,0.813,0.813,0.771,(5.3562)+(-0.1130)His+(0.1080)Ile+(-0.0454)Leu;0.808,0.825,0.811,0.814,0.810,0.827,0.789,0.810,(8.9680)+(-0.0058)Asn+(-0.0747)His+(-0.0944)Trp;0.807,0.827,0.809,0.803,0.814,0.829,0.799,0.811,(8.5780)+(-0.0825)His+(0.0182)Tyr+(-0.1025)Trp;0.807,0.820,0.769,0.738,0.748,0.836,0.847,0.792,(5.9932)+(-0.1222)His+(-0.0065)Ala+(0.0581)Ile;0.807,0.826,0.782,0.794,0.790,0.816,0.706,0.777,(3.8894)+(0.0312)Ser+

(-0.0178)Arg+(-0.1448)Trp;0.806,0.819,0.722,0.695,0.726,0.819,0.713,0.738,(3.6702)+(0.0365)Ser+(-0.1381)His+(0.0064)Pro;0.806,0.819,0.747,0.724,0.744,0.831,0.754,0.763,(4.3049)+(0.0422)Ser+(-0.0047)Gly+(-0.1309)His;0.806,0.825,0.769,0.758,0.773,0.764,0.796,0.773,(4.0910)+(0.0035)Thr+(0.0484)Ile+(-0.1746)Trp;0.805,0.822,0.775,0.763,0.779,0.767,0.808,0.779,(4.3381)+(-0.0004)Gly+(0.0493)Ile+(-0.1712)Trp;0.805,0.823,0.771,0.769,0.765,0.766,0.795,0.774,(4.8101)+(-0.0217)Tyr+(0.0537)Ile+(-0.1610)Trp;0.805,0.823,0.804,0.802,0.823,0.808,0.766,0.800,(7.1369)+(-0.0711)Cit+(0.0084)Pro+(-0.1501)Trp;0.804,0.826,0.809,0.811,0.810,0.827,0.789,0.809,(8.8109)+(-0.0768)His+(0.0012)Arg+(-0.0952)Trp;0.804,0.821,0.753,0.740,0.751,0.839,0.727,0.764,(4.8557)+(0.0410)Ser+(-0.0580)Asn+(-0.1163)His;0.804,0.825,0.811,0.814,0.811,0.827,0.788,0.810,(8.9122)+(-0.0749)His+(-0.0084)Met+(-0.0941)Trp;0.804,0.820,0.807,0.818,0.794,0.815,0.798,0.806,(6.0813)+(-0.0065)Ala+(0.0108)Pro+(-0.1376)Trp;0.804,0.823,0.806,0.819,0.815,0.807,0.753,0.798,(7.0940)+(-0.0817)Asn+(0.0180)Thr+(-0.1425)Trp;0.803,0.824,0.837,0.854,0.832,0.827,0.813,0.831,(5.2819)+(-0.0842)Asn+(0.0066)Gln+(-0.1385)Trp;0.803,0.818,0.746,0.731,0.738,0.841,0.730,0.760,(4.3899)+(0.0357)Ser+(-0.1271)His+(-0.0019)Ala;0.803,0.819,0.805,0.802,0.791,0.846,0.811,0.813,(4.5718)+(-0.0590)Asn+(0.0113)Gln+(-0.1379)His;0.803,0.820,0.806,0.808,0.790,0.849,0.798,0.811,(4.3417)+(0.0108)Gln+(-0.1346)His+(-0.0961)Met;0.803,0.818,0.726,0.699,0.733,0.821,0.717,0.742,(3.7074)+(0.0371)Ser+(-0.1426)His+(0.0051)Val;0.803,0.821,0.775,0.764,0.777,0.769,0.807,0.779,(4.3262)+(-0.0019)Pro+(0.0518)Ile+(-0.1706)Trp;0.803,0.825,0.760,0.752,0.759,0.850,0.716,0.769,(4.6315)+(0.0395)Ser+(-0.1137)His+(-0.0967)Met;0.803,0.821,0.803,0.798,0.824,0.798,0.777,0.799,(6.9309)+(-0.0715)Cit+(0.0162)Leu+(-0.1593)Trp;0.803,0.822,0.779,0.765,0.781,0.779,0.808,0.783,(4.8509)+(-0.0077)Lys+(0.0554)Ile+(-0.1621)Trp;0.802,0.

817,0.735,0.695,0.733,0.785,0.810,0.756,(4.2572)+(-0.1461)His+(0.0325)Ile+(0.0507)Phe;0.802,0.818,0.826,0.833,0.838,0.832,0.777,0.820,(8.3805)+(-0.0347)Asn+(-0.0578)Cit+(-0.1321)Trp;0.802,0.813,0.768,0.748,0.762,0.819,0.798,0.782,(3.5916)+(0.0092)Gln+(-0.1620)His+(0.0129)Leu;0.802,0.817,0.768,0.752,0.765,0.823,0.777,0.779,(3.9165)+(0.0081)Gln+(-0.1538)His+(0.0212)Orn;0.801,0.823,0.813,0.815,0.819,0.833,0.779,0.812,(9.2144)+(-0.0654)His+(-0.0311)Cit+(-0.0986)Trp;0.801,0.819,0.801,0.815,0.799,0.788,0.773,0.794,(4.3239)+(0.0027)Gln+(0.0039)Pro+(-0.1561)Trp;0.801,0.816,0.732,0.712,0.733,0.827,0.711,0.746,(4.1517)+(0.0343)Ser+(-0.1354)His+(0.0035)Thr;0.801,0.814,0.729,0.687,0.729,0.796,0.788,0.750,(5.1464)+(-0.1456)His+(0.0119)Thr+(0.0436)Ile;0.801,0.818,0.824,0.832,0.834,0.834,0.778,0.819,(7.7964)+(-0.0021)Ala+(-0.0603)Cit+(-0.1349)Trp;0.801,0.815,0.793,0.793,0.774,0.843,0.798,0.802,(4.3649)+(0.0093)Gln+(-0.1435)His+(-0.0024)Ala;0.801,0.817,0.811,0.814,0.831,0.812,0.765,0.805,(7.2700)+(-0.0686)Cit+(0.0045)Val+(-0.1507)Trp;0.801,0.821,0.783,0.765,0.789,0.798,0.809,0.790,(4.7615)+(-0.1213)His+(-0.1757)Met+(0.1150)Phe;0.801,0.820,0.796,0.798,0.790,0.792,0.805,0.796,(5.6507)+(-0.0234)Val+(0.0470)Leu+(-0.1506)Trp;0.800,0.816,0.738,0.719,0.737,0.831,0.720,0.752,(4.2496)+(0.0359)Ser+(-0.1311)His+(-0.0011)Lys;0.800,0.822,0.831,0.852,0.824,0.828,0.791,0.824,(4.8052)+(0.0061)Gln+(-0.1296)Met+(-0.1348)Trp;0.800,0.813,0.770,0.762,0.760,0.820,0.775,0.779,(4.1381)+(0.0083)Gln+(-0.1538)His+(0.0072)Thr;0.800,0.820,0.810,0.819,0.815,0.799,0.784,0.804,(6.8969)+(-0.0563)Asn+(0.0063)Pro+(-0.1355)Trp;0.800,0.815,0.729,0.706,0.728,0.783,0.756,0.743,(3.8156)+(0.0049)Gly+(-0.1500)His+(0.0793)Phe;0.799,0.817,0.728,0.697,0.732,0.773,0.770,0.743,(4.1977)+(-0.1568)His+(0.0141)Thr+(0.0711)Phe;0.799,0.818,0.810,0.819,0.819,0.805,0.774,0.804,(6.6221)+(-0.0626)Asn+(0.0241)Orn+(-0.1347)Trp;0.799,

0.819,0.788,0.797,0.797,0.778,0.755,0.782,(4.9954)+(0.0033)Pro+(0.014
6)Orn+(-0.1529)Trp;0.799,0.818,0.810,0.818,0.826,0.824,0.745,0.804,(7
.2294)+(0.0021)Gly+(-0.0662)Cit+(-0.1419)Trp;0.799,0.818,0.788,0.798,
0.795,0.781,0.749,0.781,(5.1587)+(0.0066)Thr+(0.0037)Pro+(-0.1561)Trp
;0.799,0.812,0.777,0.766,0.768,0.824,0.790,0.787,(3.9080)+(0.0093)Gln
+(-0.1550)His+(0.0027)Val;0.798,0.817,0.743,0.729,0.748,0.833,0.705,0
.754,(4.6112)+(0.0384)Ser+(-0.1262)His+(-0.0138)Arg;0.798,0.813,0.781
,0.775,0.769,0.829,0.788,0.790,(4.1316)+(-0.0002)Gly+(0.0093)Gln+(-0.
1498)His;0.798,0.813,0.782,0.777,0.770,0.830,0.788,0.791,(4.1650)+(0.
0093)Gln+(-0.1490)His+(-0.0008)Lys;0.798,0.812,0.755,0.749,0.670,0.84
3,0.881,0.786,(2.4334)+(-0.0107)Ala+(-0.0528)Val+(0.1714)Ile;0.798,0.
819,0.805,0.816,0.810,0.799,0.771,0.799,(6.6861)+(0.0096)Pro+(-0.1264
)Met+(-0.1290)Trp;0.798,0.815,0.737,0.720,0.736,0.828,0.717,0.750,(4.
2895)+(0.0356)Ser+(-0.1300)His+(-0.0046)Tyr;0.798,0.816,0.813,0.819,0
.829,0.814,0.762,0.806,(7.2107)+(-0.0638)Cit+(0.0033)Lys+(-0.1461)Trp
;0.797,0.811,0.771,0.761,0.761,0.820,0.786,0.782,(3.9323)+(0.0090)Gln
+(-0.1519)His+(0.0037)Pro;0.797,0.817,0.796,0.808,0.802,0.794,0.752,0
.789,(5.3565)+(-0.0037)Val+(0.0209)Orn+(-0.1438)Trp;0.797,0.816,0.823
,0.831,0.835,0.828,0.770,0.816,(7.9208)+(-0.0559)Cit+(-0.0474)Met+(-0
.1314)Trp;0.797,0.815,0.771,0.752,0.756,0.816,0.818,0.786,(4.9478)+(-
0.1345)His+(-0.0044)Ala+(0.0817)Phe;0.797,0.813,0.738,0.720,0.743,0.8
30,0.706,0.750,(4.4233)+(0.0368)Ser+(-0.1250)His+(-0.0296)Cit;0.797,0
.816,0.797,0.809,0.800,0.787,0.765,0.791,(5.6255)+(0.0058)Pro+(-0.002
8)Val+(-0.1449)Trp;0.797,0.817,0.817,0.819,0.834,0.822,0.771,0.811,(7
.3477)+(-0.0649)Cit+(0.0076)Tyr+(-0.1456)Trp;0.797,0.815,0.755,0.749,
0.740,0.778,0.787,0.764,(4.9925)+(-0.1332)His+(-0.0409)Tyr+(0.0989)Ph
e;0.797,0.817,0.739,0.704,0.742,0.790,0.785,0.755,(4.2734)+(-0.1473)H
is+(0.0224)Orn+(0.0642)Phe;0.796,0.817,0.799,0.811,0.805,0.789,0.763,

0.792,(4.2821)+(0.0023)Gln+(0.0135)Orn+(-0.1554)Trp;0.796,0.810,0.765,0.758,0.705,0.832,0.859,0.788,(5.2744)+(-0.1234)Asn+(-0.0559)Val+(0.1648)Ile;0.796,0.816,0.799,0.814,0.802,0.790,0.759,0.791,(4.4453)+(0.0024)Gln+(0.0055)Thr+(-0.1576)Trp;0.796,0.817,0.816,0.820,0.830,0.823,0.767,0.810,(7.3786)+(-0.0655)Cit+(0.0035)Arg+(-0.1428)Trp;0.796,0.815,0.788,0.797,0.798,0.785,0.742,0.781,(4.9842)+(0.0053)Thr+(0.0138)Orn+(-0.1553)Trp;0.796,0.818,0.779,0.770,0.785,0.773,0.793,0.780,(5.0473)+(-0.0151)Arg+(0.0524)Ile+(-0.1642)Trp;0.796,0.813,0.733,0.688,0.738,0.802,0.793,0.755,(5.1743)+(-0.1399)His+(0.0207)Orn+(0.0397)Ile;0.796,0.814,0.794,0.807,0.801,0.794,0.743,0.786,(5.5010)+(0.0089)Thr+(-0.0019)Val+(-0.1510)Trp;0.796,0.815,0.791,0.799,0.797,0.774,0.773,0.786,(5.1953)+(0.0039)Pro+(0.0061)Leu+(-0.1559)Trp;0.795,0.809,0.726,0.689,0.725,0.798,0.774,0.747,(4.8966)+(0.0041)Gly+(-0.1388)His+(0.0479)Ile;0.795,0.813,0.755,0.735,0.748,0.789,0.797,0.767,(4.7788)+(-0.1369)His+(-0.0061)Val+(0.0850)Phe;0.795,0.816,0.798,0.808,0.803,0.780,0.773,0.791,(5.6160)+(-0.0010)Gly+(0.0049)Pro+(-0.1495)Trp;0.795,0.814,0.794,0.794,0.783,0.842,0.780,0.800,(4.2855)+(0.0113)Gln+(-0.1468)His+(-0.0180)Arg;0.795,0.813,0.805,0.820,0.800,0.821,0.763,0.801,(5.9142)+(0.0119)Thr+(-0.0044)Ala+(-0.1462)Trp;0.795,0.813,0.807,0.818,0.804,0.814,0.778,0.804,(5.7061)+(-0.0046)Ala+(0.0233)Orn+(-0.1394)Trp;0.794,0.813,0.797,0.806,0.804,0.782,0.768,0.790,(5.3946)+(-0.0015)Gly+(0.0182)Orn+(-0.1500)Trp;0.794,0.807,0.744,0.709,0.741,0.801,0.804,0.764,(5.6225)+(-0.1339)His+(-0.0017)Pro+(0.0476)Ile;0.794,0.811,0.748,0.722,0.746,0.785,0.793,0.761,(4.6778)+(-0.1427)His+(-0.0011)Leu+(0.0746)Phe;0.794,0.815,0.789,0.795,0.798,0.776,0.761,0.783,(4.9700)+(0.0150)Orn+(0.0051)Leu+(-0.1554)Trp;0.794,0.814,0.792,0.808,0.793,0.783,0.756,0.785,(5.7771)+(0.0063)Pro+(-0.0142)Tyr+(-0.1432)Trp;0.794,0.814,0.805,0.816,0.812,0.811,0.756,0.799,(6.2480)+(-0.1144)Met+(0.0265)Orn

+(-0.1300)Trp;0.794,0.811,0.816,0.831,0.817,0.796,0.788,0.808,(6.8947)+(-0.0617)Asn+(0.0064)Lys+(-0.1383)Trp;0.794,0.814,0.792,0.806,0.801,0.793,0.740,0.785,(5.5662)+(0.0100)Thr+(-0.0030)Lys+(-0.1515)Trp;0.794,0.811,0.783,0.782,0.767,0.827,0.785,0.790,(4.2965)+(0.0093)Gln+(-0.1450)His+(-0.0093)Tyr;0.794,0.813,0.797,0.807,0.808,0.783,0.761,0.790,(5.6920)+(-0.0024)Gly+(0.0101)Thr+(-0.1556)Trp;0.793,0.811,0.744,0.716,0.743,0.780,0.794,0.758,(4.6082)+(-0.1435)His+(0.0014)Pro+(0.0715)Phe;0.793,0.816,0.794,0.805,0.804,0.786,0.752,0.787,(5.3204)+(0.0192)Orn+(-0.0025)Lys+(-0.1469)Trp;0.793,0.815,0.795,0.807,0.800,0.783,0.765,0.789,(5.4706)+(0.0049)Pro+(-0.0004)Lys+(-0.1493)Trp;0.793,0.814,0.765,0.735,0.765,0.808,0.814,0.781,(6.2924)+(-0.1115)His+(-0.1437)Met+(0.0614)Ile;0.793,0.811,0.809,0.828,0.807,0.797,0.776,0.802,(4.5282)+(0.0032)Gln+(-0.0014)Val+(-0.1505)Trp;0.793,0.807,0.747,0.712,0.746,0.801,0.806,0.766,(5.8441)+(-0.0156)Asn+(-0.1291)His+(0.0452)Ile;0.793,0.813,0.825,0.844,0.811,0.828,0.802,0.821,(4.7615)+(0.0040)Gln+(-0.0042)Ala+(-0.1437)Trp;0.793,0.815,0.800,0.812,0.801,0.785,0.779,0.794,(4.1968)+(0.0029)Gln+(0.0070)Leu+(-0.1604)Trp;0.792,0.810,0.758,0.736,0.756,0.789,0.801,0.770,(5.1249)+(-0.0297)Asn+(-0.1346)His+(0.0762)Phe;0.792,0.813,0.788,0.807,0.793,0.786,0.731,0.779,(5.6817)+(0.0106)Thr+(-0.0143)Tyr+(-0.1488)Trp;0.792,0.813,0.807,0.829,0.801,0.797,0.769,0.799,(4.6193)+(0.0036)Gln+(-0.0114)Tyr+(-0.1477)Trp;0.792,0.814,0.785,0.792,0.796,0.774,0.750,0.778,(5.0110)+(0.0075)Thr+(0.0072)Leu+(-0.1615)Trp;0.792,0.811,0.791,0.805,0.795,0.790,0.745,0.784,(5.4696)+(-0.0144)Tyr+(0.0208)Orn+(-0.1432)Trp;0.792,0.806,0.825,0.841,0.821,0.824,0.793,0.820,(7.3985)+(-0.0434)Asn+(-0.0021)Ala+(-0.1270)Trp;0.792,0.813,0.810,0.828,0.809,0.798,0.775,0.802,(4.5134)+(0.0034)Gln+(-0.0019)Lys+(-0.1508)Trp;0.792,0.810,0.745,0.721,0.734,0.792,0.795,0.761,(6.1180)+(-0.1249)His+(-0.0267)Tyr+(0.0521)Ile;0.791,0.812,0.815,0.

830,0.814,0.792,0.793,0.807,(4.6372)+(-0.0022)Gly+(0.0036)Gln+(-0.153
2)Trp;0.791,0.814,0.767,0.764,0.774,0.827,0.717,0.770,(7.1487)+(-0.11
58)His+(0.0279)Thr+(-0.1455)Met;0.791,0.810,0.749,0.723,0.747,0.787,0
.795,0.763,(4.8024)+(-0.1410)His+(-0.0023)Lys+(0.0755)Phe;0.791,0.810
,0.786,0.779,0.777,0.835,0.785,0.794,(4.2753)+(0.0099)Gln+(-0.1424)Hi
s+(-0.0345)Cit;0.790,0.808,0.819,0.834,0.822,0.808,0.784,0.812,(7.227
4)+(-0.0493)Asn+(-0.0003)Val+(-0.1307)Trp;0.790,0.811,0.797,0.810,0.8
06,0.789,0.750,0.789,(6.0790)+(-0.0122)Arg+(0.0062)Pro+(-0.1447)Trp;0
.790,0.807,0.744,0.707,0.742,0.801,0.804,0.763,(5.7493)+(-0.1302)His+
(-0.0034)Lys+(0.0477)Ile;0.790,0.808,0.822,0.837,0.825,0.816,0.780,0.
815,(7.4464)+(-0.0291)Asn+(-0.0612)Met+(-0.1251)Trp;0.790,0.811,0.725
,0.737,0.728,0.755,0.665,0.721,(-3.8956)+(0.0461)Ser+(-0.3860)Met+(0.
1074)Phe;0.790,0.808,0.813,0.828,0.816,0.801,0.771,0.804,(6.4637)+(-0
.1161)Met+(0.0086)Lys+(-0.1362)Trp;0.790,0.810,0.817,0.832,0.820,0.80
9,0.779,0.810,(7.1177)+(-0.0507)Asn+(0.0006)Gly+(-0.1311)Trp;0.790,0.
808,0.764,0.741,0.764,0.828,0.780,0.778,(6.4775)+(-0.1222)His+(-0.003
4)Ala+(0.0360)Orn;0.789,0.808,0.810,0.818,0.815,0.792,0.790,0.804,(6.
7362)+(-0.0523)Asn+(0.0099)Leu+(-0.1411)Trp;0.788,0.812,0.817,0.838,0
.817,0.809,0.764,0.807,(4.7182)+(0.0047)Gln+(-0.0162)Arg+(-0.1483)Trp
;0.788,0.808,0.820,0.833,0.823,0.807,0.786,0.812,(7.1489)+(-0.0506)As
n+(0.0027)Tyr+(-0.1325)Trp;0.788,0.808,0.711,0.692,0.713,0.786,0.704,
0.724,(-2.2756)+(0.0463)Ser+(-0.3598)Met+(0.0667)Ile;0.787,0.807,0.75
1,0.726,0.752,0.785,0.788,0.763,(4.9596)+(-0.1397)His+(-0.0076)Arg+(0
.0755)Phe;0.787,0.805,0.742,0.708,0.742,0.797,0.796,0.761,(5.7860)+(-
0.1311)His+(-0.0055)Arg+(0.0456)Ile;0.787,0.810,0.790,0.807,0.807,0.7
93,0.708,0.779,(6.1198)+(0.0151)Thr+(-0.0190)Arg+(-0.1520)Trp;0.787,0
.808,0.802,0.817,0.806,0.791,0.765,0.794,(5.7631)+(-0.0011)Val+(0.001
4)Lys+(-0.1448)Trp;0.787,0.807,0.821,0.838,0.823,0.819,0.777,0.814,(7

.0144)+(-0.0012)Ala+(-0.0771)Met+(-0.1262)Trp;0.786,0.807,0.807,0.813,0.800,0.806,0.804,0.806,(5.8190)+(-0.0048)Ala+(0.0147)Leu+(-0.1472)Trp;0.786,0.808,0.735,0.708,0.746,0.805,0.735,0.749,(5.8708)+(-0.1387)His+(0.0106)Thr+(0.0275)Orn;0.786,0.809,0.823,0.833,0.831,0.815,0.786,0.816,(6.7016)+(0.0220)Tyr+(-0.1228)Met+(-0.1333)Trp;0.786,0.807,0.797,0.804,0.804,0.777,0.780,0.791,(5.5030)+(-0.0008)Gly+(0.0085)Leu+(-0.1541)Trp;0.786,0.804,0.817,0.832,0.813,0.816,0.787,0.812,(6.4245)+(-0.0005)Gly+(-0.0032)Ala+(-0.1355)Trp;0.786,0.805,0.819,0.834,0.822,0.808,0.780,0.811,(7.2801)+(-0.0464)Asn+(-0.0027)Arg+(-0.1306)Trp;0.786,0.807,0.802,0.819,0.803,0.790,0.762,0.794,(5.9934)+(-0.0053)Tyr+(-0.0002)Val+(-0.1413)Trp;0.786,0.808,0.794,0.806,0.808,0.796,0.735,0.786,(5.8391)+(-0.0158)Arg+(0.0243)Orn+(-0.1443)Trp;0.786,0.804,0.814,0.829,0.810,0.815,0.786,0.810,(6.2303)+(-0.0036)Ala+(0.0019)Val+(-0.1384)Trp;0.786,0.805,0.814,0.829,0.808,0.813,0.786,0.809,(6.0922)+(-0.0036)Ala+(0.0030)Lys+(-0.1395)Trp;0.785,0.806,0.800,0.817,0.801,0.785,0.762,0.791,(5.8544)+(-0.0071)Tyr+(0.0017)Lys+(-0.1435)Trp;0.785,0.806,0.816,0.834,0.820,0.811,0.766,0.808,(6.8851)+(0.0003)Gly+(-0.0874)Met+(-0.1276)Trp;0.785,0.809,0.795,0.802,0.803,0.777,0.772,0.788,(5.4835)+(-0.0018)Lys+(0.0097)Leu+(-0.1528)Trp;0.785,0.807,0.805,0.819,0.808,0.790,0.774,0.798,(6.0235)+(-0.0009)Gly+(-0.0006)Val+(-0.1432)Trp;0.785,0.801,0.761,0.751,0.755,0.824,0.756,0.772,(6.7803)+(-0.1262)His+(0.0162)Thr+(-0.0030)Ala;0.785,0.808,0.792,0.804,0.795,0.776,0.767,0.786,(5.6121)+(-0.0103)Tyr+(0.0100)Leu+(-0.1501)Trp;0.785,0.806,0.817,0.831,0.812,0.820,0.788,0.813,(6.2724)+(-0.0034)Ala+(0.0036)Tyr+(-0.1371)Trp;0.785,0.806,0.804,0.821,0.806,0.786,0.770,0.796,(6.1519)+(-0.0009)Gly+(-0.0057)Tyr+(-0.1412)Trp;0.785,0.797,0.756,0.731,0.749,0.809,0.798,0.772,(6.6774)+(-0.1230)His+(-0.0200)Val+(0.0435)Leu;0.784,0.800,0.741,0.703,0.746,0.798,0.792,0.760,(5.8176)+(-0.1253)His+(-0.034

0)Cit+(0.0475)Ile;0.784,0.804,0.818,0.835,0.815,0.818,0.776,0.811,(6.6717)+(-0.0028)Ala+(-0.0065)Arg+(-0.1332)Trp;0.784,0.804,0.740,0.714,0.751,0.809,0.735,0.752,(5.8436)+(0.0022)Gly+(-0.1317)His+(0.0321)Orn;0.784,0.802,0.740,0.706,0.751,0.804,0.760,0.755,(5.8858)+(-0.1364)His+(0.0294)Orn+(0.0081)Leu;0.784,0.806,0.804,0.817,0.809,0.787,0.773,0.797,(5.8656)+(-0.0009)Gly+(0.0011)Lys+(-0.1462)Trp;0.783,0.802,0.757,0.744,0.761,0.810,0.745,0.765,(7.1127)+(-0.0416)Asn+(-0.1237)His+(0.0189)Thr;0.783,0.800,0.731,0.703,0.737,0.793,0.749,0.745,(5.9361)+(-0.1454)His+(0.0149)Thr+(0.0130

)Leu;0.783,0.806,0.814,0.830,0.820,0.805,0.769,0.806,(6.7969)+(0.0022)Val+(-0.0927)Met+(-0.1308)Trp;0.783,0.806,0.817,0.835,0.820,0.810,0.767,0.808,(6.9855)+(-0.0014)Arg+(-0.0843)Met+(-0.1273)Trp;0.783,0.801,0.748,0.721,0.752,0.783,0.787,0.761,(4.9427)+(-0.1364)His+(-0.0316)Cit+(0.0770)Phe;0.783,0.802,0.751,0.725,0.760,0.810,0.759,0.764,(6.2198)+(-0.1266)His+(-0.0021)Val+(0.0348)Orn;0.783,0.805,0.805,0.811,0.813,0.792,0.780,0.799,(6.3971)+(-0.1169)Met+(0.0160)Leu+(-0.1379)Trp;0.782,0.802,0.741,0.711,0.751,0.805,0.754,0.755,(5.9329)+(-0.1309)His+(0.0030)Pro+(0.0306)Orn;0.782,0.803,0.756,0.730,0.767,0.814,0.761,0.768,(6.5383)+(-0.0242)Asn+(-0.1227)His+(0.0345)Orn;0.782,0.799,0.746,0.738,0.746,0.803,0.725,0.753,(6.8094)+(-0.1265)His+(0.0175)Thr+(-0.0178)Tyr;0.781,0.805,0.751,0.731,0.757,0.809,0.749,0.762,(6.5160)+(-0.1228)His+(-0.0191)Tyr+(0.0379)Orn;0.781,0.796,0.744,0.726,0.749,0.803,0.740,0.754,(6.4251)+(-0.1340)His+(0.0148)Thr+(0.0007)Val;0.781,0.807,0.766,0.744,0.777,0.824,0.758,0.776,(6.6441)+(-0.1159)His+(-0.0764)Met+(0.0375)Orn;0.781,0.797,0.738,0.718,0.744,0.795,0.738,0.749,(6.2349)+(-0.1338)His+(0.0135)Thr+(0.0035)Pro;0.781,0.796,0.740,0.725,0.744,0.803,0.728,0.750,(6.3053)+(0.0014)Gly+(-0.1332)His+(0.0140)Thr;0.781,0.797,0.746,0.729,0.751,0.805,0.741,0.756,(6.5100)+(-0.1324)His+(0.0

151)Thr+(-0.0006)Lys;0.780,0.801,0.748,0.720,0.759,0.807,0.756,0.760,(6.1382)+(-0.1297)His+(0.0331)Orn+(-0.0002)Lys;0.779,0.795,0.767,0.746,0.760,0.817,0.800,0.781,(6.8557)+(-0.1243)His+(-0.0038)Ala+(0.0168)Leu;0.779,0.802,0.764,0.760,0.734,0.817,0.800,0.778,(3.1078)+(-0.2396)Met+(0.1675)Ile+(-0.0812)Leu;0.778,0.802,0.805,0.822,0.812,0.795,0.753,0.795,(6.3459)+(-0.0090)Arg+(-0.0000)Val+(-0.1399)Trp;0.778,0.797,0.768,0.770,0.693,0.843,0.864,0.793,(1.7786)+(-0.0118)Ala+(0.1676)Ile+(-0.0861)Leu;0.778,0.798,0.748,0.736,0.758,0.808,0.716,0.754,(6.9726)+(-0.1297)His+(0.0192)Thr+(-0.0139)Arg;0.778,0.804,0.796,0.806,0.806,0.779,0.760,0.788,(5.9216)+(-0.0104)Arg+(0.0097)Leu+(-0.1501)Trp;0.778,0.793,0.738,0.714,0.743,0.801,0.747,0.751,(5.9686)+(0.0036)Gly+(-0.1351)His+(0.0144)Leu;0.777,0.800,0.800,0.817,0.809,0.787,0.746,0.790,(6.0966)+(-0.0127)Arg+(0.0047)Lys+(-0.1455)Trp;0.777,0.802,0.806,0.822,0.814,0.795,0.757,0.797,(6.4087)+(-0.0004)Gly+(-0.0088)Arg+(-0.1399)Trp;0.777,0.790,0.731,0.724,0.676,0.807,0.809,0.754,(2.9430)+(-0.0292)Arg+(-0.0568)Val+(0.1623)Ile;0.777,0.793,0.768,0.756,0.752,0.824,0.792,0.781,(6.9352)+(-0.1113)His+(-0.0052)Ala+(0.0098)Pro;0.776,0.799,0.750,0.724,0.764,0.811,0.744,0.761,(6.4860)+(-0.1257)His+(-0.0094)Arg+(0.0359)Orn;0.776,0.803,0.805,0.822,0.811,0.795,0.753,0.795,(6.3683)+(-0.0088)Arg+(-0.0011)Tyr+(-0.1393)Trp;0.775,0.796,0.745,0.709,0.771,0.818,0.730,0.757,(6.3753)+(-0.1195)His+(-0.0645)Cit+(0.0505)Orn;0.773,0.789,0.746,0.719,0.750,0.794,0.775,0.759,(6.3352)+(-0.1304)His+(0.0033)Pro+(0.0107)Leu;0.773,0.791,0.746,0.729,0.756,0.810,0.725,0.755,(6.7791)+(-0.1261)His+(0.0164)Thr+(-0.0315)Cit;0.773,0.789,0.751,0.739,0.751,0.808,0.741,0.760,(6.4815)+(0.0030)Gly+(-0.1251)His+(0.0023)Val;0.773,0.789,0.773,0.760,0.766,0.821,0.789,0.784,(7.1829)+(-0.1170)His+(-0.0028)Ala+(0.0033)Val;0.773,0.788,0.757,0.733,0.759,0.801,0.784,0.769,(6.8054)+(-0.0139)Asn+(-0.1260)His+(0.0128)Leu;0.773,0.790

,0.767,0.762,0.757,0.823,0.759,0.775,(6.9417)+(0.0027)Gly+(-0.1151)His+(-0.0021)Ala;0.772,0.787,0.751,0.725,0.754,0.801,0.778,0.764,(6.4821)+(-0.1311)His+(0.0008)Lys+(0.0124)Leu;0.771,0.788,0.741,0.726,0.743,0.798,0.736,0.751,(6.1975)+(0.0030)Gly+(-0.1244)His+(0.0054)Pro;0.771,0.787,0.770,0.760,0.759,0.818,0.786,0.781,(6.9282)+(-0.1189)His+(-0.0026)Ala+(0.0057)Lys;0.771,0.788,0.751,0.733,0.748,0.794,0.772,0.762,(6.8495)+(-0.1257)His+(-0.0142)Tyr+(0.0148)Leu;0.771,0.785,0.753,0.736,0.753,0.798,0.765,0.763,(6.6606)+(-0.1205)His+(0.0054)Pro+(-0.0006)Val;0.770,0.791,0.720,0.705,0.658,0.804,0.831,0.749,(2.6163)+(-0.0523)Val+(-0.0156)Lys+(0.1573)Ile;0.770,0.785,0.719,0.702,0.667,0.799,0.814,0.746,(2.1097)+(-0.0648)Cit+(-0.0522)Val+(0.1505)Ile;0.770,0.787,0.778,0.770,0.768,0.820,0.790,0.787,(7.5427)+(-0.0118)Asn+(-0.1091)His+(-0.0020)Ala;0.770,0.786,0.767,0.754,0.765,0.811,0.775,0.776,(7.2389)+(-0.0133)Asn+(-0.1160)His+(0.0012)Val;0.770,0.788,0.713,0.718,0.641,0.784,0.799,0.736,(2.5533)+(-0.0453)Tyr+(-0.0510)Val+(0.1527)Ile;0.770,0.788,0.761,0.754,0.758,0.814,0.745,0.768,(7.0163)+(-0.0207)Asn+(0.0033)Gly+(-0.1146)His;0.769,0.785,0.748,0.730,0.748,0.795,0.764,0.759,(6.4125)+(-0.1253)His+(0.0048)Pro+(0.0030)Lys;0.769,0.788,0.759,0.742,0.759,0.800,0.772,0.768,(6.9636)+(-0.0185)Asn+(-0.1158)His+(0.0055)Pro;0.769,0.786,0.775,0.767,0.766,0.822,0.784,0.785,(7.3567)+(-0.1119)His+(-0.0020)Ala+(-0.0016)Tyr;0.769,0.785,0.749,0.738,0.748,0.804,0.743,0.758,(6.3294)+(0.0028)Gly+(-0.1262)His+(0.0042)Lys;0.769,0.787,0.752,0.743,0.747,0.794,0.755,0.760,(6.9241)+(-0.1148)His+(0.0068)Pro+(-0.0162)Tyr;0.769,0.784,0.758,0.743,0.757,0.803,0.767,0.768,(6.6973)+(-0.1245)His+(0.0005)Val+(0.0040)Lys;0.769,0.788,0.753,0.729,0.756,0.800,0.774,0.765,(6.6793)+(-0.1286)His+(-0.0030)Arg+(0.0127)Leu;0.768,0.793,0.765,0.755,0.763,0.805,0.764,0.772,(7.1084)+(-0.1057)His+(0.0082)Pro+(-0.0867)Met;0.768,0.790,0.765,0.745,0.769,0.800,0.783,0.77

4,(7.0516)+(-0.1178)His+(-0.0865)Met+(0.0181)Leu;0.768,0.787,0.757,0.751,0.754,0.811,0.740,0.764,(6.7995)+(0.0027)Gly+(-0.1186)His+(-0.0040)Tyr;0.768,0.790,0.764,0.787,0.762,0.818,0.668,0.759,(1.4313)+(0.0426)Ser+(-0.0855)Asn+(-0.1762)Met;0.768,0.783,0.764,0.750,0.762,0.801,0.776,0.772,(7.0329)+(-0.0227)Asn+(-0.1189)His+(0.0057)Lys;0.767,0.786,0.763,0.752,0.760,0.806,0.768,0.772,(7.1377)+(-0.1181)His+(-0.0089)Tyr+(0.0023)Val;0.767,0.791,0.768,0.765,0.763,0.822,0.744,0.774,(7.0860)+(0.0032)Gly+(-0.1098)His+(-0.0546)Met;0.767,0.786,0.756,0.750,0.755,0.812,0.736,0.763,(6.8908)+(0.0031)Gly+(-0.1181)His+(-0.0051)Arg;0.767,0.787,0.779,0.773,0.771,0.822,0.782,0.787,(7.5575)+(-0.1062)His+(-0.0013)Ala+(-0.0403)Met;0.766,0.787,0.775,0.766,0.766,0.822,0.784,0.784,(7.4498)+(-0.1112)His+(-0.0020)Ala+(-0.0027)Arg;0.765,0.784,0.770,0.762,0.764,0.810,0.773,0.777,(7.4515)+(-0.0130)Asn+(-0.1115)His+(-0.0052)Tyr;0.765,0.782,0.759,0.751,0.752,0.801,0.765,0.767,(6.8983)+(-0.1206)His+(-0.0119)Tyr+(0.0059)Lys;0.765,0.781,0.754,0.746,0.759,0.815,0.722,0.761,(6.9164)+(0.0038)Gly+(-0.1134)His+(-0.0312)Cit;0.764,0.787,0.772,0.761,0.770,0.812,0.773,0.779,(7.3339)+(-0.1117)His+(0.0029)Val+(-0.0571)Met;0.764,0.785,0.754,0.737,0.756,0.800,0.758,0.763,(6.8590)+(-0.1188)His+(-0.0052)Arg+(0.0055)Pro;0.764,0.785,0.764,0.749,0.764,0.810,0.768,0.773,(7.1366)+(-0.1188)His+(-0.0036)Arg+(0.0015)Val;0.763,0.780,0.751,0.725,0.761,0.797,0.768,0.763,(6.8232)+(-0.1237)His+(-0.0274)Cit+(0.0134)Leu;0.763,0.785,0.775,0.768,0.771,0.817,0.774,0.782,(7.4745)+(-0.0004)Asn+(-0.1078)His+(-0.0490)Met;0.763,0.780,0.714,0.734,0.660,0.765,0.738,0.724,(2.1382)+(-0.0567)Tyr+(0.1557)Ile+(-0.0852)Leu;0.763,0.776,0.670,0.653,0.601,0.781,0.779,0.704,(-0.7855)+(0.0165)Ser+(-0.0556)Val+(0.1474)Ile;0.763,0.784,0.769,0.758,0.766,0.811,0.775,0.777,(7.4187)+(-0.0123)Asn+(-0.1129)His+(-0.0024)Arg;0.762,0.786,0.771,0.762,0.769,0.808,0.771,0.777,(6.9998)+(-0.1142)His+(-0

.0846)Met+(0.0096)Lys;0.762,0.780,0.752,0.732,0.759,0.801,0.755,0.762,(6.9361)+(-0.1148)His+(-0.0268)Cit+(0.0054)Pro;0.761,0.775,0.709,0.696,0.638,0.785,0.839,0.740,(1.5523)+(-0.0030)Gly+(-0.0562)Val+(0.1505)Ile;0.761,0.779,0.776,0.767,0.773,0.825,0.772,0.784,(7.6847)+(-0.1047)His+(-0.0024)Ala+(-0.0275)Cit;0.761,0.774,0.697,0.679,0.636,0.779,0.815,0.727,(2.5091)+(-0.0032)Gln+(-0.0562)Val+(0.1550)Ile;0.760,0.783,0.767,0.758,0.762,0.810,0.768,0.774,(7.3600)+(-0.1138)His+(-0.0031)Arg+(-0.0055)Tyr;0.760,0.773,0.698,0.692,0.627,0.783,0.800,0.726,(1.1194)+(-0.0448)Val+(0.1770)Ile+(-0.0364)Leu;0.760,0.775,0.708,0.699,0.636,0.790,0.820,0.736,(1.2005)+(-0.0053)Pro+(-0.0558)Val+(0.1564)Ile;0.760,0.785,0.775,0.767,0.770,0.816,0.773,0.782,(7.4896)+(-0.1077)His+(-0.0005)Arg+(-0.0486)Met;0.759,0.785,0.775,0.765,0.772,0.817,0.776,0.783,(7.4082)+(-0.1085)His+(0.0049)Tyr+(-0.0574)Met;0.759,0.778,0.761,0.744,0.767,0.805,0.758,0.769,(7.2302)+(-0.1151)His+(-0.0269)Cit+(0.0022)Val;0.759,0.780,0.758,0.744,0.760,0.800,0.761,0.766,(6.9309)+(-0.1226)His+(-0.0077)Arg+(0.0062)Lys;0.758,0.778,0.769,0.757,0.773,0.812,0.764,0.777,(7.6368)+(-0.0137)Asn+(-0.1072)His+(-0.0256)Cit;0.758,0.775,0.758,0.743,0.763,0.801,0.757,0.766,(7.0221)+(-0.1172)His+(-0.0256)Cit+(0.0042)Lys;0.758,0.774,0.693,0.680,0.620,0.777,0.819,0.724,(0.3392)+(-0.0570)Val+(0.1469)Ile+(0.0168)Phe;0.757,0.778,0.766,0.757,0.768,0.808,0.758,0.773,(7.5009)+(-0.1091)His+(-0.0253)Cit+(-0.0051)Tyr;0.757,0.781,0.775,0.767,0.779,0.817,0.761,0.781,(7.7415)+(-0.1023)His+(-0.0246)Cit+(-0.0459)Met;0.757,0.772,0.707,0.696,0.636,0.788,0.823,0.736,(1.4159)+(-0.0063)Thr+(-0.0547)Val+(0.1495)Ile;0.755,0.775,0.752,0.752,0.709,0.799,0.805,0.767,(3.2170)+(-0.0959)Asn+(0.1425)Ile+(-0.0828)Leu;0.755,0.778,0.760,0.774,0.745,0.814,0.718,0.763,(0.5617)+(0.0467)Ser+(-0.0073)Gly+(-0.2492)Met;0.755,0.778,0.764,0.750,0.768,0.810,0.758,0.771,(7.3593)+(-0.1116)His+(-0.0260)Cit+(0.0004)Arg;0.754

,0.779,0.749,0.762,0.770,0.821,0.619,0.743,(1.6186)+(0.0369)Ser+(-0.0672)Cit+(-0.2258)Met;0.754,0.778,0.773,0.765,0.744,0.811,0.827,0.787,(2.3927)+(-0.0080)Ala+(-0.2302)Met+(0.0660)Ile;0.754,0.777,0.759,0.786,0.742,0.844,0.661,0.758,(0.6519)+(0.0352)Ser+(-0.0029)Ala+(-0.2233)Met;0.754,0.780,0.733,0.760,0.740,0.816,0.586,0.726,(0.2631)+(0.0340)Ser+(0.0084)Thr+(-0.2814)Met;0.752,0.772,0.690,0.675,0.624,0.781,0.805,0.721,(0.7114)+(-0.0565)Val+(0.0086)Orn+(0.1475)Ile;0.752,0.775,0.747,0.737,0.755,0.734,0.768,0.749,(0.0520)+(-0.3443)Met+(0.0421)Ile+(0.0671)Phe;0.751,0.775,0.708,0.724,0.707,0.784,0.612,0.707,(-0.2763)+(0.0394)Ser+(0.0104)Pro+(-0.3014)Met;0.750,0.776,0.723,0.740,0.727,0.791,0.620,0.720,(-0.4704)+(0.0391)Ser+(-0.2831)Met+(0.0104)Leu;0.750,0.769,0.783,0.805,0.779,0.749,0.758,0.773,(1.1531)+(-0.0138)Val+(-0.2755)Met+(0.1120)Phe;0.747,0.769,0.762,0.783,0.724,0.845,0.724,0.769,(1.7482)+(0.0379)Ser+(-0.1364)Asn+(-0.0056)Ala;0.746,0.776,0.727,0.748,0.729,0.810,0.610,0.724,(-0.1296)+(0.0353)Ser+(-0.2683)Met+(0.0164)Orn;0.746,0.774,0.740,0.769,0.736,0.814,0.619,0.735,(-0.0743)+(0.0352)Ser+(0.0011)Gln+(-0.2585)Met;0.746,0.773,0.738,0.763,0.738,0.815,0.615,0.733,(0.1400)+(0.0368)Ser+(
0.0045)Tyr+(-0.2607)Met;0.746,0.770,0.731,0.741,0.741,0.797,0.638,0.729,(2.1540)+(0.0396)Ser+(-0.1421)Asn+(-0.0700)Cit;0.746,0.771,0.738,0.765,0.738,0.820,0.608,0.732,(0.4582)+(0.0365)Ser+(-0.2389)Met+(-0.0028)Lys;0.745,0.773,0.741,0.771,0.748,0.816,0.597,0.733,(0.7127)+(0.0374)Ser+(-0.0122)Arg+(-0.2308)Met;0.745,0.774,0.746,0.776,0.741,0.830,0.621,0.742,(0.7664)+(0.0349)Ser+(-0.0036)Val+(-0.2345)Met;0.744,0.763,0.725,0.741,0.743,0.697,0.663,0.711,(-0.4451)+(0.0224)Thr+(-0.3883)Met+(0.0934)Phe;0.744,0.762,0.781,0.796,0.772,0.761,0.777,0.777,(0.8574)+(-0.0052)Ala+(-0.2608)Met+(0.0912)Phe;0.744,0.765,0.752,0.739,0.748,0.779,0.772,0.760,(2.6270)+(-0.2513)Met+(-0.0101)Lys+(0.0585)Ile;0

.742,0.766,0.753,0.735,0.770,0.774,0.748,0.757,(3.0275)+(-0.0670)Cit+(-0.2520)Met+(0.0553)Ile;0.742,0.764,0.716,0.706,0.691,0.800,0.738,0.733,(1.6755)+(-0.0852)Cit+(0.1568)Ile+(-0.0897)Leu;0.741,0.761,0.771,0.794,0.767,0.729,0.747,0.759,(-1.3017)+(0.0045)Gln+(-0.3394)Met+(0.0874)Phe;0.740,0.764,0.748,0.759,0.757,0.709,0.730,0.739,(0.3020)+(0.0070)Pro+(-0.3324)Met+(0.0853)Phe;0.740,0.760,0.761,0.742,0.729,0.830,0.832,0.783,(2.1633)+(-0.0140)Ala+(-0.0933)Cit+(0.0592)Ile;0.740,0.760,0.769,0.780,0.778,0.736,0.746,0.760,(0.9836)+(-0.2817)Met+(-0.0070)Lys+(0.0910)Phe;0.740,0.763,0.691,0.690,0.687,0.732,0.672,0.695,(-1.2217)+(0.0446)Ser+(-0.1933)Asn+(0.0490)Phe;0.738,0.760,0.750,0.749,0.739,0.768,0.763,0.755,(0.3569)+(0.0040)Gln+(-0.3138)Met+(0.0524)Ile;0.738,0.756,0.717,0.709,0.723,0.744,0.706,0.721,(1.3103)+(0.0177)Thr+(-0.3453)Met+(0.0533)Ile;0.737,0.756,0.747,0.737,0.746,0.760,0.766,0.752,(2.3078)+(-0.0199)Asn+(-0.2612)Met+(0.0511)Ile;0.737,0.757,0.750,0.767,0.761,0.718,0.703,0.737,(0.0077)+(0.0025)Gly+(-0.3154)Met+(0.0905)Phe;0.737,0.763,0.713,0.703,0.673,0.777,0.773,0.732,(1.5790)+(-0.0149)Lys+(0.1433)Ile+(-0.0805)Leu;0.737,0.754,0.768,0.782,0.777,0.721,0.747,0.757,(1.2362)+(-0.0369)Asn+(-0.2652)Met+(0.0849)Phe;0.736,0.757,0.738,0.728,0.737,0.752,0.757,0.743,(1.8799)+(0.0023)Pro+(-0.2903)Met+(0.0503)Ile;0.736,0.757,0.752,0.764,0.761,0.720,0.724,0.742,(0.2273)+(-0.3116)Met+(0.0129)Orn+(0.0820)Phe;0.735,0.762,0.753,0.782,0.729,0.825,0.677,0.753,(2.6428)+(0.0370)Ser+(-0.1453)Asn+(-0.0107)Val;0.734,0.754,0.735,0.725,0.734,0.757,0.750,0.741,(1.7322)+(-0.2876)Met+(0.0071)Orn+(0.0504)Ile;0.734,0.757,0.729,0.721,0.728,0.755,0.732,0.734,(1.5227)+(0.0022)Gly+(-0.2920)Met+(0.0545)Ile;0.734,0.759,0.725,0.759,0.705,0.784,0.637,0.721,(1.8544)+(0.0382)Ser+(-0.1364)Asn+(-0.0309)Tyr;0.732,0.756,0.674,0.657,0.664,0.754,0.685,0.690,(-0.6580)+(0.0427)Ser+(-0.1756)Asn+(0.0295)Ile;0.732,0.754,0.746,0.738,0.747,0.760,0.754

,0.750,(2.2765)+(-0.0085)Arg+(-0.2689)Met+(0.0528)Ile;0.731,0.753,0.725,0.730,0.697,0.783,0.725,0.734,(2.2252)+(-0.0321)Arg+(0.1596)Ile+(-0.0944)Leu;0.730,0.751,0.754,0.742,0.760,0.826,0.725,0.763,(2.8460)+(-0.0116)Ala+(-0.1225)Cit+(0.0535)Orn;0.729,0.754,0.764,0.782,0.774,0.723,0.727,0.751,(0.8766)+(-0.0094)Arg+(-0.2888)Met+(0.0877)Phe;0.729,0.751,0.764,0.784,0.771,0.720,0.728,0.751,(0.6223)+(-0.2897)Met+(-0.0090)Leu+(0.0957)Phe;0.729,0.752,0.701,0.700,0.649,0.763,0.768,0.720,(0.2540)+(-0.0070)Pro+(0.1559)Ile+(-0.0916)Leu;0.728,0.749,0.778,0.774,0.725,0.835,0.861,0.799,(2.7575)+(-0.0883)Asn+(-0.0105)Ala+(0.0457)Ile;0.727,0.749,0.717,0.716,0.666,0.767,0.792,0.735,(1.1557)+(-0.0150)Thr+(0.1545)Ile+(-0.0920)Leu;0.727,0.751,0.760,0.751,0.699,0.833,0.858,0.785,(2.0924)+(-0.0111)Ala+(-0.0196)Lys+(0.0576)Ile;0.727,0.751,0.749,0.776,0.746,0.704,0.719,0.736,(0.7541)+(-0.0268)Tyr+(-0.2652)Met+(0.0949)Phe;0.726,0.752,0.758,0.763,0.784,0.735,0.710,0.748,(1.4416)+(-0.0644)Cit+(-0.2735)Met+(0.0916)Phe;0.726,0.751,0.733,0.731,0.723,0.746,0.749,0.737,(2.1541)+(-0.0156)Tyr+(-0.2573)Met+(0.0542)Ile;0.725,0.754,0.782,0.791,0.756,0.816,0.787,0.787,(4.0489)+(-0.0363)Val+(-0.2236)Met+(0.0626)Leu;0.725,0.752,0.722,0.745,0.721,0.783,0.623,0.718,(1.2211)+(0.0406)Ser+(-0.1411)Asn+(-0.0154)Arg;0.725,0.751,0.747,0.764,0.779,0.783,0.606,0.733,(3.9391)+(0.0228)Thr+(-0.0713)Cit+(-0.2554)Met;0.724,0.753,0.751,0.744,0.789,0.795,0.656,0.746,(3.5164)+(-0.0968)Cit+(-0.2017)Met+(0.0460)Orn;0.724,0.749,0.745,0.729,0.780,0.787,0.688,0.746,(3.7326)+(-0.1110)Asn+(-0.1028)Cit+(0.0450)Orn;0.723,0.747,0.681,0.674,0.635,0.748,0.747,0.701,(0.5731)+(-0.0014)Gln+(0.1452)Ile+(-0.0899)Leu;0.723,0.748,0.772,0.785,0.744,0.806,0.767,0.776,(3.5498)+(-0.0079)Ala+(0.0140)Pro+(-0.1927)Met;0.723,0.746,0.671,0.666,0.620,0.730,0.751,0.692,(-1.1447)+(0.1442)Ile+(-0.0959)Leu+(0.0285)Phe;0.723,0.747,0.641,0.632,0.592,0.741,0.691,0.664,(-1.9553)+(0.0163)Ser+(0.

1425)Ile+(-0.0887)Leu;0.723,0.750,0.720,0.735,0.711,0.798,0.644,0.722,(1.3728)+(0.0403)Ser+(-0.1361)Asn+(-0.0091)Lys;0.720,0.746,0.715,0.728,0.703,0.777,0.661,0.717,(0.7730)+(0.0412)Ser+(-0.1516)Asn+(-0.0046)Thr;0.720,0.747,0.700,0.706,0.695,0.769,0.642,0.703,(0.4568)+(0.0394)Ser+(-0.1693)Asn+(0.0136)Orn;0.720,0.744,0.724,0.721,0.710,0.772,0.725,0.732,(1.0301)+(0.0475)Ser+(-0.1581)Asn+(-0.0059)Gly;0.719,0.743,0.756,0.781,0.768,0.765,0.654,0.742,(3.6825)+(-0.0587)Asn+(0.0207)Thr+(-0.2199)Met;0.719,0.744,0.696,0.690,0.644,0.748,0.780,0.715,(0.4305)+(-0.0026)Gly+(0.1447)Ile+(-0.0907)Leu;0.718,0.744,0.682,0.680,0.630,0.746,0.748,0.701,(-0.0598)+(-0.0014)Orn+(0.1448)Ile+(-0.0903)Leu;0.718,0.747,0.724,0.744,0.710,0.792,0.651,0.724,(1.2781)+(0.0386)Ser+(-0.1542)Asn+(-0.0057)Leu;0.716,0.739,0.692,0.699,0.684,0.757,0.641,0.695,(0.5591)+(0.0400)Ser+(-0.1649)Asn+(0.0029)Pro;0.715,0.737,0.759,0.787,0.749,0.803,0.676,0.754,(3.2559)+(-0.0103)Val+(-0.1926)Met+(0.0321)Orn;0.714,0.736,0.802,0.831,0.789,0.794,0.756,0.792,(2.0338)+(-0.0691)Asn+(0.0063)Gln+(-0.1839)Met;0.714,0.740,0.716,0.733,0.702,0.775,0.661,0.718,(0.2302)+(0.0382)Ser+(-0.1720)Asn+(0.0021)Gln;0.714,0.736,0.724,0.747,0.733,0.750,0.626,0.714,(2.4827)+(0.0158)Thr+(0.0071)Pro+(-0.2907)Met;0.713,0.742,0.766,0.799,0.756,0.811,0.669,0.759,(3.0994)+(0.0185)Thr+(-0.0043)Ala+(-0.2318)Met;0.713,0.739,0.785,0.809,0.764,0.755,0.784,0.778,(3.3010)+(-0.1273)Asn+(-0.0191)Val+(0.0755)Phe;0.712,0.742,0.759,0.799,0.760,0.807,0.614,0.745,(3.4295)+(0.0193)Thr+(-0.0077)Val+(-0.2413)Met;0.711,0.737,0.679,0.668,0.585,0.815,0.811,0.720,(-2.4641)+(0.0235)Ser+(-0.0143)Ala+(0.0473)Ile;0.710,0.734,0.734,0.745,0.719,0.830,0.668,0.740,(1.1144)+(0.0249)Ser+(-0.0091)Ala+(-0.0852)Cit;0.710,0.732,0.730,0.744,0.729,0.758,0.676,0.727,(2.4003)+(0.0067)Pro+(-0.2523)Met+(0.0184)Orn;0.709,0.734,0.768,0.789,0.746,0.810,0.727,0.768,(2.8987)+(-0.0050)Ala+(-0.1855)Met+(0.0261)Orn;0.709,0.734,0.

697,0.714,0.715,0.757,0.571,0.689,(2.6812)+(-0.1070)Cit+(-0.0592)Tyr+(0.0475)Orn;0.709,0.732,0.756,0.771,0.757,0.751,0.719,0.749,(3.6758)+(-0.0395)Asn+(0.0076)Pro+(-0.1974)Met;0.709,0.733,0.758,0.771,0.762,0.773,0.706,0.753,(3.3754)+(-0.0499)Asn+(-0.1796)Met+(0.0244)Orn;0.709,0.732,0.753,0.754,0.696,0.815,0.827,0.773,(1.2719)+(-0.0122)Ala+(-0.0207)Arg+(0.0470)Ile;0.709,0.734,0.770,0.794,0.754,0.802,0.716,0.767,(4.6800)+(-0.1161)Asn+(-0.0166)Val+(0.0369)Orn;0.709,0.735,0.790,0.801,0.755,0.804,0.825,0.796,(2.4449)+(-0.1032)Asn+(-0.0085)Ala+(0.0518)Phe;0.709,0.734,0.752,0.790,0.749,0.772,0.640,0.738,(1.3967)+(0.0035)Gln+(0.0152)Thr+(-0.2857)Met;0.709,0.735,0.752,0.761,0.771,0.766,0.680,0.745,(4.0694)+(-0.0632)Cit+(0.0086)Pro+(-0.2096)Met;0.707,0.731,0.729,0.754,0.740,0.765,0.615,0.719,(2.2980)+(0.0140)Thr+(-0.2706)Met+(0.0156)Orn;0.706,0.736,0.677,0.708,0.681,0.756,0.530,0.669,(0.9989)+(0.0246)Ser+(-0.0785)Cit+(-0.0478)Tyr;0.705,0.732,0.801,0.813,0.789,0.829,0.772,0.801,(5.3131)+(-0.0674)Asn+(-0.0063)Ala+(-0.0676)Cit;0.705,0.732,0.782,0.807,0.787,0.792,0.696,0.770,(2.1230)+(0.0061)Gln+(-0.0732)Cit+(-0.2136)Met;0.705,0.730,0.741,0.771,0.750,0.762,0.630,0.728,(2.7756)+(-0.0008)Gly+(0.0183)Thr+(-0.2684)Met;0.705,0.730,0.801,0.837,0.764,0.827,0.761,0.797,(1.8230)+(0.0045)Gln+(-0.0041)Ala+(-0.2001)Met;0.705,0.727,0.748,0.765,0.751,0.782,0.673,0.743,(2.9347)+(-0.2023)Met+(0.0268)Orn+(-0.0070)Lys;0.705,0.732,0.596,0.620,0.546,0.685,0.573,0.606,(-1.7471)+(0.0230)Ser+(-0.0738)Tyr+(0.0362)Ile;0.704,0.729,0.753,0.779,0.739,0.758,0.707,0.746,(1.3604)+(0.0041)Gln+(0.0074)Pro+(-0.2675)Met;0.704,0.732,0.736,0.772,0.755,0.765,0.579,0.718,(3.2808)+(0.0223)Thr+(-0.0164)Arg+(-0.2560)Met;0.704,0.729,0.736,0.781,0.708,0.684,0.716,0.722,(2.5464)+(-0.1004)Asn+(-0.0629)Tyr+(0.0685)Phe;0.704,0.733,0.741,0.776,0.699,0.849,0.660,0.746,(0.1779)+(0.0266)Ser+(-0.0082)Ala+(-0.0243)Arg;0.704,0.729,0.755,0.784,0.740,0.773,0.695,0.748,

(3.8632)+(0.0111)Pro+(-0.0102)Val+(-0.2081)Met;0.704,0.727,0.746,0.765,0.745,0.751,0.696,0.739,(3.1772)+(0.0082)Pro+(-0.2263)Met+(-0.0031)Lys;0.703,0.730,0.738,0.770,0.748,0.772,0.611,0.725,(3.0415)+(0.0190)Thr+(-0.2511)Met+(-0.0051)Lys;0.703,0.733,0.612,0.568,0.614,0.739,0.631,0.638,(-1.9031)+(0.0330)Ser+(-0.0328)Lys+(0.0445)Ile;0.703,0.730,0.733,0.760,0.744,0.753,0.623,0.720,(2.4849)+(0.0180)Thr+(-0.2794)Met+(0.0037)Leu;0.703,0.728,0.773,0.787,0.730,0.793,0.810,0.780,(5.3423)+(-0.1196)Asn+(-0.0393)Val+(0.0550)Leu;0.703,0.732,0.737,0.719,0.750,0.748,0.747,0.741,(3.2433)+(-0.1014)Asn+(-0.0751)Cit+(0.0287)Ile;0.702,0.732,0.718,0.689,0.777,0.813,0.601,0.720,(2.9594)+(-0.1128)Cit+(0.0544)Orn+(-0.0225)Lys;0.702,0.726,0.738,0.759,0.739,0.745,0.678,0.730,(2.7991)+(0.0008)Gly+(0.0081)Pro+(-0.2412)Met;0.702,0.731,0.734,0.773,0.739,0.759,0.602,0.718,(2.8884)+(0.0185)Thr+(-0.0121)Tyr+(-0.2498)Met;0.702,0.735,0.796,0.812,0.797,0.819,0.733,0.790,(4.8035)+(-0.0046)Ala+(-0.0642)Cit+(-0.1280)Met;0.702,0.728,0.720,0.716,0.630,0.805,0.856,0.752,(0.0336)+(-0.0148)Ala+(0.0055)Pro+(0.0392)Ile;0.702,0.726,0.720,0.742,0.633,0.786,0.796,0.739,(1.5289)+(-0.0105)Ala+(-0.0464)Tyr+(0.0519)Ile;0.702,0.729,0.747,0.765,0.759,0.776,0.657,0.739,(2.9766)+(-0.0132)Arg+(-0.2080)Met+(0.0262)Orn;0.701,0.726,0.758,0.787,0.746,0.782,0.690,0.751,(1.3109)+(0.0034)Gln+(-0.2490)Met+(0.0176)Orn;0.701,0.724,0.760,0.760,0.741,0.818,0.756,0.769,(3.2929)+(-0.0124)Ala+(-0.0844)Cit+(0.0123)Pro;0.701,0.724,0.777,0.787,0.736,0.820,0.807,0.787,(3.8514)+(-0.0890)Asn+(-0.0097)Ala+(0.0106)Pro;0.701,0.727,0.719,0.787,0.665,0.699,0.666,0.704,(0.9960)+(-0.0670)Tyr+(-0.0154)Val+(0.0803)Phe;0.700,0.727,0.775,0.790,0.793,0.775,0.698,0.764,(4.9949)+(-0.0392)Asn+(-0.0594)Cit+(-0.1347)Met;0.700,0.727,0.763,0.769,0.740,0.804,0.766,0.770,(1.6184)+(-0.0109)Al

a+(-0.0852)Cit+(0.0489)Phe;0.700,0.722,0.771,0.797,0.770,0.771,0.703,

0.760,(3.8178)+(-0.0463)Asn+(0.0014)Gly+(-0.1606)Met;0.700,0.725,0.798,0.822,0.780,0.809,0.762,0.793,(4.3442)+(-0.0428)Asn+(-0.0039)Ala+(-0.1241)Met;0.699,0.728,0.737,0.764,0.728,0.740,0.680,0.728,(3.1978)+(0.0089)Pro+(-0.0158)Tyr+(-0.2140)Met;0.699,0.728,0.748,0.769,0.751,0.753,0.685,0.739,(3.3247)+(-0.0092)Arg+(0.0083)Pro+(-0.2236)Met;0.699,0.729,0.793,0.837,0.769,0.810,0.714,0.783,(2.0695)+(0.0046)Gln+(-0.0069)Val+(-0.2098)Met;0.699,0.726,0.756,0.777,0.779,0.780,0.637,0.743,(3.9881)+(0.0026)Gly+(-0.0659)Cit+(-0.1770)Met;0.698,0.720,0.743,0.762,0.744,0.767,0.674,0.737,(2.5228)+(-0.0002)Gly+(-0.2274)Met+(0.0224)Orn;0.698,0.724,0.743,0.762,0.741,0.746,0.692,0.735,(2.9703)+(0.0082)Pro+(-0.2366)Met+(-0.0011)Leu;0.697,0.724,0.745,0.741,0.663,0.817,0.873,0.773,(0.5464)+(-0.0075)Thr+(-0.0128)Ala+(0.0466)Ile;0.697,0.722,0.783,0.817,0.767,0.795,0.715,0.773,(1.6816)+(0.0048)Gln+(-0.2216)Met+(-0.0045)Lys;0.697,0.730,0.678,0.693,0.665,0.709,0.644,0.678,(2.1992)+(-0.0781)Cit+(-0.0618)Tyr+(0.0398)Ile;0.697,0.722,0.743,0.763,0.744,0.768,0.671,0.736,(2.5402)+(-0.2249)Met+(0.0228)Orn+(-0.0012)Leu;0.697,0.722,0.732,0.727,0.644,0.817,0.864,0.763,(0.3244)+(-0.0005)Gln+(-0.0134)Ala+(0.0445)Ile;0.696,0.725,0.732,0.729,0.643,0.818,0.864,0.763,(-0.2114)+(-0.0139)Ala+(0.0420)Ile+(0.0088)Phe;0.696,0.718,0.775,0.799,0.775,0.769,0.719,0.766,(4.0295)+(-0.0427)Asn+(-0.1579)Met+(-0.0007)Lys;0.696,0.721,0.782,0.794,0.749,0.827,0.786,0.789,(3.5468)+(-0.0971)Asn+(-0.0075)Ala+(0.0246)Orn;0.696,0.722,0.783,0.823,0.771,0.791,0.694,0.770,(1.6766)+(0.0054)Gln+(-0.0142)Arg+(-0.2204)Met;0.696,0.723,0.787,0.816,0.765,0.812,0.737,0.783,(3.4744)+(0.0005)Gly+(-0.0040)Ala+(-0.1671)Met;0.696,0.722,0.791,0.818,0.769,0.816,0.744,0.787,(3.6265)+(-0.0040)Ala+(-0.1620)Met+(-0.0010)Lys;0.695,0.723,0.795,0.830,0.770,0.824,0.735,0.790,(3.9431)+(-0.0031)Ala+(-0.0048)Val+(-0.1526)Met;0.695,0.721,0.782,0.817,0.764,0.783,0.724,0.772,(1.4961)+(-0.0009)Gly+

(0.0046)Gln+(-0.2380)Met;0.695,0.721,0.816,0.843,0.770,0.843,0.820,0.819,(2.5124)+(-0.1142)Asn+(0.0050)Gln+(-0.0067)Ala;0.695,0.721,0.685,0.682,0.714,0.795,0.556,0.687,(1.0121)+(0.0298)Ser+(-0.0794)Cit+(-0.0192)Lys;0.695,0.720,0.760,0.772,0.780,0.767,0.678,0.750,(4.0944)+(-0.0627)Cit+(-0.1866)Met+(0.0050)Leu;0.695,0.721,0.730,0.727,0.640,0.817,0.862,0.762,(0.0306)+(-0.0136)Ala+(0.0020)Orn+(0.0433)Ile;0.695,0.727,0.750,0.749,0.769,0.724,0.730,0.743,(2.8641)+(-0.1101)Asn+(-0.0727)Cit+(0.0411)Phe;0.695,0.719,0.774,0.795,0.774,0.766,0.722,0.764,(3.9071)+(-0.0426)Asn+(-0.1649)Met+(0.0013)Leu;0.694,0.724,0.814,0.854,0.777,0.826,0.777,0.809,(3.3276)+(-0.1300)Asn+(0.0057)Gln+(-0.0132)Val;0.694,0.722,0.735,0.731,0.648,0.817,0.867,0.766,(0.1922)+(-0.0006)Gly+(-0.0135)Ala+(0.0439)Ile;0.694,0.720,0.712,0.740,0.668,0.708,0.729,0.711,(3.2246)+(-0.0883)Asn+(-0.0521)Tyr+(0.0357)Ile;0.693,0.723,0.784,0.803,0.780,0.780,0.746,0.777,(2.3580)+(-0.1318)Asn+(0.0071)Gln+(-0.0812)Cit;0.693,0.725,0.604,0.659,0.557,0.641,0.526,0.596,(-2.3653)+(0.0237)Ser+(-0.0836)Tyr+(0.0567)Phe;0.693,0.721,0.735,0.763,0.729,0.759,0.656,0.726,(2.7186)+(-0.0146)Tyr+(-0.2029)Met+(0.0242)Orn;0.693,0.718,0.776,0.800,0.779,0.770,0.713,0.766,(4.1345)+(-0.0399)Asn+(-0.0050)Arg+(-0.1545)Met;0.693,0.721,0.774,0.809,0.757,0.776,0.712,0.764,(1.3401)+(0.0044)Gln+(-0.2452)Met+(0.0024)Leu;0.693,0.719,0.793,0.825,0.779,0.802,0.729,0.784,(4.9530)+(-0.0537)Asn+(-0.0078)Val+(-0.1146)Met;0.693,0.724,0.784,0.806,0.764,0.806,0.755,0.783,(3.2879)+(-0.0046)Ala+(-0.1795)Met+(0.0070)Leu;0.693,0.720,0.766,0.782,0.785,0.776,0.676,0.755,(4.3747)+(-0.0612)Cit+(-0.1690)Met+(-0.0010)Lys;0.692,0.724,0.767,0.796,0.767,0.766,0.694,0.756,(5.2257)+(-0.0737)Asn+(-0.0616)Cit+(-0.0299)Tyr;0.692,0.718,0.772,0.801,0.767,0.762,0.712,0.760,(4.2145)+(-0.0452)Asn+(-0.0107)Tyr+(-0.1389)Met;0.691,0.728,0.732,0.758,0.679,0.859,0.680,0.744,(0.4512)+(0.0274)Ser+(-0.0071)Ala+(-0.0153)Lys;0.69

1,0.717,0.734,0.787,0.658,0.753,0.738,0.734,(0.8325)+(-0.0083)Ala+(-0.0578)Tyr+(0.0647)Phe;0.691,0.723,0.776,0.797,0.789,0.792,0.682,0.765,(4.6715)+(-0.0572)Cit+(-0.0044)Val+(-0.1559)Met;0.691,0.720,0.774,0.817,0.752,0.778,0.705,0.763,(1.5803)+(0.0045)Gln+(-0.0077)Tyr+(-0.2246)Met;0.691,0.720,0.741,0.761,0.755,0.759,0.643,0.730,(4.0158)+(-0.0997)Asn+(0.0041)Gly+(-0.0739)Cit;0.691,0.720,0.794,0.824,0.777,0.815,0.733,0.787,(3.8364)+(-0.0039)Ala+(-0.0068)Arg+(-0.1543)Met;0.690,0.721,0.686,0.720,0.637,0.733,0.668,0.689,(0.3358)+(0.0362)Ser+(-0.0104)Gly+(-0.0620)Tyr;0.690,0.715,0.709,0.711,0.732,0.790,0.601,0.708,(1.9860)+(-0.1027)Cit+(-0.0155)Val+(0.0491)Orn;0.690,0.721,0.764,0.779,0.783,0.770,0.678,0.753,(4.2287)+(-0.0635)Cit+(0.0025)Arg+(-0.1767)Met;0.690,0.719,0.777,0.804,0.759,0.818,0.713,0.774,(4.1831)+(-0.0068)Ala+(-0.0720)Cit+(-0.0230)Tyr;0.690,0.725,0.672,0.728,0.664,0.767,0.476,0.659,(0.4665)+(0.0269)Ser+(-0.0255)Arg+(-0.0457)Tyr;0.689,0.722,0.788,0.817,0.765,0.810,0.741,0.783,(3.5905)+(-0.0040)Ala+(-0.0023)Tyr+(-0.1621)Met;0.688,0.718,0.705,0.751,0.673,0.698,0.657,0.695,(1.4875)+(-0.0652)Tyr+(-0.0158)Lys+(0.0658)Phe;0.688,0.714,0.763,0.792,0.762,0.770,0.687,0.753,(3.2655)+(0.0005)Gly+(-0.1956)Met+(-0.0022)Lys;0.688,0.720,0.765,0.783,0.783,0.773,0.672,0.753,(4.3828)+(-0.0611)Cit+(-0.0047)Tyr+(-0.1648)Met;0.688,0.715,0.810,0.842,0.774,0.844,0.778,0.809,(5.0618)+(-0.0850)Asn+(-0.0039)Ala+(-0.0089)Val;0.688,0.717,0.776,0.813,0.764,0.789,0.694,0.765,(3.7789)+(0.0002)Gly+(-0.0065)Val+(-0.1753)Met;0.687,0.714,0.756,0.781,0.755,0.759,0.687,0.746,(2.9155)+(0.0007)Gly+(-0.2150)Met+(0.0033)Leu;0.687,0.711,0.779,0.797,0.756,0.825,0.748,0.781,(2.1936)+(0.0031)Gln+(-0.0093)Ala+(-0.0855)Cit;0.686,0.715,0.762,0.784,0.761,0.767,0.699,0.753,(3.2479)+(-0.2017)Met+(-0.0038)Lys+(0.0050)Leu;0.686,0.715,0.726,0.763,0.705,0.729,0.667,0.716,(3.8237)+(-0.0965)Asn+(-0.0456)Tyr+(0.0270)Orn;0.686,0.717,0.787,0.809,0.753,0

.827,0.772,0.790,(3.9179)+(-0.1048)Asn+(0.0102)Thr+(-0.0071)Ala;0.686,0.715,0.790,0.828,0.746,0.812,0.764,0.787,(4.6033)+(-0.0747)Asn+(-0.0050)Ala+(-0.0236)Tyr;0.686,0.712,0.763,0.793,0.764,0.769,0.673,0.750,(3.4071)+(0.0008)Gly+(-0.0081)Arg+(-0.1909)Met;0.685,0.710,0.766,0.784,0.754,0.822,0.707,0.767,(3.2394)+(0.0017)Gly+(-0.0086)Ala+(-0.0810)Cit;0.685,0.713,0.767,0.796,0.768,0.771,0.684,0.755,(3.5609)+(-0.0075)Arg+(-0.1869)Met+(-0.0008)Lys;0.685,0.716,0.775,0.813,0.762,0.786,0.696,0.764,(3.7237)+(-0.0069)Val+(-0.1803)Met+(0.0017)Lys;0.685,0.713,0.780,0.806,0.776,0.794,0.713,0.772,(5.6126)+(-0.0859)Asn+(-0.0552)Cit+(-0.0093)Val;0.684,0.715,0.763,0.789,0.766,0.762,0.687,0.751,(3.3782)+(-0.0078)Arg+(-0.1982)Met+(0.0030)Leu;0.683,0.717,0.776,0.815,0.763,0.788,0.695,0.765,(3.8382)+(-0.0020)Tyr+(-0.0064)Val+(-0.1715)Met;0.683,0.713,0.774,0.826,0.737,0.759,0.727,0.762,(2.6567)+(-0.1160)Asn+(0.0055)Gln+(-0.0404)Tyr;0.683,0.713,0.770,0.806,0.754,0.790,0.697,0.762,(4.9807)+(-0.1229)Asn+(0.0129)Thr+(-0.0140)Val;0.683,0.711,0.784,0.829,0.753,0.799,0.721,0.775,(5.2932)+(-0.0855)Asn+(-0.0208)Tyr+(-0.0097)Val;0.683,0.714,0.788,0.802,0.779,0.839,0.734,0.789,(4.2447)+(-0.0074)Ala+(-0.0738)Cit+(-0.0069)Lys;0.683,0.708,0.766,0.780,0.754,0.817,0.719,0.768,(3.2644)+(0.0044)Thr+(-0.0091)Ala+(-0.0812)Cit;0.683,0.711,0.748,0.752,0.762,0.748,0.706,0.742,(4.1503)+(-0.0959)Asn+(-0.0691)Cit+(0.0029)Pro;0.683,0.717,0.711,0.762,0.636,0.836,0.647,0.720,(0.3637)+(0.0223)Ser+(-0.0070)Ala+(-0.0355)Tyr;0.682,0.712,0.758,0.791,0.752,0.758,0.681,0.746,(3.2465)+(0.0003)Gly+(-0.0070)Tyr+(-0.1921)Met;0.682,0.715,0.741,0.749,0.762,0.748,0.670,0.732,(4.2078)+(-0.1131)Asn+(0.0102)Thr+(-0.0722)Cit;0.682,0.708,0.771,0.780,0.756,0.816,0.741,0.773,(3.3435)+(-0.0090)Ala+(-0.0795)Cit+(0.0030)Leu;0.682,0.713,0.683,0.700,0.646,0.721,0.691,0.689,(2.3941)+(-0.0530)Tyr+(-0.0191)Lys+(0.0466)Ile;0.682,0.711,0.762,0.794,0.757,0.766,0.688,0.751,(3.4544)+

(-0.0068)Tyr+(-0.1828)Met+(-0.0020)Lys;0.682,0.710,0.797,0.822,0.759,0.828,0.785,0.799,(3.8919)+(-0.0879)Asn+(0.0012)Gly+(-0.0064)Ala;0.682,0.711,0.735,0.720,0.726,0.756,0.778,0.745,(2.9314)+(-0.0856)Asn+(-0.0161)Lys+(0.0340)Ile;0.682,0.714,0.694,0.712,0.608,0.811,0.741,0.718,(-2.3006)+(0.0224)Ser+(-0.0118)Ala+(0.0340)Phe;0.681,0.708,0.778,0.791,0.766,0.823,0.733,0.778,(3.5964)+(-0.0084)Ala+(-0.0752)Cit+(-0.0030)Arg;0.681,0.707,0.694,0.659,0.717,0.761,0.692,0.707,(2.4775)+(-0.0814)Cit+(-0.0233)Lys+(0.0444)Ile;0.680,0.711,0.697,0.773,0.653,0.660,0.617,0.676,(0.5611)+(-0.0730)Tyr+(-0.0189)Leu+(0.0764)Phe;0.680,0.711,0.698,0.734,0.695,0.718,0.592,0.685,(3.1112)+(-0.0727)Cit+(0.0059)Pro+(-0.0535)Tyr;0.680,0.713,0.764,0.797,0.762,0.764,0.677,0.750,(3.6363)+(-0.0078)Arg+(-0.0069)Tyr+(-0.1771)Met;0.680,0.706,0.780,0.799,0.763,0.827,0.729,0.780,(3.7935)+(-0.0075)Ala+(-0.0727)Cit+(-0.0040)Val;0.680,0.712,0.709,0.770,0.670,0.766,0.585,0.698,(2.3261)+(-0.0462)Tyr+(-0.0132)Val+(0.0294)Orn;0.680,0.712,0.687,0.730,0.675,0.675,0.607,0.671,(1.4091)+(-0.0758)Cit+(-0.0711)Tyr+(0.0632)Phe;0.680,0.707,0.765,0.796,0.739,0.776,0.730,0.760,(4.9611)+(-0.1058)Asn+(0.0081)Pro+(-0.0155)Val;0.680,0.710,0.755,0.785,0.751,0.751,0.687,0.743,(3.1642)+(-0.0082)Tyr+(-0.1987)Met+(0.0034)Leu;0.679,0.708,0.707,0.752,0.696,0.815,0.531,0.699,(0.6244)+(0.0249)Ser+(-0.0278)Arg+(-0.0126)Val;0.679,0.714,0.779,0.819,0.771,0.790,0.685,0.766,(4.1123)+(-0.0072)Arg+(-0.0064)Val+(-0.1618)Met;0.679,0.710,0.729,0.769,0.701,0.716,0.690,0.719,(4.1127)+(-0.0887)Asn+(0.0061)Pro+(-0.0449)Tyr;0.678,0.712,0.686,0.678,0.668,0.762,0.690,0.699,(-0.0670)+(0.0404)Ser+(-0.0088)Gly+(-0.0230)Lys;0.678,0.709,0.804,0.826,0.770,0.837,0.795,0.807,(4.2986)+(-0.0769)Asn+(-0.0060)Ala+(-0.0041)Lys;0.677,0.707,0.766,0.782,0.777,0.769,0.700,0.757,(4.7394)+(-0.0877)Asn+(-0.0650)Cit+(-0.0060)Leu;0.677,0.710,0.766,0.776,0.780,0.775,0.704,0.759,(4.8155)+(-0.0775)Asn+(-0.0656)Ci

t+(-0.0063)Lys;0.677,0.704,0.727,0.772,0.650,0.788,0.722,0.733,(2.579
9)+(-0.0100)Ala+(0.0124)Pro+(-0.0425)Tyr;0.677,0.708,0.727,0.734,0.65
3,0.833,0.786,0.752,(-0.4582)+(0.0313)Ser+(-0.0074)Gly+(-0.0098)Ala;0
.676,0.711,0.729,0.777,0.711,0.725,0.641,0.714,(4.2199)+(-0.1080)Asn+
(0.0132)Thr+(-0.0445)Tyr;0.676,0.703,0.722,0.770,0.711,0.739,0.606,0.
707,(2.1176)+(0.0030)Gln+(-0.0782)Cit+(-0.0497)Tyr;0.676,0.711,0.805,
0.830,0.773,0.826,0.788,0.804,(4.2511)+(-0.0760)Asn+(-0.0061)Ala+(-0.
0079)Arg;0.676,0.707,0.802,0.
825,0.765,0.830,0.797,0.804,(4.1313)+(-0.0846)Asn+(-0.0062)Ala+(-0.00
17)Leu;0.676,0.710,0.776,0.790,0.734,0.820,0.795,0.785,(1.3332)+(-0.0
091)Ala+(-0.0150)Lys+(0.0464)Phe;0.675,0.712,0.729,0.755,0.647,0.850,
0.745,0.749,(-0.6360)+(0.0289)Ser+(-0.0137)Thr+(-0.0082)Ala;0.675,0.6
99,0.667,0.664,0.680,0.740,0.595,0.670,(-0.6502)+(0.0316)Ser+(-0.0176
)Thr+(-0.0815)Cit;0.675,0.709,0.757,0.766,0.770,0.754,0.707,0.749,(4.
3427)+(-0.0921)Asn+(-0.0678)Cit+(-0.0001)Arg;0.674,0.715,0.667,0.713,
0.646,0.770,0.516,0.661,(0.6099)+(0.0268)Ser+(-0.0375)Tyr+(-0.0156)Ly
s;0.674,0.707,0.758,0.773,0.721,0.829,0.745,0.767,(2.3528)+(-0.0082)A
la+(0.0271)Orn+(-0.0155)Lys;0.674,0.711,0.675,0.696,0.685,0.785,0.521
,0.672,(-0.0125)+(0.0307)Ser+(-0.0212)Arg+(-0.0172)Lys;0.673,0.703,0.
749,0.796,0.722,0.741,0.686,0.736,(4.1822)+(-0.0869)Asn+(0.0005)Gly+(
-0.0359)Tyr;0.673,0.702,0.783,0.821,0.758,0.796,0.722,0.774,(4.8438)+
(-0.0993)Asn+(0.0010)Gly+(-0.0120)Val;0.673,0.706,0.762,0.809,0.734,0
.757,0.698,0.749,(4.4799)+(-0.0838)Asn+(-0.0330)Tyr+(-0.0045)Leu;0.67
2,0.703,0.759,0.781,0.727,0.823,0.725,0.764,(1.9774)+(-0.0092)Ala+(-0
.0226)Arg+(0.0240)Orn;0.672,0.706,0.679,0.692,0.595,0.814,0.726,0.707
,(-1.1331)+(0.0214)Ser+(-0.0129)Ala+(0.0096)Pro;0.672,0.705,0.756,0.7
59,0.756,0.739,0.760,0.753,(2.5668)+(-0.1010)Asn+(-0.0124)Lys+(0.0408
)Phe;0.671,0.701,0.755,0.773,0.702,0.821,0.771,0.767,(2.6204)+(-0.010

6)Ala+(0.0106)Pro+(-0.0123)Lys;0.671,0.703,0.762,0.786,0.759,0.707,0.742,0.748,(2.4528)+(-0.1206)Asn+(-0.0205)Leu+(0.0570)Phe;0.671,0.704,0.673,0.738,0.628,0.765,0.526,0.664,(0.6891)+(0.0202)Ser+(-0.0421)Tyr+(-0.0094)Val;0.671,0.698,0.701,0.745,0.703,0.725,0.560,0.683,(3.1206)+(0.0047)Thr+(-0.0736)Cit+(-0.0492)Tyr;0.670,0.700,0.722,0.764,0.722,0.744,0.594,0.706,(3.4706)+(-0.0698)Cit+(-0.0422)Tyr+(-0.0033)Leu;0.670,0.703,0.672,0.668,0.677,0.734,0.626,0.676,(-1.1998)+(0.0359)Ser+(-0.0073)Gly+(-0.0333)Arg;0.670,0.702,0.757,0.798,0.734,0.753,0.697,0.746,(4.4701)+(-0.0780)Asn+(-0.0329)Tyr+(-0.0040)Lys;0.670,0.700,0.765,0.804,0.695,0.801,0.782,0.771,(0.6504)+(-0.0085)Ala+(-0.0136)Val+(0.0552)Phe;0.670,0.701,0.773,0.796,0.733,0.806,0.772,0.776,(0.9830)+(-0.0100)Ala+(-0.0207)Arg+(0.0413)Phe;0.670,0.704,0.758,0.803,0.738,0.748,0.690,0.745,(4.4809)+(-0.0762)Asn+(-0.0086)Arg+(-0.0342)Tyr;0.669,0.700,0.749,0.770,0.748,0.763,0.688,0.742,(3.4810)+(-0.1136)Asn+(0.0253)Orn+(-0.0150)Leu;0.669,0.697,0.757,0.780,0.706,0.818,0.754,0.765,(2.2570)+(-0.0113)Ala+(-0.0190)Arg+(0.0105)Pro;0.668,0.698,0.732,0.773,0.653,0.869,0.687,0.746,(0.2214)+(0.0209)Ser+(-0.0075)Ala+(-0.0085)Val;0.668,0.701,0.714,0.755,0.714,0.732,0.593,0.698,(3.2818)+(0.0001)Gly+(-0.0713)Cit+(-0.0447)Tyr;0.668,0.703,0.694,0.710,0.628,0.846,0.678,0.716,(-0.0649)+(0.0255)Ser+(-0.0025)Gln+(-0.0093)Ala;0.668,0.701,0.739,0.784,0.731,0.767,0.616,0.724,(3.9012)+(-0.0636)Cit+(-0.0350)Tyr+(-0.0070)Val;0.667,0.704,0.657,0.707,0.615,0.733,0.558,0.653,(-0.4991)+(0.0281)Ser+(-0.0121)Thr+(-0.0460)Tyr;0.667,0.702,0.615,0.661,0.594,0.703,0.475,0.608,(0.2513)+(0.0257)Ser+(-0.0025)Gln+(-0.0533)Tyr;0.667,0.698,0.788,0.826,0.767,0.800,0.722,0.779,(5.1565)+(-0.0882)Asn+(-0.0076)Arg+(-0.0116)Val;0.667,0.699,0.787,0.823,0.761,0.795,0.738,0.779,(4.9413)+(-0.0995)Asn+(-0.0124)Val+(0.0011)Lys;0.667,0.703,0.622,0.613,0.623,0.728,0.566,0.633,(-2.0771)+(0.0314)Ser+(-0.0282)Lys+(0.03

70)Phe;0.667,0.699,0.728,0.742,0.651,0.797,0.803,0.748,(0.0729)+(-0.0134)Ala+(0.0085)Pro+(0.0255)Phe;0.666,0.700,0.760,0.784,0.675,0.847,0.811,0.779,(2.2684)+(-0.0078)Ala+(-0.0291)Val+(0.0409)Leu;0.666,0.698,0.742,0.743,0.750,0.764,0.706,0.741,(3.3712)+(-0.0951)Asn+(0.0256)Orn+(-0.0128)Lys;0.665,0.700,0.593,0.649,0.554,0.672,0.468,0.586,(-0.6777)+(0.0217)Ser+(0.0049)Pro+(-0.0642)Tyr;0.665,0.699,0.717,0.770,0.653,0.759,0.677,0.715,(2.6975)+(-0.0414)Tyr+(-0.0275)Val+(0.0346)Leu;0.665,0.696,0.692,0.677,0.694,0.733,0.700,0.701,(1.6389)+(-0.0168)Arg+(-0.0217)Lys+(0.0367)Ile;0.664,0.690,0.662,0.697,0.631,0.683,0.618,0.657,(1.8322)+(-0.0214)Arg+(-0.0607)Tyr+(0.0365)Ile;0.664,0.696,0.728,0.777,0.664,0.800,0.680,0.730,(2.0851)+(-0.0076)Ala+(-0.0411)Tyr+(0.0233)Orn;0.664,0.701,0.739,0.772,0.745,0.771,0.617,0.726,(4.1175)+(-0.0671)Cit+(-0.0342)Tyr+(-0.0086)Lys;0.664,0.694,0.690,0.682,0.739,0.762,0.556,0.685,(1.3113)+(-0.1091)Cit+(0.0421)Orn+(-0.0173)Leu;0.664,0.699,0.724,0.765,0.728,0.741,0.596,0.707,(3.5317)+(-0.0650)Cit+(-0.0065)Arg+(-0.0423)Tyr;0.664,0.697,0.648,0.648,0.689,0.738,0.497,0.643,(-0.5081)+(0.0262)Ser+(-0.0723)Cit+(-0.0209)Arg;0.663,0.699,0.745,0.747,0.731,0.729,0.783,0.748,(0.9948)+(-0.1452)Asn+(0.0042)Gln+(0.0190)Ile;0.663,0.692,0.750,0.785,0.677,0.827,0.752,0.760,(2.3233)+(-0.0100)Ala+(0.0120)Pro+(-0.0114)Val;0.663,0.701,0.611,0.669,0.573,0.694,0.474,0.603,(-0.6651)+(0.0203)Ser+(-0.0614)Tyr+(0.0110)Orn;0.663,0.702,0.684,0.713,0.665,0.810,0.552,0.685,(0.3394)+(0.0258)Ser+(-0.0086)Val+(-0.0166)Lys;0.662,0.698,0.756,0.792,0.694,0.843,0.726,0.764,(1.8353)+(-0.0076)Ala+(-0.0121)Val+(0.0269)Orn;0.662,0.700,0.755,0.772,0.741,0.710,0.772,0.749,(0.7250)+(-0.1522)Asn+(0.0045)Gln+(0.0268)Phe;0.661,0.694,0.791,0.827,0.768,0.781,0.750,0.782,(2.3138)+(-0.1314)Asn+(0.0051)Gln+(-0.0117)Leu;0.661,0.693,0.722,0.735,0.723,0.695,0.705,0.714,(1.6206)+(-0.1332)Asn+(0.0025)Gly+(0.0324)Phe;0.661,0.696,0.774,0.835,0.

711,0.842,0.699,0.771,(3.1741)+(-0.0054)Ala+(-0.0274)Tyr+(-0.0067)Val;0.661,0.697,0.685,0.751,0.654,0.661,0.595,0.665,(1.1401)+(-0.0212)Arg+(-0.0698)Tyr+(0.0586)Phe;0.661,0.697,0.723,0.714,0.723,0.699,0.767,0.726,(1.7288)+(-0.1267)Asn+(0.0164)Ile+(0.0178)Phe;0.661,0.697,0.726,0.727,0.731,0.700,0.733,0.723,(1.8171)+(-0.1311)Asn+(0.0129)Orn+(0.0242)Phe;0.661,0.696,0.784,0.810,0.763,0.780,0.760,0.778,(2.2172)+(-0.1171)Asn+(0.0053)Gln+(-0.0105)Lys;0.661,0.700,0.695,0.718,0.616,0.836,0.700,0.718,(-1.0863)+(0.0206)Ser+(-0.0105)Ala+(0.0099)Orn;0.660,0.696,0.733,0.733,0.731,0.727,0.741,0.733,(2.5602)+(-0.1007)Asn+(-0.0152)Arg+(0.0236)Ile;0.660,0.694,0.717,0.709,0.714,0.713,0.746,0.721,(2.0377)+(-0.1242)Asn+(0.0102)Orn+(0.0175)Ile;0.660,0.687,0.617,0.665,0.558,0.611,0.616,0.612,(-0.1331)+(-0.0822)Tyr+(0.0257)Ile+(0.0356)Phe;0.660,0.699,0.774,0.827,0.726,0.826,0.698,0.769,(3.3584)+(-0.0060)Ala+(-0.0144)Arg+(-0.0289)Tyr;0.660,0.685,0.647,0.685,0.587,0.648,0.670,0.648,(1.2520)+(-0.0023)Gly+(-0.0705)Tyr+(0.0331)Ile;0.659,0.687,0.626,0.666,0.569,0.643,0.624,0.625,(0.7200)+(0.0002)Pro+(-0.0704)Tyr+(0.0334)Ile;0.659,0.699,0.638,0.705,0.599,0.720,0.480,0.626,(-0.1000)+(0.0213)Ser+(-0.0523)Tyr+(-0.0056)Leu;0.659,0.695,0.722,0.735,0.648,0.812,0.778,0.743,(0.7227)+(-0.0128)Ala+(0.0088)Pro+(0.0109)Orn;0.659,0.688,0.690,0.667,0.675,0.745,0.742,0.707,(1.2211)+(-0.0044)Pro+(-0.0262)Lys+(0.0427)Ile;0.658,0.692,0.704,0.703,0.698,0.707,0.717,0.707,(1.8408)+(-0.1259)Asn+(0.0025)Gly+(0.0229)Ile;0.658,0.693,0.691,0.731,0.678,0.741,0.579,0.682,(2.6442)+(-0.0469)Tyr+(0.0291)Orn+(-0.0161)Lys;0.658,0.690,0.696,0.764,0.645,0.722,0.603,0.683,(2.7831)+(0.0084)Pro+(-0.0475)Tyr+(-0.0126)Val;0.658,0.698,0.741,0.756,0.672,0.809,0.797,0.759,(-0.1640)+(-0.0116)Ala+(0.0115)Orn+(0.0280)Phe;0.658,0.686,0.625,0.664,0.570,0.643,0.626,0.626,(0.8474)+(-0.0003)Gln+(-0.0698)Tyr+(0.0339)Ile;0.658,0.689,0.678,0.647,0.669,0.733,0.739,0.697,(1.0995)+(-0.

0002)Gly+(-0.0265)Lys+(0.0363)Ile;0.658,0.692,0.680,0.653,0.668,0.731,0.741,0.698,(0.7503)+(0.0008)Gln+(-0.0273)Lys+(0.0361)Ile;0.657,0.689,0.743,0.759,0.669,0.816,0.801,0.761,(1.3334)+(-0.0013)Gly+(-0.0124)Ala+(0.0097)Pro;0.657,0.696,0.710,0.742,0.627,0.856,0.694,0.730,(-0.6636)+(0.0216)Ser+(-0.0094)Ala+(-0.0029)Leu;0.657,0.692,0.754,0.769,0.746,0.742,0.743,0.750,(1.4785)+(-0.1437)Asn+(0.0041)Gln+(0.0121)Orn;0.657,0.689,0.686,0.657,0.674,0.735,0.751,0.704,(1.1759)+(-0.0033)Thr+(-0.0252)Lys+(0.0370)Ile;0.657,0.685,0.618,0.657,0.564,0.645,0.606,0.618,(0.5682)+(-0.0718)Tyr+(0.0074)Orn+(0.0311)Ile;0.657,0.689,0.746,0.764,0.672,0.815,0.802,0.763,(1.5255)+(-0.0063)Thr+(-0.0119)Ala+(0.0104)Pro;0.657,0.693,0.600,0.562,0.659,0.712,0.494,0.607,(-1.8027)+(0.0200)Ser+(-0.1129)Cit+(0.0254)Orn;0.657,0.690,0.736,0.754,0.660,0.815,0.788,0.754,(1.1851)+(-0.0002)Gln+(-0.0124)Ala+(0.0097)Pro;0.657,0.694,0.674,0.650,0.743,0.737,0.552,0.670,(0.8893)+(-0.0969)Cit+(-0.0171)Arg+(0.0349)Orn;0.656,0.694,0.774,0.824,0.719,0.840,0.710,0.773,(3.3375)+(-0.0059)Ala+(-0.0269)Tyr+(-0.0077)Lys;0.656,0.684,0.637,0.675,0.581,0.649,0.645,0.637,(0.8708)+(-0.0031)Thr+(-0.0675)Tyr+(0.0342)Ile;0.656,0.686,0.720,0.732,0.721,0.725,0.682,0.715,(2.4533)+(-0.1245)Asn+(0.0014)Gly+(0.0166)Orn;0.656,0.685,0.681,0.735,0.672,0.721,0.528,0.664,(2.3664)+(-0.0236)Arg+(-0.0538)Tyr+(0.0257)Orn;0.656,0.695,0.681,0.723,0.693,0.786,0.469,0.668,(-0.3477)+(0.0254)Ser+(-0.0309)Arg+(-0.0124)Leu;0.656,0.694,0.746,0.760,0.753,0.709,0.722,0.736,(2.3290)+(-0.1089)Asn+(-0.0146)Arg+(0.0332)Phe;0.655,0.700,0.628,0.626,0.638,0.754,0.521,0.635,(-0.8227)+(0.0273)Ser+(0.0163)Orn+(-0.0256)Lys;0.655,0.691,0.665,0.630,0.664,0.726,0.712,0.683,(0.8771)+(0.0133)Orn+(-0.0283)Lys+(0.0330)Ile;0.655,0.690,0.675,0.644,0.666,0.729,0.736,0.694,(0.8061)+(-0.0273)Lys+(0.0344)Ile+(0.0090)Phe;0.655,0.689,0.716,0.709,0.711,0.703,0.751,0.719,(2.1464)+(-0.1254)Asn+(0.0029)Thr+(0.0204)Ile;0.

654,0.688,0.764,0.798,0.695,0.807,0.785,0.771,(0.2354)+(-0.0099)Ala+(-0.0119)Leu+(0.0455)Phe;0.654,0.688,0.744,0.771,0.673,0.820,0.766,0.758,(1.5477)+(-0.0115)Ala+(0.0106)Pro+(-0.0079)Leu;0.654,0.694,0.739,0.750,0.755,0.744,0.675,0.731,(3.0146)+(-0.1030)Asn+(-0.0164)Arg+(0.0212)Orn;0.654,0.690,0.792,0.833,0.741,0.838,0.756,0.792,(1.5232)+(0.0025)Gln+(-0.0085)Ala+(-0.0213)Arg;0.654,0.689,0.759,0.778,0.687,0.815,0.816,0.774,(0.2429)+(-0.0009)Gly+(-0.0111)Ala+(0.0322)Phe;0.653,0.688,0.726,0.763,0.722,0.800,0.584,0.717,(2.3817)+(-0.0266)Arg+(-0.0168)Val+(0.0320)Orn;0.653,0.684,0.629,0.697,0.581,0.609,0.561,0.612,(-0.0701)+(-0.0807)Tyr+(0.0119)Orn+(0.0481)Phe;0.653,0.685,0.628,0.697,0.574,0.602,0.578,0.613,(0.1053)+(0.0032)Pro+(-0.0814)Tyr+(0.0497)Phe;0.653,0.690,0.754,0.774,0.682,0.814,0.807,0.769,(0.1270)+(-0.0002)Gln+(-0.0112)Ala+(0.0330)Phe;0.653,0.689,0.761,0.783,0.689,0.811,0.819,0.776,(0.3087)+(-0.0049)Thr+(-0.0107)Ala+(0.0348)Phe;0.653,0.697,0.659,0.681,0.656,0.759,0.536,0.658,(-1.3617)+(0.0325)Ser+(-0.0144)Thr+(-0.0254)Arg;0.653,0.682,0.667,0.682,0.676,0.756,0.541,0.664,(0.4470)+(0.0218)Ser+(-0.0760)Cit+(-0.0106
)Val;0.652,0.686,0.727,0.733,0.727,0.722,0.712,0.723,(2.5793)+(-0.1218)Asn+(0.0004)Pro+(0.0166)Orn;0.652,0.690,0.588,0.573,0.609,0.703,0.498,0.596,(-2.7706)+(0.0280)Ser+(-0.0386)Arg+(0.0237)Ile;0.652,0.687,0.760,0.824,0.679,0.823,0.713,0.760,(1.9241)+(0.0017)Gln+(-0.0071)Ala+(-0.0363)Tyr;0.652,0.687,0.777,0.812,0.764,0.760,0.726,0.766,(1.8410)+(-0.1232)Asn+(0.0058)Gln+(-0.0181)Arg;0.652,0.688,0.723,0.718,0.713,0.714,0.765,0.728,(2.1977)+(-0.1179)Asn+(-0.0018)Pro+(0.0237)Ile;0.652,0.685,0.764,0.791,0.746,0.741,0.745,0.756,(1.5790)+(-0.1410)Asn+(0.0007)Gly+(0.0046)Gln;0.651,0.693,0.684,0.653,0.732,0.739,0.624,0.687,(0.8315)+(-0.0118)Thr+(-0.1077)Cit+(0.0391)Orn;0.651,0.693,0.629,0.630,0.631,0.752,0.530,0.636,(-0.7616)+(0.0289)Ser+(0.0024)Pro+(-0.0238)

Lys;0.651,0.679,0.633,0.610,0.661,0.696,0.591,0.639,(-1.1438)+(0.0291)Ser+(-0.0052)Gly+(-0.0870)Cit;0.651,0.690,0.793,0.828,0.752,0.851,0.744,0.794,(3.1003)+(-0.0070)Ala+(-0.0125)Arg+(-0.0076)Lys;0.650,0.681,0.695,0.710,0.650,0.759,0.702,0.705,(-0.0269)+(0.0302)Ser+(-0.0090)Gly+(-0.0151)Val;0.650,0.694,0.632,0.635,0.638,0.757,0.523,0.638,(-0.1023)+(0.0307)Ser+(-0.0017)Gln+(-0.0214)Lys;0.650,0.686,0.725,0.732,0.727,0.686,0.733,0.719,(1.9238)+(-0.1357)Asn+(0.0047)Thr+(0.0287)Phe;0.650,0.686,0.732,0.739,0.733,0.691,0.744,0.727,(1.9784)+(-0.1262)Asn+(0.0003)Pro+(0.0293)Phe;0.649,0.688,0.793,0.832,0.730,0.860,0.773,0.799,(1.9157)+(0.0022)Gln+(-0.0077)Ala+(-0.0128)Lys;0.649,0.684,0.764,0.787,0.746,0.736,0.758,0.757,(1.5901)+(-0.1407)Asn+(0.0047)Gln+(0.0007)Pro;0.649,0.696,0.657,0.667,0.643,0.771,0.581,0.665,(-0.6144)+(0.0325)Ser+(-0.0110)Thr+(-0.0182)Lys;0.649,0.681,0.760,0.794,0.749,0.754,0.700,0.749,(3.6586)+(-0.1046)Asn+(0.0012)Gly+(-0.0098)Leu;0.649,0.681,0.643,0.716,0.589,0.609,0.588,0.626,(0.1787)+(-0.0000)Gln+(-0.0781)Tyr+(0.0525)Phe;0.649,0.686,0.725,0.732,0.727,0.722,0.706,0.722,(2.5807)+(-0.1257)Asn+(0.0023)Thr+(0.0157)Orn;0.649,0.677,0.646,0.651,0.676,0.730,0.511,0.642,(-0.3162)+(0.0223)Ser+(-0.0859)Cit+(-0.0104)Leu;0.649,0.685,0.761,0.783,0.748,0.736,0.746,0.754,(1.6120)+(-0.1463)Asn+(0.0045)Gln+(0.0033)Thr;0.649,0.684,0.789,0.823,0.744,0.841,0.757,0.791,(2.5406)+(-0.0004)Gly+(-0.0080)Ala+(-0.0173)Arg;0.649,0.684,0.750,0.762,0.745,0.751,0.728,0.747,(3.6181)+(-0.0921)Asn+(0.0030)Pro+(-0.0094)Lys;0.649,0.682,0.768,0.822,0.701,0.812,0.733,0.767,(3.0178)+(-0.0019)Gly+(-0.0066)Ala+(-0.0346)Tyr;0.649,0.681,0.666,0.733,0.611,0.612,0.641,0.649,(0.7056)+(-0.0025)Gly+(-0.0786)Tyr+(0.0525)Phe;0.648,0.688,0.786,0.814,0.734,0.854,0.772,0.794,(2.6655)+(-0.0077)Ala+(-0.0118)Lys+(0.0030)Leu;0.648,0.685,0.755,0.785,0.751,0.751,0.690,0.744,(3.7436)+(-0.1170)Asn+(0.0075)Thr+(-0.0113)Leu;0.648,0.686,0.780,0.818,0

.737,0.842,0.728,0.781,(2.3527)+(0.0036)Thr+(-0.0084)Ala+(-0.0196)Arg;0.648,0.684,0.798,0.848,0.751,0.857,0.717,0.793,(3.3069)+(-0.0059)Ala+(-0.0157)Arg+(-0.0081)Val;0.648,0.680,0.750,0.778,0.739,0.738,0.706,0.740,(3.7264)+(-0.1055)Asn+(0.0044)Pro+(-0.0131)Leu;0.647,0.691,0.641,0.649,0.638,0.763,0.535,0.646,(-0.5867)+(0.0285)Ser+(-0.0225)Lys+(-0.0003)Leu;0.647,0.681,0.571,0.527,0.613,0.675,0.525,0.585,(-2.4726)+(0.0230)Ser+(-0.1000)Cit+(0.0226)Ile;0.647,0.686,0.731,0.746,0.687,0.798,0.734,0.741,(2.6236)+(-0.0298)Val+(-0.0142)Lys+(0.0398)Leu;0.647,0.686,0.748,0.809,0.677,0.817,0.685,0.747,(2.5029)+(0.0031)Thr+(-0.0070)Ala+(-0.0362)Tyr;0.647,0.689,0.613,0.624,0.638,0.711,0.464,0.609,(-2.4918)+(0.0275)Ser+(-0.0369)Arg+(0.0181)Phe;0.647,0.681,0.647,0.719,0.592,0.610,0.596,0.629,(0.2123)+(-0.0010)Thr+(-0.0772)Tyr+(0.0525)Phe;0.647,0.683,0.676,0.745,0.644,0.719,0.530,0.660,(1.7456)+(-0.0545)Tyr+(0.0227)Orn+(-0.0110)Leu;0.647,0.684,0.731,0.806,0.680,0.761,0.614,0.715,(2.2816)+(0.0013)Gln+(-0.0412)Tyr+(-0.0103)Val;0.646,0.682,0.681,0.742,0.659,0.697,0.556,0.663,(2.6606)+(-0.0199)Arg+(0.0059)Pro+(-0.0535)Tyr;0.646,0.685,0.793,0.822,0.740,0.853,0.780,0.799,(2.8889)+(-0.0009)Gly+(-0.0074)Ala+(-0.0107)Lys;0.646,0.683,0.750,0.817,0.700,0.758,0.670,0.736,(3.4045)+(-0.0027)Gly+(-0.0396)Tyr+(-0.0099)Val;0.646,0.685,0.764,0.785,0.761,0.765,0.713,0.756,(3.9062)+(-0.0829)Asn+(-0.0087)Arg+(-0.0068)Lys;0.645,0.684,0.792,0.831,0.747,0.848,0.739,0.791,(2.6329)+(-0.0076)Ala+(-0.0173)Arg+(-0.0027)Leu;0.645,0.685,0.750,0.817,0.722,0.793,0.598,0.732,(3.6600)+(-0.0161)Arg+(-0.0321)Tyr+(-0.0092)Val;0.645,0.687,0.795,0.839,0.739,0.871,0.740,0.797,(3.0632)+(-0.0062)Ala+(-0.0066)Val+(-0.0074)Lys;0.645,0.685,0.758,0.816,0.686,0.821,0.708,0.758,(2.6269)+(-0.0068)Ala+(-0.0338)Tyr+(0.0001)Leu;0.645,0.683,0.752,0.773,0.746,0.760,0.704,0.746,(3.5770)+(-0.0931)Asn+(0.0013)Gly+(-0.0083)Lys;0.645,0.684,0.623,0.640,0.649,0.735,0.447,0.618,(

-1.6470)+(0.0265)Ser+(-0.0346)Arg+(0.0009)Pro;0.645,0.685,0.782,0.816,0.728,0.855,0.749,0.787,(2.6443)+(0.0036)Thr+(-0.0076)Ala+(-0.0121)Lys;0.645,0.682,0.755,0.772,0.691,0.827,0.793,0.771,(1.2016)+(-0.0075)Thr+(-0.0097)Ala+(0.0206)Orn;0.644,0.677,0.753,0.768,0.687,0.832,0.793,0.770,(1.1321)+(-0.0018)Gly+(-0.0103)Ala+(0.0166)Orn;0.644,0.686,0.618,0.628,0.649,0.731,0.447,0.614,(-0.9345)+(0.0290)Ser+(-0.0020)Gln+(-0.0315)Arg;0.644,0.677,0.724,0.745,0.717,0.710,0.691,0.716,(2.7479)+(-0.1177)Asn+(0.0018)Gly+(0.0020)Pro;0.644,0.677,0.603,0.583,0.647,0.699,0.493,0.605,(-0.5312)+(0.0259)Ser+(-0.0023)Gln+(-0.0876)Cit;0.644,0.687,0.722,0.797,0.676,0.756,0.596,0.706,(2.7471)+(0.0021)Thr+(-0.0407)Tyr+(-0.0102)Val;0.644,0.682,0.746,0.775,0.748,0.745,0.664,0.733,(3.2769)+(-0.0985)Asn+(0.0019)Gly+(-0.0127)Arg;0.643,0.687,0.719,0.746,0.706,0.796,0.620,0.717,(2.1246)+(-0.0131)Val+(0.0301)Orn+(-0.0147)Lys;0.643,0.679,0.790,0.844,0.712,0.870,0.750,0.794,(1.9236)+(0.0011)Gln+(-0.0071)Ala+(-0.0091)Val;0.643,0.676,0.633,0.651,0.580,0.748,0.610,0.647,(-0.7525)+(0.0187)Ser+(-0.0322)Val+(0.0328)Leu;0.643,0.678,0.726,0.748,0.722,0.715,0.681,0.716,(2.8137)+(-0.1251)Asn+(0.0014)Gly+(0.0051)Thr;0.643,0.680,0.693,0.743,0.664,0.720,0.601,0.682,(2.8587)+(0.0057)Pro+(-0.0480)Tyr+(-0.0123)Lys;0.642,0.679,0.766,0.792,0.757,0.759,0.719,0.757,(4.0030)+(-0.0908)Asn+(-0.0056)Lys+(-0.0066)Leu;0.642,0.675,0.795,0.842,0.726,0.858,0.769,0.799,(2.6892)+(-0.0015)Gly+(-0.0068)Ala+(-0.0089)Val;0.642,0.681,0.743,0.762,0.675,0.834,0.767,0.759,(0.9937)+(-0.0004)Gln+(-0.0103)Ala+(0.0164)Orn;0.642,0.676,0.677,0.701,0.623,0.758,0.669,0.688,(0.6592)+(-0.0344)Val+(0.0218)Orn+(0.0318)Leu;0.642,0.682,0.727,0.783,0.710,0.748,0.598,0.710,(3.3389)+(-0.0133)Arg+(-0.0381)Tyr+(-0.0078)Lys;0.641,0.686,0.625,0.638,0.655,0.741,0.445,0.620,(-1.7250)+(0.0257)Ser+(-0.0355)Arg+(0.0065)Orn;0.641,0.674,0.617,0.568,0.676,0.688,0.572,0.626,(-0.5498)+(-0.1116)Cit+(0.0266)

Orn+(0.0142)Ile;0.641,0.672,0.593,0.573,0.632,0.667,0.513,0.596,(-2.2208)+(0.0233)Ser+(-0.0974)Cit+(0.0168)Phe;0.641,0.680,0.746,0.766,0.748,0.731,0.698,0.736,(3.3356)+(-0.0975)Asn+(-0.0131)Arg+(0.0025)Pro;0.641,0.673,0.612,0.599,0.649,0.696,0.505,0.612,(-1.2775)+(0.0227)Ser+(-0.0928)Cit+(-0.0003)Pro;0.641,0.676,0.653,0.625,0.713,0.719,0.557,0.653,(0.2902)+(-0.1121)Cit+(-0.0033)Pro+(0.0350)Orn;0.640,0.672,0.701,0.712,0.722,0.751,0.594,0.695,(1.9962)+(-0.0195)Arg+(0.0255)Orn+(-0.0181)Lys;0.640,0.667,0.704,0.715,0.694,0.754,0.659,0.705,(2.4618)+(-0.0642)Cit+(-0.0261)Val+(0.0287)Leu;0.640,0.678,0.741,0.758,0.739,0.753,0.693,0.736,(3.6877)+(-0.1041)Asn+(0.0093)Thr+(-0.0106)Lys;0.639,0.678,0.770,0.803,0.768,0.761,0.693,0.756,(4.1198)+(-0.0885)Asn+(-0.0110)Arg+(-0.0092)Leu;0.639,0.679,0.751,0.782,0.686,0.836,0.739,0.761,(1.1714)+(-0.0094)Ala+(0.0192)Orn+(-0.0076)Leu;0.639,0.678,0.716,0.789,0.687,0.736,0.569,0.695,(1.7627)+(0.0029)Gln+(-0.0230)Arg+(-0.0490)Tyr;0.638,0.675,0.736,0.747,0.753,0.790,0.636,0.731,(1.9404)+(0.0036)Gln+(-0.0815)Cit+(-0.0173)Lys;0.638,0.678,0.725,0.786,0.688,0.760,0.616,0.713,(2.1046)+(0.0025)Gln+(-0.0429)Tyr+(-0.0134)Lys;0.638,0.671,0.654,0.630,0.696,0.689,0.606,0.655,(0.6815)+(-0.0762)Cit+(-0.0162)Arg+(0.0238)Ile;0.638,0.670,0.630,0.598,0.694,0.698,0.534,0.631,(-0.1067)+(0.0008)Gly+(-0.1123)Cit+(0.0316)Orn;0.638,0.676,0.716,0.724,0.746,0.777,0.586,0.708,(2.9874)+(0.0017)Gly+(-0.0766)Cit+(-0.0144)Lys;0.637,0.676,0.743,0.762,0.754,0.790,0.634,0.735,(3.6206)+(-0.0661)Cit+(-0.0073)Val+(-0.0094)Lys;0.637,0.670,0.664,0.636,0.685,0.688,0.676,0.671,(0.5203)+(-0.0087)Thr+(-0.0861)Cit+(0.0243)Ile;0.637,0.675,0.706,0.698,0.737,0.739,0.640,0.704,(1.8805)+(-0.0786)Cit+(-0.0192)Lys+(0.0413)Phe;0.637,0.679,0.786,0.837,0.714,0.868,0.742,0.790,(2.3947)+(0.0002)Thr+(-0.0069)Ala+(-0.0089)Val;0.637,0.679,0.740,0.802,0.705,0.785,0.618,0.728,(3.3349)+(-0.0334)Tyr+(-0.0079)Val+(-0.0069)Lys;0.637,0.674,

0.718,0.717,0.747,0.765,0.624,0.713,(3.0730)+(-0.0746)Cit+(0.0026)Pro+(-0.0151)Lys;0.637,0.675,0.729,0.743,0.729,0.708,0.711,0.723,(2.8856)+(-0.1236)Asn+(0.0051)Thr+(0.0012)Pro;0.637,0.677,0.673,0.748,0.629,0.696,0.552,0.656,(2.1275)+(0.0066)Pro+(-0.0554)Tyr+(-0.0106)Leu;0.636,0.673,0.734,0.783,0.714,0.739,0.643,0.720,(1.2547)+(-0.0239)Arg+(-0.0179)Val+(0.0494)Phe;0.636,0.668,0.723,0.746,0.751,0.755,0.582,0.709,(2.5804)+(-0.0664)Cit+(-0.0121)Arg+(-0.0102)Leu;0.635,0.679,0.687,0.755,0.677,0.720,0.502,0.663,(2.6760)+(0.0075)Thr+(-0.0228)Arg+(-0.0510)Tyr;0.635,0.675,0.681,0.717,0.635,0.785,0.603,0.685,(-0.4725)+(0.0269)Ser+(-0.0153)Thr+(-0.0117)Val;0.635,0.674,0.638,0.600,0.705,0.706,0.550,0.640,(0.4236)+(-0.0010)Gln+(-0.1102)Cit+(0.0336)Orn;0.635,0.671,0.727,0.760,0.696,0.748,0.690,0.724,(1.1048)+(-0.0147)Val+(-0.0140)Lys+(0.0489)Phe;0.635,0.672,0.620,0.654,0.581,0.693,0.562,0.622,(-2.1273)+(0.0193)Ser+(-0.0196)Val+(0.0411)Phe;0.635,0.676,0.565,0.522,0.534,0.666,0.668,0.598,(-3.9146)+(0.0361)Ser+(-0.0293)Thr+(0.0273)Ile;0.634,0.670,0.623,0.691,0.576,0.657,0.518,0.610,(1.1391)+(0.0037)Pro+(-0.0659)Tyr+(0.0154)Orn;0.634,0.670,0.673,0.738,0.617,0.662,0.623,0.660,(2.1797)+(-0.0029)Gly+(0.0050)Pro+(-0.0625)Tyr;0.634,0.667,0.699,0.717,0.702,0.719,0.632,0.692,(1.0527)+(-0.0712)Cit+(-0.0157)Val+(0.0466)Phe;0.634,0.671,0.730,0.736,0.757,0.775,0.624,0.723,(3.2572)+(-0.0732)Cit+(-0.0136)Lys+(-0.0014)Leu;0.634,0.675,0.736,0.761,0.746,0.724,0.655,0.721,(3.3851)+(-0.1100)Asn+(0.0094)Thr+(-0.0161)Arg;0.634,0.669,0.734,0.764,0.743,0.770,0.612,0.722,(3.2372)+(-0.0576)Cit+(-0.0109)Arg+(-0.0106)Val;0.634,0.674,0.699,0.759,0.675,0.743,0.559,0.684,(2.8790)+(0.0061)Thr+(-0.0442)Tyr+(-0.0133)Lys;0.634,0.672,0.738,0.769,0.734,0.766,0.641,0.728,(1.4062)+(0.0027)Gln+(-0.0196)Arg+(-0.0156)Lys;0.634,0.670,0.726,0.732,0.754,0.771,0.622,0.720,(3.2458)+(-0.0720)Cit+(-0.0018)Arg+(-0.0138)Lys;0

.633,0.669,0.633,0.597,0.696,0.696,0.552,0.635,(-0.1111)+(-0.1114)Cit+(0.0313)Orn+(0.0025)Phe;0.633,0.660,0.609,0.578,0.650,0.664,0.567,0.615,(-0.4475)+(0.0020)Gly+(-0.0965)Cit+(0.0224)Ile;0.633,0.669,0.674,0.730,0.629,0.678,0.613,0.663,(1.9469)+(-0.0037)Gly+(-0.0636)Tyr+(0.0205)Orn;0.633,0.680,0.725,0.793,0.707,0.754,0.561,0.704,(3.1195)+(-0.0178)Arg+(-0.0410)Tyr+(-0.0058)Leu;0.632,0.671,0.729,0.779,0.697,0.745,0.649,0.718,(3.3215)+(-0.0019)Gly+(-0.0415)Tyr+(-0.0107)Lys;0.632,0.671,0.780,0.810,0.704,0.851,0.808,0.793,(1.2611)+(-0.0017)Gly+(0.0009)Gln+(-0.0096)Ala;0.632,0.661,0.629,0.596,0.666,0.669,0.613,0.636,(0.0296)+(-0.0922)Cit+(0.0221)Ile+(-0.0031)Phe;0.632,0.666,0.685,0.717,0.628,0.707,0.703,0.689,(0.2354)+(-0.0313)Val+(0.0254)Leu+(0.0294)Phe;0.632,0.666,0.723,0.753,0.658,0.756,0.758,0.731,(1.7106)+(-0.0023)Gly+(-0.0315)Val+(0.0320)Leu;0.631,0.673,0.717,0.721,0.749,0.775,0.600,0.711,(3.1124)+(0.0045)Thr+(-0.0761)Cit+(-0.0160)Lys;0.631,0.661,0.641,0.613,0.672,0.680,0.621,0.646,(0.1161)+(-0.0915)Cit+(-0.0047)Pro+(0.0278)Ile;0.631,0.673,0.718,0.772,0.690,0.751,0.605,0.705,(2.9800)+(-0.0403)Tyr+(-0.0111)Lys+(-0.0005)Leu;0.631,0.661,0.718,0.744,0.725,0.757,0.605,0.708,(2.6635)+(0.0003)Gly+(-0.0689)Cit+(-0.0110)Val;0.631,0.668,0.780,0.809,0.708,0.854,0.802,0.793,(1.7446)+(-0.0010)Gly+(-0.0023)Thr+(-0.0091)Ala;0.631,0.660,0.702,0.724,0.705,0.747,0.608,0.696,(2.5068)+(-0.0687)Cit+(0.0049)Pro+(-0.0131)Val;0.631,0.661,0.723,0.748,0.728,0.757,0.620,0.713,(2.7662)+(-0.0009)Thr+(-0.0679)Cit+(-0.0108)Val;0.631,0.674,0.721,0.782,0.699,0.722,0.604,0.702,(3.0951)+(-0.0016)Gly+(-0.0175)Arg+(-0.0464)Tyr;0.631,0.666,0.660,0.721,0.619,0.688,0.566,0.648,(1.4204)+(-0.0049)Thr+(-0.0581)Tyr+(0.0204)Orn;0.631,0.671,0.780,0.815,0.700,0.852,0.803,0.793,(1.1791)+(0.0011)Gln+(-0.0042)Thr+(-0.0092)Ala;0.630,0.662,0.717,0.735,0.737,0.743,0.611,0.707,(2.2249)+(-0.0035)Thr+(-0.0761)Cit+(-0.0102)Leu;0.630,0.660,0.696,0.713,0.7

19,0.730,0.580,0.685,(1.8697)+(-0.0791)Cit+(0.0027)Pro+(-0.0130)Leu;0.630,0.672,0.645,0.629,0.608,0.695,0.727,0.665,(-2.1524)+(0.0417)Ser+(-0.0072)Gly+(-0.0229)Thr;0.630,0.672,0.738,0.774,0.703,0.787,0.679,0.736,(2.5885)+(-0.0203)Arg+(-0.0301)Val+(0.0333)Leu;0.630,0.661,0.711,0.725,0.719,0.728,0.646,0.704,(1.3493)+(-0.0174)Arg+(-0.0174)Lys+(0.0299)Phe;0.630,0.661,0.627,0.594,0.664,0.664,0.611,0.633,(-0.0980)+(0.0000)Gln+(-0.0927)Cit+(0.0212)Ile;0.630,0.662,0.723,0.752,0.720,0.766,0.621,0.715,(1.9553)+(0.0017)Gln+(-0.0725)Cit+(-0.0114)Val;0.630,0.664,0.699,0.729,0.643,0.752,0.701,0.706,(1.7076)+(-0.0009)Gln+(-0.0318)Val+(0.0332)Leu;0.630,0.671,0.777,0.820,0.699,0.856,0.767,0.786,(1.2964)+(0.0007)Gln+(-0.0089)Ala+(-0.0043)Leu;0.629,0.664,0.640,0.706,0.603,0.667,0.522,0.625,(1.3865)+(-0.0004)Gln+(-0.0611)Tyr+(0.0182)Orn;0.629,0.658,0.683,0.714,0.622,0.735,0.688,0.690,(1.1178)+(0.0035)Pro+(-0.0321)Val+(0.0301)Leu;0.629,0.662,0.688,0.703,0.711,0.695,0.592,0.675,(0.6462)+(-0.0820)Cit+(-0.0192)Leu+(0.0407)Phe;0.629,0.659,0.699,0.718,0.726,0.740,0.565,0.687,(1.8733)+(0.0007)Gly+(-0.0796)Cit+(-0.0109)Leu;0.628,0.667,0.783,0.817,0.714,0.854,0.785,0.793,(1.8980)+(-0.0014)Gly+(-0.0087)Ala+(-0.0041)Leu;0.628,0.661,0.680,0.685,0.708,0.711,0.587,0.673,(1.2728)+(0.0019)Gly+(-0.0067)Thr+(-0.0836)Cit;0.627,0.665,0.643,0.717,0.590,0.657,0.547,0.628,(1.4184)+(0.0003)Gln+(0.0047)Pro+(-0.0621)Tyr;0.627,0.662,0.703,0.707,0.720,0.714,0.651,0.698,(0.7401)+(0.0020)Gln+(-0.0081)Thr+(-0.0848)Cit;0.627,0.664,0.678,0.687,0.720,0.717,0.538,0.665,(1.5037)+(0.0015)Gly+(-0.0736)Cit+(-0.0139)Arg;0.626,0.671,0.780,0.819,0.706,0.856,0.777,0.790,(1.7696)+(-0.0024)Thr+(-0.0085)Ala+(-0.0034)Leu;0.625,0.660,0.708,0.731,0.724,0.742,0.588,0.696,(1.3034)+(0.0016)Gln+(-0.0822)Cit+(-0.0120)Leu;0.625,0.669,0.698,0.782,0.649,0.715,0.566,0.678,(1.7190)+(0.0011)Gln+(-0.0502)Tyr+(-0.0077)Leu;0.625,0.659,0.686,0.690,0.726,0.712,0.573,0.675,(1.6569)+(

-0.0715)Cit+(-0.0139)Arg+(0.0007)Pro;0.624,0.664,0.715,0.748,0.651,0.757,0.727,0.721,(1.5590)+(-0.0043)Thr+(-0.0307)Val+(0.0320)Leu;0.624,0.668,0.675,0.715,0.637,0.701,0.629,0.671,(-0.3879)+(-0.0213)Val+(0.0192)Orn+(0.0358)Phe;0.623,0.658,0.717,0.741,0.724,0.742,0.622,0.708,(2.2409)+(-0.0168)Arg+(0.0021)Pro+(-0.0146)Lys;0.623,0.663,0.705,0.779,0.644,0.684,0.651,0.690,(1.7768)+(-0.0035)Gly+(0.0016)Gln+(-0.0585)Tyr;0.623,0.659,0.688,0.686,0.713,0.705,0.629,0.683,(1.4265)+(-0.0061)Thr+(-0.0812)Cit+(0.0008)Pro;0.622,0.654,0.728,0.754,0.733,0.749,0.633,0.718,(2.4127)+(-0.0004)Gly+(-0.0160)Arg+(-0.0139)Lys;0.622,0.666,0.723,0.795,0.680,0.712,0.631,0.705,(2.7777)+(-0.0027)Gly+(-0.0491)Tyr+(-0.0071)Leu;0.621,0.664,0.652,0.722,0.601,0.661,0.569,0.638,(1.6786)+(-0.0022)Thr+(0.0050)Pro+(-0.0598)Tyr;0.621,0.657,0.716,0.743,0.727,0.748,0.602,0.705,(2.2883)+(0.0033)Thr+(-0.0178)Arg+(-0.0149)Lys;0.621,0.660,0.624,0.651,0.606,0.748,0.504,0.627,(0.3633)+(0.0233)Ser+(-0.0030)Gln+(-0.0139)Val;0.620,0.664,0.760,0.822,0.733,0.802,0.620,0.744,(1.9317)+(0.0023)Gln+(-0.0241)Arg+(-0.0135)Val;0.620,0.661,0.678,0.671,0.688,0.712,0.649,0.680,(0.6381)+(0.0193)Orn+(-0.0251)Lys+(0.0224)Phe;0.620,0.662,0.720,0.756,0.680,0.761,0.678,0.719,(1.4259)+(-0.0034)Gly+(-0.0180)Val+(0.0244)Orn;0.619,0.658,0.693,0.706,0.724,0.715,0.580,0.681,(0.8227)+(0.0022)Gln+(-0.0743)Cit+(-0.0169)Arg;0.618,0.648,0.653,0.653,0.690,0.691,0.552,0.646,(0.8148)+(0.0012)Gly+(-0.0876)Cit+(-0.0002)Pro;0.618,0.663,0.702,0.705,0.707,0.747,0.647,0.702,(1.4906)+(-0.0051)Thr+(0.0241)Orn+(-0.0210)Lys;0.618,0.662,0.697,0.704,0.731,0.719,0.590,0.686,(1.8192)+(-0.0020)Thr+(-0.0710)Cit+(-0.0123)Arg;0.618,0.656,0.724,0.775,0.703,0.767,0.600,0.711,(2.6680)+(-0.0222)Arg+(0.0061)Pro+(-0.0155)Val;0.617,0.666,0.720,0.757,0.683,0.776,0.661,0.719,(1.3333)+(-0.0095)Thr+(-0.0166)Val+(0.0278)Orn;0.617,0.668,0.696,0.774,0.656,0.712,0.561,0.676,(2.1779)+(0.0000)Thr+(-0.0487)Tyr+(-0.00

70)Leu;0.617,0.663,0.634,0.675,0.598,0.752,0.512,0.634,(-0.7619)+(0.0162)Ser+(-0.0169)Val+(0.0149)Orn;0.615,0.656,0.752,0.803,0.736,0.797,0.620,0.739,(3.1437)+(-0.0166)Arg+(-0.0109)Val+(-0.0059)Lys;0.615,0.648,0.655,0.655,0.688,0.691,0.558,0.648,(0.5282)+(0.0010)Gly+(0.0006)Gln+(-0.0891)Cit;0.615,0.648,0.733,0.771,0.735,0.760,0.609,0.719,(2.5834)+(-0.0169)Arg+(-0.0110)Lys+(-0.0064)Leu;0.615,0.648,0.666,0.666,0.696,0.692,0.583,0.659,(0.6154)+(0.0009)Gln+(-0.0878)Cit+(-0.0006)Pro;0.614,0.659,0.685,0.724,0.660,0.760,0.580,0.681,(1.5065)+(-0.0016)Gln+(-0.0176)Val+(0.0249)Orn;0.614,0.658,0.690,0.761,0.640,0.678,0.618,0.674,(2.3071)+(-0.0030)Gly+(0.0019)Thr+(-0.0571)Tyr;0.614,0.658,0.678,0.760,0.622,0.686,0.574,0.661,(1.4409)+(0.0009)Gln+(-0.0018)Thr+(-0.0547)Tyr;0.614,0.654,0.709,0.750,0.730,0.759,0.519,0.689,(1.5995)+(-0.0286)Arg+(0.0234)Orn+(-0.0180)Leu;0.614,0.653,0.617,0.659,0.577,0.718,0.515,0.617,(-0.7319)+(0.0181)Ser+(0.0042)Pro+(-0.0168)Val;0.613,0.659,0.751,0.801,0.714,0.810,0.653,0.745,(1.9753)+(0.0015)Gln+(-0.0107)Val+(-0.0123)Lys;0.613,0.655,0.668,0.668,0.710,0.682,0.572,0.658,(0.8739)+(-0.0733)Cit+(-0.0151)Arg+(0.0179)Phe;0.613,0.655,0.674,0.668,0.697,0.679,0.634,0.670,(0.7006)+(-0.0071)Thr+(-0.0833)Cit+(0.0173)Phe;0.612,0.640,0.631,0.624,0.671,0.665,0.544,0.626,(-0.0117)+(0.0016)Gly+(-0.0915)Cit+(0.0143)Phe;0.612,0.651,0.656,0.662,0.626,0.717,0.655,0.665,(-1.2187)+(0.0302)Ser+(-0.0087)Gly+(-0.0174)Leu;0.611,0.653,0.698,0.698,0.705,0.737,0.660,0.700,(1.6400)+(-0.0018)Gly+(0.0228)Orn+(-0.0225)Lys;0.611,0.655,0.720,0.759,0.691,0.779,0.635,0.716,(2.4074)+(0.0053)Pro+(-0.0128)Val+(-0.0115)Lys;0.611,0.654,0.685,0.689,0.693,0.738,0.620,0.685,(1.3546)+(0.0000)Pro+(0.0218)Orn+(-0.0227)Lys;0.611,0.650,0.756,0.812,0.735,0.787,0.633,0.742,(2.9984)+(-0.0011)Gly+(-0.0199)Arg+(-0.0130)Val;0.610,0.653,0.698,0.716,0.704,0.754,0.597,0.693,(1.5613)+(0.0238)Orn+(-0.0196)Lys+(-0.0078)Leu;0.609,0.655,0.672,0.716

,0.632,0.742,0.590,0.670,(0.7196)+(0.0034)Pro+(-0.0189)Val+(0.0201)Orn;0.609,0.655,0.742,0.800,0.727,0.793,0.579,0.725,(2.7162)+(0.0035)Thr+(-0.0226)Arg+(-0.0135)Val;0.608,0.650,0.710,0.754,0.663,0.692,0.705,0.704,(0.4073)+(-0.0019)Gly+(-0.0190)Val+(0.0387)Phe;0.608,0.648,0.669,0.670,0.675,0.678,0.648,0.668,(0.1708)+(-0.0062)Thr+(-0.0268)Arg+(0.0210)Ile;0.608,0.650,0.758,0.799,0.727,0.797,0.683,0.752,(2.8271)+(-0.0016)Gly+(-0.0108)Val+(-0.0104)Lys;0.608,0.653,0.688,0.694,0.692,0.740,0.625,0.688,(1.1885)+(0.0005)Gln+(0.0212)Orn+(-0.0230)Lys;0.607,0.652,0.742,0.788,0.714,0.803,0.634,0.735,(2.5172)+(0.0013)Thr+(-0.0107)Val+(-0.0114)Lys;0.607,0.645,0.701,0.704,0.701,0.704,0.692,0.700,(0.9834)+(-0.0007)Gly+(-0.0219)Lys+(0.0268)Phe;0.606,0.654,0.716,0.764,0.663,0.706,0.708,0.710,(0.3654)+(-0.0061)Thr+(-0.0181)Val+(0.0415)Phe;0.606,0.644,0.660,0.661,0.675,0.680,0.609,0.656,(0.0297)+(-0.0300)Arg+(-0.0036)Pro+(0.0240)Ile;0.606,0.639,0.645,0.638,0.680,0.661,0.578,0.639,(0.1051)+(0.0005)Gln+(-0.0896)Cit+(0.0121)Phe;0.605,0.647,0.710,0.735,0.702,0.716,0.653,0.701,(0.8139)+(-0.0182)Lys+(-0.0124)Leu+(0.0393)Phe;0.605,0.648,0.673,0.723,0.622,0.682,0.643,0.667,(-0.0138)+(0.0031)Pro+(-0.0201)Val+(0.0363)Phe;0.605,0.649,0.696,0.700,0.695,0.706,0.676,0.694,(0.8463)+(0.0001)Pro+(-0.0221)Lys+(0.0270)Phe;0.605,0.649,0.702,0.708,0.699,0.710,0.687,0.701,(0.9024)+(-0.0020)Thr+(-0.0212)Lys+(0.0275)Phe;0.604,0.654,0.585,0.575,0.573,0.687,0.561,0.599,(-1.6078)+(0.0349)Ser+(-0.0026)Gln+(-0.0209)Thr;0.604,0.646,0.719,0.771,0.728,0.704,0.572,0.694,(0.7574)+(-0.0269)Arg+(-0.0217)Leu+(0.0410)Phe;0.604,0.649,0.701,0.708,0.695,0.714,0.685,0.700,(0.5105)+(0.0010)Gln+(-0.0228)Lys+(0.0260)Phe;0.604,0.649,0.688,0.734,0.648,0.690,0.650,0.680,(0.4529)+(-0.0011)Gln+(-0.0190)Val+(0.0416)Phe;0.603,0.637,0.647,0.641,0.683,0.661,0.576,0.640,(0.3469)+(-0.0879)Cit+(-0.0013)Pro+(0.0149)Phe;0.602,0.646,0.736,0.756,0.722,0.755,0.697,0.732,(1.3798)+(

-0.0018)Gly+(0.0018)Gln+(-0.0199)Lys;0.601,0.640,0.717,0.732,0.710,0.742,0.672,0.714,(1.8809)+(-0.0011)Gly+(0.0014)Pro+(-0.0189)Lys;0.601,0.655,0.647,0.676,0.611,0.749,0.575,0.653,(-1.4968)+(0.0299)Ser+(-0.0198)Thr+(-0.0105)Leu;0.600,0.648,0.734,0.759,0.717,0.762,0.681,0.730,(1.2324)+(0.0016)Gln+(-0.0028)Thr+(-0.0189)Lys;0.600,0.646,0.715,0.738,0.703,0.750,0.655,0.711,(1.2098)+(0.0013)Gln+(0.0011)Pro+(-0.0202)Lys;0.600,0.636,0.641,0.642,0.
663,0.665,0.577,0.637,(-0.1569)+(0.0004)Gly+(-0.0311)Arg+(0.0196)Ile;0.600,0.654,0.586,0.580,0.553,0.667,0.612,0.603,(-3.3757)+(0.0338)Ser+(-0.0259)Thr+(0.0165)Phe;0.599,0.638,0.726,0.744,0.720,0.748,0.678,0.722,(1.9796)+(-0.0011)Gly+(-0.0006)Thr+(-0.0180)Lys;0.599,0.639,0.641,0.637,0.669,0.670,0.571,0.637,(-0.2096)+(-0.0320)Arg+(0.0066)Orn+(0.0171)Ile;0.598,0.637,0.714,0.762,0.660,0.737,0.682,0.710,(1.7211)+(-0.0024)Gly+(0.0048)Pro+(-0.0170)Val;0.598,0.635,0.649,0.651,0.668,0.670,0.590,0.645,(-0.3177)+(0.0006)Gln+(-0.0318)Arg+(0.0189)Ile;0.597,0.643,0.713,0.731,0.704,0.745,0.662,0.711,(1.7506)+(-0.0020)Thr+(0.0017)Pro+(-0.0183)Lys;0.597,0.645,0.696,0.711,0.718,0.724,0.593,0.686,(0.6085)+(-0.0073)Thr+(-0.0267)Arg+(0.0168)Orn;0.595,0.635,0.734,0.763,0.724,0.757,0.660,0.726,(2.1797)+(-0.0013)Gly+(-0.0158)Lys+(-0.0056)Leu;0.594,0.644,0.408,0.325,0.446,0.563,0.440,0.443,(-2.6256)+(0.0293)Ser+(-0.0060)Gln+(0.0198)Ile;0.593,0.641,0.527,0.472,0.537,0.609,0.593,0.553,(-1.6391)+(0.0354)Ser+(-0.0072)Gly+(-0.0043)Gln;0.593,0.638,0.711,0.743,0.702,0.751,0.620,0.704,(1.8560)+(0.0026)Pro+(-0.0165)Lys+(-0.0071)Leu;0.593,0.637,0.746,0.800,0.692,0.766,0.698,0.739,(1.7261)+(-0.0025)Gly+(0.0004)Gln+(-0.0151)Val;0.593,0.635,0.685,0.738,0.641,0.728,0.606,0.678,(1.5239)+(-0.0006)Gln+(0.0049)Pro+(-0.0168)Val;0.592,0.652,0.592,0.581,0.565,0.697,0.601,0.611,(-2.8016)+(0.0323)Ser+(-0.0261)Thr+(0.0104)Orn;0.592,0.645,0.730,0.769,0.713,0.767,0.637,0.721

,(1.3757)+(0.0015)Gln+(-0.0175)Lys+(-0.0056)Leu;0.591,0.636,0.647,0.644,0.667,0.668,0.594,0.643,(0.0425)+(-0.0305)Arg+(0.0204)Ile+(-0.0037)Phe;0.591,0.635,0.735,0.796,0.735,0.761,0.556,0.712,(1.1864)+(0.0021)Gln+(-0.0272)Arg+(-0.0146)Leu;0.591,0.644,0.583,0.576,0.555,0.675,0.595,0.600,(-2.7073)+(0.0330)Ser+(-0.0251)Thr+(0.0022)Pro;0.590,0.638,0.726,0.759,0.716,0.762,0.632,0.717,(1.9844)+(-0.0011)Thr+(-0.0157)Lys+(-0.0053)Leu;0.590,0.631,0.673,0.694,0.705,0.705,0.529,0.658,(0.4140)+(-0.0303)Arg+(-0.0011)Pro+(0.0137)Orn;0.589,0.627,0.672,0.688,0.703,0.698,0.548,0.659,(0.4351)+(-0.0006)Gly+(-0.0303)Arg+(0.0130)Orn;0.588,0.633,0.502,0.429,0.492,0.580,0.658,0.540,(-3.8716)+(0.0301)Ser+(-0.0081)Gly+(0.0098)Ile;0.587,0.635,0.707,0.758,0.657,0.736,0.658,0.702,(1.6617)+(-0.0065)Thr+(0.0055)Pro+(-0.0160)Val;0.587,0.629,0.566,0.530,0.549,0.628,0.652,0.590,(-2.9399)+(0.0304)Ser+(-0.0082)Gly+(-0.0026)Pro;0.585,0.634,0.750,0.802,0.699,0.767,0.705,0.743,(2.0426)+(-0.0018)Gly+(-0.0034)Thr+(-0.0142)Val;0.585,0.627,0.667,0.688,0.697,0.695,0.530,0.652,(0.1680)+(0.0005)Gln+(-0.0312)Arg+(0.0121)Orn;0.585,0.627,0.736,0.789,0.740,0.750,0.577,0.714,(2.1260)+(-0.0009)Gly+(-0.0234)Arg+(-0.0136)Leu;0.584,0.623,0.689,0.722,0.706,0.694,0.562,0.671,(0.2990)+(0.0012)Gln+(-0.0295)Arg+(-0.0002)Pro;0.584,0.627,0.712,0.748,0.715,0.711,0.614,0.697,(0.3627)+(0.0017)Gln+(-0.0053)Thr+(-0.0268)Arg;0.583,0.636,0.740,0.799,0.689,0.773,0.667,0.732,(1.5339)+(0.0006)Gln+(-0.0053)Thr+(-0.0140)Val;0.583,0.622,0.694,0.726,0.708,0.689,0.586,0.677,(0.3474)+(-0.0008)Gly+(0.0013)Gln+(-0.0294)Arg;0.583,0.627,0.709,0.763,0.716,0.734,0.535,0.687,(1.8698)+(-0.0251)Arg+(0.0037)Pro+(-0.0161)Leu;0.582,0.622,0.702,0.733,0.713,0.700,0.597,0.686,(0.9886)+(-0.0001)Gly+(-0.0037)Thr+(-0.0249)Arg;0.582,0.629,0.729,0.786,0.735,0.753,0.551,0.706,(1.9831)+(-0.0006)Thr+(-0.0235)Arg+(-0.0133)Leu;0.581,0.621,0.687,0.716,0.708,0.689,0.566,0.670,(0.8214)+(-0.0004)Gly+(-0.

0274)Arg+(0.0001)Pro;0.579,0.622,0.697,0.727,0.709,0.697,0.593,0.681,(0.9313)+(-0.0041)Thr+(-0.0250)Arg+(0.0007)Pro;0.579,0.626,0.662,0.680,0.695,0.685,0.531,0.648,(0.0884)+(-0.0311)Arg+(0.0117)Orn+(0.0062)Phe;0.579,0.635,0.565,0.580,0.576,0.699,0.404,0.565,(-0.7368)+(0.0244)Ser+(-0.0035)Gln+(-0.0142)Leu;0.576,0.625,0.562,0.600,0.548,0.628,0.441,0.554,(-2.8622)+(0.0193)Ser+(-0.0236)Leu+(0.0301)Phe;0.575,0.619,0.673,0.698,0.695,0.670,0.559,0.656,(0.2853)+(-0.0001)Gly+(-0.0288)Arg+(0.0108)Phe;0.575,0.624,0.693,0.719,0.704,0.682,0.606,0.678,(0.4214)+(-0.0046)Thr+(-0.0260)Arg+(0.0128)Phe;0.574,0.621,0.676,0.704,0.696,0.675,0.560,0.659,(-0.0683)+(0.0009)Gln+(-0.0304)Arg+(0.0096)Phe;0.573,0.623,0.544,0.498,0.532,0.616,0.641,0.572,(-2.8896)+(0.0303)Ser+(-0.0084)Gly+(-0.0061)Phe;0.573,0.620,0.675,0.703,0.697,0.673,0.556,0.657,(0.2802)+(-0.0287)Arg+(-0.0006)Pro+(0.0117)Phe;0.570,0.625,0.713,0.749,0.693,0.746,0.637,0.706,(0.6602)+(-0.0129)Thr+(0.0215)Orn+(-0.0178)Leu;0.569,0.623,0.456,0.415,0.443,0.597,0.489,0.486,(-4.2643)+(0.0205)Ser+(-0.0060)Pro+(0.0197)Ile;0.566,0.627,0.465,0.428,0.491,0.612,0.399,0.483,(-1.7722)+(0.0270)Ser+(-0.0048)Gln+(-0.0008)Pro;0.565,0.624,0.435,0.388,0.468,0.572,0.395,0.456,(-2.1461)+(0.0276)Ser+(-0.0052)Gln+(0.0074)Phe;0.561,0.616,0.541,0.497,0.526,0.597,0.646,0.566,(-3.0559)+(0.0308)Ser+(-0.0082)Gly+(-0.0051)Orn;0.556,0.618,0.637,0.618,0.600,0.638,0.764,0.655,(-0.9160)+(0.0001)Gly+(-0.0160)Thr+(0.0181)Ile;0.555,0.618,0.634,0.609,0.605,0.633,0.761,0.652,(-0.6774)+(-0.0006)Gln+(-0.0152)Thr+(0.0184)Ile;0.555,0.617,0.650,0.634,0.612,0.659,0.766,0.668,(-0.8340)+(-0.0148)Thr+(-0.0033)Pro+(0.0223)Ile;0.555,0.628,0.449,0.405,0.481,0.599,0.390,0.469,(-1.8542)+(0.0270)Ser+(-0.0050)Gln+(0.0018)Orn;0.555,0.618,0.574,0.618,0.565,0.680,0.402,0.566,(-1.8983)+(0.0182)Ser+(0.0055)Orn+(-0.0181)Leu;0.554,0.608,0.565,0.607,0.552,0.663,0.407,0.558,(-1.8728)+(0.0189)Ser+(0.0014)Pro+(-0.0180)Leu;0.553,

0.606,0.714,0.763,0.684,0.671,0.676,0.698,(-0.0661)+(-0.0103)Thr+(-0.0212)Leu+(0.0341)Phe;0.550,0.626,0.635,0.607,0.606,0.648,0.756,0.654,(-1.0019)+(-0.0170)Thr+(0.0065)Orn+(0.0161)Ile;0.549,0.615,0.643,0.624,0.608,0.653,0.764,0.662,(-0.5794)+(-0.0153)Thr+(0.0207)Ile+(-0.0092)Phe;0.547,0.601,0.410,0.361,0.403,0.575,0.439,0.444,(-3.9086)+(0.0198)Ser+(0.0164)Ile+(-0.0150)Phe;0.538,0.621,0.688,0.688,0.664,0.693,0.734,0.695,(-0.4056)+(-0.0007)Gly+(-0.0154)Thr+(0.0122)Orn;0.533,0.621,0.674,0.672,0.656,0.690,0.706,0.681,(-0.2638)+(-0.0006)Gln+(-0.0151)Thr+(0.0128)Orn;0.530,0.584,0.742,0.794,0.711,0.728,0.679,0.728,(1.1970)+(-0.0013)Gly+(-0.0079)Thr+(-0.0148)Leu;0.530,0.594,0.701,0.747,0.685,0.716,0.603,0.688,(0.4425)+(-0.0030)Gly+(0.0151)Orn+(-0.0204)Leu;0.528,0.582,0.708,0.759,0.674,0.715,0.641,0.697,(0.9378)+(-0.0101)Thr+(0.0034)Pro+(-0.0167)Leu;0.528,0.622,0.686,0.692,0.661,0.700,0.715,0.692,(-0.4550)+(-0.0154)Thr+(-0.0008)Pro+(0.0126)Orn;0.528,0.599,0.466,0.456,0.465,0.591,0.408,0.480,(-3.4755)+(0.0200)Ser+(-0.0027)Pro+(0.0004)Phe;0.527,0.589,0.737,0.797,0.696,0.742,0.659,0.724,(0.7102)+(0.0007)Gln+(-0.0096)Thr+(-0.0149)Leu;0.526,0.621,0.681,0.683,0.655,0.695,0.719,0.688,(-0.5559)+(-0.0158)Thr+(0.0118)Orn+(0.0015)Phe;0.526,0.590,0.414,0.372,0.404,0.520,0.467,0.441,(-4.2575)+(0.0216)Ser+(-0.0122)Orn+(0.0157)Ile;0.525,0.591,0.706,0.726,0.675,0.675,0.739,0.704,(-0.0943)+(-0.0006)Gly+(0.0001)Gln+(-0.0126)Thr;0.524,0.590,0.691,0.745,0.671,0.638,0.631,0.671,(-0.2627)+(-0.0021)Gly+(-0.0233)Leu+(0.0289)Phe;0.522,0.596,0.638,0.694,0.630,0.632,0.512,0.617,(-0.9720)+(0.0108)Orn+(-0.0252)Leu+(0.0272)Phe;0.519,0.597,0.655,0.701,0.662,0.705,0.480,0.637,(0.4763)+(-0.0013)Gln+(0.0154)Orn+(-0.0194)Leu;0.518,0.592,0.695,0.711,0.666,0.661,0.739,0.694,(-0.3335)+(-0.0004)Gly+(-0.0132)Thr+(0.0052)Phe;0.516,0.590,0.705,0.726,0.674,0.674,0.737,0.703,(-0.0734)+(-0.0006)Gly+(-0.0126)Thr+(-0.0000)Pro;0.516,0.592,0.469,0.462,0.4

63,0.587,0.413,0.481,(-3.3459)+(0.0204)Ser+(-0.0023)Pro+(-0.0039)Orn;0.515,0.594,0.688,0.705,0.659,0.664,0.722,0.688,(-0.3432)+(-0.0002)Gln+(-0.0133)Thr+(0.0059)Phe;0.514,0.581,0.647,0.712,0.630,0.616,0.532,0.622,(-0.7417)+(0.0011)Pro+(-0.0241)Leu+(0.0289)Phe;0.513,0.592,0.700,0.722,0.669,0.678,0.723,0.698,(-0.1324)+(-0.0001)Gln+(-0.0129)Thr+(0.0000)Pro;0.511,0.573,0.707,0.767,0.678,0.696,0.614,0.689,(0.7028)+(-0.0024)Gly+(0.0019)Pro+(-0.0187)Leu;0.511,0.590,0.651,0.711,0.641,0.696,0.480,0.632,(-0.1366)+(0.0010)Pro+(0.0124)Orn+(-0.0205)Leu;0.510,0.585,0.652,0.706,0.646,0.627,0.542,0.630,(-0.2737)+(-0.0010)Gln+(-0.0231)Leu+(0.0313)Phe;0.509,0.576,0.725,0.786,0.698,0.718,0.627,0.707,(0.7731)+(-0.0024)Gly+(0.0001)Gln+(-0.0173)Leu;0.505,0.594,0.692,0.710,0.661,0.668,0.725,0.691,(-0.4065)+(-0.0134)Thr+(-0.0003)Pro+(0.0060)Phe;0.501,0.572,0.438,0.425,0.434,0.547,0.404,0.452,(-3.5143)+(0.0206)Ser+(-0.0060)Orn+(-0.0006)Phe

[0380] 0.868,0.887,0.812,0.814,0.816,0.826,0.787,0.811,(-0.6936)+(0.0495)Ser+(-0.2897)Met+(0.1345)Phe+(-0.1458)Trp;0.867,0.887,0.767,0.742,0.767,0.829,0.787,0.781,(1.8981)+(0.0482)Ser+(-0.1330)His+(0.1211)Phe+(-0.1189)Trp;0.859,0.880,0.788,0.765,0.799,0.810,0.807,0.795,(5.5872)+(-0.1248)His+(0.0227)Thr+(0.1034)Phe+(-0.1281)Trp;0.859,0.879,0.818,0.810,0.812,0.831,0.842,0.824,(3.3687)+(0.0094)Gln+(-0.1373)His+(0.1016)Phe+(-0.1198)Trp;0.858,0.873,0.755,0.719,0.757,0.828,0.795,0.775,(3.8688)+(0.0418)Ser+(-0.1122)His+(0.0756)Ile+(-0.1226)Trp;0.858,0.878,0.802,0.806,0.796,0.815,0.796,0.803,(1.4379)+(0.0468)Ser+(-0.1406)Asn+(0.0925)Phe+(-0.1494)Trp;0.857,0.876,0.767,0.742,0.776,0.835,0.770,0.781,(-0.3631)+(0.0601)Ser+(-0.1472)His+(-0.2802)Met+(0.1624)Phe;0.852,0.871,0.791,0.760,0.793,0.812,0.852,0.804,(5.7984)+(-0.1096)His+(0.0488)Ile+(0.0764)Phe+(-0.1294)Trp;0.852,0.870,0.796,0.784,0.752,0.839,0.888,0.816,(1.7025)+(-0.0640)Val+(-0.3892)Met+(0.2012)Ile+(0.1197)Phe;0

.852,0.872,0.808,0.798,0.778,0.844,0.873,0.823,(6.6666)+(-0.0432)Val+(-0.1839)Met+(0.1753)Ile+(-0.1070)Trp;0.852,0.870,0.782,0.766,0.781,0.831,0.788,0.792,(1.7250)+(0.0453)Ser+(-0.2355)Met+(0.0785)Ile+(-0.1464)Trp;0.851,0.868,0.777,0.768,0.743,0.797,0.861,0.792,(3.1638)+(-0.0441)Val+(0.1421)Ile+(0.0684)Phe+(-0.1578)Trp;0.850,0.867,0.771,0.744,0.784,0.822,0.777,0.782,(2.8932)+(0.0351)Ser+(-0.0931)Cit+(0.0687)Ile+(-0.1868)Trp;0.850,0.866,0.799,0.780,0.793,0.829,0.842,0.811,(4.9396)+(0.0088)Gln+(-0.1221)His+(0.0645)Ile+(-0.1245)Trp;0.849,0.864,0.776,0.748,0.778,0.820,0.816,0.791,(7.0898)+(-0.1081)His+(0.0181)Thr+(0.0644)Ile+(-0.1288)Trp;0.848,0.868,0.770,0.751,0.729,0.872,0.831,0.796,(1.0778)+(0.0407)Ser+(-0.0537)Val+(-0.3400)Met+(0.1986)Ile;0.847,0.868,0.801,0.781,0.810,0.815,0.825,0.808,(5.9199)+(-0.1114)His+(0.0225)Orn+(0.0932)Phe+(-0.1159)Trp;0.847,0.868,0.809,0.812,0.833,0.786,0.764,0.799,(2.8552)+(0.0368)Thr+(-0.3410)Met+(0.1295)Phe+(-0.1602)Trp;0.847,0.862,0.797,0.791,0.746,0.844,0.886,0.817,(5.8480)+(-0.0079)Ala+(-0.0409)Val+(0.1684)Ile+(-0.1273)Trp;0.847,0.867,0.796,0.784,0.797,0.820,0.809,0.803,(5.3440)+(0.0046)Gly+(-0.1128)His+(0.1088)Phe+(-0.1149)Trp;0.846,0.862,0.782,0.765,0.756,0.825,0.853,0.800,(7.1512)+(-0.0690)His+(-0.0299)Val+(0.1370)Ile+(-0.1095)Trp;0.846,0.872,0.778,0.777,0.780,0.783,0.771,0.778,(0.6197)+(0.0338)Ser+(-0.0124)Lys+(0.0844)Phe+(-0.1674)Trp;0.846,0.864,0.788,0.783,0.771,0.792,0.832,0.794,(2.9278)+(0.1367)Ile+(-0.0728)Leu+(0.0636)Phe+(-0.1605)Trp;0.845,0.867,0.802,0.786,0.806,0.808,0.832,0.808,(5.9787)+(-0.1062)His+(0.0042)Pro+(0.0998)Phe+(-0.1185)Trp;0.845,0.864,0.781,0.768,0.740,0.868,0.837,0.803,(3.9962)+(0.0311)Thr+(-0.0608)Val+(-0.3891)Met+(0.2090)Ile;0.845,0.867,0.776,0.782,0.770,0.777,0.773,0.776,(0.5852)+(0.0287)Ser+(-0.0073)Val+(0.0843)Phe+(-0.1708)Trp;0.845,0.863,0.807,0.793,0.809,0.812,0.833,0.812,(6.1244)+(-0.1061)His+(0.0006)Val+(0.1029)Phe+(-0.1166)Trp;0.84

5,0.861,0.795,0.776,0.784,0.827,0.844,0.808,(7.2040)+(-0.0764)His+(0.1160)Ile+(-0.0374)Leu+(-0.1146)Trp;0.844,0.861,0.769,0.754,0.773,0.835,0.754,0.779,(5.3551)+(0.0386)Ser+(-0.0976)His+(0.0099)Pro+(-0.1040)Trp;0.844,0.862,0.791,0.776,0.764,0.835,0.855,0.807,(6.2375)+(-0.0640)Cit+(-0.0362)Val+(0.1489)Ile+(-0.1415)Trp;0.843,0.865,0.812,0.801,0.814,0.818,0.835,0.817,(6.3125)+(-0.0124)Asn+(-0.1023)His+(0.1040)Phe+(-0.1146)Trp;0.843,0.864,0.818,0.808,0.814,0.830,0.843,0.824,(6.2917)+(-0.1021)His+(-0.0028)Ala+(0.1090)Phe+(-0.1131)Trp;0.843,0.863,0.803,0.783,0.809,0.810,0.836,0.809,(6.1579)+(-0.1100)His+(0.0102)Leu+(0.0940)Phe+(-0.1216)Trp;0.843,0.860,0.777,0.768,0.793,0.797,0.754,0.778,(1.1802)+(0.0372)Ser+(-0.1027)Cit+(0.0987)Phe+(-0.1854)Trp;0.843,0.859,0.809,0.805,0.775,0.843,0.867,0.822,(5.7424)+(-0.0082)Ala+(0.1610)Ile+(-0.0664)Leu+(-0.1350)Trp;0.842,0.859,0.798,0.791,0.758,0.840,0.870,0.815,(6.8143)+(-0.0695)Asn+(-0.0424)Val+(0.1546)Ile+(-0.1154)Trp;0.842,0.866,0.827,0.817,0.834,0.827,0.838,0.829,(6.1768)+(-0.0922)His+(-0.1319)Met+(0.1301)Phe+(-0.1062)Trp;0.842,0.862,0.780,0.766,0.788,0.847,0.750,0.788,(5.5527)+(0.0338)Ser+(-0.1006)His+(0.0284)Orn+(-0.0991)Trp;0.841,0.859,0.783,0.752,0.791,0.822,0.823,0.797,(7.2352)+(-0.1007)His+(0.0228)Orn+(0.0594)Ile+(-0.1205)Trp;0.841,0.861,0.756,0.742,0.720,0.817,0.821,0.775,(2.7061)+(0.0256)Ser+(-0.0402)Val+(0.1469)Ile+(-0.1474)Trp;0.841,0.857,0.801,0.779,0.791,0.838,0.855,0.816,(7.8145)+(-0.0856)His+(-0.0049)Ala+(0.0743)Ile+(-0.1162)Trp;0.840,0.862,0.803,0.788,0.805,0.810,0.830,0.808,(5.9127)+(-0.1100)His+(0.0052)Lys+(0.1000)Phe+(-0.1200)Trp;0.840,0.863,0.781,0.785,0.792,0.786,0.746,0.777,(0.8091)+(0.0353)Ser+(-0.0284)Arg+(0.0879)Phe+(-0.1742)Trp;0.840,0.856,0.799,0.800,0.792,0.852,0.776,0.805,(4.6131)+(0.0288)Ser+(0.0066)Gln+(-0.1102)His+(-0.0990)Trp;0.840,0.857,0.773,0.753,0.784,0.834,0.758,0.782,(5.1823)+(0.0402)Ser+(-0.1098)His+(0.0120)Val+(-0.1100)Trp;0.

839,0.857,0.760,0.729,0.772,0.825,0.768,0.774,(4.7218)+(0.0420)Ser+(-0.1164)His+(0.0313)Leu+(-0.1150)Trp;0.839,0.857,0.776,0.763,0.768,0.823,0.792,0.787,(2.8672)+(0.0433)Ser+(-0.1153)Asn+(0.0572)Ile+(-0.1517)Trp;0.839,0.862,0.744,0.704,0.745,0.841,0.776,0.767,(2.1986)+(0.0514)Ser+(-0.1264)His+(-0.2196)Met+(0.0830)Ile;0.839,0.861,0.793,0.795,0.778,0.811,0.806,0.798,(0.7514)+(0.0301)Ser+(-0.0068)Ala+(0.0855)Phe+(-0.1659)Trp;0.839,0.857,0.769,0.745,0.789,0.808,0.760,0.775,(3.7383)+(-0.1490)His+(0.0429)Thr+(-0.3207)Met+(0.1423)Phe;0.839,0.856,0.798,0.797,0.796,0.859,0.764,0.804,(6.4883)+(0.0411)Ser+(-0.0461)Asn+(-0.0805)His+(-0.0932)Trp;0.838,0.859,0.763,0.753,0.746,0.814,0.791,0.776,(2.2558)+(0.0259)Ser+(0.1387)Ile+(-0.0624)Leu+(-0.1558)Trp;0.838,0.861,0.763,0.761,0.766,0.761,0.763,0.763,(0.3487)+(0.0284)Ser+(0.0015)Pro+(0.0693)Phe+(-0.1812)Trp;0.838,0.861,0.767,0.768,0.770,0.766,0.762,0.766,(0.4098)+(0.0285)Ser+(-0.0019)Leu+(0.0727)Phe+(-0.1786)Trp;0.838,0.862,0.810,0.798,0.812,0.817,0.831,0.815,(6.2982)+(-0.1037)His+(-0.0050)Arg+(0.1052)Phe+(-0.1153)Trp;0.838,0.854,0.778,0.753,0.777,0.821,0.814,0.791,(6.9014)+(0.0041)Gly+(-0.0990)His+(0.0678)Ile+(-0.1183)Trp;0.838,0.861,0.774,0.774,0.773,0.775,0.776,0.774,(0.2426)+(0.0325)Ser+(-0.0071)Thr+(0.0745)Phe+(-0.1744)Trp;0.838,0.863,0.808,0.801,0.806,0.814,0.830,0.813,(6.1545)+(-0.1031)His+(-0.0154)Tyr+(0.1119)Phe+(-0.1109)Trp;0.838,0.855,0.804,0.799,0.786,0.826,0.841,0.813,(6.0808)+(-0.0486)Asn+(0.1377)Ile+(-0.0625)Leu+(-0.1335)Trp;0.837,0.858,0.779,0.771,0.783,0.848,0.740,0.785,(6.0131)+(0.0326)Ser+(-0.0989)His+(0.0111)Thr+(-0.1019)Trp;0.837,0.857,0.790,0.782,0.820,0.841,0.713,0.789,(4.6027)+(0.0276)Ser+(-0.1146)Cit+(0.0484)Orn+(-0.1654)Trp;0.837,0.859,0.766,0.776,0.760,0.764,0.753,0.763,(0.5464)+(0.0307)Ser+(-0.0422)Tyr+(0.0961)Phe+(-0.1664)Trp;0.837,0.854,0.809,0.798,0.807,0.831,0.824,0.815,(5.3566)+(0.0099)Gln+(-0.1282)His+(0.0250)Leu+(-0.1168)Trp;0.837

,0.855,0.786,0.791,0.787,0.828,0.738,0.786,(3.6885)+(0.0399)Ser+(0.0129)Pro+(-0.1933)Met+(-0.1350)Trp;0.836,0.853,0.789,0.762,0.789,0.817,0.836,0.801,(7.4907)+(-0.0926)His+(0.0006)Pro+(0.0644)Ile+(-0.1201)Trp;0.836,0.852,0.788,0.762,0.788,0.818,0.835,0.801,(7.4632)+(0.0027)Asn+(-0.0934)His+(0.0653)Ile+(-0.1202)Trp;0.836,0.862,0.761,0.756,0.767,0.766,0.756,0.761,(0.7507)+(0.0312)Ser+(-0.0017)Gln+(0.0730)Phe+(-0.1768)Trp;0.836,0.856,0.796,0.795,0.795,0.860,0.757,0.802,(6.1565)+(0.0388)Ser+(-0.0829)His+(-0.0539)Met+(-0.0922)Trp;0.836,0.851,0.736,0.697,0.715,0.844,0.803,0.765,(2.4233)+(0.0412)Ser+(-0.1423)His+(-0.0074)Ala+(0.0706)Ile;0.836,0.855,0.800,0.787,0.789,0.836,0.828,0.810,(6.1927)+(-0.0732)Cit+(0.1445)Ile+(-0.0583)Leu+(-0.1486)Trp;0.836,0.853,0.787,0.760,0.788,0.816,0.836,0.800,(7.3754)+(-0.0953)His+(0.0030)Lys+(0.0633)Ile+(-0.1220)Trp;0.836,0.856,0.806,0.799,0.790,0.832,0.838,0.815,(6.1190)+(-0.1498)Met+(0.1521)Ile+(-0.0618)Leu+(-0.1243)Trp;0.836,0.857,0.743,0.725,0.748,0.752,0.778,0.750,(0.0321)+(0.0282)Ser+(0.0410)Ile+(0.0467)Phe+(-0.1924)Trp;0.835,0.860,0.781,0.770,0.785,0.764,0.812,0.783,(0.8860)+(0.0394)Ser+(-0.0080)Gly+(0.0665)Phe+(-0.1768)Trp;0.835,0.852,0.835,0.842,0.825,0.856,0.823,0.836,(6.2303)+(-0.0477)Asn+(0.0114)Gln+(-0.1009)His+(-0.0967)Trp;0.835,0.861,0.768,0.767,0.771,0.764,0.766,0.767,(0.3827)+(0.0289)Ser+(-0.0037)Orn+(0.0733)Phe+(-0.1799)Trp;0.835,0.853,0.774,0.758,0.750,0.828,0.827,0.791,(2.0142)+(0.0307)Ser+(-0.0093)Ala+(0.0731)Ile+(-0.1641)Trp;0.835,0.854,0.783,0.770,0.788,0.847,0.763,0.792,(5.6027)+(0.0377)Ser+(-0.0990)His+(0.0199)Tyr+(-0.1043)Trp;0.835,0.854,0.793,0.765,0.798,0.825,0.832,0.805,(7.7949)+(-0.0751)His+(-0.0448)Cit+(0.0687)Ile+(-0.1275)Trp;0.834,0.851,0.785,0.780,0.786,0.848,0.753,0.792,(5.9101)+(0.0370)Ser+(-0.0917)His+(0.0002)Ala+(-0.0962)Trp;0.834,0.852,0.782,0.774,0.783,0.844,0.754,0.789,(5.6352)+(0.0358)Ser+(-0.0975)His+(0.0063)Lys+(-0.1016)Trp;0.834,0

.851,0.810,0.813,0.803,0.842,0.791,0.812,(6.0421)+(0.0082)Gln+(-0.1143)His+(0.0137)Thr+(-0.1073)Trp;0.834,0.855,0.808,0.812,0.815,0.847,0.755,0.807,(8.8275)+(-0.0828)His+(0.0309)Thr+(-0.1132)Met+(-0.1022)Trp;0.834,0.853,0.816,0.812,0.814,0.836,0.818,0.820,(5.4534)+(0.0102)Gln+(-0.1239)His+(0.0097)Val+(-0.1123)Trp;0.834,0.854,0.814,0.819,0.823,0.859,0.750,0.813,(6.0473)+(0.0405)Ser+(-0.0809)Asn+(-0.0633)Cit+(-0.1326)Trp;0.834,0.854,0.788,0.777,0.800,0.831,0.761,0.792,(7.8145)+(-0.1004)His+(0.0165)Thr+(0.0288)Orn+(-0.1072)Trp;0.834,0.850,0.738,0.709,0.738,0.810,0.762,0.755,(1.2617)+(0.0555)Ser+(-0.1047)Asn+(-0.1496)His+(0.1097)Phe;0.833,0.852,0.810,0.808,0.810,0.838,0.797,0.813,(5.7609)+(0.0085)Gln+(-0.1139)His+(0.0253)Orn+(-0.1025)Trp;0.833,0.852,0.788,0.762,0.789,0.818,0.835,0.801,(7.5060)+(-0.0927)His+(0.0004)Tyr+(0.0650)Ile+(-0.1200)Trp;0.833,0.859,0.812,0.797,0.821,0.819,0.825,0.815,(6.4158)+(-0.0901)His+(-0.0521)Cit+(0.1152)Phe+(-0.1253)Trp;0.833,0.852,0.773,0.763,0.739,0.812,0.842,0.789,(4.8036)+(-0.0417)Val+(0.0115)Orn+(0.1461)Ile+(-0.1393)Trp;0.833,0.851,0.811,0.812,0.805,0.835,0.805,0.814,(5.7123)+(0.0094)Gln+(-0.1120)His+(0.0071)Pro+(-0.1050)Trp;0.833,0.847,0.789,0.784,0.793,0.822,0.768,0.792,(8.0392)+(-0.0941)His+(0.0187)Thr+(0.0059)Pro+(-0.1095)Trp;0.833,0.851,0.789,0.764,0.790,0.820,0.834,0.802,(7.5890)+(-0.0916)His+(-0.0019)Arg+(0.0652)Ile+(-0.1195)Trp;0.832,0.849,0.793,0.785,0.791,0.845,0.783,0.801,(6.0170)+(0.0442)Ser+(-0.0053)Gly+(-0.0883)His+(-0.0968)Trp;0.832,0.853,0.791,0.785,0.798,0.856,0.747,0.797,(6.

2172)+(0.0386)Ser+(-0.0802)His+(-0.0357)Cit+(-0.0996)Trp;0.832,0.848,0.801,0.788,0.830,0.803,0.771,0.798,(4.5988)+(-0.1254)Cit+(0.0457)Orn+(0.0749)Phe+(-0.1801)Trp;0.832,0.848,0.776,0.768,0.739,0.811,0.847,0.791,(4.7921)+(0.0007)Gln+(-0.0405)Val+(0.1467)Ile+(-0.1401)Trp;0.832,0.858,0.813,0.801,0.807,0.833,0.839,0.820,(0.8683)+(0.0127)Gln+(-0.1

563)His+(-0.2363)Met+(0.1260)Phe;0.832,0.849,0.777,0.757,0.790,0.811,0.778,0.784,(7.7615)+(-0.1131)His+(0.0218)Thr+(0.0251)Leu+(-0.1231)Trp;0.832,0.850,0.770,0.761,0.736,0.811,0.838,0.786,(4.8075)+(0.0056)Thr+(-0.0413)Val+(0.1476)Ile+(-0.1427)Trp;0.831,0.847,0.777,0.768,0.739,0.812,0.852,0.793,(5.1738)+(-0.0006)Gly+(-0.0408)Val+(0.1480)Ile+(-0.1376)Trp;0.831,0.849,0.804,0.803,0.809,0.839,0.769,0.805,(8.9090)+(-0.0386)Asn+(-0.0857)His+(0.0248)Thr+(-0.1052)Trp;0.831,0.849,0.804,0.787,0.813,0.816,0.820,0.809,(4.2918)+(0.0047)Gln+(-0.0911)Cit+(0.0618)Ile+(-0.1841)Trp;0.831,0.850,0.780,0.774,0.800,0.824,0.722,0.780,(4.3970)+(0.0326)Ser+(-0.0821)Cit+(0.0095)Pro+(-0.1628)Trp;0.831,0.849,0.789,0.788,0.769,0.805,0.820,0.796,(3.9802)+(0.0021)Gln+(0.1386)Ile+(-0.0651)Leu+(-0.1514)Trp;0.831,0.847,0.823,0.829,0.812,0.847,0.812,0.825,(5.9272)+(0.0099)Gln+(-0.1077)His+(-0.0006)Ala+(-0.0993)Trp;0.831,0.848,0.776,0.769,0.737,0.816,0.845,0.792,(5.0725)+(-0.0343)Val+(0.1637)Ile+(-0.0217)Leu+(-0.1350)Trp;0.831,0.847,0.813,0.797,0.805,0.839,0.853,0.824,(6.6077)+(-0.0078)Ala+(-0.0782)Cit+(0.0801)Ile+(-0.1575)Trp;0.830,0.846,0.699,0.649,0.698,0.801,0.761,0.727,(0.2117)+(0.0436)Ser+(-0.1732)His+(0.0360)Ile+(0.0678)Phe;0.830,0.848,0.777,0.767,0.740,0.818,0.850,0.794,(5.3363)+(-0.0402)Val+(-0.0038)Lys+(0.1498)Ile+(-0.1338)Trp;0.830,0.848,0.775,0.769,0.737,0.810,0.844,0.790,(5.3708)+(-0.0126)Tyr+(-0.0400)Val+(0.1488)Ile+(-0.1327)Trp;0.830,0.851,0.831,0.838,0.819,0.856,0.816,0.833,(5.9044)+(0.0108)Gln+(-0.1018)His+(-0.0566)Met+(-0.0952)Trp;0.830,0.849,0.787,0.781,0.770,0.805,0.820,0.794,(4.7452)+(0.0028)Orn+(0.1385)Ile+(-0.0647)Leu+(-0.1466)Trp;0.830,0.855,0.840,0.851,0.842,0.798,0.834,0.831,(1.6077)+(0.0063)Gln+(-0.2432)Met+(0.1124)Phe+(-0.1488)Trp;0.830,0.848,0.789,0.796,0.788,0.826,0.750,0.790,(4.4666)+(0.0401)Ser+(-0.1088)Asn+(0.0079)Pro+(-0.1356)Trp;0.830,0.855,0.841,0.851,0.841,0.802,0.844,0.835,(3.1099)+(-0.0982)Asn+(0.

0059)Gln+(0.0746)Phe+(-0.1606)Trp;0.829,0.845,0.789,0.765,0.814,0.815,0.784,0.794,(5.7602)+(-0.1121)Cit+(0.0395)Orn+(0.0510)Ile+(-0.1782)Trp;0.829,0.854,0.799,0.776,0.800,0.828,0.837,0.810,(7.7863)+(-0.0798)His+(-0.0851)Met+(0.0715)Ile+(-0.1120)Trp;0.829,0.848,0.793,0.773,0.807,0.786,0.822,0.797,(4.1507)+(-0.0952)Cit+(0.0503)Ile+(0.0657)Phe+(-0.1880)Trp;0.829,0.847,0.821,0.826,0.811,0.845,0.809,0.823,(5.8736)+(0.0001)Gly+(0.0098)Gln+(-0.1089)His+(-0.1000)Trp;0.829,0.846,0.791,0.780,0.803,0.823,0.773,0.795,(8.0622)+(-0.1033)His+(0.0205)Thr+(0.0074)Val+(-0.1153)Trp;0.829,0.850,0.811,0.816,0.824,0.858,0.738,0.809,(5.3014)+(0.0362)Ser+(-0.0595)Cit+(-0.1015)Met+(-0.1322)Trp;0.829,0.850,0.788,0.784,0.790,0.851,0.749,0.793,(6.1599)+(0.0387)Ser+(-0.0885)His+(-0.0087)Arg+(-0.0935)Trp;0.829,0.846,0.731,0.701,0.720,0.823,0.770,0.753,(0.9324)+(0.0445)Ser+(-0.1600)His+(-0.0048)Ala+(0.0994)Phe;0.829,0.848,0.783,0.776,0.747,0.822,0.845,0.798,(6.0528)+(-0.0187)Arg+(-0.0425)Val+(0.1569)Ile+(-0.1281)Trp;0.829,0.852,0.802,0.811,0.802,0.763,0.807,0.796,(3.3228)+(0.0042)Pro+(-0.0082)Val+(0.0808)Phe+(-0.1647)Trp;0.829,0.846,0.787,0.766,0.804,0.809,0.790,0.792,(5.6036)+(0.0109)Thr+(-0.0876)Cit+(0.0608)Ile+(-0.1828)Trp;0.829,0.846,0.715,0.674,0.703,0.823,0.768,0.742,(2.2744)+(0.0369)Ser+(-0.1381)His+(0.1008)Ile+(-0.0337)Leu;0.828,0.848,0.787,0.783,0.770,0.805,0.820,0.794,(4.7835)+(0.0007)Thr+(0.1389)Ile+(-0.0644)Leu+(-0.1470)Trp;0.828,0.846,0.776,0.768,0.739,0.813,0.849,0.792,(5.1250)+(-0.0016)Pro+(-0.0407)Val+(0.1500)Ile+(-0.1376)Trp;0.828,0.849,0.788,0.783,0.772,0.804,0.824,0.796,(4.9098)+(-0.0005)Gly+(0.1392)Ile+(-0.0645)Leu+(-0.1461)Trp;0.828,0.847,0.816,0.819,0.808,0.838,0.809,0.818,(5.6906)+(0.0092)Gln+(-0.1127)His+(0.0057)Lys+(-0.1046)Trp;0.828,0.848,0.820,0.821,0.813,0.845,0.815,0.824,(5.7459)+(0.0097)Gln+(-0.1148)His+(0.0152)Tyr+(-0.1061)Trp;0.828,0.848,0.828,0.828,0.841,0.808,0.817,0.823,(5.6837)+(-0.0504)Asn+(-0

.0816)Cit+(0.0953)Phe+(-0.1596)Trp;0.828,0.846,0.726,0.683,0.724,0.827,0.772,0.752,(2.8591)+(0.0473)Ser+(-0.0729)Asn+(-0.1376)His+(0.0587)Ile;0.828,0.843,0.724,0.689,0.726,0.812,0.747,0.744,(1.1550)+(0.0475)Ser+(-0.1605)His+(-0.0124)Lys+(0.1035)Phe;0.828,0.847,0.812,0.828,0.808,0.849,0.754,0.810,(5.1227)+(0.0391)Ser+(-0.0638)Asn+(-0.0785)Met+(-0.1277)Trp;0.828,0.849,0.791,0.777,0.804,0.820,0.783,0.796,(7.8247)+(-0.0917)His+(0.0061)Pro+(0.0327)Orn+(-0.1030)Trp;0.827,0.849,0.799,0.811,0.807,0.845,0.716,0.795,(4.6547)+(0.0294)Ser+(0.0152)Thr+(-0.1745)Met+(-0.1408)Trp;0.827,0.845,0.809,0.822,0.802,0.847,0.761,0.808,(5.0939)+(0.0377)Ser+(-0.0893)Asn+(-0.0015)Ala+(-0.1295)Trp;0.827,0.852,0.801,0.802,0.794,0.769,0.836,0.800,(3.4551)+(-0.0264)Val+(0.0414)Leu+(0.0783)Phe+(-0.1718)Trp;0.827,0.847,0.818,0.834,0.811,0.847,0.772,0.816,(4.0201)+(0.0346)Ser+(-0.1139)Asn+(0.0041)Gln+(-0.1359)Trp;0.827,0.850,0.786,0.776,0.793,0.806,0.784,0.790,(5.1661)+(0.0248)Thr+(-0.2423)Met+(0.0661)Ile+(-0.1533)Trp;0.827,0.848,0.799,0.808,0.799,0.837,0.747,0.798,(4.5281)+(0.0374)Ser+(-0.1072)Asn+(0.0208)Orn+(-0.1346)Trp;0.827,0.844,0.714,0.665,0.717,0.824,0.759,0.741,(2.5591)+(0.0437)Ser+(-0.1436)His+(-0.0125)Lys+(0.0645)Ile;0.827,0.845,0.793,0.787,0.800,0.826,0.768,0.795,(8.0144)+(-0.0971)His+(0.0190)Thr+(0.0053)Lys+(-0.1096)Trp;0.827,0.847,0.787,0.782,0.771,0.805,0.820,0.795,(4.9183)+(-0.0014)Lys+(0.1392)Ile+(-0.0637)Leu+(-0.1450)Trp;0.827,0.846,0.785,0.785,0.764,0.804,0.813,0.791,(5.3062)+(-0.0195)Tyr+(0.1428)Ile+(-0.0641)Leu+(-0.1374)Trp;0.827,0.846,0.799,0.800,0.800,0.841,0.769,0.802,(8.4236)+(-0.0912)His+(0.0218)Thr+(-0.0013)Ala+(-0.1053)Trp;0.827,0.851,0.833,0.832,0.850,0.810,0.815,0.827,(4.9049)+(-0.0733)Cit+(-0.1545)Met+(0.1213)Phe+(-0.1501)Trp;0.827,0.847,0.829,0.834,0.822,0.856,0.811,0.831,(6.0384)+(0.0103)Gln+(-0.0971)His+(-0.0361)Cit+(-0.1033)Trp;0.827,0.844,0.721,0.703,0.711,0.796,0.737,0.737,(0.9223)+(0.0443)Ser+(-

0.1561)His+(-0.0445)Tyr+(0.1167)Phe;0.827,0.852,0.834,0.843,0.836,0.792,0.833,0.826,(4.9195)+(-0.0704)Asn+(-0.0076)Val+(0.0926)Phe+(-0.1432)Trp;0.827,0.849,0.799,0.809,0.805,0.762,0.789,0.791,(3.1688)+(0.0077)Thr+(-0.0081)Val+(0.0811)Phe+(-0.1696)Trp;0.827,0.850,0.808,0.799,0.815,0.787,0.835,0.809,(3.5338)+(-0.2354)Met+(0.0529)Ile+(0.0869)Phe+(-0.1526)Trp;0.827,0.845,0.826,0.834,0.817,0.849,0.806,0.827,(6.0110)+(0.0113)Gln+(-0.1081)His+(-0.0133)Arg+(-0.0973)Trp;0.826,0.848,0.800,0.798,0.811,0.841,0.754,0.801,(8.6973)+(-0.0816)His+(0.0235)Thr+(-0.0402)Cit+(-0.1118)Trp;0.826,0.846,0.789,0.786,0.771,0.812,0.821,0.797,(4.9708)+(-0.0039)Pro+(0.1460)Ile+(-0.0657)Leu+(-0.1450)Trp;0.826,0.849,0.806,0.816,0.809,0.770,0.797,0.798,(3.3064)+(-0.0084)Val+(0.0116)Orn+(0.0776)Phe+(-0.1620)Trp;0.826,0.842,0.716,0.678,0.690,0.828,0.790,0.747,(2.4994)+(0.0345)Ser+(-0.1225)His+(-0.0289)Val+(0.1190)Ile;0.826,0.845,0.795,0.793,0.800,0.835,0.762,0.797,(8.2697)+(0.0003)Gly+(-0.0934)His+(0.0209)Thr+(-0.1063)Trp;0.826,0.851,0.813,0.827,0.811,0.771,0.810,0.805,(2.5428)+(0.0024)Gln+(-0.0073)Val+(0.0802)Phe+(-0.1689)Trp;0.826,0.844,0.724,0.693,0.719,0.804,0.760,0.744,(-0.0269)+(0.0379)Ser+(0.0042)Gln+(-0.1801)His+(0.0873)Phe;0.826,0.846,0.796,0.786,0.742,0.867,0.884,0.820,(4.8910)+(-0.0055)Ala+(-0.0528)Val+(-0.2382)Met+(0.1962)Ile;0.826,0.847,0.785,0.764,0.754,0.849,0.858,0.806,(6.4465)+(-0.0623)His+(-0.0425)Val+(-0.2014)Met+(0.1680)Ile;0.826,0.847,0.751,0.730,0.749,0.797,0.774,0.762,(1.9569)+(0.0345)Ser+(-0.0151)Lys+(0.0633)Ile+(-0.1628)Trp;0.826,0.845,0.759,0.734,0.761,0.778,0.808,0.770,(1.8343)+(0.0391)Ser+(-0.0078)Gly+(0.0503)Ile+(-0.1780)Trp;0.826,0.852,0.813,0.816,0.826,0.783,0.799,0.806,(4.7103)+(-0.1025)Asn+(0.0179)Thr+(0.0754)Phe+(-0.1634)Trp;0.826,0.841,0.721,0.678,0.716,0.823,0.771,0.747,(1.3899)+(0.0338)Ser+(0.0043)Gln+(-0.1663)His+(0.0516)Ile;0.826,0.846,0.782,0.771,0.805,0.819,0.738,0.783,(3.9934)+(0.0327)Ser+(-0

.0816)Cit+(0.0184)Leu+(-0.1713)Trp;0.826,0.847,0.788,0.762,0.804,0.818,0.798,0.796,(7.8351)+(-0.1031)His+(0.0312)Orn+(0.0199)Leu+(-0.1126)Trp;0.825,0.845,0.796,0.786,0.825,0.790,0.765,0.792,(4.2249)+(0.0140)Thr+(-0.0971)Cit+(0.0876)Phe+(-0.1863)Trp;0.825,0.839,0.716,0.677,0.717,0.799,0.760,0.738,(0.8595)+(0.0474)Ser+(-0.0029)Gly+(-0.1674)His+(0.0891)Phe;0.825,0.849,0.796,0.807,0.800,0.838,0.731,0.794,(3.8520)+(0.0340)Ser+(-0.1511)Met+(0.0222)Orn+(-0.1358)Trp;0.825,0.839,0.768,0.750,0.719,0.839,0.869,0.794,(5.6712)+(-0.0866)His+(-0.0066)Ala+(-0.0356)Val+(0.1435)Ile;0.825,0.850,0.816,0.819,0.826,0.777,0.811,0.808,(3.7488)+(0.0077)Pro+(-0.2244)Met+(0.1082)Phe+(-0.1441)Trp;0.825,0.847,0.786,0.786,0.793,0.820,0.749,0.787,(2.9723)+(0.0407)Ser+(-0.1830)Met+(0.0237)Leu+(-0.1459)Trp;0.825,0.844,0.779,0.764,0.740,0.851,0.850,0.801,(4.2474)+(-0.0569)Val+(-0.2918)Met+(0.0254)Orn+(0.1891)Ile;0.825,0.848,0.801,0.792,0.781,0.809,0.863,0.811,(3.4695)+(-0.0094)Ala+(0.0570)Ile+(0.0568)Phe+(-0.1709)Trp;0.825,0.848,0.832,0.843,0.838,0.792,0.821,0.823,(4.0106)+(-0.0055)Val+(-0.1937)Met+(0.1205)Phe+(-0.1359)Trp;0.825,0.846,0.796,0.792,0.803,0.833,0.768,0.799,(8.2465)+(-0.0944)His+(0.0205)Thr+(0.0050)Tyr+(-0.1083)Trp;0.825,0.845,0.799,0.809,0.799,0.840,0.742,0.798,(5.0944)+(0.0351)Ser+(-0.1065)Asn+(0.0084)Thr+(-0.1374)Trp;0.825,0.839,0.715,0.663,0.715,0.816,0.778,0.743,(2.2774)+(0.0451)Ser+(-0.0039)Gly+(-0.1532)His+(0.0536)Ile;0.824,0.842,0.804,0.817,0.803,0.846,0.741,0.802,(4.3447)+(0.0349)Ser+(-0.0002)Ala+(-0.1279)Met+(-0.1326)Trp;0.824,0.845,0.814,0.821,0.810,0.839,0.787,0.814,(4.6255)+(0.0454)Ser+(-0.0076)Gly+(-0.1269)Met+(-0.1326)Trp;0.824,0.842,0.813,0.805,0.840,0.835,0.762,0.811,(7.9934)+(-0.0506)Asn+(-0.1077)Cit+(0.0583)Orn+(-0.1443)Trp;0.824,0.844,0.829,0.837,0.838,0.791,0.820,0.821,(4.2708)+(-0.0186)Asn+(-0.1817)Met+(0.1099)Phe+(-0.1408)Trp;0.824,0.843,0.802,0.815,0.804,0.837,0.740,0.799,(4.1442)+(0.0340)Ser+(-0

.1451)Met+(0.0047)Lys+(-0.1372)Trp;0.824,0.843,0.802,0.814,0.799,0.834,0.755,0.800,(4.8290)+(0.0376)Ser+(-0.1001)Asn+(0.0030)Lys+(-0.1352)Trp;0.824,0.843,0.793,0.783,0.804,0.828,0.769,0.796,(7.7986)+(0.0020)Gly+(-0.0922)His+(0.0361)Orn+
(-0.0980)Trp;0.824,0.845,0.795,0.781,0.807,0.823,0.784,0.799,(7.9900)+(-0.0956)His+(0.0047)Val+(0.0337)Orn+(-0.1050)Trp;0.824,0.842,0.744,0.714,0.709,0.805,0.848,0.769,(3.8311)+(-0.1147)His+(-0.0364)Val+(0.1156)Ile+(0.0627)Phe;0.824,0.846,0.794,0.773,0.782,0.847,0.838,0.810,(3.0854)+(0.0111)Gln+(-0.1404)His+(-0.1937)Met+(0.0647)Ile;0.824,0.847,0.812,0.828,0.809,0.847,0.752,0.809,(3.5073)+(0.0315)Ser+(0.0032)Gln+(-0.1476)Met+(-0.1366)Trp;0.823,0.840,0.749,0.733,0.692,0.855,0.830,0.778,(2.6416)+(0.0435)Ser+(-0.1848)Asn+(-0.0564)Val+(0.1742)Ile;0.823,0.842,0.751,0.733,0.748,0.785,0.783,0.762,(1.3069)+(0.0339)Ser+(-0.0098)Thr+(0.0550)Ile+(-0.1714)Trp;0.823,0.844,0.796,0.798,0.805,0.835,0.748,0.796,(8.7711)+(-0.0909)His+(0.0252)Thr+(-0.0126)Arg+(-0.1062)Trp;0.823,0.847,0.811,0.820,0.813,0.770,0.810,0.803,(3.4357)+(-0.0000)Gly+(-0.0070)Val+(0.0829)Phe+(-0.1635)Trp;0.823,0.848,0.758,0.725,0.766,0.826,0.780,0.774,(5.8041)+(-0.1283)His+(0.0327)Thr+(-0.2487)Met+(0.0694)Ile;0.823,0.848,0.809,0.817,0.793,0.788,0.838,0.809,(3.6329)+(-0.0084)Ala+(0.0088)Pro+(0.0794)Phe+(-0.1620)Trp;0.823,0.849,0.799,0.800,0.815,0.768,0.785,0.792,(3.4271)+(0.0104)Thr+(-0.0090)Lys+(0.0753)Phe+(-0.1737)Trp;0.823,0.843,0.793,0.795,0.811,0.835,0.719,0.790,(4.8416)+(0.0291)Ser+(0.0048)Thr+(-0.0742)Cit+(-0.1554)Trp;0.823,0.845,0.836,0.843,0.830,0.813,0.846,0.833,(4.8475)+(-0.0576)Asn+(-0.0048)Ala+(0.0879)Phe+(-0.1481)Trp;0.823,0.843,0.814,0.817,0.809,0.836,0.799,0.815,(5.2563)+(0.0481)Ser+(-0.0913)Asn+(-0.0073)Gly+(-0.1336)Trp;0.823,0.842,0.803,0.809,0.811,0.850,0.741,0.803,(5.0720)+(0.0313)Ser+(-0.0023)Ala+(-0.0684)Cit+(-0.1435)Trp;0.823,0.847,0.810,0.816,0.805,0.7

95,0.815,0.808,(3.3924)+(0.0108)Thr+(-0.0071)Ala+(0.0812)Phe+(-0.1693)Trp;0.823,0.843,0.816,0.824,0.840,0.842,0.725,0.808,(7.7700)+(0.0280)Thr+(-0.0628)Cit+(-0.1480)Met+(-0.1411)Trp;0.823,0.840,0.781,0.764,0.794,0.808,0.779,0.786,(5.3945)+(0.0040)Gly+(-0.0885)Cit+(0.0647)Ile+(-0.1744)Trp;0.823,0.846,0.811,0.815,0.817,0.854,0.756,0.810,(3.7672)+(0.0377)Ser+(0.0329)Tyr+(-0.1848)Met+(-0.1427)Trp;0.822,0.841,0.781,0.786,0.762,0.834,0.769,0.788,(3.4525)+(0.0283)Ser+(-0.0071)Ala+(0.0112)Pro+(-0.1448)Trp;0.822,0.836,0.713,0.680,0.711,0.799,0.742,0.733,(0.7961)+(0.0431)Ser+(-0.1648)His+(-0.0035)Val+(0.0969)Phe;0.822,0.841,0.746,0.719,0.725,0.795,0.827,0.767,(3.5737)+(-0.1257)His+(0.1043)Ile+(-0.0558)Leu+(0.0707)Phe;0.822,0.844,0.802,0.793,0.807,0.832,0.790,0.806,(8.1624)+(-0.0874)His+(-0.0014)Ala+(0.0381)Orn+(-0.0971)Trp;0.822,0.839,0.797,0.787,0.826,0.822,0.742,0.794,(6.6466)+(-0.1136)Cit+(0.0053)Pro+(0.0516)Orn+(-0.1628)Trp;0.822,0.840,0.793,0.775,0.804,0.806,0.808,0.798,(5.9868)+(-0.0815)Cit+(0.0013)Pro+(0.0607)Ile+(-0.1730)Trp;0.822,0.847,0.819,0.827,0.827,0.778,0.812,0.811,(4.4054)+(-0.0721)Asn+(0.0019)Gly+(0.0801)Phe+(-0.1554)Trp;0.822,0.842,0.804,0.789,0.812,0.817,0.818,0.809,(6.8072)+(-0.0327)Asn+(-0.0753)Cit+(0.0612)Ile+(-0.1629)Trp;0.822,0.847,0.822,0.831,0.832,0.787,0.801,0.813,(3.4599)+(0.0022)Gly+(-0.2067)Met+(0.1140)Phe+(-0.1427)Trp;0.822,0.838,0.811,0.804,0.832,0.841,0.760,0.809,(7.3871)+(-0.0047)Ala+(-0.1128)Cit+(0.0607)Orn+(-0.1448)Trp;0.822,0.843,0.794,0.781,0.804,0.824,0.782,0.798,(7.7222)+(-0.0961)His+(0.0329)Orn+(0.0072)Lys+(-0.1051)Trp;0.822,0.845,0.802,0.793,0.810,0.830,0.786,0.805,(8.2801)+(-0.0150)Asn+(-0.0858)His+(0.0377)Orn+(-0.0977)Trp;0.822,0.840,0.746,0.728,0.746,0.776,0.771,0.755,(1.5426)+(0.0288)Ser+(-0.0073)Orn+(0.0543)Ile+(-0.1783)Trp;0.822,0.845,0.753,0.740,0.757,0.799,0.746,0.761,(2.0871)+(0.0350)Ser+(-0.0260)Arg+(0.0585)Ile+(-0.1705)Trp;0.822,0.841,0.789,0.785,0.812,0.82

6,0.726,0.787,(4.3822)+(0.0320)Ser+(-0.0794)Cit+(0.0060)Val+(-0.1629)Trp;0.822,0.840,0.795,0.783,0.783,0.822,0.835,0.805,(2.3417)+(-0.0780)Asn+(0.0116)Gln+(-0.1598)His+(0.0775)Phe;0.821,0.844,0.804,0.813,0.802,0.840,0.759,0.803,(4.7828)+(0.0384)Ser+(-0.0983)Asn+(0.0068)Tyr+(-0.1350)Trp;0.821,0.848,0.813,0.822,0.816,0.774,0.811,0.806,(3.5653)+(-0.0064)Val+(-0.0026)Lys+(0.0847)Phe+(-0.1614)Trp;0.821,0.838,0.798,0.791,0.830,0.828,0.732,0.795,(6.6189)+(0.0070)Thr+(-0.1126)Cit+(0.0506)Orn+(-0.1639)Trp;0.821,0.845,0.792,0.791,0.777,0.812,0.812,0.798,(5.8598)+(-0.0193)Arg+(0.1507)Ile+(-0.0691)Leu+(-0.1367)Trp;0.821,0.843,0.801,0.812,0.799,0.836,0.753,0.800,(4.7908)+(0.0383)Ser+(-0.0950)Asn+(0.0013)Val+(-0.1345)Trp;0.821,0.843,0.817,0.815,0.834,0.801,0.802,0.813,(4.9214)+(-0.0877)Cit+(-0.0042)Lys+(0.0951)Phe+(-0.1677)Trp;0.821,0.841,0.707,0.666,0.711,0.799,0.740,0.729,(0.6425)+(0.0422)Ser+(-0.1707)His+(0.0097)Orn+(0.0874)Phe;0.821,0.839,0.782,0.758,0.755,0.850,0.854,0.804,(3.4009)+(0.0083)Gln+(-0.1498)His+(-0.0065)Ala+(0.0558)Ile;0.821,0.837,0.707,0.668,0.709,0.794,0.742,0.728,(0.6625)+(0.0434)Ser+(-0.1693)His+(0.0012)Pro+(0.0895)Phe;0.821,0.840,0.792,0.785,0.745,0.860,0.861,0.812,(3.2291)+(0.0039)Gln+(-0.0540)Val+(-0.3077)Met+(0.1887)Ile;0.821,0.838,0.707,0.668,0.709,0.796,0.745,0.729,(0.6638)+(0.0436)Ser+(-0.1704)His+(0.0029)Leu+(0.0876)Phe;0.821,0.847,0.824,0.834,0.813,0.798,0.841,0.822,(2.5743)+(0.0032)Gln+(-0.0066)Ala+(0.0806)Phe+(-0.1673)Trp;0.821,0.850,0.815,0.823,0.820,0.773,0.816,0.808,(2.5403)+(0.0031)Gln+(-0.0073)Lys+(0.0744)Phe+(-0.1724)Trp;0.821,0.844,0.800,0.793,0.801,0.773,0.838,0.801,(4.3282)+(-0.0658)Asn+(0.0395)Ile+(0.0549)Phe+(-0.1688)Trp;0.821,0.843,0.786,0.776,0.742,0.849,0.859,0.807,(4.3158)+(-0.0570)Val+(-0.3044)Met+(0.0078)Lys+(0.1925)Ile;0.821,0.840,0.803,0.801,0.798,0.826,0.803,0.807,(8.6130)+(-0.0758)His+(-0.0035)Ala+(0.0116)Pro+(-0.0986)Trp;0.821,0.845,0.817,0.818,0.830,0.796,0.8

04,0.812,(3.0066)+(0.0045)Gln+(-0.0964)Cit+(0.0862)Phe+(-0.1806)Trp;0.821,0.839,0.798,0.780,0.808,0.814,0.816,0.804,(6.4963)+(-0.0800)Cit+(-0.0063)Lys+(0.0668)Ile+(-0.1650)Trp;0.821,0.844,0.799,0.784,0.824,0.837,0.760,0.801,(8.4227)+(-0.0693)His+(-0.0798)Cit+(0.0587)Orn+(-0.1115)Trp;0.821,0.841,0.804,0.817,0.804,0.843,0.744,0.802,(5.0975)+(0.0394)Ser+(-0.0859)Asn+(-0.0090)Arg+(-0.1298)Trp;0.821,0.846,0.826,0.832,0.833,0.781,0.825,0.818,(4.7404)+(-0.0676)Asn+(-0.0021)Leu+(0.0802)Phe+(-0.1539)Trp;0.821,0.837,0.708,0.659,0.708,0.815,0.759,0.735,(2.1978)+(0.0395)Ser+(-0.1543)His+(-0.0018)Pro+(0.0571)Ile;0.821,0.849,0.818,0.821,0.827,0.773,0.824,0.811,(4.6563)+(-0.0699)Asn+(0.0034)Pro+(0.0750)Phe+(-0.1574)Trp;0.821,0.843,0.826,0.828,0.829,0.817,0.824,0.825,(4.9871)+(-0.0055)Ala+(-0.0855)Cit+(0.1039)Phe+(-0.1612)Trp;0.821,0.839,0.808,0.803,0.833,0.830,0.751,0.804,(5.5816)+(0.0035)Gln+(-0.1140)Cit+(0.0498)Orn+(-0.1651)Trp;0.821,0.842,0.803,0.816,0.806,0.844,0.732,0.800,(4.5256)+(0.0364)Ser+(-0.0086)Arg+(-0.1186)Met+(-0.1304)Trp;0.821,0.837,0.711,0.673,0.712,0.798,0.745,0.732,(0.6824)+(0.0442)Ser+(-0.1678)His+(-0.0016)Thr+(0.0916)Phe;0.821,0.840,0.791,0.789,0.793,0.818,0.770,0.793,(8.0410)+(0.0028)Gly+(-0.0842)His+(0.0085)Pro+(-0.0999)Trp;0.821,0.838,0.803,0.795,0.835,0.830,0.740,0.800,(7.2015)+(-0.1128)Cit+(0.0582)Orn+(-0.0045)Lys+(-0.1516)Trp;0.821,0.843,0.797,0.786,0.806,0.827,0.785,0.801,(7.9860)+(-0.0911)His+(0.0054)Tyr+(0.0356)Orn+(-0.1010)Trp;0.820,0.841,0.739,0.717,0.743,0.777,0.762,0.750,(1.8760)+(0.0309)Ser+(-0.0018)Gln+(0.0529)Ile+(-0.1751)Trp;0.820,0.844,0.822,0.828,0.832,0.788,0.807,0.814,(3.7571)+(-0.2062)Met+(0.0121)Orn+(0.1044)Phe+(-0.1418)Trp;0.820,0.843,0.787,0.789,0.788,0.818,0.759,0.789,(4.0203)+(0.0409)Ser+(-0.1056)Asn+(0.0150)Leu+(-0.1436)Trp;0.820,0.846,0.819,0.824,0.827,0.780,0.815,0.812,(4.6656)+(-0.0728)Asn+(0.0119)Orn+(0.0709)Phe+(-0.1547)Trp;0.820,0.845,0.833,0.841,0.836,0.801,0.

829,0.827,(4.0312)+(-0.0024)Ala+(-0.1819)Met+(0.1131)Phe+(-0.1403)Trp
;0.820,0.841,0.803,0.795,0.822,0.782,0.797,0.799,(4.5507)+(-0.0914)Ci
t+(0.0052)Pro+(0.0855)Phe+(-0.1756)Trp;0.820,0.840,0.792,0.784,0.798,
0.809,0.793,0.796,(7.8709)+(-0.0898)His+(0.0076)Pro+(0.0095)Lys+(-0.1
092)Trp;0.820,0.841,0.796,0.799,0.811,0.839,0.726,0.794,(4.9275)+(0.0
317)Ser+(-0.0703)Cit+(-0.0017)Lys+(-0.1483)Trp;0.820,0.838,0.720,0.68
8,0.730,0.802,0.727,0.737,(0.9230)+(0.0488)Ser+(-0.1613)His+(-0.0224)
Arg+(0.1010)Phe;0.820,0.837,0.708,0.659,0.708,0.814,0.760,0.735,(2.10
04)+(0.0413)Ser+(-0.1519)His+(-0.0037)Thr+(0.0557)Ile;0.820,0.842,0.8
02,0.806,0.815,0.840,0.735,0.799,(4.1992)+(0.0279)Ser+(0.0024)Gln+(-0
.0755)Cit+(-0.1555)Trp;0.820,0.838,0.790,0.771,0.799,0.810,0.810,0.79
7,(8.1128)+(-0.0944)His+(0.0055)Pro+(0.0210)Leu+(-0.1135)Trp;0.820,0.
844,0.826,0.835,0.818,0.800,0.835,0.822,(3.7508)+(-0.0053)Ala+(-0.004
1)Val+(0.0896)Phe+(-0.1563)Trp;0.820,0.835,0.796,0.791,0.826,0.826,0.
727,0.792,(6.5880)+(0.0017)Gly+(-0.1135)Cit+(0.0543)Orn+(-0.1581)Trp;
0.820,0.842,0.746,0.738,0.740,0.778,0.758,0.754,(2.0254)+(0.0284)Ser+
(-0.0242)Tyr+(0.0558)Ile+(-0.1671)Trp;0.820,0.839,0.793,0.775,0.804,0
.806,0.808,0.798,(5.9893)+(-0.0812)Cit+(0.0007)Arg+(0.0620)Ile+(-0.17
26)Trp;0.819,0.840,0.814,0.814,0.829,0.791,0.800,0.809,(4.6843)+(-0.0
860)Cit+(-0.0021)Val+(0.0935)Phe+(-0.1689)Trp;0.819,0.840,0.747,0.731
,0.747,0.782,0.766,0.757,(1.5135)+(0.0281)Ser+(-0.0027)Pro+(0.0546)Il
e+(-0.1775)Trp;0.819,0.842,0.795,0.805,0.800,0.833,0.734,0.793,(3.834
4)+(0.0366)Ser+(0.0051)Val+(-0.1446)Met+(-0.1402)Trp;0.819,0.842,0.80
8,0.792,0.818,0.821,0.821,0.813,(6.6752)+(-0.0659)Cit+(-0.1095)Met+(0
.0690)Ile+(-0.1520)Trp;0.819,0.836,0.784,0.760,0.770,0.836,0.837,0.80
1,(3.4714)+(-0.0644)Asn+(0.0107)Gln+(-0.1505)His+(0.0434)Ile;0.819,0.
841,0.780,0.768,0.737,0.849,0.850,0.801,(4.3739)+(0.0021)Gly+(-0.0544
)Val+(-0.2823)Met+(0.1909)Ile;0.819,0.837,0.781,0.763,0.744,0.845,0.8

56,0.802,(5.8218)+(-0.0986)His+(-0.0072)Ala+(0.1275)Ile+(-0.0490)Leu;0.819,0.845,0.797,0.801,0.807,0.753,0.795,0.789,(2.4413)+(0.0018)Gln+(0.0038)Thr+(0.0659)Phe+(-0.1813)Trp;0.819,0.840,0.795,0.807,0.806,0.810,0.726,0.787,(6.4477)+(0.0236)Thr+(0.0085)Pro+(-0.1986)Met+(-0.1414)Trp;0.819,0.835,0.801,0.794,0.831,0.824,0.740,0.797,(6.8299)+(-0.1115)Cit+(0.0001)Val+(0.0545)Orn+(-0.1579)Trp;0.819,0.837,0.712,0.669,0.719,0.819,0.738,0.736,(2.4734)+(0.0444)Ser+(-0.1468)His+(-0.0188)Arg+(0.0578)Ile;0.819,0.845,0.790,0.777,0.751,0.855,0.861,0.811,(5.1987)+(-0.0400)Cit+(-0.0526)Val+(-0.2529)Met+(0.1872)Ile;0.819,0.835,0.783,0.768,0.792,0.817,0.781,0.789,(7.7903)+(0.0040)Gly+(-0.1008)His+(0.0259)Leu+(-0.1106)Trp;0.819,0.837,0.797,0.787,0.804,0.812,0.795,0.800,(8.2935)+(-0.0874)His+(0.0069)Pro+(0.0056)Val+(-0.1076)Trp;0.819,0.846,0.806,0.814,0.811,0.759,0.8

06,0.798,(2.4211)+(0.0023)Gln+(-0.0027)Leu+(0.0696)Phe+(-0.1766)Trp;0.819,0.844,0.807,0.814,0.813,0.757,0.814,0.799,(2.5496)+(-0.0011)Gly+(0.0024)Gln+(0.0660)Phe+(-0.1783)Trp;0.819,0.838,0.710,0.674,0.703,0.807,0.752,0.734,(2.6390)+(0.0390)Ser+(-0.1448)His+(-0.0245)Tyr+(0.0606)Ile;0.819,0.837,0.808,0.801,0.837,0.834,0.749,0.805,(7.3107)+(-0.1036)Cit+(-0.0665)Met+(0.0563)Orn+(-0.1431)Trp;0.819,0.842,0.778,0.768,0.783,0.745,0.815,0.778,(2.3450)+(0.0015)Gln+(0.0396)Ile+(0.0442)Phe+(-0.1894)Trp;0.819,0.840,0.802,0.800,0.813,0.831,0.765,0.802,(4.9203)+(0.0384)Ser+(-0.0055)Gly+(-0.0648)Cit+(-0.1503)Trp;0.819,0.841,0.789,0.778,0.743,0.854,0.866,0.810,(5.4149)+(-0.0352)Asn+(-0.0549)Val+(-0.2354)Met+(0.1889)Ile;0.818,0.841,0.787,0.771,0.747,0.851,0.864,0.808,(4.4779)+(0.0172)Tyr+(-0.0562)Val+(-0.3039)Met+(0.1932)Ile;0.818,0.837,0.784,0.773,0.740,0.852,0.853,0.805,(4.7133)+(-0.0495)Val+(-0.2688)Met+(0.2025)Ile+(-0.0173)Leu;0.818,0.846,0.800,0.808,0.804,0.752,0.805,0.792,(2.4110)+(0.0021)Gln+(0.0014)Pro+(0.0657)Phe+(-0.1794)Trp;0.

818,0.843,0.816,0.821,0.811,0.795,0.828,0.814,(3.6151)+(-0.0064)Ala+(0.0105)Orn+(0.0767)Phe+(-0.1602)Trp;0.818,0.844,0.821,0.828,0.814,0.797,0.832,0.818,(3.6279)+(0.0004)Gly+(-0.0060)Ala+(0.0838)Phe+(-0.1610)Trp;0.818,0.844,0.786,0.771,0.790,0.766,0.831,0.789,(3.4864)+(-0.0111)Lys+(0.0475)Ile+(0.0550)Phe+(-0.1761)Trp;0.818,0.842,0.777,0.794,0.779,0.742,0.755,0.767,(3.1694)+(0.0120)Thr+(-0.0445)Tyr+(0.0907)Phe+(-0.1687)Trp;0.818,0.842,0.795,0.796,0.812,0.836,0.727,0.793,(4.7061)+(0.0312)Ser+(-0.0726)Cit+(0.0049)Tyr+(-0.1536)Trp;0.818,0.840,0.796,0.799,0.812,0.839,0.725,0.794,(4.9229)+(0.0319)Ser+(-0.0672)Cit+(-0.0046)Arg+(-0.1489)Trp;0.818,0.835,0.755,0.726,0.742,0.808,0.824,0.775,(1.8011)+(0.0083)Gln+(-0.1742)His+(0.0298)Ile+(0.0498)Phe;0.818,0.836,0.796,0.784,0.827,0.815,0.749,0.794,(6.5469)+(-0.1141)Cit+(0.0515)Orn+(0.0098)Leu+(-0.1682)Trp;0.818,0.843,0.792,0.797,0.819,0.760,0.749,0.781,(3.7422)+(0.0153)Thr+(-0.0270)Arg+(0.0783)Phe+(-0.1803)Trp;0.818,0.845,0.802,0.794,0.811,0.833,0.782,0.805,(8.1896)+(-0.0845)His+(-0.0339)Met+(0.0384)Orn+(-0.0957)Trp;0.818,0.838,0.704,0.653,0.707,0.816,0.754,0.732,(2.1105)+(0.0385)Ser+(-0.1565)His+(0.0077)Orn+(0.0522)Ile;0.818,0.838,0.801,0.797,0.803,0.816,0.795,0.803,(8.5784)+(-0.0102)Asn+(-0.0777)His+(0.0086)Pro+(-0.1004)Trp;0.817,0.839,0.798,0.799,0.819,0.787,0.762,0.792,(4.0024)+(0.0037)Gly+(-0.0942)Cit+(0.0934)Phe+(-0.1738)Trp;0.817,0.843,0.798,0.818,0.791,0.752,0.792,0.788,(2.4214)+(0.0031)Gln+(-0.0376)Tyr+(0.0880)Phe+(-0.1667)Trp;0.817,0.837,0.792,0.776,0.800,0.809,0.805,0.798,(6.1603)+(-0.0786)Cit+(-0.0073)Tyr+(0.0630)Ile+(-0.1686)Trp;0.817,0.842,0.798,0.802,0.808,0.750,0.803,0.791,(3.2524)+(-0.0003)Gly+(0.0022)Pro+(0.0673)Phe+(-0.1748)Trp;0.817,0.844,0.826,0.833,0.837,0.780,0.815,0.816,(4.8783)+(-0.0571)Asn+(-0.0093)Arg+(0.0818)Phe+(-0.1554)Trp;0.817,0.842,0.790,0.792,0.805,0.747,0.786,0.783,(3.0209)+(0.0052)Thr+(0.0012)Pro+(0.0661)Phe+(-0.1793)Trp;0.817,

0.839,0.812,0.810,0.829,0.787,0.797,0.806,(4.6997)+(-0.0867)Cit+(-0.0013)Arg+(0.0906)Phe+(-0.1716)Trp;0.817,0.837,0.818,0.824,0.839,0.837,0.745,0.811,(8.3908)+(-0.0711)Asn+(0.0226)Thr+(-0.0679)Cit+(-0.1462)Trp;0.817,0.842,0.795,0.795,0.810,0.750,0.794,0.787,(3.2765)+(-0.0014)Gly+(0.0069)Thr+(0.0658)Phe+(-0.1792)Trp;0.817,0.841,0.782,0.771,0.739,0.847,0.856,0.803,(4.6877)+(0.0034)Pro+(-0.0546)Val+(-0.2834)Met+(0.1866)Ile;0.817,0.844,0.799,0.804,0.807,0.752,0.800,0.791,(3.2164)+(0.0025)Pro+(-0.0031)Leu+(0.0702)Phe+(-0.1726)Trp;0.817,0.839,0.816,0.834,0.821,0.833,0.743,0.808,(5.1219)+(0.0047)Gln+(0.0218)Thr+(-0.1900)Met+(-0.1459)Trp;0.817,0.844,0.794,0.798,0.807,0.753,0.785,0.786,(3.0698)+(0.0060)Thr+(-0.0028)Leu+(0.0697)Phe+(-0.1769)Trp;0.817,0.838,0.809,0.805,0.803,0.815,0.828,0.813,(3.7503)+(0.0055)Gln+(-0.2027)Met+(0.0651)Ile+(-0.1494)Trp;0.817,0.843,0.825,0.831,0.834,0.784,0.817,0.816,(3.8804)+(-0.2014)Met+(0.0028)Leu+(0.1088)Phe+(-0.1444)Trp;0.817,0.839,0.774,0.762,0.781,0.743,0.814,0.775,(2.9276)+(-0.0001)Gly+(0.0405)Ile+(0.0455)Phe+(-0.1859)Trp;0.817,0.839,0.809,0.804,0.827,0.786,0.799,0.804,(4.6225)+(-0.0886)Cit+(0.0037)Leu+(0.0868)Phe+(-0.1750)Trp;0.817,0.837,0.787,0.776,0.763,0.831,0.837,0.802,(2.2663)+(0.0089)Gln+(-0.1642)His+(-0.0045)Ala+(0.0782)Phe;0.817,0.846,0.803,0.806,0.814,0.763,0.804,0.797,(3.5025)+(0.0027)Pro+(-0.0056)Lys+(0.0734)Phe+(-0.1691)Trp;0.817,0.842,0.796,0.799,0.806,0.750,0.798,0.788,(3.1515)+(0.0018)Pro+(0.0040)Orn+(0.0651)Phe+(-0.1748)Trp;0.817,0.844,0.822,0.828,0.830,0.773,0.825,0.814,(4.6894)+(-0.0697)Asn+(0.0012)Lys+(0.0772)Phe+(-0.1565)Trp;0.817,0.843,0.821,0.830,0.831,0.776,0.811,0.812,(3.6313)+(-0.2158)Met+(0.0056)Lys+(0.1086)Phe+(-0.1471)Trp;0.817,0.843,0.827,0.835,0.836,0.787,0.813,0.818,(4.0199)+(-0.0030)Arg+(-0.1938)Met+(0.1115)Phe+(-0.1425)Trp;0.817,0.833,0.709,0.660,0.715,0.816,0.746,0.734,(2.3089)+(0.0414)Ser+(-0.1445)His+(-0.0406)Cit+(0.0570)Ile;0.817,0.83

5,0.811,0.825,0.825,0.825,0.735,0.802,(7.4658)+(-0.0458)Asn+(0.0267)Thr+(-0.1335)Met+(-0.1382)Trp;0.816,0.842,0.804,0.824,0.798,0.761,0.794,0.794,(3.6487)+(-0.0319)Tyr+(-0.0061)Val+(0.1000)Phe+(-0.1528)Trp;0.816,0.842,0.784,0.800,0.779,0.738,0.781,0.775,(3.4300)+(0.0048)Pro+(-0.0388)Tyr+(0.0875)Phe+(-0.1622)Trp;0.816,0.833,0.767,0.750,0.756,0.839,0.787,0.783,(2.9524)+(0.0361)Ser+(-0.0059)Gly+(0.0065)Gln+(-0.1506)His;0.816,0.845,0.802,0.809,0.809,0.757,0.805,0.795,(2.4243)+(0.0021)Gln+(0.0019)Orn+(0.0658)Phe+(-0.1785)Trp;0.816,0.842,0.792,0.794,0.805,0.751,0.788,0.784,(3.0333)+(0.0054)Thr+(0.0017)Orn+(0.0660)Phe+(-0.1787)Trp;0.816,0.837,0.774,0.772,0.752,0.803,0.804,0.783,(2.1541)+(0.0090)Gln+(-0.1616)His+(-0.0425)Tyr+(0.0965)Phe;0.816,0.836,0.795,0.785,0.774,0.817,0.852,0.807,(5.0005)+(-0.0095)Ala+(0.0053)Pro+(0.0631)Ile+(-0.1567)Trp;0.816,0.845,0.805,0.809,0.815,0.767,0.799,0.797,(3.5182)+(0.0091)Orn+(-0.0064)Lys+(0.0708)Phe+(-0.1665)Trp;0.816,0.834,0.776,0.759,0.764,0.814,0.819,0.789,(2.2648)+(0.0094)Gln+(-0.1690)His+(-0.0069)Lys+(0.0763)Phe;0.816,0.836,0.801,0.794,0.832,0.826,0.738,0.798,(6.9766)+(-0.1092)Cit+(-0.0036)Arg+(0.0554)Orn+(-0.1563)Trp;0.816,0.840,0.799,0.803,0.810,0.753,0.799,0.791,(3.2922)+(-0.0005)Gly+(0.0056)Orn+(0.0655)Phe+(-0.1733)Trp;0.816,0.841,0.797,0.788,0.809,0.828,0.775,0.800,(8.2720)+(-0.0875)His+(-0.0064)Arg+(0.0391)Orn+(-0.0980)Trp;0.816,0.844,0.818,0.829,0.827,0.774,0.799,0.807,(2.5685)+(0.0042)Gln+(-0.0228)Arg+(0.0772)Phe+(-0.1758)Trp;0.816,0.840,0.772,0.759,0.781,0.742,0.809,0.773,(2.8028)+(0.0026)Thr+(0.0397)Ile+(0.0449)Phe+(-0.1881)Trp;0.816,0.840,0.771,0.773,0.763,0.744,0.805,0.771,(3.2319)+(-0.0388)Tyr+(0.0434)Ile+(0.0670)Phe+(-0.1733)Trp;0.816,0.838,0.776,0.763,0.783,0.745,0.821,0.778,(2.9617)+(-0.0060)Orn+(0.0424)Ile+(0.0488)Phe+(-0.1866)Trp;0.816,0.832,0.760,0.737,0.737,0.824,0.820,0.780,(3.1450)+(0.0073)Gln+(-0.1412)His+(0.0960)Ile+(-0.0379)Leu;0.816,0.835,0.7

99,0.793,0.804,0.816,0.794,0.802,(8.3239)+(-0.0827)His+(0.0077)Pro+(0.0077)Tyr+(-0.1038)Trp;0.816,0.837,0.814,0.812,0.806,0.809,0.840,0.817,(4.2955)+(-0.0872)Asn+(0.0055)Gln+(0.0477)Ile+(-0.1600)Trp;0.816,0.835,0.785,0.781,0.772,0.858,0.769,0.795,(3.3460)+(0.0340)Ser+(-0.0879)Asn+(0.0084)Gln+(-0.1328)His;0.816,0.842,0.800,0.805,0.809,0.757,0.795,0.792,(3.2198)+(0.0062)Orn+(-0.0030)Leu+(0.0684)Phe+(-0.1712)Trp;0.816,0.842,0.803,0.808,0.814,0.755,0.803,0.795,(3.3373)+(-0.0002)Gly+(-0.0019)Leu+(0.0715)Phe+(-0.1717)Trp;0.815,0.845,0.808,0.813,0.818,0.766,0.806,0.801,(3.5543)+(0.0000)Gly+(-0.0050)Lys+(0.0755)Phe+(-0.1678)Trp;0.815,0.842,0.818,0.822,0.811,0.798,0.836,0.817,(3.6653)+(-0.0064)Ala+(0.0046)Leu+(0.0799)Phe+(-0.1637)Trp;0.815,0.839,0.808,0.815,0.819,0.787,0.786,0.802,(4.7872)+(-0.0837)Cit+(-0.0245)Tyr+(0.1037)Phe+(-0.1626)Trp;0.815,0.836,0.778,0.772,0.779,0.791,0.784,0.782,(3.2510)+(0.0387)Ser+(-0.0084)Gly+(0.0052)Pro+(-0.1578)Trp;0.815,0.842,0.824,0.831,0.817,0.801,0.836,0.822,(3.8272)+(-0.0058)Ala+(-0.0023)Lys+(0.0855)Phe+(-0.1585)Trp;0.815,0.829,0.732,0.700,0.731,0.822,0.751,0.751,(2.0457)+(0.0320)Ser+(0.0054)Gln+(-0.1677)His+(0.0183)Leu;0.815,0.836,0.802,0.796,0.775,0.824,0.856,0.813,(3.8876)+(0.0031)Gln+(-0.0089)Ala+(0.0663)Ile+(-0.1635)Trp;0.815,0.844,0.828,0.834,0.839,0.790,0.819,0.820,(3.8949)+(0.0043)Tyr+(-0.2057)Met+(0.1101)Phe+(-0.1435)Trp;0.815,0.836,0.790,0.779,0.770,0.819,0.839,0.802,(4.7362)+(0.0087)Thr+(-0.0090)Ala+(0.0661)Ile+(-0.1638)Trp;0.815,0.837,0.766,0.760,0.761,0.805,0.765,0.773,(3.0161)+(0.0274)Ser+(-0.0229)Val+(0.0464)Leu+(-0.1591)Trp;0.815,0.834,0.769,0.740,0.743,0.835,0.853,0.793,(4.6064)+(-0.1341)His+(-0.0072)Ala+(0.0453)Ile+(0.0556)Phe;0.815,0.835,0.771,0.756,0.780,0.811,0.762,0.777,(3.6828)+(0.0072)Gly+(-0.1310)His+(-0.1994)Met+(0.1297)Phe;0.815,0.831,0.764,0.745,0.723,0.832,0.849,0.787,(6.4118)+(-0.0589)Asn+(-0.0765)His+(-0.0398)Val+(0.1396)Ile;0.814,0.838,0.747,

0.729,0.753,0.843,0.714,0.760,(3.9919)+(0.0440)Ser+(-0.1143)His+(0.0126)Pro+(-0.1592)Met;0.814,0.837,0.777,0.744,0.784,0.810,0.829,0.792,(4.2846)+(-0.1217)His+(-0.2243)Met+(0.0477)Ile+(0.0942)Phe;0.814,0.834,0.799,0.794,0.827,0.826,0.735,0.796,(6.9713)+(-0.1105)Cit+(-0.0070)Tyr+(0.0559)Orn+(-0.1538)Trp;0.814,0.845,0.808,0.812,0.818,0.766,0.806,0.800,(3.5631)+(-0.0052)Lys+(0.0008)Leu+(0.0749)Phe+(-0.1683)Trp;0.814,0.838,0.783,0.773,0.739,0.849,0.857,0.804,(4.7993)+(-0.0029)Arg+(-0.0544)Val+(-0.2685)Met+(0.1899)Ile;0.814,0.840,0.815,0.830,0.813,0.771,0.810,0.806,(4.7289)+(-0.0585)Asn+(-0.0268)Tyr+(0.0925)Phe+(-0.1473)Trp;0.814,0.844,0.819,0.830,0.826,0.780,0.802,0.810,(4.0493)+(-0.0160)Arg+(-0.0065)Val+(0.0907)Phe+(-0.1591)Trp;0.814,0.838,0.850,0.862,0.851,0.855,0.816,0.846,(6.0237)+(-0.0754)Asn+(0.0086)Gln+(-0.0705)Cit+(-0.1410)Trp;0.814,0.830,0.770,0.756,0.755,0.809,0.812,0.783,(2.1781)+(0.0086)Gln+(-0.1681)His+(-0.0044)Val+(0.0785)Phe;0.814,0.832,0.793,0.787,0.802,0.822,0.768,0.795,(8.1194)+(0.0035)Gly+(-0.0936)His+(0.0088)Val+(-0.1049)Trp;0.814,0.839,0.812,0.827,0.800,0.782,0.818,0.807,(3.7956)+(-0.0049)Ala+(-0.0235)Tyr+(0.0945)Phe+(-0.1539)Trp;0.814,0.838,0.786,0.786,0.773,0.862,0.756,0.794,(3.0692)+(0.0317)Ser+(0.0076)Gln+(-0.1310)His+(-0.1234)Met;0.814,0.832,0.791,0.773,0.800,0.805,0.807,0.797,(8.0392)+(-0.0985)His+(0.0062)Lys+(0.0213)Leu+(-0.1151)Trp;0.814,0.836,0.798,0.795,0.801,0.814,0.787,0.800,(8.4970)+(-0.0796)His+(-0.0022)Arg+(0.0086)Pro+(-0.

1009)Trp;0.814,0.832,0.754,0.733,0.715,0.825,0.838,0.778,(3.6783)+(0.0055)Gln+(-0.1227)His+(-0.0298)Val+(0.1135)Ile;0.814,0.839,0.804,0.800,0.808,0.819,0.793,0.805,(8.5953)+(-0.0732)His+(0.0099)Pro+(-0.0468)Met+(-0.0979)Trp;0.813,0.830,0.774,0.761,0.708,0.860,0.885,0.803,(3.6750)+(-0.0113)Ala+(-0.0708)Cit+(-0.0492)Val+(0.1781)Ile;0.813,0.833,0.795,0.795,0.798,0.818,0.772,0.796,(7.8532)+(0.0026)Gly+(-0.0911)His+

(0.0109)Lys+(-0.1036)Trp;0.813,0.831,0.767,0.739,0.756,0.827,0.822,0.786,(3.3314)+(0.0090)Gln+(-0.1557)His+(-0.0081)Lys+(0.0483)Ile;0.813,0.835,0.808,0.799,0.795,0.824,0.847,0.816,(5.9042)+(-0.0054)Ala+(-0.1299)Met+(0.0744)Ile+(-0.1398)Trp;0.813,0.840,0.755,0.737,0.764,0.848,0.715,0.766,(4.2088)+(0.0378)Ser+(-0.1210)His+(-0.1223)Met+(0.0316)Orn;0.813,0.837,0.790,0.780,0.791,0.796,0.805,0.793,(5.7044)+(-0.0810)Asn+(0.0138)Thr+(0.0470)Ile+(-0.1606)Trp;0.813,0.832,0.711,0.674,0.718,0.798,0.732,0.730,(0.8705)+(0.0447)Ser+(-0.1603)His+(-0.0351)Cit+(0.0938)Phe;0.813,0.836,0.777,0.765,0.784,0.748,0.816,0.778,(2.9742)+(-0.0025)Pro+(0.0432)Ile+(0.0463)Phe+(-0.1850)Trp;0.813,0.834,0.804,0.798,0.812,0.829,0.788,0.807,(8.7544)+(-0.0673)His+(-0.0366)Cit+(0.0095)Pro+(-0.1075)Trp;0.813,0.832,0.799,0.782,0.803,0.822,0.818,0.807,(8.4947)+(-0.0914)His+(-0.0020)Ala+(0.0259)Leu+(-0.1094)Trp;0.813,0.838,0.795,0.812,0.793,0.748,0.787,0.785,(3.5466)+(-0.0339)Tyr+(-0.0009)Leu+(0.0906)Phe+(-0.1600)Trp;0.813,0.830,0.767,0.748,0.755,0.808,0.813,0.781,(2.0217)+(0.0088)Gln+(-0.1733)His+(-0.0004)Pro+(0.0707)Phe;0.813,0.828,0.744,0.723,0.740,0.831,0.743,0.759,(2.4500)+(0.0299)Ser+(0.0059)Gln+(-0.1606)His+(0.0051)Val;0.812,0.833,0.808,0.799,0.789,0.826,0.856,0.818,(5.9288)+(-0.0368)Asn+(-0.0072)Ala+(0.0657)Ile+(-0.1481)Trp;0.812,0.830,0.767,0.748,0.755,0.808,0.813,0.781,(2.0207)+(0.0088)Gln+(-0.1732)His+(-0.0003)Leu+(0.0705)Phe;0.812,0.831,0.794,0.775,0.803,0.815,0.810,0.801,(8.3222)+(0.0017)Asn+(-0.0946)His+(0.0241)Leu+(-0.1115)Trp;0.812,0.833,0.737,0.706,0.710,0.813,0.823,0.763,(4.9279)+(-0.1071)His+(-0.0356)Val+(0.0258)Orn+(0.1225)Ile;0.812,0.827,0.735,0.708,0.701,0.812,0.821,0.760,(5.0451)+(-0.1089)His+(0.0091)Thr+(-0.0341)Val+(0.1239)Ile;0.812,0.832,0.802,0.819,0.815,0.812,0.723,0.792,(6.4831)+(0.0235)Thr+(-0.1775)Met+(0.0040)Lys+(-0.1444)Trp;0.812,0.833,0.781,0.768,0.773,0.819,0.804,0.791,(1.9858)+(0.0116)Gln+(-0.1727)His+(-

0.0231)Arg+(0.0777)Phe;0.812,0.832,0.757,0.736,0.746,0.800,0.802,0.771,(2.0544)+(0.0079)Gln+(-0.1767)His+(0.0067)Thr+(0.0696)Phe;0.812,0.838,0.795,0.812,0.793,0.746,0.790,0.785,(3.6285)+(-0.0004)Gly+(-0.0341)Tyr+(0.0896)Phe+(-0.1603)Trp;0.812,0.833,0.795,0.773,0.806,0.817,0.815,0.803,(8.2111)+(-0.0968)His+(0.0103)Tyr+(0.0231)Leu+(-0.1151)Trp;0.812,0.831,0.798,0.788,0.807,0.809,0.796,0.800,(8.1159)+(-0.0945)His+(0.0062)Val+(0.0090)Lys+(-0.1112)Trp;0.812,0.828,0.758,0.728,0.735,0.835,0.830,0.782,(5.5845)+(-0.1345)His+(0.0136)Thr+(-0.0070)Ala+(0.0568)Ile;0.812,0.826,0.738,0.719,0.723,0.844,0.746,0.758,(3.9273)+(0.0374)Ser+(-0.1280)His+(-0.0056)Ala+(0.0115)Pro;0.812,0.831,0.743,0.722,0.742,0.833,0.736,0.758,(2.8050)+(0.0276)Ser+(0.0050)Gln+(-0.1543)His+(0.0188)Orn;0.812,0.827,0.761,0.732,0.749,0.819,0.819,0.780,(3.0899)+(0.0084)Gln+(-0.1622)His+(-0.0030)Pro+(0.0468)Ile;0.812,0.833,0.764,0.772,0.763,0.795,0.718,0.762,(3.2489)+(0.0273)Ser+(0.0063)Pro+(-0.0169)Tyr+(-0.1497)Trp;0.812,0.829,0.785,0.781,0.714,0.862,0.891,0.812,(5.4739)+(-0.1006)Asn+(-0.0074)Ala+(-0.0541)Val+(0.1787)Ile;0.812,0.833,0.767,0.771,0.768,0.796,0.735,0.768,(2.7816)+(0.0302)Ser+(-0.0057)Thr+(0.0057)Pro+(-0.1527)Trp;0.812,0.832,0.796,0.787,0.775,0.818,0.850,0.808,(4.9433)+(0.0006)Gly+(-0.0083)Ala+(0.0675)Ile+(-0.1568)Trp;0.811,0.829,0.758,0.740,0.746,0.805,0.797,0.772,(1.8310)+(0.0020)Gly+(0.0083)Gln+(-0.1741)His+(0.0728)Phe;0.811,0.842,0.803,0.808,0.817,0.758,0.790,0.793,(3.8711)+(-0.0184)Arg+(0.0037)Pro+(0.0761)Phe+(-0.1703)Trp;0.811,0.833,0.807,0.825,0.815,0.826,0.728,0.799,(6.8213)+(0.0251)Thr+(-0.0015)Ala+(-0.1577)Met+(-0.1396)Trp;0.811,0.839,0.825,0.834,0.822,0.799,0.824,0.820,(4.1970)+(-0.0054)Ala+(-0.0140)Arg+(0.0902)Phe+(-0.1577)Trp;0.811,0.831,0.808,0.823,0.821,0.812,0.736,0.798,(7.0422)+(-0.0024)Gly+(0.0268)Thr+(-0.1690)Met+(-0.1424)Trp;0.811,0.828,0.731,0.695,0.726,0.835,0.762,0.755,(3.3756)+(0.0398)Ser+(-0.1462)His+(-0.00

44)Ala+(0.0244)Leu;0.811,0.834,0.807,0.818,0.825,0.822,0.731,0.799,(6
.5035)+(0.0244)Thr+(0.0176)Tyr+(-0.1936)Met+(-0.1464)Trp;0.811,0.829,
0.765,0.758,0.748,0.848,0.759,0.778,(3.1230)+(0.0283)Ser+(0.0061)Gln+
(-0.1446)His+(-0.0022)Ala;0.811,0.837,0.789,0.805,0.788,0.744,0.777,0
.779,(3.4379)+(-0.0363)Tyr+(0.0096)Orn+(0.0843)Phe+(-0.1600)Trp;0.811
,0.834,0.770,0.778,0.777,0.808,0.705,0.767,(3.5483)+(0.0320)Ser+(-0.0
216)Arg+(0.0070)Pro+(-0.1506)Trp;0.811,0.836,0.740,0.708,0.752,0.829,
0.735,0.756,(3.3118)+(0.0473)Ser+(-0.1330)His+(-0.1623)Met+(0.0304)Le
u;0.811,0.832,0.803,0.804,0.794,0.827,0.801,0.806,(4.0489)+(0.0380)Se
r+(-0.0076)Gly+(-0.0031)Ala+(-0.1436)Trp;0.811,0.832,0.790,0.772,0.79
1,0.815,0.818,0.799,(8.3663)+(-0.0902)His+(-0.0165)Val+(0.0504)Leu+(-
0.1084)Trp;0.811,0.834,0.818,0.819,0.823,0.834,0.795,0.818,(7.7200)+(
-0.0062)Ala+(-0.0702)Cit+(0.0142)Pro+(-0.1382)Trp;0.811,0.832,0.761,0
.738,0.752,0.809,0.805,0.776,(2.0033)+(0.0083)Gln+(-0.1735)His+(0.010
7)Orn+(0.0661)Phe;0.811,0.833,0.795,0.785,0.777,0.815,0.847,0.806,(4.
9222)+(-0.0084)Ala+(0.0064)Orn+(0.0649)Ile+(-0.1571)Trp;0.811,0.833,0
.767,0.770,0.772,0.800,0.723,0.766,(3.1908)+(0.0297)Ser+(0.0056)Pro+(
-0.0064)Lys+(-0.1489)Trp;0.811,0.838,0.798,0.814,0.796,0.752,0.790,0.
788,(3.6783)+(-0.0324)Tyr+(-0.0026)Lys+(0.0918)Phe+(-0.1582)Trp;0.811
,0.830,0.804,0.803,0.804,0.819,0.795,0.805,(8.2595)+(-0.0867)His+(-0.
0008)Ala+(0.0113)Lys+(-0.1036)Trp;0.810,0.837,0.803,0.809,0.819,0.765
,0.778,0.793,(3.8918)+(-0.0199)Arg+(0.0130)Orn+(0.0718)Phe+(-0.1678)T
rp;0.810,0.828,0.770,0.748,0.761,0.828,0.807,0.786,(3.1225)+(0.0109)G
ln+(-0.1602)His+(-0.0209)Arg+(0.0449)Ile;0.810,0.825,0.752,0.720,0.74
3,0.816,0.808,0.772,(3.0409)+(0.0078)Gln+(-0.1646)His+(0.0044)Thr+(0.
0422)Ile;0.810,0.831,0.816,0.824,0.833,0.826,0.755,0.810,(5.5175)+(0.
0042)Gln+(0.0100)Thr+(-0.0780)Cit+(-0.1625)Trp;0.810,0.835,0.842,0.85
6,0.845,0.850,0.793,0.836,(5.4438)+(0.0073)Gln+(-0.0645)Cit+(-0.0924)

Met+(-0.1392)Trp;0.810,0.834,0.786,0.783,0.789,0.796,0.780,0.787,(3.3162)+(0.0370)Ser+(-0.0084)Gly+(0.0122)Orn+(-0.1560)Trp;0.810,0.834,0.779,0.758,0.763,0.833,0.830,0.796,(6.1820)+(-0.0886)His+(-0.1511)Met+(0.1324)Ile+(-0.0501)Leu;0.810,0.836,0.783,0.776,0.793,0.753,0.805,0.782,(3.6270)+(-0.0194)Arg+(0.0424)Ile+(0.0553)Phe+(-0.1799)Trp;0.810,0.834,0.776,0.770,0.752,0.800,0.826,0.787,(0.2209)+(-0.3247)Met+(0.1744)Ile+(-0.0961)Leu+(0.1055)Phe;0.810,0.831,0.743,0.720,0.742,0.843,0.734,0.760,(4.0623)+(0.0328)Ser+(-0.1341)His+(-0.0031)Ala+(0.0278)Orn;0.810,0.829,0.771,0.766,0.767,0.851,0.735,0.780,(3.0439)+(0.0309)Ser+(0.0082)Gln+(-0.1468)His+(-0.0224)Arg;0.810,0.834,0.797,0.811,0.810,0.816,0.720,0.789,(6.2620)+(0.0216)Thr+(-0.1736)Met+(0.0173)Orn+(-0.1415)Trp;0.810,0.826,0.740,0.720,0.736,0.828,0.738,0.756,(2.6042)+(0.0298)Ser+(0.0055)Gln+(-0.1538)His+(0.0053)Pro;0.810,0.825,0.738,0.713,0.703,0.815,0.821,0.763,(5.0639)+(0.0019)Gly+(-0.1025)His+(-0.0340)Val+(0.1261)Ile;0.810,0.831,0.772,0.762,0.715,0.823,0.881,0.795,(3.8224)+(-0.1505)Asn+(-0.0607)Val+(0.1632)Ile+(0.0631)Phe;0.810,0.829,0.759,0.749,0.748,0.843,0.746,0.771,(3.0972)+(0.0291)Ser+(0.0062)Gln+(-0.1468)His+(-0.0038)Lys;0.810,0.830,0.739,0.705,0.744,0.830,0.751,0.758,(3.9002)+(0.0395)Ser+(-0.0047)Gly+(-0.1396)His+(0.0244)Orn;0.810,0.829,0.807,0.806,0.809,0.815,0.799,0.808,(8.5292)+(-0.0228)Asn+(-0.0833)His+(0.0125)Lys+(-0.1041)Trp;0.810,0.826,0.753,0.742,0.742,0.836,0.744,0.766,(2.9040)+(0.0286)Ser+(0.0060)Gln+(-0.1501)His+(-0.0005)Thr;0.810,0.832,0.763,0.767,0.771,0.786,0.722,0.761,(2.7135)+(0.0261)Ser+(0.0038)Pro+(0.0076)Orn+(-0.1585)Trp;0.810,0.830,0.804,0.808,0.804,0.833,0.770,0.804,(8.5238)+(0.0028)Gly+(-0.0797)His+(-0.0001)Ala+(-0.0940)Trp;0.810,0.833,0.794,0.776,0.802,0.812,0.812,0.801,(8.2462)+(-0.0954)His+(0.0024)Arg+(0.0242)Leu+(-0.1119)Trp;0.810,0.827,0.806,0.800,0.810,0.825,0.801,0.809,(8.7168)+(-0.0860)His+(-0.0014)Ala+(0.0087)Val+

(-0.1042)Trp;0.810,0.837,0.806,0.813,0.822,0.762,0.785,0.796,(3.7751)+(0.0009)Gly+(-0.0174)Arg+(0.0801)Phe+(-0.1687)Trp;0.810,0.830,0.791,0.799,0.782,0.834,0.755,0.793,(3.4755)+(0.0260)Ser+(-0.0048)Ala+(0.0174)Orn+(-0.1451)Trp;0.810,0.830,0.768,0.773,0.773,0.795,0.725,0.766,(3.0252)+(0.0269)Ser+(0.0053)Pro+(-0.0021)Val+(-0.1536)Trp;0.809,0.825,0.752,0.722,0.742,0.816,0.807,0.772,(2.9319)+(0.0012)Gly+(0.0080)Gln+(-0.1625)His+(0.0435)Ile;0.809,0.825,0.744,0.720,0.708,0.814,0.832,0.769,(5.3081)+(-0.0979)His+(-0.0325)Val+(0.1336)Ile+(-0.0085)Leu;0.809,0.830,0.792,0.801,0.785,0.835,0.753,0.794,(3.7787)+(0.0271)Ser+(0.0014)Thr+(-0.0038)Ala+(-0.1437)Trp;0.809,0.831,0.732,0.704,0.743,0.830,0.711,0.747,(4.0471)+(0.0341)Ser+(-0.1364)His+(0.0276)Orn+(-0.0051)Lys;0.809,0.830,0.797,0.795,0.820,0.812,0.742,0.792,(6.7657)+(0.0118)Thr+(-0.0771)Cit+(0.0068)Pro+(-0.1612)Trp;0.809,0.829,0.806,0.812,0.806,0.834,0.771,0.806,(8.6863)+(-0.0109)Asn+(0.0030)Gly+(-0.0772)His+(-0.0931)Trp;0.809,0.830,0.796,0.788,0.775,0.815,0.849,0.807,(5.1510)+(-0.0079)Ala+(-0.0053)Tyr+(0.0676)Ile+(-0.1546)Trp;0.809,0.839,0.810,0.817,0.825,0.763,0.794,0.799,(3.9502)+(-0.0169)Arg+(-0.0013)Leu+(0.0804)Phe+(-0.1672)Trp;0.809,0.833,0.801,0.817,0.816,0.813,0.717,0.791,(6.6421)+(0.0247)Thr+(0.0008)Val+(-0.1696)Met+(-0.1424)Trp;0.809,0.831,0.804,0.792,0.814,0.819,0.801,0.807,(8.4259)+(-0.0904)His+(0.0126)Tyr+(0.0071)Val+(-0.1097)Trp;0.809,0.832,0.775,0.782,0.781,0.810,0.721,0.774,(3.2415)+(0.0283)Ser+(0.0157)Orn+(-0.0073)Lys+(-0.1466)Trp;0.809,0.832,0.762,0.764,0.770,0.790,0.723,0.761,(3.0270)+(0.0281)Ser+(-0.0007)Gln+(0.0049)Pro+(-0.1559)Trp;0.809,0.832,0.810,0.810,0.814,0.822,0.795,0.810,(8.3905)+(-0.0822)His+(-0.0596)Met+(0.0146)Lys+(-0.1023)Trp;0.809,0.829,0.731,0.695,0.741,0.822,0.739,0.749,(3.8159)+(0.0451)Ser+(-0.0632)Asn+(-0.1372)His+(0.0209)Leu;0.809,0.827,0.761,0.743,0.741,0.813,0.810,0.777,(3.4909)+(0.0084)Gln+(-0.1515)His+(-0.0270)Tyr+(

0.0495)Ile;0.809,0.831,0.815,0.813,0.830,0.816,0.788,0.812,(5.0136)+(0.0051)Gln+(-0.0817)Cit+(0.0146)Leu+(-0.1696)Trp;0.809,0.829,0.744,0.725,0.725,0.780,0.806,0.759,(4.6402)+(-0.1371)His+(-0.0491)Tyr+(0.0390)Ile+(0.0786)Phe;0.808,0.830,0.732,0.724,0.724,0.764,0.744,0.739,(4.3880)+(-0.1500)His+(0.0218)Thr+(-0.0566)Tyr+(0.1046)Phe;0.808,0.831,0.802,0.819,0.820,0.820,0.704,0.791,(7.1418)+(0.0288)Thr+(-0.0132)Arg+(-0.1612)Met+(-0.1394)Trp;0.808,0.830,0.790,0.789,0.790,0.803,0.787,0.792,(3.6192)+(0.0384)Ser+(-0.0082)Gly+(-0.0002)Thr+(-0.1522)Trp;0.808,0.830,0.781,0.779,0.771,0.822,0.775,0.787,(2.9611)+(0.0292)Ser+(-0.0056)Ala+(0.0171)Leu+(-0.1552)Trp;0.808,0.831,0.746,0.722,0.755,0.839,0.723,0.760,(4.4635)+(0.0392)Ser+(-0.0690)Asn+(-0.1235)His+(0.0287)Orn;0.808,0.825,0.724,0.682,0.730,0.815,0.757,0.746,(3.2667)+(0.0444)Ser+(-0.0040)Gly+(-0.1508)His+(0.0189)Leu;0.808,0.823,0.717,0.680,0.717,0.815,0.746,0.740,(3.3138)+(0.0383)Ser+(-0.1448)His+(-0.0176)Val+(0.0456)Leu;0.808,0.828,0.802,0.794,0.811,0.818,0.793,0.804,(8.5804)+(0.0012)Asn+(-0.0878)His+(0.0080)Val+(-0.1055)Trp;0.808,0.826,0.720,0.679,0.731,0.821,0.730,0.740,(3.4087)+(0.0421)Ser+(-0.1472)His+(-0.0090)Lys+(0.0248)Leu;0.808,0.831,0.794,0.803,0.787,0.839,0.753,0.796,(3.8930)+(0.0288)Ser+(-0.0034)Ala+(-0.0026)Lys+(-0.1398)Trp;0.808,0.827,0.815,0.815,0.829,0.818,0.783,0.811,(8.0818)+(-0.0400)Asn+(-0.0653)Cit+(0.0090)Pro+(-0.1401)Trp;0.808,0.831,0.794,0.784,0.795,0.796,0.815,0.797,(5.6821)+(0.0029)Pro+(-0.1724)Met+(0.0626)Ile+(-0.1434)Trp;0.808,0.833,0.778,0.768,0.782,0.788,0.789,0.782,(3.0340)+(0.0387)Ser+(-0.0081)Gly+(0.0093)Leu+(-0.1623)Trp;0.808,0.830,0.793,0.785,0.822,0.804,0.749,0.790,(6.4457)+(0.0135)Thr+(-0.0795)Cit+(0.0150)Leu+(-0.1727)Trp;0.808,0.830,0.802,0.796,0.808,0.836,0.780,0.805,(8.1309)+(0.0032)Gly+(-0.0876)His+(0.0203)Tyr+(-0.1020)Trp;0.808,0.829,0.795,0.809,0.793,0.837,0.732,0.793,(4.2202)+(

0.0312)Ser+(-0.0028)Ala+(-0.0153)Arg+(-0.1382)Trp;0.808,0.827,0.747,0.723,0.711,0.817,0.836,0.772,(5.4084)+(-0.0995)His+(-0.0018)Pro+(-0.0348)Val+(0.1296)Ile;0.808,0.827,0.710,0.666,0.721,0.818,0.724,0.732,(2.9965)+(0.0366)Ser+(-0.1553)His+(0.0164)Orn+(0.0166)Leu;0.808,0.827,0.754,0.722,0.747,0.815,0.812,0.774,(3.0101)+(0.0079)Gln+(-0.1632)His+(0.0081)Orn+(0.0404)Ile;0.808,0.828,0.837,0.849,0.840,0.846,0.794,0.832,(5.5839)+(0.0060)Gln+(-0.0030)Ala+(-0.0710)Cit+(-0.1465)Trp;0.808,0.825,0.756,0.728,0.734,0.836,0.818,0.779,(5.3494)+(0.0041)Gly+(-0.1269)His+(-0.0066)Ala+(0.0608)Ile;0.808,0.828,0.792,0.782,0.796,0.798,0.809,0.796,(5.4986)+(-0.1707)Met+(0.0099)Orn+(0.0623)Ile+(-0.1436)Trp;0.808,0.831,0.825,0.841,0.825,0.824,0.784,0.819,(5.5542)+(-0.1088)Asn+(0.0056)Gln+(0.0151)Thr+(-0.1462)Trp;0.808,0.831,0.796,0.806,0.786,0.836,0.759,0.797,(3.5343)+(0.0265)Ser+(0.0009)Gln+(-0.0039)Ala+(-0.1440)Trp;0.808,0.830,0.793,0.794,0.792,0.814,0.781,0.795,(3.9816)+(0.0406)Ser+(-0.0084)Gly+(-0.0052)Lys+(-0.1450)Trp;0.808,0.824,0.742,0.711,0.728,0.810,0.801,0.763,(5.1458)+(-0.1220)His+(0.0072)Thr+(0.1016)Ile+(-0.0415)Leu;0.808,0.832,0.794,0.797,0.787,0.849,0.762,0.799,(4.5995)+(0.0092)Gln+(-0.1364)His+(0.0221)Thr+(-0.1690)Met;0.808,0.831,0.801,0.791,0.780,0.823,0.853,0.812,(5.4072)+(-0.0079)Ala+(-0.0051)Lys+(0.0704)Ile+(-0.1512)Trp;0.807,0.835,0.756,0.749,0.762,0.850,0.694,0.764,(4.8062)+(0.0348)Ser+(-0.1177)His+(0.0181)Thr+(-0.1569)Met;0.807,0.832,0.764,0.762,0.769,0.797,0.734,0.766,(2.8281)+(0.0322)Ser+(-0.0098)Lys+(0.0160)Leu+(-0.1558)Trp;0.807,0.829,0.797,0.788,0.799,0.799,0.817,0.801,(5.8591)+(-0.0084)Asn+(-0.1562)Met+(0.0649)Ile+(-0.1427)Trp;0.807,0.831,0.815,0.821,0.831,0.843,0.747,0.811,(7.3461)+(0.0173)Thr+(-0.0036)Ala+(-0.0701)Cit+(-0.1494)Trp;0.807,0.828,0.771,0.751,0.763,0.816,0.807,0.784,(2.0475)+(0.0097)Gln+(-0.1673)His+(-0.0421)Cit+(0.0760)Phe;0.807,0.826,0.746,0.721,0.709,0.815,0.835,0.770,(5.4947)+(-

0.0969)His+(-0.0349)Val+(-0.0026)Lys+(0.1294)Ile;0.807,0.824,0.757,0.746,0.751,0.842,0.736,0.769,(3.0133)+(0.0294)Ser+(0.0066)Gln+(-0.1431)His+(-0.0360)Cit;0.807,0.830,0.814,0.818,0.826,0.816,0.776,0.809,(5.2929)+(0.0050)Gln+(-0.0816)Cit+(0.0074)Pro+(-0.1613)Trp;0.807,0.825,0.747,0.729,0.707,0.815,0.829,0.770,(5.7567)+(-0.0932)His+(-0.0208)Tyr+(-0.0340)Val+(0.1310)Ile;0.807,0.830,0.790,0.788,0.790,0.802,0.786,0.792,(3.6027)+(0.0383)Ser+(-0.0082)Gly+(0.0002)Val+(-0.1527)Trp;0.807,0.829,0.790,0.782,0.791,0.799,0.803,0.794,(5.3784)+(0.0018)Gly+(-0.1712)Met+(0.0667)Ile+(-0.1429)Trp;0.807,0.826,0.755,0.740,0.731,0.809,0.807,0.772,(5.8998)+(-0.1026)His+(-0.0278)Tyr+(0.1161)Ile+(-0.0460)Leu;0.807,0.829,0.772,0.782,0.774,0.806,0.714,0.769,(3.2676)+(0.0258)Ser+(-0.0144)Tyr+(0.0142)Orn+(-0.1491)Trp;0.807,0.829,0.776,0.781,0.779,0.806,0.736,0.775,(2.8373)+(0.0286)Ser+(-0.0055)Thr+(0.0138)Orn+(-0.1513)Trp;0.807,0.831,0.806,0.810,0.813,0.840,0.753,0.804,(8.7794)+(0.0040)Gly+(-0.0687)His+(-0.0364)Cit+(-0.0982)Trp;0.807,0.831,0.759,0.757,0.767,0.783,0.731,0.759,(2.4883)+(0.0274)Ser+(0.0033)Pro+(0.0077)Leu+(-0.1642)Trp;0.807,0.829,0.743,0.709,0.733,0.816,0.804,0.766,(5.0254)+(-0.1197)His+(0.0212)Orn+(0.1025)Ile+(-0.0454)Leu;0.807,0.831,0.775,0.782,0.781,0.802,0.724,0.772,(3.0725)+(0.0254)Ser+(-0.0019)Val+(0.0126)Orn+(-0.1525)Trp;0.807,0.823,0.760,0.729,0.755,0.818,0.812,0.778,(3.0007)+(0.0094)Gln+(-0.1544)His+(-0.0459)Cit+(0.0473)Ile;0.807,0.827,0.736,0.712,0.752,0.833,0.696,0.748,(4.2235)+(0.0363)Ser+(-0.1345)His+(-0.0183)Arg+(0.0296)Orn;0.807,0.828,0.739,0.718,0.744,0.829,0.724,0.754,(4.3549)+(0.0427)Ser+(-0.0662)Asn+(-0.1212)His+(0.0078)Pro;0.807,0.833,0.779,0.788,0.791,0.817,0.700,0.774,(3.5973)+(0.0299)Ser+(-0.0224)Arg+(0.0192)Orn+(-0.1488)Trp;0.806,0.831,0.792,0.791,0.791,0.804,0.788,0.794,(3.4870)+(0.0377)Ser+(-0.0083)Gly+(0.0005)Gln+(-0.1533)Trp;0.806,0.827,0.762,0.725,0.747,0.836,0.836,0.786,(5.6514)+(-0.1

284)His+(-0.0068)Ala+(0.0226)Orn+(0.0522)Ile;0.806,0.831,0.799,0.782,0.808,0.817,0.812,0.805,(8.5247)+(-0.0884)His+(-0.0400)Met+(0.0255)Leu+(-0.1078)Trp;0.806,0.828,0.718,0.684,0.728,0.822,0.712,0.737,(3.4414)+(0.0340)Ser+(-0.1439)His+(0.0048)Pro+(0.0207)Orn;0.806,0.830,0.802,0.796,0.807,0.817,0.798,0.805,(8.0929)+(-0.0900)His+(0.0105)Tyr+(0.0098)Lys+(-0.1081)Trp;0.806,0.827,0.779,0.787,0.782,0.813,0.725,0.777,(3.5121)+(0.0289)Ser+(0.0004)Thr+(-0.0049)Lys+(-0.1460)Trp;0.806,0.825,0.755,0.748,0.743,0.837,0.743,0.768,(3.0494)+(0.0282)Ser+(0.0060)Gln+(-0.1469)His+(-0.0065)Tyr;0.806,0.823,0.709,0.666,0.719,0.813,0.726,0.731,(2.9629)+(0.0389)Ser+(-0.1532)His+(0.0033)Pro+(0.0174)Leu;0.806,0.830,0.791,0.794,0.788,0.807,0.779,0.792,(3.9719)+(0.0389)Ser+(-0.0084)Gly+(-0.0115)Tyr+(-0.1460)Trp;0.806,0.826,0.804,0.807,0.827,0.825,0.733,0.798,(6.9470)+(0.0003)Gly+(0.0144)Thr+(-0.0725)Cit+(-0.1571)Trp;0.806,0.823,0.733,0.702,0.735,0.822,0.749,0.752,(3.8136)+(0.0430)Ser+(-0.0047)Gly+(-0.1366)His+(0.0063)Pro;0.806,0.823,0.746,0.720,0.715,0.820,0.827,0.770,(5.6289)+(-0.0914)His+(-0.0344)Cit+(-0.0350)Val+(0.1308)Ile;0.806,0.827,0.778,0.771,0.777,0.768,0.809,0.781,(3.5241)+(0.0020)Gln+(-0.0020)Orn+(0.0489)Ile+(-0.1762)Trp;0.806,0.827,0.797,0.779,0.813,0.817,0.800,0.802,(8.6915)+(-0.0810)His+(-0.0365)Cit+(0.0254)Leu+(-0.1175)Trp;0.806,0.838,0.809,0.815,0.825,0.762,0.794,0.799,(3.9508)+(-0.0166)Arg+(-0.0005)Lys+(0.0795)Phe+(-0.1678)Trp;0.806,0.828,0.777,0.779,0.766,0.773,0.798,0.779,(3.9166)+(0.0024)Gln+(-0.0244)Tyr+(0.0522)Ile+(-0.1656)Trp;0.806,0.831,0.769,0.772,0.777,0.801,0.720,0.767,(3.0920)+(0.0268)Ser+(-0.0007)Gln+(0.0117)Orn+(-0.1544)Trp;0.806,0.835,0.801,0.816,0.804,0.760,0.780,0.790,(4.0243)+(-0.0135)Arg+(-0.0287)Tyr+(0.0939)Phe+(-0.1580)Trp;0.806,0.830,0.794,0.802,0.786,0.835,0.757,0.795,(3.7298)+(0.0278)Ser+(-0.0038)Ala+(0.0015)Tyr+(-0.1432)Trp;0.806,0.829,0.802,0.793,0.811,0.818,0.796,0.805,(8.5338)+(-0.088

2)His+(0.0015)Arg+(0.0080)Val+(-0.1058)Trp;0.806,0.834,0.742,0.733,0.714,0.839,0.754,0.760,(-0.5532)+(0.0402)Ser+(-0.3095)Met+(0.1705)Ile+(-0.0749)Leu;0.806,0.828,0.792,0.782,0.793,0.793,0.815,0.796,(5.6139)+(-0.0593)Asn+(0.0086)Orn+(0.0471)Ile+(-0.1553)Trp;0.806,0.828,0.723,0.690,0.734,0.822,0.715,0.740,(3.5910)+(0.0339)Ser+(-0.1449)His+(0.0023)Val+(0.0222)Orn;0.806,0.821,0.738,0.708,0.741,0.824,0.750,0.756,(3.8853)+(0.0430)Ser+(-0.0044)Gly+(-0.1400)His+(0.0045)Val;0.806,0.827,0.777,0.788,0.778,0.810,0.725,0.775,(3.4438)+(0.0277)Ser+(-0.0008)Thr+(-0.0079)Tyr+(-0.1476)Trp;0.805,0.828,0.806,0.810,0.829,0.830,0.733,0.800,(7.1581)+(0.0157)Thr+(-0.0719)Cit+(-0.0023)Lys+(-0.1552)Trp;0.805,0.829,0.800,0.794,0.784,0.817,0.842,0.809,(5.5251)+(-0.0077)Ala+(-0.0104)Arg+(0.0683)Ile+(-0.1526)Trp;0.805,0.828,0.813,0.814,0.829,0.818,0.773,0.809,(7.7121)+(-0.0607)Cit+(0.0108)Pro+(-0.0833)Met+(-0.1355)Trp;0.805,0.829,0.789,0.796,0.782,0.831,0.756,0.791,(3.5070)+(0.0282)Ser+(-0.0043)Ala+(0.0031)Val+(-0.1469)Trp;0.805,0.828,0.794,0.785,0.795,0.798,0.814,0.798,(5.6131)+(-0.1691)Met+(0.0017)Lys+(0.0647)Ile+(-0.1449)Trp;0.805,0.829,0.788,0.788,0.784,0.793,0.790,0.789,(5.1604)+(-0.0270)Val+(0.0218)Orn+(0.0479)Leu+(-0.1519)Trp;0.805,0.825,0.811,0.814,0.811,0.827,0.789,0.810,(8.9674)+(-0.0058)Asn+(-0.0747)His+(0.0000)Ala+(-0.0944)Trp;0.805,0.827,0.828,0.838,0.839,0.831,0.779,0.822,(5.4327)+(0.0057)Gln+(-0.0742)Cit+(-0.0010)Lys+(-0.1532)Trp;0.805,0.826,0.801,0.801,0.828,0.816,0.734,0.795,(6.8094)+(0.0138)Thr+(-0.0759)Cit+(0.0033)Val+(-0.1631)Trp;0.805,0.828,0.776,0.783,0.780,0.810,0.725,0.774,(3.3635)+(0.0296)Ser+(0.0018)Val+(-0.0057)Lys+(-0.1480)Trp;0.805,0.826,0.798,0.789,0.819,0.797,0.779,0.796,(6.7541)+(-0.0761)Cit+(0.0066)Pro+(0.0126)Leu+(-0.1622)Trp;0.805,0.828,0.781,0.790,0.783,0.815,0.729,0.779,(3.3702)+(0.0284)Ser+(0.0005)Gln+(-0.0051)Lys+(-0.1464)Trp;0.805,0.829,0.766,0.766,0.771,0.790,0.741,0.767,(2.5362)+(0.0301

)Ser+(-0.0043)Thr+(0.0108)Leu+(-0.1599)Trp;0.805,0.830,0.844,0.863,0.837,0.842,0.812,0.838,(5.2885)+(-0.0564)Asn+(0.0076)Gln+(-0.0913)Met+(-0.1317)Trp;0.805,0.830,0.803,0.808,0.804,0.832,0.770,0.803,(8.5141)+(0.0027)Gly+(-0.0799)His+(0.0001)Arg+(-0.0941)Trp;0.805,0.826,0.826,0.835,0.836,0.830,0.775,0.819,(5.3574)+(0.0004)Gly+(0.0055)Gln+(-0.0749)Cit+(-0.1543)Trp;0.805,0.829,0.778,0.755,0.788,0.807,0.801,0.788,(4.3758)+(-0.1254)His+(-0.1794)Met+(0.0247)Orn+(0.1050)Phe;0.805,0.828,0.728,0.698,0.737,0.828,0.717,0.745,(3.7556)+(0.0336)Ser+(-0.1402)His+(-0.0014)Thr+(0.0251)Orn;0.805,0.823,0.712,0.673,0.722,0.813,0.724,0.733,(3.1098)+(0.0383)Ser+(-0.1539)His+(0.0014)Thr+(0.0196)Leu;0.805,0.822,0.793,0.778,0.786,0.835,0.820,0.805,(4.0394)+(-0.0611)Asn+(0.0114)Gln+(-0.1504)His+(0.0132)

Leu;0.804,0.824,0.759,0.732,0.745,0.817,0.821,0.779,(5.7670)+(-0.0218)Asn+(-0.1057)His+(0.1096)Ile+(-0.0464)Leu;0.804,0.828,0.782,0.775,0.781,0.768,0.813,0.784,(3.6405)+(-0.0012)Gly+(0.0021)Gln+(0.0476)Ile+(-0.1760)Trp;0.804,0.827,0.778,0.790,0.790,0.813,0.696,0.772,(3.9836)+(0.0292)Ser+(0.0049)Thr+(-0.0204)Arg+(-0.1485)Trp;0.804,0.825,0.737,0.709,0.742,0.780,0.769,0.750,(4.6210)+(-0.1532)His+(0.0179)Thr+(-0.0086)Lys+(0.0790)Phe;0.804,0.825,0.806,0.797,0.823,0.818,0.789,0.807,(8.9569)+(-0.0754)His+(-0.0377)Cit+(0.0092)Val+(-0.1122)Trp;0.804,0.821,0.739,0.711,0.723,0.814,0.790,0.760,(4.8848)+(0.0031)Gly+(-0.1178)His+(0.1065)Ile+(-0.0430)Leu;0.804,0.828,0.775,0.767,0.775,0.767,0.803,0.778,(3.5135)+(0.0017)Gln+(0.0016)Thr+(0.0477)Ile+(-0.1771)Trp;0.804,0.831,0.806,0.811,0.807,0.834,0.770,0.806,(8.5901)+(0.0029)Gly+(-0.0776)His+(-0.0143)Met+(-0.0927)Trp;0.804,0.826,0.813,0.807,0.815,0.836,0.805,0.816,(8.6540)+(-0.0811)His+(-0.0012)Ala+(0.0209)Tyr+(-0.1020)Trp;0.804,0.822,0.740,0.717,0.738,0.838,0.738,0.758,(3.8950)+(0.0378)Ser+(-0.1383)His+(-0.0034)Ala+(0.0075)Val;0.804,0.830,0.800,0.786,0.8

05,0.804,0.823,0.805,(5.5396)+(0.0151)Tyr+(-0.1889)Met+(0.0648)Ile+(-0.1468)Trp;0.804,0.830,0.763,0.762,0.772,0.789,0.729,0.763,(2.5017)+(0.0268)Ser+(0.0069)Orn+(0.0083)Leu+(-0.1635)Trp;0.804,0.827,0.764,0.763,0.757,0.767,0.777,0.766,(4.5967)+(0.0074)Thr+(-0.0274)Tyr+(0.0525)Ile+(-0.1651)Trp;0.804,0.819,0.718,0.687,0.725,0.816,0.715,0.736,(3.4756)+(0.0371)Ser+(-0.1430)His+(0.0055)Pro+(0.0029)Val;0.804,0.822,0.793,0.790,0.782,0.842,0.793,0.801,(4.7632)+(-0.0783)Asn+(0.0102)Gln+(-0.1415)His+(0.0133)Thr;0.804,0.828,0.797,0.784,0.790,0.841,0.814,0.807,(3.6372)+(0.0114)Gln+(-0.1481)His+(-0.1400)Met+(0.0212)Leu;0.804,0.825,0.746,0.731,0.748,0.838,0.715,0.758,(4.9208)+(0.0385)Ser+(-0.0688)Asn+(-0.1209)His+(0.0090)Thr;0.804,0.828,0.778,0.790,0.777,0.807,0.725,0.775,(3.3878)+(0.0269)Ser+(0.0003)Gln+(-0.0089)Tyr+(-0.1484)Trp;0.804,0.826,0.803,0.808,0.825,0.823,0.729,0.796,(7.0519)+(0.0152)Thr+(-0.0713)Cit+(-0.0043)Tyr+(-0.1554)Trp;0.804,0.826,0.820,0.825,0.835,0.822,0.775,0.814,(5.1891)+(0.0054)Gln+(-0.0796)Cit+(0.0041)Val+(-0.1625)Trp;0.804,0.825,0.802,0.813,0.810,0.803,0.757,0.796,(6.8961)+(-0.0843)Asn+(0.0163)Thr+(0.0043)Pro+(-0.1438)Trp;0.804,0.820,0.736,0.729,0.646,0.849,0.860,0.771,(0.3125)+(0.0208)Ser+(-0.0116)Ala+(-0.0520)Val+(0.1708)Ile;0.804,0.828,0.779,0.789,0.781,0.815,0.721,0.777,(3.6205)+(0.0289)Ser+(-0.0050)Tyr+(-0.0041)Lys+(-0.1440)Trp;0.804,0.827,0.790,0.781,0.788,0.792,0.812,0.793,(5.5169)+(-0.0584)Asn+(0.0014)Gly+(0.0508)Ile+(-0.1551)Trp;0.804,0.826,0.753,0.763,0.754,0.782,0.707,0.751,(-2.7237)+(0.0542)Ser+(-0.0949)Asn+(-0.3071)Met+(0.1089)Phe;0.803,0.821,0.767,0.735,0.745,0.833,0.848,0.790,(5.8863)+(-0.1211)His+(-0.0075)Ala+(0.0039)Pro+(0.0547)Ile;0.803,0.819,0.722,0.695,0.726,0.820,0.713,0.738,(3.6668)+(0.0367)Ser+(-0.1378)His+(-0.0005)Thr+(0.0065)Pro;0.803,0.827,0.775,0.786,0.775,0.805,0.723,0.772,(3.3948)+(0.0274)Ser+(-0.0093)Tyr+(0.0008)Val+(-0.1492)Trp;0.803,0.827,0.778,0.786,0.779,0.

805,0.733,0.776,(3.1455)+(0.0282)Ser+(0.0002)Gln+(-0.0025)Thr+(-0.150
5)Trp;0.803,0.821,0.718,0.678,0.719,0.787,0.774,0.740,(3.3468)+(0.005
0)Gly+(-0.1532)His+(0.0337)Ile+(0.0562)Phe;0.803,0.821,0.731,0.703,0.
739,0.828,0.717,0.747,(3.8861)+(0.0385)Ser+(-0.1400)His+(0.0063)Val+(
-0.0043)Lys;0.803,0.824,0.792,0.781,0.784,0.841,0.800,0.802,(4.3829)+
(-0.0626)Asn+(0.0102)Gln+(-0.1414)His+(0.0227)Orn;0.803,0.821,0.745,0
.724,0.750,0.832,0.727,0.758,(4.4239)+(0.0422)Ser+(-0.0562)Asn+(-0.12
59)His+(0.0045)Val;0.803,0.827,0.811,0.805,0.815,0.830,0.801,0.813,(8
.7447)+(-0.0101)Asn+(-0.0799)His+(0.0191)Tyr+(-0.1021)Trp;0.803,0.821
,0.721,0.686,0.734,0.818,0.715,0.738,(3.5066)+(0.0420)Ser+(-0.1462)Hi
s+(-0.0141)Arg+(0.0198)Leu;0.803,0.824,0.756,0.730,0.737,0.819,0.819,
0.776,(5.4911)+(-0.1122)His+(-0.0033)Pro+(0.1143)Ile+(-0.0465)Leu;0.8
03,0.821,0.757,0.739,0.747,0.843,0.764,0.773,(4.5186)+(0.0422)Ser+(-0
.0047)Gly+(-0.1256)His+(-0.0019)Ala;0.803,0.825,0.793,0.784,0.792,0.7
92,0.820,0.797,(5.7215)+(-0.0545)Asn+(-0.0004)Pro+(0.0508)Ile+(-0.155
5)Trp;0.803,0.822,0.748,0.727,0.715,0.817,0.825,0.771,(5.9235)+(-0.09
06)His+(-0.0137)Arg+(-0.0375)Val+(0.1359)Ile;0.803,0.828,0.817,0.834,
0.812,0.812,0.787,0.811,(4.7049)+(0.0058)Gln+(0.0089)Pro+(-0.1649)Met
+(-0.1355)Trp;0.803,0.826,0.788,0.794,0.808,0.796,0.729,0.782,(5.9811
)+(0.0259)Thr+(-0.2020)Met+(0.0171)Leu+(-0.1511)Trp;0.803,0.827,0.777
,0.784,0.779,0.804,0.732,0.775,(3.1557)+(0.0285)Ser+(-0.0025)Thr+(0.0
004)Val+(-0.1509)Trp;0.803,0.827,0.806,0.799,0.813,0.821,0.796,0.807,
(8.7196)+(-0.0843)His+(0.0083)Val+(-0.0221)Met+(-0.1036)Trp;0.803,0.8
21,0.743,0.719,0.741,0.828,0.750,0.759,(4.2903)+(0.0407)Ser+(-0.0049)
Gly+(-0.1344)His+(0.0042)Thr;0.803,0.827,0.806,0.804,0.815,0.823,0.78
2,0.806,(8.5235)+(-0.0772)His+(-0.0297)Cit+(0.0107)Lys+(-0.1074)Trp;0
.803,0.822,0.759,0.747,0.755,0.845,0.735,0.770,(4.9822)+(0.0408)Ser+(
-0.0558)Asn+(-0.1136)His+(-0.0013)Ala;0.803,0.829,0.829,0.842,0.828,0

.825,0.802,0.824,(5.1398)+(-0.0902)Asn+(0.0057)Gln+(0.0178)Orn+(-0.1401)Trp;0.803,0.825,0.727,0.692,0.753,0.833,0.691,0.742,(3.9437)+(0.0338)Ser+(-0.1318)His+(-0.0643)Cit+(0.0430)Orn;0.803,0.824,0.796,0.795,0.816,0.811,0.743,0.791,(6.7942)+(0.0025)Gly+(-0.0756)Cit+(0.0086)Pro+(-0.1510)Trp;0.803,0.828,0.788,0.803,0.794,0.818,0.712,0.782,(3.4831)+(0.0292)Ser+(0.0017)Gln+(-0.0197)Arg+(-0.1474)Trp;0.803,0.825,0.801,0.801,0.806,0.810,0.784,0.800,(8.4039)+(-0.0867)His+(-0.0069)Arg+(0.0126)Lys+(-0.1045)Trp;0.803,0.824,0.761,0.744,0.758,0.838,0.758,0.774,(4.9336)+(0.0467)Ser+(-0.0558)Asn+(-0.0042)Gly+(-0.1154)His;0.803,0.822,0.726,0.700,0.730,0.823,0.715,0.742,(3.8546)+(0.0374)Ser+(-0.1345)His+(0.0068)Pro+(-0.0033)Lys;0.803,0.827,0.829,0.843,0.824,0.819,0.809,0.824,(5.1932)+(-0.0885)Asn+(0.0062)Gln+(0.0050)Pro+(-0.1413)Trp;0.803,0.829,0.730,0.709,0.737,0.826,0.706,0.744,(4.0882)+(0.0323)Ser+(-0.1352)His+(-0.0147)Tyr+(0.0285)Orn;0.803,0.830,0.746,0.733,0.737,0.785,0.773,0.757,(4.5795)+(-0.1375)His+(-0.0471)Tyr+(0.0290)Orn+(0.0905)Phe;0.803,0.829,0.796,0.800,0.799,0.815,0.765,0.795,(4.3066)+(0.0418)Ser+(-0.0080)Gly+(-0.0169)Arg+(-0.1455)Trp;0.803,0.826,0.811,0.814,0.811,0.827,0.792,0.811,(8.9100)+(-0.0074)Asn+(-0.0751)His+(0.0019)Arg+(-0.0948)Trp;0.803,0.824,0.745,0.716,0.753,0.780,0.779,0.757,(4.9500)+(-0.0613)Asn+(-0.1456)His+(0.0202)Thr+(0.0768)Phe;0.803,0.820,0.727,0.702,0.718,0.788,0.769,0.744,(5.7341)+(-0.1368)His+(0.0165)Thr+(-0.0366)Tyr+(0.0524)Ile;0.802,0.824,0.815,0.811,0.825,0.817,0.802,0.814,(7.2581)+(-0.0042)Ala+(-0.0693)Cit+(0.0214)Leu+(-0.1523)Trp;0.802,0.820,0.750,0.729,0.746,0.834,0.755,0.766,(4.4427)+(0.0428)Ser+(-0.0049)Gly+(-0.1283)His+(-0.0020)Lys;0.802,0.829,0.748,0.729,0.757,0.836,0.716,0.760,(3.9412)+(0.0435)Ser+(-0.1262)His+(0.0089)Val+(-0.1253)Met;0.802,0.827,0.790,0.791,0.784,0.786,0.804,0.791,(5.4591)+(0.0052)Pro+(-0.0246)Val+(0.0457)Leu+(-0.1523)Trp;0.802,0.825,0.780,0.791,0.789,0

.813,0.705,0.775,(3.7700)+(0.0314)Ser+(-0.0181)Arg+(0.0012)Val+(-0.1470)Trp;0.802,0.824,0.809,0.824,0.817,0.815,0.749,0.801,(7.3471)+(-0.0828)Asn+(0.0189)Thr+(-0.0027)Val+(-0.1379)Trp;0.802,0.823,0.803,0.800,0.823,0.805,0.766,0.799,(7.0482)+(-0.0731)Cit+(0.0079)Pro+(0.0020)Val+(-0.1536)Trp;0.802,0.820,0.820,0.824,0.832,0.825,0.783,0.816,(7.5701)+(-0.0033)Ala+(-0.0679)Cit+(0.0067)Val+(-0.1453)Trp;0.802,0.829,0.789,0.783,0.785,0.786,0.813,0.792,(3.8693)+(0.0029)Gln+(-0.0101)Lys+(0.0551)Ile+(-0.1666)Trp;0.802,0.827,0.793,0.786,0.786,0.844,0.789,0.801,(4.1831)+(0.0096)Gln+(-0.1379)His+(-0.1094)Met+(0.0258)Orn;0.802,0.829,0.760,0.758,0.768,0.787,0.730,0.761,(2.7470)+(0.0287)Ser+(-0.0007)Gln+(0.0103)Leu+(-0.1621)Trp;0.802,0.826,0.772,0.760,0.776,0.766,0.802,0.776,(4.2587)+(-0.0011)Gly+(0.0044)Thr+(0.0478)Ile+(-0.1749)Trp;0.802,0.825,0.810,0.813,0.812,0.826,0.787,0.810,(8.9054)+(-0.0749)His+(0.0001)Ala+(-0.0091)Met+(-0.0942)Trp;0.802,0.823,0.816,0.830,0.816,0.830,0.767,0.811,(7.4091)+(-0.0752)Asn+(0.0199)Thr+(-0.0033)Ala+(-0.1380)Trp;0.802,0.822,0.782,0.772,0.768,0.840,0.796,0.794,(4.2396)+(0.0081)Gln+(-0.1461)His+(-0.0034)Ala+(0.0246)Orn;0.802,0.819,0.743,0.728,0.736,0.842,0.724,0.757,(4.3920)+(0.0337)Ser+(-0.1305)His+(0.0049)Thr+(-0.0022)Ala;0.802,0.827,0.795,0.786,0.797,0.800,0.813,0.799,(5.7694)+(-0.0019)Arg+(-0.1610)Met+(0.0656)Ile+(-0.1431)Trp;0.802,0.826,0.764,0.756,0.764,0.852,0.722,0.773,(4.9352)+(0.0419)Ser+(-0.0371)Asn+(-0.1085)His+(-0.0702)Met;0.802,0.825,0.770,0.758,0.773,0.765,0.797,0.773,(4.1099)+(0.0037)Thr+(-0.0011)Orn+(0.0487)Ile+(-0.1747)Trp;0.802,0.823,0.818,0.829,0.831,0.837,0.751,0.812,(8.0816)+(-0.0409)Asn+(0.0034)Gly+(-0.0628)Cit+(-0.1315)Trp;0.802,0.826,0.810,0.812,0.810,0.827,0.789,0.810,(8.8185)+(-0.0766)His+(-0.0001)Ala+(0.0012)Arg+(-0.0950)Trp;0.802,0.823,0.769,0.766,0.764,0.767,0.790,0.772,(4.7063)+(-0.0235)Tyr+(0.0060)Orn+(0.0517)Ile+(-0.1608)Trp;0.802,0.826,0.783,0.784,0.779

,0.791,0.779,0.783,(5.2381)+(0.0101)Thr+(-0.0254)Val+(0.0483)Leu+(-0.1597)Trp;0.802,0.828,0.770,0.773,0.783,0.799,0.712,0.767,(3.2251)+(0.0323)Ser+(-0.0195)Arg+(0.0120)Leu+(-0.1570)Trp;0.802,0.829,0.763,0.739,0.753,0.818,0.808,0.780,(4.5620)+(-0.1380)His+(-0.0050)Ala+(0.0252)Orn+(0.0724)Phe;0.802,0.826,0.805,0.815,0.815,0.806,0.754,0.798,(6.7049)+(-0.0856)Asn+(0.0148)Thr+(0.0168)Orn+(-0.1426)Trp;0.802,0.822,0.722,0.676,0.726,0.779,0.793,0.743,(3.8819)+(-0.1579)His+(0.0122)Thr+(0.0301)Ile+(0.0507)Phe;0.802,0.821,0.771,0.739,0.751,0.837,0.848,0.794,(6.1476)+(-0.0081)Asn+(-0.1200)His+(-0.0064)Ala+(0.0579)Ile;0.802,0.822,0.800,0.810,0.787,0.815,0.792,0.801,(5.6100)+(-0.0071)Ala+(0.0093)Pro+(0.0187)Orn+(-0.1406)Trp;0.802,0.820,0.811,0.812,0.792,0.854,0.820,0.819,(4.7431)+(-0.0558)Asn+(0.0112)Gln+(-0.1340)His+(-0.0018)Ala;0.802,0.829,0.763,0.766,0.768,0.786,0.728,0.762,(2.8994)+(0.0282)Ser+(-0.0145)Tyr+(0.0120)Leu+(-0.1575)Trp;0.802,0.822,0.775,0.762,0.778,0.766,0.807,0.778,(4.3096)+(-0.0005)Gly+(0.0016)Orn+(0.0487)Ile+(-0.1714)Trp;0.802,0.821,0.715,0.681,0.721,0.809,0.723,0.733,(3.4061)+(0.0390)Ser+(-0.1472)His+(-0.0156)Tyr+(0.0220)Leu;0.802,0.827,0.780,0.774,0.778,0.771,0.809,0.783,(3.5339)+(0.0020)Gln+(-0.0025)Pro+(0.0511)Ile+(-0.1754)Trp;0.801,0.827,0.827,0.836,0.837,0.830,0.778,0.820,(5.3899)+(0.0055)Gln+(-0.0743)Cit+(-0.0001)Tyr+(-0.1543)Trp;0.801,0.827,0.793,0.783,0.792,0.794,0.821,0.7
98,(5.7796)+(-0.0505)Asn+(-0.0023)Lys+(0.0519)Ile+(-0.1540)Trp;0.801,0.825,0.789,0.785,0.783,0.789,0.813,0.793,(5.9106)+(-0.0486)Asn+(-0.0142)Tyr+(0.0530)Ile+(-0.1505)Trp;0.801,0.827,0.828,0.838,0.839,0.830,0.775,0.820,(5.4297)+(0.0059)Gln+(-0.0715)Cit+(-0.0043)Arg+(-0.1532)Trp;0.801,0.826,0.782,0.794,0.790,0.816,0.706,0.777,(3.8862)+(0.0312)Ser+(-0.0178)Arg+(0.0001)Lys+(-0.1449)Trp;0.801,0.820,0.801,0.797,0.789,0.842,0.809,0.809,(4.4220)+(-0.0579)Asn+(0.0113)Gln+(-0.1416)His+(0

.0018)Val;0.801,0.828,0.774,0.782,0.778,0.801,0.726,0.772,(3.2066)+(0.0272)Ser+(-0.0000)Gln+(-0.0000)Val+(-0.1524)Trp;0.801,0.820,0.786,0.770,0.769,0.840,0.823,0.801,(3.8574)+(0.0094)Gln+(-0.1553)His+(-0.0041)Ala+(0.0170)Leu;0.801,0.826,0.805,0.809,0.829,0.826,0.727,0.798,(7.1633)+(0.0164)Thr+(-0.0679)Cit+(-0.0064)Arg+(-0.1564)Trp;0.801,0.821,0.807,0.811,0.790,0.851,0.801,0.813,(4.3833)+(0.0108)Gln+(-0.1339)His+(-0.0005)Ala+(-0.0924)Met;0.801,0.829,0.710,0.690,0.711,0.769,0.716,0.722,(-5.2379)+(0.0523)Ser+(-0.4475)Met+(0.0549)Ile+(0.0871)Phe;0.801,0.821,0.770,0.739,0.748,0.838,0.846,0.793,(6.0890)+(-0.1204)His+(-0.0065)Ala+(-0.0017)Lys+(0.0592)Ile;0.801,0.825,0.811,0.815,0.811,0.828,0.789,0.811,(8.9760)+(-0.0046)Asn+(-0.0741)His+(-0.0051)Met+(-0.0940)Trp;0.801,0.818,0.765,0.762,0.694,0.839,0.868,0.791,(3.7346)+(-0.0093)Ala+(-0.0220)Arg+(-0.0546)Val+(0.1810)Ile;0.801,0.821,0.732,0.692,0.733,0.803,0.788,0.754,(5.5649)+(-0.1403)His+(0.0148)Thr+(-0.0077)Lys+(0.0482)Ile;0.801,0.819,0.722,0.704,0.721,0.818,0.704,0.737,(3.9411)+(0.0364)Ser+(-0.1312)His+(0.0082)Pro+(-0.0163)Tyr;0.801,0.824,0.846,0.863,0.832,0.848,0.826,0.842,(5.4530)+(-0.0767)Asn+(0.0068)Gln+(-0.0027)Ala+(-0.1339)Trp;0.801,0.829,0.772,0.758,0.775,0.781,0.794,0.777,(4.6947)+(0.0083)Thr+(-0.0107)Lys+(0.0549)Ile+(-0.1663)Trp;0.801,0.825,0.804,0.798,0.814,0.807,0.798,0.804,(6.9437)+(-0.0646)Cit+(-0.0165)Val+(0.0426)Leu+(-0.1550)Trp;0.801,0.822,0.750,0.723,0.734,0.813,0.813,0.771,(5.3817)+(-0.1127)His+(-0.0004)Lys+(0.1081)Ile+(-0.0452)Leu;0.801,0.826,0.782,0.795,0.790,0.816,0.705,0.777,(3.9043)+(0.0312)Ser+(-0.0177)Arg+(-0.0006)Tyr+(-0.1445)Trp;0.801,0.826,0.759,0.752,0.759,0.849,0.716,0.769,(4.6196)+(0.0395)Ser+(-0.1138)His+(0.0001)Ala+(-0.0979)Met;0.801,0.820,0.754,0.740,0.737,0.817,0.783,0.769,(4.1104)+(0.0049)Gly+(-0.1412)His+(-0.0044)Ala+(0.0875)Phe;0.801,0.823,0.803,0.801,0.822,0.807,0.765,0.799,(6.9920)+(-0.0715)Cit+(0.0083)Pro+(0.0016)Ly

s+(-0.1523)Trp;0.801,0.819,0.768,0.743,0.744,0.830,0.838,0.789,(6.294
8)+(-0.1179)His+(-0.0058)Ala+(-0.0165)Tyr+(0.0607)Ile;0.801,0.819,0.7
25,0.698,0.732,0.822,0.714,0.741,(3.7173)+(0.0363)Ser+(-0.1437)His+(0
.0018)Thr+(0.0049)Val;0.800,0.825,0.806,0.812,0.814,0.799,0.777,0.800
,(6.4936)+(-0.0657)Asn+(0.0044)Pro+(0.0208)Orn+(-0.1371)Trp;0.800,0.8
23,0.794,0.790,0.817,0.800,0.753,0.790,(6.4992)+(0.0029)Gly+(-0.0769)
Cit+(0.0171)Leu+(-0.1611)Trp;0.800,0.820,0.737,0.713,0.734,0.784,0.77
2,0.751,(4.2970)+(-0.1503)His+(0.0150)Thr+(-0.0069)Val+(0.0842)Phe;0.
800,0.817,0.732,0.693,0.731,0.801,0.790,0.753,(5.2730)+(-0.1464)His+(
0.0129)Thr+(-0.0033)Pro+(0.0479)Ile;0.800,0.818,0.774,0.755,0.767,0.8
26,0.802,0.788,(3.7650)+(0.0097)Gln+(-0.1592)His+(-0.0050)Lys+(0.0153
)Leu;0.800,0.819,0.772,0.757,0.769,0.827,0.780,0.783,(4.0868)+(0.0083
)Gln+(-0.1509)His+(0.0232)Orn+(-0.0035)Lys;0.800,0.817,0.715,0.676,0.
731,0.812,0.716,0.734,(3.3301)+(0.0402)Ser+(-0.1449)His+(-0.0325)Cit+
(0.0202)Leu;0.800,0.817,0.803,0.801,0.788,0.847,0.807,0.811,(4.5374)+
(-0.0599)Asn+(0.0007)Gly+(0.0111)Gln+(-0.1377)His;0.800,0.822,0.809,0
.820,0.819,0.805,0.761,0.801,(7.2315)+(-0.0803)Asn+(-0.0011)Gly+(0.01
86)Thr+(-0.1434)Trp;0.800,0.827,0.790,0.788,0.790,0.785,0.796,0.790,(
3.7945)+(0.0039)Gln+(-0.0212)Arg+(0.0512)Ile+(-0.1710)Trp;0.800,0.820
,0.804,0.808,0.790,0.849,0.794,0.810,(4.3284)+(0.0003)Gly+(0.0108)Gln
+(-0.1346)His+(-0.0964)Met;0.800,0.825,0.783,0.762,0.789,0.796,0.814,
0.790,(4.4203)+(-0.1277)His+(-0.1970)Met+(0.0074)Lys+(0.1142)Phe;0.80
0,0.819,0.737,0.699,0.737,0.800,0.793,0.757,(5.7928)+(-0.0411)Asn+(-0
.1372)His+(0.0163)Thr+(0.0433)Ile;0.800,0.823,0.813,0.815,0.799,0.852
,0.808,0.819,(4.5541)+(-0.0365)Asn+(0.0117)Gln+(-0.1310)His+(-0.0710)
Met;0.800,0.822,0.795,0.792,0.783,0.839,0.794,0.802,(4.0639)+(0.0109)
Gln+(-0.1343)His+(0.0083)Pro+(-0.1328)Met;0.800,0.823,0.768,0.755,0.7
63,0.849,0.754,0.780,(4.7071)+(0.0455)Ser+(-0.0045)Gly+(-0.1119)His+(

-0.0945)Met;0.800,0.822,0.801,0.806,0.788,0.808,0.811,0.803,(5.7028)+(-0.0073)Ala+(0.0096)Pro+(0.0114)Leu+(-0.1467)Trp;0.800,0.821,0.818,0.828,0.808,0.822,0.807,0.816,(7.1980)+(-0.0466)Asn+(-0.0054)Ala+(0.0110)Pro+(-0.1281)Trp;0.800,0.825,0.741,0.725,0.715,0.828,0.777,0.761,(-1.7307)+(0.0453)Ser+(-0.0075)Ala+(-0.3100)Met+(0.0798)Ile;0.800,0.823,0.752,0.723,0.753,0.814,0.780,0.768,(5.5659)+(0.0057)Gly+(-0.1171)His+(-0.1599)Met+(0.0673)Ile;0.800,0.825,0.840,0.857,0.833,0.833,0.813,0.834,(5.3972)+(-0.0844)Asn+(0.0067)Gln+(-0.0016)Val+(-0.1355)Trp;0.800,0.825,0.777,0.755,0.785,0.791,0.807,0.785,(4.5021)+(-0.1195)His+(0.0062)Pro+(-0.1985)Met+(0.1122)Phe;0.800,0.822,0.781,0.754,0.767,0.833,0.843,0.799,(6.5161)+(-0.1062)His+(-0.0050)Ala+(-0.1211)Met+(0.0688)Ile;0.800,0.825,0.801,0.808,0.791,0.799,0.808,0.802,(4.6487)+(0.0026)Gln+(-0.0227)Val+(0.0443)Leu+(-0.1564)Trp;0.800,0.825,0.816,0.809,0.823,0.840,0.804,0.819,(8.7198)+(-0.0769)His+(0.0277)Tyr+(-0.0504)Met+(-0.1018)Trp;0.800,0.824,0.804,0.802,0.823,0.808,0.766,0.800,(7.1151)+(-0.0715)Cit+(0.0006)Arg+(0.0084)Pro+(-0.1503)Trp;0.800,0.823,0.816,0.828,0.821,0.817,0.776,0.810,(6.9239)+(-0.0647)Asn+(-0.0045)Val+(0.0289)Orn+(-0.1262)Trp;0.799,0.815,0.759,0.738,0.755,0.810,0.785,0.772,(3.6129)+(0.0083)Gln+(-0.1659)His+(0.0071)Thr+(0.0129)Leu;0.799,0.819,0.796,0.789,0.783,0.838,0.810,0.805,(4.3800)+(-0.0620)Asn+(0.0111)Gln+(-0.1400)His+(0.0045)Pro;0.799,0.819,0.740,0.702,0.736,0.792,0.814,0.761,(4.3565)+(-0.1461)His+(-0.0027)Pro+(0.0358)Ile+(0.0518)Phe;0.799,0.818,0.734,0.716,0.736,0.829,0.711,0.748,(4.3040)+(0.0344)Ser+(-0.1335)His+(0.0045)Thr+(-0.0023)Lys;0.799,0.822,0.814,0.829,0.793,0.824,0.808,0.814,(4.7691)+(0.0034)Gln+(-0.0070)Ala+(0.0099)Pro+(-0.1448)Trp;0.799,0.818,0.783,0.780,0.764,0.840,0.789,0.793,(4.4294)+(0.0083)Gln+(-0.1471)His+(0.0086)Thr+(-0.0029)Ala;0.799,0.816,0.770,0.751,0.756,0.825,0.808,0.785,(3.8874)+(0.0086)Gln+(-0.1538)His+(-0.0156)Val+(

0.0366)Leu;0.799,0.819,0.830,0.840,0.839,0.837,0.785,0.825,(8.4852)+(-0.0313)Asn+(-0.0014)Ala+(-0.0568)Cit+(-0.1287)Trp;0.799,0.819,0.734,0.711,0.744,0.825,0.705,0.746,(4.1229)+(0.0402)Ser+(-0.1368)His+(-0.0144)Arg+(0.0055)Val;0.799,0.819,0.821,0.824,0.837,0.821,0.779,0.815,(8.1133)+(-0.0335)Asn+(-0.0634)Cit+(0.0042)Val+(-0.1413)Trp;0.799,0.819,0.818,0.828,0.829,0.836,0.756,0.812,(7.4949)+(0.0023)Gly+(-0.0022)Ala+(-0.0640)Cit+(-0.1354)Trp;0.799,0.818,0.769,0.738,0.749,0.837,0.841,0.791,(6.1458)+(-0.1206)His+(-0.0064)Ala+(-0.0035)Arg+(0.0582)Ile;0.799,0.821,0.742,0.735,0.730,0.782,0.755,0.751,(4.2661)+(0.0041)Gly+(-0.1396)His+(-0.0379)Tyr+(0.1015)Phe;0.799,0.821,0.792,0.804,0.796,0.792,0.754,0.787,(5.2263)+(0.0045)Pro+(-0.0049)Val+(0.0184)Orn+(-0.1450)Trp;0.799,0.821,0.753,0.740,0.751,0.839,0.727,0.764,(4.8549)+(0.0410)Ser+(-0.0580)Asn+(-0.1163)His+(0.0000)Tyr;0.799,0.818,0.746,0.731,0.738,0.841,0.730,0.760,(4.3849)+(0.0356)Ser+(-0.1272)His+(-0.0019)Ala+(0.0001)Lys;0.799,0.816,0.736,0.719,0.730,0.788,0.757,0.749,(3.9711)+(0.0046)Gly+(-0.1439)His+(-0.0053)Val+(0.0888)Phe;0.799,0.821,0.780,0.760,0.785,0.799,0.806,0.787,(4.4833)+(0.0196)Asn+(-0.1251)His+(-0.1931)Met+(0.1174)Phe;0.799,0.824,0.801,0.798,0.790,0.844,0.800,0.808,(3.9832)+(0.0112)Gln+(-0.1431)His+(0.0054)Val+(-0.1101)Met;0.799,0.824,0.832,0.830,0.851,0.837,0.794,0.828,(7.6753)+(-0.0580)Cit+(0.0263)Tyr+(-0.0886)Met+(-0.1383)Trp;0.799,0.818,0.759,0.745,0.706,0.840,0.847,0.785,(5.0518)+(-0.1433)Asn+(-0.0588)Val+(0.0316)Orn+(0.1639)Ile;0.799,0.826,0.809,0.803,0.814,0.830,0.798,0.811,(8.6201)+(-0.0821)His+(-0.0011)Arg+(0.0186)Tyr+(-0.1024)Trp;0.799,0.817,0.769,0.753,0.766,0.823,0.780,0.780,(3.9294)+(-0.0002)Gly+(0.0081)Gln+(-0.1538)His+(0.0212)Orn;0.799,0.817,0.772,0.761,0.721,0.843,0.855,0.795,(5.7506)+(-0.1113)Asn+(-0.0471)Cit+(-0.0537)Val+(0.1649)Ile;0.799,0.820,0.755,0.752,0.667,0.834,0.893,0.786,(1.2213)+(-0.0117)Ala+(-0.0550)Val+(0.1682)Ile

+(0.0370)Phe;0.799,0.822,0.814,0.811,0.830,0.809,0.789,0.810,(7.7847)+(-0.0356)Asn+(-0.0662)Cit+(0.0163)Leu+(-0.1499)Trp;0.799,0.817,0.802,0.798,0.790,0.843,0.810,0.810,(4.4654)+(-0.0632)Asn+(0.0112)Gln+(-0.1397)His+(0.0027)Lys;0.799,0.820,0.742,0.703,0.739,0.792,0.816,0.763,(4.5762)+(-0.1401)His+(-0.0070)Lys+(0.0365)Ile+(0.0556)Phe;0.799,0.823,0.803,0.821,0.810,0.805,0.741,0.794,(7.2455)+(-0.0793)Asn+(0.0190)Thr+(-0.0084)Tyr+(-0.1396)Trp;0.799,0.819,0.822,0.829,0.834,0.819,0.780,0.815,(8.0061)+(-0.0477)Asn+(-0.0587)Cit+(0.0073)Lys+(-0.1395)Trp;0.799,0.821,0.813,0.825,0.805,0.819,0.791,0.810,(6.9176)+(-0.0044)Ala+(0.0129)Pro+(-0.1043)Met+(-0.1244)Trp;0.799,0.823,0.748,0.722,0.745,0.800,0.784,0.763,(4.2971)+(-0.1392)His+(-0.0086)Val+(0.0279)Orn+(0.0788)Phe;0.799,0.823,0.774,0.771,0.767,0.765,0.801,0.776,(4.9385)+(-0.0006)Gly+(-0.0219)Tyr+(0.0536)Ile+(-0.1606)Trp;0.799,0.823,0.779,0.765,0.781,0.782,0.806,0.784,(4.7550)+(0.0065)Orn+(-0.0087)Lys+(0.0537)Ile+(-0.1617)Trp;0.799,0.817,0.791,0.785,0.774,0.842,0.810,0.803,(4.0918)+(0.0095)Gln+(-0.1506)His+(-0.0033)Ala+(0.0047)Val;0.799,0.819,0.747,0.710,0.744,0.789,0.819,0.765,(4.6733)+(-0.0267)Asn+(-0.1384)His+(0.0316)Ile+(0.0540)Phe;0.799,0.825,0.761,0.744,0.765,0.853,0.726,0.772,(4.2840)+(0.0415)Ser+(-0.1172)His+(0.0205)Tyr+(-0.1345)Met;0.799,0.822,0.798,0.807,0.803,0.803,0.761,0.793,(6.1541)+(0.0079)Pro+(-0.1422)Met+(0.0219)Orn+(-0.1306)Trp;0.799,0.820,0.802,0.814,0.806,0.789,0.773,0.796,(6.2062)+(0.0095)Pro+(-0.1544)Met+(0.0085)Lys+(-0.1372)Trp;0.799,0.819,0.750,0.736,0.751,0.835,0.726,0.762,(4.7148)+(0.0409)Ser+(-0.0631)Asn+(-0.1186)His+(0.0030)Lys;0.799,0.822,0.774,0.763,0.777,0.767,0.804,0.778,(4.2739)+(-0.0021)Pro+(0.0023)Orn+(0.0511)Ile+(-0.1708)Trp;0.799,0.817,0.750,0.732,0.746,0.830,0.751,0.765,(4.5263)+(0.0425)Ser+(-0.0051)Gly+(-0.1262)His+(-0.0085)Tyr;0.798,0.821,0.731,0.686,0.732,0.791,0.803,0.753,(4.0637)+(-0.1491)His+(0.0159)Orn+(0.0289)Ile+

(0.0465)Phe;0.798,0.823,0.772,0.769,0.766,0.766,0.795,0.774,(4.8119)+(-0.0002)Pro+(-0.0215)Tyr+(0.0539)Ile+(-0.1610)Trp;0.798,0.823,0.771,0.760,0.774,0.768,0.796,0.775,(4.1409)+(0.0043)Thr+(-0.0027)Pro+(0.0513)Ile+(-0.1742)Trp;0.798,0.818,0.727,0.704,0.739,0.821,0.697,0.740,(4.0595)+(0.0402)Ser+(-0.1312)His+(-0.0168)Arg+(0.0076)Pro;0.798,0.823,0.813,0.816,0.820,0.833,0.780,0.812,(9.2313)+(-0.0651)His+(-0.0002)Ala+(-0.0312)Cit+(-0.0983)Trp;0.798,0.823,0.799,0.810,0.786,0.818,0.780,0.799,(5.7697)+(0.0093)Thr+(-0.0070)Ala+(0.0096)Pro+(-0.1456)Trp;0.798,0.819,0.745,0.727,0.744,0.795,0.758,0.756,(4.3177)+(-0.0458)Asn+(0.0061)Gly+(-0.1391)His+(0.0859)Phe;0.798,0.822,0.756,0.744,0.759,0.840,0.718,0.765,(5.0777)+(0.0421)Ser+(-0.0490)Asn+(-0.1146)His+(-0.0097)Arg;0.798,0.817,0.768,0.752,0.765,0.823,0.778,0.779,(3.9036)+(0.0081)Gln+(-0.1542)His+(0.0002)Val+(0.0211)Orn;0.798,0.824,0.751,0.729,0.738,0.813,0.795,0.769,(4.4724)+(-0.1477)His+(0.0158)Thr+(-0.0051)Ala+(0.0797)Phe;0.798,0.823,0.804,0.799,0.825,0.800,0.778,0.801,(7.0300)+(-0.0715)Cit+(-0.0013)Lys+(0.0169)Leu+(-0.1582)Trp;0.798,0.826,0.811,0.814,0.812,0.827,0.791,0.811,(8.8422)+(-0.0751)His+(0.0020)Arg+(-0.0117)Met+(-0.0943)Trp;0.798,0.823,0.840,0.855,0.834,0.827,0.819,0.834,(5.3442)+(-0.0831)Asn+(-0.0008)Gly+(0.0067)Gln+(-0.1387)Trp;0.798,0.814,0.766,0.747,0.759,0.817,0.794,0.779,(3.5532)+(0.0005)Gly+(0.0091)Gln+(-0.1621)His+(0.0131)Leu;0.798,0.819,0.716,0.686,0.721,0.776,0.744,0.732,(3.6107)+(0.0037)Gly+(-0.1595)His+(0.0118)Thr+(0.0761)Phe;0.798,0.821,0.806,0.818,0.814,0.804,0.754,0.798,(7.0000)+(-0.0847)Asn+(0.0172)Thr+(0.0021)Lys+(-0.1440)Trp;0.798,0.814,0.716,0.707,0.664,0.820,0.772,0.741,(0.5885)+(0.0273)Ser+(-0.0385)Arg+(-0.0565)Val+(0.1639)Ile;0.798,0.818,0.784,0.778,0.762,0.843,0.804,0.797,(4.2542)+(0.0089)Gln+(-0.1421)His+(-0.0048)Ala+(0.0079)Pro;0.798,0.819,0.755,0.742,0.759,0.840,0.718,0.765,(5.1046)+

(0.0418)Ser+(-0.0568)Asn+(-0.1095)His+(-0.0287)Cit;0.798,0.818,0.762,0.746,0.760,0.818,0.772,0.774,(3.9459)+(0.0076)Gln+(-0.1561)His+(0.0047)Thr+(0.0194)Orn;0.798,0.815,0.774,0.766,0.765,0.826,0.773,0.783,(4.3233)+(0.0085)Gln+(-0.1515)His+(0.0086)Thr+(-0.0033)Lys;0.798,0.824,0.813,0.805,0.825,0.836,0.793,0.815,(8.9054)+(-0.0713)His+(-0.0342)Cit+(0.0215)Tyr+(-0.1082)Trp;0.798,0.821,0.829,0.830,0.846,0.830,0.789,0.824,(8.1988)+(-0.0401)Asn+(-0.0613)Cit+(0.0139)Tyr+(-0.1387)Trp;0.798,0.817,0.746,0.731,0.738,0.841,0.730,0.760,(4.3924)+(0.0357)Ser+(-0.1271)His+(-0.0019)Ala+(-0.0001)Tyr;0.798,0.823,0.789,0.774,0.789,0.808,0.817,0.797,(4.8783)+(-0.1192)His+(-0.0019)Ala+(-0.1635)Met+(0.1158)Phe;0.798,0.821,0.826,0.831,0.837,0.831,0.786,0.821,(8.2063)+(-0.0422)Asn+(-0.0639)Cit+(0.0089)Arg+(-0.1340)Trp;0.798,0.818,0.805,0.805,0.790,0.845,0.809,0.812,(4.6623)+(-0.0573)Asn+(0.0113)Gln+(-0.1354)His+(-0.0055)Tyr;0.798,0.814,0.768,0.756,0.761,0.819,0.777,0.778,(3.9598)+(0.0084)Gln+(-0.1579)His+(0.0068)Thr+(0.0022)Val;0.798,0.818,0.762,0.738,0.761,0.818,0.787,0.776,(3.5460)+(0.0083)Gln+(-0.1624)His+(0.0164)Orn+(0.0101)Leu;0.798,0.826,0.813,0.812,0.820,0.835,0.786,0.813,(8.9640)+(-0.0665)His+(-0.0357)Cit+(0.0064)Arg+(-0.1005)Trp;0.798,0.820,0.810,0.812,0.798,0.849,0.801,0.815,(4.6253)+(-0.0482)Asn+(0.0126)Gln+(-0.1375)His+(-0.0147)Arg;0.798,0.815,0.794,0.794,0.775,0.844,0.801,0.803,(4.3792)+(-0.0002)Gly+(0.0094)Gln+(-0.1435)His+(-0.0024)Ala;0.798,0.824,0.814,0.817,0.821,0.833,0.780,0.813,(9.3157)+(-0.0055)Asn+(-0.0639)His+(-0.0311)Cit+(-0.0981)Trp;0.798,0.813,0.772,0.763,0.762,0.821,0.781,0.782,(4.1852)+(-0.0007)Gly+(0.0084)Gln+(-0.1540)His+(0.0075)Thr;0.797,0.821,0.792,0.790,0.745,0.856,0.850,0.810,(3.6577)+(-0.0078)Ala+(-0.1927)Met+(0.1786)Ile+(-0.0798)Leu;0.797,0.815,0.723,0.695,0.734,0.823,0.702,0.738,(3.8984)+(0.0379)Ser+(-0.1305)His+(-0.0319)Cit+(0.0068)Pro;0.797,0.817,0.758,0.748,0.703,0.838,0.842,0.783,(5.24

65)+(-0.1585)Asn+(0.0160)Thr+(-0.0586)Val+(0.1690)Ile;0.797,0.819,0.737,0.723,0.745,0.833,0.687,0.747,(4.6686)+(0.0357)Ser+(-0.1320)His+(0.0089)Thr+(-0.0176)Arg;0.797,0.823,0.751,0.726,0.770,0.811,0.738,0.761,(6.5003)+(-0.1343)His+(0.0332)Thr+(-0.2064)Met+(0.0253)Leu;0.797,0.817,0.753,0.727,0.739,0.800,0.814,0.770,(4.8273)+(-0.1367)His+(-0.0198)Val+(0.0301)Leu+(0.0747)Phe;0.797,0.815,0.729,0.706,0.728,0.783,0.755,0.743,(3.8170)+(0.0049)Gly+(-0.1499)His+(-0.0001)Leu+(0.0794)Phe;0.797,0.821,0.814,0.810,0.832,0.812,0.787,0.810,(7.4002)+(-0.0624)Cit+(-0.0741)Met+(0.0194)Leu+(-0.1471)Trp;0.797,0.816,0.756,0.760,0.670,0.836,0.868,0.783,(3.2005)+(-0.0093)Ala+(-0.0266)Tyr+(-0.0505)Val+(0.1708)Ile;0.797,0.820,0.777,0.765,0.778,0.768,0.809,0.780,(4.3872)+(-0.0003)Gly+(-0.0019)Pro+(0.0517)Ile+(-0.1704)Trp;0.797,0.820,0.808,0.819,0.796,0.815,0.802,0.808,(6.1616)+(-0.0005)Gly+(-0.0064)Ala+(0.0108)Pro+(-0.1375)Trp;0.797,0.823,0.760,0.748,0.773,0.821,0.720,0.765,(6.8213)+(-0.1152)His+(0.0272)Thr+(0.0079)Pro+(-0.1747)Met;0.797,0.817,0.762,0.754,0.685,0.844,0.883,0.791,(3.4100)+(-0.0097)Ala+(-0.0508)Val+(-0.0107)Lys+(0.1754)Ile;0.797,0.814,0.793,0.793,0.773,0.843,0.799,0.802,(4.3445)+(0.0093)Gln+(-0.1438)His+(-0.0025)Ala+(0.0005)Lys;0.797,0.822,0.788,0.775,0.788,0.803,0.809,0.794,(4.8147)+(-0.1163)His+(-0.0048)Val+(-0.1711)Met+(0.1229)Phe;0.797,0.822,0.793,0.786,0.794,0.790,0.812,0.796,(5.9055)+(-0.0449)Asn+(-0.0084)Arg+(0.0516)Ile+(-0.1545)Trp;0.797,0.819,0.819,0.830,0.817,0.824,0.790,0.815,(6.8667)+(-0.0547)Asn+(-0.0034)Ala+(0.0277)Orn+(-0.1288)Trp;0.797,0.819,0.804,0.806,0.827,0.815,0.740,0.797,(6.9016)+(0.0025)Gly+(-0.0734)Cit+(0.0049)Val+(-0.1522)Trp;0.797,0.822,0.781,0.760,0.788,0.798,0.811,0.789,(4.7456)+(-0.1227)His+(-0.1802)Met+(0.0040)Leu+(0.1111)Phe;0.797,0.821,0.795,0.809,0.797,0.783,0.761,0.788,(4.3481)+(0.0022)Gln+(0.0042)Thr+(0.0033)Pro+(-0.1590)Trp;0.797,0.820,0.828,0.848,0.824,0.821,0.789,0.821,(4.6

249)+(0.0057)Gln+(-0.1450)Met+(0.0057)Lys+(-0.1400)Trp;0.797,0.823,0.779,0.765,0.781,0.779,0.808,0.784,(4.8584)+(-0.0000)Gly+(-0.0077)Lys+(0.0554)Ile+(-0.1621)Trp;0.797,0.820,0.807,0.818,0.795,0.815,0.798,0.806,(6.0980)+(-0.0064)Ala+(0.0108)Pro+(-0.0003)Val+(-0.1372)Trp;0.797,0.813,0.718,0.679,0.720,0.794,0.763,0.739,(4.7365)+(0.0030)Gly+(-0.1469)His+(0.0098)Thr+(0.0458)Ile;0.797,0.816,0.728,0.706,0.731,0.819,0.713,0.742,(3.8955)+(0.0372)Ser+(-0.1391)His+(-0.0114)Tyr+(0.0063)Val;0.797,0.817,0.754,0.726,0.741,0.822,0.808,0.774,(5.6403)+(-0.1003)His+(-0.0416)Cit+(0.1163)Ile+(-0.0492)Leu;0.797,0.816,0.732,0.717,0.732,0.825,0.705,0.745,(4.3487)+(0.0335)Ser+(-0.1325)His+(0.0052)Thr+(-0.0082)Tyr;0.797,0.822,0.783,0.764,0.788,0.799,0.812,0.791,(4.6736)+(-0.1222)His+(0.0024)Arg+(-0.1793)Met+(0.1154)Phe;0.797,0.823,0.803,0.803,0.822,0.808,0.764,0.799,(7.1993)+(-0.0703)Cit+(0.0087)Pro+(-0.0034)Tyr+(-0.1485)Trp;0.797,0.822,0.811,0.820,0.815,0.805,0.781,0.806,(7.1567)+(-0.0262)Asn+(0.0094)Pro+(-0.1026)Met+(-0.1267)Trp;0.797,0.817,0.783,0.772,0.777,0.832,0.792,0.793,(3.7377)+(0.0114)Gln+(-0.1590)His+(-0.0181)Arg+(0.0128)Leu;0.797,0.824,0.835,0.851,0.830,0.822,0.813,0.829,(5.1801)+(-0.0908)Asn+(0.0063)Gln+(0.0039)Lys+(-0.1421)Trp;0.797,0.820,0.805,0.818,0.792,0.812,0.797,0.805,(5.9182)+(-0.0066)Ala+(0.0107)Pro+(0.0019)Lys+(-0.1400)Trp;0.797,0.817,0.824,0.832,0.831,0.835,0.781,0.820,(7.6100)+(-0.0023)Ala+(-0.0644)Cit+(0.0053)Arg+(-0.1365)Trp;0.797,0.823,0.803,0.796,0.825,0.797,0.778,0.799,(6.8005)+(-0.0741)Cit+(0.0033)Arg+(0.0161)Leu+(-0.1608)Trp;0.797,0.822,0.806,0.805,0.794,0.850,0.803,0.813,(4.1862)+(0.0110)Gln+(-0.1375)His+(0.0115)Tyr+(-0.1147)Met;0.797,0.818,0.781,0.779,0.777,0.837,0.753,0.786,(4.4052)+(0.0102)Gln+(-0.1533)His+(0.0133)Thr+(-0.0238)Arg;0.797,0.819,0.779,0.768,0.779,0.833,0.766,0.787,(4.0932)+(0.0102)Gln+(-0.1510)His+(-0.0206)Arg+(0.0250)Orn;0.797,0.814,0.766,0.746,0.759,0.816,0.795,0.779,(3.55

05)+(0.0091)Gln+(-0.1618)His+(0.0016)Pro+(0.0119)Leu;0.797,0.814,0.77
7,0.777,0.711,0.846,0.867,0.800,(4.1513)+(-0.1525)Asn+(0.0043)Gln+(-0
.0557)Val+(0.1618)Ile;0.797,0.822,0.813,0.824,0.813,0.807,0.789,0.808
,(7.1288)+(-0.0571)Asn+(0.0073)Pro+(-0.0031)Val+(-0.1297)Trp;0.796,0.
818,0.729,0.698,0.733,0.774,0.769,0.744,(4.2035)+(-0.1564)His+(0.0141
)Thr+(-0.0009)Leu+(0.0723)Phe;0.796,0.827,0.770,0.762,0.780,0.775,0.7
66,0.771,(4.8690)+(0.0119)Thr+(-0.0229)Arg+(0.0507)Ile+(-0.1717)Trp;0
.796,0.815,0.772,0.741,0.757,0.839,0.839,0.794,(6.3712)+(-0.1090)His+
(-0.0075)Ala+(-0.0443)Cit+(0.0636)Ile;0.796,0.814,0.780,0.770,0.771,0
.828,0.792,0.790,(3.9839)+(0.0096)Gln+(-0.1540)His+(0.0032)Val+(-0.00
22)Lys;0.796,0.818,0.828,0.836,0.840,0.833,0.778,0.821,(8.4208)+(-0.0
281)Asn+(-0.0554)Cit+(-0.0234)Met+(-0.1290)Trp;0.796,0.823,0.760,0.72
3,0.766,0.818,0.806,0.778,(5.9273)+(-0.1178)His+(-0.1496)Met+(0.0240)
Orn+(0.0555)Ile;0.796,0.817,0.751,0.739,0.751,0.840,0.716,0.762,(4.75
56)+(0.0382)Ser+(-0.1227)His+(-0.0014)Ala+(-0.0130)Arg;0.796,0.819,0.
753,0.735,0.756,0.832,0.740,0.766,(4.7232)+(0.0444)Ser+(-0.0045)Gly+(
-0.1248)His+(-0.0132)Arg;0.796,0.823,0.776,0.771,0.770,0.778,0.800,0.
780,(5.1620)+(-0.0178)Tyr+(-0.0060)Lys+(0.0575)Ile+(-0.1555)Trp;0.796
,0.823,0.832,0.844,0.828,0.816,0.818,0.827,(5.0063)+(-0.0858)Asn+(0.0
063)Gln+(0.0077)Leu+(-0.1455)Trp;0.796,0.820,0.805,0.818,0.791,0.814,
0.794,0.804,(6.1655)+(-0.0062)Ala+(0.0110)Pro+(-0.0045)Tyr+(-0.1358)T
rp;0.796,0.816,0.764,0.745,0.761,0.821,0.777,0.776,(3.8006)+(0.0080)G
ln+(-0.1548)His+(0.0025)Pro+(0.0195)Orn;0.796,0.814,0.728,0.700,0.741
,0.822,0.706,0.742,(3.8866)+(0.0387)Ser+(-0.1361)His+(-0.0334)Cit+(0.
0061)Val;0.796,0.822,0.803,0.798,0.825,0.798,0.777,0.799,(6.9034)+(-0
.0719)Cit+(0.0014)Tyr+(0.0160)Leu+(-0.1600)Trp;0.796,0.820,0.795,0.80
8,0.797,0.782,0.764,0.788,(4.2253)+(0.0021)Gln+(0.0028)Pro+(0.0115)Or
n+(-0.1573)Trp;0.796,0.819,0.780,0.798,0.781,0.780,0.731,0.772,(5.546

3)+(0.0090)Thr+(0.0053)Pro+(-0.0202)Tyr+(-0.1490)Trp;0.796,0.819,0.812,0.822,0.820,0.815,0.769,0.806,(6.8355)+(-0.0357)Asn+(-0.0848)Met+(0.0281)Orn+(-0.1270)Trp;0.796,0.821,0.835,0.855,0.826,0.838,0.799,0.829,(4.8884)+(0.0062)Gln+(-0.0014)Ala+(-0.1186)Met+(-0.1334)Trp;0.796,0.816,0.821,0.828,0.829,0.827,0.777,0.815,(7.4092)+(-0.0025)Ala+(-0.0615)Cit+(0.0046)Lys+(-0.1403)Trp;0.796,0.820,0.829,0.832,0.841,0.838,0.793,0.826,(7.5642)+(-0.0030)Ala+(-0.0639)Cit+(0.0153)Tyr+(-0.1412)Trp;0.796,0.818,0.820,0.828,0.833,0.818,0.770,0.812,(7.4233)+(-0.0550)Cit+(-0.0801)Met+(0.0084)Lys+(-0.1375)Trp;0.796,0.823,0.758,0.743,0.773,0.823,0.720,0.765,(6.6165)+(-0.1229)His+(0.0237)Thr+(-0.1497)Met+(0.0296)Orn;0.796,0.825,0.758,0

.751,0.756,0.844,0.719,0.767,(4.3316)+(0.0389)Ser+(-0.1167)His+(-0.1222)Met+(0.0064)Lys;0.796,0.821,0.835,0.854,0.827,0.824,0.805,0.828,(4.9175)+(-0.0013)Gly+(0.0063)Gln+(-0.1281)Met+(-0.1350)Trp;0.796,0.817,0.810,0.813,0.830,0.809,0.764,0.804,(7.1483)+(-0.0686)Cit+(0.0041)Val+(0.0015)Lys+(-0.1520)Trp;0.796,0.820,0.817,0.827,0.831,0.832,0.748,0.810,(7.6058)+(0.0026)Gly+(-0.0597)Cit+(-0.0516)Met+(-0.1314)Trp;0.796,0.812,0.777,0.766,0.768,0.824,0.789,0.787,(3.9004)+(0.0001)Gly+(0.0093)Gln+(-0.1551)His+(0.0027)Val;0.796,0.816,0.733,0.711,0.733,0.790,0.753,0.747,(3.9803)+(0.0049)Gly+(-0.1474)His+(-0.0028)Lys+(0.0820)Phe;0.796,0.811,0.765,0.753,0.756,0.815,0.776,0.775,(3.9763)+(0.0082)Gln+(-0.1549)His+(0.0061)Thr+(0.0031)Pro;0.796,0.822,0.781,0.769,0.781,0.796,0.804,0.787,(4.8999)+(-0.1199)His+(-0.0172)Tyr+(-0.1525)Met+(0.1200)Phe;0.796,0.820,0.790,0.802,0.795,0.789,0.747,0.783,(5.3746)+(0.0072)Thr+(0.0046)Pro+(-0.0034)Val+(-0.1506)Trp;0.796,0.818,0.729,0.698,0.733,0.775,0.769,0.744,(4.2142)+(-0.1569)His+(0.0143)Thr+(-0.0005)Pro+(0.0717)Phe;0.796,0.815,0.765,0.766,0.702,0.828,0.849,0.786,(5.6816)+(-0.1108)Asn+(-0.0232)Tyr+(-0.0536)Val+(0.1654)Ile;0.796,0.820,0

.809,0.823,0.799,0.819,0.789,0.807,(6.5471)+(-0.0060)Ala+(-0.0095)Arg+(0.0114)Pro+(-0.1344)Trp;0.795,0.813,0.753,0.747,0.671,0.838,0.880,0.784,(3.1109)+(-0.0015)Gln+(-0.0104)Ala+(-0.0531)Val+(0.1738)Ile;0.795,0.813,0.758,0.753,0.674,0.840,0.888,0.789,(2.7127)+(-0.0015)Gly+(-0.0106)Ala+(-0.0530)Val+(0.1719)Ile;0.795,0.822,0.819,0.834,0.818,0.824,0.776,0.813,(4.6492)+(0.0051)Gln+(-0.1435)Met+(0.0205)Orn+(-0.1358)Trp;0.795,0.816,0.745,0.724,0.747,0.829,0.736,0.759,(4.4853)+(0.0419)Ser+(-0.0039)Gly+(-0.1249)His+(-0.0244)Cit;0.795,0.817,0.723,0.678,0.729,0.796,0.778,0.746,(4.9301)+(-0.1483)His+(0.0100)Thr+(0.0159)Orn+(0.0396)Ile;0.795,0.817,0.759,0.756,0.742,0.782,0.787,0.767,(5.0124)+(-0.1292)His+(-0.0383)Tyr+(-0.0040)Val+(0.1048)Phe;0.795,0.821,0.801,0.809,0.812,0.798,0.758,0.794,(6.7093)+(-0.0835)Asn+(0.0174)Thr+(0.0080)Leu+(-0.1493)Trp;0.795,0.819,0.807,0.820,0.805,0.785,0.789,0.800,(4.5297)+(-0.0021)Gly+(0.0032)Gln+(0.0038)Pro+(-0.1562)Trp;0.795,0.819,0.803,0.819,0.800,0.795,0.771,0.796,(4.5135)+(0.0028)Gln+(0.0048)Pro+(-0.0030)Val+(-0.1509)Trp;0.795,0.818,0.801,0.803,0.786,0.845,0.795,0.807,(4.1081)+(0.0105)Gln+(-0.1373)His+(-0.1152)Met+(0.0057)Lys;0.795,0.823,0.840,0.859,0.834,0.832,0.806,0.833,(5.3507)+(-0.0759)Asn+(0.0072)Gln+(-0.0095)Arg+(-0.1368)Trp;0.795,0.820,0.808,0.818,0.812,0.801,0.779,0.802,(6.8034)+(-0.0580)Asn+(0.0007)Gly+(0.0063)Pro+(-0.1352)Trp;0.795,0.816,0.740,0.725,0.746,0.829,0.704,0.751,(4.4936)+(0.0381)Ser+(-0.1286)His+(-0.0152)Arg+(0.0025)Lys;0.795,0.817,0.771,0.756,0.755,0.812,0.817,0.785,(4.9639)+(-0.1314)His+(-0.0038)Ala+(-0.0039)Val+(0.0883)Phe;0.795,0.822,0.757,0.777,0.746,0.790,0.700,0.753,(-2.9829)+(0.0432)Ser+(-0.0128)Val+(-0.3544)Met+(0.1295)Phe;0.795,0.820,0.725,0.688,0.732,0.782,0.767,0.742,(3.9752)+(-0.1577)His+(0.0118)Thr+(0.0163)Orn+(0.0652)Phe;0.795,0.819,0.819,0.822,0.837,0.821,0.771,0.813,(7.6848)+(-0.0618)Cit+(0.0054)Val+(-0.0564)Met+(-0.1408)Trp;0.795,0.816,

0.720,0.677,0.725,0.799,0.766,0.742,(4.6491)+(0.0036)Gly+(-0.1435)His+(0.0184)Orn+(0.0426)Ile;0.795,0.813,0.731,0.712,0.740,0.830,0.692,0.744,(4.3993)+(0.0348)Ser+(-0.1296)His+(0.0060)Thr+(-0.0327)Cit;0.795,0.821,0.804,0.820,0.819,0.810,0.728,0.794,(7.3973)+(-0.0721)Asn+(0.0212)Thr+(-0.0126)Arg+(-0.1419)Trp;0.795,0.818,0.803,0.814,0.809,0.800,0.766,0.797,(6.5998)+(0.0006)Gly+(0.0096)Pro+(-0.1280)Met+(-0.1289)Trp;0.795,0.818,0.812,0.812,0.833,0.812,0.768,0.806,(7.1801)+(-0.0697)Cit+(0.0045)Tyr+(0.0042)Val+(-0.1528)Trp;0.795,0.818,0.797,0.818,0.790,0.789,0.761,0.790,(4.5934)+(0.0032)Gln+(0.0055)Pro+(-0.0180)Tyr+(-0.1486)Trp;0.795,0.820,0.724,0.693,0.729,0.789,0.751,0.740,(3.5563)+(0.0043)Gly+(-0.1527)His+(0.0195)Orn+(0.0707)Phe;0.795,0.819,0.811,0.812,0.830,0.812,0.767,0.805,(7.1257)+(-0.0715)Cit+(0.0035)Arg+(0.0045)Val+(-0.1523)Trp;0.795,0.818,0.770,0.762,0.762,0.821,0.771,0.779,(4.2417)+(0.0080)Gln+(-0.1462)His+(-0.0173)Tyr+(0.0256)Orn;0.795,0.824,0.762,0.753,0.766,0.850,0.712,0.770,(4.8638)+(0.0399)Ser+(-0.1076)His+(-0.0267)Cit+(-0.0924)Met;0.795,0.825,0.836,0.855,0.828,0.827,0.811,0.830,(5.3174)+(-0.0830)Asn+(0.0067)Gln+(-0.0030)Tyr+(-0.1373)Trp;0.795,0.824,0.837,0.851,0.836,0.833,0.806,0.832,(4.5966)+(0.0061)Gln+(0.0207)Tyr+(-0.1632)Met+(-0.1400)Trp;0.795,0.814,0.783,0.777,0.770,0.831,0.789,0.792,(4.1774)+(-0.0002)Gly+(0.0094)Gln+(-0.1490)His+(-0.0008)Lys;0.795,0.814,0.802,0.805,0.786,0.849,0.793,0.808,(4.4668)+(0.0113)Gln+(-0.1422)His+(-0.0018)Ala+(-0.0169)Arg;0.795,0.813,0.743,0.709,0.743,0.811,0.784,0.762,(5.9147)+(-0.1288)His+(-0.0239)Val+(0.0349)Orn+(0.0441)Leu;0.795,0.814,0.727,0.701,0.728,0.779,0.754,0.740,(3.7642)+(0.0048)Gly+(-0.1502)His+(0.0013)Pro+(0.0776)Phe;0.795,0.819,0.810,0.814,0.831,0.825,0.747,0.804,(7.0043)+(0.0023)Gly+(-0.0691)Cit+(0.0087)Tyr+(-0.1469)Trp;0.795,0.814,0.793,0.794,0.774,0.843,0.796,0.802,(4.4223)+(0.0094)Gln+(-0.1418)His+(-0.0022)Ala+(-0.0046)Tyr;0.794,0.818,0.8

11,0.809,0.801,0.849,0.808,0.817,(4.7208)+(-0.0608)Asn+(0.0121)Gln+(-0.1298)His+(-0.0363)Cit;0.794,0.816,0.808,0.816,0.824,0.819,0.746,0.801,(6.9669)+(0.0020)Gly+(-0.0670)Cit+(0.0029)Lys+(-0.1462)Trp;0.794,0.819,0.764,0.744,0.746,0.812,0.821,0.781,(4.8199)+(-0.1329)His+(-0.0063)Ala+(0.0067)Pro+(0.0773)Phe;0.794,0.817,0.765,0.760,0.751,0.783,0.793,0.772,(5.3628)+(-0.0239)Asn+(-0.1267)His+(-0.0396)Tyr+(0.1004)Phe;0.794,0.814,0.750,0.745,0.664,0.839,0.877,0.781,(2.3867)+(-0.0118)Ala+(0.0048)Pro+(-0.0530)Val+(0.1677)Ile;0.794,0.818,0.827,0.835,0.837,0.834,0.779,0.821,(8.0065)+(-0.0012)Ala+(-0.0560)Cit+(-0.0378)Met+(-0.1296)Trp;0.794,0.812,0.771,0.759,0.761,0.820,0.788,0.782,(3.8414)+(0.0091)Gln+(-0.1544)His+(0.0033)Pro+(0.0014)Val;0.794,0.819,0.737,0.706,0.733,0.798,0.782,0.755,(5.7993)+(-0.1308)His+(-0.0334)Tyr+(0.0274)Orn+(0.0466)Ile;0.794,0.817,0.786,0.780,0.733,0.869,0.851,0.808,(3.5813)+(-0.0122)Ala+(-0.0882)Cit+(0.1799)Ile+(-0.0834)Leu;0.794,0.819,0.768,0.763,0.747,0.800,0.804,0.779,(5.1322)+(-0.1291)His+(-0.0029)Ala+(-0.0349)Tyr+(0.1006)Phe;0.794,0.820,0.809,0.815,0.796,0.852,0.790,0.813,(4.4352)+(0.0121)Gln+(-0.1349)His+(-0.0136)Arg+(-0.0794)Met;0.794,0.818,0.810,0.819,0.818,0.805,0.774,0.804,(6.6205)+(-0.0627)Asn+(0.0000)Gly+(0.0241)Orn+(-0.1347)Trp;0.794,0.817,0.823,0.830,0.836,0.830,0.776,0.818,(7.6964)+(-0.0610)Cit+(0.0080)Arg+(-0.0585)Met+(-0.1326)Trp;0.794,0.812,0.774,0.764,0.763,0.824,0.785,0.784,(4.0149)+(0.0091)Gln+(-0.1504)His+(0.0039)Pro+(-0.0017)Lys;0.794,0.823,0.813,0.815,0.819,0.833,0.778,0.811,(9.2088)+(-0.0656)His+(-0.0312)Cit+(0.0011)Met+(-0.0987)Trp;0.794,0.814,0.749,0.736,0.748,0.844,0.720,0.762,(4.6736)+(0.0367)Ser+(-0.1187)His+(-0.0021)Ala+(-0.0308)Cit;0.794,0.817,0.792,0.802,0.800,0.778,0.763,0.786,(5.4902)+(-0.0022)Gly+(0.0083)Thr+(0.0035)Pro+(-0.1571)Trp;0.794,0.819,0.780,0.766,0.781,0.781,0.810,0.785,(4.8934)+(-0.0016)Pro+(-0.0076)Lys+(0.0573)Ile+(-0.1615)Trp;0.794,0.818

,0.803,0.818,0.802,0.794,0.773,0.797,(4.4401)+(0.0031)Gln+(0.0041)Pro+(-0.0027)Lys+(-0.1529)Trp;0.794,0.817,0.779,0.763,0.765,0.818,0.824,0.792,(5.3555)+(-0.0267)Asn+(-0.1274)His+(-0.0042)Ala+(0.0842)Phe;0.794,0.817,0.745,0.737,0.731,0.767,0.780,0.754,(4.8358)+(-0.1331)His+(0.0047)Pro+(-0.0458)Tyr+(0.0962)Phe;0.794,0.815,0.755,0.748,0.740,0.778,0.787,0.763,(4.9915)+(-0.1336)His+(-0.0410)Tyr+(0.0008)Leu+(0.0980)Phe;0.794,0.813,0.739,0.722,0.744,0.833,0.706,0.751,(4.4895)+(0.0370)Ser+(-0.1239)His+(-0.0295)Cit+(-0.0010)Lys;0.794,0.811,0.771,0.761,0.760,0.820,0.785,0.782,(3.9298)+(0.0000)Gly+(0.0090)Gln+(-0.1519)His+(0.0037)Pro;0.794,0.819,0.791,0.804,0.798,0.794,0.741,0.784,(5.2086)+(0.0058)Thr+(-0.0040)Val+(0.0174)Orn+(-0.1487)Trp;0.794,0.814,0.771,0.760,0.760,0.814,0.793,0.782,(3.8622)+(0.0093)Gln+(-0.1558)His+(-0.0172)Tyr+(0.0152)Leu;0.794,0.815,0.790,0.786,0.784,0.835,0.781,0.797,(4.0522)+(0.0114)Gln+(-0.1525)His+(-0.0182)Arg+(0.0029)Val;0.794,0.814,0.737,0.693,0.739,0.805,0.797,0.759,(5.2857)+(-0.1401)His+(-0.0027)Pro+(0.0219)Orn+(0.0430)Ile;0.794,0.818,0.783,0.799,0.785,0.780,0.741,0.776,(5.3728)+(0.0049)Pro+(-0.0196)Tyr+(0.0179)Orn+(-0.1443)Trp;0.794,0.823,0.760,0.753,0.762,0.852,0.710,0.769,(4.8597)+(0.0406)Ser+(-0.1126)His+(-0.0087)Arg+(-0.0826)Met;0.794,0.819,0.785,0.794,0.794,0.780,0.745,0.778,(4.8860)+(0.0044)Thr+(0.0028)Pro+(0.0122)Orn+(-0.1566)Trp;0.794,0.822,0.786,0.765,0.798,0.804,0.803,0.792,(4.9928)+(-0.1161)His+(-0.0267)Cit+(-0.1690)Met+(0.1162)Phe;0.794,0.814,0.732,0.703,0.746,0.779,0.746,0.744,(4.7185)+(-0.1542)His+(0.0197)Thr+(-0.0183)Arg+(0.0758)Phe;0.794,0.814,0.771,0.770,0.758,0.823,0.763,0.779,(4.4318)+(0.0081)Gln+(-0.1473)His+(0.0096)Thr+(-0.0152)Tyr;0.793,0.812,0.772,0.752,0.770,0.823,0.794,0.785,(3.6796)+(0.0100)Gln+(-0.1553)His+(-0.0373)Cit+(0.0142)Leu;0.793,0.821,0.814,0.814,0.805,0.816,0.829,0.816,(7.1729)+(-0.0610)Asn+(-0.0258)Val+(0.0528)Leu+(-0.1323)Trp;0.793,0.816,0.

802,0.813,0.798,0.818,0.767,0.799,(5.5377)+(0.0084)Thr+(-0.0052)Ala+(0.0187)Orn+(-0.1462)Trp;0.793,0.820,0.797,0.799,0.792,0.790,0.808,0.797,(5.7213)+(-0.0004)Gly+(-0.0233)Val+(0.0468)Leu+(-0.1503)Trp;0.793,0.811,0.758,0.752,0.698,0.836,0.843,0.782,(4.9632)+(-0.1323)Asn+(0.0030)Gly+(-0.0559)Val+(0.1661)Ile;0.793,0.818,0.808,0.820,0.810,0.799,0.779,0.802,(6.9911)+(-0.0538)Asn+(0.0069)Pro+(-0.0065)Tyr+(-0.1330)Trp;0.793,0.818,0.793,0.800,0.800,0.775,0.768,0.786,(5.2469)+(-0.0015)Gly+(0.0033)Pro+(0.0155)Orn+(-0.1526)Trp;0.793,0.819,0.797,0.799,0.792,0.794,0.807,0.798,(5.7633)+(-0.0233)Val+(-0.0017)Lys+(0.0479)Leu+(-0.1490)Trp;0.793,0.817,0.743,0.730,0.747,0.832,0.704,0.753,(4.6386)+(0.0384)Ser+(-0.1256)His+(-0.0137)Arg+(-0.0012)Tyr;0.793,0.815,0.738,0.721,0.737,0.830,0.718,0.751,(4.3104)+(0.0357)Ser+(-0.1297)His+(-0.0041)Tyr+(-0.0005)Lys;0.793,0.817,0.756,0.734,0.742,0.813,0.802,0.773,(5.8400)+(-0.1048)His+(-0.0115)Arg+(0.1150)Ile+(-0.0497)Leu;0.793,0.818,0.742,0.710,0.745,0.792,0.784,0.758,(4.2715)+(-0.1456)His+(0.0234)Orn+(-0.0041)Leu+(0.0689)Phe;0.793,0.817,0.769,0.749,0.755,0.817,0.819,0.785,(4.9473)+(-0.1355)His+(-0.0047)Ala+(0.0032)Leu+(0.0782)Phe;0.793,0.819,0.796,0.800,0.790,0.791,0.802,0.795,(5.7882)+(-0.0059)Tyr+(-0.0229)Val+(0.0470)Leu+(-0.1481)Trp;0.793,0.817,0.730,0.713,0.732,0.796,0.723,0.741,(-1.3207)+(0.05

08)Ser+(-0.0639)Asn+(-0.2962)Met+(0.0628)Ile;0.793,0.811,0.730,0.695,0.728,0.801,0.776,0.750,(4.9750)+(0.0041)Gly+(-0.1387)His+(-0.0017)Pro+(0.0502)Ile;0.793,0.818,0.808,0.818,0.811,0.789,0.789,0.802,(6.6626)+(-0.0663)Asn+(0.0059)Pro+(0.0054)Lys+(-0.1409)Trp;0.793,0.811,0.755,0.750,0.671,0.843,0.882,0.787,(2.5010)+(-0.0011)Thr+(-0.0106)Ala+(-0.0527)Val+(0.1714)Ile;0.793,0.819,0.717,0.730,0.727,0.754,0.637,0.712,(-4.0542)+(0.0432)Ser+(0.0123)Thr+(-0.4310)Met+(0.1100)Phe;0.793,0.821,0.828,0.849,0.823,0.822,0.791,0.821,(4.7049)+(0.0061)Gln+(0.0017)V

al+(-0.1336)Met+(-0.1371)Trp;0.793,0.818,0.806,0.807,0.791,0.815,0.832,0.811,(6.0291)+(-0.0044)Ala+(-0.0226)Val+(0.0515)Leu+(-0.1440)Trp;0.793,0.818,0.802,0.817,0.804,0.799,0.762,0.796,(4.5064)+(0.0023)Gln+(-0.0036)Val+(0.0170)Orn+(-0.1490)Trp;0.793,0.812,0.779,0.773,0.767,0.823,0.784,0.787,(4.0739)+(0.0095)Gln+(-0.1508)His+(-0.0136)Tyr+(0.0040)Val;0.793,0.819,0.806,0.816,0.810,0.800,0.771,0.800,(6.7276)+(0.0098)Pro+(-0.0007)Val+(-0.1253)Met+(-0.1279)Trp;0.793,0.815,0.815,0.831,0.804,0.821,0.793,0.812,(4.6454)+(0.0030)Gln+(-0.0051)Ala+(0.0192)Orn+(-0.1451)Trp;0.793,0.820,0.737,0.739,0.762,0.775,0.654,0.732,(-2.9234)+(0.0492)Ser+(-0.0820)Cit+(-0.3672)Met+(0.1201)Phe;0.793,0.819,0.809,0.811,0.798,0.855,0.793,0.814,(4.4666)+(0.0114)Gln+(-0.1279)His+(-0.0329)Cit+(-0.0924)Met;0.793,0.809,0.757,0.755,0.676,0.839,0.871,0.785,(2.5150)+(-0.0104)Ala+(-0.0420)Val+(0.1936)Ile+(-0.0332)Leu;0.793,0.819,0.797,0.808,0.798,0.781,0.778,0.791,(4.1726)+(0.0026)Gln+(0.0031)Pro+(0.0052)Leu+(-0.1610)Trp;0.792,0.814,0.770,0.756,0.763,0.794,0.807,0.780,(5.3883)+(-0.0391)Asn+(-0.1240)His+(-0.0075)Val+(0.0916)Phe;0.792,0.818,0.786,0.793,0.795,0.772,0.760,0.780,(4.8904)+(0.0029)Pro+(0.0133)Orn+(0.0037)Leu+(-0.1563)Trp;0.792,0.816,0.813,0.831,0.802,0.824,0.783,0.810,(4.8490)+(0.0030)Gln+(0.0089)Thr+(-0.0049)Ala+(-0.1496)Trp;0.792,0.813,0.748,0.727,0.741,0.784,0.794,0.761,(4.6817)+(-0.1369)His+(0.0030)Pro+(-0.0069)Val+(0.0830)Phe;0.792,0.818,0.810,0.816,0.826,0.824,0.748,0.803,(7.1069)+(0.0021)Gly+(-0.0687)Cit+(0.0032)Arg+(-0.1433)Trp;0.792,0.820,0.811,0.811,0.807,0.814,0.817,0.812,(6.6932)+(-0.0252)Val+(-0.1254)Met+(0.0579)Leu+(-0.1302)Trp;0.792,0.817,0.810,0.816,0.818,0.806,0.780,0.805,(6.5554)+(0.0089)Pro+(0.0137)Tyr+(-0.1457)Met+(-0.1323)Trp;0.792,0.815,0.758,0.726,0.757,0.807,0.808,0.775,(5.8081)+(0.0346)Asn+(-0.1175)His+(-0.1779)Met+(0.0657)Ile;0.792,0.810,0.735,0.706,0.730,0.806,0.771,0.753,(6.0548)+(-0.1392)His+(0.0171)T

hr+(-0.0221)Val+(0.0463)Leu;0.792,0.819,0.791,0.799,0.800,0.784,0.754,0.784,(5.2008)+(0.0035)Pro+(0.0167)Orn+(-0.0030)Lys+(-0.1490)Trp;0.792,0.819,0.776,0.767,0.785,0.772,0.783,0.777,(4.9353)+(-0.0174)Arg+(0.0094)Orn+(0.0493)Ile+(-0.1645)Trp;0.792,0.819,0.788,0.799,0.796,0.787,0.744,0.782,(5.3983)+(0.0084)Thr+(0.0038)Pro+(-0.0034)Lys+(-0.1530)Trp;0.792,0.818,0.810,0.819,0.817,0.800,0.777,0.803,(6.5263)+(-0.0674)Asn+(0.0224)Orn+(0.0030)Lys+(-0.1377)Trp;0.792,0.818,0.795,0.808,0.800,0.788,0.753,0.787,(4.3072)+(0.0020)Gln+(0.0035)Thr+(0.0118)Orn+(-0.1579)Trp;0.792,0.813,0.784,0.780,0.776,0.832,0.777,0.791,(4.0812)+(0.0111)Gln+(-0.1491)His+(-0.0190)Arg+(0.0045)Pro;0.792,0.818,0.806,0.813,0.811,0.789,0.788,0.800,(6.6448)+(-0.0569)Asn+(0.0052)Pro+(0.0066)Leu+(-0.1416)Trp;0.792,0.818,0.801,0.817,0.805,0.798,0.755,0.794,(4.6485)+(0.0027)Gln+(0.0076)Thr+(-0.0044)Lys+(-0.1539)Trp;0.792,0.821,0.725,0.704,0.742,0.803,0.693,0.735,(-0.9826)+(0.0474)Ser+(-0.0748)Cit+(-0.3327)Met+(0.0706)Ile;0.792,0.817,0.738,0.704,0.742,0.790,0.785,0.755,(4.2702)+(-0.1473)His+(0.0001)Pro+(0.0223)Orn+(0.0641)Phe;0.792,0.813,0.740,0.697,0.745,0.806,0.798,0.761,(5.5647)+(-0.0220)Asn+(-0.1333)His+(0.0223)Orn+(0.0392)Ile;0.792,0.811,0.734,0.699,0.734,0.803,0.777,0.753,(5.3202)+(-0.0282)Asn+(0.0049)Gly+(-0.1312)His+(0.0487)Ile;0.792,0.816,0.795,0.816,0.793,0.791,0.748,0.787,(4.7351)+(0.0027)Gln+(0.0078)Thr+(-0.0164)Tyr+(-0.1516)Trp;0.792,0.809,0.764,0.759,0.703,0.833,0.855,0.787,(5.1704)+(-0.1186)Asn+(-0.0510)Val+(0.1747)Ile+(-0.0151)Leu;0.792,0.814,0.729,0.693,0.734,0.797,0.764,0.747,(5.6372)+(-0.1424)His+(0.0166)Thr+(-0.0144)Arg+(0.0439)Ile;0.792,0.810,0.819,0.833,0.822,0.804,0.787,0.812,(7.0513)+(-0.0376)Asn+(-0.0881)Met+(0.0101)Lys+(-0.1344)Trp;0.791,0.816,0.797,0.810,0.800,0.786,0.766,0.790,(5.5709)+(0.0057)Pro+(-0.0030)Val+(0.0008)Lys+(-0.1456)Trp;0.791,0.812,0.749,0.742,0.666,0.842,0.875,0.781,(2.1043)+(-0.0110)Ala+(-0.0538)Val+(

0.0144)Orn+(0.1687)Ile;0.791,0.820,0.821,0.834,0.821,0.808,0.797,0.81
5,(4.3573)+(0.0059)Gln+(-0.1557)Met+(0.0149)Leu+(-0.1434)Trp;0.791,0.
814,0.738,0.693,0.742,0.807,0.796,0.760,(5.4865)+(-0.1342)His+(0.0238
)Orn+(-0.0060)Lys+(0.0431)Ile;0.791,0.817,0.793,0.801,0.804,0.782,0.7
60,0.787,(5.3321)+(-0.0024)Gly+(0.0071)Thr+(0.0140)Orn+(-0.1565)Trp;0
.791,0.815,0.783,0.800,0.788,0.783,0.727,0.774,(5.3480)+(0.0076)Thr+(
-0.0189)Tyr+(0.0168)Orn+(-0.1481)Trp;0.791,0.820,0.834,0.856,0.829,0.
833,0.785,0.826,(4.9081)+(0.0067)Gln+(-0.0082)Arg+(-0.1199)Met+(-0.13
32)Trp;0.791,0.816,0.801,0.818,0.803,0.795,0.759,0.794,(4.6004)+(0.00
25)Gln+(0.0061)Thr+(-0.0021)Val+(-0.1540)Trp;0.791,0.816,0.771,0.752,
0.756,0.817,0.818,0.786,(4.9656)+(-0.1342)His+(-0.0044)Ala+(-0.0003)L
ys+(0.0820)Phe;0.791,0.817,0.807,0.819,0.810,0.788,0.781,0.799,(4.744
3)+(-0.0030)Gly+(0.0028)Gln+(0.0073)Thr+(-0.1593)Trp;0.791,0.816,0.81
4,0.818,0.832,0.813,0.768,0.808,(7.1461)+(-0.0652)Cit+(0.0052)Tyr+(0.
0027)Lys+(-0.1482)Trp;0.791,0.818,0.805,0.816,0.811,0.801,0.767,0.799
,(6.7986)+(-0.0030)Arg+(0.0097)Pro+(-0.1216)Met+(-0.1285)Trp;0.791,0.
817,0.793,0.804,0.799,0.783,0.763,0.787,(4.2226)+(0.0022)Gln+(0.0050)
Thr+(0.0064)Leu+(-0.1638)Trp;0.791,0.813,0.794,0.797,0.783,0.840,0.77
8,0.800,(4.3934)+(0.0113)Gln+(-0.1438)His+(-0.0175)Arg+(-0.0060)Tyr;0
.791,0.810,0.766,0.760,0.710,0.832,0.850,0.788,(5.5195)+(-0.1073)Asn+
(-0.0113)Arg+(-0.0564)Val+(0.1676)Ile;0.791,0.811,0.766,0.760,0.706,0
.835,0.860,0.790,(5.2800)+(-0.1228)Asn+(-0.0007)Pro+(-0.0559)Val+(0.1
657)Ile;0.791,0.817,0.783,0.789,0.792,0.771,0.755,0.777,(4.9420)+(0.0
064)Thr+(0.0028)Pro+(0.0057)Leu+(-0.1615)Trp;0.791,0.811,0.785,0.783,
0.770,0.827,0.789,0.792,(4.3367)+(-0.0005)Gly+(0.0095)Gln+(-0.1447)Hi
s+(-0.0098)Tyr;0.791,0.814,0.793,0.793,0.782,0.841,0.779,0.799,(4.270
3)+(0.0003)Gly+(0.0113)Gln+(-0.1468)His+(-0.0180)Arg;0.791,0.816,0.74
0,0.702,0.740,0.785,0.804,0.758,(4.5506)+(-0.1424)His+(-0.0081)Arg+(0

.0326)Ile+(0.0531)Phe;0.791,0.813,0.811,0.822,0.812,0.820,0.773,0.807,(6.3794)+(-0.0023)Ala+(-0.0982)Met+(0.0284)Orn+(-0.1276)Trp;0.791,0.810,0.771,0.768,0.757,0.817,0.775,0.779,(4.1725)+(0.0090)Gln+(-0.1443)His+(0.0056)Pro+(-0.0173)Tyr;0.791,0.813,0.731,0.706,0.722,0.795,0.773,0.749,(5.5010)+(0.0036)Gly+(-0.1299)His+(-0.0242)Tyr+(0.0538)Ile;0.791,0.813,0.773,0.756,0.763,0.815,0.813,0.786,(5.1902)+(-0.1318)His+(-0.0043)Ala+(-0.0067)Arg+(0.0838)Phe;0.791,0.812,0.739,0.723,0.743,0.831,0.706,0.751,(4.5062)+(0.0367)Ser+(-0.1233)His+(-0.0294)Cit+(-0.0033)Tyr;0.791,0.816,0.749,0.763,0.736,0.788,0.713,0.750,(-3.4182)+(0.0445)Ser+(-0.0038)Ala+(-0.3510)Met+(0.1089)Phe;0.791,0.813,0.743,0.728,0.751,0.835,0.700,0.753,(4.6826)+(0.0384)Ser+(-0.1225)His+(-0.0210)Cit+(-0.0102)Arg;0.791,0.820,0.751,0.719,0.757,0.793,0.792,0.765,(4.7748)+(-0.0344)Asn+(-0.1375)His+(0.0239)Orn+(0.0668)Phe;0.791,0.813,0.742,0.741,0.662,0.848,0.840,0.772,(-0.5224)+(0.0214)Ser+(-0.0128)Ala+(0.1699)Ile+(-0.0850)Leu;0.791,0.812,0.700,0.678,0.644,0.816,0.793,0.733,(0.4864)+(0.0275)Ser+(-0.0505)Val+(-0.0229)Lys+(0.1585)Ile;0.791,0.816,0.758,0.750,0.749,0.782,0.780,0.765,(5.2386)+(-0.1269)His+(-0.0307)Cit+(-0.0407)Tyr+(0.1029)Phe;0.791,0.818,0.808,0.819,0.815,0.803,0.769,0.801,(6.7191)+(-0.0600)Asn+(-0.0071)Tyr+(0.0256)Orn+(-0.1318)Trp;0.790,0.817,0.809,0.819,0.820,0.806,0.761,0.802,(6.8162)+(-0.0537)Asn+(-0.0092)Arg+(0.0272)Orn+(-0.1333)Trp;0.790,0.815,0.754,0.748,0.738,0.775,0.786,0.762,(4.9038)+(-0.1350)His+(-0.0424)Tyr+(0.0020)Lys+(0.0980)Phe;0.790,0.810,0.774,0.766,0.767,0.830,0.767,0.782,(4.3234)+(0.0088)Gln+(-0.1468)His+(0.0086)Thr+(-0.0368)Cit;0.790,0.819,0.777,0.768,0.782,0.773,0.789,0.778,(4.9499)+(0.0006)Gly+(-0.0155)Arg+(0.0527)Ile+(-0.1643)Trp;0.790,0.814,0.793,0.807,0.800,0.796,0.739,0.786,(5.6387)+(0.0101)Thr+(-0.0014)Val+(-0.0025)Lys+(-0.1496)Trp;0.790,0.817,0.797,0.810,0.803,0.795,0.753,0.790,(5.4322)+(-0.0034)Val+(0.0216)Orn

+(-0.0013)Lys+(-0.1425)Trp;0.790,0.810,0.765,0.758,0.704,0.832,0.859,0.788,(5.2604)+(-0.1247)Asn+(-0.0561)Val+(0.0006)Lys+(0.1647)Ile;0.790,0.816,0.813,0.818,0.829,0.814,0.762,0.806,(7.1959)+(-0.0646)Cit+(0.0010)Arg+(0.0030)Lys+(-0.1461)Trp;0.790,0.817,0.800,0.805,0.807,0.789,0.778,0.795,(6.3324)+(0.0080)Pro+(-0.1421)Met+(0.0120)Leu+(-0.1369)Trp;0.790,0.810,0.781,0.768,0.777,0.829,0.786,0.790,(3.9663)+(0.0101)Gln+(-0.1495)His+(-0.0370)Cit+(0.0039)Val;0.790,0.817,0.807,0.814,0.816,0.800,0.778,0.802,(6.4424)+(-0.0627)Asn+(0.0218)Orn+(0.0050)Leu+(-0.1395)Trp;0.790,0.814,0.726,0.703,0.719,0.790,0.753,0.742,(-2.0214)+(0.0551)Ser+(-0.0062)Gly+(-0.3540)Met+(0.0650)Ile;0.790,0.817,0.817,0.819,0.834,0.821,0.772,0.812,(7.2666)+(-0.0667)Cit+(0.0025)Arg+(0.0066)Tyr+(-0.1461)Trp;0.790,0.815,0.806,0.818,0.814,0.812,0.756,0.800,(6.3087)+(-0.0014)Val+(-0.1119)Met+(0.0278)Orn+(-0.1281)Trp;0.790,0.814,0.797,0.802,0.793,0.811,0.783,0.797,(5.4205)+(0.0114)Thr+(-0.0059)Ala+(0.0139)Leu+(-0.1565)Trp;0.790,0.810,0.726,0.683,0.736,0.799,0.767,0.746,(5.3815)+(-0.1368)His+(0.0133)Thr+(-0.0381)Cit+(0.0459)Ile;0.790,0.816,0.810,0.819,0.816,0.800,0.779,0.803,(7.0359)+(-0.0505)Asn+(-0.0054)Arg+(0.0067)Pro+(-0.1347)Trp;0.790,0.815,0.801,0.812,0.804,0.787,0.774,0.794,(5.8122)+(-0.0010)Gly+(0.0058)Pro+(-0.0028)Val+(-0.1445)Trp;0.790,0.812,0.734,0.715,0.738,0.788,0.738,0.745,(4.1078)+(0.0056)Gly+(-0.1460)His+(-0.0114)Arg+(0.0839)Phe;0.790,0.815,0.793,0.810,0.793,0.789,0.755,0.787,(5.8937)+(0.0069)Pro+(-0.0129)Tyr+(-0.0021)Val+(-0.1400)Trp;0.790,0.814,0.805,0.817,0.813,0.804,0.758,0.798,(6.0429)+(-0.1283)Met+(0.0237)Orn+(0.0051)Lys+(-0.1350)Trp;0.790,0.818,0.789,0.800,0.800,0.792,0.737,0.782,(5.2710)+(0.0075)Thr+(0.0159)Orn+(-0.0048)Lys+(-0.1509)Trp;0.790,0.818,0.795,0.805,0.801,0.782,0.769,0.789,(4.1451)+(0.0023)Gln+(0.0115)Orn+(0.0047)Leu+(-0.1600)Trp;0.790,0.808,0.749,0.714,0.746,0.802,0.807,0.767,(5.8948)+(-0.0147)Asn+(-0.1293)His

+(-0.0014)Pro+(0.0472)Ile;0.7
90,0.819,0.743,0.708,0.749,0.795,0.786,0.759,(4.5188)+(-0.1428)His+(0
.0251)Orn+(-0.0052)Lys+(0.0681)Phe;0.790,0.815,0.793,0.809,0.797,0.79
4,0.744,0.786,(5.6054)+(-0.0127)Tyr+(-0.0030)Val+(0.0234)Orn+(-0.1387
)Trp;0.790,0.810,0.782,0.781,0.768,0.827,0.785,0.790,(4.2816)+(0.0093
)Gln+(-0.1452)His+(-0.0097)Tyr+(0.0004)Lys;0.790,0.811,0.760,0.738,0.
757,0.789,0.800,0.771,(5.1420)+(-0.0301)Asn+(-0.1336)His+(-0.0019)Leu
+(0.0786)Phe;0.790,0.816,0.801,0.813,0.805,0.790,0.767,0.794,(5.6368)
+(-0.0017)Gly+(-0.0038)Val+(0.0220)Orn+(-0.1431)Trp;0.789,0.811,0.817
,0.834,0.817,0.800,0.788,0.810,(7.0580)+(-0.0637)Asn+(-0.0024)Val+(0.
0077)Lys+(-0.1347)Trp;0.789,0.811,0.810,0.822,0.806,0.819,0.778,0.806
,(6.2367)+(-0.0022)Gly+(0.0136)Thr+(-0.0044)Ala+(-0.1473)Trp;0.789,0.
811,0.789,0.789,0.780,0.834,0.775,0.795,(4.1037)+(0.0112)Gln+(-0.1507
)His+(-0.0206)Arg+(0.0040)Lys;0.789,0.811,0.744,0.718,0.743,0.780,0.7
91,0.758,(4.6107)+(-0.1427)His+(0.0017)Pro+(-0.0019)Leu+(0.0736)Phe;0
.789,0.811,0.730,0.694,0.729,0.802,0.777,0.751,(5.1205)+(0.0042)Gly+(
-0.1347)His+(-0.0039)Lys+(0.0506)Ile;0.789,0.818,0.802,0.815,0.806,0.
794,0.762,0.794,(4.4356)+(0.0027)Gln+(0.0160)Orn+(-0.0042)Lys+(-0.150
6)Trp;0.789,0.819,0.780,0.771,0.785,0.778,0.798,0.783,(5.2152)+(-0.01
24)Arg+(-0.0041)Lys+(0.0550)Ile+(-0.1604)Trp;0.789,0.813,0.808,0.820,
0.804,0.815,0.778,0.804,(5.7580)+(-0.0044)Ala+(-0.0013)Val+(0.0243)Or
n+(-0.1377)Trp;0.789,0.818,0.778,0.770,0.785,0.772,0.792,0.780,(5.052
1)+(-0.0150)Arg+(-0.0004)Pro+(0.0528)Ile+(-0.1641)Trp;0.789,0.810,0.7
37,0.693,0.740,0.793,0.806,0.758,(4.4840)+(-0.1378)His+(-0.0364)Cit+(
0.0348)Ile+(0.0535)Phe;0.789,0.815,0.757,0.753,0.745,0.780,0.780,0.76
4,(5.2142)+(-0.1311)His+(-0.0059)Arg+(-0.0400)Tyr+(0.1004)Phe;0.789,0
.816,0.785,0.800,0.800,0.788,0.710,0.775,(5.9430)+(0.0135)Thr+(-0.020
4)Arg+(0.0047)Pro+(-0.1543)Trp;0.789,0.814,0.806,0.821,0.801,0.824,0.

760,0.802,(6.0125)+(0.0127)Thr+(-0.0044)Ala+(-0.0015)Lys+(-0.1451)Trp;0.789,0.814,0.789,0.809,0.793,0.788,0.731,0.780,(5.7489)+(0.0108)Thr+(-0.0135)Tyr+(-0.0011)Val+(-0.1473)Trp;0.789,0.812,0.755,0.735,0.748,0.789,0.797,0.767,(4.7910)+(-0.1367)His+(-0.0060)Val+(-0.0002)Lys+(0.0851)Phe;0.789,0.815,0.810,0.817,0.820,0.811,0.766,0.804,(6.1463)+(0.0138)Tyr+(-0.1351)Met+(0.0247)Orn+(-0.1334)Trp;0.789,0.817,0.807,0.819,0.810,0.788,0.784,0.800,(4.5093)+(-0.0024)Gly+(0.0027)Gln+(0.0140)Orn+(-0.1556)Trp;0.789,0.814,0.764,0.732,0.765,0.809,0.812,0.780,(6.2406)+(-0.1108)His+(0.0018)Pro+(-0.1490)Met+(0.0594)Ile;0.789,0.816,0.766,0.734,0.764,0.811,0.818,0.782,(6.1668)+(-0.1127)His+(0.0035)Arg+(-0.1490)Met+(0.0619)Ile;0.789,0.810,0.788,0.782,0.779,0.837,0.785,0.796,(4.3303)+(0.0100)Gln+(-0.1413)His+(-0.0346)Cit+(-0.0010)Lys;0.789,0.814,0.767,0.744,0.777,0.833,0.760,0.778,(4.0667)+(0.0082)Gln+(-0.1440)His+(-0.0637)Cit+(0.0392)Orn;0.789,0.816,0.808,0.826,0.811,0.798,0.762,0.799,(4.6464)+(0.0043)Gln+(-0.0182)Arg+(0.0052)Pro+(-0.1519)Trp;0.789,0.813,0.741,0.746,0.733,0.758,0.731,0.742,(-3.5623)+(0.0547)Ser+(-0.0061)Gly+(-0.3781)Met+(0.1036)Phe;0.789,0.810,0.822,0.838,0.817,0.813,0.797,0.816,(7.0831)+(-0.0563)Asn+(-0.0026)Ala+(0.0075)Lys+(-0.1341)Trp;0.789,0.817,0.787,0.801,0.805,0.795,0.710,0.778,(5.7638)+(0.0121)Thr+(-0.0222)Arg+(0.0191)Orn+(-0.1533)Trp;0.789,0.815,0.798,0.810,0.805,0.789,0.760,0.791,(5.8807)+(-0.0025)Gly+(0.0108)Thr+(-0.0022)Val+(-0.1519)Trp;0.788,0.812,0.811,0.820,0.808,0.814,0.789,0.808,(5.8769)+(-0.0011)Gly+(-0.0046)Ala+(0.0238)Orn+(-0.1392)Trp;0.788,0.812,0.800,0.798,0.784,0.849,0.800,0.808,(4.5409)+(0.0100)Gln+(-0.1349)His+(-0.0026)Ala+(-0.0358)Cit;0.788,0.815,0.794,0.800,0.800,0.773,0.779,0.788,(5.3648)+(-0.0009)Gly+(0.0040)Pro+(0.0060)Leu+(-0.1555)Trp;0.788,0.814,0.803,0.820,0.798,0.820,0.756,0.799,(5.9932)+(0.0125)Thr+(-0.0042)Ala+(-0.0049)Tyr+(-0.1447)Trp;0.788,0.812,0.755,0.734,0.755,0.82

4,0.762,0.769,(6.2361)+(-0.1309)His+(0.0116)Thr+(-0.0037)Ala+(0.0302)Orn;0.788,0.814,0.795,0.809,0.797,0.780,0.765,0.788,(5.9993)+(-0.0012)Gly+(0.0064)Pro+(-0.0146)Tyr+(-0.1426)Trp;0.788,0.814,0.790,0.800,0.804,0.789,0.737,0.783,(5.7125)+(-0.0172)Arg+(0.0044)Pro+(0.0213)Orn+(-0.1473)Trp;0.788,0.812,0.804,0.819,0.801,0.818,0.763,0.800,(5.8643)+(0.0118)Thr+(-0.0046)Ala+(0.0009)Val+(-0.1473)Trp;0.788,0.808,0.752,0.727,0.747,0.818,0.781,0.768,(6.2702)+(-0.1394)His+(0.0167)Thr+(-0.0046)Ala+(0.0174)Leu;0.788,0.813,0.806,0.816,0.814,0.811,0.760,0.800,(6.3186)+(-0.0005)Gly+(-0.1136)Met+(0.0268)Orn+(-0.1301)Trp;0.788,0.811,0.814,0.830,0.815,0.797,0.783,0.806,(6.8095)+(-0.0632)Asn+(0.0007)Gly+(0.0065)Lys+(-0.1381)Trp;0.788,0.808,0.823,0.840,0.819,0.826,0.787,0.818,(7.3064)+(-0.0449)Asn+(0.0008)Gly+(-0.0021)Ala+(-0.1268)Trp;0.788,0.810,0.754,0.729,0.753,0.785,0.801,0.767,(5.0569)+(-0.0305)Asn+(-0.1347)His+(0.0018)Pro+(0.0741)Phe;0.788,0.815,0.801,0.822,0.811,0.803,0.724,0.790,(4.8903)+(0.0037)Gln+(0.0123)Thr+(-0.0228)Arg+(-0.1564)Trp;0.788,0.807,0.722,0.686,0.729,0.803,0.745,0.741,(4.9862)+(0.0056)Gly+(-0.1291)His+(-0.0439)Cit+(0.0519)Ile;0.788,0.814,0.765,0.736,0.764,0.808,0.813,0.780,(6.3586)+(-0.1110)His+(-0.0047)Tyr+(-0.1364)Met+(0.0618)Ile;0.788,0.814,0.765,0.734,0.766,0.808,0.814,0.781,(6.1327)+(-0.1150)His+(-0.1548)Met+(0.0042)Lys+(0.0597)Ile;0.788,0.816,0.784,0.791,0.795,0.776,0.749,0.778,(4.8144)+(0.0052)Thr+(0.0117)Orn+(0.0049)Leu+(-0.1601)Trp;0.788,0.814,0.770,0.768,0.775,0.832,0.722,0.774,(7.2057)+(-0.1147)His+(0.0278)Thr+(-0.0008)Ala+(-0.1397)Met;0.788,0.816,0.806,0.825,0.811,0.805,0.745,0.796,(4.6145)+(0.0038)Gln+(-0.0205)Arg+(0.0200)Orn+(-0.1508)Trp;0.788,0.814,0.797,0.817,0.796,0.792,0.752,0.789,(4.5416)+(0.0027)Gln+(-0.0170)Tyr+(0.0169)Orn+(-0.1478)Trp;0.788,0.814,0.701,0.704,0.704,0.741,0.656,0.702,(-4.3670)+(0.0484)Ser+(0.0095)Pro+(-0.4286)Met+(0.1067)Phe;0.788,0.810,0.776,0.766,0.770,0.829,

0.779,0.786,(4.0821)+(0.0096)Gln+(-0.1447)His+(-0.0356)Cit+(0.0041)Pro;0.788,0.815,0.787,0.800,0.787,0.776,0.761,0.781,(5.5410)+(0.0053)Pro+(-0.0162)Tyr+(0.0074)Leu+(-0.1495)Trp;0.788,0.815,0.793,0.799,0.802,0.776,0.772,0.787,(5.2113)+(-0.0014)Gly+(0.0159)Orn+(0.0047)Leu+(-0.1547)Trp;0.788,0.810,0.747,0.719,0.746,0.784,0.795,0.761,(4.7479)+(-0.1410)His+(0.0017)Pro+(-0.0027)Lys+(0.0738)Phe;0.788,0.814,0.762,0.753,0.774,0.820,0.716,0.766,(6.9688)+(-0.1214)His+(0.0283)Thr+(0.0038)Val+(-0.1555)Met;0.788,0.809,0.744,0.720,0.732,0.791,0.795,0.760,(6.1054)+(-0.1247)His+(0.0005)Pro+(-0.0272)Tyr+(0.0516)Ile;0.787,0.814,0.817,0.827,0.806,0.815,0.814,0.815,(4.4098)+(0.0037)Gln+(-0.0055)Ala+(0.0134)Leu+(-0.1538)Trp;0.787,0.813,0.808,0.830,0.802,0.799,0.769,0.800,(4.6539)+(0.0036)Gln+(-0.0108)Tyr+(-0.0006)Val+(-0.1468)Trp;0.787,0.813,0.798,0.808,0.806,0.790,0.760,0.791,(5.9481)+(-0.0025)Gly+(0.0120)Thr+(-0.0033)Lys+(-0.1526)Trp;0.787,0.813,0.794,0.811,0.797,0.785,0.750,0.786,(6.1704)+(-0.0029)Gly+(0.0132)Thr+(-0.0170)Tyr+(-0.1492)Trp;0.787,0.817,0.775,0.772,0.774,0.774,0.786,0.777,(5.3167)+(-0.0127)Arg+(-0.0160)Tyr+(0.0550)Ile+(-0.1575)Trp;0.787,0.814,0.779,0.793,0.786,0.772,0.735,0.771,(5.3388)+(0.0102)Thr+(-0.0185)Tyr+(0.0093)Leu+(-0.1563)Trp;0.787,0.808,0.747,0.711,0.744,0.804,0.806,0.766,(5.8132)+(-0.1302)His+(-0.0016)Pro+(-0.0033)Lys+(0.0497)Ile;0.787,0.809,0.727,0.704,0.735,0.791,0.726,0.739,(3.8843)+(0.0063)Gly+(-0.1427)His+(-0.0420)Cit+(0.0864)Phe;0.787,0.806,0.766,0.781,0.693,0.831,0.835,0.785,(3.0194)+(-0.0097)Ala+(-0.0388)Tyr+(0.1720)Ile+(-0.0841)Leu;0.787,0.808,0.759,0.737,0.752,0.825,0.787,0.775,(6.2543)+(-0.1203)His+(-0.0057)Ala+(0.0079)Pro+(0.0319)Orn;0.787,0.813,0.807,0.819,0.804,0.814,0.778,0.804,(5.7421)+(-0.0046)Ala+(0.0237)Orn+(-0.0006)Lys+(-0.1387)Trp;0.787,0.809,0.821,0.836,0.824,0.817,0.776,0.813,(7.3384)+(-0.0305)Asn+(0.0009)Gly+(-0.0620)Met+(-0.1249)Trp;0.787,0.811,0.710,0.692,0.714,0.78

5,0.693,0.721,(-2.2798)+(0.0444)Ser+(0.0065)Thr+(-0.3814)Met+(0.0665)Ile;0.787,0.809,0.783,0.777,0.775,0.833,0.777,0.791,(4.2322)+(0.0008)Gly+(0.0097)Gln+(-0.1421)His+(-0.0355)Cit;0.787,0.809,0.817,0.833,0.817,0.809,0.781,0.810,(6.5445)+(-0.0013)Ala+(-0.1059)Met+(0.0088)Lys+(-0.1345)Trp;0.787,0.815,0.764,0.762,0.772,0.828,0.705,0.767,(7.0017)+(0.0013)Gly+(-0.1163)His+(0.0272)Thr+(-0.1457)Met;0.787,0.814,0.798,0.802,0.796,0.792,0.796,0.796,(6.1275)+(-0.0093)Arg+(-0.0230)Val+(0.0475)Leu+(-0.1464)Trp;0.787,0.812,0.825,0.844,0.811,0.828,0.802,0.821,(4.7591)+(0.0040)Gln+(-0.0042)Ala+(0.0001)Lys+(-0.1438)Trp;0.787,0.806,0.748,0.713,0.746,0.801,0.806,0.766,(5.9201)+(-0.0119)Asn+(-0.1275)His+(-0.0025)Lys+(0.0469)Ile;0.787,0.814,0.741,0.709,0.749,0.793,0.770,0.755,(4.6425)+(-0.1425)His+(-0.0109)Arg+(0.0251)Orn+(0.0658)Phe;0.787,0.814,0.769,0.764,0.777,0.827,0.722,0.772,(7.2917)+(-0.0120)Asn+(-0.1141)His+(0.0283)Thr+(-0.1372)Met;0.787,0.810,0.758,0.736,0.756,0.789,0.801,0.770,(5.1348)+(-0.0293)Asn+(-0.1344)His+(-0.0003)Lys+(0.0764)Phe;0.787,0.812,0.737,0.723,0.744,0.803,0.716,0.746,(6.3155)+(-0.1313)His+(0.0136)Thr+(-0.0262)Tyr+(0.0329)Orn;0.787,0.812,0.804,0.816,0.816,0.809,0.746,0.797,(6.4850)+(-0.0080)Arg+(-0.1040)Met+(0.0291)Orn+(-0.1285)Trp;0.787,0.810,0.747,0.725,0.736,0.792,0.797,0.762,(6.2787)+(-0.0089)Asn+(-0.1223)His+(-0.0260)Tyr+(0.0519)Ile;0.787,0.811,0.730,0.694,0.744,0.782,0.756,0.744,(4.4765)+(-0.1503)His+(0.0158)Thr+(-0.0370)Cit+(0.0748)Phe;0.787,0.815,0.791,0.807,0.791,0.780,0.756,0.784,(5.7057)+(0.0062)Pro+(-0.0149)Tyr+(0.0010)Lys+(-0.1443)Trp;0.787,0.810,0.758,0.739,0.757,0.829,0.761,0.772,(6.2047)+(0.0021)Gly+(-0.1240)His+(-0.0033)Ala+(0.0352)Orn;0.787,0.812,0.831,0.849,0.817,0.824,0.815,0.826,(4.9307)+(-0.0019)Gly+(0.0044)Gln+(-0.0041)Ala+(-0.1438)Trp;0.787,0.809,0.825,0.841,0.825,0.823,0.785,0.818,(7.5124)+(-0.0288)Asn+(-0.0011)Ala+(-0.0529)Met+(-0.1238)Trp;0.787,0.816,0.792,0.798,0.799,

0.778,0.774,0.787,(5.3484)+(0.0040)Pro+(-0.0022)Lys+(0.0074)Leu+(-0.1539)Trp;0.786,0.814,0.791,0.795,0.804,0.773,0.765,0.784,(5.3475)+(-0.0021)Gly+(0.0091)Thr+(0.0067)Leu+(-0.1621)Trp;0.786,0.808,0.764,0.741,0.764,0.827,0.779,0.778,(6.4788)+(-0.1222)His+(-0.0034)Ala+(-0.0001)Val+(0.0360)Orn;0.786,0.813,0.825,0.844,0.810,0.828,0.800,0.821,(4.7791)+(0.0041)Gln+(-0.0041)Ala+(-0.0016)Tyr+(-0.1432)Trp;0.786,0.810,0.749,0.723,0.747,0.787,0.795,0.763,(4.8020)+(-0.1409)His+(-0.0023)Lys+(-0.0001)Leu+(0.0755)Phe;0.786,0.808,0.727,0.694,0.729,0.799,0.759,0.745,(5.1812)+(0.0046)Gly+(-0.1348)His+(-0.0084)Arg+(0.0489)Ile;0.786,0.814,0.798,0.808,0.806,0.784

,0.767,0.791,(5.5604)+(-0.0015)Gly+(0.0200)Orn+(-0.0024)Lys+(-0.1467)Trp;0.786,0.813,0.808,0.830,0.802,0.799,0.769,0.800,(4.6475)+(0.0037)Gln+(-0.0107)Tyr+(-0.0009)Lys+(-0.1469)Trp;0.786,0.812,0.811,0.830,0.809,0.799,0.776,0.803,(4.5643)+(0.0034)Gln+(-0.0010)Val+(-0.0015)Lys+(-0.1494)Trp;0.786,0.811,0.816,0.833,0.814,0.795,0.793,0.809,(4.7456)+(-0.0022)Gly+(0.0037)Gln+(-0.0015)Val+(-0.1503)Trp;0.786,0.813,0.789,0.808,0.794,0.792,0.728,0.781,(5.8141)+(0.0116)Thr+(-0.0134)Tyr+(-0.0021)Lys+(-0.1472)Trp;0.786,0.810,0.759,0.729,0.758,0.823,0.796,0.777,(6.2426)+(-0.1299)His+(-0.0045)Ala+(0.0317)Orn+(0.0124)Leu;0.786,0.812,0.808,0.821,0.811,0.818,0.763,0.803,(6.2476)+(-0.0041)Ala+(-0.0136)Arg+(0.0288)Orn+(-0.1354)Trp;0.786,0.810,0.739,0.712,0.751,0.809,0.735,0.752,(6.0759)+(-0.1361)His+(0.0119)Thr+(0.0291)Orn+(-0.0034)Lys;0.786,0.810,0.795,0.794,0.787,0.842,0.779,0.800,(4.3548)+(0.0114)Gln+(-0.1423)His+(-0.0241)Cit+(-0.0142)Arg;0.786,0.809,0.759,0.737,0.759,0.787,0.796,0.770,(5.2460)+(-0.0250)Asn+(-0.1336)His+(-0.0050)Arg+(0.0771)Phe;0.786,0.816,0.798,0.808,0.803,0.781,0.773,0.791,(5.6353)+(-0.0010)Gly+(0.0050)Pro+(-0.0002)Lys+(-0.1492)Trp;0.786,0.811,0.803,0.821,0.809,0.822,0.727,0.795,(6.5461)+(0.0176)Thr+(-0.0039)Ala+(-0.0169)

Arg+(-0.1451)Trp;0.786,0.813,0.805,0.818,0.800,0.813,0.774,0.801,(5.7795)+(-0.0044)Ala+(-0.0047)Tyr+(0.0241)Orn+(-0.1376)Trp;0.786,0.812,0.802,0.806,0.799,0.805,0.794,0.801,(5.4295)+(-0.0055)Ala+(0.0195)Orn+(0.0107)Leu+(-0.1474)Trp;0.786,0.811,0.733,0.742,0.736,0.772,0.674,0.731,(-3.3325)+(0.0469)Ser+(-0.3537)Met+(-0.0094)Lys+(0.1126)Phe;0.786,0.816,0.800,0.817,0.795,0.788,0.773,0.793,(4.3976)+(0.0033)Gln+(-0.0149)Tyr+(0.0087)Leu+(-0.1549)Trp;0.786,0.813,0.830,0.852,0.820,0.833,0.792,0.824,(4.9582)+(0.0052)Gln+(-0.0035)Ala+(-0.0136)Arg+(-0.1409)Trp;0.786,0.807,0.758,0.742,0.754,0.790,0.789,0.769,(5.1072)+(-0.1329)His+(-0.0086)Arg+(-0.0064)Val+(0.0885)Phe;0.786,0.812,0.823,0.841,0.810,0.825,0.803,0.820,(4.6826)+(0.0040)Gln+(-0.0044)Ala+(0.0014)Val+(-0.1458)Trp;0.786,0.806,0.824,0.838,0.821,0.820,0.794,0.818,(7.3015)+(-0.0429)Asn+(-0.0024)Ala+(0.0014)Val+(-0.1292)Trp;0.786,0.813,0.767,0.763,0.775,0.828,0.719,0.771,(7.1136)+(-0.1164)His+(0.0279)Thr+(0.0033)Tyr+(-0.1506)Met;0.786,0.811,0.766,0.735,0.772,0.812,0.806,0.781,(6.5325)+(-0.1044)His+(-0.0303)Cit+(-0.1371)Met+(0.0616)Ile;0.786,0.805,0.756,0.743,0.745,0.822,0.768,0.769,(6.5326)+(-0.1234)His+(0.0139)Thr+(-0.0054)Ala+(0.0081)Pro;0.786,0.815,0.808,0.818,0.809,0.782,0.796,0.801,(4.4029)+(-0.0019)Gly+(0.0033)Gln+(0.0065)Leu+(-0.1600)Trp;0.786,0.816,0.785,0.791,0.796,0.784,0.748,0.780,(5.3038)+(0.0104)Thr+(-0.0059)Lys+(0.0102)Leu+(-0.1588)Trp;0.785,0.813,0.735,0.752,0.744,0.769,0.650,0.729,(-3.4383)+(0.0483)Ser+(-0.0175)Arg+(-0.3618)Met+(0.1116)Phe;0.785,0.811,0.736,0.693,0.744,0.803,0.783,0.756,(5.5161)+(-0.1357)His+(-0.0090)Arg+(0.0236)Orn+(0.0394)Ile;0.785,0.809,0.817,0.825,0.812,0.814,0.811,0.815,(6.8555)+(-0.0433)Asn+(-0.0036)Ala+(0.0143)Leu+(-0.1380)Trp;0.785,0.807,0.718,0.729,0.640,0.770,0.814,0.738,(1.1438)+(-0.0650)Tyr+(-0.0528)Val+(0.1474)Ile+(0.0572)Phe;0.785,0.810,0.787,0.786,0.776,0.835,0.779,0.794,(4.4227)+(0.0100)Gln+(-0.1380)His+(-0.03

41)Cit+(-0.0085)Tyr;0.785,0.808,0.812,0.828,0.816,0.800,0.769,0.803,(6.4294)+(0.0002)Gly+(-0.1166)Met+(0.0086)Lys+(-0.1361)Trp;0.785,0.812,0.817,0.833,0.815,0.797,0.794,0.810,(4.7211)+(-0.0022)Gly+(0.0038)Gln+(-0.0019)Lys+(-0.1508)Trp;0.785,0.811,0.796,0.811,0.798,0.786,0.761,0.789,(5.7856)+(-0.0018)Gly+(-0.0154)Tyr+(0.0221)Orn+(-0.1422)Trp;0.785,0.808,0.739,0.714,0.749,0.807,0.737,0.752,(5.9665)+(-0.1355)His+(0.0105)Thr+(-0.0020)Val+(0.0292)Orn;0.785,0.814,0.790,0.795,0.801,0.782,0.761,0.785,(5.1982)+(0.0173)Orn+(-0.0042)Lys+(0.0071)Leu+(-0.1516)Trp;0.785,0.816,0.805,0.816,0.808,0.791,0.784,0.800,(4.3166)+(0.0034)Gln+(-0.0045)Lys+(0.0094)Leu+(-0.1573)Trp;0.785,0.812,0.828,0.837,0.836,0.820,0.794,0.822,(7.1976)+(-0.0270)Asn+(0.0209)Tyr+(-0.0973)Met+(-0.1308)Trp;0.785,0.810,0.815,0.831,0.816,0.796,0.787,0.807,(6.9143)+(-0.0613)Asn+(-0.0013)Tyr+(0.0066)Lys+(-0.1378)Trp;0.785,0.805,0.734,0.706,0.741,0.797,0.750,0.749,(6.2036)+(-0.1433)His+(0.0171)Thr+(-0.0052)Lys+(0.0154)Leu;0.785,0.808,0.828,0.840,0.827,0.827,0.801,0.824,(7.2767)+(-0.0461)Asn+(-0.0026)Ala+(0.0087)Tyr+(-0.1301)Trp;0.785,0.813,0.799,0.813,0.805,0.796,0.750,0.791,(6.2242)+(-0.0119)Arg+(0.0069)Pro+(-0.0024)Val+(-0.1406)Trp;0.785,0.812,0.791,0.806,0.796,0.790,0.744,0.784,(5.5460)+(-0.0136)Tyr+(0.0216)Orn+(-0.0013)Lys+(-0.1417)Trp;0.784,0.811,0.747,0.724,0.759,0.806,0.742,0.758,(6.5375)+(-0.0447)Asn+(-0.1291)His+(0.0148)Thr+(0.0284)Orn;0.784,0.809,0.818,0.832,0.820,0.810,0.780,0.811,(7.1447)+(-0.0507)Asn+(0.0006)Gly+(-0.0003)Val+(-0.1305)Trp;0.784,0.810,0.745,0.721,0.734,0.792,0.795,0.761,(6.1313)+(-0.1245)His+(-0.0265)Tyr+(-0.0003)Lys+(0.0523)Ile;0.784,0.811,0.798,0.803,0.809,0.796,0.764,0.793,(5.9667)+(-0.1317)Met+(0.0222)Orn+(0.0116)Leu+(-0.1370)Trp;0.784,0.815,0.768,0.760,0.785,0.834,0.704,0.771,(7.4660)+(-0.1087)His+(0.0292)Thr+(-0.0322)Cit+(-0.1456)Met;0.784,0.813,0.816,0.836,0.809,0.797,0.790,0.808,(4.8716)+(-0.0025)Gly+(0.0041)Gln+(

-0.0129)Tyr+(-0.1470)Trp;0.784,0.809,0.773,0.777,0.736,0.828,0.804,0.786,(1.5099)+(0.0042)Gln+(-0.2730)Met+(0.1682)Ile+(-0.0818)Leu;0.784,0.810,0.774,0.755,0.765,0.819,0.810,0.787,(5.2776)+(-0.1258)His+(-0.0049)Ala+(-0.0363)Cit+(0.0874)Phe;0.784,0.807,0.763,0.740,0.762,0.826,0.779,0.777,(6.4015)+(-0.1236)His+(-0.0035)Ala+(0.0352)Orn+(0.0014)Lys;0.784,0.809,0.812,0.828,0.816,0.800,0.771,0.804,(6.4525)+(0.0003)Val+(-0.1164)Met+(0.0085)Lys+(-0.1364)Trp;0.784,0.814,0.763,0.757,0.772,0.820,0.717,0.766,(6.8115)+(-0.1193)His+(0.0267)Thr+(-0.1660)Met+(0.0065)Lys;0.784,0.811,0.724,0.736,0.728,0.756,0.665,0.721,(-3.8272)+(0.0464)Ser+(-0.0003)Gln+(-0.3848)Met+(0.1076)Phe;0.784,0.809,0.808,0.816,0.813,0.794,0.784,0.802,(6.6166)+(-0.0542)Asn+(0.0009)Gly+(0.0101)Leu+(-0.1410)Trp;0.784,0.803,0.728,0.710,0.730,0.784,0.732,0.739,(6.3555)+(-0.1402)His+(0.0189)Thr+(-0.0272)Tyr+(0.0168)Leu;0.784,0.812,0.786,0.797,0.791,0.778,0.750,0.779,(5.2925)+(-0.0163)Tyr+(0.0183)Orn+(0.0065)Leu+(-0.1486)Trp;0.784,0.808,0.770,0.750,0.769,0.830,0.782,0.783,(6.8322)+(-0.0212)Asn+(-0.1165)His+(-0.0032)Ala+(0.0372)Orn;0.784,0.810,0.798,0.811,0.807,0.789,0.755,0.790,(6.1403)+(-0.0004)Gly+(-0.0120)Arg+(0.0062)Pro+(-0.1447)Trp;0.784,0.808,0.822,0.837,0.825,0.815,0.780,0.814,(7.4348)+(-0.0293)Asn+(0.0004)Arg+(-0.0617)Met+(-0.1251)Trp;0.784,0.812,0.820,0.829,0.829,0.805,0.788,0.813,(6.2609)+(0.0209)Tyr+(-0.1488)Met+(0.0083)Lys+(-0.1413)Trp;0.784,0.808,0.733,0.684,0.751,0.811,0.767,0.753,(5.3721)+(-0.1292)His+(-0.0591)Cit+(0.0377)Orn+(0.0380)Ile;0.784,0.807,0.727,0.692,0.737,0.800,0.743,0.743,(5.5724)+(-0.1468)His+(0.0114)Thr+(0.0232)Orn+(0.0094)Leu;0.784,0.806,0.746,0.720,0.742,0.798,0.785,0.761,(6.3732)+(-0.1165)His+(-0.0330)Cit+(-0.0260)Tyr+(0.0539)Ile;0.784,0.804,0.744,0.710,0.743,0.800,0.799,0.763,(5.8316)+(-0.1312)His+(-0.0051)Arg+(-0.0013)Pro+(0.0474)Ile;0.784,0.808,0.731,0.706,0.742,0.805,0.723,0.744,(5.7138)+(0.0014)Gly+(-0.1391)His+

(0.0098)Thr+(0.0275)Orn;0.784,0.806,0.729,0.697,0.741,0.801,0.738,0.744,(5.4798)+(0.0028)Gly+(-0.1398)His+(0.0277)Orn+(0.0097)Leu;0.784,0.806,0.825,0.841,0.822,0.822,0.791,0.819,(7.4369)+(-0.0420)Asn+(-0.0021)Ala+(-0.0015)Arg+(-0.1267)Trp;0.783,0.808,0.708,0.689,0.708,0.782,0.702,0.720,(-2.2975)+(0.0465)Ser+(0.0035)Pro+(-0.3693)Met+(0.0627)Ile;0.783,0.808,0.811,0.821,0.815,0.790,0.791,0.804,(6.6411)+(-0.0598)Asn+(0.0042)Lys+(0.0077)Leu+(-0.1434)Trp;0.783,0.803,0.734,0.728,0.676,0.799,0.824,0.757,(1.7883)+(-0.0333)Arg+(-0.0598)Val+(0.1605)Ile+(0.0381)Phe;0.783,0.799,0.744,0.722,0.739,0.807,0.770,0.759,(6.1949)+(0.0030)Gly+(-0.1269)His+(-0.0190)Val+(0.0431)Leu;0.783,0.808,0.711,0.691,0.713,0.786,0.702,0.723,(-2.1711)+(0.0468)Ser+(-0.0004)Gln+(-0.3578)Met+(0.0669)Ile;0.783,0.809,0.821,0.831,0.830,0.818,0.779,0.815,(6.5551)+(0.0009)Gly+(0.0229)Tyr+(-0.1261)Met+(-0.1335)Trp;0.783,0.804,0.754,0.733,0.753,0.788,0.786,0.765,(5.0235)+(-0.1315)His+(-0.0296)Cit+(-0.0054)Val+(0.0876)Phe;0.783,0.800,0.724,0.697,0.731,0.793,0.734,0.739,(5.6342)+(0.0022)Gly+(-0.1468)His+(0.0135)Thr+(0.0139)Leu;0.783,0.812,0.799,0.815,0.807,0.803,0.736,0.790,(6.0441)+(-0.0158)Arg+(-0.0037)Val+(0.0279)Orn+(-0.1378)Trp;0.783,0.807,0.753,0.730,0.754,0.786,0.787,0.764,(4.9775)+(-0.1388)His+(-0.0078)Arg+(-0.0018)Leu+(0.0778)Phe;0.783,0.807,0.760,0.735,0.766,0.789,0.796,0.771,(5.3777)+(-0.0291)Asn+(-0.1279)His+(-0.0314)Cit+(0.0799)Phe;0.783,0.810,0.818,0.832,0.822,0.808,0.781,0.811,(7.0523)+(-0.0523)Asn+(0.0007)Gly+(0.0031)Tyr+(-0.1324)Trp;0.783,0.807,0.744,0.722,0.735,0.792,0.791,0.760,(6.2654)+(-0.1233)His+(-0.0036)Arg+(-0.0260)Tyr+(0.0522)Ile;0.783,0.811,0.829,0.838,0.833,0.827,0.799,0.824,(6.8071)+(-0.0018)Ala+(0.0246)Tyr+(-0.1122)Met+(-0.1319)Trp;0.783,0.809,0.764,0.747,0.762,0.825,0.769,0.776,(6.6798)+(-0.1187)His+(-0.0027)Ala+(-0.0135)Tyr+(0.0389)Orn;0.783,0.809,0.713,0.695,0.714,0.785,0.708,0.725,(-2.2383)+(0.0467)Ser+(-0.3587)Me

t+(-0.0034)Orn+(0.0680)Ile;0.783,0.808,0.820,0.835,0.824,0.810,0.779,0.812,(7.3228)+(-0.0277)Asn+(0.0016)Val+(-0.0669)Met+(-0.1277)Trp;0.783,0.807,0.820,0.837,0.822,0.818,0.775,0.813,(6.9596)+(0.0004)Gly+(-0.0012)Ala+(-0.0780)Met+(-0.1261)Trp;0.783,0.806,0.733,0.704,0.743,0.803,0.736,0.747,(5.7509)+(-0.1389)His+(0.0100)Thr+(0.0021)Pro+(0.0262)Orn;0.783,0.808,0.820,0.834,0.824,0.808,0.787,0.813,(7.1891)+(-0.0508)Asn+(0.0033)Tyr+(-0.0006)Val+(-0.1316)Trp;0.782,0.805,0.745,0.710,0.743,0.800,0.799,0.763,(5.8651)+(-0.1292)His+(-0.0042)Arg+(-0.0023)Lys+(0.0472)Ile;0.782,0.808,0.791,0.791,0.728,0.859,0.873,0.813,(3.8691)+(-0.0696)Asn+(-0.0099)Ala+(0.1640)Ile+(-0.0822)Leu;0.782,0.803,0.736,0.735,0.680,0.806,0.806,0.757,(3.5826)+(-0.0615)Cit+(-0.0426)Tyr+(-0.0479)Val+(0.1537)Ile;0.782,0.812,0.730,0.745,0.731,0.758,0.667,0.725,(-3.7573)+(0.0454)Ser+(-0.3785)Met+(-0.0040)Leu+(0.1109)Phe;0.782,0.806,0.747,0.713,0.745,0.800,0.802,0.765,(5.9517)+(-0.0115)Asn+(-0.1281)His+(-0.0042)Arg+(0.0454)Ile;0.782,0.809,0.793,0.803,0.803,0.778,0.757,0.785,(5.8360)+(-0.0127)Arg+(0.0052)Pro+(0.0067)Leu+(-0.1512)Trp;0.782,0.803,0.770,0.762,0.765,0.825,0.762,0.778,(7.3840)+(-0.0395)Asn+(-0.1183)His+(0.0199)Thr+(-0.0028)Ala;0.782,0.801,0.758,0.749,0.751,0.822,0.748,0.767,(6.6369)+(0
.0011)Gly+(-0.1266)His+(0.0155)Thr+(-0.0029)Ala;0.782,0.801,0.759,0.745,0.755,0.819,0.762,0.770,(6.6585)+(-0.1300)His+(0.0160)Thr+(-0.0035)Ala+(0.0029)Val;0.782,0.808,0.758,0.734,0.769,0.816,0.757,0.769,(6.4308)+(-0.1136)His+(0.0064)Pro+(-0.1017)Met+(0.0338)Orn;0.782,0.807,0.809,0.818,0.813,0.790,0.789,0.803,(6.7677)+(-0.0512)Asn+(-0.0024)Tyr+(0.0102)Leu+(-0.1404)Trp;0.782,0.802,0.737,0.728,0.738,0.792,0.718,0.744,(6.5721)+(-0.1256)His+(0.0162)Thr+(0.0058)Pro+(-0.0251)Tyr;0.782,0.811,0.795,0.807,0.804,0.780,0.752,0.786,(5.8865)+(-0.0150)Arg+(0.0059)Pro+(0.0037)Lys+(-0.1491)Trp;0.782,0.813,0.766,0.764,0.780,0.829,0

.697,0.768,(7.5334)+(-0.1144)His+(0.0307)Thr+(-0.0112)Arg+(-0.1380)Met;0.782,0.805,0.767,0.737,0.783,0.842,0.759,0.780,(6.9359)+(-0.1067)His+(-0.0049)Ala+(-0.0746)Cit+(0.0574)Orn;0.781,0.808,0.773,0.754,0.776,0.833,0.775,0.784,(6.7854)+(-0.1134)His+(-0.0023)Ala+(-0.0628)Met+(0.0388)Orn;0.781,0.812,0.815,0.836,0.818,0.805,0.764,0.806,(4.6439)+(0.0045)Gln+(-0.0179)Arg+(0.0024)Lys+(-0.1509)Trp;0.781,0.811,0.792,0.809,0.807,0.800,0.707,0.781,(6.2409)+(0.0156)Thr+(-0.0189)Arg+(-0.0016)Val+(-0.1493)Trp;0.781,0.808,0.811,0.818,0.817,0.796,0.788,0.805,(6.8444)+(-0.0238)Asn+(-0.0945)Met+(0.0153)Leu+(-0.1355)Trp;0.781,0.807,0.807,0.813,0.800,0.805,0.805,0.806,(5.8379)+(-0.0001)Gly+(-0.0048)Ala+(0.0146)Leu+(-0.1472)Trp;0.781,0.801,0.760,0.750,0.754,0.822,0.755,0.771,(6.7359)+(-0.1267)His+(0.0159)Thr+(-0.0030)Ala+(0.0007)Lys;0.781,0.808,0.812,0.813,0.825,0.798,0.793,0.807,(6.2129)+(0.0191)Tyr+(-0.1472)Met+(0.0152)Leu+(-0.1419)Trp;0.781,0.808,0.751,0.727,0.753,0.786,0.787,0.763,(4.9773)+(-0.1393)His+(-0.0073)Arg+(-0.0005)Lys+(0.0759)Phe;0.781,0.809,0.758,0.740,0.768,0.826,0.734,0.767,(6.3571)+(0.0026)Gly+(-0.1177)His+(-0.0793)Met+(0.0365)Orn;0.781,0.807,0.817,0.833,0.821,0.810,0.775,0.810,(7.1928)+(-0.0478)Asn+(0.0007)Gly+(-0.0029)Arg+(-0.1303)Trp;0.781,0.813,0.811,0.826,0.815,0.798,0.770,0.802,(4.4695)+(0.0044)Gln+(-0.0170)Arg+(0.0080)Leu+(-0.1564)Trp;0.781,0.806,0.813,0.830,0.820,0.799,0.766,0.804,(6.6410)+(-0.0073)Arg+(-0.1103)Met+(0.0104)Lys+(-0.1360)Trp;0.781,0.813,0.818,0.839,0.818,0.810,0.766,0.808,(4.7616)+(0.0047)Gln+(-0.0161)Arg+(-0.0007)Val+(-0.1470)Trp;0.781,0.802,0.749,0.731,0.755,0.802,0.747,0.759,(6.8765)+(-0.0429)Asn+(-0.1245)His+(0.0175)Thr+(0.0038)Pro;0.781,0.813,0.816,0.839,0.814,0.808,0.762,0.806,(4.7932)+(0.0048)Gln+(-0.0154)Arg+(-0.0059)Tyr+(-0.1456)Trp;0.781,0.810,0.736,0.694,0.755,0.802,0.759,0.752,(4.5017)+(-0.1370)His+(-0.0609)Cit+(0.0397)Orn+(0.0635)Phe;0.781,0.807,0.746,0.720,0.748,0.

778,0.787,0.758,(4.8931)+(-0.1399)His+(-0.0082)Arg+(0.0019)Pro+(0.0735)Phe;0.781,0.809,0.796,0.810,0.811,0.793,0.728,0.786,(6.4579)+(-0.0023)Gly+(0.0166)Thr+(-0.0188)Arg+(-0.1534)Trp;0.781,0.811,0.788,0.809,0.801,0.795,0.699,0.776,(6.3148)+(0.0164)Thr+(-0.0181)Arg+(-0.0104)Tyr+(-0.1478)Trp;0.781,0.809,0.812,0.819,0.813,0.804,0.799,0.809,(6.4873)+(-0.0025)Ala+(-0.0995)Met+(0.0181)Leu+(-0.1364)Trp;0.781,0.806,0.741,0.722,0.745,0.801,0.739,0.752,(6.3148)+(-0.1223)His+(0.0052)Pro+(-0.0253)Tyr+(0.0353)Orn;0.781,0.811,0.712,0.690,0.710,0.796,0.710,0.727,(-1.5426)+(0.0469)Ser+(-0.3162)Met+(-0.0120)Lys+(0.0732)Ile;0.781,0.803,0.742,0.716,0.750,0.796,0.755,0.754,(6.5913)+(-0.0417)Asn+(-0.1366)His+(0.0190)Thr+(0.0130)Leu;0.781,0.808,0.711,0.693,0.712,0.786,0.702,0.723,(-2.2084)+(0.0460)Ser+(-0.0027)Tyr+(-0.3547)Met+(0.0668)Ile;0.781,0.812,0.793,0.810,0.798,0.786,0.745,0.785,(6.2483)+(-0.0110)Arg+(0.0070)Pro+(-0.0099)Tyr+(-0.1405)Trp;0.781,0.799,0.768,0.745,0.754,0.822,0.815,0.784,(6.8914)+(-0.1183)His+(-0.0031)Ala+(-0.0187)Val+(0.0448)Leu;0.781,0.806,0.819,0.834,0.822,0.809,0.779,0.811,(7.2913)+(-0.0465)Asn+(-0.0027)Arg+(-0.0001)Val+(-0.1303)Trp;0.781,0.801,0.743,0.706,0.748,0.799,0.792,0.761,(5.8894)+(-0.1251)His+(-0.0339)Cit+(-0.0016)Pro+(0.0495)Ile;0.781,0.804,0.742,0.719,0.752,0.810,0.737,0.755,(5.9297)+(0.0020)Gly+(-0.1293)His+(-0.0014)Val+(0.0334)Orn;0.781,0.801,0.749,0.722,0.752,0.784,0.787,0.761,(4.9481)+(-0.1360)His+(-0.0316)Cit+(-0.0008)Leu+(0.0780)Phe;0.780,0.799,0.755,0.737,0.748,0.817,0.773,0.769,(6.2901)+(0.0036)Gly+(-0.1289)His+(-0.0039)Ala+(0.0184)Leu;0.780,0.803,0.733,0.705,0.744,0.803,0.735,0.747,(5.6125)+(0.0024)Gly+(-0.1330)His+(0.0033)Pro+(0.0295)Orn;0.780,0.806,0.766,0.745,0.770,0.825,0.767,0.777,(6.8087)+(-0.1187)His+(-0.0033)Ala+(-0.0089)Arg+(0.0388)Orn;0.780,0.807,0.815,0.831,0.819,0.799,0.777,0.807,(7.0295)+(-0.0564)Asn+(-0.0077)Arg+(0.0082)Lys+(-0.1384)Trp;0.780,0.805,0.729,0.717,0.

692,0.828,0.766,0.751,(0.7987)+(0.0375)Ser+(-0.1510)Asn+(0.1415)Ile+(-0.0767)Leu;0.780,0.796,0.746,0.720,0.740,0.801,0.791,0.763,(6.4441)+(-0.1231)His+(0.0046)Pro+(-0.0212)Val+(0.0425)Leu;0.780,0.802,0.745,0.707,0.748,0.801,0.794,0.763,(6.0632)+(-0.1207)His+(-0.0347)Cit+(-0.0040)Lys+(0.0503)Ile;0.780,0.802,0.751,0.741,0.754,0.811,0.729,0.759,(6.9136)+(-0.0447)Asn+(0.0021)Gly+(-0.1236)His+(0.0180)Thr;0.780,0.809,0.783,0.793,0.803,0.785,0.715,0.774,(5.7579)+(0.0145)Thr+(-0.0197)Arg+(0.0082)Leu+(-0.1599)Trp;0.780,0.806,0.749,0.726,0.759,0.817,0.738,0.760,(6.2773)+(-0.0299)Asn+(0.0029)Gly+(-0.1233)His+(0.0338)Orn;0.780,0.796,0.765,0.745,0.756,0.809,0.805,0.779,(7.3285)+(-0.0325)Asn+(-0.1117)His+(-0.0229)Val+(0.0478)Leu;0.780,0.796,0.755,0.730,0.748,0.808,0.797,0.771,(6.6233)+(-0.1238)His+(-0.0200)Val+(0.0009)Lys+(0.0430)Leu;0.780,0.806,0.745,0.727,0.752,0.811,0.729,0.755,(6.2796)+(0.0016)Gly+(-0.1247)His+(-0.0174)Tyr+(0.0369)Orn;0.780,0.802,0.760,0.738,0.768,0.816,0.762,0.771,(6.7285)+(-0.0277)Asn+(-0.1170)His+(-0.0030)Val+(0.0373)Orn;0.780,0.799,0.741,0.730,0.743,0.798,0.725,0.749,(6.7049)+(-0.1301)His+(0.0176)Thr+(-0.0207)Tyr+(0.0026)Val;0.780,0.806,0.821,0.838,0.822,0.819,0.776,0.814,(7.0551)+(-0.0012)Ala+(-0.0012)Arg+(-0.0753)Met+(-0.1259)Trp;0.780,0.809,0.714,0.702,0.718,0.787,0.687,0.723,(-1.7812)+(0.0476)Ser+(-0.0141)Arg+(-0.3357)Met+(0.0672)Ile;0.780,0.802,0.752,0.726,0.756,0.785,0.788,0.764,(5.1045)+(-0.1336)His+(-0.0322)Cit+(-0.0029)Lys+(0.0800)Phe;0.780,0.798,0.730,0.701,0.736,0.792,0.750,0.744,(5.8756)+(-0.1449)His+(0.0144)Thr+(0.0013)Pro+(0.0121)Leu;0.780,0.808,0.790,0.807,0.807,0.792,0.708,0.778,(6.0745)+(0.0148)Thr+(-0.0195)Arg+(0.0009)Lys+(-0.1528)Trp;0.780,0.805,0.742,0.717,0.749,0.802,0.751,0.755,(6.3237)+(-0.1302)His+(-0.0237)Tyr+(0.0346)Orn+(0.0108)Leu;0.780,0.801,0.759,0.754,0.751,0.821,0.742,0.767,(6.9536)+(-0.1230)His+(0.0178)Thr+(-0.0023)Ala+(-0.0129)Tyr;0.780,0.812,0.723,0.735,0

.726,0.756,0.663,0.720,(-3.9214)+(0.0458)Ser+(-0.3870)Met+(0.0025)Orn+(0.1064)Phe;0.780,0.809,0.821,0.830,0.831,0.812,0.785,0.814,(6.6238)+(0.0211)Tyr+(0.0014)Val+(-0.1252)Met+(-0.1351)Trp;0.780,0.801,0.746,0.710,0.750,0.799,0.794,0.763,(6.0813)+(-0.0137)Asn+(-0.1210)His+(-0.0336)Cit+(0.0473)Ile;0.780,0.807,0.801,0.819,0.801,0.786,0.762,0.792,(5.8792)+(-0.0067)Tyr+(-0.0007)Val+(0.0020)Lys+(-0.1428)Trp;0.780,0.807,0.807,0.813,0.800,0.806,0.804,0.806,(5.8341)+(-0.0048)Ala+(-0.0002)Lys+(0.0148)Leu+(-0.1470)Trp;0.780,0.806,0.794,0.805,0.807,0.795,0.734,0.785,(5.7716)+(-0.0168)Arg+(0.0235)Orn+(0.0016)Lys+(-0.1462)Trp;0.780,0.804,0.815,0.829,0.810,0.812,0.790,0.810,(6.1817)+(-0.0006)Gly+(-0.0035)Ala+(0.0031)Lys+(-0.1395)Trp;0.780,0.804,0.758,0.753,0.757,0.810,0.732,0.763,(7.4305)+(-0.0404)Asn+(-0.1180)His+(0.0213)Thr+(-0.0172)Tyr;0.780,0.801,0.737,0.703,0.749,0.801,0.758,0.753,(5.7922)+(-0.1361)His+(0.0019)Pro+(0.0284)Orn+(0.0070)Leu;0.780,0.806,0.797,0.807,0.811,0.796,0.744,0.789,(5.9930)+(-0.0010)Gly+(-0.0155)Arg+(0.0247)Orn+(-0.1443)Trp;0.780,0.803,0.748,0.716,0.761,0.806,0.765,0.762,(6.2919)+(-0.0229)Asn+(-0.1293)His+(0.0311)Orn+(0.0078)Leu;0.780,0.796,0.762,0.738,0.748,0.818,0.810,0.779,(6.5984)+(-0.1211)His+(-0.0059)Ala+(0.0080)Pro+(0.0136)Leu;0.779,0.804,0.740,0.714,0.751,0.809,0.735,0.752,(5.8450)+(0.0022)Gly+(-0.1316)His+(0.0322)Orn+(-0.0000)Lys;0.779,0.802,0.744,0.717,0.752,0.804,0.753,0.757,(6.0372)+(-0.1261)His+(0.0039)Pro+(-0.0034)Val+(0.0329)Orn;0.779,0.795,0.727,0.720,0.675,0.807,0.796,0.750,(2.7703)+(0.0072)Thr+(-0.0345)Arg+(-0.0584)Val+(0.1646)Ile;0.779,0.807,0.807,0.813,0.801,0.806,0.805,0.806,(5.8181)+(-0.0048)Ala+(0.0000)Tyr+(0.0147)Leu+(-0.1472)Trp;0.779,0.803,0.763,0.734,0.789,0.829,0.739,0.773,(6.9633)+(-0.1055)His+(-0.0657)Cit+(-0.0766)Met+(0.0544)Orn;0.779,0.807,0.819,0.834,0.819,0.816,0.779,0.812,(6.8572)+(-0.0017)Ala+(0.0030)Val+(-0.0815)Met+(-0.1300)Trp;0.779,0.807,0.757,0.741,

0.762,0.813,0.750,0.767,(6.8525)+(-0.0209)Asn+(-0.1170)His+(-0.0180)Tyr+(0.0390)Orn;0.779,0.802,0.757,0.745,0.761,0.811,0.744,0.765,(7.1471)+(-0.0421)Asn+(-0.1229)His+(0.0190)Thr+(-0.0004)Val;0.779,0.806,0.737,0.712,0.758,0.808,0.713,0.747,(6.4039)+(-0.1353)His+(0.0151)Thr+(-0.0163)Arg+(0.0301)Orn;0.779,0.802,0.741,0.707,0.753,0.805,0.761,0.757,(6.0118)+(-0.1344)His+(0.0306)Orn+(-0.0024)Lys+(0.0091)Leu;0.779,0.799,0.744,0.736,0.744,0.803,0.721,0.751,(6.7312)+(0.0005)Gly+(-0.1269)His+(0.0171)Thr+(-0.0171)Tyr;0.779,0.800,0.755,0.741,0.761,0.807,0.745,0.763,(7.0334)+(-0.0433)Asn+(-0.1247)His+(0.0184)Thr+(0.0015)Lys;0.779,0.808,0.791,0.808,0.800,0.792,0.728,0.782,(6.0017)+(-0.0147)Arg+(-0.0097)Tyr+(0.0262)Orn+(-0.1397)Trp;0.779,0.803,0.816,0.830,0.811,0.815,0.789,0.811,(6.3028)+(-0.0004)Gly+(-0.0036)Ala+(0.0018)Val+(-0.1383)Trp;0.779,0.795,0.732,0.713,0.738,0.795,0.724,0.742,(6.0188)+(0.0017)Gly+(-0.1343)His+(0.0123)Thr+(0.0038)Pro;0.779,0.808,0.804,0.811,0.812,0.785,0.780,0.797,(6.1612)+(-0.1315)Met+(0.0056)Lys+(0.0136)Leu+(-0.1418)Trp;0.779,0.807,0.813,0.829,0.819,0.806,0.766,0.805,(6.7398)+(0.0004)Gly+(0.0022)Val+(-0.0936)Met+(-0.1308)Trp;0.779,0.806,0.816,0.834,0.820,0.811,0.765,0.807,(6.9342)+(0.0004)Gly+(-0.0015)Arg+(-0.0850)Met+(-0.1272)Trp;0.779,0.803,0.764,0.768,0.686,0.829,0.868,0.788,(0.2292)+(-0.0129)Ala+(0.1681)Ile+(-0.0942)Leu+(0.0473)Phe;0.779,0.806,0.805,0.819,0.809,0.789,0.772,0.797,(5.9225)+(-0.0009)Gly+(-0.0011)Val+(0.0016)Lys+(-0.1447)Trp;0.779,0.797,0.739,0.720,0.744,0.798,0.740,0.750,(6.3068)+(-0.1329)His+(0.0139)Thr+(0.0036)Pro+(-0.0011)Lys;0.778,0.799,0.743,0.752,0.705,0.806,0.752,0.754,(3.4794)+(-0.0759)Cit+(-0.0496)Tyr+(0.1636)Ile+(-0.0846)Leu;0.778,0.809,0.757,0.754,0.731,0.818,0.776,0.770,(2.7162)+(0.0121)Thr+(-0.2843)Met+(0.1648)Ile+(-0.0791)Leu;0.778,0.810,0.822,0.841,0.822,0.806,0.783,0.813,(4.8970)+(-0.0019)Gly+(0.0050)Gln+(-0.0160)

Arg+(-0.1484)Trp;0.778,0.809,0.824,0.833,0.833,0.817,0.785,0.817,(6.7911)+(-0.0025)Arg+(0.0226)Tyr+(-0.1196)Met+(-0.1328)Trp;0.778,0.807,0.802,0.809,0.811,0.792,0.774,0.796,(6.2574)+(0.0008)Gly+(-0.1194)Met+(0.0163)Leu+(-0.1379)Trp;0.778,0.806,0.759,0.730,0.772,0.818,0.770,0.772,(6.4353)+(-0.1227)His+(-0.0998)Met+(0.0328)Orn+(0.0135)Leu;0.778,0.805,0.814,0.828,0.808,0.815,0.787,0.810,(6.0719)+(-0.0036)Ala+(0.0015)Tyr+(0.0029)Lys+(-0.1399)Trp;0.778,0.806,0.820,0.834,0.824,0.808,0.784,0.812,(7.2224)+(-0.0477)Asn+(-0.0032)Arg+(0.0038)Tyr+(-0.1322)Trp;0.778,0.805,0.752,0.732,0.757,0.810,0.750,0.762,(6.5294)+(-0.1220)His+(-0.0186)Tyr+(-0.0006)Val+(0.0383)Orn;0.778,0.802,0.745,0.715,0.750,0.781,0.783,0.758,(4.8714)+(-0.1368)His+(-0.0319)Cit+(0.0017)Pro+(0.0751)Phe;0.778,0.809,0.775,0.766,0.757,0.837,0.791,0.788,(4.0991)+(-0.0655)Cit+(-0.2064)Met+(0.1700)Ile+(-0.0805)Leu;0.778,0.802,0.750,0.722,0.760,0.807,0.761,0.762,(6.3574)+(-0.0261)Asn+(-0.1232)His+(0.0033)Pro+(0.0320)Orn;0.778,0.805,0.813,0.827,0.808,0.811,0.787,0.808,(6.0526)+(-0.0038)Ala+(0.0012)Val+(0.0026)Lys+(-0.1407)Trp;0.778,0.806,0.796,0.806,0.798,0.775,0.778,0.789,(5.7732)+(-0.0008)Gly+(-0.0105)Tyr+(0.0099)Leu+(-0.1496)Trp;0.778,0.807,0.810,0.818,0.817,0.792,0.785,0.803,(6.8349)+(-0.0481)Asn+(-0.0038)Arg+(0.0102)Leu+(-0.1405)Trp;0.778,0.796,0.739,0.719,0.744,0.795,0.739,0.749,(6.2652)+(-0.1328)His+(0.0135)Thr+(0.0037)Pro+(-0.0006)Val;0.778,0.796,0.738,0.722,0.743,0.800,0.727,0.748,(6.2111)+(0.0015)Gly+(-0.1352)His+(0.0138)Thr+(0.0012)Val;0.778,0.797,0.733,0.708,0.746,0.799,0.727,0.745,(6.4209)+(-0.1417)His+(0.0189)Thr+(-0.0130)Arg+(0.0124)Leu;0.778,0.806,0.790,0.799,0.805,0.788,0.740,0.783,(5.6672)+(-0.0159)Arg+(0.0220)Orn+(0.0051)Leu+(-0.1493)Trp;0.778,0.806,0.766,0.745,0.777,0.824,0.759,0.776,(6.6761)+(-0.0028)Asn+(-0.1154)His+(-0.0742)Met+(0.0375)Orn;0.778,0.804,0.818,0.836,0.816,0.818,0.778,0.812,(6.6966)+(-0.0002)Gly+(-0.0028)Ala+(-0.006

4)Arg+(-0.1332)Trp;0.778,0.800,0.741,0.703,0.746,0.798,0.792,0.760,(5
.8080)+(-0.1254)His+(-0.0342)Cit+(0.0002)Arg+(0.0475)Ile;0.778,0.803,
0.742,0.719,0.759,0.812,0.720,0.753,(6.1906)+(0.0027)Gly+(-0.1273)His
+(-0.0107)Arg+(0.0354)Orn;0.778,0.804,0.818,0.831,0.814,0.819,0.791,0
.814,(6.3450)+(-0.0004)Gly+(-0.0034)Ala+(0.0034)Tyr+(-0.1369)Trp;0.77
7,0.806,0.805,0.822,0.806,0.788,0.770,0.796,(6.1632)+(-0.0009)Gly+(-0
.0055)Tyr+(-0.0002)Val+(-0.1409)Trp;0.777,0.805,0.815,0.828,0.811,0.8
17,0.789,0.811,(6.1824)+(-0.0037)Ala+(0.0026)Tyr+(0.0017)Val+(-0.1393
)Trp;0.777,0.796,0.741,0.726,0.745,0.803,0.728,0.751,(6.3283)+(0.0014
)Gly+(-0.1329)His+(0.0142)Thr+(-0.0003)Lys;0.777,0.807,0.797,0.804,0.
804,0.777,0.779,0.791,(5.6005)+(-0.0007)Gly+(-0.0017)Lys+(0.0095)Leu+
(-0.1526)Trp;0.777,0.797,0.745,0.727,0.750,0.803,0.740,0.755,(6.4776)
+(-0.1336)His+(0.0152)Thr+(0.0009)Val+(-0.0009)Lys;0.777,0.807,0.766,
0.745,0.776,0.825,0.758,0.776,(6.6606)+(-0.1152)His+(-0.0006)Val+(-0.
0752)Met+(0.0379)Orn;0.777,0.805,0.751,0.725,0.771,0.819,0.728,0.761,
(6.8586)+(-0.1111)His+(-0.0665)Cit+(-0.0221)Tyr+(0.0564)Orn;0.777,0.8
01,0.750,0.724,0.754,0.784,0.786,0.762,(5.0387)+(-0.1355)His+(-0.0293
)Cit+(-0.0031)Arg+(0.0777)Phe;0.777,0.804,0.803,0.818,0.806,0.782,0.7
70,0.794,(6.0309)+(-0.0010)Gly+(-0.0075)Tyr+(0.0020)Lys+(-0.1433)Trp;
0.777,0.803,0.750,0.724,0.759,0.810,0.758,0.763,(6.1886)+(-0.1271)His
+(-0.0022)Val+(0.0345)Orn+(0.0006)Lys;0.777,0.803,0.742,0.712,0.752,0
.806,0.754,0.756,(5.9755)+(-0.1301)His+(0.0031)Pro+(0.0311)Orn+(-0.00
07)Lys;0.777,0.800,0.757,0.746,0.765,0.814,0.726,0.763,(7.4403)+(-0.0
346)Asn+(-0.1227)His+(0.0218)Thr+(-0.0117)Arg;0.777,0.800,0.762,0.757
,0.760,0.827,0.734,0.769,(7.2458)+(-0.1239)His+(0.0202)Thr+(-0.0028)A
la+(-0.0132)Arg;0.777,0.804,0.749,0.730,0.754,0.807,0.749,0.760,(6.41
47)+(-0.1249)His+(-0.0209)Tyr+(0.0369)Orn+(0.0023)Lys;0.777,0.803,0.8
15,0.832,0.813,0.815,0.776,0.809,(6.5553)+(-0.0032)Ala+(-0.0068)Arg+(

0.0021)Val+(-0.1362)Trp;0.777,0.795,0.734,0.739,0.672,0.801,0.801,0.753,(3.8322)+(-0.0243)Arg+(-0.0341)Tyr+(-0.0530)Val+(0.1625)Ile;0.777,0.794,0.755,0.735,0.746,0.804,0.793,0.769,(6.8497)+(-0.1205)His+(-0.0083)Tyr+(-0.0191)Val+(0.0433)Leu;0.777,0.798,0.744,0.736,0.744,0.799,0.724,0.751,(6.7329)+(-0.1275)His+(0.0170)Thr+(-0.0187)Tyr+(0.0014)Lys;0.777,0.803,0.755,0.729,0.766,0.811,0.761,0.767,(6.4791)+(-0.0261)Asn+(-0.1238)His+(0.0337)Orn+(0.0015)Lys;0.776,0.795,0.758,0.749,0.743,0.824,0.767,0.771,(6.5103)+(0.0030)Gly+(-0.1142)His+(-0.0051)Ala+(0.0099)Pro;0.776,0.803,0.734,0.703,0.763,0.821,0.695,0.745,(5.8858)+(0.0040)Gly+(-0.1218)His+(-0.0701)Cit+(0.0508)Orn;0.776,0.808,0.721,0.739,0.718,0.749,0.661,0.717,(-3.6208)+(0.0451)Ser+(-0.0179)Tyr+(-0.3581)Met+(0.1125)Phe;0.776,0.806,0.763,0.742,0.773,0.822,0.757,0.773,(6.4409)+(-0.1193)His+(-0.0927)Met+(0.0348)Orn+(0.0053)Lys;0.776,0.805,0.809,0.817,0.806,0.805,0.799,0.807,(6.1729)+(-0.0044)Ala+(-0.0073)Arg+(0.0150)Leu+(-0.1447)Trp;0.776,0.800,0.754,0.721,0.780,0.823,0.739,0.766,(6.8442)+(-0.0268)Asn+(-0.1112)His+(-0.0654)Cit+(0.0521)Orn;0.776,0.796,0.719,0.729,0.647,0.787,0.792,0.739,(2.7123)+(-0.0451)Tyr+(-0.0396)Val+(0.1811)Ile+(-0.0375)Leu;0.776,0.792,0.733,0.731,0.679,0.806,0.797,0.753,(3.1204)+(-0.0295)Arg+(-0.0447)Val+(0.1890)Ile+(-0.0377)Leu;0.776,0.807,0.764,0.744,0.772,0.823,0.756,0.774,(6.7115)+(-0.1153)His+(-0.0068)Tyr+(-0.0659)Met+(0.0386)Orn;0.776,0.800,0.714,0.741,0.651,0.745,0.750,0.722,(0.1737)+(-0.0814)Tyr+(0.1607)Ile+(-0.0997)Leu+(0.0826)Phe;0.776,0.805,0.804,0.811,0.812,0.792,0.778,0.798,(6.4345)+(-0.0010)Arg+(-0.1152)Met+(0.0160)Leu+(-0.1377)Trp;0.776,0.802,0.767,0.763,0.737,0.817,0.804,0.780,(3.3140)+(-0.0105)Asn+(-0.2276)Met+(0.1659)Ile+(-0.0807)Leu;0.775,0.795,0.745,0.724,0.749,0.804,0.751,0.757,(6.3321)+(-0.0224)Asn+(0.0041)Gly+(-0.1288)His+(0.0146)Leu;0.775,0.808,0.793,0.804,0.796,0.777,0.768,0.786,(5.6579)+(-0.0098)Tyr+(-0.0009)

Lys+(0.0104)Leu+(-0.1495)Trp;0.775,0.805,0.814,0.830,0.820,0.806,0.768,0.806,(6.8552)+(-0.0016)Arg+(0.0022)Val+(-0.0901)Met+(-0.1305)Trp;0.775,0.794,0.722,0.709,0.675,0.809,0.790,0.746,(2.6015)+(-0.0352)Arg+(-0.0591)Val+(0.0257)Orn+(0.1613)Ile;0.775,0.799,0.747,0.744,0.753,0.807,0.702,0.751,(7.3163)+(-0.1236)His+(0.0219)Thr+(-0.0139)Arg+(-0.0177)Tyr;0.775,0.801,0.758,0.744,0.769,0.814,0.732,0.765,(7.4431)+(-0.0423)Asn+(-0.1166)His+(0.0204)Thr+(-0.0321)Cit;0.775,0.801,0.721,0.703,0.658,0.801,0.844,0.751,(1.6761)+(-0.0538)Val+(-0.0183)Lys+(0.1547)Ile+(0.0326)Phe;0.775,0.796,0.734,0.715,0.687,0.818,0.823,0.761,(3.5818)+(-0.0618)Cit+(-0.0493)Val+(-0.0144)Lys+(0.1590)Ile;0.775,0.793,0.768,0.754,0.752,0.822,0.796,0.781,(6.8841)+(-0.1131)His+(-0.0053)Ala+(0.0095)Pro+(0.0013)Val;0.775,0.804,0.760,0.754,0.732,0.817,0.793,0.774,(2.8908)+(-0.2455)Met+(0.0102)Orn+(0.1655)Ile+(-0.0819)Leu;0.775,0.795,0.757,0.734,0.751,0.807,0.795,0.772,(6.8030)+(-0.1216)His+(-0.0026)Arg+(-0.0200)Val+(0.0435)Leu;0.775,0.805,0.820,0.835,0.818,0.822,0.784,0.815,(6.5769)+(-0.0032)Ala+(-0.0074)Arg+(0.0067)Tyr+(-0.1356)Trp;0.775,0.798,0.757,0.772,0.706,0.798,0.792,0.767,(4.1596)+(-0.0722)Asn+(-0.0444)Tyr+(0.1521)Ile+(-0.0808)Leu;0.775,0.801,0.734,0.699,0.764,0.815,0.708,0.747,(6.0977)+(-0.1279)His+(0.0103)Thr+(-0.0638)Cit+(0.0453)Orn;0.775,0.790,0.733,0.722,0.684,0.811,0.806,0.756,(3.1482)+(-0.0432)Cit+(-0.0208)Arg+(-0.0541)Val+(0.1594)Ile;0.775,0.793,0.769,0.749,0.762,0.818,0.804,0.783,(7.0290)+(-0.0090)Asn+(-0.1217)His+(-0.0037)Ala+(0.0166)Leu;0.774,0.797,0.747,0.734,0.757,0.807,0.716,0.754,(6.9466)+(-0.1304)His+(0.0191)Thr+(-0.0138)Arg+(0.0004)Val;0.774,0.797,0.769,0.748,0.766,0.812,0.800,0.781,(7.2391)+(-0.1064)His+(-0.0225)Val+(-0.1011)Met+(0.0534)Leu;0.774,0.798,0.743,0.733,0.753,0.809,0.699,0.748,(6.7738)+(0.0018)Gly+(-0.1301)His+(0.0183)Thr+(-0.0143)Arg;0.774,0.799,0.740,0.724,0.753,0.800,0.713,0.747,(6.7252)+(-0.1306)His+(0.0

178)Thr+(-0.0143)Arg+(0.0038)Pro;0.774,0.797,0.748,0.740,0.755,0.812,0.710,0.754,(7.1041)+(-0.1199)His+(0.0191)Thr+(-0.0313)Cit+(-0.0176)Tyr;0.774,0.792,0.763,0.752,0.756,0.823,0.762,0.773,(6.7002)+(0.0031)Gly+(-0.1213)His+(-0.0029)Ala+(0.0042)Val;0.774,0.796,0.792,0.798,0.778,0.776,0.812,0.791,(1.6031)+(-0.0400)Val+(-0.3216)Met+(0.0564)Leu+(0.1066)Phe;0.774,0.791,0.733,0.706,0.740,0.792,0.743,0.745,(5.7681)+(0.0036)Gly+(-0.1351)His+(0.0034)Pro+(0.0122)Leu;0.774,0.802,0.752,0.735,0.762,0.808,0.738,0.761,(6.8421)+(-0.1194)His+(-0.0088)Arg+(-0.0182)Tyr+(0.0405)Orn;0.774,0.803,0.762,0.762,0.730,0.813,0.794,0.774,(3.3101)+(-0.0132)Tyr+(-0.2166)Met+(0.1677)Ile+(-0.0806)Leu;0.774,0.801,0.759,0.756,0.729,0.816,0.787,0.772,(2.8682)+(0.0015)Gly+(-0.2444)Met+(0.1679)Ile+(-0.0810)Leu;0.774,0.789,0.732,0.725,0.677,0.807,0.813,0.756,(3.0256)+(-0.0005)Gly+(-0.0289)Arg+(-0.0569)Val+(0.1624)Ile;0.773,0.797,0.768,0.771,0.693,0.843,0.864,0.793,(1.6744)+(0.0002)Gln+(-0.0119)Ala+(0.1675)Ile+(-0.0862)Leu;0.773,0.800,0.743,0.711,0.758,0.807,0.751,0.757,(6.2305)+(-0.1318)His+(-0.0084)Arg+(0.0324)Orn+(0.0073)Leu;0.773,0.793,0.772,0.762,0.756,0.823,0.795,0.784,(7.2275)+(-0.0160)Asn+(-0.1068)His+(-0.0051)Ala+(0.0099)Pro;0.773,0.795,0.706,0.707,0.682,0.809,0.676,0.719,(-0.3729)+(0.0305)Ser+(-0.0440)Arg+(0.1708)Ile+(-0.0980)Leu;0.773,0.798,0.748,0.715,0.772,0.821,0.730,0.760,(6.5052)+(-0.1156)His+(-0.0652)Cit+(-0.0025)Val+(0.0528)Orn;0.773,0.803,0.764,0.760,0.734,0.817,0.799,0.777,(3.1047)+(0.0003)Pro+(-0.2405)Met+(0.1670)Ile+(-0.0812)Leu;0.773,0.801,0.754,0.731,0.766,0.814,0.745,0.764,(6.6197)+(-0.1216)His+(-0.0099)Arg+(-0.0025)Val+(0.0382)Orn;0.773,0.795,0.772,0.774,0.698,0.844,0.869,0.796,(2.0103)+(-0.0012)Gly+(-0.0117)Ala+(0.1674)Ile+(-0.0861)Leu;0.773,0.798,0.748,0.714,0.775,0.819,0.730,0.760,(6.5937)+(-0.1156)His+(-0.0667)Cit+(0.0531)Orn+(-0.0032)Lys;0.773,0.792,0.740,0.722,0.741,0.797,0.745,0.751,(6.2795)+(0.0033)Gly+(-

0.1308)His+(-0.0121)Tyr+(0.0160)Leu;0.773,0.801,0.755,0.730,0.768,0.8
15,0.752,0.766,(6.7334)+(-0.0181)Asn+(-0.1210)His+(-0.0078)Arg+(0.036
5)Orn;0.773,0.799,0.775,0.774,0.708,0.847,0.867,0.799,(2.6763)+(-0.01
10)Ala+(-0.0093)Lys+(0.1658)Ile+(-0.0803)Leu;0.773,0.793,0.730,0.700,
0.745,0.793,0.735,0.743,(6.2114)+(-0.1385)His+(0.0164)Thr+(-0.0329)Ci
t+(0.0136)Leu;0.772,0.800,0.743,0.715,0.758,0.806,0.741,0.755,(6.2929
)+(-0.1265)His+(-0.0099)Arg+(0.0033)Pro+(0.0334)Orn;0.772,0.795,0.764
,0.755,0.764,0.832,0.742,0.773,(7.1493)+(-0.1177)His+(0.0181)Thr+(-0.
0034)Ala+(-0.0348)Cit;0.772,0
.804,0.813,0.829,0.812,0.810,0.770,0.805,(6.3867)+(-0.0032)Ala+(-0.01
10)Arg+(0.0062)Lys+(-0.1394)Trp;0.772,0.790,0.731,0.724,0.676,0.807,0
.809,0.754,(2.8850)+(0.0002)Gln+(-0.0295)Arg+(-0.0568)Val+(0.1622)Ile
;0.772,0.793,0.765,0.746,0.756,0.814,0.796,0.778,(6.9909)+(-0.1224)Hi
s+(-0.0034)Ala+(-0.0075)Tyr+(0.0174)Leu;0.772,0.798,0.752,0.734,0.760
,0.808,0.746,0.762,(6.4464)+(0.0045)Gly+(-0.1225)His+(-0.0984)Met+(0.
0208)Leu;0.772,0.797,0.766,0.768,0.692,0.841,0.859,0.790,(1.6794)+(-0
.0119)Ala+(0.0039)Orn+(0.1664)Ile+(-0.0862)Leu;0.772,0.794,0.766,0.74
4,0.760,0.817,0.803,0.781,(6.7408)+(-0.1260)His+(-0.0039)Ala+(0.0020)
Lys+(0.0159)Leu;0.772,0.796,0.775,0.767,0.761,0.825,0.789,0.786,(7.28
90)+(-0.0999)His+(-0.0044)Ala+(0.0116)Pro+(-0.0722)Met;0.772,0.794,0.
768,0.747,0.761,0.817,0.800,0.781,(6.9112)+(-0.1236)His+(-0.0038)Ala+
(-0.0012)Arg+(0.0167)Leu;0.772,0.792,0.766,0.759,0.750,0.817,0.784,0.
777,(7.0974)+(-0.1077)His+(-0.0048)Ala+(0.0105)Pro+(-0.0103)Tyr;0.772
,0.792,0.764,0.751,0.748,0.818,0.792,0.777,(6.6142)+(-0.1168)His+(-0.
0055)Ala+(0.0095)Pro+(0.0047)Lys;0.772,0.793,0.738,0.714,0.742,0.800,
0.747,0.751,(5.9522)+(0.0036)Gly+(-0.1353)His+(0.0003)Lys+(0.0143)Leu
;0.772,0.802,0.807,0.822,0.814,0.795,0.757,0.797,(6.4110)+(-0.0004)Gl
y+(-0.0088)Arg+(-0.0000)Val+(-0.1398)Trp;0.772,0.805,0.765,0.743,0.77

7,0.824,0.752,0.774,(6.8200)+(-0.1146)His+(-0.0058)Arg+(-0.0696)Met+(0.0389)Orn;0.772,0.800,0.802,0.818,0.810,0.787,0.750,0.792,(6.1657)+(-0.0004)Gly+(-0.0125)Arg+(0.0047)Lys+(-0.1455)Trp;0.772,0.796,0.752,0.769,0.728,0.790,0.728,0.754,(0.0923)+(0.0457)Ser+(-0.1978)Asn+(-0.0201)Val+(0.0983)Phe;0.771,0.795,0.744,0.731,0.755,0.805,0.713,0.751,(6.8545)+(-0.1316)His+(0.0185)Thr+(-0.0150)Arg+(0.0023)Lys;0.771,0.793,0.740,0.727,0.751,0.812,0.701,0.748,(6.5169)+(0.0024)Gly+(-0.1261)His+(0.0152)Thr+(-0.0350)Cit;0.771,0.789,0.733,0.726,0.678,0.810,0.813,0.757,(2.9711)+(-0.0285)Arg+(-0.0017)Pro+(-0.0567)Val+(0.1641)Ile;0.771,0.791,0.739,0.717,0.751,0.803,0.725,0.749,(6.5399)+(-0.1270)His+(0.0149)Thr+(-0.0318)Cit+(0.0037)Pro;0.771,0.797,0.741,0.704,0.768,0.816,0.729,0.754,(6.2223)+(-0.1206)His+(-0.0636)Cit+(0.0024)Pro+(0.0486)Orn;0.771,0.804,0.797,0.807,0.807,0.779,0.762,0.789,(5.9536)+(-0.0002)Gly+(-0.0103)Arg+(0.0097)Leu+(-0.1501)Trp;0.771,0.801,0.764,0.760,0.734,0.816,0.799,0.777,(3.0633)+(-0.2416)Met+(0.0007)Lys+(0.1677)Ile+(-0.0816)Leu;0.771,0.798,0.748,0.721,0.761,0.808,0.744,0.759,(6.3949)+(-0.1276)His+(-0.0105)Arg+(0.0347)Orn+(0.0022)Lys;0.771,0.790,0.770,0.767,0.759,0.825,0.759,0.777,(7.2175)+(-0.0181)Asn+(0.0031)Gly+(-0.1104)His+(-0.0019)Ala;0.771,0.801,0.802,0.820,0.809,0.789,0.747,0.791,(6.1638)+(-0.0128)Arg+(-0.0013)Val+(0.0053)Lys+(-0.1437)Trp;0.771,0.788,0.691,0.667,0.646,0.806,0.770,0.722,(0.1050)+(0.0195)Ser+(-0.0700)Cit+(-0.0511)Val+(0.1475)Ile;0.771,0.802,0.806,0.823,0.812,0.795,0.756,0.797,(6.4396)+(-0.0004)Gly+(-0.0086)Arg+(-0.0013)Tyr+(-0.1392)Trp;0.771,0.795,0.763,0.765,0.688,0.841,0.860,0.789,(1.7416)+(-0.0126)Ala+(0.0033)Pro+(0.1632)Ile+(-0.0852)Leu;0.771,0.794,0.779,0.783,0.721,0.848,0.836,0.797,(3.2905)+(-0.0103)Ala+(-0.0243)Arg+(0.1771)Ile+(-0.0901)Leu;0.770,0.799,0.756,0.748,0.758,0.810,0.733,0.762,(6.6447)+(0.0038)Gly+(-0.1084)His+(0.0088)Pro+(-0.0952)Met;0.770,0.803,0.795,0.806,0

.806,0.779,0.756,0.787,(5.8622)+(-0.0118)Arg+(0.0019)Lys+(0.0087)Leu+(-0.1514)Trp;0.770,0.794,0.774,0.755,0.772,0.818,0.801,0.786,(7.1956)+(-0.1157)His+(-0.0027)Ala+(-0.0719)Met+(0.0200)Leu;0.770,0.792,0.710,0.683,0.673,0.810,0.782,0.737,(1.5862)+(-0.0925)Cit+(-0.0529)Val+(0.0364)Orn+(0.1430)Ile;0.770,0.790,0.754,0.728,0.753,0.805,0.788,0.769,(6.8992)+(-0.1185)His+(-0.0214)Cit+(-0.0188)Val+(0.0422)Leu;0.770,0.790,0.727,0.732,0.652,0.788,0.828,0.750,(3.3037)+(-0.0036)Gly+(-0.0462)Tyr+(-0.0513)Val+(0.1542)Ile;0.770,0.796,0.776,0.778,0.705,0.839,0.872,0.798,(2.3086)+(-0.0082)Thr+(-0.0110)Ala+(0.1714)Ile+(-0.0869)Leu;0.770,0.802,0.805,0.822,0.811,0.795,0.752,0.795,(6.3642)+(-0.0088)Arg+(-0.0012)Tyr+(0.0001)Val+(-0.1395)Trp;0.770,0.791,0.739,0.717,0.745,0.801,0.739,0.751,(6.1715)+(0.0038)Gly+(-0.1325)His+(-0.0050)Arg+(0.0144)Leu;0.770,0.792,0.748,0.732,0.757,0.812,0.726,0.757,(6.8530)+(-0.1251)His+(0.0168)Thr+(-0.0317)Cit+(-0.0010)Lys;0.770,0.789,0.747,0.736,0.749,0.798,0.739,0.755,(6.5806)+(-0.0263)Asn+(0.0037)Gly+(-0.1171)His+(0.0059)Pro;0.770,0.795,0.713,0.692,0.657,0.807,0.820,0.744,(2.3546)+(-0.0532)Val+(0.0196)Orn+(-0.0184)Lys+(0.1555)Ile;0.770,0.788,0.762,0.755,0.751,0.819,0.760,0.771,(6.5488)+(0.0027)Gly+(-0.1212)His+(-0.0026)Ala+(0.0055)Lys;0.770,0.792,0.744,0.725,0.755,0.807,0.725,0.753,(6.6869)+(-0.1283)His+(0.0162)Thr+(-0.0322)Cit+(0.0014)Val;0.770,0.791,0.769,0.759,0.753,0.823,0.789,0.781,(7.1189)+(-0.1093)His+(-0.0051)Ala+(-0.0043)Arg+(0.0099)Pro;0.770,0.794,0.709,0.713,0.637,0.786,0.792,0.732,(2.2171)+(-0.0495)Tyr+(-0.0518)Val+(0.0173)Orn+(0.1501)Ile;0.769,0.798,0.741,0.740,0.779,0.828,0.604,0.738,(1.1868)+(0.0348)Ser+(-0.0989)Cit+(-0.2527)Met+(0.0410)Orn;0.769,0.795,0.768,0.783,0.782,0.825,0.660,0.762,(2.6462)+(0.0425)Ser+(-0.0797)Asn+(-0.0629)Cit+(-0.1573)Met;0.769,0.791,0.733,0.723,0.680,0.808,0.813,0.756,(3.3937)+(-0.0240)Arg+(-0.0548)Val+(-0.0078)Lys+(0.1641)Ile;0.769,0.795,0.740,0.70

1,0.767,0.814,0.733,0.754,(6.1645)+(-0.1245)His+(-0.0625)Cit+(0.0474)Orn+(0.0061)Leu;0.769,0.793,0.691,0.692,0.618,0.789,0.769,0.717,(0.7146)+(0.0172)Ser+(-0.0467)Tyr+(-0.0498)Val+(0.1494)Ile;0.769,0.789,0.757,0.747,0.756,0.811,0.744,0.765,(6.8285)+(-0.0195)Asn+(0.0035)Gly+(-0.1188)His+(0.0020)Val;0.769,0.795,0.745,0.710,0.772,0.819,0.728,0.757,(6.4306)+(-0.1189)His+(-0.0634)Cit+(-0.0016)Arg+(0.0506)Orn;0.769,0.787,0.769,0.747,0.767,0.821,0.793,0.782,(7.2129)+(-0.1159)His+(-0.0042)Ala+(-0.0315)Cit+(0.0180)Leu;0.769,0.803,0.795,0.806,0.803,0.778,0.758,0.786,(6.0119)+(-0.0095)Arg+(-0.0058)Tyr+(0.0104)Leu+(-0.1480)Trp;0.769,0.797,0.735,0.724,0.680,0.842,0.803,0.762,(-0.0291)+(0.0418)Ser+(-0.1456)Asn+(-0.0101)Ala+(0.0533)Ile;0.769,0.793,0.718,0.703,0.655,0.805,0.828,0.748,(2.5633)+(0.0026)Thr+(-0.0527)Val+(-0.0167)Lys+(0.1579)Ile;0.769,0.788,0.741,0.726,0.743,0.796,0.735,0.750,(6.1814)+(0.0031)Gly+(-0.1249)His+(0.0053)Pro+(0.0003)Val;0.768,0.788,0.743,0.735,0.740,0.795,0.731,0.750,(6.4992)+(0.0027)Gly+(-0.1183)His+(0.0068)Pro+(-0.0140)Tyr;0.768,0.789,0.713,0.714,0.644,0.782,0.803,0.736,(3.3184)+(-0.0018)Gln+(-0.0425)Tyr+(-0.0514)Val+(0.1557)Ile;0.768,0.793,0.760,0.738,0.766,0.800,0.778,0.770,(6.8273)+(-0.1144)His+(0.0064)Pro+(-0.1094)Met+(0.0151)Leu;0.768,0.789,0.776,0.764,0.769,0.821,0.790,0.786,(7.3529)+(-0.0086)Asn+(-0.1142)His+(-0.0026)Ala+(0.0030)Val;0.768,0.793,0.766,0.758,0.737,0.832,0.796,0.781,(4.1208)+(-0.0776)Asn+(-0.0728)Cit+(0.1511)Ile+(-0.0825)Leu;0.768,0.795,0.782,0.772,0.764,0.798,0.836,0.793,(0.5654)+(-0.0082)Ala+(-0.2871)Met+(0.0547)Ile+(0.0673)Phe;0.768,0.801,0.800,0.819,0.807,0.787,0.745,0.789,(6.1617)+(-0.0123)Arg+(-0.0040)Tyr+(0.0050)Lys+(-0.1440)Trp;0.768,0.786,0.718,0.698,0.670,0.796,0.814,0.744,(2.8008)+(-0.0015)Gln+(-0.0610)Cit+(-0.0526)Val+(0.1531)Ile;0.768,0.791,0.767,0.762,0.757,0.823,0.760,0.775,(6.9230)+(0.0028)Gly+(-0.1154)His+(-0.0021)Ala+(0.0008)Tyr;0.768,0.794,0.779,0.

802,0.764,0.846,0.701,0.778,(1.7726)+(0.0414)Ser+(-0.0847)Asn+(-0.0025)Ala+(-0.1524)Met;0.768,0.791,0.725,0.709,0.662,0.803,0.840,0.754,(2.8683)+(-0.0016)Gly+(-0.0525)Val+(-0.0151)Lys+(0.1576)Ile;0.768,0.801,0.764,0.765,0.752,0.837,0.730,0.771,(3.4289)+(0.0307)Thr+(-0.0471)Val+(-0.3382)Met+(0.0808)Leu;0.768,0.786,0.735,0.711,0.749,0.799,0.723,0.745,(6.1449)+(0.0047)Gly+(-0.1280)His+(-0.0349)Cit+(0.0157)Leu;0.768,0.787,0.737,0.721,0.738,0.794,0.736,0.747,(5.9883)+(0.0030)Gly+(-0.1280)His+(0.0051)Pro+(0.0029)Lys;0.767,0.793,0.758,0.780,0.764,0.822,0.639,0.751,(1.5297)+(0.0395)Ser+(-0.0907)Asn+(0.0109)Thr+(-0.2099)Met;0.767,0.790,0.752,0.727,0.754,0.796,0.781,0.764,(6.6439)+(-0.0166)Asn+(-0.1250)His+(0.0036)Pro+(0.0104)Leu;0.767,0.788,0.696,0.672,0.624,0.792,0.840,0.732,(-0.2490)+(0.0297)Ser+(-0.0099)Gly+(-0.0565)Val+(0.1509)Ile;0.767,0.790,0.715,0.697,0.662,0.789,0.818,0.741,(1.1231)+(-0.0681)Cit+(-0.0539)Val+(0.1476)Ile+(0.0279)Phe;0.767,0.790,0.720,0.709,0.658,0.803,0.822,0.748,(2.5284)+(-0.0447)Val+(-0.0133)Lys+(0.1755)Ile+(-0.0266)Leu;0.767,0.790,0.726,0.712,0.663,0.810,0.834,0.755,(2.7227)+(-0.0040)Pro+(-0.0523)Val+(-0.0150)Lys+(0.1623)Ile;0.767,0.790,0.744,0.726,0.742,0.786,0.764,0.755,(6.6786)+(-0.1238)His+(0.0051)Pro+(-0.0201)Tyr+(0.0123)Leu;0.767,0.788,0.753,0.744,0.751,0.807,0.740,0.761,(6.6474)+(0.0029)Gly+(-0.1228)His+(-0.0072)Tyr+(0.0030)Val;0.767,0.789,0.771,0.759,0.761,0.826,0.787,0.783,(7.3357)+(-0.1018)His+(-0.0058)Ala+(-0.0332)Cit+(0.0108)Pro;0.767,0.794,0.747,0.733,0.761,0.813,0.710,0.754,(7.0686)+(-0.1253)His+(0.0191)Thr+(-0.0245)Cit+(-0.0099)Arg;0.767,0.785,0.747,0.734,0.748,0.802,0.740,0.756,(6.2582)+(0.0029)Gly+(-0.1282)His+(0.0014)Val+(0.0036)Lys;0.767,0.788,0.715,0.720,0.642,0.788,0.801,0.738,(2.5699)+(-0.0014)Pro+(-0.0440)Tyr+(-0.0510)Val+(0.1544)Ile;0.767,0.785,0.722,0.706,0.669,0.802,0.818,0.749,(2.2719)+(-0.0026)Thr+(-0.0631)Cit+(-0.0518)Val+(0.1508)Ile;0.767,0.795,0.757,0

.754,0.715,0.788,0.829,0.771,(1.7932)+(-0.1147)Asn+(0.1417)Ile+(-0.0915)Leu+(0.0553)Phe;0.767,0.787,0.774,0.764,0.764,0.818,0.792,0.784,(7.2306)+(-0.0213)Asn+(-0.1146)His+(-0.0025)Ala+(0.0070)Lys;0.767,0.785,0.658,0.626,0.607,0.780,0.762,0.694,(1.1714)+(0.0271)Ser+(-0.0065)Gln+(-0.0557)Val+(0.1574)Ile;0.767,0.789,0.769,0.756,0.760,0.818,0.787,0.780,(6.8828)+(-0.1211)His+(-0.0030)Ala+(0.0023)Val+(0.0049)Lys;0.767,0.787,0.751,0.742,0.746,0.795,0.755,0.760,(6.9085)+(-0.1154)His+(0.0067)Pro+(-0.0166)Tyr+(0.0005)Val;0.766,0.794,0.754,0.763,0.713,0.814,0.773,0.766,(-0.5698)+(0.0434)Ser+(-0.1706)Asn+(-0.0080)Ala+(0.0672)Phe;0.766,0.792,0.723,0.722,0.655,0.800,0.809,0.747,(3.3465)+(-0.0358)Tyr+(-0.0494)Val+(-0.0107)Lys+(0.1570)Ile;0.766,0.788,0.745,0.718,0.750,0.793,0.775,0.759,(6.3075)+(-0.1308)His+(0.0033)Pro+(0.0005)Lys+(0.0105)Leu;0.766,0.789,0.773,0.761,0.766,0.819,0.786,0.783,(7.2551)+(-0.1159)His+(-0.0026)Ala+(-0.0044)Tyr+(0.0036)Val;0.766,0.789,0.712,0.717,0.640,0.783,0.796,0.734,(2.4997)+(0.0012)Thr+(-0.0463)Tyr+(-0.0511)Val+(0.1527)Ile;0.766,0.784,0.749,0.732,0.749,0.794,0.761,0.759,(6.4417)+(-0.1237)His+(0.0052)Pro+(-0.0014)Val+(0.0035)Lys;0.766,0.788,0.767,0.763,0.759,0.822,0.753

,0.774,(7.1010)+(0.0029)Gly+(-0.1135)His+(-0.0019)Ala+(-0.0042)Arg;0.766,0.788,0.765,0.748,0.773,0.767,0.791,0.770,(0.9122)+(-0.3110)Met+(-0.0128)Lys+(0.0488)Ile+(0.0722)Phe;0.766,0.785,0.722,0.710,0.670,0.808,0.800,0.747,(2.3609)+(-0.0685)Cit+(-0.0395)Val+(0.1805)Ile+(-0.0403)Leu;0.766,0.789,0.717,0.701,0.658,0.800,0.827,0.746,(3.0399)+(-0.0012)Gln+(-0.0527)Val+(-0.0143)Lys+(0.1587)Ile;0.766,0.788,0.752,0.742,0.754,0.809,0.735,0.760,(6.6931)+(0.0033)Gly+(-0.1227)His+(-0.0053)Arg+(0.0024)Val;0.766,0.787,0.755,0.737,0.757,0.795,0.772,0.765,(6.7435)+(-0.0249)Asn+(-0.1199)His+(0.0050)Pro+(0.0046)Lys;0.765,0.788,0.754,0.738,0.751,0.795,0.775,0.765,(7.0320)+(-0.0102)Asn+(-0.1228)His+(-0

.0133)Tyr+(0.0146)Leu;0.765,0.791,0.772,0.771,0.764,0.825,0.752,0.778,(7.1708)+(0.0031)Gly+(-0.1084)His+(-0.0011)Ala+(-0.0468)Met;0.765,0.794,0.729,0.732,0.750,0.807,0.622,0.728,(1.1011)+(0.0411)Ser+(-0.0735)Cit+(0.0120)Pro+(-0.2828)Met;0.765,0.788,0.760,0.744,0.760,0.801,0.771,0.769,(7.0481)+(-0.0199)Asn+(-0.1133)His+(0.0059)Pro+(-0.0013)Val;0.765,0.789,0.770,0.758,0.740,0.816,0.831,0.786,(2.5083)+(-0.0101)Ala+(0.0093)Pro+(-0.2420)Met+(0.0592)Ile;0.765,0.787,0.754,0.744,0.754,0.804,0.745,0.762,(6.6616)+(-0.0307)Asn+(0.0035)Gly+(-0.1202)His+(0.0063)Lys;0.765,0.783,0.765,0.751,0.763,0.802,0.776,0.773,(7.0649)+(-0.0236)Asn+(-0.1180)His+(-0.0005)Val+(0.0060)Lys;0.765,0.789,0.756,0.732,0.758,0.798,0.784,0.768,(6.7353)+(-0.0170)Asn+(-0.1270)His+(0.0022)Lys+(0.0117)Leu;0.765,0.787,0.761,0.757,0.757,0.815,0.745,0.768,(7.0684)+(-0.0200)Asn+(0.0032)Gly+(-0.1137)His+(-0.0021)Tyr;0.765,0.793,0.764,0.754,0.763,0.804,0.764,0.771,(7.0898)+(-0.1064)His+(0.0081)Pro+(0.0005)Val+(-0.0874)Met;0.765,0.793,0.763,0.756,0.761,0.819,0.742,0.770,(6.8381)+(0.0037)Gly+(-0.1158)His+(0.0041)Val+(-0.0661)Met;0.765,0.792,0.764,0.754,0.763,0.806,0.763,0.771,(7.0427)+(0.0050)Asn+(-0.1065)His+(0.0083)Pro+(-0.0910)Met;0.765,0.796,0.718,0.713,0.734,0.760,0.670,0.719,(-0.3409)+(0.0461)Ser+(-0.1803)Asn+(-0.0805)Cit+(0.0636)Phe;0.764,0.798,0.766,0.766,0.739,0.821,0.784,0.777,(3.7315)+(-0.0137)Arg+(-0.2124)Met+(0.1707)Ile+(-0.0835)Leu;0.764,0.787,0.769,0.761,0.757,0.813,0.781,0.778,(7.0103)+(-0.1175)His+(-0.0023)Ala+(-0.0071)Tyr+(0.0065)Lys;0.764,0.792,0.713,0.745,0.685,0.731,0.671,0.708,(-0.6957)+(0.0459)Ser+(-0.1694)Asn+(-0.0645)Tyr+(0.0888)Phe;0.764,0.781,0.714,0.710,0.645,0.795,0.810,0.740,(1.3886)+(-0.0061)Pro+(-0.0441)Val+(0.1876)Ile+(-0.0386)Leu;0.764,0.789,0.777,0.768,0.771,0.822,0.784,0.786,(7.4239)+(-0.1108)His+(-0.0020)Ala+(0.0040)Val+(-0.0463)Met;0.764,0.787,0.778,0.770,0.768,0.820,0.789,0.787,(7.5554)+(-0.0116)Asn+(-0.1089)Hi

s+(-0.0020)Ala+(-0.0008)Tyr;0.764,0.795,0.762,0.749,0.763,0.798,0.768,0.769,(6.6392)+(-0.1127)His+(0.0082)Pro+(-0.1194)Met+(0.0095)Lys;0.764,0.785,0.718,0.702,0.666,0.799,0.814,0.745,(2.0815)+(0.0002)Gly+(-0.0651)Cit+(-0.0521)Val+(0.1505)Ile;0.764,0.791,0.768,0.766,0.764,0.822,0.746,0.774,(7.1520)+(-0.0062)Asn+(0.0033)Gly+(-0.1090)His+(-0.0498)Met;0.764,0.790,0.791,0.774,0.779,0.833,0.827,0.804,(3.7262)+(-0.0093)Ala+(-0.0751)Cit+(-0.1851)Met+(0.0715)Ile;0.764,0.786,0.746,0.737,0.739,0.787,0.754,0.754,(6.6264)+(-0.1201)His+(0.0067)Pro+(-0.0210)Tyr+(0.0055)Lys;0.764,0.789,0.732,0.744,0.733,0.795,0.653,0.731,(0.8618)+(0.0451)Ser+(-0.0811)Asn+(0.0098)Pro+(-0.2269)Met;0.764,0.788,0.774,0.761,0.767,0.821,0.787,0.784,(7.2954)+(-0.1158)His+(-0.0027)Ala+(-0.0024)Arg+(0.0033)Val;0.764,0.791,0.762,0.739,0.768,0.801,0.781,0.772,(6.8520)+(0.0142)Asn+(-0.1205)His+(-0.0997)Met+(0.0190)Leu;0.764,0.789,0.757,0.747,0.753,0.796,0.762,0.764,(7.1919)+(-0.0157)Asn+(-0.1104)His+(0.0070)Pro+(-0.0152)Tyr;0.764,0.787,0.757,0.734,0.759,0.801,0.779,0.768,(6.8612)+(-0.0124)Asn+(-0.1254)His+(-0.0017)Arg+(0.0127)Leu;0.764,0.784,0.724,0.708,0.672,0.807,0.817,0.751,(2.2594)+(-0.0635)Cit+(-0.0041)Pro+(-0.0518)Val+(0.1551)Ile;0.764,0.787,0.749,0.732,0.746,0.789,0.771,0.760,(6.7293)+(-0.1277)His+(-0.0163)Tyr+(0.0028)Lys+(0.0137)Leu;0.764,0.789,0.688,0.705,0.631,0.764,0.705,0.701,(0.1106)+(0.0180)Ser+(-0.0585)Tyr+(0.1530)Ile+(-0.0822)Leu;0.764,0.795,0.758,0.784,0.768,0.742,0.681,0.744,(0.1004)+(0.0279)Thr+(-0.0168)Val+(-0.3716)Met+(0.1255)Phe;0.763,0.794,0.730,0.719,0.760,0.813,0.636,0.732,(1.8062)+(0.0385)Ser+(-0.1616)Asn+(-0.1027)Cit+(0.0414)Orn;0.763,0.792,0.752,0.768,0.754,0.816,0.657,0.749,(1.0066)+(0.0420)Ser+(-0.0928)Asn+(-0.1904)Met+(0.0203)Orn;0.763,0.784,0.738,0.723,0.748,0.803,0.710,0.746,(6.4090)+(0.0041)Gly+(-0.1171)His+(-0.0333)Cit+(0.0058)Pro;0.763,0.792,0.765,0.743,0.770,0.803,0.786,0.775,(6.9410)+(-0.1188)His+(0.0029)A

rg+(-0.0912)Met+(0.0185)Leu;0.763,0.787,0.779,0.773,0.772,0.821,0.782,0.787,(7.5773)+(-0.0015)Asn+(-0.1060)His+(-0.0013)Ala+(-0.0391)Met;0.763,0.784,0.750,0.744,0.745,0.800,0.738,0.757,(6.5139)+(0.0025)Gly+(-0.1233)His+(-0.0094)Tyr+(0.0055)Lys;0.763,0.801,0.745,0.746,0.723,0.835,0.720,0.756,(0.7258)+(0.0387)Ser+(-0.0385)Val+(-0.2903)Met+(0.0721)Leu;0.763,0.786,0.761,0.756,0.759,0.815,0.741,0.768,(7.1169)+(-0.0178)Asn+(0.0034)Gly+(-0.1137)His+(-0.0035)Arg;0.763,0.787,0.747,0.721,0.752,0.795,0.772,0.760,(6.5252)+(-0.1279)His+(-0.0043)Arg+(0.0037)Pro+(0.0103)Leu;0.763,0.787,0.778,0.770,0.768,0.821,0.789,0.787,(7.5943)+(-0.0104)Asn+(-0.1088)His+(-0.0020)Ala+(-0.0017)Arg;0.763,0.788,0.742,0.758,0.772,0.823,0.581,0.733,(1.7278)+(0.0333)Ser+(0.0124)Thr+(-0.0709)Cit+(-0.2688)Met;0.763,0.786,0.758,0.742,0.760,0.801,0.766,0.767,(7.0687)+(-0.0153)Asn+(-0.1148)His+(-0.0037)Arg+(0.0056)Pro;0.763,0.786,0.742,0.730,0.746,0.798,0.723,0.749,(6.4452)+(0.0034)Gly+(-0.1212)His+(-0.0071)Arg+(0.0059)Pro;0.762,0.793,0.764,0.755,0.762,0.805,0.761,0.771,(7.1414)+(-0.1052)His+(0.0084)Pro+(-0.0031)Tyr+(-0.0825)Met;0.762,0.792,0.740,0.754,0.715,0.826,0.694,0.747,(0.4557)+(0.0378)Ser+(-0.0071)Ala+(0.0159)Pro+(-0.2592)Met;0.762,0.787,0.751,0.735,0.749,0.794,0.771,0.762,(6.9199)+(-0.1249)His+(-0.0016)Arg+(-0.0138)Tyr+(0.0147)Leu;0.762,0.783,0.747,0.734,0.759,0.808,0.718,0.754,(6.6228)+(0.0042)Gly+(-0.1197)His+(-0.0340)Cit+(0.0036)Val;0.762,0.791,0.765,0.791,0.768,0.818,0.652,0.757,(1.6249)+(0.0429)Ser+(-0.0802)Asn+(-0.0076)Arg+(-0.1675)Met;0.762,0.785,0.761,0.756,0.765,0.817,0.726,0.766,(7.2836)+(-0.0219)Asn+(0.0043)Gly+(-0.1070)His+(-0.0318)Cit;0.762,0.780,0.691,0.674,0.623,0.795,0.800,0.723,(-0.6232)+(0.0259)Ser+(-0.0166)Thr+(-0.0521)Val+(0.1466)Ile;0.762,0.781,0.675,0.664,0.607,0.784,0.772,0.706,(-0.6765)+(0.0169)Ser+(-0.0447)Val+(0.1776)Ile+(-0.0373)Leu;0.762,0.790,0.777,0.789,0.769,0.814,0.740,0.778,(1.6757)+(0.0516)Ser+(-0.

0814)Asn+(-0.0066)Gly+(-0.1799)Met;0.762,0.784,0.730,0.747,0.674,0.771,0.774,0.741,(2.8324)+(-0.0031)Gly+(-0.0575)Tyr+(0.1563)Ile+(-0.0856)Leu;0.762,0.792,0.765,0.755,0.764,0.806,0.762,0.772,(7.1357)+(-0.1055)His+(-0.0008)Arg+(0.0082)Pro+(-0.0857)Met;0.762,0.790,0.765,0.745,0.769,0.800,0.783,0.774,(7.0407)+(-0.1179)His+(0.0008)Tyr+(-0.0878)Met+(0.0180)Leu;0.761,0.786,0.767,0.757,0.763,0.809,0.774,0.776,(7.3370)+(-0.0107)Asn+(-0.1147)His+(-0.0077)Tyr+(0.0020)Val;0.761,0.787,0.751,0.727,0.754,0.797,0.772,0.762,(6.6171)+(-0.1297)His+(-0.0044)Arg+(0.0022)Lys+(0.0116)Leu;0.761,0.785,0.737,0.757,0.697,0.786,0.734,0.744,(3.6308)+(-0.0255)Arg+(-0.0468)Tyr+(0.1664)Ile+(-0.0898)Leu;0.761,0.790,0.777,0.803,0.767,0.827,0.692,0.773,(0.5337)+(0.0399)Ser+(-0.0991)Asn+(0.0035)Gln+(-0.1860)Met;0.761,0.782,0.769,0.759,0.761,0.815,0.779,0.779,(7.1407)+(-0.1179)His+(-0.0026)Ala+(-0.0075)Arg+(0.0076)Lys;0.761,0.784,0.767,0.763,0.764,0.829,0.738,0.774,(7.2270)+(0.0037)Gly+(-0.1067)His+(-0.0023)Ala+(-0.0330)Cit;0.761,0.789,0.768,0.755,0.774,0.812,0.757,0.774,(7.3781)+(-0.1001)His+(-0.0251)Cit+(0.0083)Pro+(-0.0831)Met;0.761,0.789,0.768,0.766,0.772,0.827,0.723,0.772,(7.3129)+(0.0041)Gly+(-0.1035)His+(-0.0306)Cit+(-0.0519)Met;0.761,0.791,0.763,0.742,0.768,0.799,0.781,0.772,(6.8036)+(-0.1215)His+(-0.1048)Met+(0.0064)Lys+(0.0160)Leu;0.761,0.791,0.767,0.760,0.768,0.824,0.746,0.774,(6.9078)+(0.0036)Gly+(-0.1117)His+(0.0105)Tyr+(-0.0724)Met;0.761,0.783,0.774,0.760,0.774,0.824,0.776,0.784,(7.5247)+(-0.1097)His+(-0.0033)Ala+(-0.0309)Cit+(0.0045)Val;0.761,0.788,0.783,0.772,0.755,0.831,0.837,0.799,(3.0442)+(-0.0077)Ala+(-0.2050)Met+(-0.0087)Lys+(0.0703)Ile;0.761,0.792,0.753,0.769,0.758,0.803,0.664,0.749,(0.7770)+(0.0447)Ser+(-0.0826)Asn+(-0.2042)Met+(0.0085)Leu;0.761,0.786,0.770,0.760,0.768,0.812,0.773,0.778,(7.2505)+(0.0057)Asn+(-0.1130)His+(0.0032)Val+(-0.0623)Met;0.761,0.784,0.754,0.739,0.756,0.799,0.757,0.763,(6.8957)+(-0.1176)Hi

s+(-0.0053)Arg+(0.0057)Pro+(-0.0007)Val;0.761,0.785,0.757,0.752,0.756
,0.811,0.737,0.764,(6.9576)+(0.0030)Gly+(-0.1170)His+(-0.0048)Arg+(-0
.0026)Tyr;0.761,0.783,0.758,0.749,0.752,0.797,0.765,0.766,(6.8695)+(-
0.1221)His+(-0.0131)Tyr+(0.0014)Val+(0.0055)Lys;0.760,0.779,0.685,0.6
71,0.615,0.795,0.790,0.718,(-0.5985)+(0.0172)Ser+(-0.0062)Pro+(-0.055
5)Val+(0.1560)Ile;0.760,0.790,0.763,0.759,0.762,0.813,0.737,0.768,(6.
5630)+(0.0034)Gly+(-0.1165)His+(-0.0928)Met+(0.0101)Lys;0.760,0.786,0
.765,0.745,0.775,0.802,0.773,0.774,(7.3103)+(-0.1120)His+(-0.0257)Cit
+(-0.0827)Met+(0.0182)Leu;0.760,0.781,0.746,0.718,0.755,0.794,0.766,0
.758,(6.6230)+(-0.1237)His+(-0.0279)Cit+(0.0035)Pro+(0.0112)Leu;0.760
,0.788,0.776,0.769,0.769,0.817,0.781,0.784,(7.0917)+(-0.1125)His+(-0.
0015)Ala+(-0.0749)Met+(0.0098)Lys;0.760,0.790,0.764,0.787,0.762,0.818
,0.668,0.759,(1.4319)+(0.0426)Ser+(-0.0855)Asn+(-0.1762)Met+(-0.0000)
Lys;0.760,0.787,0.775,0.767,0.766,0.821,0.783,0.784,(7.4655)+(-0.1109
)His+(-0.0020)Ala+(-0.0026)Arg+(-0.0010)Tyr;0.760,0.785,0.753,0.744,0
.749,0.796,0.750,0.760,(7.1013)+(-0.1129)His+(-0.0044)Arg+(0.0070)Pro
+(-0.0154)Tyr;0.760,0.785,0.774,0.786,0.763,0.848,0.709,0.777,(3.0712
)+(0.0382)Ser+(-0.1184)Asn+(-0.0055)Ala+(-0.0699)Cit;0.760,0.785,0.76
7,0.754,0.766,0.810,0.773,0.776,(7.3169)+(-0.0112)Asn+(-0.1154)His+(-
0.0025)Arg+(0.0012)Val;0.760,0.784,0.764,0.757,0.759,0.797,0.770,0.77
1,(7.2073)+(-0.0218)Asn+(-0.1160)His+(-0.0114)Tyr+(0.0073)Lys;0.760,0
.781,0.755,0.748,0.760,0.814,0.722,0.761,(6.9746)+(0.0037)Gly+(-0.112
5)His+(-0.0310)Cit+(-0.0020)Tyr;0.760,0.777,0.706,0.692,0.641,0.785,0
.819,0.734,(2.4971)+(-0.0028)Gln+(-0.0040)Pro+(-0.0560)Val+(0.1596)Il
e;0.760,0.783,0.754,0.743,0.755,0.799,0.747,0.761,(7.2034)+(-0.1086)H
is+(-0.0260)Cit+(0.0070)Pro+(-0.0155)Tyr;0.760,0.787,0.726,0.702,0.69
0,0.835,0.785,0.753,(-0.6439)
+(0.0282)Ser+(-0.0152)Ala+(-0.1026)Cit+(0.0651)Ile;0.759,0.779,0.692,

0.673,0.630,0.768,0.819,0.722,(1.8815)+(-0.0039)Gln+(-0.0580)Val+(0.1531)Ile+(0.0258)Phe;0.759,0.776,0.699,0.690,0.635,0.777,0.801,0.726,(2.3236)+(-0.0025)Gln+(-0.0459)Val+(0.1782)Ile+(-0.0330)Leu;0.759,0.782,0.711,0.731,0.658,0.761,0.734,0.721,(1.9413)+(-0.0590)Tyr+(0.0094)Orn+(0.1534)Ile+(-0.0855)Leu;0.759,0.780,0.714,0.734,0.659,0.764,0.738,0.724,(2.0281)+(0.0003)Gln+(-0.0570)Tyr+(0.1556)Ile+(-0.0853)Leu;0.759,0.781,0.748,0.739,0.750,0.799,0.729,0.754,(6.5271)+(0.0033)Gly+(-0.1251)His+(-0.0097)Arg+(0.0067)Lys;0.759,0.787,0.779,0.773,0.771,0.822,0.781,0.787,(7.5766)+(-0.1061)His+(-0.0013)Ala+(-0.0005)Arg+(-0.0395)Met;0.759,0.775,0.710,0.701,0.639,0.786,0.824,0.737,(1.6438)+(-0.0027)Gly+(-0.0452)Val+(0.1772)Ile+(-0.0357)Leu;0.759,0.780,0.756,0.732,0.765,0.796,0.771,0.766,(7.0785)+(-0.0130)Asn+(-0.1196)His+(-0.0272)Cit+(0.0133)Leu;0.759,0.790,0.758,0.738,0.785,0.755,0.760,0.759,(1.0403)+(-0.0692)Cit+(-0.3147)Met+(0.0449)Ile+(0.0717)Phe;0.759,0.782,0.719,0.739,0.664,0.770,0.744,0.729,(2.1677)+(-0.0021)Pro+(-0.0550)Tyr+(0.1590)Ile+(-0.0857)Leu;0.759,0.787,0.781,0.772,0.774,0.823,0.787,0.789,(7.4835)+(-0.1070)His+(-0.0015)Ala+(0.0070)Tyr+(-0.0506)Met;0.759,0.782,0.753,0.733,0.759,0.793,0.764,0.762,(7.1118)+(-0.1195)His+(-0.0265)Cit+(-0.0133)Tyr+(0.0152)Leu;0.759,0.780,0.747,0.737,0.753,0.806,0.719,0.754,(6.5725)+(0.0037)Gly+(-0.1189)His+(-0.0309)Cit+(0.0041)Lys;0.759,0.782,0.759,0.740,0.765,0.805,0.761,0.768,(7.2524)+(-0.0178)Asn+(-0.1093)His+(-0.0266)Cit+(0.0057)Pro;0.759,0.794,0.701,0.675,0.714,0.778,0.683,0.713,(0.5628)+(0.0427)Ser+(-0.1579)Asn+(-0.0782)Cit+(0.0366)Ile;0.759,0.778,0.717,0.707,0.646,0.792,0.841,0.746,(1.6805)+(-0.0026)Gly+(-0.0048)Pro+(-0.0559)Val+(0.1566)Ile;0.759,0.775,0.703,0.686,0.640,0.781,0.825,0.733,(2.6066)+(-0.0014)Gly+(-0.0028)Gln+(-0.0562)Val+(0.1548)Ile;0.759,0.783,0.777,0.795,0.773,0.768,0.746,0.770,(0.7668)+(-0.0168)Val+(-0.2832)Met+(0.0267)Orn+(0.1072)Phe;0.758,0.786,0

.771,0.762,0.769,0.808,0.772,0.778,(7.0533)+(-0.0045)Asn+(-0.1136)His+(-0.0814)Met+(0.0097)Lys;0.758,0.781,0.780,0.771,0.778,0.825,0.776,0.787,(7.8812)+(-0.0108)Asn+(-0.1017)His+(-0.0022)Ala+(-0.0273)Cit;0.758,0.782,0.754,0.746,0.760,0.815,0.721,0.761,(6.9404)+(0.0038)Gly+(-0.1132)His+(-0.0307)Cit+(-0.0007)Arg;0.758,0.782,0.747,0.730,0.752,0.790,0.755,0.756,(6.6269)+(-0.1238)His+(-0.0084)Arg+(0.0050)Pro+(0.0051)Lys;0.758,0.779,0.749,0.728,0.756,0.795,0.754,0.758,(6.7185)+(-0.1185)His+(-0.0267)Cit+(0.0051)Pro+(0.0029)Lys;0.758,0.790,0.764,0.788,0.763,0.817,0.667,0.759,(1.4119)+(0.0426)Ser+(-0.0854)Asn+(0.0007)Tyr+(-0.1777)Met;0.758,0.790,0.768,0.766,0.764,0.820,0.742,0.773,(7.1432)+(0.0033)Gly+(-0.1095)His+(-0.0018)Arg+(-0.0519)Met;0.758,0.786,0.765,0.754,0.763,0.807,0.767,0.772,(7.2624)+(-0.1168)His+(-0.0029)Arg+(-0.0081)Tyr+(0.0023)Val;0.758,0.781,0.762,0.749,0.764,0.799,0.767,0.770,(7.1672)+(-0.0191)Asn+(-0.1186)His+(-0.0064)Arg+(0.0071)Lys;0.758,0.779,0.751,0.724,0.760,0.796,0.768,0.762,(6.7876)+(-0.1242)His+(-0.0273)Cit+(0.0006)Lys+(0.0131)Leu;0.758,0.781,0.667,0.649,0.599,0.776,0.782,0.701,(-1.4657)+(0.0167)Ser+(-0.0567)Val+(0.1446)Ile+(0.0179)Phe;0.757,0.779,0.707,0.699,0.634,0.785,0.829,0.736,(0.4305)+(-0.0063)Pro+(-0.0572)Val+(0.1548)Ile+(0.0222)Phe;0.757,0.776,0.695,0.689,0.622,0.773,0.808,0.723,(0.1152)+(-0.0448)Val+(0.1771)Ile+(-0.0419)Leu+(0.0276)Phe;0.757,0.780,0.752,0.732,0.759,0.801,0.756,0.762,(6.9320)+(-0.1149)His+(-0.0269)Cit+(0.0054)Pro+(0.0001)Val;0.757,0.780,0.751,0.724,0.759,0.797,0.770,0.763,(6.7590)+(-0.1243)His+(-0.0286)Cit+(0.0016)Arg+(0.0135)Leu;0.757,0.777,0.712,0.705,0.644,0.789,0.817,0.739,(1.6644)+(-0.0074)Thr+(-0.0426)Val+(0.1786)Ile+(-0.0387)Leu;0.757,0.775,0.707,0.693,0.635,0.780,0.843,0.738,(0.9229)+(-0.0030)Gly+(-0.0572)Val+(0.1484)Ile+(0.0168)Phe;0.757,0.785,0.756,0.769,0.751,0.816,0.691,0.757,(0.6013)+(0.0442)Ser+(-0.0078)Gly+(0.0102)Thr+(-0.2850)Met;0.757,0.783

,0.687,0.669,0.668,0.802,0.690,0.707,(-0.5977)+(0.0217)Ser+(-0.0933)C
it+(0.1583)Ile+(-0.0892)Leu;0.757,0.790,0.775,0.801,0.766,0.838,0.679
,0.771,(2.2706)+(0.0406)Ser+(-0.0912)Asn+(-0.0054)Val+(-0.1454)Met;0.
757,0.785,0.775,0.767,0.770,0.816,0.773,0.782,(7.4911)+(-0.0001)Asn+(
-0.1077)His+(-0.0005)Arg+(-0.0485)Met;0.756,0.787,0.729,0.733,0.718,0
.783,0.699,0.734,(0.0061)+(0.0499)Ser+(-0.0075)Gly+(0.0106)Pro+(-0.29
93)Met;0.756,0.779,0.772,0.760,0.768,0.818,0.775,0.781,(7.2767)+(-0.1
111)His+(-0.0029)Ala+(-0.0277)Cit+(0.0057)Lys;0.756,0.782,0.774,0.781
,0.759,0.762,0.793,0.774,(0.8967)+(-0.0085)Ala+(0.0128)Pro+(-0.2839)M
et+(0.0889)Phe;0.756,0.775,0.713,0.702,0.642,0.788,0.839,0.743,(1.738
8)+(-0.0022)Gly+(-0.0047)Thr+(-0.0552)Val+(0.1503)Ile;0.756,0.791,0.6
83,0.664,0.650,0.792,0.724,0.708,(-0.6640)+(0.0270)Ser+(-0.0221)Lys+(
0.1416)Ile+(-0.0742)Leu;0.756,0.779,0.767,0.752,0.773,0.808,0.763,0.7
74,(7.4818)+(-0.0121)Asn+(-0.1109)His+(-0.0266)Cit+(0.0019)Val;0.756,
0.781,0.781,0.775,0.779,0.826,0.771,0.788,(7.8672)+(-0.0999)His+(-0.0
017)Ala+(-0.0261)Cit+(-0.0342)Met;0.756,0.784,0.770,0.762,0.766,0.811
,0.773,0.778,(7.5109)+(-0.0113)Asn+(-0.1111)His+(-0.0021)Arg+(-0.0048
)Tyr;0.756,0.780,0.758,0.744,0.759,0.801,0.761,0.766,(6.9372)+(-0.122
4)His+(-0.0077)Arg+(-0.0001)Val+(0.0063)Lys;0.756,0.787,0.772,0.761,0
.770,0.812,0.773,0.779,(7.3360)+(-0.1117)His+(-0.0001)Arg+(0.0029)Val
+(-0.0570)Met;0.756,0.779,0.758,0.751,0.754,0.794,0.756,0.764,(7.1308
)+(-0.1194)His+(-0.0078)Arg+(-0.0121)Tyr+(0.0080)Lys;0.756,0.780,0.75
7,0.771,0.758,0.752,0.723,0.751,(-0.0353)+(0.0237)Thr+(-0.0057)Ala+(-
0.3468)Met+(0.0982)Phe;0.756,0.777,0.762,0.750,0.767,0.803,0.754,0.76
9,(7.3951)+(-0.1126)His+(-0.0266)Cit+(-0.0084)Tyr+(0.0030)Val;0.756,0
.786,0.769,0.759,0.769,0.806,0.773,0.777,(6.9606)+(-0.1158)His+(0.001
4)Val+(-0.0864)Met+(0.0091)Lys;0.755,0.777,0.716,0.708,0.645,0.794,0.
828,0.744,(1.5157)+(-0.0049)Thr+(-0.0046)Pro+(-0.0548)Val+(0.1555)Ile

;0.755,0.787,0.772,0.760,0.771,0.812,0.775,0.780,(7.3105)+(-0.1118)His+(0.0023)Tyr+(0.0028)Val+(-0.0606)Met;0.755,0.774,0.702,0.685,0.639,0.782,0.817,0.731,(2.5332)+(-0.0028)Gln+(-0.0029)Thr+(-0.0556)Val+(0.1545)Ile;0.755,0.781,0.772,0.761,0.779,0.811,0.759,0.777,(7.5898)+(-0.1066)His+(-0.0263)Cit+(0.0035)Val+(-0.0547)Met;0.755,0.785,0.775,0.765,0.772,0.818,0.776,0.783,(7.3948)+(0.0010)Asn+(-0.1087)His+(0.0050)Tyr+(-0.0584)Met;0.755,0.783,0.769,0.782,0.776,0.841,0.668,0.766,(2.0931)+(0.0354)Ser+(-0.0034)Ala+(-0.0684)Cit+(-0.1912)Met;0.755,0.777,0.686,0.664,0.629,0.775,0.801,0.717,(2.4500)+(-0.0041)Gln+(-0.0574)Val+(0.0167)Orn+(0.1536)Ile;0.755,0.779,0.776,0.767,0.773,0.826,0.773,0.785,(7.6735)+(-0.1049)His+(-0.0024)Ala+(-0.0276)Cit+(0.0007)Tyr;0.755,0.775,0.704,0.687,0.634,0.784,0.835,0.735,(1.3297)+(-0.0037)Gly+(-0.0570)Val+(0.0121)Orn+(0.1486)Ile;0.755,0.779,0.766,0.770,0.720,0.814,0.816,0.780,(2.0790)+(-0.1229)Asn+(0.0042)Gln+(0.1409)Ile+(-0.0829)Leu;0.754,0.780,0.776,0.767,0.772,0.826,0.775,0.785,(7.6186)+(-0.1051)His+(-0.0024)Ala+(-0.0290)Cit+(0.0019)Arg;0.754,0.780,0.724,0.739,0.676,0.773,0.750,0.735,(2.7964)+(-0.0508)Tyr+(-0.0080)Lys+(0.1539)Ile+(-0.0804)Leu;0.754,0.779,0.767,0.788,0.760,0.737,0.750,0.759,(1.1628)+(0.0110)Pro+(-0.0166)Val+(-0.3120)Met+(0.1117)Phe;0.754,0.777,0.759,0.749,0.762,0.799,0.752,0.765,(7.1734)+(-0.1145)His+(-0.0246)Cit+(-0.0107)Tyr+(0.0057)Lys;0.754,0.780,0.782,0.781,0.745,0.825,0.834,0.796,(0.8879)+(0.0039)Gln+(-0.0080)Ala+(-0.2581)Met+(0.0651)Ile;0.754,0.780,0.776,0.767,0.779,0.817,0.761,0.781,(7.7542)+(-0.0010)Asn+(-0.1022)His+(-0.0246)Cit+(-0.0451)Met;0.754,0.780,0.752,0.732,0.761,0.802,0.754,0.762,(6.9777)+(-0.1144)His+(-0.0259)Cit+(-0.0012)Arg+(0.0055)Pro;0.754,0.781,0.725,0.743,0.670,0.772,0.758,0.736,(2.4269)+(-0.0057)Thr+(-0.0516)Tyr+(0.1585)Ile+(-0.0863)Leu;0.754,0.787,0.770,0.761,0.769,0.807,0.771,0.777,(6.9852)+(-0.1143)His+(0.0013)Tyr+(-0.0866)Met+(0.009

5)Lys;0.754,0.776,0.707,0.696,0.634,0.779,0.835,0.736,(0.7492)+(-0.00
71)Thr+(-0.0559)Val+(0.1470)Ile+(0.0196)Phe;0.753,0.777,0.764,0.749,0
.769,0.800,0.764,0.771,(7.3284)+(-0.0219)Asn+(-0.1125)His+(-0.0253)Ci
t+(0.0056)Lys;0.753,0.779,0.771,0.761,0.772,0.811,0.763,0.777,(7.7190
)+(-0.0127)Asn+(-0.1057)His+(-0.0252)Cit+(-0.0041)Tyr;0.753,0.776,0.7
02,0.691,0.632,0.789,0.813,0.731,(0.8949)+(-0.0063)Pro+(-0.0566)Val+(
0.0122)Orn+(0.1555)Ile;0.753,0.777,0.757,0.740,0.764,0.800,0.757,0.76
5,(6.9844)+(-0.1186)His+(-0.0263)Cit+(0.0013)Val+(0.0036)Lys;0.753,0.
778,0.770,0.757,0.773,0.812,0.766,0.777,(7.5884)+(-0.0154)Asn+(-0.107
4)His+(-0.0271)Cit+(0.0020)Arg;0.753,0.775,0.694,0.686,0.626,0.779,0.
795,0.722,(0.9043)+(-0.0455)Val+(0.0074)Orn+(0.1754)Ile+(-0.0360)Leu;
0.753,0.784,0.751,0.759,0.740,0.809,0.708,0.754,(0.1349)+(0.0461)Ser+
(-0.0078)Gly+(-0.2682)Met+(0.0187)Orn;0.753,0.780,0.693,0.701,0.661,0
.759,0.688,0.702,(0.3573)+(0.0416)Ser+(-0.1448)Asn+(-0.0480)Tyr+(0.04
26)Ile;0.753,0.785,0.744,0.768,0.744,0.803,0.637,0.738,(2.9499)+(0.03
88)Ser+(-0.1244)Asn+(-0.0656)Cit+(-0.0256)Tyr;0.753,0.778,0.669,0.651
,0.602,0.780,0.777,0.703,(-0.8224)+(0.0161)Ser+(-0.0558)Val+(0.0028)O
rn+(0.1469)Ile;0.753,0.778,0.765,0.760,0.737,0.811,0.805,0.778,(1.980
2)+(0.0025)Gly+(-0.0080)Ala+(-0.2385)Met+(0.0679)Ile;0.753,0.781,0.77
5,0.789,0.751,0.836,0.746,0.781,(0.8884)+(0.0451)Ser+(-0.0070)Gly+(-0
.0025)Ala+(-0.2245)Met;0.753,0.785,0.706,0.687,0.645,0.829,0.796,0.73
9,(-0.8941)+(0.0339)Ser+(-0.0114)Ala+(-0.0262)Lys+(0.0668)Ile;0.752,0
.780,0.786,0.770,0.759,0.841,0.843,0.803,(3.9311)+(-0.0652)Asn+(-0.01
17)Ala+(-0.0825)Cit+(0.0578)Ile;0.752,0.782,0.772,0.762,0.776,0.811,0
.763,0.778,(7.2747)+(-0.1086)His+(-0.0236)Cit+(-0.0807)Met+(0.0093)Ly
s;0.752,0.778,0.761,0.744,0.768,0.805,0.758,0.769,(7.2043)+(-0.1154)H
is+(-0.0274)Cit+(0.0006)Arg+(0.0022)Val;0.752,0.778,0.770,0.760,0.742
,0.814,0.823,0.785,(2.2113)+(-0.0081)Ala+(-0.2338)Met+(0.0092)Orn+(0.

0627)Ile;0.752,0.780,0.759,0.755,0.757,0.745,0.782,0.760,(-1.6520)+(0.0042)Gln+(-0.3779)Met+(0.0417)Ile+(0.0689)Phe;0.752,0.780,0.753,0.747,0.729,0.808,0.782,0.766,(1.8628)+(0.0180)Thr+(-0.0081)Ala+(-0.2924)Met+(0.0660)Ile;0.752,0.783,0.751,0.774,0.735,0.840,0.658,0.752,(0.3073)+(0.0335)Ser+(-0.0037)Ala+(-0.2355)Met+(0.0196)Orn;0.751,0.784,0.769,0.760,0.771,0.805,0.766,0.775,(7.1579)+(-0.1138)His+(-0.0056)Arg+(-0.0806)Met+(0.0107)Lys;0.751,0.778,0.777,0.769,0.750,0.813,0.831,0.791,(2.6477)+(-0.0127)Asn+(-0.0079)Ala+(-0.2164)Met+(0.0647)Ile;0.751,0.780,0.752,0.780,0.743,0.847,0.630,0.750,(0.6941)+(0.0325)Ser+(0.0091)Thr+(-0.0031)Ala+(-0.2541)Met;0.751,0.776,0.746,0.749,0.705,0.798,0.788,0.760,(2.9953)+(-0.1016)Asn+(0.0019)Gly+(0.1430)Ile+(-0.0825)Leu;0.751,0.782,0.763,0.768,0.773,0.818,0.689,0.762,(1.7442)+(0.0446)Ser+(-0.0057)Gly+(-0.0604)Cit+(-0.2271)Met;0.751,0.781,0.747,0.751,0.738,0.795,0.718,0.751,(-0.1244)+(0.0489)Ser+(-0.0071)Gly+(-0.2780)Met+(0.0095)Leu;0.751,0.784,0.733,0.715,0.764,0.774,0.687,0.735,(2.4895)+(0.0249)Thr+(-0.0810)Cit+(-0.3365)Met+(0.0574)Ile;0.751,0.779,0.734,0.727,0.745,0.734,0.733,0.734,(-0.6065)+(0.0034)Gly+(-0.3610)Met+(0.0439)Ile+(0.0713)Phe;0.751,0.779,0.772,0.769,0.754,0.833,0.773,0.782,(3.4666)+(-0.0418)Val+(-0.2434)Met+(0.0348)Orn+(0.0650)Leu;0.751,0.785,0.775,0.766,0.773,0.817,0.776,0.783,(7.4269)+(-0.1084)His+(-0.0005)Arg+(0.0049)Tyr+(-0.0567)Met;0.751,0.773,0.690,0.675,0.620,0.775,0.809,0.720,(0.2044)+(-0.0573)Val+(0.0070)Orn+(0.1457)Ile+(0.0150)Phe;0.750,0.781,0.776,0.767,0.779,0.817,0.765,0.782,(7.6315)+(-0.1026)His+(-0.0274)Cit+(0.0038)Arg+(-0.0509)Met;0.750,0.781,0.761,0.777,0.775,0.827,0.639,0.754,(0.8373)+(0.0339)Ser+(0.0028)Gln+(-0.0724)Cit+(-0.2407)Met;0.750,0.772,0.795,0.816,0.789,0.759,0.777,0.785,(2.3204)+(-0.0539)Asn+(-0.0149)Val+(-0.2169)Met+(0.1116)Phe;0.750,0.774,0.785,0.772,0.796,0.844,0.756,0.792,(4.9949)+(

-0.0813)Asn+(-0.0090)Ala+(-0.1143)Cit+(0.0579)Orn;0.750,0.776,0.757,0.742,0.764,0.799,0.754,0.764,(7.0866)+(-0.1174)His+(-0.0228)Cit+(-0.0035)Arg+(0.0051)Lys;0.750,0.781,0.733,0.736,0.758,0.802,0.623,0.730,(0.8113)+(0.0401)Ser+(-0.0707)Cit+(-0.2619)Met+(0.0126)Leu;0.750,0.779,0.708,0.726,0.709,0.783,0.603,0.705,(-0.2678)+(0.0379)Ser+(0.0050)Thr+(0.0100)Pro+(-0.3171)Met;0.750,0.777,0.728,0.743,0.718,0.760,0.686,0.727,(-0.6128)+(0.0436)Ser+(-0.1878)Asn+(-0.0192)Leu+(0.0733)Phe;0.750,0.778,0.766,0.756,0.767,0.809,0.757,0.772,(7.4719)+(-0.1093)His+(-0.0259)Cit+(0.0008)Arg+(-0.0053)Tyr;0.750,0.774,0.797,0.826,0.785,0.762,0.769,0.786,(-0.6752)+(0.0048)Gln+(-0.0141)Val+(-0.3119)Met+(0.1123)Phe;0.750,0.779,0.749,0.763,0.770,0.827,0.615,0.744,(1.7657)+(0.0370)Ser+(-0.0669)Cit+(-0.2157)Met+(-0.0022)Lys;0.750,0.774,0.745,0.719,0.777,0.788,0.716,0.750,(2.7075)+(-0.0914)Cit+(-0.2557)Met+(0.0313)Orn+(0.0459)Ile;0.750,0.781,0.775,0.765,0.781,0.817,0.762,0.781,(7.6733)+(-0.1031)His+(-0.0249)Cit+(0.0057)Tyr+(-0.0553)Met;0.749,0.779,0.749,0.746,0.712,0.800,0.800,0.764,(3.0696)+(-0.1022)Asn+(0.0119)Orn+(0.1392)Ile+(-0.0832)Leu;0.749,0.776,0.759,0.759,0.715,0.809,0.813,0.774,(3.2784)+(-0.0924)Asn+(-0.0038)Pro+(0.1489)Ile+(-0.0837)Leu;0.749,0.779,0.750,0.764,0.770,0.826,0.619,0.745,(1.7211)+(0.0365)Ser+(-0.0663)Cit+(-0.0009)Val+(-0.2220)Met;0.749,0.778,0.777,0.771,0.752,0.814,0.823,0.790,(2.6679)+(-0.0079)Ala+(-0.0063)Arg+(-0.2193)Met+(0.0657)Ile;0.749,0.779,0.779,0.758,0.753,0.850,0.835,0.799,(3.6935)+(-0.0121)Ala+(-0.0878)Cit+(-0.0161)Lys+(0.0701)Ile;0.749,0.778,0.745,0.734,0.753,0.728,0.768,0.746,(0.0013)+(0.0031)Pro+(-0.3537)Met+(0.0386)Ile+(0.0683)Phe;0.749,0.777,0.764,0.794,0.742,0.847,0.669,0.763,(0.2915)+(0.0338)Ser+(0.0012)Gln+(-0.0030)Ala+(-0.2303)Met;0.749,0.779,0.749,0.763,0.771,0.823,0.615,0.743,(1.6672)+(0.0371)Ser+(-0.0655)Cit+(-0.0023)Arg+(-0.2225)Met;0.749,0.776,0.761,0.766,0.772,0.733,0.747,0.754,(0.87

84)+(0.0073)Pro+(-0.3090)Met+(-0.0078)Lys+(0.0897)Phe;0.749,0.776,0.755,0.745,0.763,0.738,0.775,0.756,(0.4885)+(-0.0203)Asn+(-0.3206)Met+(0.0401)Ile+(0.0669)Phe;0.749,0.769,0.749,0.720,0.736,0.830,0.792,0.769,(1.9101)+(-0.0153)Ala+(-0.1253)Cit+(0.0404)Orn+(0.0491)Ile;0.749,0.774,0.703,0.689,0.635,0.789,0.819,0.733,(1.1781)+(-0.0085)Thr+(-0.0552)Val+(0.0138)Orn+(0.1468)Ile;0.748,0.782,0.718,0.736,0.732,0.787,0.591,0.712,(-0.4763)+(0.0368)Ser+(0.0085)Thr+(-0.3127)Met+(0.0104)Leu;0.748,0.779,0.690,0.680,0.630,0.788,0.775,0.718,(-1.5717)+(0.0339)Ser+(-0.0280)Thr+(0.1645)Ile+(-0.0930)Leu;0.748,0.776,0.716,0.708,0.730,0.708,0.709,0.714,(-0.8704)+(0.0213)Thr+(-0.4221)Met+(0.0414)Ile+(0.0740)Phe;0.748,0.779,0.762,0.792,0.754,0.842,0.644,0.758,(1.0525)+(0.0363)Ser+(-0.0027)Ala+(-0.0115)Arg+(-0.2050)Met;0.748,0.781,0.750,0.759,0.775,0.822,0.625,0.745,(1.4183)+(0.0377)Ser+(-0.0682)Cit+(0.0088)Tyr+(-0.2430)Met;0.748,0.781,0.737,0.739,0.700,0.825,0.744,0.752,(2.8090)+(0.0415)Ser+(-0.1762)Asn+(-0.0446)Val+(0.0678)Leu;0.748,0.781,0.745,0.776,0.746,0.839,0.594,0.739,(0.8923)+(0.0317)Ser+(0.0097)Thr+(-0.0044)Val+(-0.2652)Met;0.748,0.778,0.761,0.785,0.748,0.846,0.668,0.762,(0.4578)+(0.0359)Ser+(-0.0031)Ala+(0.0086)Tyr+(-0.2380)Met;0.748,0.771,0.777,0.802,0.775,0.751,0.736,0.766,(0.7045)+(0.0025)Gly+(-0.0139)Val+(-0.2851)Met+(0.1151)Phe;0.747,0.780,0.745,0.761,0.729,0.821,0.683,0.748,(-0.1487)+(0.0382)Ser+(-0.0039)Ala+(-0.2537)Met+(0.0134)Leu;0.747,0.781,0.734,0.764,0.756,0.813,0.555,0.722,(0.8975)+(0.0341)Ser+(0.0130)Thr+(-0.0167)Arg+(-0.2690)Met;0.747,0.776,0.703,0.714,0.703,0.776,0.620,0.703,(-0.6225)+(0.0406)Ser+(0.0097)Pro+(-0.3142)Met+(0.0054)Leu;0.747,0.780,0.733,0.759,0.741,0.817,0.589,0.726,(0.2142)+(0.0342)Ser+(0.0082)Thr+(0.0018)Tyr+(-0.2844)Met;0.747,0.778,0.754,0.751,0.713,0.805,0.810,0.770,(3.4161)+(-0.0871)Asn+(-0.0046)Lys+(0.1423)Ile+(-0.0804)Leu;0.747,0.779,0.770,0.786,0.750,0.830,0.722,0.772,(1.0980)

+(0.0451)Ser+(-0.0075)Gly+(-0.0038)Val+(-0.2307)Met;0.747,0.779,0.735,0.765,0.740,0.817,0.589,0.728,(0.0437)+(0.0333)Ser+(0.0007)Gln+(0.0080)Thr+(-0.2844)Met;0.747,0.772,0.765,0.770,0.777,0.753,0.737,0.760,(0.8450)+(-0.2817)Met+(0.0192)Orn+(-0.0101)Lys+(0.0852)Phe;0.747,0.774,0.740,0.755,0.757,0.707,0.684,0.726,(0.5514)+(-0.0540)Asn+(0.0249)Thr+(-0.3392)Met+(0.0908)Phe;0.747,0.780,0.768,0.783,0.749,0.819,0.729,0.770,(0.0329)+(0.0451)Ser+(-0.0077)Gly+(0.0018)Gln+(-0.2595)Met;0.746,0.776,0.759,0.787,0.742,0.847,0.660,0.759,(0.7879)+(0.0353)Ser+(-0.0028)Ala+(-0.2146)Met+(-0.0021)Lys;0.746,0.770,0.760,0.739,0.777,0.792,0.758,0.766,(3.6371)+(-0.0647)Cit+(-0.2229)Met+(-0.0090)Lys+(0.0602)Ile;0.746,0.779,0.714,0.733,0.721,0.790,0.597,0.710,(0.2471)+(0.0410)Ser+(-0.0150)Arg+(0.0110)Pro+(-0.2793)Met;0.746,0.777,0.762,0.790,0.746,0.852,0.660,0.762,(0.9263)+(0.0344)Ser+(-0.0025)Ala+(-0.0023)Val+(-0.2158)Met;0.746,0.777,0.767,0.791,0.742,0.842,0.704,0.770,(1.9971)+(0.0388)Ser+(-0.1232)Asn+(-0.0052)Ala+(-0.0119)Arg;0.746,0.772,0.793,0.816,0.779,0.771,0.779,0.786,(1.2970)+(-0.0029)Ala+(-0.0122)Val+(-0.2542)Met+(0.1115)Phe;0.746,0.777,0.756,0.748,0.766,0.742,0.765,0.755,(0.4729)+(-0.0096)Arg+(-0.3281)Met+(0.0419)Ile+(0.0678)Phe;0.745,0.775,0.759,0.791,0.721,0.832,0.703,0.761,(2.2355)+(0.0373)Ser+(-0.1262)Asn+(-0.0043)Ala+(-0.0200)Tyr;0.745,0.776,0.763,0.776,0.746,0.820,0.721,0.766,(0.7997)+(0.0469)Ser+(-0.0074)Gly+(-0.2337)Met+(-0.0033)Lys;0.745,0.776,0.747,0.736,0.756,0.733,0.768,0.748,(0.0375)+(-0.3444)Met+(0.0011)Orn+(0.0417)Ile+(0.0668)Phe;0.745,0.778,0.708,0.710,0.704,0.768,0.672,0.713,(-0.7934)+(0.0473)Ser+(-0.1620)Asn+(-0.0156)Lys+(0.0629)Phe;0.745,0.778,0.733,0.760,0.741,0.821,0.582,0.726,(0.5724)+(0.0338)Ser+(0.0097)Thr+(-0.2659)Met+(-0.0043)Lys;0.745,0.772,0.786,0.803,0.785,0.757,0.763,0.777,(-0.8574)+(0.0052)Gln+(-0.3138)Met+(-0.0092)Lys+(0.0922)Phe;0.745,0.767,0.728,0.723,0.696,0.808,0.749,0.744,(1.976

0)+(-0.0848)Cit+(-0.0064)Pro+(0.1670)Ile+(-0.0905)Leu;0.745,0.779,0.722,0.744,0.714,0.806,0.618,0.721,(0.7390)+(0.0369)Ser+(0.0128)Pro+(-0.0081)Val+(-0.2761)Met;0.745,0.774,0.768,0.759,0.775,0.791,0.759,0.771,(0.9113)+(0.0060)Gln+(-0.0799)Cit+(-0.2923)Met+(0.0561)Ile;0.745,0.775,0.763,0.779,0.754,0.812,0.701,0.762,(1.0164)+(0.0476)Ser+(-0.0073)Gly+(-0.0117)Arg+(-0.2300)Met;0.745,0.774,0.709,0.725,0.707,0.784,0.613,0.707,(-0.3609)+(0.0391)Ser+(0.0003)Gln+(0.0103)Pro+(-0.3029)Met;0.745,0.778,0.760,0.774,0.745,0.814,0.716,0.762,(0.6046)+(0.0466)Ser+(-0.0074)Gly+(-0.0016)Tyr+(-0.2460)Met;0.744,0.773,0.775,0.802,0.739,0.854,0.718,0.778,(2.7596)+(0.0367)Ser+(-0.1341)Asn+(-0.0035)Ala+(-0.0080)Val;0.744,0.774,0.753,0.753,0.711,0.800,0.806,0.767,(3.2218)+(-0.0936)Asn+(-0.0010)Thr+(0.1430)Ile+(-0.0830)Leu;0.744,0.767,0.737,0.759,0.746,0.706,0.683,0.724,(-1.6784)+(0.0033)Gln+(0.0202)Thr+(-0.4065)Met+(0.0935)Phe;0.744,0.769,0.794,0.815,0.775,0.773,0.793,0.789,(-0.8882)+(0.0045)Gln+(-0.0052)Ala+(-0.2949)Met+(0.0913)Phe;0.744,0.774,0.770,0.765,0.739,0.810,0.821,0.784,(2.4903)+(-0.0078)Ala+(-0.0062)Tyr+(-0.2205)Met+(0.0661)Ile;0.744,0.768,0.789,0.800,0.781,0.776,0.783,0.785,(1.2424)+(-0.0049)Ala+(-0.2464)Met+(-0.0054)Lys+(0.0938)Phe;0.744,0.768,0.733,0.743,0.755,0.721,0.671,0.723,(0.2458)+(0.0257)Thr+(-0.3608)Met+(-0.0116)Lys+(0.1004)Phe;0.744,0.775,0.706,0.724,0.704,0.779,0.608,0.704,(-0.1571)+(0.0390)Ser+(0.0106)Pro+(-0.0050)Tyr+(-0.2930)Met;0.744,0.772,0.758,0.763,0.728,0.807,0.776,0.768,(3.8066)+(-0.0676)Asn+(-0.0214)Arg+(0.1522)Ile+(-0.0873)Leu;0.744,0.777,0.705,0.721,0.704,0.785,0.606,0.704,(-0.4724)+(0.0384)Ser+(0.0096)Pro+(-0.3072)Met+(0.0100)Orn;0.744,0.774,0.754,0.767,0.723,0.838,0.723,0.763,(1.4378)+(0.0370)Ser+(-0.1464)Asn+(-0.0065)Ala+(0.0202)Orn;0.744,0.771,0.758,0.776,0.757,0.719,0.740,0.748,(-1.3595)+(0.0042)Gln+(0.0065)Pro+(-0.3636)Met+(0.0863)Phe;0.744,0.778,0.732,0.753,0.743,0.814,0.594,0.726,(0

.3929)+(0.0361)Ser+(-0.0160)Arg+(-0.2453)Met+(0.0206)Orn;0.744,0.767,0.792,0.812,0.790,0.748,0.778,0.782,(-0.6950)+(-0.0620)Asn+(0.0062)Gln+(-0.2871)Met+(0.0843)Phe;0.743,0.780,0.741,0.766,0.737,0.837,0.618,0.739,(0.6666)+(0.0320)Ser+(-0.0067)Val+(-0.2431)Met+(0.0227)Orn;0.743,0.774,0.767,0.760,0.754,0.798,0.788,0.775,(0.9628)+(0.0048)Gln+(-0.2796)Met+(-0.0125)Lys+(0.0594)Ile;0.743,0.769,0.783,0.805,0.779,0.748,0.757,0.772,(1.1201)+(-0.0139)Val+(-0.2769)Met+(0.0005)Lys+(0.1120)Phe;0.743,0.773,0.740,0.750,0.695,0.833,0.743,0.755,(1.5282)+(0.0384)Ser+(-0.1411)Asn+(-0.0091)Ala+(0.0114)Pro;0.743,0.770,0.717,0.730,0.734,0.691,0.665,0.705,(-0.5729)+(0.0209)Thr+(0.0059)Pro+(-0.4063)Met+(0.0924)Phe;0.743,0.778,0.719,0.734,0.724,0.794,0.614,0.717,(-0.6005)+(0.0376)Ser+(-0.2883)Met+(0.0131)Orn+(0.0077)Leu;0.743,0.773,0.709,0.724,0.710,0.784,0.611,0.707,(0.0163)+(0.0395)Ser+(0.0105)Pro+(-0.2838)Met+(-0.0040)Lys;0.743,0.765,0.753,0.728,0.720,0.827,0.834,0.777,(2.1333)+(-0.0158)Ala+(-0.0963)Cit+(0.0077)Pro+(0.0540)Ile;0.743,0.769,0.753,0.763,0.769,0.790,0.667,0.747,(4.9710)+(-0.0880)Asn+(-0.1019)Cit+(-0.0445)Tyr+(0.0544)Orn;0.74

2,0.770,0.733,0.756,0.753,0.700,0.657,0.716,(-0.2876)+(0.0225)Thr+(-0.3733)Met+(-0.0095)Leu+(0.1026)Phe;0.742,0.772,0.743,0.753,0.755,0.815,0.641,0.741,(2.6735)+(0.0400)Ser+(-0.1224)Asn+(-0.0681)Cit+(-0.0079)Lys;0.742,0.772,0.717,0.718,0.732,0.783,0.637,0.718,(1.8464)+(0.0402)Ser+(-0.1482)Asn+(-0.0725)Cit+(0.0044)Pro;0.742,0.774,0.725,0.744,0.728,0.789,0.624,0.721,(-0.6533)+(0.0383)Ser+(0.0007)Gln+(-0.2863)Met+(0.0101)Leu;0.742,0.780,0.726,0.749,0.732,0.811,0.594,0.722,(-0.0796)+(0.0340)Ser+(0.0050)Thr+(-0.2834)Met+(0.0142)Orn;0.742,0.773,0.766,0.787,0.732,0.848,0.721,0.772,(2.0193)+(0.0385)Ser+(-0.1238)Asn+(-0.0050)Ala+(-0.0057)Lys;0.742,0.770,0.776,0.784,0.768,0.775,0.774,0.775,(0.5947)+(-0.0058)Ala+(-0.2657)Met+(0.0168)Orn+(0.0851)Phe;0.742,0.772

,0.750,0.770,0.733,0.833,0.672,0.752,(2.6284)+(0.0347)Ser+(-0.1596)As
n+(-0.0145)Val+(0.0299)Orn;0.742,0.772,0.710,0.700,0.667,0.767,0.784,
0.729,(0.4310)+(-0.0172)Lys+(0.1432)Ile+(-0.0866)Leu+(0.0385)Phe;0.74
2,0.773,0.733,0.719,0.710,0.818,0.752,0.750,(2.9093)+(-0.0809)Cit+(-0
.0118)Lys+(0.1547)Ile+(-0.0815)Leu;0.742,0.766,0.776,0.794,0.766,0.76
7,0.756,0.771,(0.3898)+(0.0026)Gly+(-0.0052)Ala+(-0.2714)Met+(0.0946)
Phe;0.742,0.768,0.774,0.775,0.789,0.829,0.697,0.773,(5.6127)+(-0.1088
)Asn+(-0.0969)Cit+(-0.0149)Val+(0.0616)Orn;0.741,0.767,0.773,0.758,0.
787,0.852,0.723,0.780,(4.3328)+(-0.0096)Ala+(-0.1229)Cit+(0.0645)Orn+
(-0.0148)Lys;0.741,0.771,0.753,0.772,0.749,0.824,0.659,0.751,(3.2476)
+(0.0381)Ser+(-0.1344)Asn+(-0.0598)Cit+(-0.0076)Val;0.741,0.773,0.750
,0.765,0.748,0.804,0.672,0.747,(1.1245)+(0.0365)Ser+(-0.1649)Asn+(0.0
045)Gln+(-0.0781)Cit;0.741,0.768,0.785,0.808,0.785,0.753,0.750,0.774,
(1.4864)+(-0.0077)Arg+(-0.0135)Val+(-0.2634)Met+(0.1121)Phe;0.741,0.7
65,0.721,0.740,0.740,0.696,0.650,0.707,(-0.6470)+(0.0013)Gly+(0.0218)
Thr+(-0.3917)Met+(0.0950)Phe;0.741,0.771,0.763,0.762,0.722,0.822,0.81
0,0.779,(3.1182)+(-0.0117)Ala+(-0.0856)Cit+(-0.0342)Tyr+(0.0628)Ile;0
.741,0.775,0.728,0.749,0.730,0.810,0.611,0.725,(-0.1647)+(0.0351)Ser+
(0.0001)Gln+(-0.2689)Met+(0.0162)Orn;0.741,0.769,0.737,0.725,0.741,0.
837,0.690,0.748,(0.9470)+(0.0210)Ser+(-0.0118)Ala+(-0.1248)Cit+(0.048
3)Orn;0.741,0.768,0.724,0.710,0.728,0.770,0.717,0.731,(2.1859)+(0.020
5)Thr+(-0.3106)Met+(-0.0133)Lys+(0.0606)Ile;0.741,0.770,0.746,0.731,0
.745,0.782,0.762,0.755,(2.4646)+(-0.2512)Met+(0.0140)Orn+(-0.0122)Lys
+(0.0549)Ile;0.741,0.776,0.723,0.739,0.729,0.792,0.621,0.720,(-0.5189
)+(0.0393)Ser+(0.0022)Tyr+(-0.2871)Met+(0.0103)Leu;0.741,0.768,0.778,
0.808,0.767,0.744,0.748,0.767,(1.3527)+(-0.0209)Tyr+(-0.0132)Val+(-0.
2467)Met+(0.1172)Phe;0.740,0.766,0.757,0.740,0.774,0.777,0.754,0.761,
(3.3236)+(-0.0150)Asn+(-0.0662)Cit+(-0.2349)Met+(0.0538)Ile;0.740,0.7

70,0.735,0.746,0.743,0.799,0.640,0.732,(2.2810)+(0.0393)Ser+(-0.1405)Asn+(-0.0693)Cit+(-0.0017)Leu;0.740,0.770,0.711,0.705,0.657,0.825,0.758,0.736,(-1.5358)+(0.0301)Ser+(-0.0127)Ala+(-0.0287)Arg+(0.0528)Ile;0.740,0.774,0.712,0.721,0.715,0.756,0.652,0.711,(-0.9422)+(0.0467)Ser+(-0.1721)Asn+(-0.0209)Arg+(0.0560)Phe;0.740,0.770,0.738,0.752,0.749,0.712,0.700,0.728,(-0.2124)+(0.0028)Gly+(0.0072)Pro+(-0.3456)Met+(0.0893)Phe;0.740,0.766,0.755,0.743,0.752,0.780,0.774,0.762,(2.7953)+(-0.0100)Asn+(-0.2415)Met+(-0.0095)Lys+(0.0573)Ile;0.740,0.764,0.762,0.775,0.774,0.742,0.717,0.752,(0.5315)+(0.0025)Gly+(-0.2918)Met+(-0.0070)Lys+(0.0940)Phe;0.740,0.777,0.728,0.748,0.738,0.794,0.606,0.722,(0.0143)+(0.0398)Ser+(-0.0117)Arg+(-0.2614)Met+(0.0099)Leu;0.740,0.765,0.705,0.687,0.695,0.803,0.707,0.723,(1.2383)+(-0.1081)Cit+(0.0307)Orn+(0.1496)Ile+(-0.0907)Leu;0.740,0.763,0.790,0.803,0.780,0.771,0.790,0.786,(1.5998)+(-0.0364)Asn+(-0.0051)Ala+(-0.2236)Met+(0.0894)Phe;0.740,0.766,0.759,0.769,0.768,0.716,0.745,0.749,(1.0034)+(-0.0334)Asn+(0.0066)Pro+(-0.2948)Met+(0.0833)Phe;0.740,0.776,0.728,0.745,0.734,0.811,0.611,0.725,(0.2529)+(0.0351)Ser+(-0.2431)Met+(0.0204)Orn+(-0.0064)Lys;0.740,0.772,0.779,0.770,0.797,0.839,0.720,0.781,(4.2160)+(-0.0073)Ala+(-0.1092)Cit+(-0.1377)Met+(0.0555)Orn;0.739,0.770,0.733,0.742,0.743,0.798,0.640,0.731,(2.1497)+(0.0398)Ser+(-0.1409)Asn+(-0.0007)Thr+(-0.0698)Cit;0.739,0.759,0.777,0.786,0.786,0.741,0.758,0.768,(1.5499)+(-0.0318)Asn+(-0.2523)Met+(-0.0057)Lys+(0.0885)Phe;0.739,0.769,0.762,0.783,0.724,0.845,0.725,0.769,(1.7430)+(0.0380)Ser+(-0.1358)Asn+(-0.0004)Thr+(-0.0055)Ala;0.739,0.769,0.772,0.797,0.730,0.846,0.742,0.779,(1.1513)+(0.0359)Ser+(-0.1485)Asn+(0.0024)Gln+(-0.0057)Ala;0.739,0.765,0.773,0.780,0.737,0.837,0.786,0.785,(2.0327)+(0.0460)Ser+(-0.1344)Asn+(-0.0061)Gly+(-0.0056)Ala;0.739,0.768,0.751,0.732,0.772,0.773,0.745,0.755,(3.0177)+(-0.0671)Cit+(0.0025)Pro+(-0.2584)Met+(0.0525)Ile;0.739

,0.764,0.747,0.730,0.716,0.829,0.795,0.767,(1.4998)+(0.0041)Gly+(-0.0144)Ala+(-0.1017)Cit+(0.0626)Ile;0.739,0.776,0.727,0.748,0.728,0.809,0.609,0.724,(-0.1064)+(0.0352)Ser+(-0.0010)Tyr+(-0.2665)Met+(0.0165)Orn;0.739,0.766,0.731,0.723,0.699,0.803,0.766,0.748,(2.2291)+(-0.0079)Thr+(-0.0785)Cit+(0.1605)Ile+(-0.0904)Leu;0.738,0.774,0.732,0.739,0.775,0.726,0.626,0.717,(0.5461)+(0.0300)Thr+(-0.0804)Cit+(-0.3835)Met+(0.1016)Phe;0.738,0.768,0.708,0.696,0.682,0.778,0.742,0.724,(0.1570)+(-0.0912)Cit+(0.1585)Ile+(-0.0989)Leu+(0.0451)Phe;0.738,0.769,0.732,0.720,0.756,0.776,0.685,0.734,(2.3304)+(0.0051)Gly+(-0.0769)Cit+(-0.2647)Met+(0.0596)Ile;0.738,0.765,0.784,0.810,0.785,0.748,0.738,0.770,(-1.1103)+(0.0058)Gln+(-0.0164)Arg+(-0.3228)Met+(0.0894)Phe;0.738,0.775,0.751,0.782,0.753,0.831,0.607,0.743,(1.1966)+(0.0360)Ser+(-0.0121)Arg+(-0.0036)Val+(-0.2136)Met;0.738,0.773,0.741,0.771,0.747,0.816,0.596,0.733,(0.7464)+(0.0374)Ser+(-0.0119)Arg+(-0.2283)Met+(-0.0006)Lys;0.738,0.775,0.753,0.785,0.742,0.835,0.628,0.748,(0.3970)+(0.0333)Ser+(0.0013)Gln+(-0.0039)Val+(-0.2416)Met;0.738,0.776,0.749,0.775,0.745,0.839,0.623,0.745,(0.6195)+(0.0354)Ser+(0.0078)Tyr+(-0.0040)Val+(-0.2478)Met;0.738,0.767,0.699,0.701,0.689,0.735,0.690,0.704,(-1.3670)+(0.0476)Ser+(-0.1801)Asn+(-0.0080)Thr+(0.0518)Phe;0.738,0.763,0.724,0.728,0.691,0.781,0.739,0.735,(0.8156)+(-0.0358)Arg+(0.1609)Ile+(-0.1032)Leu+(0.0452)Phe;0.738,0.773,0.750,0.741,0.789,0.761,0.687,0.744,(1.1340)+(-0.0907)Cit+(-0.2802)Met+(0.0363)Orn+(0.0794)Phe;0.738,0.766,0.764,0.769,0.741,0.792,0.779,0.770,(4.1044)+(0.0107)Pro+(-0.0380)Val+(-0.2560)Met+(0.0594)Leu;0.738,0.772,0.734,0.746,0.746,0.797,0.634,0.731,(2.2230)+(0.0399)Ser+(-0.1376)Asn+(-0.0667)Cit+(-0.0045)Arg;0.738,0.770,0.737,0.740,0.731,0.715,0.755,0.735,(0.3425)+(-0.0276)Tyr+(-0.3033)Met+(0.0426)Ile+(0.0746)Phe;0.737,0.772,0.749,0.783,0.749,0.819,0.608,0.740,(0.1849)+(0.0353)Ser+(0.0020)Gln+(-0.0140)Arg+(-0.2398)Met;0.73

7,0.766,0.741,0.730,0.738,0.779,0.751,0.749,(2.2503)+(0.0023)Gly+(-0.2580)Met+(-0.0103)Lys+(0.0603)Ile;0.737,0.763,0.766,0.790,0.766,0.731,0.728,0.754,(-1.4279)+(0.0013)Gly+(0.0042)Gln+(-0.3430)Met+(0.0892)Phe;0.737,0.768,0.750,0.735,0.750,0.776,0.770,0.758,(2.6107)+(0.0020)Pro+(-0.2570)Met+(-0.0099)Lys+(0.0561)Ile;0.737,0.773,0.722,0.736,0.728,0.794,0.623,0.720,(-0.1892)+(0.0399)Ser+(-0.2621)Met+(-0.0066)Lys+(0.0135)Leu;0.737,0.773,0.738,0.763,0.739,0.821,0.610,0.733,(0.3316)+(0.0370)Ser+(0.0055)Tyr+(-0.2486)Met+(-0.0030)Lys;0.737,0.776,0.741,0.769,0.738,0.815,0.622,0.736,(-0.1773)+(0.0356)Ser+(0.0011)Gln+(0.0042)Tyr+(-0.2666)Met;0.737,0.763,0.724,0.741,0.742,0.697,0.665,0.711,(-0.4648)+(0.0219)Thr+(-0.3876)Met+(0.0020)Orn+(0.0925)Phe;0.737,0.769,0.756,0.767,0.769,0.719,0.727,0.746,(0.7437)+(-0.0100)Arg+(0.0072)Pro+(-0.3163)Met+(0.0858)Phe;0.737,0.775,0.683,0.659,0.670,0.787,0.696,0.703,(-0.1469)+(0.0452)Ser+(-0.1347)Asn+(-0.0186)Lys+(0.0445)Ile;0.736,0.765,0.770,0.770,0.759,0.779,0.786,0.774,(0.7704)+(-0.0444)Asn+(0.0053)Gln+(-0.2733)Met+(0.0484)Ile;0.736,0.769,0.739,0.740,0.744,0.789,0.686,0.740,(2.2043)+(0.0444)Ser+(-0.1414)Asn+(-0.0037)Gly+(-0.0652)Cit;0.736,0.774,0.742,0.769,0.750,0.817,0.600,0.734,(0.5842)+(0.0379)Ser+(-0.0123)Arg+(0.0052)Tyr+(-0.2410)Met;0.736,0.760,0.764,0.771,0.775,0.733,0.744,0.756,(1.0481)+(-0.0412)Asn+(-0.2686)Met+(0.0149)Orn+(0.0787)Phe;0.736,0.761,0.728,0.720,0.735,0.748,0.719,0.731,(1.9456)+(-0.0333)Asn+(0.0193)Thr+(-0.3120)Met+(0.0501)Ile;0.736,0.773,0.746,0.775,0.742,0.830,0.618,0.741,(0.8078)+(0.0350)Ser+(-0.0034)Val+(-0.2304)Met+(-0.0012)Lys;0.736,0.773,0.743,0.772,0.738,0.820,0.621,0.738,(0.0951)+(0.0350)Ser+(0.0014)Gln+(-0.2445)Met+(-0.0034)Lys;0.736,0.760,0.761,0.779,0.771,0.729,0.716,0.749,(0.7627)+(-0.0434)Asn+(0.0033)Gly+(-0.2716)Met+(0.0889)Phe;0.736,0.766,0.783,0.826,0.750,0.746,0.765,0.772,(3.5180)+(-0.1078)Asn+(-0.0497)Tyr+(-0.0162)Val+(0.1002)Phe;0.736

,0.763,0.764,0.767,0.756,0.782,0.760,0.766,(0.5855)+(0.0051)Gln+(-0.0151)Arg+(-0.2955)Met+(0.0524)Ile;0.736,0.762,0.784,0.801,0.773,0.760,0.775,0.777,(0.9161)+(-0.0048)Ala+(-0.2562)Met+(-0.0050)Leu+(0.0957)Phe;0.736,0.766,0.754,0.773,0.761,0.708,0.724,0.742,(0.4912)+(0.0084)Pro+(-0.3166)Met+(-0.0128)Leu+(0.0970)Phe;0.736,0.764,0.716,0.707,0.691,0.797,0.737,0.733,(1.1953)+(0.0011)Gln+(-0.0879)Cit+(0.1569)Ile+(-0.0902)Leu;0.736,0.767,0.675,0.656,0.671,0.735,0.690,0.688,(-1.6709)+(0.0454)Ser+(-0.1954)Asn+(0.0199)Ile+(0.0363)Phe;0.736,0.762,0.777,0.791,0.786,0.760,0.736,0.768,(1.8638)+(-0.0542)Cit+(-0.0117)Val+(-0.2543)Met+(0.1125)Phe;0.736,0.766,0.765,0.765,0.792,0.822,0.666,0.761,(4.1856)+(-0.0945)Cit+(-0.0094)Val+(-0.1716)Met+(0.0548)Orn;0.735,0.764,0.753,0.742,0.752,0.780,0.769,0.760,(2.7509)+(-0.0042)Arg+(-0.2466)Met+(-0.0092)Lys+(0.0580)Ile;0.735,0.770,0.693,0.664,0.750,0.825,0.554,0.698,(0.9800)+(0.0280)Ser+(-0.1171)Cit+(0.0511)Orn+(-0.0270)Lys;0.735,0.764,0.704,0.694,0.694,0.732,0.730,0.712,(-0.8945)+(0.0505)Ser+(-0.1889)Asn+(-0.0048)Gly+(0.0456)Phe;0.735,0.761,0.728,0.725,0.727,0.756,0.718,0.732,(0.2418)+(0.0030)Gln+(0.0154)Thr+(-0.3595)Met+(0.0528)Ile;0.735,0.769,0.760,0.779,0.722,0.844,0.728,0.768,(1.6357)+(0.0381)Ser+(-0.1373)Asn+(-0.0058)Ala+(0.0018)Leu;0.735,0.767,0.736,0.773,0.724,0.793,0.620,0.727,(2.1079)+(0.0392)Ser+(-0.1230)Asn+(-0.0126)Arg+(-0.0281)Tyr;0.735,0.765,0.784,0.792,0.788,0.780,0.761,0.780,(1.9505)+(-0.0058)Ala+(-0.0673)Cit+(-0.2229)Met+(0.0958)Phe;0.735,0.761,0.759,0.739,0.725,0.825,0.834,0.781,(1.4032)+(-0.0147)Ala+(-0.0957)Cit+(0.0546)Ile+(0.0229)Phe;0.735,0.762,0.689,0.688,0.685,0.730,0.671,0.694,(-1.2432)+(0.0446)Ser+(-0.1938)Asn+(0.0006)Pro+(0.0483)Phe;0.734,0.765,0.727,0.745,0.756,0.716,0.627

,0.711,(0.1938)+(0.0288)Thr+(-0.0209)Arg+(-0.3783)Met+(0.0970)Phe;0.734,0.765,0.774,0.791,0.784,0.747,0.730,0.763,(-1.0621)+(0.0067)Gln+(-

0.0794)Cit+(-0.3207)Met+(0.0955)Phe;0.734,0.763,0.709,0.699,0.687,0.796,0.716,0.725,(1.3520)+(0.0019)Gly+(-0.0887)Cit+(0.1576)Ile+(-0.0897)Leu;0.734,0.759,0.764,0.748,0.724,0.833,0.836,0.785,(1.1732)+(0.0024)Gln+(-0.0146)Ala+(-0.0994)Cit+(0.0589)Ile;0.734,0.761,0.721,0.717,0.736,0.750,0.679,0.720,(1.9424)+(0.0228)Thr+(-0.0178)Arg+(-0.3317)Met+(0.0535)Ile;0.734,0.764,0.758,0.789,0.742,0.824,0.658,0.753,(2.8896)+(0.0382)Ser+(-0.1310)Asn+(-0.0126)Arg+(-0.0102)Val;0.734,0.767,0.738,0.760,0.732,0.696,0.718,0.727,(0.6505)+(0.0084)Pro+(-0.0331)Tyr+(-0.2898)Met+(0.0943)Phe;0.734,0.762,0.729,0.726,0.707,0.806,0.728,0.742,(2.6019)+(-0.0656)Cit+(-0.0182)Arg+(0.1602)Ile+(-0.0910)Leu;0.734,0.768,0.753,0.789,0.728,0.821,0.664,0.751,(2.9124)+(0.0366)Ser+(-0.1348)Asn+(-0.0174)Tyr+(-0.0087)Val;0.734,0.760,0.776,0.803,0.773,0.733,0.742,0.763,(-1.1659)+(0.0046)Gln+(-0.3244)Met+(-0.0094)Leu+(0.0962)Phe;0.734,0.762,0.786,0.801,0.780,0.769,0.769,0.780,(1.2008)+(-0.0051)Ala+(-0.0083)Arg+(-0.2479)Met+(0.0919)Phe;0.733,0.760,0.747,0.762,0.759,0.724,0.702,0.737,(-0.1227)+(0.0021)Gly+(-0.3197)Met+(0.0114)Orn+(0.0854)Phe;0.733,0.760,0.762,0.743,0.730,0.829,0.832,0.784,(2.2177)+(-0.0139)Ala+(-0.0918)Cit+(-0.0015)Arg+(0.0591)Ile;0.733,0.762,0.748,0.745,0.739,0.765,0.762,0.753,(0.3799)+(0.0039)Gln+(0.0017)Pro+(-0.3175)Met+(0.0505)Ile;0.733,0.757,0.714,0.707,0.721,0.743,0.700,0.718,(1.1786)+(0.0009)Gly+(0.0171)Thr+(-0.3466)Met+(0.0540)Ile;0.733,0.761,0.758,0.776,0.764,0.735,0.717,0.748,(0.3395)+(-0.2948)Met+(0.0171)Orn+(-0.0118)Leu+(0.0920)Phe;0.733,0.767,0.751,0.732,0.768,0.773,0.749,0.755,(2.8985)+(-0.0705)Cit+(0.0040)Arg+(-0.2577)Met+(0.0556)Ile;0.733,0.757,0.716,0.708,0.721,0.741,0.707,0.719,(1.3092)+(0.0174)Thr+(0.0012)Pro+(-0.3472)Met+(0.0520)Ile;0.733,0.762,0.784,0.778,0.733,0.844,0.863,0.804,(3.3613)+(-0.0638)Asn+(-0.0098)Ala+(-0.0129)Lys+(0.0539)Ile;0.733,0.764,0.682,0.666,0.666,0.755,0.706,0.698,(-0.8868)+(0.0465)Ser+(-0

.1584)Asn+(-0.0100)Thr+(0.0332)Ile;0.733,0.758,0.759,0.741,0.727,0.82
8,0.825,0.780,(2.0632)+(0.0021)Thr+(-0.0142)Ala+(-0.0949)Cit+(0.0590)
Ile;0.733,0.759,0.733,0.743,0.700,0.795,0.729,0.742,(1.2660)+(0.0026)
Gln+(-0.0367)Arg+(0.1612)Ile+(-0.0964)Leu;0.733,0.762,0.758,0.738,0.7
96,0.822,0.684,0.760,(4.6767)+(-0.0830)Asn+(-0.1063)Cit+(0.0559)Orn+(
-0.0143)Lys;0.733,0.768,0.741,0.740,0.786,0.801,0.609,0.734,(3.3747)+
(0.0163)Thr+(-0.0995)Cit+(-0.2562)Met+(0.0397)Orn;0.733,0.758,0.746,0
.735,0.747,0.755,0.765,0.751,(2.2985)+(-0.0201)Asn+(0.0024)Pro+(-0.26
70)Met+(0.0484)Ile;0.732,0.766,0.744,0.753,0.753,0.717,0.722,0.736,(0
.1402)+(0.0064)Pro+(-0.3351)Met+(0.0092)Orn+(0.0820)Phe;0.732,0.759,0
.771,0.784,0.781,0.741,0.738,0.761,(1.1624)+(-0.0064)Arg+(-0.2754)Met
+(-0.0056)Lys+(0.0906)Phe;0.732,0.760,0.749,0.747,0.739,0.768,0.762,0
.754,(0.3559)+(0.0039)Gln+(-0.3138)Met+(0.0010)Orn+(0.0520)Ile;0.732,
0.760,0.689,0.666,0.675,0.754,0.737,0.708,(-0.3535)+(0.0487)Ser+(-0.1
717)Asn+(-0.0048)Gly+(0.0269)Ile;0.732,0.760,0.745,0.744,0.735,0.767,
0.751,0.749,(0.2924)+(0.0009)Gly+(0.0037)Gln+(-0.3153)Met+(0.0530)Ile
;0.732,0.763,0.757,0.745,0.797,0.818,0.660,0.755,(4.1498)+(-0.0997)Ci
t+(-0.1657)Met+(0.0533)Orn+(-0.0097)Lys;0.732,0.765,0.688,0.702,0.600
,0.803,0.755,0.715,(-1.0867)+(0.0248)Ser+(-0.0111)Ala+(-0.0490)Tyr+(0
.0555)Ile;0.732,0.761,0.768,0.782,0.739,0.824,0.752,0.774,(3.0076)+(0
.0461)Ser+(-0.1429)Asn+(-0.0068)Gly+(-0.0111)Val;0.732,0.765,0.802,0.
818,0.766,0.835,0.810,0.807,(2.3793)+(0.0045)Gln+(-0.0369)Val+(-0.257
6)Met+(0.0627)Leu;0.732,0.762,0.759,0.772,0.773,0.736,0.711,0.748,(0.
7095)+(-0.0129)Arg+(-0.2925)Met+(0.0170)Orn+(0.0814)Phe;0.732,0.758,0
.735,0.741,0.704,0.789,0.741,0.744,(2.3843)+(-0.0310)Arg+(-0.0048)Pro
+(0.1675)Ile+(-0.0953)Leu;0.732,0.756,0.718,0.710,0.724,0.742,0.708,0
.721,(1.3507)+(0.0183)Thr+(-0.3463)Met+(-0.0027)Orn+(0.0543)Ile;0.732
,0.764,0.689,0.686,0.685,0.735,0.668,0.694,(-1.2724)+(0.0443)Ser+(-0.

1954)Asn+(0.0058)Orn+(0.0465)Phe;0.732,0.759,0.756,0.763,0.754,0.825,0.693,0.759,(3.8200)+(-0.0092)Ala+(-0.1174)Cit+(-0.0342)Tyr+(0.0578)Orn;0.732,0.762,0.762,0.784,0.762,0.727,0.732,0.751,(1.2336)+(-0.0256)Tyr+(-0.2459)Met+(-0.0065)Lys+(0.0979)Phe;0.732,0.757,0.736,0.729,0.738,0.758,0.738,0.741,(1.9648)+(-0.0252)Asn+(0.0027)Gly+(-0.2639)Met+(0.0525)Ile;0.732,0.764,0.769,0.803,0.737,0.833,0.703,0.769,(1.9310)+(0.0344)Ser+(-0.1613)Asn+(0.0032)Gln+(-0.0114)Val;0.731,0.757,0.743,0.732,0.746,0.760,0.755,0.748,(2.1876)+(-0.0240)Asn+(-0.2607)Met+(0.0091)Orn+(0.0475)Ile;0.731,0.761,0.774,0.797,0.758,0.753,0.762,0.768,(1.0538)+(-0.0047)Ala+(-0.0212)Tyr+(-0.2337)Met+(0.0971)Phe;0.731,0.764,0.766,0.785,0.766,0.733,0.741,0.756,(-1.2777)+(0.0041)Gln+(-0.3403)Met+(0.0073)Orn+(0.0847)Phe;0.731,0.757,0.724,0.717,0.682,0.782,0.790,0.742,(1.8702)+(-0.0099)Thr+(-0.0103)Lys+(0.1501)Ile+(-0.0843)Leu;0.731,0.763,0.713,0.744,0.696,0.775,0.624,0.710,(1.6138)+(0.0372)Ser+(-0.1459)Asn+(-0.0384)Tyr+(0.0220)Orn;0.731,0.764,0.746,0.765,0.720,0.784,0.724,0.748,(2.3025)+(0.0480)Ser+(-0.1291)Asn+(-0.0074)Gly+(-0.0362)Tyr;0.731,0.765,0.749,0.736,0.761,0.770,0.739,0.752,(3.2357)+(-0.0660)Cit+(-0.0131)Tyr+(-0.2298)Met+(0.0562)Ile;0.731,0.757,0.765,0.768,0.789,0.748,0.720,0.756,(1.8355)+(-0.0625)Cit+(-0.2547)Met+(-0.0059)Lys+(0.0949)Phe;0.731,0.758,0.714,0.712,0.659,0.755,0.803,0.732,(-0.0444)+(-0.0167)Thr+(0.1560)Ile+(-0.0994)Leu+(0.0365)Phe;0.731,0.766,0.745,0.738,0.736,0.771,0.766,0.753,(2.8181)+(-0.0130)Tyr+(-0.2303)Met+(-0.0096)Lys+(0.0592)Ile;0.731,0.765,0.710,0.698,0.672,0.777,0.770,0.729,(1.4620)+(0.0083)Orn+(-0.0162)Lys+(0.1407)Ile+(-0.0800)Leu;0.731,0.763,0.713,0.705,0.673,0.776,0.775,0.732,(1.4374)+(0.0004)Gln+(-0.0153)Lys+(0.1430)Ile+(-0.0803)Leu;0.731,0.762,0.699,0.696,0.643,0.761,0.781,0.720,(-0.9391)+(-0.0081)Pro+(0.1582)Ile+(-0.0988)Leu+(0.0345)Phe;0.731,0.760,0.696,0.699,0.687,0.732,0.679,0.699,(-1.5349)+(0.0436)Ser+

(-0.1999)Asn+(0.0014)Gln+(0.0478)Phe;0.731,0.759,0.764,0.756,0.799,0.807,0.684,0.761,(4.3823)+(-0.0510)Asn+(-0.0965)Cit+(-0.1522)Met+(0.0484)Orn;0.731,0.758,0.772,0.786,0.779,0.737,0.742,0.761,(0.9629)+(-0.2769)Met+(-0.0052)Lys+(-0.0064)Leu+(0.0961)Phe;0.731,0.757,0.735,0.722,0.737,0.753,0.749,0.740,(1.7334)+(0.0021)Pro+(-0.2927)Met+(0.0065)Orn+(0.0483)Ile;0.730,0.761,0.751,0.780,0.727,0.822,0.669,0.750,(2.7117)+(0.0361)Ser+(-0.1493)Asn+(0.0025)Thr+(-0.0111)Val;0.730,0.756,0.758,0.780,0.767,0.724,0.705,0.744,(0.1855)+(0.0024)Gly+(-0.3002)Met+(-0.0087)Leu+(0.0985)Phe;0.730,0.760,0.678,0.662,0.665,0.759,0.687,0.693,(-0.6383)+(0.0428)Ser+(-0.1742)Asn+(-0.0018)Pro+(0.0321)Ile;0.730,0.759,0.756,0.777,0.770,0.729,0.691,0.742,(0.3836)+(0.0029)Gly+(-0.0106)Arg+(-0.2986)Met+(0.0918)Phe;0.730,0.764,0.709,0.739,0.718,0.679,0.630,0.692,(-0.2073)+(0.0259)Thr+(-0.0360)Tyr+(-0.3519)Met+(0.1061)Phe;0.730,0.760,0.773,0.789,0.759,0.767,0.762,0.769,(3.1164)+(-0.1419)Asn+(-0.0229)Val+(0.0334)Orn+(0.0712)Phe;0.730,0.759,0.762,0.795,0.749,0.718,0.732,0.749,(-1.0399)+(0.0046)Gln+(-0.0269)Tyr+(-0.3008)Met+(0.0957)Phe;0.730,0.762,0.718,0.707,0.678,0.779,0.785,0.737,(1.8012)+(-0.0013)Gly+(-0.0145)Lys+(0.1434)Ile+(-0.0809)Leu;0.730,0.758,0.727,0.726,0.674,0.778,0.802,0.745,(1.2871)+(-0.0137)Thr+(-0.0050)Pro+(0.1624)Ile+(-0.0929)Leu;0.730,0.757,0.727,0.718,0.728,0.751,0.734,0.733,(1.5192)+(0.0022)Gly+(0.0022)Pro+(-0.2975)Met+(0.0519)Ile;0.730,0.759,0.747,0.747,0.772,0.729,0.707,0.739,(1.2982)+(-0.0642)Cit+(0.0071)Pro+(-0.3004)Met+(0.0888)Phe;0.730,0.762,0.647,0.653,0.636,0.742,0.584,0.654,(-0.3998)+(0.0263)Ser+(-0.0856)Cit+(-0.0664)Tyr+(0.0434)Ile;0.729,0.762,0.725,0.718,0.680,0.790,0.790,0.744,(1.7852)+(-0.0060)Pro+(-0.0143)Lys+(0.1536)Ile+(-0.0818)Leu;0.729,0.756,0.761,0.778,0.789,0.790,0.637,0.748,(4.8814)+(-0.0557)Asn+(0.0253)Thr+(-0.0691)Cit+(-0.2100)Met;0.729,0.762,0.753,0.782,0.730,0.826,0.675,0.753,(2.6648)+(0.0373)Ser

+(-0.1405)Asn+(-0.0100)Val+(-0.0022)Lys;0.729,0.754,0.725,0.721,0.705,0.826,0.708,0.740,(0.8652)+(0.0257)Ser+(-0.0132)Ala+(-0.0931)Cit+(0.0130)Pro;0.729,0.759,0.737,0.749,0.770,0.740,0.635,0.723,(0.4974)+(0.0057)Gly+(-0.0761)Cit+(-0.2929)Met+(0.1018)Phe;0.729,0.758,0.782,0.775,0.735,0.833,0.861,0.801,(2.0462)+(-0.0988)Asn+(-0.0112)Ala+(0.0387)Ile+(0.0302)Phe;0.729,0.760,0.785,0.788,0.780,0.821,0.761,0.788,(4.8888)+(-0.0087)Ala+(-0.0691)Cit+(0.0153)Pro+(-0.1556)Met;0.729,0.760,0.723,0.757,0.704,0.782,0.632,0.719,(1.8933)+(0.0377)Ser+(-0.1385)Asn+(0.0015)Thr+(-0.0319)Tyr;0.729,0.757,0.794,0.798,0.779,0.814,0.801,0.798,(3.3725)+(-0.0864)Asn+(-0.0087)Ala+(-0.0742)Cit+(0.0636)Phe;0.729,0.756,0.735,0.729,0.738,0.760,0.725,0.738,(1.8844)+(0.0026)Gly+(-0.0097)Arg+(-0.2751)Met+(0.0548)Ile;0.729,0.757,0.770,0.763,0.716,0.827,0.858,0.791,(2.7954)+(-0.0909)Asn+(-0.0120)Ala+(0.0067)Pro+(0.0400)Ile;0.729,0.758,0.742,0.734,0.747,0.764,0.740,0.746,(2.1344)+(-0.0107)Arg+(-0.2699)Met+(0.0108)Orn+(0.0491)Ile;0.728,0.756,0.772,0.786,0.782,0.728,0.743,0.760,(1.4413)+(-0.0321)Asn+(-0.0071)Arg+(-0.2583)Met+(0.0857)Phe;0.728,0.754,0.776,0.796,0.781,0.732,0.746,0.764,(1.5124)+(-0.0415)Asn+(-0.2435)Met+(-0.0104)Leu+(0.0948)Phe;0.728,0.764,0.687,0.679,0.686,0.769,0.655,0.697,(-0.2957)+(0.0441)Ser+(-0.1522)Asn+(-0.0195)Arg+(0.0328)Ile;0.728,0.760,0.762,0.751,0.706,0.828,0.861,0.787,(1.4531)+(-0.0117)Ala+(-0.0212)Lys+(0.0533)Ile+(0.0236)Phe;0.728,0.758,0.751,0.744,0.751,0.763,0.760,0.755,(2.5365)+(-0.0149)Asn+(-0.0074)Arg+(-0.2535)Met+(0.0514)Ile;0.728,0.759,0.745,0.737,0.748,0.759,0.753,0.749,(2.2812)+(-0.0089)Arg+(0.0026)Pro+(-0.2750)Met+(0.0499)Ile;0.728,0.757,0.707,0.709,0.703,0.734,0.690,0.709,(1.6309)+(0.0194)Thr+(-0.0216)Tyr+(-0.3157)Met+(0.0554)Ile;0.728,0.758,0.697,0.728,0.675,0.753,0.623,0.695,(1.6572)+(0.0387)Ser+(-0.1404)Asn+(0.0070)Pro+(-0.0407)Tyr;0.728,0.756,0.718,0.719,0.696,0.785,0.710,0.728,(2.0147)+(-0.0353)A

rg+(0.0146)Orn+(0.1578)Ile+(-0.0962)Leu;0.727,0.762,0.737,0.777,0.708,0.786,0.657,0.732,(1.2124)+(0.0360)Ser+(-0.1500)Asn+(0.0028)Gln+(-0.0326)Tyr;0.727,0.755,0.728,0.721,0.729,0.753,0.728,0.733,(1.4443)+(0.0020)Gly+(-0.2935)Met+(0.0053)Orn+(0.0524)Ile;0.727,0.756,0.761,0.787,0.757,0.712,0.736,0.748,(1.6551)+(-0.0417)Asn+(-0.0302)Tyr+(-0.2155)Met+(0.0934)Phe;0.727,0.756,0.768,0.774,0.790,0.739,0.726,0.757,(2.0736)+(-0.0324)Asn+(-0.0626)Cit
+(-0.2393)Met+(0.0897)Phe;0.727,0.757,0.791,0.794,0.732,0.842,0.872,0.810,(1.6691)+(-0.1114)Asn+(0.0039)Gln+(-0.0105)Ala+(0.0431)Ile;0.727,0.759,0.664,0.660,0.610,0.762,0.715,0.687,(-1.6532)+(0.0170)Ser+(-0.0075)Pro+(0.1552)Ile+(-0.0901)Leu;0.727,0.757,0.752,0.737,0.698,0.823,0.851,0.777,(1.9455)+(-0.0113)Ala+(0.0146)Orn+(-0.0216)Lys+(0.0537)Ile;0.726,0.752,0.759,0.748,0.767,0.829,0.721,0.766,(3.0824)+(-0.0112)Ala+(-0.1171)Cit+(-0.0063)Arg+(0.0540)Orn;0.726,0.756,0.773,0.791,0.789,0.815,0.660,0.764,(4.4887)+(0.0233)Thr+(-0.0049)Ala+(-0.0735)Cit+(-0.2116)Met;0.726,0.748,0.759,0.756,0.761,0.831,0.712,0.765,(3.3719)+(-0.0096)Ala+(-0.1161)Cit+(-0.0079)Val+(0.0585)Orn;0.726,0.756,0.728,0.753,0.702,0.802,0.665,0.731,(2.6453)+(0.0376)Ser+(-0.1556)Asn+(0.0092)Pro+(-0.0148)Val;0.726,0.753,0.746,0.728,0.743,0.830,0.739,0.760,(2.7095)+(-0.0143)Ala+(-0.1232)Cit+(0.0097)Pro+(0.0490)Orn;0.726,0.764,0.675,0.690,0.695,0.773,0.520,0.670,(0.8386)+(0.0209)Ser+(-0.1094)Cit+(-0.0604)Tyr+(0.0417)Orn;0.726,0.754,0.722,0.728,0.695,0.783,0.718,0.731,(2.1109)+(0.0007)Gly+(-0.0326)Arg+(0.1600)Ile+(-0.0945)Leu;0.726,0.762,0.730,0.763,0.711,0.795,0.637,0.726,(2.0538)+(0.0387)Ser+(-0.1259)Asn+(-0.0262)Tyr+(-0.0054)Lys;0.726,0.750,0.749,0.740,0.755,0.826,0.704,0.756,(2.5971)+(0.0018)Gly+(-0.0117)Ala+(-0.1253)Cit+(0.0536)Orn;0.726,0.757,0.728,0.731,0.701,0.789,0.732,0.738,(2.5053)+(-0.0289)Arg+(-0.0046)Lys+(0.1573)Ile+(-0.0906)Leu;0.726,0.755,0.783,0.779,0.

738,0.835,0.848,0.800,(3.0026)+(-0.0754)Asn+(-0.0102)Ala+(-0.0108)Arg+(0.0467)Ile;0.725,0.766,0.652,0.605,0.680,0.785,0.624,0.674,(-0.4265)+(0.0354)Ser+(-0.0894)Cit+(-0.0303)Lys+(0.0534)Ile;0.725,0.757,0.743,0.732,0.782,0.793,0.657,0.741,(3.4068)+(-0.0944)Cit+(0.0058)Pro+(-0.2241)Met+(0.0423)Orn;0.725,0.753,0.700,0.696,0.650,0.761,0.767,0.719,(0.6459)+(-0.0008)Gln+(-0.0066)Pro+(0.1559)Ile+(-0.0912)Leu;0.725,0.758,0.714,0.725,0.724,0.787,0.614,0.712,(0.8845)+(0.0401)Ser+(-0.1489)Asn+(-0.0183)Arg+(0.0176)Orn;0.725,0.748,0.757,0.747,0.762,0.828,0.721,0.764,(2.9704)+(-0.0112)Ala+(-0.1219)Cit+(0.0545)Orn+(-0.0029)Leu;0.725,0.754,0.750,0.734,0.752,0.814,0.743,0.761,(1.4840)+(-0.0130)Ala+(-0.1233)Cit+(0.0488)Orn+(0.0364)Phe;0.725,0.756,0.743,0.739,0.785,0.797,0.623,0.736,(3.2612)+(0.0022)Gly+(-0.0998)Cit+(-0.2049)Met+(0.0457)Orn;0.725,0.755,0.742,0.765,0.739,0.713,0.707,0.731,(0.4903)+(-0.0303)Tyr+(-0.2689)Met+(0.0158)Orn+(0.0898)Phe;0.725,0.758,0.750,0.737,0.693,0.818,0.856,0.776,(2.0823)+(-0.0125)Ala+(0.0057)Pro+(-0.0196)Lys+(0.0528)Ile;0.725,0.753,0.728,0.719,0.768,0.792,0.621,0.725,(3.3896)+(-0.1205)Asn+(0.0044)Gly+(-0.1091)Cit+(0.0457)Orn;0.724,0.756,0.735,0.705,0.770,0.776,0.708,0.740,(3.1160)+(-0.1134)Asn+(-0.1022)Cit+(0.0383)Orn+(0.0179)Ile;0.724,0.752,0.657,0.668,0.598,0.717,0.709,0.673,(-0.9341)+(0.0375)Ser+(-0.0103)Gly+(-0.0784)Tyr+(0.0355)Ile;0.724,0.756,0.744,0.772,0.743,0.709,0.698,0.730,(0.3718)+(0.0020)Gly+(-0.0248)Tyr+(-0.2769)Met+(0.0971)Phe;0.724,0.757,0.674,0.656,0.665,0.755,0.682,0.690,(-0.6925)+(0.0425)Ser+(-0.1775)Asn+(0.0041)Orn+(0.0280)Ile;0.724,0.749,0.758,0.745,0.762,0.825,0.732,0.766,(2.9527)+(-0.0024)Thr+(-0.0113)Ala+(-0.1217)Cit+(0.0546)Orn;0.724,0.755,0.743,0.751,0.724,0.760,0.754,0.747,(0.6263)+(0.0039)Gln+(-0.0151)Tyr+(-0.2874)Met+(0.0535)Ile;0.724,0.759,0.725,0.759,0.705,0.785,0.637,0.721,(1.8643)+(0.0382)Ser+(-0.1364)Asn+(-0.0308)Tyr+(-0.0002)Leu;0.724,0.758,0.657,0.688,0

.649,0.705,0.556,0.649,(-1.4039)+(0.0285)Ser+(-0.0880)Cit+(-0.0792)Tyr+(0.0722)Phe;0.724,0.754,0.763,0.765,0.732,0.820,0.784,0.775,(5.0476)+(-0.1413)Asn+(-0.0461)Val+(0.0406)Orn+(0.0585)Leu;0.724,0.749,0.756,0.745,0.758,0.826,0.728,0.764,(2.4475)+(0.0010)Gln+(-0.0117)Ala+(-0.1236)Cit+(0.0522)Orn;0.724,0.755,0.730,0.728,0.721,0.744,0.743,0.734,(2.1790)+(0.0032)Pro+(-0.0180)Tyr+(-0.2615)Met+(0.0507)Ile;0.724,0.751,0.723,0.726,0.700,0.803,0.708,0.734,(-1.0702)+(0.0270)Ser+(-0.0117)Ala+(-0.0949)Cit+(0.0531)Phe;0.723,0.753,0.741,0.741,0.732,0.751,0.754,0.744,(2.6545)+(-0.0227)Asn+(-0.0173)Tyr+(-0.2280)Met+(0.0522)Ile;0.723,0.754,0.729,0.733,0.698,0.785,0.737,0.739,(2.3443)+(-0.0037)Thr+(-0.0295)Arg+(0.1604)Ile+(-0.0943)Leu;0.723,0.754,0.759,0.789,0.755,0.712,0.719,0.744,(0.9101)+(-0.0271)Tyr+(-0.2500)Met+(-0.0091)Leu+(0.1039)Phe;0.723,0.756,0.757,0.775,0.738,0.802,0.715,0.757,(3.1457)+(0.0153)Thr+(-0.0079)Ala+(0.0131)Pro+(-0.2443)Met;0.723,0.751,0.780,0.792,0.756,0.809,0.780,0.784,(4.1820)+(-0.0346)Asn+(-0.0076)Ala+(0.0135)Pro+(-0.1575)Met;0.723,0.758,0.742,0.752,0.730,0.751,0.736,0.742,(4.1422)+(-0.0754)Asn+(-0.0685)Cit+(-0.0467)Tyr+(0.0405)Ile;0.723,0.757,0.793,0.799,0.759,0.833,0.815,0.802,(4.1666)+(-0.0031)Ala+(-0.0348)Val+(-0.2014)Met+(0.0631)Leu;0.723,0.756,0.735,0.745,0.768,0.771,0.614,0.724,(3.7329)+(0.0215)Thr+(-0.0741)Cit+(0.0079)Pro+(-0.2814)Met;0.723,0.753,0.760,0.770,0.734,0.809,0.752,0.766,(3.0147)+(-0.0082)Ala+(0.0128)Pro+(-0.2064)Met+(0.0209)Orn;0.722,0.753,0.713,0.709,0.665,0.765,0.787,0.731,(1.0014)+(-0.0169)Thr+(0.0104)Orn+(0.1527)Ile+(-0.0928)Leu;0.722,0.751,0.770,0.792,0.777,0.730,0.722,0.755,(1.0408)+(-0.0096)Arg+(-0.2736)Met+(-0.0091)Leu+(0.0966)Phe;0.722,0.754,0.770,0.769,0.713,0.836,0.846,0.791,(2.4374)+(-0.0945)Asn+(0.0024)Gly+(-0.0105)Ala+(0.0470)Ile;0.722,0.758,0.630,0.607,0.596,0.753,0.671,0.657,(-0.6663)+(0.0231)Ser+(-0.0042)Gln+(0.1445)Ile+(-0.0866)Leu;0.722,0.752,0.773,0.7

68,0.722,0.834,0.850,0.794,(2.6469)+(-0.0938)Asn+(-0.0106)Ala+(0.0115)Orn+(0.0414)Ile;0.722,0.758,0.674,0.651,0.619,0.764,0.784,0.705,(-1.4223)+(0.0279)Ser+(-0.0089)Gly+(0.1437)Ile+(-0.0893)Leu;0.722,0.755,0.664,0.698,0.609,0.673,0.681,0.665,(-1.6528)+(0.0390)Ser+(-0.0107)Gly+(-0.0901)Tyr+(0.0599)Phe;0.722,0.755,0.779,0.810,0.781,0.816,0.667,0.769,(4.8860)+(-0.0723)Asn+(0.0230)Thr+(-0.0095)Val+(-0.1751)Met;0.722,0.756,0.756,0.783,0.757,0.714,0.714,0.742,(1.1369)+(-0.0089)Arg+(-0.0263)Tyr+(-0.2508)Met+(0.0953)Phe;0.722,0.756,0.732,0.757,0.687,0.813,0.698,0.739,(-1.7356)+(0.0290)Ser+(-0.0105)Ala+(-0.0292)Arg+(0.0480)Phe;0.722,0.749,0.673,0.661,0.627,0.735,0.754,0.694,(-0.3248)+(-0.0019)Gln+(0.1455)Ile+(-0.0959)Leu+(0.0317)Phe;0.722,0.757,0.730,0.752,0.727,0.799,0.630,0.727,(1.5784)+(0.0409)Ser+(-0.1270)Asn+(-0.0120)Arg+(-0.0070)Lys;0.722,0.758,0.698,0.683,0.610,0.810,0.839,0.735,(-2.4628)+(0.0355)Ser+(-0.0213)Thr+(-0.0126)Ala+(0.0564)Ile;0.722,0.754,0.655,0.707,0.631,0.714,0.522,0.644,(-1.8194)+(0.0313)Ser+(-0.0306)Arg+(-0.0745)Tyr+(0.0690)Phe;0.722,0.754,0.760,0.755,0.792,0.808,0.672,0.757,(4.5590)+(-0.1047)Asn+(-0.1025)Cit+(0.0523)Orn+(-0.0135)Leu;0.722,0.757,0.709,0.714,0.710,0.798,0.634,0.714,(1.0813)+(0.0398)Ser+(-0.1412)Asn+(0.0212)Orn+(-0.0124)Lys;0.721,0.756,0.789,0.797,0.761,0.809,0.813,0.795,(5.3431)+(-0.0620)Asn+(-0.0388)Val+(-0.1561)Met+(0.0650)Leu;0.721,0.754,0.778,0.788,0.754,0.818,0.774,0.783,(3.8846)+(0.0010)Gly+(-0.0364)Val+(-0.2268)Met+(0.0631)Leu;0.721,0.749,0.719,0.720,0.664,0.767,0.795,0.737,(0.8206)+(0.0009)Gln+(-0.0161)Thr+(0.1549)Ile+(-0.0926)Leu;0.721,0.754,0.740,0.741,0.726,0.795,0.727,0.747,(1.7324)+(0.0493)Ser+(-0.1302)Asn+(-0.0067)Gly+(-0.0104)Lys;0.721,0.752,0.728,0.749,0.736,0.801,0.606,0.723,(3.5610)+(-0.1022)Cit+(-0.0471)Tyr+(-0.0112)Val+(0.0569)Orn;0.721,0.752,0.756,0.779,0.783,0.801,0.609,0.743,(4.3525)+(0.0228)Thr+(-0.0658)Cit+(-0.0049)Val+(-0.2379)Met;0.721,0.751,0

.725,0.724,0.717,0.746,0.729,0.729,(1.8112)+(0.0019)Gly+(-0.0137)Tyr+(-0.2670)Met+(0.0554)Ile;0.721,0.751,0.762,0.785,0.782,0.793,0.634,0.749,(2.2646)+(0.0048)Gln+(0.0194)Thr+(-0.0782)Cit+(-0.2750)Met;0.721,0.757,0.640,0.634,0.615,0.747,0.630,0.656,(-0.5633)+(0.0315)Ser+(-0.0509)Tyr+(-0.0250)Lys+(0.0537)Ile;0.721,0.752,0.743,0.764,0.778,0.783,0.587,0.728,(3.8110)+(0.0012)Gly+(0.0221)Thr+(-0.0729)Cit+(-0.2556)Met;0.720,0.751,0.781,0.809,0.780,0.792,0.701,0.771,(2.0777)+(-0.0809)Asn+(0.0054)Gln+(0.0181)Thr+(-0.2302)Met;0.720,0.752,0.820,0.841,0.796,0.841,0.799,0.820,(3.2413)+(-0.1061)Asn+(0.0074)Gln+(-0.0067)Ala+(-0.0810)Cit;0.720,0.751,0.762,0.777,0.695,0.806,0.829,0.777,(3.4409)+(-0.0727)Asn+(-0.0088)Ala+(-0.0362)Tyr+(0.0517)Ile;0.720,0.749,0.717,0.716,0.665,0.767,0.791,0.735,(1.1453)+(0.0001)Gly+(-0.0150)Thr+(0.1546)Ile+(-0.0920)Leu;0.720,0.752,0.763,0.757,0.699,0.833,0.864,0.788,(1.4785)+(0.0017)Gln+(-0.0113)Ala+(-0.0210)Lys+(0.0572)Ile;0.720,0.751,0.739,0.739,0.733,0.754,0.743,0.742,(2.5101)+(-0.0081)Arg+(-0.0150)Tyr+(-0.2435)Met+(0.0540)Ile;0.720,0.751,0.634,0.622,0.586,0.728,0.698,0.658,(-3.0864)+(0.0167)Ser+(0.1427)Ile+(-0.0949)Leu+(0.0301)Phe;0.720,0.749,0.763,0.773,0.786,0.739,0.707,0.751,(1.5273)+(-0.0630)Cit+(-0.2627)Met+(-0.0069)Leu+(0.0982)Phe;0.720,0.754,0.776,0.786,0.741,0.771,0.823,0.780,(3.8574)+(-0.1431)Asn+(-0.0408)Val+(0.0462)Leu+(0.0648)Phe;0.720,0.748,0.780,0.803,0.744,0.812,0.773,0.783,(2.0863)+(0.0038)Gln+(-0.0077)Ala+(0.0134)Pro+(-0.2197)Met;0.720,0.756,0.754,0.788,0.747,0.721,0.701,0.739,(3.2745)+(-0.0885)Asn+(-0.0652)Cit+(-0.0580)Tyr+(0.0765)Phe;0.720,0.755,0.738,0.745,0.732,0.781,0.700,0.739,(1.4698)+(0.0483)Ser+(-0.1394)Asn+(-0.0059)Gly+(-0.0152)Arg;0.720,0.754,0.709,0.712,0.705,0.775,0.664,0.714,(0.3417)+(0.0420)Ser+(-0.1564)Asn+(-0.0082)Thr+(0.0173)Orn;0.719,0.753,0.700,0.698,0.648,0.764,0.766,0.719,(0.2017)+(-0.0071)Pro+(0.0019)Orn+(0.1556)Ile+(-0.0917)Leu;0.719,0.752,

0.727,0.730,0.758,0.803,0.602,0.723,(4.1309)+(-0.1093)Cit+(-0.0437)Tyr+(0.0599)Orn+(-0.0165)Lys;0.719,0.756,0.735,0.763,0.732,0.796,0.625,0.729,(1.6336)+(0.0397)Ser+(-0.1365)Asn+(-0.0149)Arg+(-0.0049)Leu;0.719,0.754,0.679,0.665,0.667,0.756,0.689,0.694,(-0.9320)+(0.0418)Ser+(-0.1821)Asn+(0.0012)Gln+(0.0287)Ile;0.719,0.754,0.752,0.747,0.790,0.798,0.655,0.747,(3.5886)+(-0.0969)Cit+(-0.1969)Met+(0.0470)Orn+(-0.0021)Leu;0.719,0.752,0.753,0.764,0.747,0.858,0.661,0.757,(2.0541)+(0.0288)Ser+(-0.0070)Ala+(-0.0787)Cit+(-0.0121)Lys;0.719,0.753,0.751,0.769,0.764,0.719,0.699,0.738,(1.6894)+(-0.0631)Cit+(-0.0254)Tyr+(-0.2376)Met+(0.0993)Phe;0.719,0.751,0.726,0.724,0.717,0.746,0.737,0.731,(1.9827)+(-0.0178)Tyr+(-0.2578)Met+(0.0093)Orn+(0.0511)Ile;0.719,0.749,0.767,0.803,0.744,0.797,0.700,0.761,(5.1509)+(-0.1024)Asn+(-0.0288)Tyr+(-0.0140)Val+(0.0406)Orn;0.719,0.753,0.724,0.746,0.722,0.783,0.627,0.719,(1.2073)+(0.0409)Ser+(-0.1397)Asn+(-0.0011)Thr+(-0.0150)Arg;0.719,0.752,0.780,0.807,0.774,0.812,0.700,0.773,(4.1109)+(-0.0586)Asn+(0.0214)Thr+(-0.0042)Ala+(-0.1850)Met;0.719,0.746,0.776,0.798,0.745,0.815,0.757,0.779,(4.1870)+(-0.0067)Ala+(0.0154)Pro+(-0.0076)Val+(-0.1769)Met;0.719,0.748,0.775,0.797,0.767,0.808,0.713,0.771,(4.6691)+(-0.0705)Asn+(-0.0126)Val+(-0.1180)Met+(0.0373)Orn;0.719,0.752,0.740,0.754,0.775,0.768,0.613,0.727,(3.6162)+(0.0237)Thr+(-0.0742)Cit+(-0.2766)Met+(0.0071)Leu;0.719,0.748,0.768,0.783,0.741,0.806,0.757,0.772,(3.4079)+(0.0010)Gly+(-0.0079)Ala+(0.0141)Pro+(-0.1953)Met;0.719,0.754,0.746,0.746,0.777,0.793,0.645,0.740,(3.8153)+(-0.0979)Cit+(-0.0192)Tyr+(-0.1694)Met+(0.0491)Orn;0.719,0.753,0.737,0.764,0.729,0.791,0.641,0.731,(0.4860)+(0.0384)Ser+(-0.1547)Asn+(0.0031)Gln+(-0.0178)Arg;0.719,0.753,0.806,0.829,0.750,0.830,0.845,0.814,(3.7173)+(-0.1551)Asn+(0.0059)Gln+(-0.0409)Val+(0.0557)Leu;0.719,0.752,0.712,0.709,0.660,0.767,0.792,0.732,(0.6959)+(-0.0022)Gly+(-0.

0067)Pro+(0.1556)Ile+(-0.0917)Leu;0.719,0.755,0.776,0.773,0.722,0.835,0.855,0.796,(2.7275)+(-0.0992)Asn+(0.0057)Thr+(-0.0107)Ala+(0.0441)Ile;0.719,0.752,0.758,0.748,0.697,0.833,0.856,0.783,(2.0125)+(0.0005)Gly+(-0.0112)Ala+(-0.0197)Lys+(0.0578)Ile;0.718,0.756,0.763,0.765,0.794,0.801,0.668,0.757,(2.1378)+(0.0041)Gln+(-0.0994)Cit+(-0.2255)Met+(0.0404)Orn;0.718,0.749,0.746,0.730,0.780,0.789,0.688,0.747,(3.7557)+(-0.1106)Asn+(-0.1030)Cit+(-0.0004)Pro+(0.0453)Orn;0.718,0.746,0.787,0.789,0.770,0.829,0.787,0.794,(5.1784)+(-0.0697)Asn+(-0.0102)Ala+(-0.0733)Cit+(0.0125)Pro;0.718,0.750,0.744,0.767,0.734,0.790,0.675,0.741,(3.3344)+(0.0099)Pro+(-0.0130)Val+(-0.2208)Met+(0.0287)Orn;0.718,0.753,0.778,0.782,0.772,0.803,0.764,0.780,(4.7601)+(-0.0462)Cit+(-0.0320)Val+(-0.2045)Met+(0.0570)Leu;0.718,0.750,0.760,0.768,0.729,0.797,0.777,0.768,(5.3390)+(-0.1597)Asn+(0.0188)Thr+(-0.0456)Val+(0.0628)Leu;0.718,0.753,0.673,0.734,0.616,0.713,0.599,0.666,(-1.4132)+(0.0226)Ser+(-0.0722)Tyr+(-0.0155)Val+(0.0847)Phe;0.718,0.749,0.802,0.825,0.768,0.799,0.813,0.801,(3.3231)+(-0.1135)Asn+(-0.0051)Ala+(-0.0157)Val+(0.0809)Phe;0.718,0.750,0.809,0.841,0.779,0.781,0.808,0.802,(1.8535)+(-0.1560)Asn+(0.0052)Gln+(-0.0198)Val+(0.0722)Phe;0.718,0.749,0.783,0.799,0.780,0.763,0.764,0.776,(3.8083)+(-0.1165)Asn+(-0.0563)Cit+(-0.0167)Val+(0.0800)Phe;0.718,0.749,0.764,0.813,0.740,0.710,0.726,0.747,(2.8787)+(-0.0981)Asn+(-0.0586)Tyr+(-0.0173)Leu+(0.0896)Phe;0.717,0.749,0.776,0.792,0.749,0.809,0.763,0.778,(3.8590)+(-0.0077)Ala+(-0.0074)Arg+(0.0141)Pro+(-0.1808)Met;0.717,0.752,0.759,0.749,0.698,0.833,0.857,0.784,(2.0589)+(0.0014)Thr+(-0.0112)Ala+(-0.0201)Lys+(0.0574)Ile;0.717,0.755,0.785,0.787,0.764,0.820,0.797,0.792,(3.9089)+(0.0103)Tyr+(-0.0377)Val+(-0.2411)Met+(0.0644)Leu;0.717,0.752,0.740,0.717,0.782,0.765,0.696,0.740,(2.7543)+(-0.1207)Asn+(-0.1020)Cit+(0.0407)Orn+(0.0277)Phe;0.717,0.748,0.775,0.810,0.731,0.767,0.781,0.772,(2.8131)+(-0.0898)Asn+(

-0.0065)Ala+(-0.0495)Tyr+(0.0773)Phe;0.717,0.753,0.768,0.762,0.789,0.804,0.712,0.767,(2.2833)+(-0.1406)Asn+(0.0055)Gln+(-0.1076)Cit+(0.0394)Orn;0.717,0.752,0.721,0.735,0.715,0.796,0.640,0.721,(1.1528)+(0.0373)Ser+(-0.1624)Asn+(0.0182)Orn+(-0.0091)Leu;0.717,0.749,0.716,0.706,0.709,0.769,0.720,0.726,(0.6953)+(0.0470)Ser+(-0.1668)Asn+(-0.0058)Gly+(0.0134)Orn;0.717,0.748,0.747,0.731,0.782,0.789,0.685,0.747,(3.7877)+(-0.1080)Asn+(-0.1008)Cit+(-0.0029)Arg+(0.0452)Orn;0.717,0.753,0.782,0.791,0.755,0.815,0.788,0.787,(4.0260)+(-0.0364)Val+(-0.2250)Met+(0.0004)Lys+(0.0626)Leu;0.717,0.750,0.705,0.719,0.709,0.769,0.616,0.703,(0.9513)+(0.0412)Ser+(-0.1452)Asn+(-0.0173)Arg+(0.0041)Pro;0.717,0.752,0.756,0.760,0.781,0.734,0.710,0.746,(1.3589)+(-0.0668)Cit+(0.0027)Arg+(-0.2770)Met+(0.0917)Phe;0.717,0.750,0.741,0.765,0.722,0.834,0.649,0.743,(1.8257)+(0.0253)Ser+(-0.0071)Ala+(-0.0792)Cit+(-0.0251)Tyr;0.716,0.752,0.751,0.745,0.790,0.797,0.655,0.747,(3.5587)+(-0.0956)Cit+(-0.0015)Arg+(-0.1997)Met+(0.0462)Orn;0.716,0.750,0.662,0.640,0.587,0.815,0.770,0.703,(-1.2661)+(0.0305)Ser+(-0.0043)Gln+(-0.0137)Ala+(0.0520)Ile;0.716,0.751,0.749,0.767,0.781,0.789,0.602,0.735,(4.2411)+(0.0238)Thr+(-0.0707)Cit+(-0.2405)Met+(-0.0043)Lys;0.716,0.748,0.773,0.787,0.746,0.807,0.769,0.777,(3.6620)+(-0.0078)Ala+(0.0141)Pro+(-0.1877)Met+(-0.0014)Lys;0.716,0.749,0.746,0.767,0.780,0.784,0.596,0.732,(4.0941)+(0.0242)Thr+(-0.0671)Cit+(-0.0060)Arg+(-0.2520)Met;0.716,0.748,0.770,0.782,0.743,0.806,0.770,0.775,(3.4345)+(-0.0080)Ala+(0.0138)Pro+(-0.1979)Met+(0.0030)Leu;0.716,0.746,0.693,0.642,0.743,0.794,0.654,0.708,(2.4248)+(-0.1150)Cit+(0.0468)Orn+(-0.0290)Lys+(0.0370)Ile;0.716,0.746,0.804,0.828,0.805,0.808,0.738,0.795,(2.6678)+(-0.0722)Asn+(0.0082)Gln+(-0.0739)Cit+(-0.1569)Met;0.716,0.751,0.721,0.736,0.712,0.799,0.646,0.723,(1.3600)+(0.0405)Ser+(-0.1353)Asn+(-0.0007)Thr+(-0.0089)Lys;0.716,0.750,0.763,0.757,0.710,0.831,0.842,0.785,(2.3818)+(-0.0108)A

la+(-0.0109)Arg+(-0.0164)Lys+(0.0569)Ile;0.716,0.750,0.745,0.767,0.774,0.783,0.598,0.730,(4.1056)+(0.0232)Thr+(-0.0705)Cit+(-0.0095)Tyr+(-0.2406)Met;0.715,0.743,0.780,0.804,0.771,0.772,0.742,0.772,(1.9148)+(-0.0638)Asn+(0.0058)Gln+(0.0066)Pro+(-0.2137)Met;0.715,0.747,0.680,0.672,0.635,0.747,0.746,0.700,(0.5671)+(-0.0015)Gln+(0.0015)Orn+(0.1448)Ile+(-0.0900)Leu;0.715,0.747,0.730,0.729,0.713,0.773,0.735,0.737,(1.0105)+(0.0490)Ser+(-0.1496)Asn+(-0.0059)Gly+(-0.0045)Thr;0.715,0.750,0.751,0.785,0.748,0.812,0.625,0.742,(3.0910)+(0.0137)Thr+(-0.0105)Val+(-0.2351)Met+(0.0254)Orn;0.715,0.744,0.741,0.761,0.748,0.751,0.664,0.731,(3.4268)+(-0.0545)Asn+(0.0188)Thr+(0.0064)Pro+(-0.2434)Met;0.715,0.749,0.742,0.775,0.739,0.786,0.630,0.732,(3.4990)+(0.0172)Thr+(0.0105)Pro+(-0.0111)Val+(-0.2635)Met;0.715,0.748,0.768,0.787,0.738,0.798,0.759,0.771,(3.7237)+(-0.0077)Ala+(0.0145)Pro+(-0.0104)Tyr+(-0.1774)Met;0.715,0.746,0.675,0.670,0.623,0.732,0.754,0.695,(-1.0492)+(-0.0049)Orn+(0.1460)Ile+(-0.0961)Leu+(0.0300)Phe;0.715,0.750,0.748,0.756,0.681,0.813,0.819,0.767,(2.7972)+(-0.0094)Ala+(-0.0349)Tyr+(-0.0157)Lys+(0.0608)Ile;0.715,0.742,0.781,0.794,0.766,0.812,0.753,0.781,(3.7871)+(-0.0503)Asn+(-0.0049)Ala+(-0.1385)Met+(0.0281)Orn;0.714,0.751,0.696,0.746,0.615,0.771,0.681,0.703,(-1.6781)+(0.0243)Ser+(-0.0086)Ala+(-0.0620)Tyr+(0.0680)Phe;0.714,0.747,0.771,0.794,0.761,0.743,0.751,0.762,(3.2364)+(-0.1600)Asn+(0.0155)Thr+(-0.0218)Val+(0.0795)Phe;0.714,0.750,0.721,0.736,0.712,0.799,0.645,0.723,(1.3917)+(0.0402)Ser+(-0.1361)Asn+(-0.0090)Lys+(-0.0003)Leu;0.714,0.745,0.639,0.662,0.617,0.728,0.557,0.641,(-0.9499)+(0.0298)Ser+(-0.0297)Arg+(-0.0620)Tyr+(0.0415)Ile;0.714,0.745,0.788,0.810,0.761,0.829,0.759,0.790,(4.8254)+(-0.1032)Asn+(-0.0043)Ala+(-0.0134)Val+(0.0377)Orn;0.714,0.748,0.742,0.747,0.727,0.789,0.728,0.748,(1.6517)+(0.0467)Ser+(-0.1507)Asn+(-0.0063)Gly+(-0.0069)Leu;0.714,0.752,0.733,0.753,0.717,0.802,0.665,0.734,(0.7204)+(0.0

383)Ser+(-0.1484)Asn+(0.0027)Gln+(-0.0098)Lys;0.714,0.754,0.782,0.792,0.758,0.814,0.783,0.787,(4.1454)+(-0.0024)Arg+(-0.0358)Val+(-0.2189)Met+(0.0618)Leu;0.714,0.745,0.775,0.781,0.735,0.799,0.826,0.785,(2.4716)+(-0.1053)Asn+(-0.0110)Ala+(0.0091)Pro+(0.0459)Phe;0.714,0.745,0.777,0.806,0.758,0.762,0.753,0.770,(2.8890)+(-0.1349)Asn+(0.0028)Gly+(-0.0193)Val+(0.0789)Phe;0.714,0.745,0.693,0.685,0.644,0.749,0.773,0.713,(0.7524)+(-0.0021)Gly+(-0.0008)Gln+(0.1452)Ile+(-0.0904)Leu;0.714,0.744,0.773,0.801,0.750,0.820,0.711,0.771,(3.4203)+(-0.0036)Ala+(-0.0086)Val+(-0.1681)Met+(0.0332)Orn;0.714,0.745,0.780,0.818,0.759,0.819,0.694,0.772,(1.8289)+(0.0035)Gln+(0.0159)Thr+(-0.0043)Ala+(-0.2488)Met;0.713,0.744,0.755,0.781,0.767,0.765,0.653,0.741,(3.6694)+(-0.0590)Asn+(0.0001)Gly+(0.0207)Thr+(-0.2197)Met;0.713,0.749,0.742,0.725,0.779,0.783,0.679,0.741,(3.7033)+(-0.1193)Asn+(0.0044)Thr+(-0.1034)Cit+(0.0432)Orn;0.713,0.742,0.711,0.704,0.699,0.757,0.718,0.720,(0.8217)+(0.0476)Ser+(-0.1618)Asn+(-0.0057)Gly+(0.0025)Pro;0.713,0.740,0.745,0.755,0.750,0.759,0.700,0.741,(3.2101)+(-0.0458)Asn+(0.0061)Pro+(-0.2056)Met+(0.0207)Orn;0.713,0.748,0.728,0.747,0.713,0.793,0.662,0.729,(1.2091)+(0.0399)Ser+(-0.1484)Asn+(-0.0035)Thr+(-0.0050)Leu;0.713,0.746,0.662,0.688,0.661,0.746,0.532,0.657,(0.7854)+(0.0249)Ser+(-0.0811)Cit+(0.0066)Pro+(-0.0577)Tyr;0.713,0.747,0.702,0.709,0.695,0.785,0.638,0.707,(1.1298)+(0.0410)Ser+(-0.1391)Asn+(0.0045)Pro+(-0.0107)Lys;0.712,0.744,0.821,0.851,0.793,0.834,0.791,0.817,(2.4167)+(-0.0677)Asn+(0.0062)Gln+(-0.0038)Ala+(-0.1484)Met;0.712,0.752,0.662,0.699,0.630,0.731,0.580,0.660,(-1.4214)+(0.0316)Ser+(-0.0666)Tyr+(-0.0217)Lys+(0.0758)Phe;0.712,0.743,0.717,0.736,0.671,0.827,0.684,0.729,(-0.0998)+(0.0273)Ser+(-0.0115)Ala+(-0.0267)Arg+(0.0111)Pro;0.712,0.749,0.645,0.639,0.595,0.744,0.697,0.669,(-1.8360)+(0.0174)Ser+(-0.0079)Orn+(0.1451)Ile+(-0.0885)Leu;0.712,0.744,0.807,0.832,0.798,0.825,0.746,0.800,(2.5966)+(0

.0062)Gln+(-0.0048)Ala+(-0.0755)Cit+(-0.1681)Met;0.712,0.742,0.583,0.588,0.551,0.687,0.561,0.597,(-0.6932)+(0.0302)Ser+(-0.0042)Gln+(-0.0695)Tyr+(0.0413)Ile;0.712,0.742,0.768,0.783,0.778,0.782,0.694,0.759,(2.0319)+(0.0058)Gln+(-0.0749)Cit+(0.0080)Pro+(-0.2450)Met;0.712,0.750,0.774,0.812,0.764,0.831,0.652,0.765,(3.5808)+(0.0195)Thr+(-0.0032)Ala+(-0.0060)Val+(-0.2202)Met;0.712,0.744,0.685,0.677,0.631,0.735,0.783,0.707,(-0.6337)+(-0.0024)Gly+(0.1446)Ile+(-0.0960)Leu+(0.0280)Phe;0.712,0.747,0.697,0.675,0.611,0.820,0.843,0.737,(-2.0349)+(0.0322)Ser+(-0.0067)Gly+(-0.0142)Ala+(0.0460)Ile;0.711,0.745,0.784,0.806,0.776,0.792,0.737,0.778,(1.8935)+(-0.0709)Asn+(0.0053)Gln+(-0.1936)Met+(0.0183)Orn;0.711,0.748,0.773,0.818,0.764,0.818,0.642,0.760,(2.1492)+(0.0035)Gln+(0.0167)Thr+(-0.0078)Val+(-0.2590)Met;0.711,0.745,0.736,0.736,0.717,0.778,0.746,0.744,(0.3579)+(0.0460)Ser+(-0.1722)Asn+(-0.0062)Gly+(0.0026)Gln;0.711,0.744,0.704,0.764,0.654,0.708,0.643,0.693,(0.6219)+(-0.0716)Tyr+(-0.0182)Val+(0.0262)Orn+(0.0769)Phe;0.711,0.741,0.747,0.768,0.759,0.766,0.655,0.737,(3.3112)+(-0.0609)Asn+(0.0168)Thr+(-0.2205)Met+(0.0168)Orn;0.711,0.745,0.690,0.694,0.687,0.762,0.636,0.695,(0.3439)+(0.0396)Ser+(-0.1712)Asn+(0.0019)Pro+(0.0121)Orn;0.711,0.742,0.698,0.704,0.688,0.761,0.659,0.703,(0.4691)+(0.0424)Ser+(-0.1535)Asn+(-0.0067)Thr+(0.0038)Pro;0.711,0.745,0.646,0.599,0.635,0.746,0.721,0.675,(-1.3828)+(0.0439)Ser+(-0.0082)Gly+(-0.0326)Lys+(0.0428)Ile;0.711,0.748,0.737,0.729,0.772,0.826,0.624,0.738,(3.4842)+(-0.1073)Cit+(-0.0103)Val+(0.0598)Orn+(-0.0164)Lys;0.711,0.741,0.745,0.741,0.691,0.804,0.827,0.766,(1.2640)+(-0.0136)Ala+(-0.0216)Arg+(0.0065)Pro+(0.0419)Ile;0.711,0.746,0.820,0.858,0.
796,0.826,0.769,0.812,(2.9898)+(-0.0814)Asn+(0.0067)Gln+(-0.0087)Val+(-0.1368)Met;0.710,0.744,0.751,0.784,0.757,0.760,0.642,0.736,(4.0488)+(-0.0622)Asn+(0.0218)Thr+(-0.0166)Tyr+(-0.1906)Met;0.710,0.743,0.772

,0.805,0.755,0.815,0.691,0.766,(2.1849)+(0.0031)Gln+(-0.0101)Val+(-0.2132)Met+(0.0276)Orn;0.710,0.741,0.754,0.780,0.768,0.770,0.650,0.742,(3.8838)+(-0.0561)Asn+(0.0214)Thr+(-0.2107)Met+(-0.0033)Lys;0.710,0.744,0.790,0.811,0.780,0.835,0.725,0.788,(4.9815)+(-0.0744)Asn+(0.0036)Gly+(-0.0062)Ala+(-0.0730)Cit;0.710,0.743,0.708,0.724,0.698,0.772,0.640,0.708,(1.1960)+(0.0386)Ser+(-0.1581)Asn+(0.0047)Pro+(-0.0089)Leu;0.710,0.743,0.669,0.658,0.571,0.802,0.810,0.710,(-2.4591)+(0.0231)Ser+(-0.0154)Ala+(0.0050)Pro+(0.0426)Ile;0.710,0.742,0.781,0.787,0.750,0.807,0.813,0.789,(2.2806)+(-0.1096)Asn+(-0.0090)Ala+(0.0185)Orn+(0.0449)Phe;0.710,0.741,0.792,0.803,0.741,0.835,0.840,0.805,(5.4210)+(-0.1064)Asn+(-0.0043)Ala+(-0.0368)Val+(0.0572)Leu;0.709,0.743,0.696,0.690,0.644,0.749,0.779,0.716,(0.4129)+(-0.0026)Gly+(0.0008)Orn+(0.1445)Ile+(-0.0907)Leu;0.709,0.746,0.727,0.745,0.708,0.783,0.678,0.728,(0.1372)+(0.0399)Ser+(-0.1627)Asn+(0.0024)Gln+(-0.0057)Thr;0.709,0.746,0.707,0.728,0.720,0.803,0.553,0.701,(1.8889)+(0.0287)Ser+(-0.0739)Cit+(-0.0313)Tyr+(-0.0137)Lys;0.709,0.741,0.722,0.753,0.631,0.773,0.796,0.738,(0.5782)+(-0.0110)Ala+(-0.0584)Tyr+(0.0435)Ile+(0.0399)Phe;0.709,0.741,0.743,0.757,0.733,0.834,0.661,0.746,(1.3394)+(0.0266)Ser+(-0.0084)Ala+(-0.0756)Cit+(-0.0104)Arg;0.709,0.740,0.806,0.822,0.764,0.817,0.839,0.811,(1.1787)+(-0.1288)Asn+(0.0045)Gln+(-0.0087)Ala+(0.0486)Phe;0.709,0.743,0.754,0.778,0.766,0.762,0.658,0.741,(3.5882)+(-0.0579)Asn+(0.0208)Thr+(-0.2250)Met+(0.0016)Leu;0.709,0.738,0.768,0.790,0.745,0.740,0.776,0.763,(3.3836)+(-0.1331)Asn+(0.0064)Pro+(-0.0212)Val+(0.0712)Phe;0.709,0.742,0.787,0.801,0.780,0.828,0.735,0.786,(5.2641)+(-0.0945)Asn+(0.0152)Thr+(-0.0073)Ala+(-0.0746)Cit;0.709,0.746,0.707,0.715,0.698,0.774,0.653,0.710,(0.0955)+(0.0383)Ser+(-0.1766)Asn+(0.0015)Gln+(0.0121)Orn;0.709,0.743,0.797,0.832,0.781,0.802,0.735,0.788,(3.1586)+(-0.1129)Asn+(0.0078)Gln+(-0.0757)Cit+(-0.0346)Tyr;0.709,0.742,0.769

,0.799,0.759,0.808,0.679,0.761,(3.2144)+(-0.0009)Gly+(0.0190)Thr+(-0.0043)Ala+(-0.2315)Met;0.708,0.736,0.759,0.772,0.764,0.780,0.700,0.754,(3.6494)+(-0.0460)Asn+(-0.1636)Met+(0.0278)Orn+(-0.0054)Lys;0.708,0.736,0.802,0.831,0.789,0.794,0.756,0.792,(2.0346)+(-0.0691)Asn+(-0.0000)Gly+(0.0063)Gln+(-0.1839)Met;0.708,0.740,0.750,0.788,0.725,0.714,0.729,0.739,(2.9158)+(-0.0868)Asn+(-0.0585)Tyr+(-0.0082)Lys+(0.0732)Phe;0.708,0.741,0.741,0.755,0.765,0.772,0.634,0.731,(3.6801)+(0.0033)Gly+(-0.0694)Cit+(0.0090)Pro+(-0.2159)Met;0.708,0.741,0.758,0.785,0.743,0.808,0.679,0.754,(2.7148)+(0.0138)Thr+(-0.0050)Ala+(-0.2290)Met+(0.0194)Orn;0.708,0.738,0.761,0.768,0.782,0.767,0.697,0.753,(4.6875)+(-0.0345)Asn+(-0.0612)Cit+(0.0081)Pro+(-0.1738)Met;0.708,0.735,0.762,0.788,0.750,0.801,0.691,0.758,(3.4117)+(-0.0011)Gly+(-0.0105)Val+(-0.1902)Met+(0.0328)Orn;0.708,0.739,0.674,0.677,0.682,0.737,0.606,0.675,(1.9396)+(-0.1060)Cit+(-0.0682)Tyr+(0.0379)Orn+(0.0303)Ile;0.708,0.739,0.743,0.719,0.755,0.782,0.752,0.752,(3.9197)+(-0.0711)Asn+(-0.0730)Cit+(-0.0149)Lys+(0.0407)Ile;0.708,0.739,0.795,0.804,0.765,0.814,0.819,0.800,(2.8184)+(-0.0894)Asn+(-0.0078)Ala+(-0.0081)Lys+(0.0570)Phe;0.707,0.742,0.633,0.648,0.578,0.709,0.654,0.647,(-1.9692)+(0.0322)Ser+(-0.0167)Thr+(-0.0605)Tyr+(0.0407)Ile;0.707,0.740,0.713,0.734,0.733,0.775,0.575,0.704,(3.1508)+(-0.1065)Cit+(-0.0535)Tyr+(0.0520)Orn+(-0.0098)Leu;0.707,0.744,0.712,0.702,0.732,0.753,0.665,0.713,(2.6186)+(-0.1145)Asn+(0.0058)Gly+(-0.0852)Cit+(0.0337)Ile;0.707,0.739,0.742,0.753,0.724,0.830,0.689,0.749,(1.1551)+(0.0281)Ser+(-0.0070)Thr+(-0.0082)Ala+(-0.0809)Cit;0.707,0.740,0.722,0.750,0.739,0.761,0.585,0.709,(3.1036)+(0.0205)Thr+(-0.0171)Arg+(0.0073)Pro+(-0.2784)Met;0.707,0.734,0.804,0.833,0.791,0.803,0.758,0.796,(2.1700)+(-0.0669)Asn+(0.0064)Gln+(-0.1751)Met+(-0.0028)Lys;0.707,0.746,0.737,0.761,0.720,0.794,0.665,0.735,(0.7120)+(0.0366)Ser+(-0.1664)Asn+(0.0025)Gln+(-0.0066)Leu;0.707,0.739

,0.716,0.748,0.718,0.740,0.607,0.703,(2.8039)+(0.0168)Thr+(0.0081)Pro+(-0.0194)Tyr+(-0.2644)Met;0.707,0.739,0.760,0.786,0.751,0.803,0.676,0.754,(3.3652)+(-0.0098)Val+(-0.1855)Met+(0.0331)Orn+(-0.0024)Lys;0.707,0.739,0.668,0.652,0.692,0.766,0.588,0.675,(-1.1353)+(0.0351)Ser+(-0.0902)Cit+(-0.0270)Lys+(0.0571)Phe;0.707,0.739,0.771,0.789,0.755,0.819,0.725,0.772,(3.2591)+(-0.0048)Ala+(-0.1663)Met+(0.0297)Orn+(-0.0059)Lys;0.707,0.742,0.792,0.822,0.767,0.826,0.744,0.790,(3.5124)+(-0.1383)Asn+(0.0043)Gln+(-0.0169)Val+(0.0319)Orn;0.707,0.739,0.751,0.782,0.770,0.769,0.618,0.735,(4.0180)+(-0.0504)Asn+(0.0238)Thr+(-0.0130)Arg+(-0.2157)Met;0.707,0.741,0.788,0.815,0.771,0.757,0.773,0.779,(3.5168)+(-0.1165)Asn+(-0.0093)Arg+(-0.0187)Val+(0.0763)Phe;0.707,0.739,0.785,0.800,0.748,0.807,0.804,0.790,(2.0895)+(-0.1101)Asn+(0.0025)Gly+(-0.0085)Ala+(0.0543)Phe;0.707,0.739,0.706,0.722,0.731,0.767,0.569,0.697,(3.0390)+(-0.0990)Cit+(-0.0098)Arg+(-0.0560)Tyr+(0.0484)Orn;0.707,0.739,0.737,0.747,0.740,0.775,0.674,0.734,(2.8492)+(0.0067)Pro+(-0.2272)Met+(0.0231)Orn+(-0.0070)Lys;0.707,0.737,0.736,0.764,0.735,0.762,0.646,0.727,(1.3086)+(0.0032)Gln+(0.0134)Thr+(0.0067)Pro+(-0.3055)Met;0.706,0.740,0.756,0.788,0.722,0.777,0.726,0.753,(2.0988)+(-0.0084)Ala+(-0.0767)Cit+(-0.0495)Tyr+(0.0751)Phe;0.706,0.735,0.726,0.747,0.734,0.750,0.634,0.716,(2.5415)+(-0.0005)Gly+(0.0161)Thr+(0.0070)Pro+(-0.2905)Met;0.706,0.742,0.708,0.728,0.695,0.757,0.648,0.707,(1.4325)+(0.0349)Ser+(-0.0077)Gly+(-0.0681)Cit+(-0.0528)Tyr;0.706,0.736,0.724,0.746,0.734,0.760,0.620,0.715,(2.8929)+(0.0171)Thr+(0.0072)Pro+(-0.2721)Met+(-0.0055)Lys;0.706,0.742,0.765,0.800,0.766,0.806,0.639,0.753,(3.6250)+(-0.0014)Gly+(0.0201)Thr+(-0.0079)Val+(-0.2404)Met;0.706,0.739,0.739,0.754,0.748,0.769,0.658,0.732,(2.8862)+(-0.0134)Arg+(0.0068)Pro+(-0.2329)Met+(0.0224)Orn;0.706,0.737,0.719,0.739,0.727,0.755,0.625,0.711,(2.2042)+(0.0130)Thr+(0.0064)Pro+(-0.2904)Met+(0.0123)Orn;0.706,0.73

9,0.637,0.610,0.644,0.761,0.602,0.654,(-1.3937)+(0.0358)Ser+(-0.0228)Arg+(-0.0268)Lys+(0.0457)Ile;0.706,0.741,0.767,0.798,0.760,0.814,0.664,0.759,(3.3653)+(0.0195)Thr+(-0.0041)Ala+(-0.2203)Met+(-0.0039)Lys;0.706,0.737,0.770,0.796,0.756,0.780,0.723,0.764,(4.9724)+(-0.0522)Asn+(0.0110)Pro+(-0.0114)Val+(-0.1493)Met;0.706,0.741,0.755,0.756,0.699,0.812,0.830,0.774,(0.7339)+(-0.0127)Ala+(-0.0220)Arg+(0.0430)Ile+(0.0181)Phe;0.705,0.737,0.781,0.808,0.751,0.822,0.743,0.781,(1.7521)+(0.0033)Gln+(-0.0049)Ala+(-0.2065)Met+(0.0217)Orn;0.705,0.738,0.762,0.789,0.765,0.806,0.652,0.753,(3.7916)+(-0.0143)Arg+(-0.0106)Val+(-0.1705)Met+(0.0367)Orn;0.705,0.742,0.679,0.668,0.583,0.814,0.814,0.720,(-2.8044)+(0.0236)Ser+(-0.0147)Ala+(0.0447)Ile+(0.0103)Phe;0.705,0.735,0.759,0.774,0.770,0.773,0.684,0.750,(3.6222)+(-0.0432)Asn+(-0.0103)Arg+(-0.1703)Met+(0.0271)Orn;0.705,0.745,0.720,0.738,0.665,0.815,0.721,0.735,(-1.4323)+(0.0309)Ser+(-0.0090)Ala+(-0.0211)Lys+(0.0542)Phe;0.705,0.742,0.747,0.782,0.752,0.763,0.634,0.733,(5.3161)+(-0.1014)Asn+(0.0170)Thr+(-0.0675)Cit+(-0.0406)Tyr;0.705,0.733,0.702,0.718,0.718,0.755,0.590,0.695,(2.8438)+(-0.0009)Gly+(-0.1057)Cit+(-0.0597)Tyr+(0.0478)Orn;0.705,0.736,0.802,0.831,0.789,0.794,0.756,0.793,(2.0368)+(-0.0691)Asn+(0.0063)Gln+(-0.1837)Met+(-0.0001)Leu;0.705,0.739,0.759,0.813,0.715,0.702,0.747,0.744,(1.0791)+(-0.1294)Asn+(0.0052)Gln+(-0.0661)Tyr+(0.0668)Phe;0.705,0.740,0.765,0.762,0.764,0.772,0.773,0.768,(1.5237)+(-0.1395)Asn+(0.0067)Gln+(-0.0869)Cit+(0.0267)Ile;0.705,0.747,0.736,0.761,0.702,0.844,0.665,0.743,(-0.0634)+(0.0249)Ser+(-0.0091)Ala+(-0.0277)Arg+(0.0184)Orn;0.705,0.738,0.773,0.793,0.764,0.816,0.713,0.771,(3.3512)+(-0.0049)Ala+(-0.0128)Arg+(-0.1673)Met+(0.0299)Orn;0.705,0.740,0.759,0.785,0.749,0.796,0.686,0.754,(2.7753)+(0.0189)Thr+(-0.0050)Ala+(-0.2480)Met+(0.0078)Leu;0.704,0.742,0.758,0.800,0.758,0.807,0.608,0.744,(3.5086)+(0.0195)Thr+(-0.0059)Tyr+(-0.0074)Val+(-0.2331)Met;0.70

4,0.741,0.763,0.800,0.751,0.806,0.657,0.754,(3.2047)+(0.0189)Thr+(-0.0041)Ala+(-0.0068)Tyr+(-0.2226)Met;0.704,0.734,0.755,0.770,0.759,0.775,0.693,0.749,(3.2916)+(-0.0517)Asn+(0.0008)Gly+(-0.1791)Met+(0.0240)Orn;0.704,0.732,0.749,0.767,0.751,0.753,0.696,0.742,(3.4844)+(-0.0429)Asn+(0.0017)Gly+(0.0077)Pro+(-0.1978)Met;0.704,0.741,0.626,0.584,0.615,0.748,0.673,0.655,(-2.0686)+(0.0393)Ser+(-0.0154)Thr+(-0.0275)Lys+(0.0488)Ile;0.704,0.737,0.759,0.777,0.731,0.813,0.730,0.763,(4.2476)+(-0.0106)Ala+(-0.0768)Cit+(0.0142)Pro+(-0.0328)Tyr;0.704,0.738,0.767,0.805,0.743,0.786,0.707,0.760,(2.3011)+(0.0041)Gln+(0.0106)Pro+(-0.0104)Val+(-0.2376)Met;0.704,0.732,0.742,0.745,0.722,0.822,0.719,0.752,(1.2291)+(0.0305)Ser+(-0.0045)Gly+(-0.0090)Ala+(-0.0797)Cit;0.704,0.739,0.756,0.786,0.744,0.798,0.668,0.749,(3.3690)+(-0.0088)Tyr+(-0.0100)Val+(-0.1789)Met+(0.0329)Orn;0.704,0.742,0.740,0.788,0.699,0.849,0.619,0.739,(1.0470)+(0.0267)Ser+(-0.0061)Ala+(-0.0215)Arg+(-0.0291)Tyr;0.704,0.736,0.748,0.745,0.698,0.817,0.813,0.768,(1.1423)+(-0.0123)Ala+(-0.0228)Arg+(0.0107)Orn+(0.0432)Ile;0.704,0.736,0.752,0.760,0.771,0.765,0.680,0.744,(4.0353)+(-0.0634)Cit+(0.0084)Pro+(-0.2114)Met+(0.0009)Leu;0.703,0.736,0.797,0.834,0.777,0.786,0.746,0.786,(2.2914)+(-0.0716)Asn+(0.0064)Gln+(-0.0127)Tyr+(-0.1586)Met;0.703,0.734,0.757,0.777,0.738,0.794,0.713,0.756,(4.6742)+(-0.1222)Asn+(0.0067)Pro+(-0.0190)Val+(0.0344)Orn;0.703,0.739,0.758,0.772,0.717,0.831,0.752,0.768,(0.5359)+(0.0357)Ser+(-0.0070)Gly+(-0.0081)Ala+(-0.0238)Arg;0.703,0.734,0.768,0.789,0.747,0.810,0.729,0.769,(2.9305)+(-0.0002)Gly+(-0.0050)Ala+(-0.1851)Met+(0.0262)Orn;0.703,0.734,0.729,0.735,0.712,0.823,0.681,0.738,(0.8571)+(0.0252)Ser+(-0.0098)Ala+(-0.0878)Cit+(0.0049)Leu;0.703,0.734,0.689,0.717,0.689,0.766,0.561,0.683,(0.9526)+(0.0280)Ser+(-0.0073)Thr+(-0.0754)Cit+(-0.0413)Tyr;0.703,0.740,0.762,0.798,0.765,0.808,0.631,0.750,(3.6384)+(0.0227)Thr+(-0.0041)Ala+(-0.0152)Arg+(-0.2222)Met

;0.703,0.734,0.734,0.745,0.719,0.830,0.668,0.740,(1.1148)+(0.0249)Ser+(-0.0000)Gln+(-0.0091)Ala+(-0.0852)Cit;0.703,0.732,0.758,0.773,0.758,0.756,0.718,0.751,(3.7907)+(-0.0380)Asn+(0.0077)Pro+(-0.1918)Met+(-0.0017)Lys;0.703,0.736,0.702,0.715,0.690,0.762,0.652,0.705,(0.1016)+(0.0387)Ser+(-0.1745)Asn+(0.0019)Gln+(0.0025)Pro;0.703,0.742,0.690,0.723,0.703,0.772,0.517,0.679,(1.
2774)+(0.0268)Ser+(-0.0661)Cit+(-0.0137)Arg+(-0.0430)Tyr;0.703,0.741,0.759,0.798,0.762,0.808,0.613,0.745,(3.4861)+(0.0195)Thr+(-0.0074)Val+(-0.2381)Met+(-0.0012)Lys;0.703,0.734,0.758,0.793,0.754,0.771,0.667,0.746,(1.5166)+(-0.0018)Gly+(0.0038)Gln+(0.0161)Thr+(-0.2867)Met;0.703,0.739,0.763,0.779,0.771,0.787,0.685,0.755,(4.6891)+(-0.0559)Cit+(0.0109)Pro+(-0.0079)Val+(-0.1896)Met;0.703,0.737,0.755,0.814,0.687,0.762,0.735,0.749,(1.2868)+(-0.0060)Ala+(-0.0544)Tyr+(-0.0121)Val+(0.0833)Phe;0.703,0.738,0.802,0.817,0.802,0.823,0.749,0.798,(5.4581)+(-0.0381)Asn+(-0.0044)Ala+(-0.0621)Cit+(-0.0921)Met;0.702,0.734,0.752,0.794,0.762,0.781,0.604,0.735,(1.7705)+(0.0045)Gln+(0.0201)Thr+(-0.0208)Arg+(-0.2752)Met;0.702,0.736,0.766,0.797,0.757,0.777,0.691,0.756,(1.6246)+(0.0051)Gln+(-0.0148)Arg+(0.0077)Pro+(-0.2495)Met;0.702,0.732,0.730,0.744,0.728,0.757,0.673,0.726,(2.3803)+(0.0002)Gly+(0.0067)Pro+(-0.2526)Met+(0.0183)Orn;0.702,0.736,0.592,0.624,0.537,0.656,0.572,0.597,(-2.7929)+(0.0242)Ser+(-0.0881)Tyr+(0.0273)Ile+(0.0400)Phe;0.702,0.734,0.689,0.705,0.707,0.751,0.567,0.682,(2.5854)+(-0.1060)Cit+(0.0031)Pro+(-0.0632)Tyr+(0.0456)Orn;0.702,0.738,0.682,0.672,0.584,0.817,0.812,0.721,(-2.4017)+(0.0242)Ser+(-0.0142)Ala+(-0.0056)Orn+(0.0496)Ile;0.702,0.735,0.767,0.785,0.746,0.810,0.732,0.768,(2.8233)+(-0.0052)Ala+(-0.1899)Met+(0.0251)Orn+(0.0026)Leu;0.702,0.734,0.700,0.716,0.717,0.758,0.582,0.693,(2.7322)+(-0.0015)Thr+(-0.1066)Cit+(-0.0581)Tyr+(0.0481)Orn;0.702,0.734,0.732,0.748,0.730,0.764,0.668,0.727,(2.5342)+(0.0072

)Pro+(-0.2443)Met+(0.0199)Orn+(-0.0042)Leu;0.702,0.742,0.748,0.779,0.714,0.855,0.657,0.751,(0.8395)+(0.0294)Ser+(-0.0066)Ala+(-0.0177)Arg+(-0.0112)Lys;0.702,0.738,0.785,0.809,0.765,0.755,0.783,0.778,(3.3086)+(-0.1267)Asn+(-0.0190)Val+(-0.0003)Lys+(0.0755)Phe;0.702,0.733,0.759,0.762,0.700,0.817,0.831,0.778,(0.6809)+(0.0016)Gln+(-0.0124)Ala+(-0.0232)Arg+(0.0462)Ile;0.702,0.733,0.749,0.751,0.691,0.815,0.820,0.769,(1.0962)+(0.0010)Gly+(-0.0122)Ala+(-0.0214)Arg+(0.0476)Ile;0.702,0.739,0.709,0.709,0.701,0.761,0.688,0.715,(3.5166)+(-0.0734)Cit+(-0.0462)Tyr+(-0.0170)Lys+(0.0516)Ile;0.702,0.738,0.725,0.734,0.751,0.735,0.637,0.714,(2.0638)+(-0.1257)Asn+(0.0060)Gly+(-0.0834)Cit+(0.0508)Phe;0.702,0.733,0.710,0.729,0.622,0.782,0.788,0.730,(1.5890)+(-0.0121)Ala+(0.0079)Pro+(-0.0498)Tyr+(0.0453)Ile;0.702,0.737,0.781,0.784,0.767,0.826,0.766,0.786,(2.4904)+(-0.0093)Ala+(-0.0805)Cit+(-0.0120)Lys+(0.0606)Phe;0.702,0.735,0.607,0.564,0.606,0.736,0.632,0.635,(-2.5075)+(0.0341)Ser+(-0.0347)Lys+(0.0404)Ile+(0.0184)Phe;0.702,0.733,0.738,0.753,0.719,0.835,0.668,0.744,(1.3595)+(0.0245)Ser+(-0.0083)Ala+(-0.0812)Cit+(-0.0028)Val;0.702,0.737,0.747,0.791,0.725,0.700,0.708,0.731,(2.7860)+(-0.0894)Asn+(-0.0105)Arg+(-0.0607)Tyr+(0.0698)Phe;0.701,0.731,0.750,0.774,0.745,0.762,0.686,0.742,(3.7519)+(-0.0545)Asn+(-0.0199)Tyr+(-0.1414)Met+(0.0273)Orn;0.701,0.736,0.724,0.747,0.733,0.750,0.626,0.714,(2.4802)+(0.0158)Thr+(0.0071)Pro+(-0.2909)Met+(0.0001)Leu;0.701,0.731,0.764,0.793,0.714,0.799,0.768,0.768,(4.5957)+(-0.0753)Asn+(-0.0084)Ala+(0.0126)Pro+(-0.0324)Tyr;0.701,0.738,0.776,0.787,0.777,0.753,0.765,0.770,(0.9640)+(-0.1490)Asn+(0.0070)Gln+(-0.0862)Cit+(0.0400)Phe;0.701,0.734,0.764,0.785,0.788,0.782,0.649,0.751,(4.6897)+(-0.0462)Asn+(0.0036)Gly+(-0.0652)Cit+(-0.1323)Met;0.701,0.739,0.787,0.809,0.790,0.825,0.694,0.779,(4.4840)+(0.0027)Gly+(-0.0046)Ala+(-0.0686)Cit+(-0.1320)Met;0.701,0.735,0.754,0.762,0.773,0.770,0.681,0.746,(4.1888)+(-0.

0627)Cit+(0.0086)Pro+(-0.2032)Met+(-0.0016)Lys;0.701,0.734,0.769,0.794,0.753,0.802,0.714,0.766,(4.6572)+(-0.1165)Asn+(0.0002)Gly+(-0.0166)Val+(0.0368)Orn;0.701,0.733,0.792,0.805,0.765,0.800,0.810,0.795,(2.6520)+(-0.0916)Asn+(-0.0082)Ala+(-0.0105)Arg+(0.0539)Phe;0.701,0.741,0.783,0.792,0.749,0.803,0.816,0.790,(2.3659)+(-0.1214)Asn+(0.0096)Thr+(-0.0091)Ala+(0.0507)Phe;0.701,0.734,0.777,0.798,0.786,0.783,0.699,0.766,(1.9290)+(0.0061)Gln+(-0.0747)Cit+(-0.2265)Met+(0.0049)Leu;0.701,0.735,0.800,0.821,0.786,0.823,0.756,0.797,(5.6357)+(-0.0618)Asn+(-0.0054)Ala+(-0.0642)Cit+(-0.0155)Tyr;0.701,0.731,0.760,0.775,0.763,0.775,0.702,0.754,(3.5581)+(-0.0526)Asn+(-0.1680)Met+(0.0262)Orn+(-0.0039)Leu;0.701,0.732,0.753,0.754,0.696,0.816,0.828,0.773,(1.2804)+(-0.0003)Thr+(-0.0122)Ala+(-0.0206)Arg+(0.0471)Ile;0.701,0.734,0.723,0.765,0.695,0.689,0.693,0.711,(2.3676)+(-0.1074)Asn+(-0.0671)Tyr+(0.0205)Orn+(0.0618)Phe;0.701,0.734,0.740,0.761,0.673,0.793,0.786,0.753,(2.3152)+(-0.0098)Ala+(-0.0165)Arg+(-0.0406)Tyr+(0.0531)Ile;0.701,0.734,0.767,0.773,0.729,0.821,0.795,0.780,(3.4699)+(-0.0983)Asn+(-0.0101)Ala+(0.0092)Pro+(0.0198)Orn;0.701,0.735,0.699,0.718,0.715,0.758,0.574,0.691,(2.3363)+(0.0009)Gln+(-0.1079)Cit+(-0.0603)Tyr+(0.0461)Orn;0.701,0.731,0.752,0.749,0.727,0.803,0.778,0.764,(1.7566)+(-0.0137)Ala+(-0.0891)Cit+(0.0105)Pro+(0.0402)Phe;0.701,0.738,0.756,0.798,0.768,0.807,0.581,0.738,(4.0221)+(0.0237)Thr+(-0.0162)Arg+(-0.0076)Val+(-0.2289)Met;0.700,0.733,0.754,0.791,0.751,0.789,0.638,0.742,(1.7477)+(0.0038)Gln+(0.0166)Thr+(-0.2652)Met+(-0.0065)Lys;0.700,0.740,0.789,0.798,0.790,0.809,0.746,0.786,(4.4847)+(-0.0056)Ala+(-0.0675)Cit+(-0.1449)Met+(0.0101)Leu;0.700,0.736,0.831,0.869,0.784,0.860,0.806,0.830,(3.4300)+(-0.1171)Asn+(0.0057)Gln+(-0.0040)Ala+(-0.0101)Val;0.700,0.736,0.792,0.821,0.792,0.811,0.702,0.782,(2.4860)+(0.0061)Gln+(-0.0686)Cit+(-0.0043)Val+(-0.1971)Met;0.700,0.733,0.778,0.804,0.786,0.794,0.682,0.766,(2.0750)

+(0.0009)Gly+(0.0059)Gln+(-0.0743)Cit+(-0.2139)Met;0.700,0.732,0.798,0.818,0.765,0.797,0.810,0.798,(2.6642)+(-0.1036)Asn+(-0.0072)Ala+(-0.0124)Leu+(0.0649)Phe;0.700,0.733,0.770,0.783,0.782,0.746,0.727,0.760,(3.1716)+(-0.1069)Asn+(-0.0685)Cit+(-0.0174)Leu+(0.0648)Phe;0.700,0.729,0.787,0.811,0.739,0.837,0.789,0.794,(5.1677)+(-0.0899)Asn+(-0.0072)Ala+(0.0131)Pro+(-0.0117)Val;0.700,0.738,0.710,0.723,0.651,0.833,0.710,0.729,(0.2996)+(0.0283)Ser+(-0.0104)Ala+(0.0112)Pro+(-0.0174)Lys;0.700,0.733,0.751,0.775,0.744,0.746,0.709,0.744,(4.0468)+(-0.0420)Asn+(0.0086)Pro+(-0.0184)Tyr+(-0.1651)Met;0.700,0.735,0.772,0.797,0.767,0.812,0.687,0.766,(5.0149)+(-0.1012)Asn+(-0.0140)Arg+(-0.0164)Val+(0.0406)Orn;0.700,0.734,0.804,0.835,0.795,0.801,0.741,0.793,(2.1551)+(-0.0632)Asn+(0.0070)Gln+(-0.0114)Arg+(-0.1734)Met;0.700,0.733,0.797,0.807,0.786,0.824,0.775,0.798,(5.1479)+(-0.0680)Asn+(-0.0068)Ala+(-0.0692)Cit+(0.0036)Leu;0.700,0.729,0.732,0.755,0.741,0.763,0.632,0.723,(2.4305)+(-0.0011)Gly+(0.0146)Thr+(-0.2705)Met+(0.0159)Orn;0.700,0.734,0.721,0.765,0.691,0.668,0.708,0.708,(2.5130)+(-0.1025)Asn+(0.0046)Pro+(-0.0676)Tyr+(0.0653)Phe;0.700,0.734,0.810,0.859,0.770,0.818,0.759,0.801,(3.6054)+(-0.1182)Asn+(0.0061)Gln+(-0.0247)Tyr+(-0.0107)Val;0.700,0.734,0.728,0.755,0.749,0.770,0.579,0.713,(2.9186)+(0.0182)Thr+(-0.0185)Arg+(-0.2565)Met+(0.0188)Orn;0.700,0.735,0.761,0.787,0.747,0.775,0.708,0.754,(1.6488)+(0.0044)Gln+(0.0076)Pro+(-0.2491)Met+(-0.0052)Lys;0.699,0.737,0.676,0.698,0.685,0.709,0.575,0.667,(1.1239)+(-0.1067)Cit+(-0.0786)Tyr+(0.0420)Orn+(0.0527)Phe;0.699,0.730,0.731,0.777,0.702,0.685,0.699,0.716,(2.3407)+(-0.1051)Asn+(0.0015)Gly+(-0.0620)Tyr+(0.0694)Phe;0.699,0.732,0.810,0.841,0.790,0.824,0.758,0.803,(3.5503)+(-0.1259)Asn+(0.0076)Gln+(-0.0683)Cit+(-0.0102)Val;0.699,0.735,0.744,0.766,0.733,0.764,0.693,0.739,(1.2611)+(0.0033)Gln+(0.0066)Pro+(-0.2720)Met+(0.0138)Orn;0.699,0.734,0.743,0.776,0.741,0.775,0.636,0.732,(1.311

0)+(0.0029)Gln+(0.0126)Thr+(-0.2845)Met+(0.0121)Orn;0.699,0.737,0.737,0.717,0.755,0.732,0.753,0.739,(2.5753)+(-0.1108)Asn+(-0.0765)Cit+(0.0223)Ile+(0.0256)Phe;0.699,0.734,0.787,0.812,0.792,0.805,0.700,0.777,(2.3171)+(0.0064)Gln+(-0.0726)Cit+(-0.1993)Met+(-0.0038)Lys;0.699,0.736,0.676,0.707,0.681,0.754,0.531,0.668,(1.0470)+(0.0249)Ser+(-0.0002)Gln+(-0.0781)Cit+(-0.0475)Tyr;0.699,0.732,0.773,0.776,0.756,0.831,0.756,0.780,(4.1823)+(-0.0112)Ala+(-0.0796)Cit+(0.0127)Pro+(-0.0080)Lys;0.699,0.730,0.728,0.751,0.738,0.775,0.613,0.719,(2.7821)+(0.0148)Thr+(-0.2436)Met+(0.0202)Orn+(-0.0080)Lys;0.699,0.729,0.791,0.808,0.742,0.832,0.818,0.800,(2.6095)+(-0.1119)Asn+(0.0041)Gln+(-0.0096)Ala+(0.0094)Pro;0.699,0.734,0.748,0.782,0.748,0.764,0.644,0.734,(1.2615)+(0.0034)Gln+(0.0154)Thr+(-0.2946)Met+(0.0031)Leu;0.699,0.735,0.722,0.746,0.713,0.748,0.656,0.716,(2.6978)+(0.0077)Pro+(-0.0205)Tyr+(-0.2213)Met+(0.0206)Orn;0.699,0.735,0.670,0.644,0.702,0.764,0.602,0.678,(-1.1871)+(0.0313)Ser+(-0.0240)Thr+(-0.1084)Cit+(0.0382)Orn;0.699,0.736,0.594,0.541,0.605,0.733,0.613,0.623,(-1.1136)+(0.0374)Ser+(-0.0031)Gln+(-0.0309)Lys+(0.0471)Ile;0.699,0.736,0.749,0.763,0.764,0.762,0.674,0.741,(4.2871)+(-0.0622)Cit+(0.0093)Pro+(-0.0135)Tyr+(-0.1884)Met;0.699,0.731,0.806,0.825,0.792,0.839,0.762,0.804,(5.7829)+(-0.0699)Asn+(-0.0049)Ala+(-0.0607)Cit+(-0.0051)Val;0.699,0.727,0.749,0.765,0.752,0.781,0.678,0.744,(2.9900)+(-0.0004)Gly+(-0.2015)Met+(0.0271)Orn+(-0.0070)Lys;0.698,0.734,0.759,0.776,0.762,0.755,0.709,0.751,(3.8709)+(-0.0348)Asn+(-0.0066)Arg+(0.0078)Pro+(-0.1909)Met;0.698,0.729,0.754,0.766,0.712,0.774,0.797,0.762,(5.3140)+(-0.1267)Asn+(0.0073)Pro+(-0.0409)Val+(0.0523)Leu;0.698,0.735,0.752,0.760,0.770,0.765,0.682,0.744,(4.0242)+(-0.0646)Cit+(0.0016)Arg+(0.0085)Pro+(-0.2116)Met;0.698,0.736,0.750,0.777,0.745,0.749,0.692,0.741,(5.0808)+(-0.0764)Asn+(-0.0628)Cit+(0.0068)Pro+(-0.0396)Tyr;0.698,0.731,0.737,0.772,0.756,0.762,0.588,0.720,(3.

3620)+(-0.0006)Gly+(0.0227)Thr+(-0.0163)Arg+(-0.2560)Met;0.698,0.732,0.803,0.816,0.791,0.835,0.769,0.803,(5.4335)+(-0.0638)Asn+(-0.0061)Ala+(-0.0669)Cit+(-0.0020)Lys;0.698,0.738,0.765,0.792,0.751,0.802,0.695,0.760,(4.7087)+(-0.1303)Asn+(0.0080)Thr+(-0.0174)Val+(0.0336)Orn;0.698,0.731,0.805,0.841,0.772,0.831,0.763,0.802,(1.9833)+(0.0047)Gln+(-0.0039)Ala+(-0.1895)Met+(-0.0033)Lys;0.698,0.732,0.747,0.781,0.725,0.755,0.695,0.739,(1.6401)+(0.0040)Gln+(0.0083)Pro+(-0.0154)Tyr+(-0.2429)Met;0.698,0.730,0.764,0.781,0.721,0.794,0.786,0.771,(5.1113)+(-0.1243)Asn+(0.0019)Gly+(-0.0397)Val+(0.0562)Leu;0.698,0.732,0.732,0.765,0.753,0.756,0.584,0.715,(3.0916)+(0.0226)Thr+(-0.0165)Arg+(-0.2670)Met+(0.0038)Leu;0.698,0.733,0.770,0.793,0.755,0.805,0.713,0.767,(4.7284)+(-0.1117)Asn+(-0.0160)Val+(0.0376)Orn+(-0.0022)Lys;0.698,0.731,0.724,0.740,0.688,0.743,0.742,0.728,(3.6885)+(-0.0680)Asn+(-0.0456)Tyr+(-0.0118)Lys+(0.0432)Ile;0.698,0.730,0.757,0.774,0.756,0.753,0.715,0.749,(3.8064)+(-0.0406)Asn+(0.0080

)Pro+(-0.1905)Met+(-0.0026)Leu;0.698,0.734,0.608,0.563,0.614,0.739,0.620,0.634,(-1.9449)+(0.0325)Ser+(0.0058)Orn+(-0.0335)Lys+(0.0430)Ile;0.698,0.732,0.718,0.752,0.678,0.686,0.733,0.712,(2.2270)+(-0.0996)Asn+(-0.0672)Tyr+(0.0245)Ile+(0.0529)Phe;0.698,0.730,0.719,0.711,0.633,0.805,0.855,0.751,(0.4410)+(-0.0009)Gln+(-0.0147)Ala+(0.0058)Pro+(0.0398)Ile;0.698,0.733,0.753,0.793,0.700,0.775,0.742,0.752,(1.7339)+(-0.0070)Ala+(-0.0513)Tyr+(-0.0117)Lys+(0.0723)Phe;0.698,0.732,0.767,0.798,0.731,0.799,0.740,0.767,(4.2245)+(-0.0858)Asn+(-0.0058)Ala+(-0.0325)Tyr+(0.0302)Orn;0.698,0.730,0.753,0.782,0.739,0.773,0.689,0.746,(3.7967)+(0.0004)Gly+(0.0112)Pro+(-0.0101)Val+(-0.2094)Met;0.698,0.728,0.751,0.756,0.731,0.824,0.727,0.760,(2.9376)+(0.0025)Gly+(-0.0126)Ala+(-0.0894)Cit+(0.0126)Pro;0.698,0.734,0.748,0.792,0.741,0.772,0.628,0.733,(1.6215)+(0.0034)Gln+(0.0159)Thr+(-0.0116)Tyr+(-0.2676)Met;0.698,0.

738,0.750,0.783,0.701,0.855,0.687,0.756,(0.1509)+(0.0295)Ser+(-0.0069)Thr+(-0.0076)Ala+(-0.0209)Arg;0.698,0.732,0.765,0.794,0.764,0.794,0.671,0.756,(1.5843)+(0.0044)Gln+(-0.0174)Arg+(-0.2297)Met+(0.0214)Orn;0.698,0.738,0.640,0.689,0.586,0.679,0.596,0.637,(-2.4627)+(0.0309)Ser+(-0.0137)Thr+(-0.0723)Tyr+(0.0592)Phe;0.697,0.732,0.783,0.809,0.790,0.795,0.691,0.771,(2.1545)+(0.0063)Gln+(-0.0704)Cit+(-0.0039)Arg+(-0.2097)Met;0.697,0.735,0.679,0.712,0.682,0.758,0.531,0.671,(1.0738)+(0.0245)Ser+(-0.0780)Cit+(-0.0468)Tyr+(-0.0013)Leu;0.697,0.734,0.696,0.731,0.691,0.783,0.550,0.689,(1.5853)+(0.0236)Ser+(-0.0721)Cit+(-0.0393)Tyr+(-0.0058)Val;0.697,0.728,0.743,0.763,0.742,0.754,0.683,0.735,(3.0531)+(0.0008)Gly+(0.0082)Pro+(-0.2284)Met+(-0.0031)Lys;0.697,0.736,0.751,0.761,0.698,0.843,0.769,0.768,(0.9177)+(0.0382)Ser+(-0.0080)Gly+(-0.0068)Ala+(-0.0160)Lys;0.697,0.730,0.731,0.754,0.744,0.758,0.624,0.720,(2.8565)+(0.0200)Thr+(-0.2644)Met+(-0.0075)Lys+(0.0075)Leu;0.697,0.731,0.729,0.753,0.739,0.762,0.619,0.718,(2.2697)+(0.0141)Thr+(-0.2727)Met+(0.0152)Orn+(0.0008)Leu;0.697,0.730,0.763,0.788,0.754,0.797,0.689,0.757,(1.7060)+(0.0037)Gln+(-0.2221)Met+(0.0225)Orn+(-0.0081)Lys;0.697,0.736,0.730,0.712,0.751,0.741,0.726,0.732,(3.2028)+(-0.1169)Asn+(0.0078)Thr+(-0.0784)Cit+(0.0272)Ile;0.697,0.732,0.741,0.726,0.751,0.751,0.749,0.744,(3.2707)+(-0.0999)Asn+(-0.0751)Cit+(-0.0017)Pro+(0.0310)Ile;0.697,0.729,0.793,0.821,0.775,0.814,0.743,0.788,(4.1866)+(-0.0455)Asn+(0.0013)Gly+(-0.0038)Ala+(-0.1247)Met;0.697,0.722,0.763,0.768,0.738,0.821,0.761,0.772,(2.3318)+(0.0023)Gln+(-0.0128)Ala+(-0.0898)Cit+(0.0117)Pro;0.697,0.733,0.810,0.851,0.775,0.837,0.758,0.805,(2.2070)+(0.0046)Gln+(-0.0031)Ala+(-0.0052)Val+(-0.1874)Met;0.697,0.732,0.593,0.632,0.562,0.649,0.515,0.590,(-1.4186)+(0.0302)Ser+(-0.0039)Gln+(-0.0804)Tyr+(0.0632)Phe;0.697,0.728,0.746,0.761,0.751,0.780,0.675,0.742,(2.9029)+(-0.2050)Met+(0.0264)Orn+(-0.0075)Lys+(0.0020)Leu;0.697

,0.727,0.722,0.745,0.632,0.790,0.796,0.741,(1.2844)+(0.0006)Gln+(-0.0106)Ala+(-0.0471)Tyr+(0.0514)Ile;0.697,0.731,0.783,0.792,0.759,0.832,0.778,0.790,(3.9974)+(-0.0821)Asn+(-0.0068)Ala+(0.0299)Orn+(-0.0088)Lys;0.697,0.732,0.710,0.760,0.687,0.658,0.663,0.692,(2.4224)+(-0.1284)Asn+(0.0157)Thr+(-0.0733)Tyr+(0.0715)Phe;0.697,0.725,0.772,0.787,0.729,0.822,0.790,0.782,(3.6710)+(-0.0926)Asn+(0.0015)Gly+(-0.0097)Ala+(0.0107)Pro;0.697,0.733,0.764,0.812,0.743,0.788,0.665,0.752,(5.4260)+(-0.1132)Asn+(0.0164)Thr+(-0.0290)Tyr+(-0.0113)Val;0.697,0.730,0.735,0.762,0.745,0.752,0.632,0.723,(2.5804)+(-0.0007)Gly+(0.0184)Thr+(-0.2787)Met+(0.0035)Leu;0.697,0.730,0.799,0.810,0.785,0.828,0.777,0.800,(5.2461)+(-0.0720)Asn+(-0.0065)Ala+(-0.0717)Cit+(0.0051)Arg;0.697,0.732,0.597,0.621,0.546,0.686,0.575,0.607,(-1.7406)+(0.0231)Ser+(-0.0736)Tyr+(-0.0008)Orn+(0.0365)Ile;0.697,0.726,0.767,0.777,0.738,0.805,0.774,0.774,(0.7536)+(0.0024)Gln+(-0.0114)Ala+(-0.0906)Cit+(0.0460)Phe;0.697,0.734,0.714,0.747,0.686,0.764,0.650,0.712,(1.1805)+(0.0400)Ser+(-0.0096)Gly+(-0.0235)Arg+(-0.0519)Tyr;0.697,0.728,0.755,0.783,0.740,0.757,0.714,0.748,(1.3947)+(-0.0006)Gly+(0.0042)Gln+(0.0074)Pro+(-0.2669)Met;0.697,0.735,0.724,0.703,0.779,0.816,0.600,0.724,(3.1016)+(-0.1123)Cit+(0.0556)Orn+(-0.0206)Lys+(-0.0053)Leu;0.696,0.732,0.751,0.767,0.761,0.786,0.660,0.744,(3.2346)+(-0.0114)Arg+(-0.1918)Met+(0.0291)Orn+(-0.0052)Lys;0.696,0.731,0.797,0.830,0.760,0.821,0.770,0.795,(1.6088)+(0.0044)Gln+(-0.0047)Ala+(-0.2119)Met+(0.0064)Leu;0.696,0.732,0.719,0.692,0.778,0.814,0.602,0.721,(2.9935)+(-0.1130)Cit+(-0.0006)Pro+(0.0548)Orn+(-0.0224)Lys;0.696,0.731,0.737,0.771,0.756,0.771,0.580,0.720,(3.4396)+(0.0228)Thr+(-0.0153)Arg+(-0.2473)Met+(-0.0027)Lys;0.696,0.733,0.738,0.771,0.699,0.849,0.656,0.744,(0.3380)+(0.0273)Ser+(-0.0006)Gln+(-0.0081)Ala+(-0.0237)Arg;0.696,0.736,0.740,0.768,0.675,0.817,0.742,0.751,(0.9775)+(0.0346)Ser+(-0.0089)Gly+(-0.0062)Ala+(-0.0420)Tyr;

0.696,0.726,0.725,0.746,0.639,0.787,0.805,0.744,(1.7754)+(-0.0011)Gly+(-0.0104)Ala+(-0.0468)Tyr+(0.0515)Ile;0.696,0.729,0.805,0.839,0.770,0.826,0.773,0.802,(1.8828)+(-0.0009)Gly+(0.0047)Gln+(-0.0041)Ala+(-0.1993)Met;0.696,0.732,0.709,0.683,0.771,0.812,0.575,0.710,(2.7798)+(0.0013)Gly+(-0.1147)Cit+(0.0542)Orn+(-0.0227)Lys;0.696,0.728,0.747,0.765,0.759,0.775,0.655,0.739,(2.9641)+(0.0001)Gly+(-0.0133)Arg+(-0.2081)Met+(0.0261)Orn;0.696,0.729,0.742,0.770,0.751,0.771,0.626,0.730,(3.1678)+(-0.0009)Gly+(0.0196)Thr+(-0.2506)Met+(-0.0051)Lys;0.696,0.736,0.647,0.715,0.602,0.671,0.543,0.633,(-1.8735)+(0.0229)Ser+(-0.0781)Tyr+(-0.0185)Leu+(0.0794)Phe;0.696,0.732,0.737,0.774,0.741,0.759,0.619,0.723,(3.0929)+(-0.0014)Gly+(0.0195)Thr+(-0.0138)Tyr+(-0.2467)Met;0.696,0.731,0.736,0.773,0.741,0.771,0.600,0.721,(3.2246)+(0.0197)Thr+(-0.0112)Tyr+(-0.2345)Met+(-0.0048)Lys;0.696,0.730,0.730,0.733,0.760,0.808,0.601,0.725,(2.7400)+(-0.0899)Cit+(-0.0153)Arg+(-0.0152)Val+(0.0514)Orn;0.696,0.734,0.753,0.785,0.737,0.773,0.688,0.746,(4.0046)+(0.0115)Pro+(-0.0099)Tyr+(-0.0098)Val+(-0.1938)Met;0.696,0.731,0.786,0.798,0.766,0.828,0.765,0.790,(3.8299)+(-0.0834)Asn+(-0.0072)Ala+(-0.0132)Arg+(0.0283)Orn;0.696,0.730,0.723,0.772,0.699,0.713,0.651,0.708,(1.8585)+(-0.0647)Cit+(-0.0638)Tyr+(-0.0125)Val+(0.0859)Phe;0.696,0.732,0.731,0.772,0.747,0.761,0.566,0.711,(3.5076)+(0.0232)Thr+(-0.0166)Arg+(-0.0124)Tyr+(-0.2362)Met;0.696,0.729,0.753,0.784,0.738,0.764,0.692,0.745,(3.7128)+(0.0113)Pro+(-0.0109)Val+(-0.2175)Met+(0.0028)Lys;0.696,0.729,0.650,0.696,0.641,0.744,0.476,0.639,(0.2457)+(0.0276)Ser+(-0.0278)Arg+(0.0069)Pro+(-0.0549)Tyr;0.696,0.733,0.762,0.787,0.740,0.805,0.713,0.761,(3.0253)+(-0.0048)Ala+(-0.0093)Tyr+(-0.1715)Met+(0.0271)Orn;0.696,0.732,0.621,0.582,0.617,0.746,0.641,0.647,(-1.7778)+(0.0330)Ser+(-0.0043)Pro+(-0.0324)Lys+(0.0507)Ile;0.696,0.732,0.596,0.620,0.545,0.685,0.572,0.606,(-1.7473)+(0.0230)Ser+(0.0000)Pro+(-0.0738)Tyr+(0.03

61)Ile;0.696,0.726,0.766,0.782,0.739,0.798,0.757,0.769,(1.8000)+(-0.0091)Ala+(-0.0757)Cit+(-0.0090)Val+(0.0624)Phe;0.695,0.731,0.769,0.793,0.721,0.788,0.790,0.773,(5.5996)+(-0.1089)Asn+(-0.0177)Tyr+(-0.0367)Val+(0.0537)Leu;0.695,0.721,0.767,0.776,0.743,0.827,0.751,0.774,(3.7803)+(-0.0110)Ala+(-0.0766)Cit+(0.0133)Pro+(-0.0064)Val;0.695,0.729,0.735,0.731,0.651,0.805,0.868,0.764,(0.5979)+(-0.0090)Thr+(-0.0142)Ala+(0.0065)Pro+(0.0414)Ile;0.695,0.729,0.693,0.731,0.669,0.705,0.632,0.684,(1.3356)+(-0.0685)Tyr+(0.0251)Orn+(-0.0199)Lys+(0.0611)Phe;0.695,0.729,0.716,0.737,0.630,0.787,0.786,0.735,(1.3771)+(-0.0106)Ala+(-0.0483)Tyr+(0.0090)Orn+(0.0487)Ile;0.695,0.736,0.668,0.692,0.650,0.676,0.640,0.664,(1.1048)+(-0.0809)Cit+(-0.0763)Tyr+(0.0315)Ile+(0.0445)Phe;0.695,0.729,0.691,0.727,0.677,0.762,0.574,0.685,(-1.3994)+(0.0280)Ser+(-0.0333)Arg+(-0.0185)Val+(0.0578)Phe;0.695,0.729,0.754,0.782,0.740,0.760,0.705,0.747,(1.4188)+(0.0041)Gln+(0.0077)Pro+(-0.2643)Met+(-0.0015)Leu;0.695,0.729,0.772,0.780,0.749,0.794,0.784,0.777,(5.8282)+(-0.1081)Asn+(-0.0447)Cit+(-0.0345)Val+(0.0497)Leu;0.695,0.734,0.798,0.816,0.798,0.824,0.730,0.792,(4.9148)+(-0.0042)Ala+(-0.0622)Cit+(-0.0018)Val+(-0.1248)Met;0.695,0.732,0.718,0.689,0.777,0.813,0.602,0.720,(2.9703)+(-0.1122)Cit+(-0.0006)Arg+(0.0543)Orn+(-0.0224)Lys;0.695,0.734,0.754,0.797,0.715,0.866,0.640,0.754,(1.0703)+(0.0257)Ser+(-0.0062)Ala+(-0.0230)Arg+(-0.0076)Val;0.695,0.731,0.806,0.846,0.779,0.828,0.743,0.799,(2.0120)+(0.0054)Gln+(-0.0039)Ala+(-0.0129)Arg+(-0.1855)Met;0.694,0.728,0.748,0.763,0.774,0.772,0.637,0.737,(3.6913)+(0.0030)Gly+(-0.0682)Cit+(-0.1939)Met+(0.0062)Leu;0.694,0.727,0.749,0.760,0.726,0.802,0.727,0.754,(1.0736)+(0.0030)Gly+(-0.0112)Ala+(-0.0909)Cit+(0.0519)Phe;0.694,0.733,0.781,0.809,0.785,0.791,0.692,0.769,(2.2103)+(0.0061)Gln+(-0.0728)Cit+(-0.0052)Tyr+(-0.2043)Met;0.694,0.727,0.708,0.697,0.723,0.792,0.645,0.714,(1.2472)+(0.0379)Ser+(-0.0062)Gly+(-0.0717)Cit+

(-0.0197)Lys;0.694,0.727,0.723,0.719,0.636,0.805,0.859,0.755,(0.1780)+(-0.0007)Gly+(-0.0147)Ala+(0.0056)Pro+(0.0389)Ile;0.694,0.728,0.743,0.767,0.746,0.753,0.667,0.733,(3.1668)+(0.0011)Gly+(-0.0096)Arg+(0.0084)Pro+(-0.2256)Met;0.694,0.727,0.772,0.783,0.791,0.772,0.700,0.761,(4.8140)+(-0.0372)Asn+(-0.0604)Cit+(-0.1458)Met+(0.0035)Leu;0.694,0.724,0.757,0.757,0.739,0.818,0.751,0.766,(3.2101)+(0.0017)Thr+(-0.0126)Ala+(-0.0857)Cit+(0.0121)Pro;0.694,0.730,0.720,0.716,0.630,0.804,0.856,0.752,(-0.1877)+(-0.0150)Ala+(0.0054)Pro+(0.0377)Ile+(0.0066)Phe;0.694,0.733,0.756,0.792,0.759,0.776,0.644,0.743,(4.9089)+(-0.0811)Asn+(0.0030)Gly+(-0.0667)Cit+(-0.0271)Tyr;0.694,0.734,0.795,0.812,0.796,0.818,0.732,0.789,(4.7765)+(-0.0046)Ala+(-0.0643)Cit+(-0.1295)Met+(0.0004)Lys;0.694,0.730,0.772,0.782,0.733,0.823,0.792,0.782,(3.7733)+(-0.1025)Asn+(0.0071)Thr+(-0.0099)Ala+(0.0100)Pro;0.694,0.726,0.676,0.669,0.705,0.785,0.556,0.679,(0.7630)+(0.0305)Ser+(-0.0812)Cit+(0.0040)Pro+(-0.0208)Lys;0.694,0.727,0.767,0.776,0.746,0.803,0.759,0.771,(1.6736)+(-0.0102)Ala+(-0.0834)Cit+(-0.0065)Leu+(0.0557)Phe;0.694,0.726,0.702,0.692,0.712,0.785,0.648,0.709,(1.7358)+(-0.0988)Cit+(-0.0303)Val+(0.0489)Orn+(0.0282)Leu;0.694,0.733,0.761,0.758,0.780,0.756,0.734,0.757,(3.3242)+(-0.0892)Asn+(-0.0703)Cit+(-0.0111)Lys+(0.0519)Phe;0.694,0.728,0.735,0.763,0.727,0.741,0.673,0.726,(3.1319)+(0.0004)Gly+(0.0089)Pro+(-0.0153)Tyr+(-0.2157)Met;0.694,0.732,0.689,0.727,0.606,0.813,0.672,0.705,(0.3195)+(0.0221)Ser+(-0.0103)Ala+(0.0125)Pro+(-0.0443)Tyr;0.694,0.724,0.761,0.762,0.742,0.820,0.755,0.770,(3.3564)+(-0.0123)Ala+(-0.0839)Cit+(0.0124)Pro+(-0.0

013)Leu;0.694,0.725,0.764,0.791,0.750,0.782,0.709,0.758,(1.3845)+(-0.0012)Gly+(0.0037)Gln+(-0.2483)Met+(0.0179)Orn;0.693,0.732,0.718,0.690,0.777,0.813,0.603,0.721,(2.9694)+(-0.0004)Thr+(-0.1126)Cit+(0.0545)Orn+(-0.0224)Lys;0.693,0.726,0.758,0.765,0.736,0.802,0.756,0.765,(1.51

40)+(0.0028)Thr+(-0.0113)Ala+(-0.0871)Cit+(0.0480)Phe;0.693,0.732,0.726,0.760,0.734,0.744,0.604,0.710,(2.6845)+(0.0189)Thr+(-0.0134)Tyr+(-0.2611)Met+(0.0046)Leu;0.693,0.728,0.799,0.837,0.761,0.825,0.758,0.795,(1.8681)+(0.0045)Gln+(-0.0040)Ala+(-0.0029)Tyr+(-0.1955)Met;0.693,0.725,0.759,0.789,0.747,0.784,0.689,0.752,(1.3395)+(0.0034)Gln+(-0.2472)Met+(0.0179)Orn+(-0.0007)Leu;0.693,0.732,0.715,0.776,0.651,0.709,0.691,0.707,(1.1088)+(-0.0657)Tyr+(-0.0249)Val+(0.0203)Leu+(0.0715)Phe;0.693,0.722,0.771,0.797,0.771,0.773,0.703,0.761,(3.8558)+(-0.0458)Asn+(0.0014)Gly+(-0.1586)Met+(-0.0006)Lys;0.693,0.732,0.738,0.722,0.751,0.749,0.746,0.742,(3.2651)+(-0.1000)Asn+(-0.0741)Cit+(-0.0013)Arg+(0.0287)Ile;0.693,0.728,0.746,0.807,0.679,0.753,0.719,0.739,(0.9932)+(-0.0071)Ala+(-0.0576)Tyr+(-0.0116)Leu+(0.0775)Phe;0.693,0.726,0.720,0.742,0.632,0.786,0.795,0.739,(1.5192)+(0.0003)Thr+(-0.0106)Ala+(-0.0466)Tyr+(0.0518)Ile;0.693,0.724,0.806,0.839,0.784,0.822,0.754,0.800,(5.0130)+(-0.0513)Asn+(-0.0026)Ala+(-0.0063)Val+(-0.0987)Met;0.693,0.734,0.796,0.812,0.797,0.819,0.734,0.791,(4.7807)+(-0.0046)Ala+(-0.0644)Cit+(0.0015)Tyr+(-0.1303)Met;0.693,0.727,0.739,0.761,0.738,0.746,0.678,0.731,(2.8417)+(0.0008)Gly+(0.0082)Pro+(-0.2392)Met+(-0.0009)Leu;0.693,0.732,0.798,0.837,0.769,0.816,0.745,0.792,(3.5323)+(-0.1484)Asn+(0.0051)Gln+(0.0105)Thr+(-0.0146)Val;0.693,0.731,0.684,0.705,0.664,0.721,0.645,0.684,(1.3822)+(0.0022)Gln+(-0.0834)Cit+(-0.0648)Tyr+(0.0387)Ile;0.693,0.725,0.741,0.765,0.738,0.774,0.658,0.734,(3.1369)+(-0.0139)Tyr+(-0.1792)Met+(0.0286)Orn+(-0.0068)Lys;0.693,0.731,0.721,0.756,0.723,0.758,0.597,0.709,(2.5433)+(0.0145)Thr+(-0.0161)Tyr+(-0.2457)Met+(0.0175)Orn;0.693,0.727,0.780,0.791,0.742,0.827,0.800,0.790,(4.2127)+(-0.0786)Asn+(-0.0093)Ala+(0.0109)Pro+(-0.0054)Lys;0.693,0.728,0.768,0.793,0.784,0.797,0.646,0.755,(4.3700)+(0.0022)Gly+(-0.0613)Cit+(-0.0040)Val+(-0.1608)Met;0.693,0.724,0.781,0.796,0.743,0.818,0.791,0.787,(

4.0848)+(-0.0783)Asn+(-0.0094)Ala+(-0.0091)Arg+(0.0108)Pro;0.693,0.728,0.719,0.716,0.630,0.805,0.855,0.751,(0.0280)+(-0.0148)Ala+(0.0055)Pro+(0.0002)Orn+(0.0392)Ile;0.692,0.728,0.795,0.815,0.777,0.809,0.770,0.793,(4.0896)+(-0.0399)Asn+(-0.0043)Ala+(-0.1370)Met+(0.0052)Leu;0.692,0.728,0.808,0.853,0.754,0.827,0.788,0.806,(2.9876)+(-0.1044)Asn+(0.0056)Gln+(-0.0051)Ala+(-0.0280)Tyr;0.692,0.731,0.682,0.679,0.706,0.797,0.556,0.684,(0.3424)+(0.0169)Ser+(-0.1044)Cit+(-0.0146)Val+(0.0424)Orn;0.692,0.726,0.775,0.789,0.793,0.774,0.698,0.763,(4.9771)+(-0.0394)Asn+(-0.0594)Cit+(-0.1357)Met+(0.0003)Lys;0.692,0.732,0.741,0.766,0.733,0.750,0.684,0.733,(3.4012)+(0.0090)Pro+(-0.0150)Tyr+(-0.2044)Met+(-0.0026)Lys;0.692,0.725,0.797,0.822,0.779,0.808,0.762,0.793,(4.3157)+(-0.0432)Asn+(-0.0039)Ala+(-0.1255)Met+(0.0005)Lys;0.692,0.732,0.759,0.790,0.750,0.777,0.686,0.751,(4.2149)+(-0.0083)Arg+(0.0113)Pro+(-0.0100)Val+(-0.1942)Met;0.692,0.730,0.749,0.769,0.751,0.754,0.686,0.740,(3.4145)+(-0.0084)Arg+(0.0083)Pro+(-0.2187)Met+(-0.0015)Lys;0.692,0.727,0.711,0.759,0.629,0.741,0.734,0.716,(0.9367)+(-0.0109)Ala+(0.0106)Pro+(-0.0621)Tyr+(0.0576)Phe;0.692,0.734,0.793,0.809,0.792,0.820,0.736,0.789,(4.6859)+(-0.0047)Ala+(-0.0679)Cit+(0.0044)Arg+(-0.1330)Met;0.692,0.727,0.719,0.788,0.663,0.699,0.667,0.704,(0.8062)+(0.0005)Gln+(-0.0677)Tyr+(-0.0155)Val+(0.0798)Phe;0.692,0.726,0.775,0.793,0.790,0.776,0.696,0.764,(5.1500)+(-0.0405)Asn+(-0.0587)Cit+(-0.0076)Tyr+(-0.1197)Met;0.692,0.727,0.708,0.779,0.657,0.687,0.643,0.691,(0.8218)+(0.0040)Thr+(-0.0705)Tyr+(-0.0159)Val+(0.0811)Phe;0.692,0.728,0.788,0.809,0.796,0.800,0.710,0.779,(5.6175)+(-0.0470)Asn+(-0.0536)Cit+(-0.0057)Val+(-0.1046)Met;0.692,0.723,0.763,0.764,0.745,0.819,0.753,0.770,(3.4209)+(-0.0122)Ala+(-0.0809)Cit+(-0.0036)Arg+(0.0123)Pro;0.692,0.727,0.798,0.817,0.758,0.834,0.803,0.803,(2.4292)+(-0.1183)Asn+(0.0040)Gln+(-0.0076)Ala+(0.0201)Orn;0.692,0.727,0.767,0.775,0.746,0.807,0.762,

0.772,(1.7604)+(-0.0106)Ala+(-0.0801)Cit+(-0.0053)Arg+(0.0502)Phe;0.692,0.727,0.746,0.764,0.746,0.752,0.696,0.740,(3.1679)+(0.0081)Pro+(-0.2269)Met+(-0.0033)Lys+(0.0005)Leu;0.692,0.723,0.726,0.724,0.746,0.797,0.640,0.726,(2.4159)+(-0.0077)Thr+(-0.1013)Cit+(-0.0147)Val+(0.0532)Orn;0.692,0.725,0.758,0.801,0.725,0.768,0.709,0.750,(5.4309)+(-0.0912)Asn+(0.0100)Pro+(-0.0300)Tyr+(-0.0129)Val;0.692,0.726,0.744,0.784,0.726,0.752,0.672,0.733,(4.2619)+(-0.0951)Asn+(-0.0402)Tyr+(0.0314)Orn+(-0.0097)Leu;0.692,0.727,0.748,0.768,0.759,0.777,0.650,0.739,(3.0615)+(-0.0135)Arg+(-0.2025)Met+(0.0272)Orn+(-0.0022)Leu;0.692,0.735,0.732,0.773,0.677,0.858,0.647,0.739,(1.0464)+(0.0265)Ser+(-0.0058)Ala+(-0.0242)Tyr+(-0.0122)Lys;0.692,0.729,0.773,0.786,0.730,0.794,0.810,0.780,(5.3510)+(-0.1189)Asn+(-0.0392)Val+(-0.0004)Lys+(0.0550)Leu;0.691,0.726,0.753,0.804,0.698,0.765,0.723,0.747,(1.5406)+(-0.0076)Ala+(-0.0173)Arg+(-0.0531)Tyr+(0.0697)Phe;0.691,0.730,0.686,0.709,0.644,0.705,0.701,0.690,(1.4530)+(-0.0675)Tyr+(-0.0213)Lys+(0.0385)Ile+(0.0468)Phe;0.691,0.724,0.693,0.760,0.635,0.675,0.648,0.679,(1.0079)+(0.0068)Pro+(-0.0723)Tyr+(-0.0169)Val+(0.0756)Phe;0.691,0.723,0.745,0.743,0.662,0.815,0.874,0.774,(0.4045)+(0.0004)Gln+(-0.0079)Thr+(-0.0129)Ala+(0.0464)Ile;0.691,0.726,0.757,0.778,0.780,0.781,0.636,0.744,(4.0538)+(0.0026)Gly+(-0.0656)Cit+(-0.1732)Met+(-0.0009)Lys;0.691,0.726,0.773,0.786,0.790,0.771,0.703,0.763,(4.8964)+(-0.0424)Asn+(-0.0636)Cit+(0.0054)Arg+(-0.1394)Met;0.691,0.733,0.709,0.743,0.708,0.824,0.535,0.703,(0.5730)+(0.0220)Ser+(-0.0318)Arg+(-0.0157)Val+(0.0250)Orn;0.691,0.733,0.744,0.781,0.702,0.851,0.657,0.748,(0.2659)+(0.0265)Ser+(-0.0080)Ala+(-0.0242)Arg+(-0.0013)Leu;0.691,0.727,0.773,0.798,0.771,0.786,0.703,0.765,(2.2380)+(-0.1353)Asn+(0.0029)Gly+(0.0067)Gln+(-0.0846)Cit;0.691,0.727,0.720,0.748,0.688,0.719,0.714,0.717,(3.4948)+(-0.0761)Asn+(-0.0114)Arg+(-0.0497)Tyr+(0.0368)Ile;0.691,0.727,0.795,0.830,0.763,0.840,

0.736,0.792,(5.0899)+(-0.1116)Asn+(0.0141)Thr+(-0.0043)Ala+(-0.0107)V
al;0.691,0.729,0.737,0.733,0.766,0.720,0.698,0.729,(2.8000)+(-0.1297)
Asn+(0.0097)Thr+(-0.0770)Cit+(0.0398)Phe;0.691,0.727,0.773,0.789,0.73
2,0.793,0.801,0.779,(5.4300)+(-0.1146)Asn+(-0.0039)Arg+(-0.0386)Val+(
0.0542)Leu;0.691,0.726,0.755,0.775,0.777,0.778,0.636,0.742,(3.9160)+(
0.0026)Gly+(-0.0680)Cit+(0.0025)Arg+(-0.1807)Met;0.691,0.731,0.669,0.
686,0.658,0.705,0.623,0.668,(2.0726)+(0.0035)Thr+(-0.0801)Cit+(-0.064
9)Tyr+(0.0396)Ile;0.690,0.728,0.799,0.841,0.772,0.808,0.737,0.790,(2.
1707)+(-0.0013)Gly+(0.0049)Gln+(-0.0070)Val+(-0.2081)Met;0.690,0.722,
0.788,0.822,0.770,0.796,0.730,0.779,(1.7577)+(-0.0010)Gly+(0.0050)Gln
+(-0.2204)Met+(-0.0047)Lys;0.690,0.726,0.705,0.731,0.669,0.712,0.706,
0.704,(3.0938)+(-0.0952)Asn+(-0.0553)Tyr+(0.0175)Orn+(0.0301)Ile;0.69
0,0.731,0.733,0.789,0.690,0.725,0.678,0.721,(1.6191)+(-0.0610)Tyr+(-0
.0127)Val+(-0.0092)Lys+(0.0829)Phe;0.690,0.730,0.662,0.691,0.612,0.70
7,0.660,0.667,(0.1339)+(0.0368)Ser+(-0.0109)Gly+(0.0060)Pro+(-0.0709)
Tyr;0.690,0.723,0.768,0.793,0.769,0.769,0.702,0.758,(3.7138)+(-0.0455
)Asn+(0.0015)Gly+(-0.1663)Met+(0.0017)Leu;0.690,0.729,0.718,0.753,0.6
38,0.815,0.725,0.732,(-1.6502)+(0.0219)Ser+(-0.0092)Ala+(-0.0136)Val+
(0.0570)Phe;0.690,0.726,0.741,0.768,0.746,0.766,0.642,0.731,(3.2063)+
(-0.0134)Arg+(-0.0151)Tyr+(-0.1820)Met+(0.0282)Orn;0.690,0.729,0.805,
0.831,0.764,0.834,0.803,0.808,(2.5798)+(-0.1270)Asn+(0.0045)Gln+(0.00
77)Thr+(-0.0072)Ala;0.690,0.731,0.738,0.805,0.700,0.728,0.651,0.721,(
1.7919)+(-0.0183)Arg+(-0.0602)Tyr+(-0.0147)Val+(0.0844)Phe;0.690,0.72
2,0.782,0.802,0.750,0.830,0.765,0.787,(3.8523)+(-0.0964)Asn+(-0.0067)
Ala+(0.0277)Orn+(-0.0069)Leu;0.690,0.726,0.733,0.797,0.678,0.699,0.70
1,0.719,(1.4714)+(-0.0023)Gly+(-0.0677)Tyr+(-0.0151)Val+(0.0802)Phe;0
.690,0.729,0.797,0.814,0.794,0.807,0.750,0.791,(2.8331)+(-0.1133)Asn+
(0.0077)Gln+(-0.0796)Cit+(-0.0089)Lys;0.690,0.726,0.737,0.776,0.681,0

.731,0.752,0.735,(1.9841)+(-0.1151)Asn+(0.0046)Gln+(-0.0534)Tyr+(0.0327)Ile;0.690,0.724,0.691,0.693,0.720,0.793,0.550,0.689,(1.0702)+(0.0305)Ser+(-0.0734)Cit+(-0.0073)Arg+(-0.0175)Lys;0.690,0.728,0.758,0.761,0.729,0.807,0.777,0.769,(1.1910)+(-0.0095)Ala+(0.0231)Orn+(-0.0185)Lys+(0.0408)Phe;0.690,0.729,0.793,0.838,0.768,0.811,0.714,0.783,(2.0901)+(0.0047)Gln+(-0.0067)Val+(-0.2077)Met+(-0.0007)Lys;0.690,0.726,0.800,0.826,0.784,0.812,0.756,0.794,(4.4524)+(-0.0400)Asn+(-0.0038)Ala+(-0.0039)Arg+(-0.1200)Met;0.690,0.724,0.739,0.733,0.660,0.815,0.867,0.769,(0.4591)+(-0.0089)Thr+(-0.0129)Ala+(0.0075)Orn+(0.0442)Ile;0.690,0.735,0.713,0.737,0.676,0.776,0.684,0.718,(1.3023)+(0.0406)Ser+(-0.0100)Gly+(-0.0427)Tyr+(-0.0148)Lys;0.690,0.728,0.724,0.764,0.670,0.774,0.697,0.726,(1.4400)+(0.0346)Ser+(-0.0104)Gly+(-0.0476)Tyr+(-0.0089)Val;0.690,0.722,0.745,0.764,0.745,0.769,0.675,0.738,(2.5781)+(-0.0003)Gly+(-0.2241)Met+(0.0230)Orn+(-0.0013)Leu;0.690,0.724,0.769,0.794,0.773,0.797,0.674,0.760,(5.6439)+(-0.1146)Asn+(0.0148)Thr+(-0.0589)Cit+(-0.0112)Val;0.689,0.732,0.743,0.770,0.738,0.749,0.675,0.733,(3.5843)+(-0.0090)Arg+(0.0091)Pro+(-0.0154)Tyr+(-0.1992)Met;0.689,0.735,0.665,0.714,0.663,0.764,0.469,0.652,(0.3026)+(0.0249)Ser+(-0.0288)Arg+(-0.0521)Tyr+(0.0194)Orn;0.689,0.724,0.790,0.828,0.753,0.801,0.760,0.786,(3.4732)+(-0.1346)Asn+(0.0052)Gln+(0.0072)Pro+(-0.0162)Val;0.689,0.723,0.762,0.773,0.782,0.773,0.683,0.753,(4.2591)+(-0.0622)Cit+(-0.1777)Met+(-0.0030)Lys+(0.0064)Leu;0.689,0.725,0.820,0.853,0.781,0.838,0.798,0.818,(2.5897)+(-0.1028)Asn+(0.0059)Gln+(-0.0063)Ala+(-0.0136)Arg;0.689,0.722,0.738,0.762,0.717,0.801,0.674,0.739,(1.1920)+(0.0360)Ser+(-0.0085)Gly+(-0.0274)Arg+(-0.0131)Val;0.689,0.726,0.731,0.726,0.647,0.815,0.861,0.762,(0.0649)+(-0.0007)Gln+(-0.0137)Ala+(0.0423)Ile+(0.0097)Phe;0.689,0.725,0.778,0.810,0.764,0.788,0.718,0.770,(1.5560)+(0.0048)Gln+(-0.2302)Met+(-0.0063)Lys+(0.0056)Leu;0.689,0.724,0.793,0.826,0

.779,0.793,0.732,0.782,(4.8261)+(-0.0596)Asn+(-0.0092)Val+(-0.1248)Met+(0.0049)Lys;0.689,0.726,0.756,0.777,0.778,0.780,0.636,0.743,(4.0203)+(0.0026)Gly+(-0.0657)Cit+(-0.0015)Tyr+(-0.1743)Met;0.689,0.721,0.768,0.798,0.763,0.767,0.700,0.757,(4.0524)+(-0.0474)Asn+(0.0012)Gly+(-0.0094)Tyr+(-0.1414)Met;0.689,
0.731,0.670,0.686,0.659,0.707,0.621,0.668,(1.9762)+(0.0012)Gly+(-0.0805)Cit+(-0.0614)Tyr+(0.0404)Ile;0.689,0.728,0.768,0.811,0.732,0.801,0.707,0.762,(4.6215)+(-0.0989)Asn+(0.0149)Thr+(-0.0055)Ala+(-0.0322)Tyr;0.689,0.726,0.734,0.770,0.727,0.744,0.649,0.722,(4.1416)+(-0.0829)Asn+(-0.0139)Arg+(-0.0437)Tyr+(0.0307)Orn;0.689,0.724,0.789,0.818,0.767,0.815,0.737,0.784,(3.5470)+(0.0005)Gly+(-0.0040)Ala+(-0.1634)Met+(-0.0009)Lys;0.689,0.725,0.795,0.823,0.774,0.807,0.755,0.790,(4.4606)+(-0.0439)Asn+(-0.0037)Ala+(-0.0059)Tyr+(-0.1133)Met;0.689,0.730,0.678,0.706,0.632,0.728,0.665,0.683,(0.1236)+(0.0350)Ser+(-0.0109)Gly+(-0.0681)Tyr+(0.0150)Orn;0.689,0.721,0.793,0.817,0.787,0.795,0.740,0.785,(2.7669)+(-0.1266)Asn+(0.0073)Gln+(-0.0781)Cit+(-0.0072)Leu;0.689,0.721,0.771,0.798,0.773,0.774,0.691,0.759,(3.9652)+(-0.0428)Asn+(0.0015)Gly+(-0.0053)Arg+(-0.1541)Met;0.689,0.722,0.779,0.793,0.744,0.826,0.778,0.786,(3.4485)+(-0.0991)Asn+(0.0009)Gly+(-0.0075)Ala+(0.0244)Orn;0.689,0.723,0.781,0.818,0.772,0.789,0.696,0.769,(1.5836)+(0.0054)Gln+(-0.0142)Arg+(-0.2266)Met+(0.0023)Leu;0.688,0.725,0.786,0.825,0.775,0.795,0.696,0.773,(1.7866)+(0.0055)Gln+(-0.0132)Arg+(-0.2127)Met+(-0.0024)Lys;0.688,0.724,0.743,0.739,0.660,0.817,0.871,0.772,(0.4765)+(0.0004)Gly+(-0.0078)Thr+(-0.0128)Ala+(0.0468)Ile;0.688,0.732,0.722,0.695,0.778,0.814,0.608,0.724,(2.2829)+(0.0019)Gln+(-0.1149)Cit+(0.0523)Orn+(-0.0239)Lys;0.688,0.727,0.737,0.765,0.728,0.741,0.678,0.728,(3.2294)+(0.0090)Pro+(-0.0157)Tyr+(-0.2124)Met+(-0.0008)Leu;0.688,0.721,0.728,0.723,0.642,0.817,0.858,0.760,(0.3146)+(-0.0007)Gln+(-0.0135)Ala+(0.

0031)Orn+(0.0435)Ile;0.688,0.728,0.748,0.771,0.750,0.753,0.682,0.739,(3.3839)+(-0.0092)Arg+(0.0085)Pro+(-0.2204)Met+(-0.0014)Leu;0.688,0.724,0.752,0.787,0.736,0.772,0.677,0.743,(1.5484)+(0.0033)Gln+(-0.0133)Tyr+(-0.2259)Met+(0.0194)Orn;0.688,0.724,0.678,0.669,0.709,0.788,0.559,0.681,(0.7976)+(0.0307)Ser+(-0.0812)Cit+(-0.0211)Lys+(0.0047)Leu;0.688,0.736,0.718,0.737,0.674,0.837,0.673,0.730,(0.2571)+(0.0258)Ser+(-0.0078)Ala+(0.0220)Orn+(-0.0187)Lys;0.688,0.723,0.722,0.773,0.648,0.753,0.720,0.723,(0.5714)+(-0.0088)Ala+(-0.0608)Tyr+(0.0171)Orn+(0.0591)Phe;0.688,0.726,0.673,0.672,0.642,0.807,0.644,0.691,(0.2621)+(0.0287)Ser+(-0.0305)Val+(-0.0214)Lys+(0.0457)Leu;0.688,0.723,0.734,0.729,0.648,0.817,0.865,0.765,(0.3535)+(-0.0003)Gly+(-0.0005)Gln+(-0.0134)Ala+(0.0443)Ile;0.688,0.721,0.782,0.798,0.739,0.826,0.796,0.790,(4.1449)+(-0.0872)Asn+(-0.0091)Ala+(0.0113)Pro+(-0.0058)Leu;0.688,0.724,0.794,0.829,0.769,0.826,0.731,0.789,(3.8989)+(0.0003)Gly+(-0.0031)Ala+(-0.0048)Val+(-0.1534)Met;0.688,0.728,0.744,0.741,0.663,0.813,0.872,0.772,(0.1984)+(-0.0078)Thr+(-0.0132)Ala+(0.0440)Ile+(0.0111)Phe;0.688,0.721,0.787,0.826,0.775,0.792,0.704,0.774,(1.7343)+(-0.0008)Gly+(0.0056)Gln+(-0.0142)Arg+(-0.2200)Met;0.688,0.726,0.671,0.689,0.648,0.757,0.606,0.675,(-1.5214)+(0.0291)Ser+(-0.0134)Val+(-0.0212)Lys+(0.0570)Phe;0.688,0.724,0.736,0.764,0.724,0.753,0.671,0.728,(4.2268)+(-0.0825)Asn+(-0.0403)Tyr+(0.0321)Orn+(-0.0087)Lys;0.688,0.729,0.792,0.837,0.767,0.810,0.713,0.782,(2.1032)+(0.0046)Gln+(-0.0024)Tyr+(-0.0067)Val+(-0.2059)Met;0.687,0.720,0.689,0.688,0.715,0.795,0.561,0.690,(0.8556)+(0.0291)Ser+(0.0006)Gln+(-0.0805)Cit+(-0.0195)Lys;0.687,0.720,0.704,0.733,0.662,0.709,0.710,0.703,(3.0377)+(-0.0923)Asn+(0.0013)Gly+(-0.0511)Tyr+(0.0363)Ile;0.687,0.731,0.677,0.692,0.664,0.707,0.642,0.676,(2.1953)+(-0.0782)Cit+(0.0007)Pro+(-0.0624)Tyr+(0.0390)Ile;0.687,0.721,0.816,0.843,0.770,0.843,0.820,0.819,(2.5106)+(-0.1142)Asn+(0.0000)Gly+(0

.0050)Gln+(-0.0067)Ala;0.687,0.726,0.735,0.731,0.648,0.817,0.866,0.76
5,(-0.1051)+(-0.0005)Gly+(-0.0138)Ala+(0.0418)Ile+(0.0086)Phe;0.687,0
.726,0.746,0.745,0.766,0.721,0.728,0.740,(2.8456)+(-0.1108)Asn+(-0.07
29)Cit+(0.0009)Pro+(0.0400)Phe;0.687,0.719,0.737,0.764,0.730,0.758,0.
666,0.729,(2.8293)+(-0.0007)Gly+(-0.0156)Tyr+(-0.2000)Met+(0.0247)Orn
;0.687,0.734,0.714,0.772,0.697,0.819,0.519,0.702,(1.4116)+(0.0255)Ser
+(-0.0237)Arg+(-0.0331)Tyr+(-0.0085)Val;0.687,0.725,0.694,0.694,0.716
,0.798,0.576,0.696,(0.9582)+(0.0321)Ser+(-0.0062)Thr+(-0.0771)Cit+(-0
.0168)Lys;0.687,0.722,0.793,0.828,0.768,0.821,0.735,0.788,(3.8552)+(-
0.0031)Ala+(-0.0053)Val+(-0.1581)Met+(0.0017)Lys;0.687,0.722,0.789,0.
825,0.776,0.803,0.714,0.779,(4.8101)+(-0.0559)Asn+(0.0012)Gly+(-0.007
8)Val+(-0.1153)Met;0.687,0.724,0.731,0.728,0.642,0.818,0.863,0.763,(-
0.2297)+(-0.0139)Ala+(0.0012)Orn+(0.0416)Ile+(0.0084)Phe;0.687,0.735,
0.715,0.731,0.632,0.809,0.779,0.738,(-2.3611)+(0.0314)Ser+(-0.0172)Th
r+(-0.0101)Ala+(0.0419)Phe;0.687,0.721,0.802,0.843,0.763,0.831,0.755,
0.798,(5.2998)+(-0.0781)Asn+(-0.0033)Ala+(-0.0157)Tyr+(-0.0076)Val;0.
687,0.723,0.816,0.855,0.779,0.825,0.782,0.810,(3.3572)+(-0.1295)Asn+(
-0.0004)Gly+(0.0058)Gln+(-0.0133)Val;0.687,0.725,0.781,0.804,0.760,0.
806,0.746,0.779,(3.1506)+(0.0008)Gly+(-0.0046)Ala+(-0.1822)Met+(0.007
3)Leu;0.687,0.720,0.773,0.793,0.773,0.768,0.723,0.764,(3.9565)+(-0.04
10)Asn+(-0.1625)Met+(-0.0014)Lys+(0.0021)Leu;0.687,0.721,0.733,0.729,
0.645,0.818,0.864,0.764,(0.1500)+(-0.0006)Gly+(-0.0136)Ala+(0.0024)Or
n+(0.0429)Ile;0.686,0.728,0.723,0.755,0.718,0.727,0.647,0.712,(2.3706
)+(-0.0711)Cit+(-0.0601)Tyr+(-0.0138)Lys+(0.0761)Phe;0.686,0.722,0.76
9,0.798,0.770,0.805,0.667,0.760,(5.2779)+(-0.0917)Asn+(0.0031)Gly+(-0
.0603)Cit+(-0.0088)Val;0.686,0.718,0.776,0.800,0.779,0.769,0.713,0.76
5,(4.1273)+(-0.0400)Asn+(-0.0051)Arg+(-0.1549)Met+(0.0001)Lys;0.686,0
.722,0.784,0.818,0.756,0.824,0.724,0.780,(2.6953)+(0.0039)Gln+(-0.007

4)Ala+(-0.0803)Cit+(-0.0281)Tyr;0.686,0.721,0.758,0.769,0.780,0.764,0.679,0.748,(4.0035)+(-0.0652)Cit+(0.0029)Arg+(-0.1910)Met+(0.0051)Leu;0.686,0.722,0.779,0.792,0.748,0.825,0.774,0.785,(3.5308)+(-0.1068)Asn+(0.0057)Thr+(-0.0077)Ala+(0.0218)Orn;0.686,0.723,0.779,0.795,0.776,0.775,0.745,0.773,(2.2927)+(-0.1332)Asn+(0.0070)Gln+(-0.0817)Cit+(0.0017)Pro;0.686,0.722,0.709,0.738,0.666,0.703,0.725,0.708,(3.2371)+(-0.0891)Asn+(0.0018)Pro+(-0.0535)Tyr+(0.0337)Ile;0.686,0.720,0.772,0.800,0.757,0.823,0.694,0.769,(4.0018)+(0.0011)Gly+(-0.0069)Ala+(-0.0741)Cit+(-0.0222)Tyr;0.686,0.730,0.694,0.739,0.687,0.796,0.513,0.684,(0.9867)+(0.0292)Ser+(-0.0190)Arg+(-0.0346)Tyr+(-0.0111)Lys;0.686,0.722,0.783,0.814,0.776,0.798,0.708,0.774,(5.9115)+(-0.0755)Asn+(-0.0539)Cit+(-0.0191)Tyr+(-0.0073)Val;0.686,0.727,0.684,0.702,0.674,0.716,0.634,0.682,(2.4582)+(-0.0710)Cit+(-0.0076)Arg+(-0.0589)Tyr+(0.0400)Ile;0.686,0.722,0.729,0.744,0.747,0.754,0.635,0.720,(3.7564)+(-0.1051)Asn+(0.0044)Gly+(-0.0763)Cit+(0.0036)Pro;0.686,0.720,0.777,0.812,0.761,0.777,0.722,0.768,(1.4005)+(-0.0008)Gly+(0.0046)Gln+(-0.2440)Met+(0.0022)Leu;0.686,0.723,0.772,0.790,0.773,0.777,0.721,0.765,(2.4088)+(-0.1445)Asn+(0.0067)Gln+(0.0070)Thr+(-0.0827)Cit;0.685,0.726,0.788,0.808,0.768,0.812,0.756,0.786,(3.4833)+(-0.0046)Ala+(-0.1701)Met+(-0.0033)Lys+(0.0086)Leu;0.685,0.717,0.738,0.794,0.658,0.755,0.742,0.737,(0.4816)+(0.0009)Gln+(-0.0084)Ala+(-0.0588)Tyr+(0.0637)Phe;0.685,0.731,0.738,0.767,0.679,0.860,0.694,0.750,(0.3800)+(0.0298)Ser+(-0.0063)Thr+(-0.0067)Ala+(-0.0132)Lys;0.685,0.721,0.754,0.763,0.706,0.803,0.795,0.767,(1.4357)+(-0.0116)Ala+(0.0092)Pro+(-0.0159)Lys+(0.0404)Phe;0.685,0.718,0.696,0.702,0.714,0.804,0.563,0.696,(1.3696)+(0.0283)Ser+(-0.0740)Cit+(-0.0044)Val+(-0.0162)Lys;0.685,0.725,0.703,0.663,0.764,0.796,0.618,0.710,(1.8239)+(-0.1150)Cit+(0.0523)Orn+(-0.0267)Lys+(0.0359)Phe;0.685,0.720,0.712,0.763,0.701,0.690,0.616,0.693,(1.6331)+(-0.0717)Cit+(-0

.0675)Tyr+(-0.0154)Leu+(0.0830)Phe;0.685,0.722,0.791,0.822,0.774,0.818,0.726,0.785,(3.7367)+(0.0007)Gly+(-0.0039)Ala+(-0.0070)Arg+(-0.1557)Met;0.685,0.720,0.728,0.746,0.754,0.752,0.612,0.716,(3.9301)+(-0.1179)Asn+(0.0037)Gly+(0.0091)Thr+(-0.0770)Cit;0.685,0.726,0.797,0.844,0.779,0.818,0.694,0.784,(2.2661)+(0.0056)Gln+(-0.0135)Arg+(-0.0067)Val+(-0.1927)Met;0.685,0.724,0.770,0.799,0.769,0.769,0.693,0.758,(5.2997)+(-0.0732)Asn+(-0.0611)Cit+(-0.0288)Tyr+(-0.0016)Leu;0.685,0.721,0.735,0.765,0.729,0.760,0.654,0.727,(2.7479)+(-0.0145)Tyr+(-0.2010)Met+(0.0246)Orn+(-0.0009)Leu;0.685,0.723,0.781,0.820,0.762,0.791,0.708,0.770,(1.7931)+(0.0048)Gln+(-0.0067)Tyr+(-0.2102)Met+(-0.0043)Lys;0.685,0.720,0.766,0.781,0.786,0.776,0.679,0.755,(4.3249)+(-0.0638)Cit+(0.0033)Arg+(-0.1709)Met+(-0.0016)Lys;0.685,0.723,0.588,0.641,0.541,0.629,0.519,0.582,(-2.4311)+(0.0236)Ser+(0.0033)Pro+(-0.0870)Tyr+(0.0542)Phe;0.685,0.722,0.684,0.754,0.644,0.671,0.587,0.664,(0.2332)+(-0.0770)Tyr+(0.0199)Orn+(-0.0222)Leu+(0.0740)Phe;0.685,0.726,0.703,0.750,0.645,0.770,0.650,0.704,(2.1949)+(-0.0484)Tyr+(-0.0306)Val+(0.0291)Orn+(0.0344)Leu;0.685,0.721,0.819,0.849,0.775,0.841,0.813,0.819,(2.6502)+(-0.1135)Asn+(0.0051)Gln+(-0.0063)Ala+(-0.0034)Leu;0.685,0.722,0.781,0.823,0.767,0.790,0.688,0.767,(1.7999)+(0.0055)Gln+(-0.0141)Arg+(-0.0070)Tyr+(-0.2076)Met;0.685,0.716,0.675,0.685,0.647,0.725,0.672,0.682,(2.2349)+(-0.0558)Tyr+(0.0197)Orn+(-0.0217)Lys+(0.0421)Ile;0.684,0.717,0.709,0.708,0.735,0.787,0.601,0.708,(2.2844)+(-0.0007)Gln+(-0.1021)Cit+(-0.0155)Val+(0.0503)Orn;0.684,0.715,0.714,0.714,0.735,0.789,0.617,0.714,(2.1262)+(-0.0008)Gly+(-0.1017)Cit+(-0.0156)Val+(0.0494)Orn;0.684,0.721,0.787,0.809,0.784,0.782,0.740,0.779,(2.3823)+(-0.1272)Asn+(0.0074)Gln+(-0.0774)Cit+(-0.0057)Arg;0.684,0.721,0.656,0.660,0.667,0.749,0.558,0.658,(-1.7296)+(0.0347)Ser+(-0.0240)Arg+(-0.0226)Lys+(0.0432)Phe;0.684,0.722,0.759,0.775,0.777,0.764,0.675,0.748,(4.1861)+(-0.0623

)Cit+(-0.0058)Tyr+(-0.1768)Met+(0.0052)Leu;0.684,0.717,0.694,0.743,0.675,0.681,0.615,0.679,(0.4348)+(0.0026)Gln+(-0.0826)Cit+(-0.0751)Tyr+(0.0619)Phe;0.684,0.718,0.772,0.801,0.767,0.764,0.712,0.761,(4.2297)+(-0.0449)Asn+(-0.0105)Tyr+(-0.1381)Met+(-0.0003)Lys;0.684,0.721,0.700,0.729,0.649,0.738,0.700,0.704,(0.2457)+(0.0400)Ser+(-0.0096)Gly+(-0.0089)Thr+(-0.0535)Tyr;0.684,0.726,0.648,0.625,0.712,0.759,0.497,0.648,(-0.9389)+(0.0236)Ser+(-0.0936)Cit+(-0.0231)Arg+(0.0284)Orn;0.684,0.720,0.774,0.797,0.778,0.767,0.714,0.764,(4.0570)+(-0.0391)Asn+(-0.0051)Arg+(-0.1591)Met+(0.0014)Leu;0.684,0.719,0.773,0.803,0.772,0.764,0.705,0.761,(4.3499)+(-0.0419)Asn+(-0.0048)Arg+(-0.0103)Tyr+(-0.1339)Met;0.684,0.723,0.786,0.811,0.772,0.833,0.714,0.783,(4.5986)+(-0.0063)Ala+(-0.0700)Cit+(-0.0187)Tyr+(-0.0050)Lys;0.684,0.720,0.729,0.779,0.715,0.796,0.575,0.716,(3.4092)+(-0.0228)Arg+(-0.0393)Tyr+(-0.0130)Val+(0.0375)Orn;0.684,0.727,0.750

,0.750,0.769,0.724,0.728,0.743,(2.8833)+(-0.1089)Asn+(-0.0717)Cit+(-0.0012)Arg+(0.0412)Phe;0.684,0.722,0.707,0.710,0.701,0.774,0.667,0.713,(0.4887)+(0.0420)Ser+(-0.0084)Gly+(-0.0198)Arg+(-0.0181)Lys;0.684,0.719,0.760,0.793,0.745,0.815,0.667,0.755,(3.9315)+(0.0088)Thr+(-0.0074)Ala+(-0.0767)Cit+(-0.0298)Tyr;0.684,0.716,0.764,0.785,0.756,0.783,0.712,0.759,(5.5861)+(-0.0942)Asn+(-0.0542)Cit+(0.0079)Pro+(-0.0128)Val;0.684,0.720,0.771,0.794,0.751,0.811,0.721,0.769,(3.9941)+(-0.0075)Ala+(-0.0740)Cit+(-0.0249)Tyr+(0.0051)Leu;0.684,0.723,0.775,0.797,0.787,0.790,0.684,0.765,(4.5842)+(-0.0573)Cit+(-0.0048)Val+(-0.1616)Met+(0.0017)Lys;0.684,0.722,0.786,0.817,0.764,0.810,0.736,0.782,(3.5100)+(0.0005)Gly+(-0.0040)Ala+(-0.0017)Tyr+(-0.1642)Met;0.683,0.725,0.821,0.849,0.777,0.851,0.815,0.823,(2.7719)+(-0.1032)Asn+(0.0054)Gln+(-0.0061)Ala+(-0.0062)Lys;0.683,0.720,0.713,0.750,0.690,0.719,0.661,0.705,(3.7426)+(-0.0981)Asn+(0.0046)Pro+(-0.0509)Tyr+(0.0245)Orn;0.683,0.721,

0.793,0.823,0.776,0.813,0.733,0.786,(3.8134)+(-0.0039)Ala+(-0.0070)Ar
g+(-0.1556)Met+(0.0004)Lys;0.683,0.721,0.713,0.762,0.674,0.709,0.667,
0.703,(0.8138)+(0.0020)Gln+(-0.0668)Tyr+(-0.0175)Lys+(0.0644)Phe;0.68
3,0.721,0.798,0.818,0.779,0.848,0.749,0.798,(2.7443)+(0.0044)Gln+(-0.
0078)Ala+(-0.0827)Cit+(-0.0102)Lys;0.683,0.724,0.680,0.683,0.615,0.80
8,0.713,0.705,(-1.3931)+(0.0279)Ser+(-0.0036)Gln+(-0.0113)Ala+(0.0401
)Phe;0.683,0.720,0.779,0.820,0.755,0.775,0.721,0.768,(1.6836)+(-0.001
2)Gly+(0.0047)Gln+(-0.0091)Tyr+(-0.2212)Met;0.683,0.728,0.741,0.775,0
.687,0.871,0.670,0.751,(0.8299)+(0.0261)Ser+(-0.0063)Ala+(-0.0046)Val
+(-0.0130)Lys;0.683,0.719,0.780,0.797,0.773,0.844,0.705,0.780,(3.9907
)+(0.0019)Gly+(-0.0074)Ala+(-0.0771)Cit+(-0.0071)Lys;0.683,0.720,0.69
3,0.736,0.660,0.689,0.653,0.684,(1.4682)+(0.0043)Pro+(-0.0693)Tyr+(-0
.0166)Lys+(0.0632)Phe;0.683,0.720,0.719,0.774,0.687,0.700,0.651,0.703
,(1.4526)+(-0.0649)Tyr+(-0.0122)Lys+(-0.0121)Leu+(0.0781)Phe;0.683,0.
728,0.726,0.749,0.677,0.858,0.672,0.739,(0.6729)+(0.0284)Ser+(-0.0008
)Gln+(-0.0070)Ala+(-0.0148)Lys;0.683,0.724,0.709,0.717,0.624,0.824,0.
782,0.737,(-0.8902)+(0.0316)Ser+(-0.0189)Thr+(-0.0116)Ala+(0.0123)Pro
;0.683,0.720,0.791,0.826,0.775,0.801,0.724,0.782,(5.0260)+(-0.0542)As
n+(-0.0045)Tyr+(-0.0076)Val+(-0.1068)Met;0.683,0.721,0.787,0.838,0.75
4,0.778,0.730,0.775,(2.8995)+(-0.1144)Asn+(0.0057)Gln+(-0.0363)Tyr+(-
0.0061)Leu;0.682,0.723,0.766,0.794,0.763,0.765,0.698,0.755,(5.1880)+(
-0.0758)Asn+(-0.0636)Cit+(0.0025)Arg+(-0.0304)Tyr;0.682,0.719,0.769,0
.797,0.766,0.757,0.712,0.758,(4.1219)+(-0.0443)Asn+(-0.0110)Tyr+(-0.1
441)Met+(0.0018)Leu;0.682,0.722,0.818,0.862,0.787,0.831,0.753,0.808,(
3.3850)+(-0.1177)Asn+(0.0067)Gln+(-0.0140)Arg+(-0.0127)Val;0.682,0.72
2,0.750,0.770,0.767,0.781,0.643,0.740,(4.4607)+(-0.0856)Asn+(0.0038)G
ly+(-0.0717)Cit+(-0.0058)Lys;0.682,0.723,0.697,0.731,0.658,0.700,0.68
6,0.693,(3.2266)+(-0.1071)Asn+(0.0110)Thr+(-0.0579)Tyr+(0.0342)Ile;0.

682,0.723,0.690,0.715,0.667,0.806,0.590,0.695,(0.3666)+(0.0255)Ser+(-0.0278)Arg+(-0.0308)Val+(0.0350)Leu;0.682,0.721,0.679,0.707,0.636,0.726,0.660,0.682,(0.6947)+(0.0378)Ser+(-0.0100)Gly+(-0.0013)Gln+(-0.0599)Tyr;0.682,0.721,0.766,0.784,0.784,0.775,0.673,0.754,(4.4417)+(-0.0608)Cit+(-0.0045)Tyr+(-0.1616)Met+(-0.0008)Lys;0.682,0.725,0.671,0.724,0.663,0.765,0.477,0.657,(0.5500)+(0.0273)Ser+(-0.0003)Gln+(-0.0251)Arg+(-0.0454)Tyr;0.682,0.718,0.749,0.773,0.761,0.771,0.642,0.737,(4.3390)+(-0.0956)Asn+(0.0037)Gly+(-0.0712)Cit+(-0.0046)Leu;0.682,0.723,0.789,0.813,0.773,0.808,0.747,0.785,(3.5673)+(-0.0045)Ala+(-0.0065)Arg+(-0.1682)Met+(0.0068)Leu;0.682,0.722,0.798,0.834,0.777,0.826,0.725,0.790,(4.2130)+(-0.0030)Ala+(-0.0066)Arg+(-0.0048)Val+(-0.1416)Met;0.682,0.724,0.814,0.853,0.777,0.827,0.776,0.808,(3.3378)+(-0.1281)Asn+(0.0058)Gln+(-0.0129)Val+(-0.0010)Lys;0.682,0.723,0.795,0.829,0.770,0.825,0.735,0.790,(3.9347)+(-0.0031)Ala+(0.0006)Tyr+(-0.0049)Val+(-0.1536)Met;0.682,0.720,0.747,0.799,0.690,0.821,0.679,0.747,(2.7225)+(-0.0059)Ala+(-0.0343)Tyr+(-0.0100)Val+(0.0314)Orn;0.682,0.724,0.600,0.655,0.552,0.642,0.521,0.593,(-2.3908)+(0.0231)Ser+(-0.0843)Tyr+(0.0039)Orn+(0.0553)Phe;0.682,0.723,0.775,0.796,0.788,0.791,0.683,0.764,(4.6083)+(-0.0590)Cit+(0.0021)Arg+(-0.0044)Val+(-0.1590)Met;0.682,0.718,0.807,0.841,0.770,0.845,0.764,0.805,(4.9414)+(-0.0870)Asn+(0.0009)Gly+(-0.0039)Ala+(-0.0088)Val;0.682,0.723,0.776,0.798,0.788,0.792,0.681,0.765,(4.6897)+(-0.0572)Cit+(-0.0013)Tyr+(-0.0044)Val+(-0.1538)Met;0.682,0.722,0.753,0.762,0.776,0.780,0.664,0.745,(4.8741)+(-0.0976)Asn+(0.0141)Thr+(-0.0714)Cit+(-0.0097)Lys;0.681,0.713,0.703,0.704,0.724,0.789,0.597,0.704,(1.9095)+(-0.1018)Cit+(0.0019)Pro+(-0.0162)Val+(0.0478)Orn;0.681,0.722,0.789,0.818,0.767,0.814,0.741,0.785,(3.6560)+(-0.0039)Ala+(-0.0021)Tyr+(-0.1589)Met+(-0.0009)Lys;0.681,0.717,0.740,0.791,0.667,0.749,0.752,0.740,(1.1552)+(-0.0016)Gly+(-0.0081)Ala+(-0.0585)Tyr+(

0.0646)Phe;0.681,0.721,0.713,0.714,0.640,0.803,0.798,0.739,(-1.7965)+(0.0312)Ser+(-0.0069)Gly+(-0.0115)Ala+(0.0311)Phe;0.681,0.718,0.780,0.810,0.762,0.825,0.708,0.776,(4.3412)+(-0.0062)Ala+(-0.0688)Cit+(-0.0212)Tyr+(-0.0028)Val;0.681,0.716,0.787,0.827,0.744,0.811,0.755,0.784,(4.5186)+(-0.0763)Asn+(0.0006)Gly+(-0.0050)Ala+(-0.0231)Tyr;0.681,0.722,0.704,0.702,0.627,0.813,0.793,0.734,(-0.7312)+(0.0310)Ser+(-0.0074)Gly+(-0.0128)Ala+(0.0098)Pro;0.681,0.718,0.674,0.714,0.663,0.662,0.603,0.660,(1.3575)+(-0.0767)Cit+(0.0042)Pro+(-0.0758)Tyr+(0.0600)Phe;0.681,0.724,0.728,0.779,0.659,0.857,0.645,0.735,(0.9492)+(0.0215)Ser+(-0.0059)Ala+(-0.0294)Tyr+(-0.0060)Val;0.681,0.723,0.770,0.796,0.772,0.774,0.693,0.759,(5.3658)+(-0.0688)Asn+(-0.0610)Cit+(-0.0275)Tyr+(-0.0028)Lys;0.681,0.729,0.721,0.736,0.668,0.847,0.700,0.738,(0.1411)+(0.0287)Ser+(-0.0078)Ala+(-0.0179)Lys+(0.0077)Leu;0.681,0.715,0.727,0.764,0.707,0.730,0.670,0.718,(3.8527)+(-0.0959)Asn+(-0.0002)Gly+(-0.0459)Tyr+(0.0271)Orn;0.681,0.712,0.762,0.775,0.749,0.817,0.716,0.764,(3.0324)+(0.0019)Gly+(-0.0092)Ala+(-0.0832)Cit+(0.0037)Leu;0.681,0.720,0.778,0.804,0.762,0.819,0.711,0.774,(4.2246)+(-0.0068)Ala+(-0.0708)Cit+(-0.0013)Arg+(-0.0228)Tyr;0.681,0.716,0.691,0.711,0.649,0.731,0.698,0.697,(1.7351)+(0.0019)Gln+(-0.0545)Tyr+(-0.0208)Lys+(0.0460)Ile;0.681,0.723,0.762,0.755,0.745,0.780,0.802,0.770,(1.6490)+(-0.1112)Asn+(0.0047)Gln+(-0.0173)Lys+(0.0320)Ile;0.681,0.718,0.749,0.795,0.716,0.746,0.700,0.739,(2.6309)+(-0.1193)Asn+(0.0044)Gln+(-0.0468)Tyr+(0.0217)Orn;0.681,0.718,0.728,0.709,0.726,0.761,0.759,0.739,(2.7850)+(-0.0897)Asn+(0.0179)Orn+(-0.0181)Lys+(0.0292)Ile;0.681,0.719,0.713,0.761,0.687,0.710,0.643,0.700,(1.7854)+(-0.0134)Arg+(-0.0625)Tyr+(-0.0121)Lys+(0.0664)Phe;0.681,0.710,0.777,0.795,0.754,0.823,0.743,0.779,(2.1953)+(0.0029)Gln+(0.0011)Thr+(-0.0094)Ala+(-0.0860)Cit;0.681,0.723,0.727,0.770,0.655,0.836,0.687,0.737,(0.2709)+(0.0266)Ser+(-0.0082)Thr+(-0.0065

)Ala+(-0.0292)Tyr;0.681,0.719,0.724,0.734,0.690,0.801,0.712,0.735,(0.9185)+(0.0381)Ser+(-0.0091)Gly+(-0.0088)Val+(-0.0168)Lys;0.680,0.716,0.728,0.783,0.651,0.750,0.723,0.727,(0.6889)+(0.0035)Thr+(-0.0085)Ala+(-0.0606)Tyr+(0.0647)Phe;0.680,0.711,0.777,0.796,0.755,0.826,0.739,0.779,(2.1502)+(0.0007)Gly+(0.0029)Gln+(-0.0093)Ala+(-0.0864)Cit;0.680,0.715,0.758,0.782,0.758,0.767,0.690,0.749,(3.1279)+(0.0007)Gly+(-0.2038)Met+(-0.0038)Lys+(0.0053)Leu;0.680,0.721,0.741,0.761,0.755,0.759,0.644,0.730,(4.0095)+(-0.1000)Asn+(0.0041)Gly+(-0.0742)Cit+(0.0003)Arg;0.680,0.716,0.758,0.786,0.762,0.763,0.674,0.746,(3.2362)+(0.0009)Gly+(-0.0081)Arg+(-0.2005)Met+(0.0033)Leu;0.680,0.711,0.777,0.793,0.754,0.823,0.751,0.780,(2.1132)+(0.0030)Gln+(-0.0096)Ala+(-0.0865)Cit+(0.0022)Leu;0.680,0.721,0.763,0.781,0.781,0.768,0.672,0.751,(4.3107)+(-0.0632)Cit+(0.0025)Arg+(-0.0048)Tyr+(-0.1682)Met;0.680,0.716,0.757,0.772,0.726,0.802,0.750,0.762,(0.8145)+(-0.0106)Ala+(-0.0244)Arg+(0.0194)Orn+(0.0347)Phe;0.680,0.717,0.740,0.755,0.663,0.837,0.788,0.761,(1.7100)+(-0.0086)Ala+(-0.0328)Val+(0.0273)Orn+(0.0414)Leu;0.680,0.716,0.745,0.739,0.755,0.746,0.739,0.745,(2.4281)+(-0.1036)Asn+(0.0217)Orn+(-0.0157)Lys+(0.0349)Phe;0.680,0.719,0.714,0.732,0.625,0.855,0.754,0.741,(0.1064)+(0.0211)Ser+(-0.0085)Ala+(-0.0295)Val+(0.0419)Leu;0.680,0.718,0.793,0.825,0.783,0.800,0.720,0.782,(5.0496)+(-0.0510)Asn+(-0.0037)Arg+(-0.0077)Val+(-0.1106)Met;0.679,0.714,0.785,0.805,0.764,0.828,0.741,0.785,(2.2337)+(0.0037)Gln+(-0.0090)Ala+(-0.0795)Cit+(-0.0076)Arg;0.679,0.714,0.753,0.775,0.679,0.854,0.774,0.770,(0.6604)+(0.0309)Ser+(-0.0078)Gly+(-0.0072)Ala+(-0.0088)Val;0.679,0.719,0.785,0.807,0.750,0.827,0.766,0.788,(3.8456)+(-0.1057)Asn+(0.0006)Gly+(0.0099)Thr+(-0.0070)Ala;0.679,0.718,0.755,0.807,0.724,0.746,0.691,0.742,(2.8237)+(-0.1319)Asn+(0.0049)Gln+(0.0106)Thr+(-0.0460)Tyr;0.679,0.718,0.737,0.719,0.732,0.749,0.785,0.746,(2.3687)+(-0.0935)Asn+(-0.0172)Lys+(0.028

1)Ile+(0.0249)Phe;0.679,0.724,0.679,0.733,0.669,0.769,0.495,0.666,(0.3833)+(0.0285)Ser+(-0.0039)Thr+(-0.0235)Arg+(-0.0429)Tyr;0.679,0.723,0.783,0.806,0.761,0.806,0.751,0.781,(3.3355)+(-0.0046)Ala+(-0.0031)Tyr+(-0.1746)Met+(0.0071)Leu;0.679,0.721,0.771,0.811,0.751,0.772,0.707,0.760,(1.4791)+(0.0044)Gln+(-0.0083)Tyr+(-0.2309)Met+(0.0028)Leu;0.679,0.713,0.763,0.793,0.765,0.771,0.674,0.751,(3.4510)+(0.0008)Gly+(-0.0078)Arg+(-0.1884)Met+(-0.0007)Lys;0.679,0.714,0.671,0.688,0.635,0.720,0.667,0.678,(2.3108)+(0.0060)Thr+(-0.0569)Tyr+(-0.0211)Lys+(0.0467)Ile;0.679,0.715,0.744,0.787,0.707,0.805,0.664,0.741,(2.9827)+(-0.0069)Ala+(-0.0203)Arg+(-0.0368)Tyr+(0.0302)Orn;0.679,0.720,0.792,0.824,0.774,0.814,0.732,0.786,(3.8696)+(-0.0038)Ala+(-0.0068)Arg+(-0.0021)Tyr+(-0.1510)Met;0.678,0.715,0.718,0.715,0.772,0.789,0.562,0.710,(2.1160)+(-0.0959)Cit+(-0.0161)Arg+(0.0448)Orn+(-0.0169)Leu;0.678,0.716,0.765,0.789,0.768,0.769,0.691,0.754,(3.4568)+(-0.0068)Arg+(-0.1937)Met+(-0.0022)Lys+(0.0041)Leu;0.678,0.711,0.762,0.779,0.749,0.821,0.701,0.762,(3.1039)+(0.0014)Gly+(0.0037)Thr+(-0.0091)Ala+(-0.0830)Cit;0.678,0.718,0.777,0.792,0.774,0.845,0.698,0.777,(4.1257)+(0.0099)Thr+(-0.0080)Ala+(-0.0791)Cit+(-0.0104)Lys;0.678,0.714,0.751,0.771,0.749,0.726,0.719,0.741,(2.2533)+(-0.1292)Asn+(0.0219)Orn+(-0.0239)Leu+(0.0529)Phe;0.678,0.723,0.700,0.745,0.630,0.827,0.634,0.709,(0.1734)+(0.0202)Ser+(-0.0077)Ala+(-0.0406)Tyr+(0.0172)Orn;0.678,0.715,0.683,0.732,0.655,0.688,0.605,0.670,(1.3284)+(0.0095)Thr+(-0.0719)Tyr+(-0.0194)Lys+(0.0684)Phe;0.678,0.714,0.690,0.70

6,0.651,0.722,0.704,0.696,(2.5685)+(-0.0009)Gly+(-0.0534)Tyr+(-0.0188)Lys+(0.0461)Ile;0.678,0.715,0.756,0.787,0.735,0.774,0.702,0.750,(4.9648)+(-0.1268)Asn+(0.0110)Thr+(0.0074)Pro+(-0.0168)Val;0.678,0.717,0.775,0.814,0.761,0.786,0.694,0.764,(3.6945)+(0.0002)Gly+(-0.0069)Val+(-0.1808)Met+(0.0017)Lys;0.678,0.714,0.685,0.743,0.643,0.737,0.579,0.6

76,(2.3028)+(0.0071)Pro+(-0.0528)Tyr+(-0.0149)Val+(0.0265)Orn;0.678,0.722,0.699,0.736,0.651,0.746,0.671,0.701,(0.6868)+(0.0357)Ser+(-0.0104)Gly+(-0.0574)Tyr+(-0.0052)Leu;0.678,0.711,0.771,0.789,0.760,0.823,0.705,0.769,(3.3508)+(0.0018)Gly+(-0.0084)Ala+(-0.0779)Cit+(-0.0032)Arg;0.678,0.718,0.673,0.684,0.585,0.786,0.746,0.700,(-2.2899)+(0.0221)Ser+(-0.0140)Ala+(0.0084)Pro+(0.0277)Phe;0.677,0.706,0.687,0.678,0.689,0.737,0.670,0.693,(-0.5138)+(0.0381)Ser+(-0.0050)Gly+(-0.0177)Thr+(-0.0757)Cit;0.677,0.718,0.776,0.814,0.762,0.789,0.694,0.765,(3.8131)+(0.0001)Gly+(-0.0018)Tyr+(-0.0064)Val+(-0.1722)Met;0.677,0.718,0.739,0.745,0.698,0.814,0.755,0.753,(2.3182)+(-0.0108)Ala+(0.0091)Pro+(0.0225)Orn+(-0.0160)Lys;0.677,0.717,0.794,0.833,0.757,0.814,0.755,0.790,(4.7499)+(-0.0681)Asn+(-0.0048)Ala+(-0.0063)Arg+(-0.0223)Tyr;0.677,0.716,0.713,0.758,0.679,0.695,0.680,0.703,(1.7540)+(-0.0015)Gly+(-0.0658)Tyr+(-0.0154)Lys+(0.0656)Phe;0.677,0.713,0.687,0.724,0.677,0.792,0.533,0.682,(0.4706)+(0.0252)Ser+(-0.0301)Arg+(0.0066)Pro+(-0.0152)Val;0.677,0.712,0.680,0.724,0.671,0.674,0.590,0.664,(1.2270)+(0.0010)Gly+(-0.0778)Cit+(-0.0709)Tyr+(0.0637)Phe;0.677,0.710,0.632,0.600,0.644,0.714,0.636,0.648,(-2.1995)+(0.0353)Ser+(-0.0230)Thr+(-0.0870)Cit+(0.0322)Ile;0.677,0.719,0.744,0.754,0.672,0.828,0.806,0.765,(-0.3009)+(0.0377)Ser+(-0.0069)Gly+(-0.0129)Thr+(-0.0082)Ala;0.677,0.715,0.667,0.665,0.599,0.818,0.707,0.697,(-0.0304)+(0.0266)Ser+(-0.0035)Gln+(-0.0124)Ala+(0.0108)Pro;0.677,0.722,0.714,0.751,0.707,0.828,0.545,0.708,(0.9403)+(0.0282)Ser+(-0.0216)Arg+(-0.0089)Val+(-0.0107)Lys;0.677,0.715,0.810,0.842,0.772,0.839,0.780,0.808,(5.0215)+(-0.0881)Asn+(-0.0040)Ala+(-0.0094)Val+(0.0015)Lys;0.677,0.709,0.764,0.775,0.750,0.814,0.725,0.766,(3.1438)+(0.0042)Thr+(-0.0095)Ala+(-0.0824)Cit+(0.0027)Leu;0.677,0.714,0.752,0.804,0.713,0.730,0.711,0.739,(2.6578)+(-0.1164)Asn+(0.0051)Gln+(0.0050)Pro+(-0.0470)Tyr;0.677,0.712,0.671,0.715,0.663,0.662,0

.577,0.654,(1.2106)+(0.0054)Thr+(-0.0789)Cit+(-0.0762)Tyr+(0.0631)Phe
;0.677,0.715,0.788,0.802,0.777,0.841,0.735,0.789,(4.2171)+(-0.0074)Al
a+(-0.0759)Cit+(0.0025)Arg+(-0.0075)Lys;0.677,0.715,0.664,0.642,0.654
,0.731,0.693,0.680,(-1.5174)+(0.0429)Ser+(-0.0085)Gly+(-0.0284)Lys+(0
.0362)Phe;0.677,0.716,0.742,0.785,0.716,0.735,0.685,0.730,(4.5114)+(-
0.0864)Asn+(0.0075)Pro+(-0.0406)Tyr+(-0.0084)Leu;0.677,0.713,0.672,0.
641,0.702,0.767,0.627,0.684,(1.9321)+(0.0037)Gly+(-0.0887)Cit+(-0.024
2)Lys+(0.0473)Ile;0.676,0.716,0.748,0.780,0.684,0.796,0.762,0.755,(0.
3010)+(-0.0089)Ala+(-0.0161)Val+(0.0233)Orn+(0.0508)Phe;0.676,0.707,0
.759,0.793,0.733,0.779,0.708,0.753,(4.8105)+(-0.1085)Asn+(0.0012)Gly+
(0.0082)Pro+(-0.0154)Val;0.676,0.710,0.769,0.785,0.759,0.823,0.706,0.
768,(3.4071)+(0.0060)Thr+(-0.0089)Ala+(-0.0765)Cit+(-0.0062)Arg;0.676
,0.714,0.779,0.829,0.741,0.760,0.740,0.767,(2.7307)+(-0.1143)Asn+(-0.
0009)Gly+(0.0057)Gln+(-0.0413)Tyr;0.676,0.713,0.678,0.716,0.691,0.743
,0.503,0.663,(-1.8899)+(0.0276)Ser+(-0.0358)Arg+(-0.0223)Leu+(0.0484)
Phe;0.676,0.712,0.783,0.828,0.752,0.801,0.715,0.774,(5.2305)+(-0.0867
)Asn+(0.0005)Gly+(-0.0205)Tyr+(-0.0098)Val;0.676,0.726,0.684,0.742,0.
675,0.783,0.477,0.669,(0.7156)+(0.0265)Ser+(-0.0251)Arg+(-0.0427)Tyr+
(-0.0039)Leu;0.676,0.714,0.706,0.748,0.695,0.730,0.602,0.694,(2.0959)
+(0.0026)Gln+(-0.0789)Cit+(0.0053)Pro+(-0.0569)Tyr;0.676,0.714,0.752,
0.769,0.770,0.757,0.665,0.740,(4.6731)+(-0.1094)Asn+(0.0110)Thr+(-0.0
691)Cit+(-0.0072)Leu;0.676,0.711,0.743,0.789,0.674,0.817,0.709,0.747,
(3.3133)+(-0.0085)Ala+(0.0138)Pro+(-0.0356)Tyr+(-0.0090)Val;0.676,0.7
14,0.706,0.733,0.627,0.841,0.702,0.726,(0.1855)+(0.0206)Ser+(-0.0106)
Ala+(0.0121)Pro+(-0.0112)Val;0.676,0.718,0.783,0.787,0.775,0.835,0.74
9,0.787,(4.1003)+(-0.0082)Ala+(-0.0763)Cit+(-0.0092)Lys+(0.0080)Leu;0
.676,0.716,0.781,0.833,0.750,0.775,0.713,0.768,(2.7438)+(-0.1041)Asn+
(0.0065)Gln+(-0.0151)Arg+(-0.0377)Tyr;0.676,0.713,0.770,0.805,0.754,0

.790,0.696,0.761,(4.9658)+(-0.1231)Asn+(0.0001)Gly+(0.0129)Thr+(-0.0140)Val;0.676,0.715,0.792,0.829,0.751,0.817,0.763,0.790,(4.6926)+(-0.0715)Asn+(-0.0049)Ala+(-0.0223)Tyr+(-0.0019)Lys;0.676,0.709,0.652,0.640,0.662,0.708,0.621,0.658,(-2.2217)+(0.0345)Ser+(-0.0214)Thr+(-0.0874)Cit+(0.0317)Phe;0.676,0.718,0.725,0.792,0.702,0.703,0.615,0.703,(1.4883)+(-0.0201)Arg+(-0.0654)Tyr+(-0.0180)Leu+(0.0808)Phe;0.676,0.709,0.785,0.810,0.758,0.831,0.742,0.785,(2.4876)+(0.0031)Gln+(-0.0082)Ala+(-0.0800)Cit+(-0.0042)Val;0.676,0.715,0.811,0.845,0.779,0.844,0.766,0.809,(5.2040)+(-0.0782)Asn+(-0.0038)Ala+(-0.0060)Arg+(-0.0087)Val;0.676,0.713,0.684,0.701,0.646,0.721,0.691,0.690,(2.3972)+(-0.0003)Pro+(-0.0527)Tyr+(-0.0192)Lys+(0.0470)Ile;0.676,0.718,0.788,0.814,0.765,0.824,0.743,0.787,(4.1992)+(-0.0948)Asn+(0.0130)Thr+(-0.0068)Ala+(-0.0128)Arg;0.676,0.711,0.692,0.686,0.717,0.752,0.614,0.692,(0.5829)+(-0.1023)Cit+(-0.0193)Val+(0.0462)Orn+(0.0402)Phe;0.676,0.708,0.742,0.784,0.686,0.797,0.709,0.744,(3.3781)+(-0.0094)Ala+(-0.0156)Arg+(0.0128)Pro+(-0.0377)Tyr;0.676,0.719,0.704,0.746,0.640,0.830,0.639,0.714,(0.7505)+(0.0246)Ser+(-0.0014)Gln+(-0.0068)Ala+(-0.0337)Tyr;0.675,0.709,0.773,0.796,0.758,0.830,0.706,0.772,(3.5732)+(0.0014)Gly+(-0.0076)Ala+(-0.0754)Cit+(-0.0037)Val;0.675,0.712,0.761,0.793,0.757,0.767,0.681,0.749,(3.3952)+(0.0003)Gly+(-0.0064)Tyr+(-0.1844)Met+(-0.0020)Lys;0.675,0.712,0.780,0.805,0.776,0.794,0.714,0.772,(5.5964)+(-0.0872)Asn+(-0.0551)Cit+(-0.0095)Val+(0.0006)Lys;0.675,0.713,0.762,0.796,0.760,0.766,0.670,0.748,(3.5435)+(0.0006)Gly+(-0.0079)Arg+(-0.0062)Tyr+(-0.1793)Met;0.675,0.713,0.713,0.758,0.695,0.719,0.632,0.701,(3.8494)+(-0.1106)Asn+(0.0090)Thr+(-0.0496)Tyr+(0.0232)Orn;0.675,0.712,0.789,0.806,0.777,0.840,0.731,0.789,(4.3079)+(-0.0069)Ala+(-0.0714)Cit+(-0.0022)Val+(-0.0060)Lys;0.675,0.717,0.783,0.832,0.748,0.777,0.731,0.772,(2.8819)+(-0.1057)Asn+(0.0059)Gln+(-0.0359)Tyr+(-0.0063)Lys;0.675,0.715,0.737,0

.788,0.694,0.769,0.668,0.730,(3.1834)+(-0.0044)Gly+(-0.0486)Tyr+(-0.0134)Val+(0.0333)Orn;0.675,0.716,0.738,0.741,0.760,0.746,0.674,0.730,(4.0903)+(-0.1138)Asn+(0.0094)Thr+(-0.0728)Cit+(0.0019)Pro;0.675,0.711,0.697,0.734,0.695,0.720,0.588,0.684,(3.0815)+(0.0002)Gly+(-0.0731)Cit+(0.0059)Pro+(-0.0534)Tyr;0.675,0.716,0.745,0.780,0.702,0.812,0.694,0.747,(3.0620)+(-0.0064)Ala+(-0.0332)Tyr+(0.0315)Orn+(-0.0125)Lys;0.675,0.712,0.738,0.728,0.733,0.760,0.760,0.745,(3.0935)+(-0.0783)Asn+(-0.0092)Arg+(-0.0143)Lys+(0.0340)Ile;0.675,0.715,0.712,0.758,0.691,0.706,0.641,0.699,(4.0849)+(-0.1082)Asn+(0.0117)Thr+(0.0053)Pro+(-0.0507)Tyr;0.675,0.714,0.734,0.777,0.712,0.724,0.675,0.722,(4.3789)+(-0.0781)Asn+(-0.0101)Arg+(0.0065)Pro+(-0.0430)Tyr;0.675,0.710,0.721,0.711,0.710,0.759,0.745,0.731,(2.6220)+(-0.0914)Asn+(0.0023)Gly+(-0.0160)Lys+(0.0353)Ile;0.674,0.712,0.690,0.728,0.690,0.713,0.569,0.675,(2.9849)+(0.0035)Thr+(-0.0747)Cit+(0.0057)Pro+(-0.0563)Tyr;0.674,0.712,0.753,0.784,0.749,0.751,0.681,0.741,(3.0766)+(0.0005)Gly+(-0.0077)Tyr+(-0.2012)Met+(0.0036)Leu;0.674,0.712,0.763,0.780,0.742,0.828,0.717,0.767,(2.8126)+(-0.0078)Ala+(-0.0164)Arg+(0.0304)Orn+(-0.0118)Lys;0.674,0.711,0.708,0.749,0.703,0.734,0.589,0.694,(3.4410)+(-0.0704)Cit+(0.0071)Pro+(-0.0499)Tyr+(-0.0070)Leu;0.674,0.713,0.785,0.831,0.752,0.794,0.725,0.776,(5.2451)+(-0.0904)Asn+(-0.0219)Tyr+(-0.0105)Val+(0.0026)Lys;0.674,0.713,0.691,0.710,0.661,0.728,0.676,0.694,(2.7027)+(-0.0120)Arg+(-0.0503)Tyr+(-0.0157)Lys+(0.0458)Ile;0.674,0.710,0.743,0.757,0.702,0.818,0.737,0.754,(1.8692)+(-0.0117)Ala+(-0.0229)Arg+(0.0091)Pro+(0.0192)Orn;0.674,0.713,0.780,0.804,0.775,0.795,0.716,0.773,(5.5912)+(-0.0871)Asn+(-0.0561)Cit+(0.0012)Arg+(-0.0094)Val;0.674,0.711,0.710,0.750,0.636,0.785,0.702,0.718,(2.1327)+(-0.0104)Ala+(0.0112)Pro+(-0.0473)Tyr+(0.0184)Orn;0.674,0.708,0.774,0.784,0.762,0.817,0.739,0.776,(3.4506)+(-0.0088)Ala+(-0.0767)Cit+(-0.0028)Arg+(0.0029)Leu;0.674,0.715,0.7

10,0.742,0.629,0.813,0.720,0.726,(-2.0799)+(0.0221)Ser+(-0.0106)Ala+(-0.0114)Leu+(0.0461)Phe;0.674,0.720,0.671,0.732,0.632,0.770,0.520,0.663,(0.6676)+(0.0167)Ser+(-0.0470)Tyr+(-0.0119)Val+(0.0222)Orn;0.674,0.708,0.678,0.680,0.699,0.757,0.570,0.677,(-0.3086)+(0.0319)Ser+(-0.0134)Thr+(-0.0710)Cit+(-0.0134)Arg;0.674,0.710,0.756,0.770,0.768,0.761,0.694,0.748,(4.6428)+(-0.0914)Asn+(-0.0657)Cit+(0.0048)Pro+(-0.0092)Leu;0.674,0.707,0.677,0.752,0.629,0.639,0.602,0.656,(0.5305)+(0.0061)Pro+(-0.0785)Tyr+(-0.0220)Leu+(0.0748)Phe;0.674,0.716,0.789,0.813,0.756,0.830,0.763,0.791,(4.0709)+(-0.1043)Asn+(0.0105)Thr+(-0.0067)Ala+(-0.0029)Leu;0.674,0.707,0.687,0.652,0.714,0.761,0.674,0.700,(2.3923)+(0.0037)Thr+(-0.0839)Cit+(-0.0247)Lys+(0.0442)Ile;0.673,0.712,0.783,0.816,0.766,0.729,0.766,0.769,(1.1065)+(-0.1471)Asn+(0.0048)Gln+(-0.0212)Leu+(0.0540)Phe;0.673,0.720,0.665,0.711,0.603,0.760,0.604,0.669,(0.5725)+(0.0203)Ser+(-0.0449)Tyr+(-0.0276)Val+(0.0356)Leu;0.673,0.713,0.765,0.798,0.763,0.767,0.678,0.752,(3.6654)+(-0.0075)Arg+(-0.0067)Tyr+(-0.1755)Met+(-0.0005)Lys;0.673,0.714,0.789,0.827,0.745,0.810,0.766,0.787,(4.5672)+(-0.0748)Asn+(-0.0051)Ala+(-0.0239)Tyr+(0.0008)Leu;0.673,0.716,0.775,0.814,0.760,0.784,0.693,0.763,(3.7522)+(-0.0021)Tyr+(-0.0069)Val+(-0.1769)Met+(0.0017)Lys;0.673,0.716,0.730,0.782,0.723,0.735,0.600,0.710,(4.5963)+(-0.0966)Asn+(0.0170)Thr+(-0.0154)Arg+(-0.0437)Tyr;0.673,0.713,0.770,0.805,0.754,0.793,0.694,0.761,(5.0232)+(-0.1202)Asn+(0.0134)Thr+(-0.0135)Val+(-0.0016)Lys;0.673,0.713,0.756,0.760,0.773,0.768,0.704,0.751,(4.6499)+(-0.0801)Asn+(-0.0667)Cit+(0.0038)Pro+(-0.0073)Lys;0.673,0.716,0.778,0.818,0.768,0.788,0.684,0.764,(3.9963)+(-0.0089)Arg+(-0.0073)Val+(-0.1710)Met+(0.0036)Lys;0.673,0.712,0.698,0.775,0.651,0.662,0.615,0.676,(0.3275)+(0.0006)Gln+(-0.0737)Tyr+(-0.0192)Leu+(0.0759)Phe;0.673,0.709,0.753,0.782,0.749,0.714,0.713,0.739,(2.1196)+(-0.1270)Asn+(0.0023)Gly+(-0.0204)Leu+(0.0592)Phe;0.672,0.

715,0.778,0.818,0.770,0.792,0.679,0.765,(4.0549)+(0.0004)Gly+(-0.0074)Arg+(-0.0063)Val+(-0.1627)Met;0.672,0.713,0.704,0.674,0.720,0.773,0.699,0.717,(1.3251)+(0.0034)Gln+(-0.0888)Cit+(-0.0262)Lys+(0.0443)Ile;0.672,0.715,0.777,0.787,0.769
,0.757,0.785,0.774,(1.1934)+(-0.1265)Asn+(0.0051)Gln+(-0.0139)Lys+(0.0381)Phe;0.672,0.714,0.663,0.671,0.687,0.782,0.507,0.662,(-0.1913)+(0.0294)Ser+(-0.0234)Arg+(0.0201)Orn+(-0.0204)Lys;0.672,0.716,0.642,0.681,0.624,0.743,0.504,0.638,(0.4541)+(0.0273)Ser+(0.0064)Pro+(-0.0455)Tyr+(-0.0170)Lys;0.672,0.710,0.765,0.798,0.737,0.842,0.682,0.765,(2.9793)+(-0.0065)Ala+(-0.0223)Arg+(-0.0121)Val+(0.0349)Orn;0.672,0.705,0.770,0.791,0.755,0.826,0.708,0.770,(3.5628)+(0.0051)Thr+(-0.0080)Ala+(-0.0758)Cit+(-0.0044)Val;0.672,0.717,0.742,0.752,0.764,0.752,0.660,0.732,(4.2779)+(-0.1103)Asn+(0.0111)Thr+(-0.0693)Cit+(-0.0044)Arg;0.672,0.709,0.704,0.672,0.721,0.771,0.701,0.716,(2.6175)+(-0.0807)Cit+(-0.0040)Pro+(-0.0231)Lys+(0.0497)Ile;0.672,0.718,0.789,0.810,0.760,0.838,0.756,0.791,(4.3007)+(-0.0948)Asn+(0.0125)Thr+(-0.0065)Ala+(-0.0067)Lys;0.672,0.715,0.800,0.828,0.768,0.830,0.771,0.799,(4.0875)+(-0.0788)Asn+(0.0014)Gly+(-0.0060)Ala+(-0.0082)Arg;0.672,0.712,0.728,0.762,0.701,0.765,0.671,0.725,(3.7084)+(-0.0591)Cit+(-0.0375)Tyr+(-0.0231)Val+(0.0314)Leu;0.672,0.709,0.725,0.767,0.697,0.716,0.681,0.715,(4.0371)+(-0.0903)Asn+(0.0006)Gly+(0.0061)Pro+(-0.0444)Tyr;0.672,0.709,0.751,0.773,0.700,0.787,0.773,0.758,(1.0194)+(-0.0125)Ala+(-0.0218)Arg+(0.0092)Pro+(0.0348)Phe;0.672,0.712,0.758,0.785,0.755,0.762,0.690,0.748,(3.3618)+(-0.0075)Tyr+(-0.1892)Met+(-0.0036)Lys+(0.0052)Leu;0.672,0.713,0.720,0.739,0.701,0.802,0.650,0.723,(2.1632)+(-0.0265)Arg+(-0.0343)Val+(0.0322)Orn+(0.0339)Leu;0.671,0.711,0.760,0.791,0.759,0.759,0.680,0.747,(3.4971)+(-0.0077)Arg+(-0.0076)Tyr+(-0.1852)Met+(0.0033)Leu;0.671,0.710,0.690,0.650,0.715,0.755,0.695,0.704,(1.8169)+(-0.0841)Cit+

(-0.0255)Lys+(0.0404)Ile+(0.0238)Phe;0.671,0.710,0.714,0.785,0.669,0.660,0.657,0.693,(1.1008)+(-0.0026)Gly+(-0.0735)Tyr+(-0.0188)Leu+(0.0765)Phe;0.671,0.712,0.731,0.778,0.713,0.725,0.649,0.716,(4.2926)+(-0.1069)Asn+(-0.0006)Gly+(0.0135)Thr+(-0.0452)Tyr;0.671,0.710,0.798,0.825,0.761,0.831,0.783,0.800,(3.9739)+(-0.0874)Asn+(0.0012)Gly+(-0.0062)Ala+(-0.0014)Leu;0.671,0.707,0.784,0.805,0.768,0.831,0.727,0.783,(3.9324)+(-0.0072)Ala+(-0.0692)Cit+(-0.0035)Arg+(-0.0041)Val;0.671,0.713,0.709,0.769,0.671,0.769,0.586,0.699,(2.4517)+(-0.0003)Gln+(-0.0458)Tyr+(-0.0132)Val+(0.0299)Orn;0.671,0.719,0.674,0.652,0.667,0.762,0.682,0.691,(-0.3006)+(0.0395)Ser+(-0.0091)Gly+(0.0183)Orn+(-0.0263)Lys;0.671,0.709,0.743,0.781,0.681,0.803,0.728,0.749,(3.3721)+(-0.0092)Ala+(0.0126)Pro+(-0.0354)Tyr+(-0.0083)Lys;0.671,0.713,0.736,0.774,0.711,0.730,0.692,0.727,(4.3861)+(-0.0799)Asn+(0.0064)Pro+(-0.0411)Tyr+(-0.0050)Lys;0.671,0.707,0.718,0.761,0.702,0.751,0.614,0.707,(3.8553)+(-0.0633)Cit+(0.0085)Pro+(-0.0443)Tyr+(-0.0095)Val;0.671,0.710,0.705,0.705,0.676,0.794,0.704,0.720,(2.1742)+(-0.0334)Val+(0.0317)Orn+(-0.0184)Lys+(0.0420)Leu;0.671,0.711,0.742,0.782,0.662,0.866,0.714,0.756,(0.1975)+(0.0265)Ser+(-0.0106)Thr+(-0.0067)Ala+(-0.0068)Val;0.671,0.710,0.739,0.724,0.726,0.765,0.784,0.750,(2.9500)+(-0.0835)Asn+(-0.0020)Pro+(-0.0162)Lys+(0.0369)Ile;0.671,0.711,0.714,0.757,0.696,0.819,0.561,0.708,(0.5246)+(0.0278)Ser+(-0.0068)Thr+(-0.0244)Arg+(-0.0114)Val;0.671,0.708,0.694,0.658,0.717,0.761,0.693,0.707,(2.4540)+(-0.0826)Cit+(0.0013)Arg+(-0.0236)Lys+(0.0445)Ile;0.671,0.715,0.662,0.675,0.675,0.774,0.522,0.662,(-0.2347)+(0.0314)Ser+(-0.0224)Arg+(0.0036)Pro+(-0.0184)Lys;0.670,0.702,0.692,0.714,0.708,0.783,0.539,0.686,(1.0024)+(0.0251)Ser+(-0.0585)Cit+(-0.0183)Arg+(-0.0099)Val;0.670,0.702,0.659,0.651,0.673,0.730,0.600,0.664,(-0.9161)+(0.0325)Ser+(-0.0196)Thr+(-0.0825)Cit+(0.0032)Pro;0.670,0.719,0.741,0.791,0.725,0.744,0.640,0.725,(4.4894)+(-0

.1066)Asn+(0.0134)Thr+(-0.0408)Tyr+(-0.0052)Leu;0.670,0.714,0.675,0.662,0.661,0.752,0.687,0.690,(-0.2350)+(0.0407)Ser+(-0.0088)Gly+(0.0025)Pro+(-0.0241)Lys;0.670,0.722,0.722,0.735,0.649,0.838,0.759,0.745,(-0.9862)+(0.0287)Ser+(-0.0178)Thr+(-0.0089)Ala+(0.0192)Orn;0.670,0.710,0.779,0.796,0.745,0.815,0.777,0.783,(1.6402)+(-0.0088)Ala+(-0.0139)Arg+(-0.0113)Lys+(0.0487)Phe;0.670,0.711,0.654,0.642,0.703,0.765,0.505,0.654,(-0.4630)+(0.0182)Ser+(-0.1105)Cit+(0.0349)Orn+(-0.0155)Leu;0.670,0.712,0.694,0.740,0.687,0.675,0.602,0.676,(1.6484)+(-0.0680)Cit+(-0.0082)Arg+(-0.0685)Tyr+(0.0647)Phe;0.670,0.712,0.801,0.825,0.765,0.838,0.784,0.803,(4.1549)+(-0.0797)Asn+(0.0011)Gly+(-0.0059)Ala+(-0.0040)Lys;0.670,0.701,0.727,0.776,0.647,0.791,0.720,0.734,(2.1729)+(0.0010)Gln+(-0.0101)Ala+(0.0122)Pro+(-0.0438)Tyr;0.670,0.708,0.724,0.744,0.718,0.780,0.640,0.721,(0.2168)+(0.0359)Ser+(-0.0081)Gly+(-0.0302)Arg+(-0.0137)Leu;0.670,0.716,0.707,0.756,0.630,0.832,0.648,0.716,(0.2723)+(0.0225)Ser+(-0.0072)Ala+(-0.0363)Tyr+(0.0017)Leu;0.670,0.708,0.702,0.745,0.694,0.813,0.525,0.694,(0.7894)+(0.0257)Ser+(-0.0006)Gln+(-0.0271)Arg+(-0.0124)Val;0.670,0.706,0.735,0.778,0.661,0.783,0.740,0.741,(2.9863)+(-0.0020)Gly+(-0.0099)Ala+(0.0124)Pro+(-0.0434)Tyr;0.670,0.707,0.765,0.785,0.762,0.729,0.746,0.756,(2.6826)+(-0.1077)Asn+(-0.0069)Lys+(-0.0166)Leu+(0.0581)Phe;0.670,0.721,0.651,0.689,0.634,0.769,0.502,0.649,(0.5043)+(0.0248)Ser+(-0.0425)Tyr+(0.0229)Orn+(-0.0189)Lys;0.670,0.699,0.664,0.659,0.680,0.737,0.590,0.667,(-0.4986)+(0.0320)Ser+(-0.0005)Gln+(-0.0172)Thr+(-0.0805)Cit;0.669,0.703,0.730,0.776,0.715,0.743,0.632,0.717,(2.2174)+(-0.0012)Gly+(0.0033)Gln+(-0.0766)Cit+(-0.0508)Tyr;0.669,0.709,0.780,0.823,0.729,0.803,0.757,0.778,(1.5193)+(-0.0075)Ala+(-0.0193)Arg+(-0.0132)Val+(0.0622)Phe;0.669,0.704,0.760,0.769,0.723,0.817,0.770,0.770,(3.5042)+(-0.0081)Ala+(-0.0663)Cit+(-0.0223)Val+(0.0361)Leu;0.669,0.708,0.718,0.709,0.758,0.782,0.614,0.716,(1

.9209)+(-0.0100)Thr+(-0.1067)Cit+(0.0480)Orn+(-0.0162)Leu;0.669,0.710,0.777,0.811,0.722,0.812,0.781,0.781,(1.4174)+(-0.0076)Ala+(-0.0108)Val+(-0.0103)Lys+(0.0599)Phe;0.669,0.712,0.785,0.830,0.758,0.800,0.710,0.774,(5.4290)+(-0.0789)Asn+(-0.0062)Arg+(-0.0196)Tyr+(-0.0095)Val;0.669,0.717,0.690,0.706,0.604,0.806,0.741,0.714,(-2.3351)+(0.0218)Ser+(-0.0120)Ala+(0.0048)Orn+(0.0322)Phe;0.669,0.712,0.770,0.811,0.762,0.799,0.657,0.757,(5.3061)+(-0.1118)Asn+(0.0161)Thr+(-0.0137)Arg+(-0.0137)Val;0.669,0.712,0.705,0.741,0.707,0.730,0.586,0.691,(3.3704)+(-0.0655)Cit+(-0.0076)Arg+(0.0061)Pro+(-0.0510)Tyr;0.669,0.705,0.676,0.665,0.704,0.744,0.601,0.678,(-0.2980)+(0.0334)Ser+(-0.0055)Gly+(-0.0658)Cit+(-0.0218)Arg;0.669,0.710,0.681,0.670,0.666,0.759,0.685,0.695,(0.1775)+(0.0412)Ser+(-0.0086)Gly+(-0.0009)Gln+(-0.0223)Lys;0.669,0.717,0.693,0.743,0.664,0.799,0.543,0.687,(1.0870)+(0.0251)Ser+(-0.0320)Tyr+(-0.0059)Val+(-0.0125)Lys;0.669,0.704,0.716,0.766,0.708,0.735,0.589,0.700,(2.1310)+(0.0028)Gln+(0.0017)Thr+(-0.0786)Cit+(-0.0510)Tyr;0.669,0.704,0.733,0.753,0.644,0.817,0.805,0.755,(2.1692)+(-0.0104)Ala+(0.0109)Pro+(-0.0296)Val+(0.0374)Leu;0.669,0.712,0.718,0.719,0.655,0.828,0.767,0.742,(0.1080)+(0.0336)Ser+(-0.0070)Gly+(-0.0018)Gln+(-0.0093)Ala;0.669,0.707,0.752,0.776,0.668,0.810,0.819,0.768,(0.8773)+(-0.0090)Ala+(-0.0285)Val+(0.0324)Leu+(0.0444)Phe;0.669,0.710,0.723,0.758,0.653,0.861,0.679,0.738,(0.0995)+(0.0181)Ser+(-0.0081)Ala+(-0.0110)Val+(0.0202)Orn;0.669,0.715,0.779,0.819,0.770,0.790,0.683,0.766,(4.1346)+(-0.0072)Arg+(-0.0016)Tyr+(-0.0063)Val+(-0.1592)Met;0.669,0.705,0.707,0.698,0.701,0.751,0.708,0.714,(0.8921)+(0.0022)Gln+(-0.0198)Arg+(-0.0229)Lys+(0.0360)Ile;0.669,0.707,0.725,0.709,0.718,0.754,0.759,0.735,(2.9163)+(-0.0962)Asn+(0.0068)Thr+(-0.0174)Lys+(0.0328)Ile;0.668,0.711,0.748,0.753,0.762,0.747,0.705,0.742,(4.1650)+(-0.0950)Asn+(-0.0684)Cit+(-0.0009)Arg+(0.0030)Pro;0.668,0.710,0.746,0.755,0.747,0.739,0.726,

0.742,(2.2347)+(-0.1074)Asn+(0.0022)Gly+(-0.0123)Lys+(0.0428)Phe;0.668,0.710,0.763,0.791,0.721,0.848,0.715,0.769,(2.7127)+(-0.0067)Ala+(-0.0092)Val+(0.0324)Orn+(-0.0113)Lys;0.668,0.711,0.806,0.831,0.776,0.833,0.786,0.806,(4.3923)+(-0.0721)Asn+(-0.0058)Ala+(-0.0065)Arg+(-0.0028)Lys;0.668,0.706,0.765,0.796,0.738,0.773,0.730,0.759,(4.9297)+(-0.1083)Asn+(0.0082)Pro+(-0.0159)Val+(0.0012)Lys;0.668,0.711,0.682,0.689,0.624,0.831,0.676,0.705,(-0.1474)+(0.0249)Ser+(-0.0032)Gln+(-0.0099)Ala+(0.0138)Orn;0.668,0.709,0.644,0.703,0.598,0.732,0.520,0.638,(0.6988)+(0.0196)Ser+(0.0083)Pro+(-0.0504)Tyr+(-0.0119)Val;0.668,0.705,0.764,0.798,0.743,0.774,0.709,0.756,(5.1919)+(-0.0954)Asn+(-0.0090)Arg+(0.0084)Pro+(-0.0151)Val;0.668,0.714,0.719,0.766,0.695,0.783,0.597,0.711,(3.0386)+(-0.0392)Tyr+(-0.0104)Val+(0.0345)Orn+(-0.0109)Lys;0.668,0.706,0.747,0.799,0.727,0.779,0.628,0.733,(2.6684)+(0.0032)Gln+(-0.0706)Cit+(-0.0401)Tyr+(-0.0072)Val;0.668,0.713,0.719,0.740,0.646,0.848,0.726,0.740,(-0.2032)+(0.0304)Ser+(-0.0014)Gln+(-0.0125)Thr+(-0.0080)Ala;0.668,0.706,0.741,0.777,0.660,0.787,0.781,0.751,(0.7912)+(-0.0109)Ala+(0.0103)Pro+(-0.0149)Val+(0.0476)Phe;0.667,0.697,0.680,0.685,0.693,0.754,0.585,0.679,(-0.1241)+(0.0302)Ser+(-0.0157)Thr+(-0.0785)Cit+(-0.0061)Leu;0.667,0.705,0.773,0.802,0.776,0.725,0.725,0.757,(2.7733)+(-0.1051)Asn+(-0.0136)Arg+(-0.0201)Leu+(0.0598)Phe;0.667,0.709,0.781,0.800,0.732,0.825,0.800,0.789,(0.8017)+(0.0016)Gln+(-0.0092)Ala+(-0.0162)Lys+(0.0446)Phe;0.667,0.708,0.735,0.746,0.665,0.838,0.779,0.757,(-0.1925)+(0.0313)Ser+(-0.0075)Gly+(-0.0091)Ala+(-0.0039)Leu;0.667,0.709,0.777,0.790,0.737,0.819,0.797,0.786,(1.3774)+(-0.0002)Gly+(-0.0091)Ala+(-0.0149)Lys+(0.0463)Phe;0.667,0.711,0.693,0.770,0.650,0.655,0.608,0.671,(0.5062)+(0.0012)Thr+(-0.0740)Tyr+(-0.0191)Leu+(0.0765)Phe;0.667,0.710,0.693,0.687,0.668,0.764,0.709,0.707,(-0.1097)+(0.0435)Ser+(-0.0083)Gly+(-0.0096)Thr+(-0.0192)Lys;0.667,0.707,0.775,0.803,0.762,0

.781,0.723,0.767,(2.3250)+(-0.1354)Asn+(0.0042)Gln+(0.0204)Orn+(-0.0152)Leu;0.667,0.710,0.683,0.707,0.681,0.784,0.550,0.680,(-0.0912)+(0.0328)Ser+(-0.0064)Thr+(-0.0187)Arg+(-0.0152)Lys;0.667,0.711,0.772,0.787,0.729,0.819,0.786,0.780,(1.2712)+(0.0030)Thr+(-0.0093)Ala+(-0.0161)Lys+(0.0461)Phe;0.667,0.714,0.720,0.722,0.648,0.828,0.786,0.746,(-0.6931)+(0.0301)Ser+(-0.0074)Gly+(-0.0103)Ala+(0.0101)Orn;0.667,0.702,0.730,0.781,0.719,0.753,0.603,0.714,(2.2766)+(0.0031)Gln+(-0.0768)Cit+(-0.0466)Tyr+(-0.0043)Leu;0.667,0.709,0.765,0.772,0.777,0.778,0.710,0.759,(4.7911)+(-0.0799)Asn+(-0.0689)Cit+(0.0043)Arg+(-0.0071)Lys;0.667,0.709,0.753,0.791,0.746,0.793,0.634,0.741,(2.6533)+(0.0045)Gln+(-0.0762)Cit+(-0.0380)Tyr+(-0.0119)Lys;0.667,0.702,0.702,0.741,0.699,0.747,0.570,0.689,(3.1086)+(-0.0171)Arg+(-0.0447)Tyr+(0.0323)Orn+(-0.0122)Lys;0.667,0.710,0.803,0.825,0

.769,0.836,0.796,0.807,(4.2783)+(-0.0767)Asn+(-0.0060)Ala+(-0.0043)Lys+(0.0006)Leu;0.666,0.704,0.764,0.786,0.718,0.825,0.755,0.771,(2.9811)+(-0.0103)Ala+(-0.0135)Arg+(0.0109)Pro+(-0.0086)Lys;0.666,0.702,0.753,0.777,0.751,0.700,0.736,0.741,(2.4147)+(-0.1231)Asn+(0.0035)Pro+(-0.0224)Leu+(0.0554)Phe;0.666,0.708,0.756,0.797,0.673,0.827,0.773,0.767,(3.0228)+(-0.0063)Ala+(-0.0276)Tyr+(-0.0267)Val+(0.0405)Leu;0.666,0.706,0.764,0.774,0.728,0.827,0.765,0.774,(2.6181)+(-0.0016)Gly+(-0.0082)Ala+(0.0279)Orn+(-0.0154)Lys;0.666,0.705,0.580,0.621,0.561,0.670,0.448,0.575,(0.2047)+(0.0265)Ser+(-0.0031)Gln+(0.0059)Pro+(-0.0608)Tyr;0.666,0.705,0.732,0.759,0.666,0.817,0.736,0.745,(1.8365)+(-0.0102)Ala+(0.0107)Pro+(-0.0137)Val+(0.0222)Orn;0.666,0.710,0.720,0.752,0.722,0.754,0.610,0.709,(3.9873)+(-0.0682)Cit+(0.0064)Pro+(-0.0429)Tyr+(-0.0094)Lys;0.666,0.707,0.766,0.782,0.777,0.769,0.701,0.757,(4.7375)+(-0.0878)Asn+(-0.0651)Cit+(0.0001)Arg+(-0.0060)Leu;0.666,0.711,0.716,0.773,0.677,0.772,0.607,0.707,(2.4322)+(-0.0032)Thr+(-0.0442)Tyr+(-0.0130

)Val+(0.0311)Orn;0.666,0.711,0.617,0.600,0.615,0.714,0.600,0.632,(-2.8642)+(0.0367)Ser+(-0.0193)Thr+(-0.0280)Arg+(0.0306)Ile;0.666,0.712,0.689,0.682,0.671,0.764,0.690,0.702,(-0.0128)+(0.0402)Ser+(-0.0088)Gly+(-0.0225)Lys+(-0.0010)Leu;0.666,0.697,0.690,0.704,0.692,0.770,0.594,0.690,(0.5375)+(0.0280)Ser+(-0.0124)Thr+(-0.0714)Cit+(-0.0082)Val;0.666,0.700,0.676,0.692,0.708,0.763,0.506,0.667,(0.2950)+(0.0256)Ser+(-0.0677)Cit+(-0.0195)Arg+(-0.0089)Leu;0.665,0.704,0.731,0.779,0.658,0.793,0.714,0.736,(2.7767)+(-0.0096)Ala+(0.0129)Pro+(-0.0410)Tyr+(-0.0042)Leu;0.665,0.717,0.675,0.719,0.651,0.772,0.539,0.670,(0.4951)+(0.0288)Ser+(-0.0047)Thr+(-0.0346)Tyr+(-0.0142)Lys;0.665,0.709,0.770,0.782,0.784,0.779,0.701,0.762,(4.9169)+(-0.0781)Asn+(-0.0647)Cit+(-0.0051)Lys+(-0.0029)Leu;0.665,0.708,0.609,0.576,0.654,0.717,0.528,0.619,(-1.8372)+(0.0277)Ser+(-0.0769)Cit+(-0.0248)Arg+(0.0277)Ile;0.665,0.707,0.758,0.773,0.720,0.829,0.746,0.767,(2.3512)+(-0.0082)Ala+(0.0271)Orn+(-0.0155)Lys+(0.0001)Leu;0.665,0.707,0.778,0.798,0.736,0.815,0.786,0.784,(1.3111)+(-0.0087)Ala+(-0.0138)Lys+(-0.0051)Leu+(0.0508)Phe;0.665,0.709,0.760,0.774,0.723,0.828,0.750,0.769,(2.3773)+(-0.0012)Thr+(-0.0081)Ala+(0.0277)Orn+(-0.0151)Lys;0.664,0.699,0.761,0.789,0.709,0.814,0.755,0.767,(1.6000)+(0.0017)Gln+(-0.0114)Ala+(-0.0215)Arg+(0.0100)Pro;0.664,0.705,0.777,0.805,0.730,0.809,0.775,0.780,(0.3610)+(0.0018)Gln+(-0.0102)Ala+(-0.0233)Arg+(0.0390)Phe;0.664,0.709,0.591,0.542,0.665,0.717,0.474,0.599,(-0.5892)+(0.0247)Ser+(-0.0038)Gln+(-0.1092)Cit+(0.0309)Orn;0.664,0.704,0.726,0.772,0.649,0.788,0.718,0.732,(2.5592)+(0.0005)Thr+(-0.0100)Ala+(0.0123)Pro+(-0.0429)Tyr;0.664,0.707,0.760,0.808,0.734,0.757,0.692,0.748,(4.4191)+(-0.0850)Asn+(0.0004)Gly+(-0.0327)Tyr+(-0.0044)Leu;0.664,0.709,0.806,0.833,0.775,0.827,0.785,0.805,(4.3260)+(-0.0757)Asn+(-0.0059)Ala+(-0.0078)Arg+(-0.0014)Leu;0.664,0.711,0.732,0.777,0.718,0.743,0.633,0.718,(4.5762)+(-0.0979)Asn+(0.0153)Th

r+(-0.0405)Tyr+(-0.0069)Lys;0.664,0.702,0.762,0.781,0.730,0.822,0.734,0.767,(2.0929)+(-0.0008)Gly+(-0.0092)Ala+(-0.0223)Arg+(0.0242)Orn;0.664,0.708,0.721,0.758,0.732,0.775,0.561,0.707,(4.0595)+(0.0110)Thr+(-0.0717)Cit+(-0.0408)Tyr+(-0.0121)Lys;0.664,0.704,0.771,0.795,0.729,0.808,0.766,0.774,(0.9025)+(0.0004)Gly+(-0.0100)Ala+(-0.0210)Arg+(0.0416)Phe;0.664,0.701,0.758,0.775,0.706,0.820,0.778,0.770,(2.7457)+(-0.0008)Gly+(-0.0106)Ala+(0.0105)Pro+(-0.0121)Lys;0.664,0.717,0.678,0.699,0.668,0.806,0.551,0.681,(0.2282)+(0.0234)Ser+(-0.0108)Val+(0.0236)Orn+(-0.0192)Lys;0.664,0.711,0.673,0.692,0.684,0.783,0.521,0.670,(0.1217)+(0.0313)Ser+(-0.0005)Gln+(-0.0208)Arg+(-0.0169)Lys;0.664,0.705,0.727,0.724,0.736,0.737,0.707,0.726,(2.4293)+(-0.1048)Asn+(-0.0173)Arg+(0.0143)Orn+(0.0187)Ile;0.663,0.715,0.663,0.707,0.646,0.766,0.512,0.657,(0.7968)+(0.0279)Ser+(-0.0008)Gln+(-0.0368)Tyr+(-0.0151)Lys;0.663,0.708,0.659,0.653,0.663,0.716,0.622,0.663,(-1.9284)+(0.0362)Ser+(-0.0069)Gly+(-0.0354)Arg+(0.0138)Phe;0.663,0.705,0.719,0.754,0.652,0.866,0.661,0.733,(0.7610)+(0.0237)Ser+(-0.0019)Gln+(-0.0072)Ala+(-0.0080)Val;0.663,0.711,0.639,0.632,0.627,0.739,0.613,0.653,(-2.2247)+(0.0362)Ser+(-0.0130)Thr+(-0.0233)Lys+(0.0406)Phe;0.663,0.706,0.759,0.771,0.749,0.751,0.753,0.756,(1.1614)+(-0.1270)Asn+(0.0054)Gln+(-0.0203)Arg+(0.0215)Ile;0.663,0.707,0.691,0.750,0.641,0.781,0.574,0.687,(0.5413)+(0.0249)Ser+(-0.0087)Thr+(-0.0357)Tyr+(-0.0083)Val;0.663,0.712,0.729,0.754,0.647,0.850,0.745,0.749,(-0.6379)+(0.0289)Ser+(-0.0137)Thr+(-0.0082)Ala+(0.0000)Leu;0.663,0.699,0.683,0.683,0.625,0.758,0.751,0.704,(-0.1763)+(0.0305)Ser+(-0.0091)Gly+(-0.0326)Val+(0.0332)Leu;0.663,0.706,0.598,0.636,0.584,0.697,0.458,0.594,(0.2454)+(0.0250)Ser+(-0.0033)Gln+(-0.0579)Tyr+(0.0155)Orn;0.663,0.705,0.724,0.774,0.719,0.762,0.573,0.707,(3.7083)+(0.0060)Thr+(-0.0664)Cit+(-0.0402)Tyr+(-0.0074)Val;0.663,0.703,0.764,0.790,0.727,0.826,0.728,0.768,(1.4634)+(0.0014)Gln+(-0.

0094)Ala+(-0.0244)Arg+(0.0222)Orn;0.663,0.700,0.722,0.764,0.722,0.744,0.594,0.706,(3.4694)+(0.0000)Gly+(-0.0699)Cit+(-0.0422)Tyr+(-0.0033)Leu;0.662,0.705,0.747,0.753,0.760,0.772,0.686,0.743,(3.5800)+(-0.0859)Asn+(-0.0121)Arg+(0.0277)Orn+(-0.0110)Lys;0.662,0.701,0.668,0.727,0.646,0.672,0.557,0.650,(0.9567)+(-0.0251)Arg+(-0.0731)Tyr+(0.0201)Orn+(0.0522)Phe;0.662,0.697,0.704,0.748,0.706,0.722,0.572,0.687,(3.2110)+(-0.0006)Gly+(0.0052)Thr+(-0.0727)Cit+(-0.0500)Tyr;0.662,0.706,0.751,0.753,0.753,0.733,0.757,0.749,(2.5509)+(-0.1017)Asn+(0.0014)Pro+(-0.0127)Lys+(0.0394)Phe;0.662,0.706,0.755,0.802,0.736,0.750,0.676,0.741,(4.3818)+(-0.0780)Asn+(0.0008)Gly+(-0.0088)Arg+(-0.0335)Tyr;0.662,0.705,0.754,0.798,0.730,0.752,0.690,0.742,(4.4016)+(-0.0793)Asn+(0.0005)Gly+(-0.0325)Tyr+(-0.0040)Lys;0.662,0.701,0.747,0.769,0.745,0.763,0.681,0.740,(3.4047)+(-0.1150)Asn+(0.0006)Gly+(0.0250)Orn+(-0.0148)Leu;0.662,0.706,0.764,0.777,0.757,0.782,0.733,0.762,(2.1773)+(-0.1167)Asn+(0.0044)Gln+(0.0208)Orn+(-0.0137)Lys;0.662,0.700,0.708,0.756,0.711,0.734,0.557,0.690,(3.2972)+(0.0049)Thr+(-0.0724)Cit+(-0.0466)Tyr+(-0.0035)Leu;0.662,0.702,0.627,0.618,0.671,0.705,0.506,0.625,(-1.8621)+(0.0279)Ser+(-0.0760)Cit+(-0.0240)Arg+(0.0265)Phe;0.662,0.704,0.756,0.765,0.759,0.736,0.740,0.750,(2.7164)+(-0.0938)Asn+(-0.0095)Arg+(-0.0106)Lys+(0.0414)Phe;0.662,0.707,0.664,0.721,0.627,0.765,0.519,0.658,(1.1269)+(0.0229)Ser+(-0.0017)Gln+(-0.0400)Tyr+(-0.0090)Val;0.662,0.717,0.659,0.697,0.641,0.761,0.523,0.655,(0.4320)+(0.0277)Ser+(-0.0393)Tyr+(-0.0172)Lys+(0.0044)Leu;0.662,0.703,0.761,0.781,0.729,0.824,0.729,0.766,(2.0104)+(-0.0012)Thr+(-0.0091)Ala+(-0.0221)Arg+(0.0246)Orn;0.662,0.705,0.772,0.798,0.767,0.732,0.743,0.760,(0.8465)+(-0.1354)Asn+(0.0056)Gln+(-0.0199)Arg+(0.0307)Phe;0.662,0.705,0.762,0.781,0.719,0.833,0.752,0.771,(1.9433)+(0.0012)Gln+(-0.0083)Ala+(0.0258)Orn+(-0.0162)Lys;0.661,0.706,0.692,0.697,0.677,0.743,0.676,0.698,(-1.0000)+(0.0420)Ser

+(-0.0072)Gly+(-0.0144)Thr+(-0.0249)Arg;0.661,0.707,0.752,0.776,0.755,0.705,0.717,0.738,(2.3911)+(-0.1360)Asn+(0.0075)Thr+(-0.0217)Leu+(0.0569)Phe;0.661,0.704,0.648,0.690,0.617,0.730,0.544,0.645,(-0.0102)+(0.0299)Ser+(-0.0016)Gln+(-0.0107)Thr+(-0.0446)Tyr;0.661,0.703,0.619,0.609,0.621,0.725,0.562,0.629,(-2.1039)+(0.0315)Ser+(0.0009)Pro+(-0.0285)Lys+(0.0361)Phe;0.661,0.705,0.608,0.591,0.620,0.723,0.546,0.620,(-1.4197)+(0.0353)Ser+(-0.0028)Gln+(-0.0267)Lys+(0.0411)Phe;0.661,0.705,0.706,0.761,0.703,0.756,0.530,0.688,(2.8978)+(-0.0237)Arg+(-0.0472)Tyr+(0.0309)Orn+(-0.0110)Leu;0.661,0.695,0.654,0.687,0.632,0.690,0.587,0.649,(1.6736)+(-0.0243)Arg+(-0.0634)Tyr+(0.0159)Orn+(0.0317)Ile;0.661,0.701,0.784,0.825,0.764,0.797,0.705,0.773,(5.0158)+(-0.0903)Asn+(0.0011)Gly+(-0.0078)Arg+(-0.0115)Val;0.661,0.700,0.765,0.805,0.695,0.802,0.782,0.771,(0.6382)+(0.0000)Gln+(-0.0085)Ala+(-0.0136)Val+(0.0551)Phe;0.661,0.706,0.738,0.744,0.754,0.722,0.699,0.730,(2.1754)+(-0.1126)Asn+(-0.0174)Arg+(0.0171)Orn+(0.0267)Phe;0.661,0.706,0.629,0.604,0.638,0.710,0.618,0.643,(-2.3082)+(0.0361)Ser+(-0.0064)Gly+(-0.0369)Arg+(0.0205)Ile;0.661,0.692,0.695,0.699,0.692,0.760,0.647,0.700,(0.7559)+(0.0298)Ser+(-0.0064)Gly+(-0.0677)Cit+(-0.0113)Val;0.661,0.697,0.757,0.780,0.707,0.817,0.755,0.765,(2.2663)+(-0.0001)Gly+(-0.0113)Ala+(-0.0190)Arg+(0.0105)Pro;0.661,0.703,0.669,0.664,0.674,0.731,0.626,0.674,(-1.2546)+(0.0359)Ser+(-0.0073)Gly+(-0.0335)Arg+(0.0006)Pro;0.661,0.712,0.680,0.705,0.688,0.790,0.521,0.676,(0.0819)+(0.0304)Ser+(-0.0214)Arg+(-0.0164)Lys+(-0.0017)Leu;0.661,0.701,0.755,0.773,0.702,0.821,0.769,0.766,(2.6145)+(0.0002)Thr+(-0.0106)Ala+(0.0105)Pro+(-0.0124)Lys;0.661,0.699,0.690,0.745,0.627,0.730,0.651,0.688,(2.6474)+(0.0072)Pro+(-0.0483)Tyr+(-0.0277)Val+(0.0308)Leu;0.661,0.704,0.735,0.785,0.726,0.762,0.603,0.719,(2.1779)+(0.0039)Gln+(-0.0694)Cit+(-0.0114)Arg+(-0.0468)Tyr;0.661,0.699,0.768,0.806,0.699,0.800,0.790,0.774,(0.8144)+(-0.0

008)Gly+(-0.0084)Ala+(-0.0135)Val+(0.0548)Phe;0.661,0.707,0.618,0.603,0.628,0.729,0.560,0.630,(-2.1308)+(0.0304)Ser+(0.0123)Orn+(-0.0300)Lys+(0.0340)Phe;0.661,0.702,0.783,0.822,0.757,0.795,0.723,0.774,(4.8135)+(-0.1018)Asn+(0.0010)Gly+(-0.0124)Val+(0.0011)Lys;0.661,0.709,0.774,0.793,0.702,0.856,0.816,0.792,(3.1218)+(-0.0068)Ala+(-0.0279)Val+(-0.0102)Lys+(0.0449)Leu;0.660,0.702,0.749,0.764,0.752,0.772,0.689,0.744,(3.7253)+(-0.0979)Asn+(0.0285)Orn+(-0.0088)Lys+(-0.0102)Leu;0.660,0.701,0.759,0.781,0.701,0.822,0.774,0.769,(2.0764)+(0.0015)Gln+(-0.0107)Ala+(0.0102)Pro+(-0.0135)Lys;0.660,0.705,0.629,0.672,0.586,0.700,0.553,0.628,(-0.7432)+(0.0293)Ser+(-0.0146)Thr+(0.0065)Pro+(-0.0533)Tyr;0.660,0.702,0.662,0.654,0.673,0.731,0.611,0.667,(-0.7674)+(0.0374)Ser+(-0.0070)Gly+(-0.0014)Gln+(-0.0314)Arg;0.660,0.702,0.711,0.732,0.695,0.752,0.662,0.710,(0.8169)+(-0.0167)Val+(0.0276)Orn+(-0.0172)Lys+(0.0453)Phe;0.660,0.699,0.756,0.776,0.703,0.822,0.767,0.767,(2.6492)+(-0.0105)Ala+(0.0107)Pro+(-0.0119)Lys+(-0.0013)Leu;0.660,0.708,0.639,0.649,0.634,0.729,0.559,0.643,(-1.9624)+(0.0303)Ser+(-0.0254)Lys+(-0.0085)Leu+(0.0449)Phe;0.660,0.701,0.656,0.702,0.617,0.655,0.616,0.648,(0.8829)+(-0.0229)Arg+(-0.0736)Tyr+(0.0280)Ile+(0.0411)Phe;0.660,0.699,0.759,0.790,0.700,0.832,0.749,0.768,(3.0433)+(-0.0093)Ala+(0.0120)Pro+(-0.0090)Val+(-0.0079)Lys;0.660,0.707,0.683,0.717,0.707,0.791,0.463,0.670,(-0.4184)+(0.0235)Ser+(-0.0336)Arg+(0.0158)Orn+(-0.0155)Leu;0.660,0.698,0.740,0.760,0.739,0.
748,0.684,0.733,(3.4258)+(-0.1157)Asn+(0.0032)Pro+(0.0238)Orn+(-0.0167)Leu;0.660,0.705,0.691,0.713,0.609,0.827,0.708,0.714,(-0.6862)+(0.0211)Ser+(-0.0121)Ala+(0.0106)Pro+(-0.0070)Leu;0.660,0.705,0.765,0.812,0.744,0.760,0.686,0.750,(4.6803)+(-0.0751)Asn+(-0.0083)Arg+(-0.0312)Tyr+(-0.0041)Leu;0.660,0.701,0.671,0.737,0.636,0.652,0.586,0.653,(1.1057)+(-0.0222)Arg+(0.0043)Pro+(-0.0741)Tyr+(0.0556)Phe;0.660,0.702,0.7

70,0.793,0.730,0.806,0.765,0.774,(0.9143)+(0.0024)Thr+(-0.0102)Ala+(-0.0221)Arg+(0.0408)Phe;0.660,0.707,0.669,0.660,0.680,0.740,0.618,0.675,(-1.3706)+(0.0353)Ser+(-0.0073)Gly+(-0.0346)Arg+(0.0065)Orn;0.660,0.696,0.688,0.673,0.690,0.735,0.686,0.696,(1.5130)+(0.0008)Gly+(-0.0172)Arg+(-0.0218)Lys+(0.0372)Ile;0.660,0.704,0.746,0.746,0.735,0.718,0.786,0.746,(0.5745)+(-0.1518)Asn+(0.0042)Gln+(0.0145)Ile+(0.0169)Phe;0.660,0.700,0.741,0.784,0.733,0.766,0.623,0.727,(3.9502)+(-0.0003)Gly+(-0.0631)Cit+(-0.0351)Tyr+(-0.0070)Val;0.659,0.705,0.675,0.686,0.591,0.811,0.725,0.703,(-1.2268)+(0.0209)Ser+(-0.0130)Ala+(0.0093)Pro+(0.0044)Orn;0.659,0.700,0.727,0.738,0.652,0.795,0.802,0.747,(0.3641)+(-0.0007)Gln+(-0.0134)Ala+(0.0087)Pro+(0.0266)Phe;0.659,0.697,0.763,0.799,0.711,0.831,0.726,0.767,(3.3024)+(-0.0090)Ala+(-0.0171)Arg+(0.0125)Pro+(-0.0107)Val;0.659,0.699,0.748,0.769,0.750,0.760,0.679,0.739,(3.4675)+(-0.1194)Asn+(0.0032)Thr+(0.0237)Orn+(-0.0152)Leu;0.659,0.700,0.685,0.666,0.696,0.742,0.672,0.694,(1.4899)+(-0.0190)Arg+(0.0174)Orn+(-0.0236)Lys+(0.0324)Ile;0.659,0.699,0.733,0.746,0.658,0.795,0.811,0.753,(0.2818)+(-0.0010)Gly+(-0.0134)Ala+(0.0085)Pro+(0.0250)Phe;0.659,0.705,0.667,0.688,0.649,0.785,0.560,0.671,(0.2204)+(0.0259)Ser+(0.0056)Pro+(-0.0108)Val+(-0.0176)Lys;0.659,0.697,0.647,0.645,0.690,0.739,0.493,0.642,(-0.2613)+(0.0272)Ser+(-0.0008)Gln+(-0.0712)Cit+(-0.0200)Arg;0.659,0.698,0.756,0.780,0.706,0.818,0.752,0.764,(2.2423)+(0.0004)Thr+(-0.0113)Ala+(-0.0193)Arg+(0.0104)Pro;0.659,0.704,0.761,0.806,0.736,0.759,0.695,0.749,(4.5561)+(-0.0789)Asn+(-0.0317)Tyr+(-0.0030)Lys+(-0.0028)Leu;0.658,0.706,0.760,0.804,0.740,0.755,0.690,0.747,(4.5850)+(-0.0729)Asn+(-0.0073)Arg+(-0.0322)Tyr+(-0.0026)Lys;0.658,0.695,0.699,0.686,0.694,0.745,0.707,0.708,(1.7217)+(-0.0158)Arg+(-0.0034)Pro+(-0.0217)Lys+(0.0414)Ile;0.658,0.704,0.735,0.733,0.741,0.714,0.743,0.733,(2.0734)+(-0.1080)Asn+(-0.0158)Arg+(0.0182)Ile+(0.0202)Phe;0.658,0.703

,0.735,0.769,0.741,0.771,0.604,0.722,(4.0079)+(0.0007)Gly+(-0.0685)Cit+(-0.0337)Tyr+(-0.0088)Lys;0.658,0.691,0.670,0.712,0.633,0.696,0.616,0.664,(1.1166)+(0.0021)Gln+(-0.0248)Arg+(-0.0623)Tyr+(0.0353)Ile;0.658,0.708,0.651,0.647,0.649,0.773,0.580,0.662,(-0.8921)+(0.0322)Ser+(-0.0146)Thr+(0.0221)Orn+(-0.0209)Lys;0.658,0.697,0.743,0.772,0.671,0.789,0.782,0.754,(0.3108)+(-0.0122)Ala+(0.0097)Pro+(-0.0147)Leu+(0.0404)Phe;0.658,0.710,0.649,0.689,0.613,0.722,0.566,0.648,(-0.7910)+(0.0276)Ser+(-0.0156)Thr+(-0.0502)Tyr+(0.0181)Orn;0.658,0.695,0.693,0.684,0.740,0.765,0.563,0.688,(1.3552)+(-0.0003)Gly+(-0.1087)Cit+(0.0422)Orn+(-0.0174)Leu;0.658,0.701,0.717,0.753,0.711,0.755,0.609,0.707,(0.9993)+(-0.0290)Arg+(-0.0210)Val+(0.0292)Orn+(0.0451)Phe;0.658,0.701,0.713,0.721,0.714,0.725,0.683,0.711,(2.1641)+(-0.1068)Asn+(0.0030)Gly+(-0.0163)Arg+(0.0260)Ile;0.658,0.695,0.690,0.675,0.693,0.734,0.693,0.699,(1.6168)+(0.0014)Thr+(-0.0175)Arg+(-0.0221)Lys+(0.0365)Ile;0.658,0.692,0.649,0.658,0.651,0.713,0.575,0.649,(-1.4355)+(0.0233)Ser+(-0.0802)Cit+(-0.0157)Val+(0.0496)Phe;0.658,0.701,0.761,0.786,0.674,0.846,0.813,0.780,(2.1122)+(0.0004)Gln+(-0.0079)Ala+(-0.0291)Val+(0.0406)Leu;0.658,0.690,0.657,0.662,0.651,0.750,0.591,0.663,(0.2218)+(0.0220)Ser+(-0.0717)Cit+(-0.0261)Val+(0.0290)Leu;0.658,0.701,0.722,0.763,0.727,0.741,0.587,0.705,(3.4825)+(0.0003)Gly+(-0.0655)Cit+(-0.0065)Arg+(-0.0422)Tyr;0.658,0.703,0.746,0.765,0.735,0.709,0.745,0.738,(0.5754)+(-0.1552)Asn+(0.0016)Gly+(0.0042)Gln+(0.0287)Phe;0.658,0.700,0.737,0.737,0.745,0.760,0.706,0.737,(3.3237)+(-0.0960)Asn+(0.0014)Pro+(0.0247)Orn+(-0.0131)Lys;0.658,0.702,0.765,0.794,0.737,0.831,0.697,0.765,(2.3463)+(-0.0082)Ala+(-0.0228)Arg+(0.0275)Orn+(-0.0077)Leu;0.658,0.698,0.780,0.841,0.725,0.829,0.700,0.774,(2.1723)+(0.0034)Gln+(-0.0064)Ala+(-0.0192)Arg+(-0.0325)Tyr;0.657,0.702,0.748,0.786,0.746,0.789,0.624,0.736,(4.3026)+(-0.0627)Cit+(-0.0302)Tyr+(-0.0052)Val+(-0.0059)Lys;0.657,0.

695,0.642,0.640,0.684,0.735,0.495,0.639,(-0.6440)+(0.0263)Ser+(-0.0727)Cit+(-0.0216)Arg+(0.0015)Pro;0.657,0.701,0.787,0.818,0.773,0.782,0.738,0.778,(2.2614)+(-0.1093)Asn+(0.0061)Gln+(-0.0142)Arg+(-0.0081)Lys;0.657,0.701,0.746,0.792,0.741,0.777,0.614,0.731,(4.1247)+(-0.0577)Cit+(-0.0063)Arg+(-0.0327)Tyr+(-0.0070)Val;0.657,0.700,0.780,0.815,0.740,0.805,0.753,0.778,(1.1824)+(-0.0088)Ala+(-0.0207)Arg+(-0.0118)Leu+(0.0538)Phe;0.657,0.701,0.731,0.774,0.736,0.750,0.594,0.713,(3.7009)+(-0.0638)Cit+(-0.0064)Arg+(-0.0398)Tyr+(-0.0032)Leu;0.657,0.694,0.743,0.785,0.681,0.794,0.721,0.745,(2.6243)+(-0.0028)Gly+(-0.0074)Ala+(-0.0433)Tyr+(0.0252)Orn;0.657,0.698,0.738,0.739,0.743,0.728,0.729,0.735,(2.5276)+(-0.1153)Asn+(0.0093)Thr+(-0.0146)Lys+(0.0405)Phe;0.657,0.690,0.658,0.694,0.629,0.680,0.612,0.654,(1.8337)+(-0.0216)Arg+(0.0012)Pro+(-0.0617)Tyr+(0.0351)Ile;0.657,0.699,0.717,0.774,0.651,0.759,0.676,0.715,(2.4785)+(0.0005)Gln+(-0.0424)Tyr+(-0.0273)Val+(0.0341)Leu;0.657,0.698,0.789,0.828,0.767,0.797,0.722,0.779,(5.1167)+(-0.0928)Asn+(-0.0090)Arg+(-0.0125)Val+(0.0030)Lys;0.657,0.698,0.716,0.724,0.719,0.703,0.698,0.711,(1.5089)+(-0.1372)Asn+(0.0022)Gly+(0.0119)Orn+(0.0271)Phe;0.657,0.699,0.766,0.789,0.682,0.842,0.826,0.785,(2.4935)+(-0.0012)Gly+(-0.0077)Ala+(-0.0291)Val+(0.0407)Leu;0.657,0.692,0.667,0.701,0.634,0.686,0.633,0.664,(1.9759)+(-0.0007)Gly+(-0.0208)Arg+(-0.0611)Tyr+(0.0362)Ile;0.657,0.699,0.767,0.806,0.697,0.802,0.786,0.773,(0.6961)+(-0.0010)Thr+(-0.0084)Ala+(-0.0135)Val+(0.0554)Phe;0.657,0.697,0.739,0.754,0.665,0.788,0.820,0.757,(0.4866)+(-0.0076)Thr+(-0.0129)Ala+(0.0093)Pro+(0.0280)Phe;0.657,0.701,0.755,0.779,0.767,0.774,0.652,0.743,(3.8839)+(-0.0961)Asn+(-0.0160)Arg+(0.0295)Orn+(-0.0148)Leu;0.656,0.700,0.738,0.742,0.746,0.763,0.691,0.736,(3.2840)+(-0.0969)Asn+(0.0007)Gly+(0.0252)Orn+(-0.0127)Lys;0.656,0.699,0.669,0.624,0.713,0.727,0.652,0.679,(0.2633)+(-0.0128)Thr+(-0.1075)Cit+(0.0336)Orn+(0.0165)Ile;0.

656,0.706,0.703,0.751,0.716,0.737,0.529,0.683,(3.3940)+(0.0081)Thr+(-0.0651)Cit+(-0.0111)Arg+(-0.0484)Tyr;0.656,0.702,0.625,0.580,0.673,0.710,0.580,0.636,(-1.6225)+(0.0261)Ser+(-0.0049)Gly+(-0.1070)Cit+(0.0246)Orn;0.656,0.699,0.656,0.618,0.720,0.728,0.573,0.660,(0.3245)+(-0.0963)Cit+(-0.0182)Arg+(0.0291)Orn+(0.0161)Ile;0.656,0.692,0.647,0.686,0.621,0.678,0.577,0.640,(1.7309)+(0.0062)Thr+(-0.0251)Arg+(-0.0648)Tyr+(0.0361)Ile;0.656,0.701,0.751,0.812,0.711,0.812,0.632,0.742,(3.2276)+(0.0098)Thr+(-0.0064)Ala+(-0.0196)Arg+(-0.0354)Tyr;0.656,0.697,0.730,0.781,0.663,0.804,0.683,0.733,(1.9061)+(0.0005)Gln+(-0.0077)Ala+(-0.0415)Tyr+(0.0226)Orn;0.656,0.693,0.666,0.717,0.653,0.707,0.525,0.651,(2.2821)+(-0.0242)Arg+(0.0044)Pro+(-0.0589)Tyr+(0.0233)Orn;0.655,0.704,0.697,0.717,0.631,0.849,0.675,0.718,(0.0034)+(0.0253)Ser+(-0.0024)Gln+(-0.0091)Ala+(-0.0014)Leu;0.655,0.700,0.707,0.703,0.706,0.698,0.722,0.707,(1.2992)+(-0.1351)Asn+(0.0028)Gly+(0.0175)Ile+(0.0203)Phe;0.655,0.700,0.670,0.699,0.620,0.733,0.655,0.677,(-2.1817)+(0.0291)Ser+(-0.0181)Thr+(-0.0165)Val+(0.0478)Phe;0.655,0.701,0.736,0.767,0.743,0.768,0.618,0.724,(4.0803)+(-0.0675)Cit+(-0.0349)Tyr+(-0.0093)Lys+(0.0019)Leu;0.655,0.700,0.734,0.785,0.674,0.806,0.672,0.735,(2.2379)+(-0.0072)Ala+(-0.0397)Tyr+(0.0250)Orn+(-0.0042)Leu;0.655,0.705,0.642,0.650,0.642,0.724,0.561,0.644,(-2.6584)+(0.0350)Ser+(-0.0170)Thr+(-0.0280)Arg+(0.0264)Phe;0.655,0.699,0.776,0.805,0.709,0.847,0.787,0.787,(3.0812)+(-0.0068)Ala+(-0.0147)Arg+(-0.0282)Val+(0.0405)Leu;0.655,0.694,0.692,0.675,0.693,0.734,0.701,0.701,(1.2961)+(-0.0173)Arg+(-0.0227)Lys+(0.0341)Ile+(0.0123)Phe;0.655,0.696,0.736,0.784,0.670,0.760,0.728,0.736,(3.2486)+(-0.0026)Gly+(-0.0420)Tyr+(-0.0273)Val+(0.0345)Leu;0.655,0.694,0.690,0.682,0.739,0.762,0.556,0.685,(1.3096)+(-0.1091)Cit+(0.0000)Pro+(0.0421)Orn+(-0.0173)Leu;0.655,0.695,0.690,0.682,0.740,0.764,0.556,0.685,(1.4946)+(-0.0004)Gln+(-0.1087)Cit+(0.0429)Orn+(-0.0172)Le

u;0.655,0.697,0.733,0.738,0.718,0.725,0.754,0.734,(0.8739)+(-0.1475)Asn+(0.0015)Gly+(0.0039)Gln+(0.0201)Ile;0.655,0.696,0.711,0.746,0.690,0.743,0.639,0.704,(3.1999)+(-0.0031)Gly+(-0.0493)Tyr+(0.0315)Orn+(-0.0155)Lys;0.655,0.695,0.570,0.539,0.608,0.691,0.488,0.581,(-1.9517)+(0.0325)Ser+(-0.0032)Gln+(-0.0349)Arg+(0.0269)Ile;0.655,0.696,0.767,0.797,0.709,0.836,0.757,0.775,(2.2536)+(-0.0024)Gly+(-0.0075)Ala+(-0.0124)Val+(0.0282)Orn;0.655,0.694,0.721,0.737,0.671,0.776,0.745,0.733,(0.0205)+(0.0371)Ser+(-0.0082)Gly+(-0.0141)Thr+(-0.0121)Val;0.655,0.694,0.672,0.686,0.626,0.710,0.706,0.682,(-1.4876)+(0.0299)Ser+(-0.0084)Gly+(-0.0192)Val+(0.0378)Phe;0.655,0.701,0.627,0.680,0.605,0.717,0.472,0.618,(0.4363)+(0.0248)Ser+(-0.0022)Gln+(-0.0502)Tyr+(-0.0040)Leu;0.655,0.699,0.783,0.817,0.768,0.775,0.731,0.773,(2.3561)+(-0.1405)Asn+(0.0049)Gln+(0.0051)Thr+(-0.0123)Leu;0.654,0.704,0.734,0.755,0.743,0.717,0.671,0.721,(1.8981)+(-0.1161)Asn+(0.0030)Gly+(-0.0156)Arg+(0.0369)Phe;0.654,0.698,0.685,0.665,0.750,0.747,0.560,0.680,(1.0619)+(-0.0981)Cit+(-0.0164)Arg+(-0.0024)Pro+(0.0371)Orn;0.654,0.701,0.720,0.732,0.642,0.794,0.798,0.742,(-0.0750)+(-0.0136)Ala+(0.0080)Pro+(0.0077)Orn+(0.0227)Phe;0.654,0.703,0.666,0.720,0.625,0.743,0.552,0.660,(-0.2418)+(0.0274)Ser+(-0.0114)Thr+(-0.0433)Tyr+(-0.0038)Leu;0.654,0.701,0.739,0.772,0.745,0.771,0.617,0.726,(4.1201)+(-0.0669)Cit+(-0.0002)Arg+(-0.0342)Tyr+(-0.0086)Lys;0.654,0.694,0.676,0.713,0.660,0.723,0.576,0.668,(2.5802)+(0.0042)Pro+(-0.0517)Tyr+(0.0269)Orn+(-0.0165)Lys;0.654,0.695,0.701,0.699,0.698,0.708,0.706,0.703,(1.7563)+(-0.1294)Asn+(0.0022)Gly+(0.0090)Orn+(0.0194)Ile;0.654,0.697,0.693,0.764,0.657,0.678,0.594,0.673,(0.3461)+(0.0023)Gln+(-0.0248)Arg+(-0.0718)Tyr+(0.0568)Phe;0.654,0.692,0.751,0.787,0.676,0.829,0.753,0.761,(2.2114)+(0.0002)Gln+(-0.0100)Ala+(0.0119)Pro+(-0.0115)Val;0.654,0.697,0.764,0.785,0.766,0.763,0.702,0.754,(1.7024)+(-0.1260)Asn+(0.0051)Gln+(-0.0203)Arg+(0.0161

)Orn;0.654,0.691,0.758,0.790,0.688,0.823,0.774,0.769,(2.6091)+(-0.0015)Gly+(-0.0099)Ala+(0.0120)Pro+(-0.0114)Val;0.654,0.696,0.735,0.742,0.669,0.804,0.802,0.754,(1.2039)+(-0.0098)Thr+(-0.0122)Ala+(0.0096)Pro+(0.0167)Orn;0.654,0.700,0.707,0.763,0.643,0.754,0.659,0.705,(2.5781)+(0.0030)Thr+(-0.0440)Tyr+(-0.0279)Val+(0.0349)Leu;0.654,0.698,0.799,0.840,0.751,0.853,0.753,0.799,(2.0020)+(0.0032)Gln+(-0.0073)Ala+(-0.0162)Arg+(-0.0094)Lys;0.654,0.701,0.749,0.761,0.742,0.713,0.761,0.744,(0.7308)+(-0.1531)Asn+(0.0040)Gln+(0.0082)Orn+(0.0236)Phe;0.653,0.702,0.721,0.711,0.724,0.705,0.753,0.723,(1.6550)+(-0.1300)Asn+(0.0090)Orn+(0.0135)Ile+(0.0160)Phe;0.653,0.686,0.675,0.671,0.690,0.737,0.608,0.676,(-0.0295)+(0.0295)Ser+(-0.0059)Gly+(-0.0785)Cit+(-0.0114)Leu;0.653,0.699,0.749,0.777,0.689,0.800,0.765,0.758,(-0.0377)+(-0.0103)Ala+(0.0160)Orn+(-0.0144)Leu+(0.0419)Phe;0.653,0.699,0.741,0.741,0.732,0.730,0.771,0.743,(0.9859)+(-0.1463)Asn+(0.0040)Gln+(0.0057)Orn+(0.0170)Ile;0.653,0.691,0.717,0.778,0.662,0.730,0.660,0.707,(3.4200)+(-0.0030)Gly+(0.0086)Pro+(-0.0486)Tyr+(-0.0125)Val;0.653,0.694,0.791,0.827,0.768,0.781,0.750,0.782,(2.3133)+(-0.1314)Asn+(0.0000)Gly+(0.0051)Gln+(-0.0117)Leu;0.653,0.699,0.751,0.756,0.733,0.735,0.786,0.753,(0.9875)+(-0.1441)Asn+(0.0044)Gln+(-0.0026)Pro+(0.0224)Ile;0.653,0.699,0.669,0.705,0.685,0.777,0.465,0.658,(-0.4495)+(0.0256)Ser+(-0.0326)Arg+(0.0041)Pro+(-0.0153)Leu;0.653,0.696,0.783,0.810,0.763,0.780,0.759,0.778,(2.2153)+(-0.1171)Asn+(0.0000)Gly+(0.0053)Gln+(-0.0105)Lys;0.652,0.702,0.632,0.693,0.602,0.716,0.471,0.621,(-0.1587)+(0.0190)Ser+(-0.0557)Tyr+(0.0150)Orn+(-0.0083)Leu;0.652,0.692,0.717,0.778,0.685,0.753,0.596,0.703,(3.7001)+(-0.0177)Arg+(0.0092)Pro+(-0.0410)Tyr+(-0.0119)Val;0.652,0.688,0.613,0.661,0.556,0.609,0.605,0.608,(-0.2151)+(-0.0829)Tyr+(0.0053)Orn+(0.0240)Ile+(0.0346)Phe;0.652,0.699,0.588,0.643,0.550,0.673,0.461,0.582,(-0.7994)+(0.0

206)Ser+(0.0043)Pro+(-0.0663)Tyr+(0.0084)Orn;0.652,0.701,0.757,0.781,0.672,0.845,0.806,0.776,(2.1986)+(0.0013)Thr+(-0.0080)Ala+(-0.0294)Val+(0.0411)Leu;0.652,0.696,0.792,0.825,0.771,0.788,0.753,0.784,(2.4685)+(-0.1184)Asn+(0.0055)Gln+(-0.0073)Lys+(-0.0075)Leu;0.652,0.704,0.696,0.726,0.667,0.811,0.591,0.699,(0.2260)+(0.0291)Ser+(-0.0083)Thr+(-0.0077)Val+(-0.0138)Lys;0.652,0.704,0.786,0.844,0.740,0.842,0.685,0.778,(3.8354)+(-0.0048)Ala+(-0.0136)Arg+(-0.0231)Tyr+(-0.0064)Val;0.652,0.698,0.743,0.745,0.728,0.727,0.779,0.745,(0.9994)+(-0.1471)Asn+(0.0042)Gln+(0.0010)Thr+(0.0187)Ile;0.652,0.705,0.697,0.672,0.752,0.755,0.607,0.697,(1.2191)+(-0.0082)Thr+(-0.0981)Cit+(-0.0126)Arg+(0.0393)Orn;0.652,0.696,0.721,0.732,0.650,0.810,0.775,0.742,(1.0700)+(-0.0008)Gln+(-0.0127)Ala+(0.0089)Pro+(0.0122)Orn;0.652,0.695,0.722,0.735,0.680,0.767,0.744,0.731,(1.4783)+(-0.0295)Val+(-0.0161)Lys+(0.0328)Leu+(0.0383)Phe;0.652,0.696,0.754,0.788,0.696,0.842,0.722,0.762,(1.9887)+(-0.0004)Gln+(-0.0076)Ala+(-0.0121)Val+(0.0275)Orn;0.652,0.697,0.777,0.843,0.704,0.848,0.706,0.775,(2.3941)+(0.0019)Gln+(-0.0057)Ala+(-0.0301)Tyr+(-0.0070)Val;0.652,0.697,0.659,0.731,0.631,0.648,0.536,0.637,(0.9401)+(0.0091)Thr+(-0.0266)Arg+(-0.0766)Tyr+(0.0597)Phe;0.651,0.696,0.692,0.755,0.659,0.660,0.615,0.672,(1.3433)+(-0.0011)Gly+(-0.0204)Arg+(-0.0703)Tyr+(0.0584)Phe;0.651,0.692,0.761,0.793,0.712,0.828,0.731,0.766,(2.6431)+(-0.0105)Ala+(-0.0186)Arg+(0.0113)Pro+(-0.0070)Leu;0.651,0.692,0.721,0.734,0.721,0.693,0.705,0.713,(1.6078)+(-0.1336)Asn+(0.0025)Gly+(0.0004)Pro+(0.0319)Phe;0.651,0.686,0.650,0.690,0.587,0.652,0.675,0.651,(1.1112)+(-0.0026)Gly+(0.0005)Gln+(-0.0712)Tyr+(0.0326)Ile;0.651,0.692,0.775,0.810,0.751,0.765,0.737,0.766,(2.3151)+(-0.1327)Asn+(0.0049)Gln+(0.0035)Pro+(-0.0139)Leu;0.651,0.687,0.637,0.684,0.575,0.612,0.659,0.632,(0.3831)+(-0.0024)Gly+(-0.0825)Tyr+(0.0252)Ile+(0.0359)Phe;0.651,0.697,0.665,0.644,0.736,0.737,0.523,0.660,(0.7186)+(0.0

012)Gly+(-0.0983)Cit+(-0.0174)Arg+(0.0347)Orn;0.651,0.684,0.649,0.686,0.590,0.648,0.676,0.650,(1.2656)+(-0.0022)Gly+(-0.0010)Thr+(-0.0695)Tyr+(0.0333)Ile;0.651,0.699,0.777,0.798,0.761,0.773,0.760,0.773,(2.1830)+(-0.1177)Asn+(0.0052)Gln+(0.0019)Pro+(-0.0110)Lys;0.651,0.686,0.645,0.683,0.585,0.647,0.668,0.646,(1.2534)+(-0.0024)Gly+(0.0006)Pro+(-0.0710)Tyr+(0.0324)Ile;0.651,0.687,0.627,0.674,0.568,0.618,0.633,0.623,(0.0024)+(-0.0028)Thr+(-0.0797)Tyr+(0.0263)Ile+(0.0354)Phe;0.651,0.705,0.706,0.735,0.632,0.841,0.691,0.725,(-0.7808)+(0.0200)Ser+(-0.0098)Ala+(0.0123)Orn+(-0.0053)Leu;0.651,0.689,0.697,0.767,0.643,0.725,0.604,0.685,(2.4696)+(0.0007)Gln+(0.0082)Pro+(-0.0486)Tyr+(-0.0127)Val;0.651,0.699,0.750,0.765,0.739,0.706,0.765,0.744,(0.7277)+(-0.1572)Asn+(0.0043)Gln+(0.0027)Thr+(0.0264)Phe;0.651,0.695,0.732,0.779,0.669,0.800,0.690,0.735,(2.1387)+(-0.0017)Thr+(-0.0075)Ala+(-0.0401)Tyr+(0.0243)Orn;0.651,0.693,0.697,0.678,0.676,0.750,0.752,0.714,(0.7755)+(0.0012)Gln+(-0.0047)Pro+(-0.0273)Lys+(0.0427)Ile;0.651,0.698,0.610,0.673,0.572,0.696,0.463,0.601,(-0.1183)+(0.0208)Ser+(0.0064)Pro+(-0.0586)Tyr+(-0.0089)Leu;0.651,0.695,0.695,0.670,0.678,0.743,0.760,0.713,(0.7416)+(0.0012)Gln+(-0.0045)Thr+(-0.0259)Lys+(0.0367)Ile;0.651,0.700,0.778,0.828,0.733,0.833,0.700,0.774,(3.6378)+(-0.0056)Ala+(-0.0114)Arg+(-0.0256)Tyr+(-0.0047)Lys;0.650,0.696,0.613,0.581,0.673,0.722,0.496,0.618,(-1.5524)+(0.0198)Ser+(-0.1136)Cit+(-0.0028)Pro+(0.0283)Orn;0.650,0.693,0.750,0.767,0.741,0.742,0.731,0.745,(1.4408)+(-0.1446)Asn+(0.0007)Gly+(0.0040)Gln+(0.0121)Orn;0.650,0.687,0.616,0.665,0.558,0.609,0.615,0.612,(-0.1353)+(0.0002)Pro+(-0.0824)Tyr+(0.0254)Ile+(0.0356)Phe;0.650,0.700,0.756,0.775,0.742,0.710,0.772,0.750,(0.7271)+(-0.1520)Asn+(0.0045)Gln+(-0.0006)Pro+(0.0275)Phe;0.650,0.693,0.732,0.735,0.742,0.759,0.685,0.730,(3.3634)+(-0.1029)Asn+(0.0054)Thr+(0.0233)Orn+(-0.0137)Lys;0.650,0.701,0.674,0.700,0.662,0.801,0.542,0.676,(0.7193)+(0.02

76)Ser+(-0.0014)Gln+(-0.0084)Val+(-0.0157)Lys;0.650,0.697,0.749,0.761,0.686,0.804,0.807,0.765,(0.1884)+(-0.0083)Thr+(-0.0109)Ala+(0.0165)Orn+(0.0294)Phe;0.650,0.695,0.680,0.652,0.672,0.744,0.724,0.698,(1.0291)+(-0.0049)Pro+(0.0149)Orn+(-0.0282)Lys+(0.0397)Ile;0.650,0.690,0.716,0.728,0.718,0.690,0.698,0.708,(1.5989)+(-0.1404)Asn+(0.0023)Gly+(0.0038)Thr+(0.0314)Phe;0.650,0.695,0.795,0.839,0.779,0.790,0.718,0.781,(2.4585)+(-0.1162)Asn+(0.0062)Gln+(-0.0168)Arg+(-0.0107)Leu;0.650,0.694,0.679,0.645,0.675,0.735,0.734,0.697,(1.0227)+(-0.0055)Thr+(0.0157)Orn+(-0.0265)Lys+(0.0333)Ile;0.650,0.698,0.729,0.769,0.677,0.779,0.693,0.730,(3.3687)+(-0.0330)Tyr+(-0.0267)Val+(-0.0100)Lys+(0.0391)Leu;0.650,0.686,0.624,0.664,0.568,0.642,0.624,0.625,(0.8516)+(-0.0003)Gln+(0.0003)Pro+(-0.0700)Tyr+(0.0336)Ile;0.650,0.693,0.715,0.706,0.714,0.709,0.743,0.718,(2.0326)+(-0.1266)Asn+(0.0013)Thr+(0.0096)Orn+(0.0174)Ile;0.650,0.695,0.747,0.761,0.679,0.807,0.810,0.764,(0.0943)+(-0.0013)Gly+(-0.0116)Ala+(0.0122)Orn+(0.0270)Phe;0.650,0.686,0.637,0.639,0.662,0.698,0.534,0.633,(-1.8403)+(0.0235)Ser+(-0.0913)Cit+(-0.0190)Leu+(0.0435)Phe;0.649,0.696,0.728,0.729,0.732,0.703,0.732,0.724,(1.8282)+(-0.1307)Asn+(-0.0006)Pro+(0.0132)Orn+(0.0248)Phe;0.649,0.685,0.615,0.662,0.559,0.608,0.615,0.611,(0.0956)+(-0.0006)Gln+(-0.0815)Tyr+(0.0261)Ile+(0.0360)Phe;0.649,0.698,0.735,0.735,0.733,0.728,0.743,0.735,(2.5710)+(-0.0997)Asn+(-0.0150)Arg+(-0.0013)Pro+(0.0254)Ile;0.649,0.697,0.691,0.664,0.738,0.749,0.623,0.693,(0.9525)+(-0.0111)Thr+(-0.1085)Cit+(-0.0020)Pro+(0.0407)Orn;0.649,0.700,0.738,0.750,0.673,0.808,0.792,0.756,(0.1395)+(-0.0008)Gln+(-0.0115)Ala+(0.0127)Orn+(0.0289)Phe;0.649,0.695,0.730,0.741,0.658,0.809,0.794,0.750,(1.0033)+(-0.0016)Gly+(-0.0128)Ala+(0.0087)Pro+(0.0117)Orn;0.649,0.704,0.694,0.735,0.687,0.794,0.530,0.686,(-0.4610)+(0.0304)Ser+(-0.0114)Thr+(-0.0247)Arg+(-0.0096)Leu;0.649,0.694,0.735,0.787,0.690,0.777,0.663,0.729,(3.4523)+(-0.0

156)Arg+(-0.0341)Tyr+(-0.0267)Val+(0.0347)Leu;0.649,0.707,0.658,0.670,0.662,0.762,0.543,0.659,(-1.6703)+(0.0323)Ser+(-0.0176)Thr+(-0.0269)Arg+(0.0151)Orn;0.649,0.699,0.762,0.826,0.699,0.839,0.671,0.759,(3.0189)+(0.0045)Thr+(-0.0056)Ala+(-0.0306)Tyr+(-0.0071)Val;0.649,0.691,0.701,0.701,0.695,0.705,0.712,0.703,(1.8383)+(-0.1293)Asn+(0.0024)Gly+(0.0018)Thr+(0.0223)Ile;0.649,0.688,0.643,0.678,0.588,0.653,0.659,0.644,(1.1608)+(-0.0029)Gly+(-0.0729)Tyr+(0.0104)Orn+(0.0295)Ile;0.648,0.685,0.618,0.657,0.564,0.645,0.606,0.618,(0.5682)+(0.0000)Pro+(-0.0718)Tyr+(0.0074)Orn+(0.0311)Ile;0.648,0.699,0.763,0.793,0.707,0.844,0.743,0.772,(2.0532)+(-0.0051)Thr+(-0.0073)Ala+(-0.0117)Val+(0.0298)Orn;0.648,0.688,0.690,0.667,0.675,0.745,0.742,0.707,(1.2277)+(-0.0000)Gly+(-0.0044)Pro+(-0.0262)Lys+(0.0426)Ile;0.648,0.686,0.615,0.651,0.565,0.643,0.604,0.616,(0.8566)+(-0.0007)Gln+(-0.0710)Tyr+(0.0087)Orn+(0.0314)Ile;0.648,0.694,0.573,0.521,0.628,0.690,0.517,0.589,(-2.5998)+(0.0210)Ser+(-0.1132)Cit+(0.0190)Orn+(0.0176)Ile;0.648,0.688,0.748,0.765,0.677,0.814,0.806,0.766,(1.6027)+(-0.0006)Gly+(-0.0059)Thr+(-0.0119)Ala+(0.0104)Pro;0.648,0.684,0.637,0.676,0.580,0.650,0.645,0.638,(0.8444)+(0.0001)Gln+(-0.0032)Thr+(-0.0675)Tyr+(0.0342)Ile;0.648,0.692,0.670,0.685,0.615,0.772,0.674,0.687,(-0.6102)+(0.0269)Ser+(-0.0151)Thr+(-0.0290)Val+(0.0328)Leu;0.648,0.685,0.635,0.673,0.579,0.648,0.643,0.636,(0.8712)+(-0.0032)Thr+(0.0005)Pro+(-0.0678)Tyr+(0.0336)Ile;0.648,0.683,0.661,0.672,0.675,0.755,0.535,0.659,(0.8198)+(0.0236)Ser+(-0.0012)Gln+(-0.0735)Cit+(-0.0103)Val;0.648,0.694,0.722,0.723,0.726,0.695,0.730,0.718,(1.7977)+(-0.1356)Asn+(0.0024)Thr+(0.0117)Orn+(0.0242)Phe;0.648,0.692,0.720,0.723,0.722,0.722,0.707,0.719,(2.5482)+(-0.1113)Asn+(0.0070)Thr+(-0.0179)Arg+(0.0221)Ile;0.648,0.702,0.615,0.603,0.638,0.748,0.505,0.624,(-0.1364)+(0.0303)Ser+(-0.0025)Gln+(0.0188)Orn+(-0.0242)Lys;0.648,0.690,0.728,0.757,0.730,0.803,0.590,0.720,(2.8567)+(-0.0

215)Arg+(-0.0140)Val+(0.0350)Orn+(-0.0090)Lys;0.648,0.693,0.755,0.770,0.746,0.743,0.742,0.750,(1.4840)+(-0.1436)Asn+(0.0041)Gln+(-0.0002)Pro+(0.0122)Orn;0.648,0.691,0.695,0.739,0.677,0.748,0.582,0.686,(2.2111)+(0.0013)Gln+(-0.0477)Tyr+(0.0275)Orn+(-0.0169)Lys;0.648,0.694,0.720,0.713,0.717,0.719,0.748,0.724,(2.0616)+(-0.1225)Asn+(-0.0022)Pro+(0.0108)Orn+(0.0202)Ile;0.648,0.688,0.693,0.672,0.676,0.745,0.748,0.710,(1.2719)+(-0.0019)Thr+(-0.0041)Pro+(-0.0255)Lys+(0.0426)Ile;0.648,0.695,0.719,0.710,0.720,0.693,0.757,0.720,(1.6996)+(-0.1328)Asn+(0.0030)Thr+(0.0155)Ile+(0.0179)Phe;0.648,0.693,0.785,0.841,0.723,0.837,0.729,0.783,(3.5803)+(-0.0020)Gly+(-0.0052)Ala+(-0.0284)Tyr+(-0.0067)Val;0.648,0.695,0.730,0.746,0.745,0.747,0.643,0.720,(2.8419)+(-0.1062)Asn+(0.0017)Gly+(-0.0167)Arg+(0.

0210)Orn;0.647,0.694,0.672,0.646,0.722,0.742,0.587,0.674,(0.6060)+(0.0020)Gly+(-0.0129)Thr+(-0.1104)Cit+(0.0393)Orn;0.647,0.697,0.782,0.839,0.716,0.846,0.722,0.781,(2.3605)+(0.0028)Gln+(-0.0061)Ala+(-0.0294)Tyr+(-0.0099)Lys;0.647,0.695,0.769,0.792,0.756,0.770,0.736,0.763,(2.2840)+(-0.1266)Asn+(0.0050)Gln+(0.0071)Thr+(-0.0119)Lys;0.647,0.690,0.702,0.752,0.683,0.725,0.590,0.688,(3.2429)+(-0.0144)Arg+(0.0062)Pro+(-0.0461)Tyr+(-0.0085)Lys;0.647,0.688,0.747,0.767,0.670,0.815,0.807,0.765,(1.2931)+(0.0006)Gln+(-0.0070)Thr+(-0.0120)Ala+(0.0103)Pro;0.647,0.687,0.651,0.716,0.596,0.600,0.634,0.636,(0.6732)+(-0.0027)Gly+(0.0034)Pro+(-0.0822)Tyr+(0.0497)Phe;0.647,0.683,0.656,0.666,0.663,0.750,0.544,0.656,(0.2896)+(0.0215)Ser+(-0.0764)Cit+(0.0046)Pro+(-0.0126)Val;0.647,0.690,0.755,0.789,0.683,0.828,0.765,0.766,(2.4875)+(-0.0030)Thr+(-0.0098)Ala+(0.0123)Pro+(-0.0110)Val;0.647,0.686,0.612,0.607,0.584,0.744,0.586,0.630,(0.5441)+(0.0258)Ser+(-0.0044)Gln+(-0.0336)Val+(0.0390)Leu;0.647,0.693,0.753,0.768,0.744,0.740,0.740,0.748,(1.4810)+(-0.1457)Asn+(0.0041)Gln+(0.0011)Thr+(0.0116)Orn;0.647,0.690,0.707,0.707

,0.698,0.714,0.721,0.710,(1.8634)+(-0.1243)Asn+(0.0025)Gly+(-0.0018)Pro+(0.0253)Ile;0.647,0.697,0.600,0.599,0.632,0.704,0.461,0.599,(-1.8571)+(0.0313)Ser+(-0.0027)Gln+(-0.0341)Arg+(0.0223)Phe;0.647,0.695,0.638,0.638,0.627,0.753,0.580,0.649,(-0.8759)+(0.0339)Ser+(-0.0133)Thr+(0.0042)Pro+(-0.0192)Lys;0.647,0.690,0.687,0.728,0.673,0.739,0.568,0.677,(2.6220)+(0.0018)Thr+(-0.0478)Tyr+(0.0284)Orn+(-0.0166)Lys;0.647,0.697,0.727,0.719,0.724,0.706,0.771,0.730,(1.7456)+(-0.1251)Asn+(-0.0020)Pro+(0.0189)Ile+(0.0183)Phe;0.647,0.693,0.685,0.658,0.671,0.734,0.750,0.703,(0.7989)+(-0.0006)Gly+(0.0010)Gln+(-0.0272)Lys+(0.0357)Ile;0.647,0.689,0.638,0.595,0.688,0.712,0.592,0.647,(-0.2891)+(-0.1133)Cit+(-0.0064)Pro+(0.0299)Orn+(0.0218)Ile;0.647,0.689,0.685,0.656,0.673,0.736,0.749,0.704,(1.1497)+(0.0002)Gly+(-0.0034)Thr+(-0.0252)Lys+(0.0371)Ile;0.647,0.687,0.557,0.501,0.612,0.670,0.512,0.574,(-1.4839)+(0.0282)Ser+(-0.0035)Gln+(-0.0926)Cit+(0.0265)Ile;0.647,0.686,0.594,0.546,0.626,0.674,0.594,0.610,(-2.2462)+(0.0282)Ser+(-0.0042)Gly+(-0.0942)Cit+(0.0207)Ile;0.647,0.693,0.760,0.834,0.725,0.804,0.606,0.742,(2.5104)+(0.0033)Gln+(-0.0211)Arg+(-0.0358)Tyr+(-0.0097)Val;0.647,0.689,0.795,0.832,0.744,0.836,0.773,0.796,(1.6258)+(-0.0013)Gly+(0.0028)Gln+(-0.0085)Ala+(-0.0210)Arg;0.646,0.690,0.590,0.553,0.648,0.693,0.496,0.597,(-2.2921)+(0.0206)Ser+(-0.1137)Cit+(0.0236)Orn+(0.0094)Phe;0.646,0.699,0.774,0.827,0.724,0.824,0.699,0.769,(3.3345)+(-0.0061)Ala+(-0.0144)Arg+(-0.0291)Tyr+(0.0005)Leu;0.646,0.688,0.743,0.760,0.669,0.815,0.801,0.761,(1.2820)+(-0.0014)Gly+(0.0001)Gln+(-0.0124)Ala+(0.0096)Pro;0.646,0.697,0.781,0.836,0.725,0.849,0.702,0.778,(3.5401)+(-0.0051)Ala+(-0.0239)Tyr+(-0.0053)Val+(-0.0052)Lys;0.646,0.690,0.709,0.766,0.667,0.750,0.614,0.699,(3.3051)+(0.0084)Pro+(-0.0420)Tyr+(-0.0105)Val+(-0.0070)Lys;0.646,0.694,0.779,0.831,0.729,0.821,0.714,0.774,(3.5528)+(-0.0011)Gly+(-0.0060)Ala+(-0.0137)Arg+(-0.0296)Tyr;0.646,0.684,0.69

4,0.743,0.679,0.717,0.579,0.679,(2.8029)+(-0.0025)Gly+(-0.0223)Arg+(-0.0558)Tyr+(0.0272)Orn;0.646,0.689,0.688,0.664,0.672,0.741,0.747,0.706,(0.9191)+(-0.0045)Pro+(-0.0271)Lys+(0.0404)Ile+(0.0105)Phe;0.646,0.685,0.654,0.714,0.603,0.619,0.627,0.640,(0.5773)+(-0.0033)Gly+(-0.0819)Tyr+(0.0147)Orn+(0.0471)Phe;0.646,0.690,0.730,0.769,0.723,0.804,0.585,0.720,(2.0832)+(0.0008)Gln+(-0.0276)Arg+(-0.0169)Val+(0.0308)Orn;0.646,0.683,0.625,0.598,0.658,0.701,0.574,0.633,(-0.4798)+(0.0315)Ser+(-0.0048)Gly+(-0.0020)Gln+(-0.0826)Cit;0.646,0.697,0.756,0.810,0.704,0.831,0.665,0.753,(3.2423)+(0.0079)Thr+(-0.0061)Ala+(-0.0313)Tyr+(-0.0101)Lys;0.646,0.683,0.635,0.671,0.581,0.654,0.635,0.636,(0.7537)+(-0.0050)Thr+(-0.0681)Tyr+(0.0104)Orn+(0.0311)Ile;0.646,0.695,0.745,0.757,0.752,0.709,0.722,0.735,(2.3132)+(-0.1094)Asn+(-0.0147)Arg+(0.0009)Pro+(0.0322)Phe;0.646,0.694,0.694,0.705,0.654,0.771,0.696,0.706,(-0.1971)+(0.0279)Ser+(-0.0092)Gly+(-0.0172)Val+(0.0165)Orn;0.646,0.690,0.731,0.754,0.664,0.810,0.753,0.745,(1.1830)+(-0.0117)Ala+(0.0098)Pro+(0.0150)Orn+(-0.0104)Leu;0.646,0.686,0.688,0.747,0.672,0.732,0.531,0.671,(1.7825)+(0.0017)Gln+(-0.0259)Arg+(-0.0550)Tyr+(0.0234)Orn;0.645,0.684,0.674,0.668,0.720,0.725,0.558,0.668,(0.1946)+(-0.1097)Cit+(0.0397)Orn+(-0.0238)Leu+(0.0343)Phe;0.645,0.691,0.695,0.763,0.644,0.722,0.602,0.683,(2.7733)+(0.0002)Thr+(0.0084)Pro+(-0.0477)Tyr+(-0.0126)Val;0.645,0.686,0.618,0.684,0.568,0.599,0.561,0.603,(-0.0914)+(0.0025)Pro+(-0.0830)Tyr+(0.0105)Orn+(0.0465)Phe;0.645,0.693,0.694,0.737,0.681,0.746,0.571,0.684,(2.7036)+(-0.0458)Tyr+(0.0298)Orn+(-0.0150)Lys+(-0.0034)Leu;0.645,0.694,0.600,0.590,0.618,0.709,0.510,0.607,(-2.6747)+(0.0281)Ser+(-0.0378)Arg+(-0.0034)Pro+(0.0284)Ile;0.645,0.686,0.718,0.730,0.719,0.721,0.681,0.713,(2.4207)+(-0.1251)Asn+(0.0015)Gly+(0.0006)Pro+(0.0161)Orn;0.645,0.695,0.675,0.654,0.741,0.736,0.552,0.671,(0.7066)+(0.0005)Gln+(-0.0969)Cit+(-0.0177)Arg+(0.0341)Orn;0.645,0.684,0.64

2,0.707,0.593,0.620,0.591,0.628,(0.0875)+(-0.0039)Thr+(-0.0777)Tyr+(0.0142)Orn+(0.0476)Phe;0.645,0.700,0.624,0.619,0.635,0.749,0.524,0.632,(-0.9018)+(0.0276)Ser+(0.0014)Pro+(0.0154)Orn+(-0.0261)Lys;0.645,0.694,0.673,0.709,0.690,0.781,0.464,0.661,(-0.0854)+(0.0268)Ser+(-0.0010)Gln+(-0.0298)Arg+(-0.0118)Leu;0.645,0.687,0.712,0.747,0.706,0.787,0.581,0.705,(2.2825)+(-0.0273)Arg+(0.0045)Pro+(-0.0183)Val+(0.0297)Orn;0.645,0.691,0.739,0.800,0.712,0.770,0.610,0.723,(2.1735)+(0.0036)Gln+(-0.0177)Arg+(-0.0409)Tyr+(-0.0097)Lys;0.644,0.690,0.669,0.635,0.667,0.727,0.720,0.687,(0.9946)+(-0.0007)Gly+(0.0138)Orn+(-0.0282)Lys+(0.0325)Ile;0.644,0.688,0.744,0.771,0.673,0.821,0.766,0.758,(1.5160)+(0.0001)Gln+(-0.0115)Ala+(0.0106)Pro+(-0.0080)Leu;0.644,0.689,0.772,0.804,0.762,0.754,0.724,0.761,(1.7980)+(-0.1240)Asn+(0.0057)Gln+(-0.0184)Arg+(0.0013)Pro;0.644,0.690,0.659,0.725,0.625,0.701,0.525,0.644,(1.7224)+(0.0056)Pro+(-0.0596)Tyr+(0.0206)Orn+(-0.0136)Leu;0.644,0.699,0.651,0.668,0.653,0.755,0.529,0.651,(-1.0339)+(0.0336)Ser+(-0.0011)Gln+(-0.0137)Thr+(-0.0243)Arg;0.644,0.689,0.764,0.798,0.695,0.806,0.785,0.771,(0.2205)+(0.0000)Gln+(-0.0099)Ala+(-0.0119)Leu+(0.0454)Phe;0.644,0.694,0.643,0.656,0.643,0.741,0.538,0.645,(-1.6255)+(0.0335)Ser+(-0.0163)Thr+(-0.0260)Arg+(0.0032)Pro;0.644,0.684,0.725,0.727,0.718,0.788,0.686,0.730,(3.5724)+(-0.0601)Cit+(-0.0249)Val+(-0.0124)Lys+(0.0360)Leu;0.644,0.697,0.617,0.612,0.627,0.743,0.515,0.625,(-0.1946)+(0.0316)Ser+(-0.0021)Gln+(0.0030)Pro+(-0.0225)Lys;0.644,0.690,0.788,0.830,0.738,0.838,0.744,0.788,(1.5205)+(0.0024)Gln+(0.0015)Thr+(-0.0086)Ala+(-0.0219)Arg;0.644,0.689,0.804,0.862,0.749,0.860,0.725,0.799,(2.2368)+(0.0029)Gln+(-0.0063)Ala+(-0.0200)Arg+(-0.0087)Val;0.644,0.679,0.639,0.640,0.674,0.730,0.502,0.636,(0.1050)+(0.0244)Ser+(-0.0015)Gln+(-0.0831)Cit+(-0.0095)Leu;0.644,0.690,0.668,0.642,0.737,0.729,0.552,0.665,(0.5968)+(-0.0967)Cit+(-0.0175)Arg+(0.0337)Orn+(0.0067)Phe;0.644,0.684,

0.627,0.695,0.574,0.603,0.576,0.612,(0.2212)+(-0.0003)Gln+(0.0033)Pro+(-0.0811)Tyr+(0.0501)Phe;0.643,0.693,0.686,0.657,0.732,0.741,0.629,0.690,(0.6412)+(0.0005)Gln+(-0.0124)Thr+(-0.1082)Cit+(0.0385)Orn;0.643,0.690,0.781,0.826,0.727,0.833,0.736,0.781,(3.6072)+(-0.0015)Gly+(-0.0058)Ala+(-0.0279)Tyr+(-0.0073)Lys;0.643,0.686,0.719,0.731,0.719,0.723,0.682,0.714,(2.4461)+(-0.1278)Asn+(0.0014)Gly+(0.0019)Thr+(0.0157)Orn;0.643,0.689,0.728,0.742,0.734,0.757,0.662,0.723,(1.9699)+(-0.0693)Cit+(-0.0115)Val+(-0.0133)Lys+(0.0571)Phe;0.643,0.697,0.652,0.662,0.639,0.767,0.569,0.659,(-0.3056)+(0.0336)Ser+(-0.0011)Gln+(-0.0103)Thr+(-0.0177)Lys;0.643,0.690,0.684,0.654,0.674,0.731,0.749,0.702,(0.9042)+(-0.0034)Thr+(-0.0260)Lys+(0.0348)Ile+(0.0094)Phe;0.643,0.685,0.673,0.730,0.666,0.719,0.502,0.654,(2.3268)+(0.0032)Thr+(-0.0252)Arg+(-0.0556)Tyr+(0.0244)Orn;0.643,0.691,0.753,0.771,0.754,0.754,0.705,0.746,(3.7805)+(-0.0849)Asn+(-0.0094)Arg+(0.0032)Pro+(-0.0077)Lys;0.643,0.675,0.640,0.641,0.672,0.729,0.509,0.638,(-0.4098)+(0.0221)Ser+(-0.0866)Cit+(0.0024)Pro+(-0.0120)Leu;0.643,0.690,0.664,0.628,0.664,0.725,0.713,0.683,(0.6754)+(0.0128)Orn+(-0.0288)Lys+(0.0315)Ile+(0.0072)Phe;0.643,0.681,0.625,0.689,0.582,0.609,0.558,0.610,(0.2291)+(-0.0008)Gln+(-0.0800)Tyr+(0.0132)Orn+(0.0487)Phe;0.643,0.696,0.729,0.801,0.711,0.788,0.533,0.709,(3.5739)+(0.0099)Thr+(-0.0217)Arg+(-0.0384)Tyr+(-0.0100)Val;0.643,0.693,0.731,0.744,0.745,0.703,0.688,0.720,(2.2778)+(-0.1229)Asn+(0.0089)Thr+(-0.0182)Arg+(0.0323)Phe;0.643,0.686,0.758,0.783,0.746,0.736,0.736,0.750,(1.5792)+(-0.1467)Asn+(0.0006)Gly+(0.0045)Gln+(0.0031)Thr;0.643,0.689,0.763,0.784,0.691,0.810,0.821,0.777,(0.3718)+(-0.0004)Gly+(-0.0046)Thr+(-0.0107)Ala+(0.0345)Phe;0.642,0.692,0.791,0.825,0.728,0.855,0.785,0.798,(1.8596)+(0.0022)Gln+(-0.0079)Ala+(-0.0136)Lys+(0.0029)Leu;0.642,0.690,0.758,0.778,0.687,0.815,0.816,0.774,(0.2256)+(-0.0009)Gly+(0.0001)Gln+(-0.0111)Ala+(0.0321)Phe;0.642,0.685,

0.759,0.785,0.742,0.735,0.741,0.751,(1.5441)+(-0.1417)Asn+(0.0007)Gly+(0.0045)Gln+(0.0008)Pro;0.642,0.685,0.777,0.836,0.698,0.817,0.755,0.777,(2.2048)+(-0.0030)Gly+(0.0025)Gln+(-0.0069)Ala+(-0.0388)Tyr;0.642,0.689,0.775,0.811,0.762,0.762,0.714,0.762,(1.7994)+(-0.1239)Asn+(0.0007)Gly+(0.0057)Gln+(-0.0181)Arg;0.642,0.687,0.717,0.712,0.710,0.710,0.751,0.721,(2.1716)+(-0.1247)Asn+(0.0035)Thr+(-0.0021)Pro+(0.0230)Ile;0.642,0.694,0.737,0.747,0.753,0.741,0.675,0.729,(2.9759)+(-0.1037)Asn+(-0.0165)Arg+(0.0009)Pro+(0.0206)Orn;0.642,0.688,0.801,0.833,0.740,0.858,0.801,0.808,(2.0748)+(-0.0019)Gly+(0.0026)Gln+(-0.0077)Ala+(-0.0128)Lys;0.642,0.680,0.636,0.614,0.661,0.699,0.592,0.642,(-1.0809)+(0.0291)Ser+(-0.0052)Gly+(-0.0866)Cit+(-0.0006)Pro;0.642,0.688,0.769,0.802,0.703,0.806,0.793,0.776,(0.4377)+(-0.0010)Gly+(-0.0099)Ala+(-0.0119)Leu+(0.0451)Phe;0.642,0.687,0.763,0.786,0.688,0.813,0.823,0.777,(0.1634)+(0.0004)Gln+(-0.0054)Thr+(-0.0107)Ala+(0.0342)Phe;0.642,0.694,0.679,0.650,0.669,0.731,0.743,0.698,(0.5433)+(0.0007)Gln+(-0.0279)Lys+(0.0342)Ile+(0.0083)Phe;0.642,0.690,0.676,0.644,0.668,0.730,0.738,0.695,(0.8268)+(-0.0001)Gly+(-0.0272)Lys+(0.0343)Ile+(0.0090)Phe;0.642,0.681,0.621,0.640,0.572,0.709,0.609,0.632,(-1.9114)+(0.0193)Ser+(-0.0321)Val+(0.0258)Leu+(0.0316)Phe;0.642,0.694,0.769,0.814,0.714,0.828,0.722,0.770,(3.2503)+(-0.0063)Ala+(-0.0280)Tyr+(-0.0091)Lys+(0.0048)Leu;0.642,0.683,0.744,0.775,0.
734,0.739,0.683,0.733,(3.5574)+(-0.1088)Asn+(0.0013)Gly+(0.0045)Pro+(-0.0128)Leu;0.642,0.685,0.670,0.741,0.610,0.616,0.648,0.653,(0.4631)+(-0.0029)Gly+(0.0008)Gln+(-0.0798)Tyr+(0.0515)Phe;0.642,0.686,0.753,0.784,0.748,0.751,0.681,0.741,(3.6468)+(-0.1182)Asn+(0.0008)Gly+(0.0072)Thr+(-0.0110)Leu;0.642,0.688,0.794,0.828,0.754,0.848,0.751,0.795,(3.1625)+(-0.0004)Gly+(-0.0070)Ala+(-0.0123)Arg+(-0.0075)Lys;0.642,0.691,0.666,0.634,0.663,0.728,0.714,0.684,(0.7556)+(0.0003)Gln+(0.0128)Or

n+(-0.0286)Lys+(0.0330)Ile;0.642,0.685,0.670,0.682,0.629,0.759,0.661,0.683,(1.6856)+(-0.0024)Gln+(-0.0354)Val+(0.0263)Orn+(0.0347)Leu;0.642,0.691,0.791,0.822,0.749,0.848,0.751,0.793,(3.0511)+(-0.0072)Ala+(-0.0122)Arg+(-0.0081)Lys+(0.0017)Leu;0.642,0.685,0.753,0.778,0.683,0.821,0.785,0.767,(1.8899)+(-0.0056)Thr+(-0.0111)Ala+(0.0113)Pro+(-0.0072)Leu;0.641,0.685,0.635,0.702,0.580,0.603,0.593,0.619,(0.2037)+(-0.0020)Thr+(0.0034)Pro+(-0.0798)Tyr+(0.0497)Phe;0.641,0.684,0.753,0.778,0.684,0.819,0.782,0.766,(1.8349)+(-0.0015)Gly+(-0.0114)Ala+(0.0107)Pro+(-0.0081)Leu;0.641,0.691,0.801,0.851,0.737,0.872,0.751,0.803,(2.2549)+(0.0022)Gln+(-0.0065)Ala+(-0.0065)Val+(-0.0093)Lys;0.641,0.686,0.736,0.755,0.689,0.802,0.737,0.746,(2.2483)+(0.0010)Gln+(-0.0295)Val+(-0.0151)Lys+(0.0392)Leu;0.641,0.685,0.717,0.732,0.671,0.779,0.725,0.727,(2.5085)+(0.0041)Pro+(-0.0305)Val+(-0.0146)Lys+(0.0380)Leu;0.641,0.687,0.608,0.563,0.573,0.671,0.753,0.640,(-3.4741)+(0.0441)Ser+(-0.0065)Gly+(-0.0280)Thr+(0.0250)Ile;0.641,0.687,0.764,0.797,0.758,0.753,0.697,0.751,(1.8680)+(-0.1337)Asn+(0.0055)Gln+(0.0072)Thr+(-0.0204)Arg;0.641,0.686,0.724,0.731,0.726,0.720,0.706,0.721,(2.5699)+(-0.1258)Asn+(0.0023)Thr+(0.0002)Pro+(0.0156)Orn;0.641,0.686,0.758,0.814,0.691,0.807,0.713,0.757,(2.9480)+(-0.0026)Gly+(0.0054)Thr+(-0.0069)Ala+(-0.0393)Tyr;0.641,0.685,0.736,0.769,0.731,0.793,0.622,0.729,(2.7257)+(-0.0021)Gly+(-0.0257)Arg+(-0.0170)Val+(0.0332)Orn;0.641,0.685,0.761,0.832,0.699,0.758,0.702,0.748,(2.6608)+(-0.0038)Gly+(0.0023)Gln+(-0.0439)Tyr+(-0.0103)Val;0.641,0.686,0.756,0.821,0.677,0.823,0.702,0.756,(1.9294)+(0.0015)Gln+(0.0014)Thr+(-0.0071)Ala+(-0.0371)Tyr;0.641,0.700,0.633,0.636,0.643,0.758,0.516,0.638,(-0.7168)+(0.0268)Ser+(0.0169)Orn+(-0.0247)Lys+(-0.0022)Leu;0.641,0.687,0.757,0.782,0.756,0.770,0.684,0.748,(3.7150)+(-0.0864)Asn+(0.0016)Gly+(-0.0092)Arg+(-0.0065)Lys;0.640,0.690,0.587,0.573,0.608,0.698,0.498,0.594,(-2.8854)+(0.0282)Ser+(-0.038

9)Arg+(0.0228)Ile+(0.0031)Phe;0.640,0.687,0.742,0.759,0.736,0.752,0.699,0.737,(3.4315)+(-0.0958)Asn+(0.0015)Gly+(0.0031)Pro+(-0.0092)Lys;0.640,0.689,0.588,0.574,0.609,0.699,0.499,0.595,(-2.7510)+(0.0283)Ser+(-0.0383)Arg+(-0.0022)Orn+(0.0244)Ile;0.640,0.677,0.618,0.590,0.648,0.677,0.588,0.626,(-1.8851)+(0.0290)Ser+(-0.0047)Gly+(-0.0909)Cit+(0.0134)Phe;0.640,0.690,0.723,0.737,0.681,0.801,0.716,0.734,(2.5119)+(0.0048)Thr+(-0.0308)Val+(-0.0162)Lys+(0.0412)Leu;0.640,0.689,0.678,0.646,0.726,0.731,0.626,0.682,(0.5478)+(-0.0121)Thr+(-0.1077)Cit+(0.0381)Orn+(0.0065)Phe;0.640,0.686,0.759,0.782,0.747,0.733,0.745,0.752,(1.5962)+(-0.1463)Asn+(0.0045)Gln+(0.0031)Thr+(0.0004)Pro;0.640,0.688,0.770,0.804,0.702,0.807,0.798,0.778,(0.4278)+(-0.0039)Thr+(-0.0096)Ala+(-0.0114)Leu+(0.0466)Phe;0.640,0.677,0.582,0.552,0.630,0.664,0.500,0.587,(-1.4625)+(0.0277)Ser+(-0.0030)Gln+(-0.0917)Cit+(0.0220)Phe;0.640,0.682,0.602,0.613,0.589,0.689,0.537,0.607,(-1.0140)+(0.0265)Ser+(-0.0045)Gln+(-0.0190)Val+(0.0503)Phe;0.640,0.688,0.796,0.844,0.745,0.845,0.741,0.794,(1.6787)+(0.0026)Gln+(-0.0079)Ala+(-0.0212)Arg+(-0.0038)Leu;0.639,0.684,0.753,0.776,0.744,0.750,0.709,0.745,(3.9284)+(-0.0946)Asn+(0.0045)Pro+(-0.0057)Lys+(-0.0097)Leu;0.639,0.689,0.730,0.743,0.750,0.736,0.650,0.720,(3.0048)+(-0.1114)Asn+(0.0058)Thr+(-0.0181)Arg+(0.0187)Orn;0.639,0.684,0.744,0.773,0.736,0.739,0.686,0.733,(3.6776)+(-0.1174)Asn+(0.0061)Thr+(0.0038)Pro+(-0.0135)Leu;0.639,0.689,0.780,0.817,0.745,0.846,0.705,0.778,(3.0036)+(0.0073)Thr+(-0.0074)Ala+(-0.0155)Arg+(-0.0095)Lys;0.639,0.687,0.761,0.825,0.680,0.824,0.712,0.760,(1.9422)+(0.0017)Gln+(-0.0070)Ala+(-0.0360)Tyr+(-0.0006)Leu;0.639,0.685,0.726,0.732,0.727,0.685,0.734,0.720,(1.9283)+(-0.1357)Asn+(0.0048)Thr+(-0.0002)Pro+(0.0289)Phe;0.639,0.684,0.784,0.818,0.743,0.839,0.740,0.785,(2.4489)+(-0.0007)Gly+(0.0039)Thr+(-0.0084)Ala+(-0.0194)Arg;0.639,0.690,0.615,0.626,0.639,0.712,0.465,0.610,(-2.4847)+(0.0275)Ser+(-0.

0369)Arg+(-0.0002)Pro+(0.0183)Phe;0.639,0.688,0.728,0.763,0.724,0.800,0.590,0.719,(2.4132)+(-0.0014)Thr+(-0.0259)Arg+(-0.0166)Val+(0.0326)Orn;0.639,0.683,0.740,0.754,0.696,0.797,0.755,0.751,(2.8303)+(-0.0012)Gly+(-0.0297)Val+(-0.0138)Lys+(0.0396)Leu;0.639,0.687,0.740,0.807,0.690,0.757,0.652,0.727,(3.3671)+(-0.0035)Gly+(0.0052)Thr+(-0.0442)Tyr+(-0.0104)Val;0.639,0.681,0.719,0.745,0.723,0.734,0.630,0.708,(1.5711)+(-0.0573)Cit+(-0.0142)Arg+(-0.0157)Val+(0.0516)Phe;0.639,0.688,0.710,0.769,0.674,0.726,0.619,0.697,(2.5684)+(-0.0041)Gly+(-0.0564)Tyr+(0.0264)Orn+(-0.0117)Leu;0.639,0.681,0.647,0.719,0.593,0.610,0.597,0.630,(0.1813)+(0.0001)Gln+(-0.0011)Thr+(-0.0772)Tyr+(0.0524)Phe;0.638,0.681,0.570,0.526,0.612,0.671,0.525,0.583,(-2.5381)+(0.0231)Ser+(-0.1003)Cit+(0.0221)Ile+(0.0017)Phe;0.638,0.680,0.677,0.688,0.632,0.742,0.698,0.690,(-0.1664)+(0.0299)Ser+(-0.0092)Gly+(0.0046)Pro+(-0.0170)Val;0.638,0.676,0.695,0.696,0.717,0.732,0.618,0.691,(1.2245)+(-0.0201)Arg+(0.0229)Orn+(-0.0205)Lys+(0.0244)Phe;0.638,0.681,0.619,0.566,0.684,0.688,0.574,0.628,(-0.0509)+(-0.0012)Gln+(-0.1103)Cit+(0.0286)Orn+(0.0147)Ile;0.638,0.684,0.582,0.541,0.619,0.685,0.535,0.595,(-2.3107)+(0.0233)Ser+(-0.0988)Cit+(-0.0051)Pro+(0.0298)Ile;0.638,0.688,0.799,0.846,0.754,0.859,0.725,0.796,(3.4936)+(-0.0057)Ala+(-0.0135)Arg+(-0.0071)Val+(-0.0036)Lys;0.638,0.676,0.600,0.579,0.645,0.696,0.491,0.603,(-0.5622)+(0.0259)Ser+(-0.0023)Gln+(-0.0878)Cit+(0.0006)Pro;0.638,0.680,0.661,0.731,0.605,0.606,0.634,0.644,(0.6768)+(-0.0028)Gly+(0.0016)Thr+(-0.0801)Tyr+(0.0524)Phe;0.638,0.692,0.611,0.612,0.651,0.735,0.438,0.609,(-1.0123)+(0.0288)Ser+(-0.0026)Gln+(-0.0329)Arg+(0.0097)Orn;0.638,0.685,0.703,0.768,0.683,0.729,0.558,0.684,(3.1706)+(-0.0194)Arg+(0.0075)Pro+(-0.0483)Tyr+(-0.0099)Leu;0.638,0.685,0.787,0.818,0.734,0.854,0.766,0.793,(2.8476)+(-0.0013)Gly+(0.0044)Thr+(-0.0077)Ala+(-0.0122)Lys;0.638,0.688,0.790,0.829,0.729,0.858,0.765,0.795,(1.9270)+(0.0021)

Gln+(0.0016)Thr+(-0.0078)Ala+(-0.0132)Lys;0.638,0.688,0.779,0.808,0.727,0.851,0.758,0.786,(2.5727)+(0.0036)Thr+(-0.0079)Ala+(-0.0131)Lys+(0.0031)Leu;0.638,0.681,0.625,0.575,0.684,0.703,0.576,0.635,(-0.2525)+(-0.1113)Cit+(0.0273)Orn+(0.0164)Ile+(-0.0082)Phe;0.638,0.694,0.686,0.711,0.647,0.800,0.616,0.694,(-0.6859)+(0.0254)Ser+(-0.0189)Thr+(-0.0140)Val+(0.0233)Orn;0.638,0.688,0.545,0.488,0.537,0.657,0.633,0.579,(-2.7832)+(0.0403)Ser+(-0.0039)Gln+(-0.0259)Thr+(0.0311)Ile;0.637,0.687,0.789,0.815,0.737,0.853,0.784,0.797,(2.8092)+(-0.0008)Gly+(-0.0076)Ala+(-0.0116)Lys+(0.0028)Leu;0.637,0.683,0.735,0.761,0.739,0.733,0.655,0.722,(3.0997)+(-0.1017)Asn+(0.0021)Gly+(-0.0137)Arg+(0.0027)Pro;0.637,0.681,0.760,0.790,0.752,0.762,0.699,0.751,(3.8505)+(-0.0937)Asn+(0.0011)Gly+(-0.0055)Lys+(-0.0064)Leu;0.637,0.683,0.707,0.752,0.675,0.723,0.642,0.698,(3.2237)+(-0.0020)Gly+(0.0058)Pro+(-0.0492)Tyr+(-0.0117)Lys;0.637,0.684,0.740,0.764,0.748,0.753,0.650,0.728,(3.9100)+(-0.0974)Asn+(0.0118)Thr+(-0.0127)Arg+(-0.0089)Lys;0.637,0.679,0.701,0.756,0.664,0.732,0.608,0.690,(2.1342)+(0.0021)Gln+(0.0053)Pro+(-0.0493)Tyr+(-0.0141)Lys;0.637,0.681,0.681,0.687,0.649,0.757,0.678,0.693,(0.6607)+(0.0330)Ser+(-0.0083)Gly+(-0.0023)Gln+(-0.0143)Val;0.637,0.696,0.656,0.664,0.642,0.770,0.582,0.664,(-0.6475)+(0.0327)Ser+(-0.0111)Thr+(-0.0185)Lys+(0.0006)Leu;0.637,0.694,0.631,0.633,0.637,0.756,0.524,0.637,(-0.1217)+(0.0309)Ser+(-0.0018)Gln+(-0.0216)Lys+(0.0005)Leu;0.637,0.682,0.759,0.773,0.697,0.825,0.801,0.774,(1.3546)+(-0.0011)Gly+(-0.0068)Thr+(-0.0097)Ala+(0.0206)Orn;0.636,0.685,0.703,0.725,0.689,0.776,0.619,0.702,(2.0355)+(0.0038)Pro+(-0.0144)Val+(0.0283)Orn+(-0.0150)Lys;0.636,0.684,0.801,0.849,0.754,0.855,0.731,0.797,(3.4294)+(-0.0007)Gly+(-0.0059)Ala+(-0.0154)Arg+(-0.0082)Val;0.636,0.687,0.745,0.813,0.700,0.787,0.630,0.732,(2.5001)+(0.0024)Gln+(-0.0358)Tyr+(-0.0078)Val+(-0.0090)Lys;0.636,0.685,0.800,0.841,0.744,0.865,0.760,0.803,(3.2639)+

(-0.0012)Gly+(-0.0061)Ala+(-0.0067)Val+(-0.0072)Lys;0.636,0.681,0.752,0.777,0.754,0.805,0.645,0.745,(2.3887)+(0.0034)Gln+(-0.0736)Cit+(-0.0070)Val+(-0.0125)Lys;0.636,0.693,0.633,0.640,0.634,0.753,0.529,0.639,(-0.6692)+(0.0285)Ser+(0.0028)Pro+(-0.0229)Lys+(-0.0022)Leu;0.636,0.684,0.629,0.645,0.581,0.751,0.600,0.644,(-0.9269)+(0.0164)Ser+(-0.0341)Val+(0.0148)Orn+(0.0326)Leu;0.636,0.687,0.784,0.840,0.739,0.858,0.676,0.778,(3.1615)+(0.0067)Thr+(-0.0063)Ala+(-0.0194)Arg+(-0.0090)Val;0.636,0.674,0.644,0.620,0.669,0.694,0.619,0.650,(0.0720)+(0.0032)Gly+(-0.0105)Thr+(-0.0913)Cit+(0.0267)Ile;0.636,0.685,0.726,0.751,0.711,0.796,0.642,0.725,(2.1935)+(-0.0033)Thr+(-0.0130)Val+(0.0315)Orn+(-0.0136)Lys;0.636,0.681,0.751,0.775,0.748,0.764,0.680,0.742,(3.9716)+(-0.1058)Asn+(0.0096)Thr+(-0.0077)Lys+(-0.0071)Leu;0.636,0.682,0.720,0.723,0.742,0.750,0.642,0.714,(1.8439)+(-0.0771)Cit+(-0.0162)Lys+(-0.0097)Leu+(0.0505)Phe;0.636,0.689,0.608,0.613,0.641,0.727,0.444,0.606,(-1.0163)+(0.0295)Ser+(-0.0023)Gln+(-0.0321)Arg+(0.0017)Pro;0.635,0.686,0.736,0.756,0.717,0.794,0.680,0.737,(2.5633)+(-0.0027)Gly+(-0.0134)Val+(0.0318)Orn+(-0.0143)Lys;0.635,0.683,0.703,0.722,0.650,0.773,0.714,0.715,(1.1406)+(-0.0089)Thr+(-0.0330)Val+(0.0270)Orn+(0.0314)Leu;0.635,0.681,0.736,0.777,0.718,0.746,0.657,0.724,(1.6317)+(-0.0187)Arg+(-0.0153)Val+(-0.0085)Lys+(0.0530)Phe;0.635,0.690,0.787,0.834,0.732,0.866,0.719,0.788,(2.9681)+(0.0045)Thr+(-0.0064)Ala+(-0.0068)Val+(-0.0090)Lys;0.635,0.679,0.653,0.623,0.716,0.721,0.556,0.654,(0.5971)+(-0.0007)Gln+(-0.1113)Cit+(-0.0032)Pro+(0.0362)Orn;0.635,0.676,0.648,0.621,0.709,0.718,0.542,0.648,(0.1986)+(0.0006)Gly+(-0.1129)Cit+(-0.0033)Pro+(0.0348)Orn;0.635,0.684,0.736,0.749,0.736,0.747,0.695,0.732,(3.6008)+(-0.1044)Asn+(0.0084)Thr+(0.0021)Pro+(-0.0111)Lys;0.635,0.684,0.728,0.805,0.677,0.760,0.609,0.713,(2.2876)+(0.0012)Gln+(0.0007)Thr+(-0.0416)Tyr+(-0.0103)Val;0.635,0.684,0.729,0.766,0.696,0.751,0.685,0.724,(1

.3860)+(-0.0235)Arg+(-0.0301)Val+(0.0255)Leu+(0.0405)Phe;0.635,0.687,0.700,0.761,0.693,0.747,0.519
,0.680,(3.3176)+(0.0110)Thr+(-0.0181)Arg+(-0.0442)Tyr+(-0.0101)Lys;0.635,0.679,0.689,0.758,0.659,0.705,0.555,0.669,(1.7682)+(0.0025)Gln+(-0.0237)Arg+(0.0053)Pro+(-0.0557)Tyr;0.635,0.683,0.665,0.729,0.648,0.702,0.507,0.646,(2.5552)+(0.0062)Thr+(-0.0235)Arg+(0.0055)Pro+(-0.0575)Tyr;0.635,0.678,0.709,0.722,0.726,0.760,0.602,0.703,(1.4233)+(0.0017)Gln+(-0.0213)Arg+(0.0236)Orn+(-0.0188)Lys;0.635,0.682,0.757,0.774,0.692,0.829,0.795,0.772,(1.0756)+(0.0003)Gln+(-0.0079)Thr+(-0.0097)Ala+(0.0203)Orn;0.635,0.673,0.716,0.735,0.708,0.759,0.652,0.714,(2.9930)+(-0.0524)Cit+(-0.0114)Arg+(-0.0262)Val+(0.0299)Leu;0.635,0.683,0.794,0.832,0.750,0.847,0.747,0.794,(2.7137)+(-0.0005)Gly+(-0.0076)Ala+(-0.0171)Arg+(-0.0028)Leu;0.634,0.673,0.605,0.557,0.667,0.687,0.541,0.613,(-0.7919)+(0.0014)Gly+(-0.1137)Cit+(0.0259)Orn+(0.0152)Ile;0.634,0.680,0.693,0.749,0.666,0.697,0.595,0.677,(2.9472)+(-0.0016)Gly+(-0.0189)Arg+(0.0059)Pro+(-0.0545)Tyr;0.634,0.682,0.691,0.753,0.659,0.727,0.567,0.677,(1.9221)+(-0.0048)Thr+(-0.0512)Tyr+(0.0254)Orn+(-0.0109)Leu;0.634,0.668,0.706,0.718,0.695,0.753,0.663,0.707,(2.5080)+(-0.0008)Thr+(-0.0638)Cit+(-0.0260)Val+(0.0287)Leu;0.634,0.686,0.749,0.810,0.678,0.817,0.685,0.747,(2.5074)+(0.0031)Thr+(-0.0070)Ala+(-0.0362)Tyr+(-0.0001)Leu;0.634,0.683,0.676,0.745,0.645,0.718,0.530,0.659,(1.7884)+(-0.0001)Gln+(-0.0544)Tyr+(0.0228)Orn+(-0.0110)Leu;0.634,0.682,0.768,0.822,0.701,0.812,0.733,0.767,(3.0239)+(-0.0019)Gly+(-0.0066)Ala+(-0.0346)Tyr+(-0.0001)Leu;0.634,0.679,0.669,0.692,0.620,0.717,0.675,0.676,(-0.1762)+(-0.0339)Val+(0.0199)Orn+(0.0262)Leu+(0.0254)Phe;0.634,0.672,0.599,0.581,0.636,0.669,0.516,0.601,(-2.1747)+(0.0235)Ser+(-0.0969)Cit+(-0.0016)Pro+(0.0191)Phe;0.634,0.683,0.705,0.721,0.647,0.761,0.741,0.717,(1.2502)+(-0.0034)Gly+(-0.0346)Val+(0.0244)Orn+(0.0319)Leu;0.63

4,0.679,0.706,0.710,0.738,0.770,0.579,0.699,(2.8091)+(0.0019)Gly+(-0.0781)Cit+(0.0028)Pro+(-0.0154)Lys;0.634,0.669,0.694,0.704,0.685,0.741,0.651,0.695,(2.3098)+(-0.0649)Cit+(0.0040)Pro+(-0.0268)Val+(0.0268)Leu;0.633,0.674,0.619,0.636,0.568,0.733,0.596,0.633,(-0.8521)+(0.0184)Ser+(0.0030)Pro+(-0.0325)Val+(0.0310)Leu;0.633,0.685,0.784,0.826,0.742,0.847,0.713,0.782,(2.5230)+(0.0040)Thr+(-0.0079)Ala+(-0.0196)Arg+(-0.0032)Leu;0.633,0.683,0.756,0.790,0.755,0.747,0.677,0.742,(4.0637)+(-0.0912)Asn+(-0.0123)Arg+(0.0050)Pro+(-0.0126)Leu;0.633,0.676,0.723,0.740,0.732,0.776,0.622,0.718,(3.4541)+(-0.0660)Cit+(0.0054)Pro+(-0.0095)Val+(-0.0100)Lys;0.633,0.680,0.698,0.751,0.671,0.726,0.592,0.685,(2.9405)+(0.0064)Pro+(-0.0470)Tyr+(-0.0109)Lys+(-0.0044)Leu;0.633,0.675,0.730,0.737,0.748,0.783,0.636,0.726,(1.8940)+(0.0035)Gln+(-0.0819)Cit+(0.0018)Pro+(-0.0178)Lys;0.633,0.677,0.753,0.768,0.687,0.832,0.793,0.770,(1.1291)+(-0.0018)Gly+(0.0000)Gln+(-0.0103)Ala+(0.0165)Orn;0.633,0.668,0.702,0.713,0.694,0.753,0.652,0.703,(2.4112)+(0.0003)Gly+(-0.0647)Cit+(-0.0261)Val+(0.0287)Leu;0.633,0.677,0.802,0.852,0.726,0.863,0.787,0.807,(2.1087)+(-0.0022)Gly+(0.0016)Gln+(-0.0071)Ala+(-0.0093)Val;0.633,0.687,0.763,0.801,0.759,0.765,0.670,0.749,(3.9344)+(-0.0915)Asn+(0.0014)Gly+(-0.0113)Arg+(-0.0088)Leu;0.633,0.679,0.680,0.734,0.652,0.721,0.568,0.669,(2.7944)+(0.0046)Thr+(0.0054)Pro+(-0.0503)Tyr+(-0.0138)Lys;0.633,0.677,0.659,0.713,0.612,0.665,0.610,0.650,(1.8551)+(-0.0037)Gly+(0.0038)Pro+(-0.0681)Tyr+(0.0185)Orn;0.633,0.681,0.684,0.678,0.721,0.748,0.578,0.681,(1.3520)+(0.0032)Gly+(-0.0851)Cit+(-0.0199)Lys+(0.0451)Phe;0.633,0.678,0.720,0.740,0.718,0.707,0.681,0.712,(2.7182)+(-0.1259)Asn+(0.0015)Gly+(0.0044)Thr+(0.0014)Pro;0.633,0.683,0.702,0.766,0.658,0.699,0.627,0.687,(2.7842)+(-0.0030)Gly+(0.0068)Pro+(-0.0563)Tyr+(-0.0108)Leu;0.632,0.680,0.737,0.757,0.735,0.751,0.676,0.730,(3.5888)+(-0.1056)Asn+(0.0008)Gly+(0.0090)Thr+(-0.0104)Lys;0.63

2,0.679,0.743,0.797,0.718,0.750,0.648,0.728,(0.7449)+(0.0015)Gln+(-0.0261)Arg+(-0.0181)Val+(0.0473)Phe;0.632,0.673,0.699,0.709,0.721,0.749,0.593,0.693,(1.9757)+(-0.0196)Arg+(0.0005)Pro+(0.0252)Orn+(-0.0182)Lys;0.632,0.686,0.724,0.788,0.693,0.783,0.577,0.710,(3.2545)+(0.0065)Thr+(-0.0370)Tyr+(-0.0080)Val+(-0.0091)Lys;0.632,0.678,0.735,0.757,0.747,0.793,0.612,0.727,(3.4790)+(0.0010)Gly+(-0.0679)Cit+(-0.0071)Val+(-0.0097)Lys;0.632,0.684,0.750,0.814,0.724,0.793,0.604,0.734,(3.7721)+(-0.0145)Arg+(-0.0306)Tyr+(-0.0084)Val+(-0.0028)Lys;0.632,0.676,0.716,0.714,0.734,0.753,0.655,0.714,(0.7816)+(0.0033)Gln+(-0.0860)Cit+(-0.0217)Lys+(0.0392)Phe;0.632,0.678,0.711,0.775,0.676,0.755,0.585,0.698,(2.1644)+(0.0021)Gln+(0.0042)Thr+(-0.0451)Tyr+(-0.0146)Lys;0.632,0.685,0.740,0.763,0.708,0.797,0.706,0.744,(3.0805)+(-0.0140)Arg+(-0.0292)Val+(-0.0095)Lys+(0.0381)Leu;0.632,0.690,0.613,0.622,0.640,0.715,0.461,0.609,(-2.5061)+(0.0271)Ser+(-0.0374)Arg+(0.0033)Orn+(0.0167)Phe;0.632,0.674,0.712,0.735,0.738,0.718,0.592,0.695,(1.2118)+(-0.0677)Cit+(-0.0146)Arg+(-0.0190)Leu+(0.0451)Phe;0.632,0.671,0.707,0.712,0.727,0.753,0.616,0.702,(2.1526)+(-0.0010)Gly+(-0.0190)Arg+(0.0260)Orn+(-0.0181)Lys;0.632,0.669,0.707,0.721,0.696,0.754,0.660,0.708,(2.0555)+(0.0009)Gln+(-0.0666)Cit+(-0.0258)Val+(0.0276)Leu;0.632,0.681,0.752,0.791,0.759,0.756,0.634,0.735,(4.1163)+(-0.1049)Asn+(0.0110)Thr+(-0.0153)Arg+(-0.0107)Leu;0.632,0.679,0.666,0.646,0.701,0.702,0.616,0.666,(0.7950)+(-0.0764)Cit+(-0.0152)Arg+(-0.0038)Pro+(0.0288)Ile;0.632,0.674,0.628,0.592,0.698,0.706,0.521,0.629,(0.3611)+(0.0012)Gly+(-0.0012)Gln+(-0.1117)Cit+(0.0338)Orn;0.632,0.673,0.743,0.779,0.744,0.784,0.620,0.732,(2.1200)+(0.0030)Gln+(-0.0604)Cit+(-0.0150)Arg+(-0.0112)Val;0.631,0.675,0.732,0.744,0.750,0.789,0.623,0.727,(1.8999)+(0.0006)Gly+(0.0035)Gln+(-0.0823)Cit+(-0.0172)Lys;0.631,0.681,0.759,0.825,0.727,0.785,0.636,0.743,(3.9874)+(-0.0018)Gly+(-0.0151)Arg+(-0.0330)Tyr+(-0.0092)Va

l;0.631,0.679,0.720,0.754,0.686,0.769,0.666,0.719,(2.4904)+(-0.0220)Arg+(0.0053)Pro+(-0.0311)Val+(0.0313)Leu;0.631,0.672,0.668,0.692,0.615,0.745,0.661,0.678,(0.5959)+(0.0021)Pro+(-0.0344)Val+(0.0206)Orn+(0.0307)Leu;0.631,0.676,0.633,0.613,0.681,0.691,0.546,0.633,(0.2355)+(0.0027)Gly+(-0.0804)Cit+(-0.0172)Arg+(0.0257)Ile;0.631,0.676,0.739,0.752,0.754,0.792,0.637,0.734,(1.9791)+(0.0036)Gln+(-0.0811)Cit+(-0.0167)Lys+(-0.0014)Leu;0.631,0.672,0.702,0.712,0.724,0.751,0.597,0.696,(2.0044)+(-0.0006)Thr+(-0.0193)Arg+(0.0258)Orn+(-0.0179)Lys;0.631,0.687,0.720,0.747,0.706,0.796,0.622,0.718,(2.0759)+(0.0001)Gln+(-0.0131)Val+(0.0299)Orn+(-0.0148)Lys;0.631,0.683,0.761,0.785,0.702,0.834,0.766,0.772,(1.5016)+(-0.0071)Thr+(-0.0088)Ala+(0.0236)Orn+(-0.0071)Leu;0.631,0.679,0.719,0.767,0.697,0.726,0.636,0.706,(1.2651)+(-0.0250)Arg+(0.0045)Pro+(-0.0193)Val+(0.0455)Phe;0.631,0.667,0.692,0.702,0.686,0.718,0.658,0.691,(1.1734)+(-0.0676)Cit+(-0.0254)Val+(0.0202)Leu+(0.0381)Phe;0.630,0.667,0.716,0.742,0.722,0.754,0.605,0.706,(3.0908)+(-0.0560)Cit+(-0.0127)Arg+(0.0057)Pro+(-0.0130)Val;0.630,0.682,0.772,0.802,0.768,0.772,0.698,0.760,(4.1987)+(-0.0835)Asn+(-0.0093)Arg+(-0.0036)Lys+(-0.0071)Leu;0.630,0.682,0.699,0.774,0.678,0.731,0.519,0.675,(1.8129)+(0.0025)Gln+(0.0055)Thr+(-0.0255)Arg+(-0.0524)Tyr;0.630,0.677,0.704,0.696,0.734,0.737,0.640,0.702,(1.8656)+(-0.0788)Cit+(0.0008)Pro+(-0.0193)Lys+(0.0405)Phe;0.630,0.677,0.718,0.728,0.748,0.778,0.587,0.710,(3.0141)+(0.0017)Gly+(-0.0763)Cit+(-0.0141)Lys+(-0.0007)Leu;0.630,0.670,0.707,0.726,0.705,0.723,0.646,0.700,(1.1769)+(-0.0026)Thr+(-0.0699)Cit+(-0.0153)Val+(0.0475)Phe;0.629,0.672,0.670,0.646,0.685,0.690,0.688,0.677,(0.0333)+(0.0014)Gln+(-0.0103)Thr+(-0.0886)Cit+(0.0235)Ile;0.629,0.677,0.668,0.645,0.701,0.695,0.641,0.671,(0.8624)+(-0.0046)Thr+(-0.0755)Cit+(-0.0133)Arg+(0.0249)Ile;0.629,0.675,0.707,0.699,0.737,0.738,0.639,0.703,(1.9009)+(-0.0775)Cit+(-0.0013)Arg+(-0.0188)Lys+(0.0413

)Phe;0.629,0.676,0.712,0.742,0.681,0.733,0.679,0.709,(1.0961)+(0.0037)Pro+(-0.0157)Val+(-0.0144)Lys+(0.0457)Phe;0.629,0.686,0.624,0.637,0.653,0.739,0.444,0.618,(-1.7461)+(0.0258)Ser+(-0.0356)Arg+(0.0003)Pro+(0.0062)Orn;0.629,0.677,0.733,0.751,0.748,0.795,0.607,0.726,(3.5163)+(0.0052)Thr+(-0.0684)Cit+(-0.0075)Val+(-0.0115)Lys;0.629,0.676,0.733,0.744,0.752,0.786,0.627,0.727,(1.9537)+(0.0035)Gln+(0.0015)Thr+(-0.0820)Cit+(-0.0178)Lys;0.629,0.672,0.736,0.784,0.715,0.738,0.649,0.721,(1.2895)+(-0.0002)Gly+(-0.0238)Arg+(-0.0179)Val+(0.0492)Phe;0.629,0.671,0.711,0.732,0.731,0.768,0.570,0.700,(2.3181)+(-0.0210)Arg+(0.0285)Orn+(-0.0139)Lys+(-0.0099)Leu;0.629,0.678,0.749,0.792,0.708,0.799,0.684,0.746,(2.0092)+(0.0016)Gln+(-0.0229)Arg+(-0.0298)Val+(0.0318)Leu;0.629,0.676,0.693,0.702,0.648,0.741,0.727,0.704,(-1.0166)+(0.0395)Ser+(-0.0077)Gly+(-0.0187)Thr+(-0.0114)Leu;0.629,0.677,0.760,0.783,0.702,0.835,0.764,0.771,(1.5432)+(-0.0021)Gly+(-0.0092)Ala+(0.0203)Orn+(-0.0081)Leu;0.629,0.678,0.735,0.787,0.715,0.746,0.628,0.719,(3.5723)+(-0.0014)Gly+(-0.0126)Arg+(-0.0390)Tyr+(-0.0076)Lys;0.629,0.675,0.739,0.753,0.755,0.786,0.631,0.732,(1.9351)+(0.0039)Gln+(-0.0772)Cit+(-0.0056)Arg+(-0.0161)Lys;0.629,0.670,0.715,0.740,0.746,0.754,0.555,0.699,(2.4199)+(0.0010)Gly+(-0.0679)Cit+(-0.0123)Arg+(-0.0099)Leu;0.629,0.672,0.653,0.629,0.696,0.687,0.605,0.654,(0.6327)+(-0.0763)Cit+(-0.0163)Arg+(0.0234)Ile+(0.0014)Phe;0.629,0.676,0.722,0.725,0.749,0.770,0.621,0.716,(3.1433)+(-0.0737)Cit+(0.0032)Pro+(-0.0138)Lys+(-0.0036)Leu;0.629,0.669,0.731,0.761,0.740,0.773,0.599,0.718,(3.1529)+(0.0005)Gly+(-0.0584)Cit+(-0.0110)Arg+(-0.0105)Val;0.628,0.675,0.716,0.726,0.748,0.777,0.581,0.708,(3.0161)+(0.0018)Gly+(-0.0749)Cit+(-0.0020)Arg+(-0.0139)Lys;0.628,0.671,0.718,0.718,0.748,0.764,0.620,0.712,(3.1077)+(-0.0725)Cit+(-0.0024)Arg+(0.0026)Pro+(-0.0146)Lys;0.628,0.672,0.668,0.642,0.688,0.696,0.676,0.676,(0.5911)+(-0.0075)Thr+(-0.0862)Cit+(-0.0037)Pr

o+(0.0290)Ile;0.628,0.672,0.648,0.617,0.708,0.713,0.558,0.649,(-0.013
2)+(-0.1125)Cit+(-0.0038)Pro+(0.0342)Orn+(0.0073)Phe;0.628,0.677,0.75
4,0.811,0.715,0.780,0.666,0.743,(3.7467)+(-0.0022)Gly+(-0.0345)Tyr+(-
0.0080)Val+(-0.0062)Lys;0.628,0.675,0.711,0.711,0.745,0.767,0.601,0.7
06,(3.0107)+(0.0036)Thr+(-0.0765)Cit+(0.0022)Pro+(-0.0164)Lys;0.628,0
.666,0.734,0.763,0.727,0.769,0.645,0.726,(1.9593)+(0.0022)Gln+(-0.003
4)Thr+(-0.0718)Cit+(-0.0110)Val;0.628,0.678,0.728,0.759,0.739,0.729,0
.622,0.712,(3.2239)+(-0.1120)Asn+(0.0016)Gly+(0.0089)Thr+(-0.0163)Arg
;0.628,0.680,0.574,0.533,0.544,0.676,0.672,0.606,(-3.8726)+(0.0359)Se
r+(-0.0285)Thr+(-0.0022)Pro+(0.0303)Ile;0.628,0.680,0.793,0.847,0.715
,0.870,0.760,0.798,(1.9243)+(
0.0012)Gln+(-0.0013)Thr+(-0.0070)Ala+(-0.0090)Val;0.628,0.668,0.731,0
.763,0.750,0.763,0.585,0.715,(1.5219)+(0.0029)Gln+(-0.0695)Cit+(-0.01
61)Arg+(-0.0116)Leu;0.628,0.682,0.736,0.812,0.710,0.765,0.570,0.714,(
2.0330)+(0.0032)Gln+(-0.0227)Arg+(-0.0439)Tyr+(-0.0071)Leu;0.628,0.67
0,0.689,0.707,0.695,0.715,0.606,0.681,(0.7985)+(0.0013)Gly+(-0.0736)C
it+(-0.0157)Val+(0.0477)Phe;0.628,0.680,0.749,0.779,0.686,0.836,0.736
,0.759,(1.2767)+(-0.0003)Gln+(-0.0093)Ala+(0.0196)Orn+(-0.0075)Leu;0.
628,0.676,0.710,0.717,0.746,0.774,0.571,0.702,(2.9396)+(0.0014)Gly+(0
.0038)Thr+(-0.0782)Cit+(-0.0159)Lys;0.628,0.671,0.663,0.636,0.685,0.6
87,0.676,0.671,(0.5026)+(-0.0087)Thr+(-0.0862)Cit+(0.0241)Ile+(0.0005
)Phe;0.628,0.680,0.729,0.788,0.711,0.755,0.592,0.712,(3.3938)+(-0.013
6)Arg+(-0.0373)Tyr+(-0.0070)Lys+(-0.0020)Leu;0.627,0.670,0.730,0.739,
0.757,0.774,0.621,0.723,(3.3025)+(-0.0711)Cit+(-0.0022)Arg+(-0.0130)L
ys+(-0.0017)Leu;0.627,0.671,0.647,0.705,0.602,0.672,0.571,0.638,(1.34
93)+(-0.0058)Thr+(0.0040)Pro+(-0.0624)Tyr+(0.0186)Orn;0.627,0.677,0.7
32,0.753,0.743,0.722,0.660,0.720,(3.2963)+(-0.1105)Asn+(0.0087)Thr+(-
0.0164)Arg+(0.0016)Pro;0.627,0.682,0.616,0.635,0.606,0.763,0.480,0.62

1,(0.4635)+(0.0216)Ser+(-0.0040)Gln+(-0.0162)Val+(0.0203)Orn;0.627,0.670,0.746,0.773,0.743,0.764,0.669,0.737,(1.5236)+(-0.0014)Gly+(0.0030)Gln+(-0.0194)Arg+(-0.0157)Lys;0.627,0.670,0.701,0.722,0.702,0.719,0.633,0.694,(0.7397)+(0.0008)Gln+(-0.0731)Cit+(-0.0158)Val+(0.0453)Phe;0.627,0.676,0.745,0.767,0.756,0.788,0.630,0.735,(3.7123)+(-0.0618)Cit+(-0.0046)Arg+(-0.0077)Val+(-0.0081)Lys;0.627,0.677,0.750,0.807,0.704,0.759,0.689,0.740,(2.4126)+(-0.0033)Gly+(0.0033)Gln+(-0.0455)Tyr+(-0.0132)Lys;0.626,0.668,0.625,0.591,0.689,0.691,0.532,0.626,(-0.2843)+(0.0009)Gly+(-0.1126)Cit+(0.0309)Orn+(0.0035)Phe;0.626,0.674,0.723,0.744,0.724,0.739,0.655,0.715,(0.6246)+(0.0023)Gln+(-0.0202)Arg+(-0.0185)Lys+(0.0276)Phe;0.626,0.676,0.792,0.839,0.724,0.859,0.765,0.797,(2.6493)+(-0.0017)Gly+(0.0013)Thr+(-0.0069)Ala+(-0.0091)Val;0.626,0.662,0.720,0.746,0.726,0.759,0.610,0.710,(2.7102)+(0.0004)Gly+(-0.0012)Thr+(-0.0686)Cit+(-0.0108)Val;0.626,0.679,0.726,0.787,0.689,0.760,0.616,0.713,(2.1180)+(0.0025)Gln+(-0.0426)Tyr+(-0.0132)Lys+(-0.0008)Leu;0.626,0.668,0.659,0.642,0.696,0.691,0.603,0.658,(0.1063)+(0.0016)Gln+(-0.0779)Cit+(-0.0185)Arg+(0.0228)Ile;0.626,0.668,0.712,0.735,0.740,0.739,0.573,0.697,(2.4845)+(-0.0661)Cit+(-0.0133)Arg+(0.0035)Pro+(-0.0127)Leu;0.626,0.673,0.732,0.761,0.730,0.762,0.640,0.723,(1.3768)+(0.0026)Gln+(-0.0198)Arg+(0.0015)Pro+(-0.0160)Lys;0.625,0.669,0.732,0.762,0.702,0.742,0.708,0.728,(1.2718)+(-0.0009)Gly+(-0.0146)Val+(-0.0137)Lys+(0.0484)Phe;0.625,0.677,0.728,0.778,0.713,0.737,0.620,0.712,(1.1794)+(0.0031)Thr+(-0.0258)Arg+(-0.0184)Val+(0.0492)Phe;0.625,0.676,0.674,0.752,0.626,0.696,0.552,0.656,(1.8150)+(0.0008)Gln+(0.0064)Pro+(-0.0563)Tyr+(-0.0110)Leu;0.625,0.665,0.712,0.726,0.730,0.736,0.617,0.702,(2.1609)+(-0.0048)Thr+(-0.0761)Cit+(0.0034)Pro+(-0.0124)Leu;0.625,0.668,0.732,0.753,0.740,0.760,0.643,0.724,(1.3591)+(0.0024)Gln+(-0.0062)Thr+(-0.0803)Cit+(-0.0110)Leu;0.625,0.661,0.607,0.575,0.648,0.664,0.562

,0.612,(-0.2711)+(0.0022)Gly+(-0.0005)Gln+(-0.0957)Cit+(0.0229)Ile;0.625,0.666,0.689,0.706,0.691,0.711,0.629,0.684,(1.0286)+(-0.0712)Cit+(0.0031)Pro+(-0.0167)Val+(0.0434)Phe;0.625,0.686,0.704,0.777,0.696,0.745,0.496,0.679,(3.0150)+(0.0080)Thr+(-0.0224)Arg+(-0.0464)Tyr+(-0.0063)Leu;0.625,0.674,0.720,0.725,0.751,0.777,0.601,0.713,(3.1492)+(0.0045)Thr+(-0.0757)Cit+(-0.0155)Lys+(-0.0013)Leu;0.625,0.671,0.734,0.765,0.733,0.764,0.632,0.724,(1.4156)+(0.0026)Gln+(0.0014)Thr+(-0.0201)Arg+(-0.0160)Lys;0.625,0.672,0.634,0.594,0.701,0.701,0.550,0.636,(0.2856)+(-0.0010)Gln+(-0.1103)Cit+(0.0330)Orn+(0.0034)Phe;0.625,0.660,0.709,0.731,0.709,0.748,0.624,0.703,(2.6588)+(-0.0027)Thr+(-0.0673)Cit+(0.0052)Pro+(-0.0128)Val;0.624,0.669,0.622,0.686,0.581,0.654,0.516,0.609,(1.3656)+(-0.0006)Gln+(0.0038)Pro+(-0.0654)Tyr+(0.0164)Orn;0.624,0.674,0.731,0.766,0.696,0.751,0.693,0.727,(0.8707)+(0.0007)Gln+(-0.0146)Val+(-0.0146)Lys+(0.0479)Phe;0.624,0.670,0.678,0.737,0.630,0.676,0.621,0.666,(1.7553)+(-0.0039)Gly+(0.0006)Gln+(-0.0645)Tyr+(0.0197)Orn;0.624,0.674,0.697,0.688,0.731,0.742,0.620,0.695,(1.7996)+(0.0043)Thr+(-0.0812)Cit+(-0.0208)Lys+(0.0409)Phe;0.624,0.662,0.707,0.732,0.705,0.750,0.613,0.700,(1.9655)+(0.0013)Gln+(-0.0717)Cit+(0.0045)Pro+(-0.0133)Val;0.624,0.675,0.714,0.767,0.688,0.741,0.610,0.701,(3.3752)+(-0.0029)Gly+(0.0085)Thr+(-0.0474)Tyr+(-0.0132)Lys;0.624,0.662,0.675,0.693,0.701,0.694,0.556,0.661,(0.3567)+(0.0015)Gly+(-0.0848)Cit+(-0.0191)Leu+(0.0419)Phe;0.624,0.665,0.728,0.759,0.740,0.770,0.591,0.715,(3.1451)+(0.0031)Thr+(-0.0573)Cit+(-0.0128)Arg+(-0.0110)Val;0.624,0.678,0.730,0.768,0.699,0.790,0.650,0.727,(2.4659)+(0.0045)Thr+(-0.0231)Arg+(-0.0310)Val+(0.0337)Leu;0.624,0.674,0.666,0.693,0.632,0.780,0.579,0.671,(0.0894)+(0.0288)Ser+(-0.0018)Gln+(-0.0137)Thr+(-0.0113)Val;0.623,0.667,0.705,0.723,0.720,0.704,0.629,0.694,(0.9101)+(-0.0051)Thr+(-0.0788)Cit+(-0.0184)Leu+(0.0427)Phe;0.623,0.661,0.621,0.595,0.658,0.677,0.5

75,0.626,(-0.2569)+(0.0021)Gly+(-0.0955)Cit+(-0.0048)Pro+(0.0291)Ile;0.623,0.670,0.679,0.734,0.635,0.680,0.622,0.668,(1.9728)+(-0.0034)Gly+(-0.0021)Thr+(-0.0620)Tyr+(0.0215)Orn;0.623,0.663,0.710,0.728,0.733,0.746,0.587,0.699,(2.0660)+(0.0012)Gly+(-0.0042)Thr+(-0.0778)Cit+(-0.0098)Leu;0.623,0.673,0.737,0.804,0.700,0.740,0.630,0.719,(2.0477)+(-0.0030)Gly+(0.0036)Gln+(-0.0223)Arg+(-0.0515)Tyr;0.623,0.679,0.709,0.745,0.665,0.728,0.692,0.707,(0.1078)+(-0.0102)Thr+(-0.0201)Val+(0.0249)Orn+(0.0374)Phe;0.623,0.660,0.700,0.722,0.704,0.748,0.601,0.694,(2.4568)+(0.0003)Gly+(-0.0693)Cit+(0.0049)Pro+(-0.0131)Val;0.623,0.672,0.681,0.750,0.618,0.668,0.639,0.669,(1.7463)+(-0.0035)Gly+(0.0013)Gln+(0.0047)Pro+(-0.0646)Tyr;0.623,0.662,0.727,0.756,0.722,0.766,0.631,0.719,(1.9909)+(-0.0004)Gly+(0.0018)Gln+(-0.0719)Cit+(-0.0115)Val;0.623,0.661,0.610,0.580,0.651,0.666,0.569,0.616,(-0.3776)+(0.0020)Gly+(-0.0962)Cit+(0.0228)Ile+(-0.0017)Phe;0.623,0.663,0.710,0.724,0.718,0.728,0.643,0.703,(1.3238)+(0.0001)Gly+(-0.0175)Arg+(-0.0174)Lys+(0.0300)Phe;0.623,0.670,0.660,0.689,0.616,0.753,0.608,0.666,(-0.6436)+(0.0279)Ser+(-0.0182)Thr+(0.0066)Pro+(-0.0140)Val;0.622,0.674,0.699,0.759,0.675,0.744,0.559,0.684,(2.8803)+(0.0061)Thr+(-0.0442)Tyr+(-0.0133)Lys+(-0.0001)Leu;0.622,0.677,0.565,0.522,0.534,0.667,0.668,0.598,(-3.8946)+(0.0360)Ser+(-0.0292)Thr+(0.0275)Ile+(-0.0005)Phe;0.622,0.662,0.690,0.707,0.715,0.732,0.562,0.679,(1.7484)+(0.0007)Gly+(-0.0804)Cit+(0.0027)Pro+(-0.0128)Leu;0.622,0.672,0.724,0.757,0.695,0.746,0.683,0.720,(1.0747)+(0.0013)Thr+(-0.0148)Val+(-0.0145)Lys+(0.0489)Phe;0.622,0.667,0.704,0.730,0.644,0.708,0.753,0.709,(0.6445)+(-0.0019)Gly+(-0.0312)Val+(0.0257)Leu+(0.0284)Phe;0.622,0.663,0.677,0.680,0.705,0.710,0.589,0.671,(1.1865)+(0.0020)Gly+(-0.0073)Thr+(-0.0841)Cit+(0.0011)Pro;0.622,0.661,0.723,0.756,0.728,0.724,0.626,0.709,(1.3752)+(-0.0193)Arg+(-0.0124)Lys+(-0.0145)Leu+(0.0445)Phe;0.622,0.664,0.692,0.711,0.710,0.700

,0.595,0.679,(0.2327)+(0.0011)Gln+(-0.0845)Cit+(-0.0195)Leu+(0.0393)Phe;0.622,0.665,0.720,0.749,0.658,0.753,0.752,0.728,(1.8682)+(-0.0020)Gly+(-0.0004)Gln+(-0.0316)Val+(0.0325)Leu;0.622,0.660,0.640,0.613,0.671,0.678,0.621,0.646,(-0.0437)+(0.0004)Gln+(-0.0925)Cit+(-0.0049)Pro+(0.0276)Ile;0.622,0.668,0.723,0.746,0.750,0.755,0.581,0.708,(2.5748)+(0.0002)Thr+(-0.0664)Cit+(-0.0122)Arg+(-0.0102)Leu;0.622,0.675,0.620,0.652,0.584,0.697,0.551,0.621,(-2.1819)+(0.0175)Ser+(-0.0208)Val+(0.0116)Orn+(0.0389)Phe;0.621,0.663,0.684,0.700,0.708,0.693,0.589,0.672,(0.6148)+(-0.0823)Cit+(0.0015)Pro+(-0.0200)Leu+(0.0395)Phe;0.621,0.665,0.694,0.702,0.713,0.719,0.619,0.688,(0.6653)+(0.0015)Gly+(0.0017)Gln+(-0.0085)Thr+(-0.0863)Cit;0.621,0.672,0.632,0.613,0.606,0.688,0.696,0.651,(-1.4893)+(0.0431)Ser+(-0.0068)Gly+(-0.0020)Gln+(-0.0208)Thr;0.621,0.670,0.743,0.777,0.707,0.784,0.700,0.742,(2.7470)+(-0.0009)Gly+(-0.0198)Arg+(-0.0301)Val+(0.0333)Leu;0.621,0.668,0.787,0.818,0.709,0.850,0.820,0.799,(1.2841)+(-0.0014)Gly+(0.0013)Gln+(-0.0036)Thr+(-0.0092)Ala;0.621,0.661,0.630,0.597,0.666,0.668,0.614,0.636,(0.0021)+(0.0001)Gln+(-0.0924)Cit+(0.0221)Ile+(-0.0032)Phe;0.621,0.664,0.709,0.722,0.718,0.723,0.644,0.702,(1.3395)+(-0.0176)Arg+(0.0008)Pro+(-0.0176)Lys+(0.0291)Phe;0.621,0.670,0.681,0.705,0.633,0.702,0.704,0.686,(0.8547)+(-0.0015)Gln+(-0.0316)Val+(0.0268)Leu+(0.0319)Phe;0.621,0.669,0.766,0.823,0.738,0.817,0.636,0.754,(2.1481)+(0.0029)Gln+(-0.0202)Arg+(-0.0111)Val+(-0.0076)Lys;0.621,0.662,0.678,0.704,0.624,0.730,0.684,0.685,(1.7146)+(-0.0013)Gln+(0.0039)Pro+(-0.0324)Val+(0.0315)Leu;0.621,0.674,0.699,0.763,0.685,0.715,0.549,0.678,(3.1125)+(-0.0026)Gly+(0.0095)Thr+(-0.0223)Arg+(-0.0539)Tyr;0.621,0.664,0.703,0.718,0.713,0.723,0.628,0.696,(1.3119)+(0.0028)Thr+(-0.0187)Arg+(-0.0182)Lys+(0.0296)Phe;0.621,0.666,0.661,0.721,0.619,0.688,0.568,0.649,(1.3882)+(0.0001)Gln+(-0.0050)Thr+(-0.0582)Tyr+(0.0203)Orn;0.621,0.663,0.706,0.732,0.641,0.

736,0.746,0.714,(1.5823)+(-0.0024)Gly+(0.0036)Pro+(-0.0320)Val+(0.030
1)Leu;0.621,0.672,0.716,0.722,0.750,0.773,0.589,0.708,(3.1596)+(0.005
3)Thr+(-0.0730)Cit+(-0.0040)Arg+(-0.0154)Lys;0.621,0.675,0.670,0.700,
0.648,0.696,0.622,0.666,(0.4944)+(-0.0023)Gln+(-0.0213)Val+(0.0232)Or
n+(0.0395)Phe;0.620,0.676,0.632,0.614,0.594,0.673,0.732,0.653,(-2.861
9)+(0.0425)Ser+(-0.0070)Gly+(-0.0248)Thr+(0.0134)Phe;0.620,0.671,0.67
2,0.737,0.617,0.661,0.620,0.659,(2.1723)+(-0.0029)Gly+(0.0004)Thr+(0.
0049)Pro+(-0.0629)Tyr;0.620,0.674,0.732,0.809,0.675,0.715,0.660,0.715
,(2.1117)+(-0.0038)Gly+(0.0021)Gln+(-0.0525)Tyr+(-0.0083)Leu;0.620,0.
661,0.641,0.612,0.672,0.680,0.622,0.647,(0.1303)+(-0.0915)Cit+(-0.004
7)Pro+(0.0279)Ile+(-0.0004)Phe;0.620,0.678,0.565,0.522,0.535,0.664,0.
667,0.597,(-3.9481)+(0.0360)Ser+(-0.0297)Thr+(0.0023)Orn+(0.0267)Ile;
0.619,0.660,0.701,0.721,0.718,0.738,0.586,0.691,(1.2782)+(0.0014)Gln+
(-0.0824)Cit+(0.0023)Pro+(-0.0135)Leu;0.619,0.669,0.696,0.710,0.701,0
.719,0.628,0.690,(0.5702)+(0.0215)Orn+(-0.0211)Lys+(-0.0141)Leu+(0.03
58)Phe;0.619,0.675,0.737,0.800,0.717,0.750,0.605,0.718,(3.4412)+(-0.0
017)Gly+(-0.0168)Arg+(-0.0418)Tyr+(-0.0059)Leu;0.619,0.663,0.702,0.70
5,0.719,0.713,0.651,0.697,(0.7216)+(0.0019)Gln+(-0.0083)Thr+(-0.0848)
Cit+(0.0004)Pro;0.619,0.676,0.679,0.752,0.635,0.698,0.567,0.663,(2.21
08)+(-0.0018)Thr+(0.0067)Pro+
(-0.0540)Tyr+(-0.0105)Leu;0.619,0.677,0.645,0.670,0.608,0.706,0.610,0
.649,(-2.8197)+(0.0315)Ser+(-0.0223)Thr+(-0.0186)Leu+(0.0400)Phe;0.61
8,0.664,0.673,0.680,0.716,0.714,0.536,0.662,(1.4201)+(0.0016)Gly+(-0.
0739)Cit+(-0.0143)Arg+(0.0009)Pro;0.618,0.670,0.610,0.643,0.569,0.682
,0.558,0.613,(-2.1379)+(0.0190)Ser+(0.0026)Pro+(-0.0204)Val+(0.0386)P
he;0.618,0.660,0.707,0.730,0.724,0.742,0.586,0.696,(1.2997)+(0.0000)G
ly+(0.0016)Gln+(-0.0823)Cit+(-0.0120)Leu;0.618,0.670,0.731,0.782,0.70
0,0.747,0.647,0.719,(3.3492)+(-0.0020)Gly+(-0.0411)Tyr+(-0.0104)Lys+(

-0.0010)Leu;0.617,0.664,0.672,0.703,0.617,0.693,0.690,0.676,(0.2087)+(0.0024)Pro+(-0.0316)Val+(0.0246)Leu+(0.0271)Phe;0.617,0.667,0.788,0.826,0.715,0.854,0.794,0.797,(1.4680)+(-0.0019)Gly+(0.0012)Gln+(-0.0089)Ala+(-0.0048)Leu;0.617,0.665,0.734,0.789,0.707,0.778,0.611,0.721,(1.9882)+(0.0018)Gln+(-0.0248)Arg+(0.0057)Pro+(-0.0158)Val;0.617,0.671,0.694,0.688,0.701,0.724,0.676,0.697,(0.7653)+(-0.0052)Thr+(0.0215)Orn+(-0.0234)Lys+(0.0226)Phe;0.617,0.664,0.745,0.790,0.737,0.778,0.618,0.731,(1.6074)+(0.0029)Gln+(-0.0205)Arg+(-0.0125)Lys+(-0.0071)Leu;0.617,0.669,0.698,0.732,0.655,0.705,0.691,0.696,(0.1630)+(-0.0028)Gly+(-0.0213)Val+(0.0214)Orn+(0.0341)Phe;0.617,0.663,0.707,0.745,0.731,0.720,0.544,0.685,(0.5324)+(-0.0309)Arg+(0.0212)Orn+(-0.0251)Leu+(0.0374)Phe;0.616,0.672,0.786,0.829,0.706,0.856,0.789,0.795,(1.3245)+(0.0012)Gln+(-0.0038)Thr+(-0.0086)Ala+(-0.0038)Leu;0.616,0.665,0.729,0.757,0.664,0.757,0.768,0.737,(1.8379)+(-0.0018)Gly+(-0.0030)Thr+(-0.0309)Val+(0.0320)Leu;0.615,0.666,0.706,0.740,0.643,0.715,0.742,0.710,(0.5445)+(-0.0055)Thr+(-0.0301)Val+(0.0249)Leu+(0.0315)Phe;0.615,0.666,0.686,0.697,0.725,0.724,0.551,0.674,(1.6150)+(0.0018)Gly+(-0.0028)Thr+(-0.0735)Cit+(-0.0121)Arg;0.615,0.665,0.657,0.728,0.601,0.666,0.577,0.643,(1.4222)+(0.0007)Gln+(-0.0030)Thr+(0.0049)Pro+(-0.0601)Tyr;0.615,0.657,0.719,0.741,0.726,0.741,0.630,0.710,(2.2930)+(-0.0003)Gly+(-0.0166)Arg+(0.0021)Pro+(-0.0146)Lys;0.615,0.667,0.785,0.820,0.716,0.856,0.789,0.795,(1.9565)+(-0.0012)Gly+(-0.0016)Thr+(-0.0085)Ala+(-0.0037)Leu;0.614,0.659,0.712,0.735,0.722,0.742,0.606,0.701,(2.2086)+(0.0025)Thr+(-0.0179)Arg+(0.0018)Pro+(-0.0153)Lys;0.614,0.657,0.658,0.658,0.683,0.687,0.584,0.653,(0.2631)+(0.0026)Gly+(-0.0087)Thr+(-0.0876)Cit+(0.0208)Phe;0.614,0.663,0.600,0.621,0.583,0.728,0.492,0.606,(0.3855)+(0.0236)Ser+(-0.0036)Gln+(0.0054)Pro+(-0.0160)Val;0.613,0.660,0.687,0.700,0.722,0.717,0.559,0.675,(0.7707)+(0.0009)Gly+(0.0021)Gln+(-0.0753)Cit+

(-0.0168)Arg;0.613,0.669,0.632,0.612,0.597,0.679,0.725,0.653,(-2.3287)+(0.0421)Ser+(-0.0072)Gly+(-0.0242)Thr+(0.0020)Pro;0.613,0.654,0.719,0.744,0.728,0.745,0.617,0.708,(2.3867)+(-0.0007)Gly+(0.0037)Thr+(-0.0176)Arg+(-0.0150)Lys;0.612,0.677,0.638,0.613,0.603,0.698,0.733,0.661,(-2.4536)+(0.0416)Ser+(-0.0072)Gly+(-0.0254)Thr+(0.0108)Orn;0.612,0.660,0.729,0.772,0.711,0.781,0.617,0.720,(3.0219)+(-0.0182)Arg+(0.0062)Pro+(-0.0134)Val+(-0.0061)Lys;0.612,0.658,0.693,0.706,0.724,0.715,0.579,0.681,(0.8183)+(0.0022)Gln+(-0.0743)Cit+(-0.0169)Arg+(0.0001)Pro;0.611,0.664,0.713,0.743,0.652,0.758,0.726,0.720,(1.7236)+(-0.0004)Gln+(-0.0037)Thr+(-0.0309)Val+(0.0325)Leu;0.611,0.670,0.715,0.788,0.671,0.705,0.620,0.696,(2.7425)+(-0.0032)Gly+(0.0029)Thr+(-0.0517)Tyr+(-0.0074)Leu;0.610,0.660,0.697,0.728,0.636,0.732,0.716,0.703,(1.4867)+(-0.0057)Thr+(0.0042)Pro+(-0.0309)Val+(0.0296)Leu;0.610,0.663,0.710,0.726,0.732,0.725,0.614,0.699,(0.8697)+(0.0027)Gln+(-0.0045)Thr+(-0.0742)Cit+(-0.0146)Arg;0.610,0.663,0.704,0.778,0.644,0.684,0.648,0.688,(1.7816)+(-0.0035)Gly+(0.0016)Gln+(0.0004)Thr+(-0.0589)Tyr;0.610,0.661,0.742,0.795,0.733,0.803,0.580,0.728,(3.0825)+(0.0063)Thr+(-0.0194)Arg+(-0.0114)Val+(-0.0076)Lys;0.610,0.659,0.688,0.687,0.701,0.693,0.657,0.685,(0.1427)+(0.0017)Gln+(-0.0090)Thr+(-0.0864)Cit+(0.0156)Phe;0.610,0.660,0.776,0.832,0.744,0.803,0.672,0.763,(2.1212)+(-0.0021)Gly+(0.0028)Gln+(-0.0239)Arg+(-0.0138)Val;0.609,0.666,0.733,0.764,0.694,0.770,0.705,0.733,(1.6856)+(-0.0024)Gly+(-0.0081)Thr+(-0.0169)Val+(0.0286)Orn;0.609,0.657,0.651,0.653,0.699,0.684,0.521,0.639,(0.4597)+(0.0022)Gly+(-0.0768)Cit+(-0.0159)Arg+(0.0203)Phe;0.609,0.661,0.710,0.711,0.714,0.746,0.677,0.712,(1.7027)+(-0.0015)Gly+(-0.0043)Thr+(0.0245)Orn+(-0.0211)Lys;0.609,0.668,0.705,0.788,0.654,0.718,0.581,0.685,(1.7153)+(0.0013)Gln+(-0.0014)Thr+(-0.0492)Tyr+(-0.0076)Leu;0.609,0.658,0.718,0.755,0.734,0.764,0.556,0.702,(1.7441)+(-0.0051)Thr+(-0.0260)Arg+(0.02

61)Orn+(-0.0174)Leu;0.608,0.662,0.715,0.748,0.681,0.762,0.662,0.713,(1.7527)+(-0.0030)Gly+(-0.0009)Gln+(-0.0179)Val+(0.0258)Orn;0.608,0.661,0.682,0.677,0.692,0.714,0.649,0.683,(0.6531)+(-0.0010)Pro+(0.0198)Orn+(-0.0250)Lys+(0.0233)Phe;0.608,0.664,0.700,0.702,0.706,0.745,0.648,0.700,(1.4716)+(-0.0053)Thr+(0.0005)Pro+(0.0238)Orn+(-0.0210)Lys;0.608,0.662,0.694,0.698,0.729,0.715,0.593,0.684,(1.7540)+(-0.0024)Thr+(-0.0712)Cit+(-0.0124)Arg+(0.0010)Pro;0.608,0.658,0.687,0.676,0.697,0.711,0.678,0.691,(0.8926)+(-0.0014)Gly+(0.0202)Orn+(-0.0249)Lys+(0.0214)Phe;0.608,0.666,0.717,0.733,0.718,0.763,0.636,0.713,(1.7081)+(-0.0054)Thr+(0.0263)Orn+(-0.0177)Lys+(-0.0080)Leu;0.608,0.656,0.640,0.649,0.615,0.668,0.649,0.645,(-2.1934)+(0.0299)Ser+(-0.0084)Gly+(-0.0230)Leu+(0.0269)Phe;0.608,0.648,0.657,0.659,0.690,0.691,0.560,0.650,(0.5551)+(0.0009)Gly+(0.0007)Gln+(-0.0889)Cit+(-0.0005)Pro;0.608,0.652,0.730,0.778,0.708,0.763,0.625,0.719,(2.8430)+(-0.0010)Gly+(-0.0216)Arg+(0.0061)Pro+(-0.0155)Val;0.607,0.667,0.664,0.704,0.624,0.692,0.622,0.660,(-0.3896)+(0.0020)Pro+(-0.0217)Val+(0.0181)Orn+(0.0339)Phe;0.607,0.663,0.756,0.818,0.733,0.802,0.607,0.740,(1.9426)+(0.0022)Gln+(0.0017)Thr+(-0.0249)Arg+(-0.0138)Val;0.607,0.667,0.717,0.751,0.685,0.772,0.651,0.715,(1.5641)+(-0.0006)Gln+(-0.0089)Thr+(-0.0166)Val+(0.0285)Orn;0.607,0.660,0.703,0.737,0.659,0.744,0.673,0.704,(1.3204)+(-0.0034)Gly+(0.0034)Pro+(-0.0192)Val+(0.0226)Orn;0.607,0.661,0.770,0.815,0.729,0.806,0.713,0.766,(2.1797)+(-0.0024)Gly+(0.0020)Gln+(-0.0109)Val+(-0.0122)Lys;0.606,0.660,0.721,0.773,0.702,0.767,0.589,0.708,(2.6260)+(0.0017)Thr+(-0.0232)Arg+(0.0060)Pro+(-0.0157)Val;0.606,0.664,0.708,0.714,0.707,0.750,0.661,0.708,(1.1863)+(0.0009)Gln+(-0.0058)Thr+(0.0233)Orn+(-0.0214)Lys;0.606,0.652,0.676,0.679,0.679,0.686,0.654,0.675,(0.2225)+(-0.0053)Thr+(-0.0267)Arg+(-0.0030)Pro+(0.0248)Ile;0.606,0.655,0.758,0.806,0.739,0.794,0.645,0.746,(3.3016)+(-0.0010)Gly+(-0.0162)Arg+(-

0.0110)Val+(-0.0058)Lys;0.606,0.656,0.716,0.727,0.718,0.759,0.650,0.7
14,(1.9234)+(-0.0022)Gly+(0.0252)Orn+(-0.0192)Lys+(-0.0085)Leu;0.605,
0.654,0.732,0.769,0.698,0.772,0.675,0.729,(2.6823)+(-0.0016)Gly+(0.00
53)Pro+(-0.0129)Val+(-0.0111)Lys;0.605,0.650,0.724,0.763,0.731,0.761,
0.579,0.708,(2.5259)+(0.0036)Thr+(-0.0186)Arg+(-0.0120)Lys+(-0.0066)L
eu;0.605,0.654,0.676,0.682,0.711,0.689,0.576,0.665,(0.2097)+(0.0019)G
ln+(-0.0756)Cit+(-0.0178)Arg+(0.0156)Phe;0.605,0.664,0.564,0.542,0.55
4,0.658,0.579,0.583,(-2.5016)+(0.0374)Ser+(-0.0033)Gln+(-0.0232)Thr+(
0.0218)Phe;0.605,0.647,0.737,0.774,0.737,0.759,0.622,0.723,(2.6912)+(
-0.0006)Gly+(-0.0166)Arg+(-0.0109)Lys+(-0.0066)Leu;0.605,0.661,0.667,
0.700,0.640,0.742,0.581,0.666,(1.5037)+(-0.0018)Gln+(0.0038)Pro+(-0.0
189)Val+(0.0234)Orn;0.605,0.664,0.702,0.735,0.661,0.758,0.659,0.703,(
1.2604)+(-0.0107)Thr+(0.0044)Pro+(-0.0179)Val+(0.0261)Orn;0.604,0.653
,0.713,0.758,0.731,0.762,0.523,0.693,(1.2351)+(0.0010)Gln+(-0.0299)Ar
g+(0.0220)Orn+(-0.0183)Leu;0.604,0.662,0.678,0.672,0.688,0.713,0.649,
0.681,(0.5728)+(0.0002)Gln+(0.0190)Orn+(-0.0252)Lys+(0.0222)Phe;0.603
,0.656,0.726,0.767,0.692,0.785,0.646,0.723,(2.0177)+(0.0010)Gln+(0.00
50)Pro+(-0.0127)Val+(-0.0125)Lys;0.602,0.660,0.636,0.631,0.622,0.709,
0.629,0.648,(-0.4165)+(0.0335)Ser+(-0.0080)Gly+(-0.0027)Gln+(-0.0153)
Leu;0.602,0.652,0.750,0.805,0.735,0.787,0.613,0.735,(2.9518)+(-0.0015
)Gly+(0.0044)Thr+(-0.0224)Arg+(-0.0137)Val;0.602,0.655,0.674,0.669,0.
698,0.679,0.634,0.670,(0.7035)+(-0.0070)Thr+(-0.0833)Cit+(-0.0003)Pro
+(0.0177)Phe;0.602,0.653,0.670,0.670,0.712,0.684,0.571,0.659,(0.8843)
+(-0.0733)Cit+(-0.0150)Arg+(-0.0005)Pro+(0.0186)Phe;0.602,0.650,0.720
,0.757,0.739,0.755,0.559,0.703,(1.8762)+(-0.0016)Gly+(-0.0279)Arg+(0.
0243)Orn+(-0.0184)Leu;0.602,0.659,0.751,0.801,0.715,0.810,0.653,0.745
,(1.9745)+(0.0015)Gln+(-0.0001)Thr+(-0.0107)Val+(-0.0123)Lys;0.601,0.
648,0.679,0.685,0.678,0.687,0.658,0.677,(-0.2566)+(0.0012)Gln+(-0.007

3)Thr+(-0.0282)Arg+(0.0205)Ile;0.601,0.651,0.699,0.738,0.719,0.751,0.514,0.680,(1.5459)+(-0.0291)Arg+(0.0024)Pro+(0.0222)Orn+(-0.0194)Leu;0.601,0.638,0.635,0.630,0.673,0.663,0.548,0.628,(0.0324)+(0.0016)Gly+(-0.0910)Cit+(-0.0013)Pro+(0.0163)Phe;0.601,0.640,0.632,0.625,0.672,0.666,0.547,0.627,(-0.0589)+(0.0015)Gly+(0.0001)Gln+(-0.0917)Cit+(0.0140)Phe;0.601,0.651,0.657,0.656,0.679,0.690,0.593,0.654,(-0.1052)+(-0.0314)Arg+(-0.0039)Pro+(0.0081)Orn+(0.0217)Ile;0.600,0.653,0.699,0.697,0.706,0.737,0.661,0.700,(1.6461)+(-0.0018)Gly+(-0.0001)Pro+(0.0228)Orn+(-0.0225)Lys;0.600,0.662,0.617,0.656,0.582,0.731,0.509,0.619,(-0.8575)+(0.0162)Ser+(0.0034)Pro+(-0.0181)Val+(0.0129)Orn;0.600,0.647,0.721,0.758,0.722,0.756,0.594,0.708,(2.4988)+(-0.0181)Arg+(0.0037)Pro+(-0.0110)Lys+(-0.0091)Leu;0.599,0.656,0.678,0.679,0.713,0.687,0.596,0.669,(0.9738)+(-0.0032)Thr+(-0.0729)Cit+(-0.0131)Arg+(0.0193)Phe;0.599,0.653,0.754,0.796,0.723,0.799,0.673,0.748,(2.8055)+(-0.0019)Gly+(0.0025)Thr+(-0.0110)Val+(-0.0113)Lys;0.599,0.654,0.721,0.760,0.691,0.778,0.639,0.717,(2.4226)+(-0.0007)Thr+(0.0054)Pro+(-0.0127)Val+(-0.0113)Lys;0.599,0.647,0.717,0.740,0.709,0.716,0.676,0.710,(0.9885)+(-0.0009)Gly+(-0.0179)Lys+(-0.0125)Leu+(0.0390)Phe;0.598,0.649,0.661,0.663,0.668,0.680,0.626,0.659,(0.0222)+(0.0009)Gly+(-0.0067)Thr+(-0.0272)Arg+(0.0217)Ile;0.598,0.664,0.574,0.544,0.574,0.696,0.564,0.595,(-1.7721)+(0.0354)Ser+(-0.0032)Gln+(-0.0235)Thr+(0.0140)Orn;0.598,0.649,0.724,0.780,0.729,0.715,0.575,0.700,(0.2099)+(0.0016)Gln+(-0.0292)Arg+(-0.0222)Leu+(0.0392)Phe;0.598,0.659,0.672,0.667,0.688,0.693,0.637,0.671,(0.0537)+(-0.0081)Thr+(-0.0276)Arg+(0.0106)Orn+(0.0179)Ile;0.598,0.647,0.644,0.650,0.615,0.701,0.647,0.653,(-1.2862)+(0.0300)Ser+(-0.0088)Gly+(0.0016)Pro+(-0.0185)Leu;0.598,0.645,0.654,0.657,0.670,0.679,0.595,0.650,(-0.0520)+(0.0004)Gly+(-0.0303)Arg+(-0.0036)Pro+(0.0243)Ile;0.598,0.656,0.479,0.390,0.498,0.581,0.598,0.517,(-2.3502)+(0.0364)Ser+(-

0.0065)Gly+(-0.0052)Gln+(0.01
69)Ile;0.597,0.645,0.665,0.670,0.677,0.686,0.612,0.661,(-0.3024)+(0.0009)Gln+(-0.0315)Arg+(-0.0038)Pro+(0.0237)Ile;0.597,0.653,0.724,0.769,0.671,0.703,0.728,0.718,(0.5601)+(-0.0011)Gly+(-0.0054)Thr+(-0.0181)Val+(0.0407)Phe;0.597,0.655,0.693,0.709,0.701,0.751,0.594,0.689,(1.5224)+(0.0013)Pro+(0.0231)Orn+(-0.0197)Lys+(-0.0087)Leu;0.597,0.669,0.650,0.671,0.619,0.761,0.579,0.657,(-1.6884)+(0.0290)Ser+(-0.0228)Thr+(0.0169)Orn+(-0.0131)Leu;0.596,0.655,0.705,0.706,0.705,0.744,0.676,0.708,(1.3535)+(-0.0021)Gly+(0.0009)Gln+(0.0218)Orn+(-0.0232)Lys;0.596,0.654,0.688,0.694,0.693,0.741,0.624,0.688,(1.1902)+(0.0005)Gln+(-0.0001)Pro+(0.0212)Orn+(-0.0230)Lys;0.596,0.655,0.700,0.720,0.703,0.758,0.600,0.695,(1.3883)+(0.0005)Gln+(0.0232)Orn+(-0.0200)Lys+(-0.0078)Leu;0.595,0.645,0.721,0.772,0.729,0.703,0.580,0.696,(0.8126)+(-0.0003)Gly+(-0.0267)Arg+(-0.0217)Leu+(0.0408)Phe;0.595,0.640,0.650,0.646,0.683,0.664,0.581,0.644,(0.1034)+(0.0006)Gln+(-0.0894)Cit+(-0.0015)Pro+(0.0141)Phe;0.595,0.656,0.629,0.646,0.607,0.738,0.553,0.636,(-0.9271)+(0.0320)Ser+(-0.0019)Gln+(-0.0183)Thr+(-0.0094)Leu;0.595,0.651,0.716,0.741,0.706,0.719,0.667,0.709,(0.8665)+(-0.0020)Thr+(-0.0173)Lys+(-0.0124)Leu+(0.0397)Phe;0.595,0.646,0.701,0.704,0.700,0.705,0.692,0.700,(0.9806)+(-0.0007)Gly+(0.0001)Pro+(-0.0219)Lys+(0.0266)Phe;0.594,0.650,0.704,0.746,0.662,0.689,0.693,0.698,(0.6144)+(-0.0015)Gly+(-0.0007)Gln+(-0.0189)Val+(0.0401)Phe;0.594,0.655,0.653,0.657,0.625,0.723,0.648,0.663,(-1.3228)+(0.0292)Ser+(-0.0088)Gly+(0.0068)Orn+(-0.0187)Leu;0.594,0.654,0.714,0.760,0.664,0.705,0.703,0.708,(0.4810)+(-0.0003)Gln+(-0.0057)Thr+(-0.0181)Val+(0.0420)Phe;0.594,0.647,0.705,0.709,0.703,0.708,0.697,0.705,(1.0000)+(-0.0006)Gly+(-0.0016)Thr+(-0.0212)Lys+(0.0272)Phe;0.593,0.648,0.704,0.727,0.697,0.710,0.651,0.696,(0.7818)+(0.0018)Pro+(-0.0183)Lys+(-0.0134)Leu+(0.0383)Phe;0.593,0.651,0.694,0.739,0.

643,0.679,0.695,0.689,(0.4038)+(-0.0020)Gly+(0.0032)Pro+(-0.0200)Val+(0.0353)Phe;0.593,0.650,0.713,0.741,0.702,0.721,0.658,0.706,(0.4831)+(0.0009)Gln+(-0.0190)Lys+(-0.0124)Leu+(0.0381)Phe;0.593,0.653,0.712,0.720,0.703,0.720,0.702,0.711,(0.5009)+(0.0012)Gln+(-0.0031)Thr+(-0.0218)Lys+(0.0263)Phe;0.593,0.645,0.722,0.774,0.728,0.704,0.585,0.698,(0.7975)+(-0.0014)Thr+(-0.0260)Arg+(-0.0214)Leu+(0.0413)Phe;0.593,0.649,0.711,0.717,0.704,0.714,0.705,0.710,(0.6331)+(-0.0012)Gly+(0.0013)Gln+(-0.0228)Lys+(0.0250)Phe;0.593,0.651,0.565,0.544,0.559,0.667,0.561,0.583,(-1.7586)+(0.0360)Ser+(-0.0029)Gln+(-0.0226)Thr+(0.0029)Pro;0.592,0.649,0.702,0.706,0.699,0.710,0.690,0.701,(0.8994)+(-0.0022)Thr+(0.0004)Pro+(-0.0213)Lys+(0.0271)Phe;0.592,0.649,0.701,0.708,0.696,0.714,0.685,0.701,(0.5101)+(0.0010)Gln+(-0.0001)Pro+(-0.0228)Lys+(0.0261)Phe;0.591,0.645,0.729,0.748,0.715,0.750,0.694,0.727,(1.3523)+(-0.0017)Gly+(0.0017)Gln+(0.0010)Pro+(-0.0202)Lys;0.591,0.647,0.742,0.763,0.726,0.762,0.708,0.740,(1.3667)+(-0.0017)Gly+(0.0020)Gln+(-0.0021)Thr+(-0.0192)Lys;0.591,0.646,0.707,0.757,0.716,0.698,0.564,0.684,(0.7312)+(-0.0276)Arg+(0.0027)Pro+(-0.0232)Leu+(0.0392)Phe;0.590,0.649,0.669,0.713,0.625,0.673,0.638,0.662,(0.5329)+(-0.0013)Gln+(0.0035)Pro+(-0.0200)Val+(0.0385)Phe;0.589,0.639,0.638,0.635,0.667,0.670,0.566,0.634,(-0.2396)+(0.0002)Gly+(-0.0321)Arg+(0.0065)Orn+(0.0172)Ile;0.588,0.643,0.543,0.488,0.525,0.620,0.672,0.576,(-3.6747)+(0.0304)Ser+(-0.0078)Gly+(-0.0055)Pro+(0.0172)Ile;0.588,0.652,0.576,0.566,0.544,0.663,0.609,0.595,(-3.4206)+(0.0341)Ser+(-0.0266)Thr+(0.0014)Pro+(0.0150)Phe;0.588,0.645,0.698,0.714,0.719,0.725,0.593,0.688,(0.6300)+(-0.0071)Thr+(-0.0267)Arg+(-0.0004)Pro+(0.0171)Orn;0.588,0.649,0.697,0.746,0.640,0.685,0.696,0.692,(0.4073)+(-0.0074)Thr+(0.0040)Pro+(-0.0191)Val+(0.0377)Phe;0.588,0.645,0.703,0.722,0.717,0.728,0.606,0.693,(0.2492)+(0.0011)Gln+(-0.0081)Thr+(-0.0277)Arg+(0.0158)Orn;0.588,0.648,0.669,0.669,0.6

75,0.679,0.647,0.667,(0.2431)+(-0.0062)Thr+(-0.0267)Arg+(0.0216)Ile+(-0.0022)Phe;0.587,0.644,0.660,0.662,0.674,0.679,0.609,0.656,(0.0990)+(-0.0298)Arg+(-0.0035)Pro+(0.0246)Ile+(-0.0021)Phe;0.587,0.645,0.698,0.712,0.718,0.724,0.598,0.688,(0.6353)+(-0.0002)Gly+(-0.0072)Thr+(-0.0267)Arg+(0.0169)Orn;0.587,0.648,0.728,0.750,0.711,0.757,0.682,0.725,(1.1999)+(0.0016)Gln+(-0.0034)Thr+(0.0015)Pro+(-0.0192)Lys;0.587,0.635,0.647,0.649,0.667,0.670,0.584,0.642,(-0.3347)+(0.0002)Gly+(0.0006)Gln+(-0.0319)Arg+(0.0190)Ile;0.587,0.641,0.719,0.734,0.711,0.743,0.678,0.716,(1.8969)+(-0.0010)Gly+(-0.0014)Thr+(0.0016)Pro+(-0.0184)Lys;0.587,0.650,0.443,0.369,0.470,0.595,0.471,0.476,(-2.5552)+(0.0293)Ser+(-0.0057)Gln+(-0.0046)Pro+(0.0256)Ile;0.586,0.640,0.643,0.642,0.670,0.669,0.573,0.638,(-0.3258)+(0.0003)Gln+(-0.0325)Arg+(0.0062)Orn+(0.0170)Ile;0.585,0.644,0.747,0.779,0.728,0.767,0.686,0.740,(1.5596)+(-0.0021)Gly+(0.0020)Gln+(-0.0173)Lys+(-0.0061)Leu;0.585,0.660,0.581,0.567,0.550,0.678,0.612,0.602,(-3.4538)+(0.0335)Ser+(-0.0274)Thr+(0.0080)Orn+(0.0138)Phe;0.585,0.643,0.692,0.706,0.714,0.708,0.601,0.682,(0.3043)+(-0.0075)Thr+(-0.0272)Arg+(0.0156)Orn+(0.0076)Phe;0.584,0.646,0.541,0.492,0.546,0.626,0.598,0.566,(-1.5562)+(0.0353)Ser+(-0.0072)Gly+(-0.0041)Gln+(-0.0012)Pro;0.584,0.637,0.714,0.762,0.660,0.737,0.682,0.710,(1.7245)+(-0.0024)Gly+(-0.0000)Gln+(0.0048)Pro+(-0.0170)Val;0.584,0.648,0.741,0.778,0.721,0.774,0.659,0.733,(1.3717)+(0.0017)Gln+(-0.0027)Thr+(-0.0166)Lys+(-0.0056)Leu;0.584,0.644,0.416,0.334,0.451,0.577,0.446,0.452,(-2.4022)+(0.0290)Ser+(-0.0058)Gln+(0.0219)Ile+(-0.0070)Phe;0.582,0.635,0.735,0.764,0.725,0.758,0.661,0.727,(2.1856)+(-0.0013)Gly+(-0.0003)Thr+(-0.0157)Lys+(-0.0056)Leu;0.581,0.632,0.680,0.698,0.711,0.704,0.552,0.666,(0.5212)+(-0.0007)Gly+(-0.0299)Arg+(-0.0012)Pro+(0.0140)Orn;0.581,0.636,0.723,0.749,0.711,0.751,0.656,0.717,(2.0892)+(-0.0013)Gly+(0.0026)Pro+(-0.0161)Lys+(-0.0075)Leu;0.581,0.634,0.742,

0.804,0.736,0.758,0.580,0.720,(1.1895)+(0.0023)Gln+(-0.0026)Thr+(-0.0259)Arg+(-0.0142)Leu;0.581,0.637,0.643,0.642,0.664,0.669,0.582,0.639,(-0.0296)+(0.0004)Gly+(-0.0308)Arg+(0.0205)Ile+(-0.0035)Phe;0.580,0.633,0.650,0.650,0.669,0.675,0.593,0.647,(-0.1906)+(0.0007)Gln+(-0.0316)Arg+(0.0201)Ile+(-0.0044)Phe;0.580,0.635,0.719,0.766,0.669,0.732,0.692,0.715,(1.9192)+(-0.0017)Gly+(-0.0054)Thr+(0.0054)Pro+(-0.0161)Val;0.580,0.630,0.751,0.807,0.744,0.761,0.608,0.730,(1.3588)+(-0.0018)Gly+(0.0025)Gln+(-0.0269)Arg+(-0.0151)Leu;0.580,0.643,0.628,0.652,0.593,0.727,0.567,0.635,(-1.6240)+(0.0306)Ser+(-0.0221)Thr+(0.0047)Pro+(-0.0134)Leu;0.579,0.638,0.641,0.636,0.669,0.677,0.572,0.638,(-0.0406)+(-0.0316)Arg+(0.0070)Orn+(0.0184)Ile+(-0.0052)Phe;0.579,0.643,0.545,0.555,0.559,0.631,0.427,0.543,(-1.7357)+(0.0257)Ser+(-0.0042)Gln+(-0.0217)Leu+(0.0364)Phe;0.579,0.641,0.720,0.755,0.703,0.760,0.632,0.712,(1.3648)+(0.0013)Gln+(0.0023)Pro+(-0.0176)Lys+(-0.0072)Leu;0.579,0.638,0.718,0.747,0.707,0.752,0.640,0.711,(1.9274)+(-0.0025)Thr+(0.0030)Pro+(-0.0155)Lys+(-0.0073)Leu;0.579,0.632,0.676,0.698,0.705,0.707,0.533,0.661,(0.2147)+(0.0006)Gln+(-0.0310)Arg+(-0.0012)Pro+(0.0130)Orn;0.578,0.640,0.520,0.461,0.531,0.603,0.592,0.547,(-1.7723)+(0.0355)Ser+(-0.0071)Gly+(-0.0044)Gln+(0.0030)Phe;0.578,0.638,0.759,0.814,0.702,0.771,0.722,0.752,(1.7140)+(-0.0021)Gly+(0.0009)Gln+(-0.0044)Thr+(-0.0144)Val;0.578,0.632,0.719,0.778,0.719,0.748,0.542,0.697,(1.1857)+(0.0019)Gln+(-0.0278)Arg+(0.0033)Pro+(-0.0168)Leu;0.577,0.652,0.581,0.566,0.556,0.684,0.600,0.601,(-2.9061)+(0.0327)Ser+(-0.0268)Thr+(0.0015)Pro+(0.0093)Orn;0.577,0.636,0.517,0.448,0.501,0.621,0.655,0.556,(-3.1934)+(0.0302)Ser+(-0.0082)Gly+(0.0152)Ile+(-0.0168)Phe;0.575,0.634,0.709,0.761,0.657,0.736,0.662,0.704,(1.5696)+(0.0002)Gln+(-0.0068)Thr+(0.0055)Pro+(-0.0160)Val;0.575,0.628,0.676,0.694,0.705,0.694,0.557,0.663,(0.2254)+(-0.0008)Gly+(0.0007)Gln+(-0.0311)Arg+(0.0121)Orn;0.575,0.627,

0.717,0.752,0.719,0.710,0.630,0.702,(0.4032)+(-0.0006)Gly+(0.0018)Gln+(-0.0052)Thr+(-0.0268)Arg;0.575,0.623,0.698,0.729,0.711,0.693,0.590,0.681,(0.3646)+(-0.0008)Gly+(0.0014)Gln+(-0.0293)Arg+(-0.0003)Pro;0.574,0.627,0.710,0.745,0.713,0.708,0.613,0.695,(0.3481)+(0.0016)Gln+(-0.0055)Thr+(-0.0268)Arg+(0.0004)Pro;0.574,0.624,0.717,0.769,0.721,0.733,0.562,0.696,(2.0214)+(-0.0009)Gly+(-0.0246)Arg+(0.0037)Pro+(-0.0162)Leu;0.573,0.642,0.524,0.466,0.535,0.611,0.591,0.551,(-1.6633)+(0.0353)Ser+(-0.0071)Gly+(-0.0043)Gln+(0.0014)Orn;0.571,0.627,0.736,0.789,0.740,0.749,0.577,0.714,(2.1275)+(-0.0009)Gly+(-0.0001)Thr+(-0.0234)Arg+(-0.0136)Leu;0.571,0.622,0.697,0.727,0.709,0.697,0.595,0.682,(0.9372)+(-0.0000)Gly+(-0.0040)Thr+(-0.0250)Arg+(0.0007)Pro;0.570,0.626,0.713,0.766,0.715,0.733,0.555,0.692,(1.9333)+(-0.0020)Thr+(-0.0238)Arg+(0.0039)Pro+(-0.0158)Leu;0.570,0.627,0.667,0.683,0.699,0.685,0.544,0.653,(0.1781)+(-0.0005)Gly+(-0.0308)Arg+(0.0120)Orn+(0.0057)Phe;0.570,0.629,0.569,0.533,0.552,0.635,0.652,0.593,(-2.7864)+(0.0304)Ser+(-0.0083)Gly+(-0.0024)Pro+(-0.0030)Phe;0.570,0.639,0.416,0.339,0.445,0.564,0.455,0.451,(-2.5983)+(0.0296)Ser+(-0.0058)Gln+(-0.0052)Orn+(0.0214)Ile;0.569,0.630,0.670,0.688,0.702,0.696,0.538,0.656,(0.1159)+(-0.0309)Arg+(-0.0015)Pro+(0.0127)Orn+(0.0079)Phe;0.568,0.643,0.555,0.564,0.576,0.706,0.376,0.556,(-0.7421)+(0.0235)Ser+(-0.0039)Gln+(0.0103)Orn+(-0.0159)Leu;0.568,0.624,0.690,0.717,0.703,0.682,0.597,0.675,(0.3745)+(0.0003)Gly+(-0.0048)Thr+(-0.0261)Arg+(0.0131)Phe;0.567,0.628,0.702,0.734,0.706,0.691,0.619,0.688,(-0.0452)+(0.0015)Gln+(-0.0059)Thr+(-0.0275)Arg+(0.0113)Phe;0.567,0.633,0.706,0.743,0.687,0.694,0.658,0.695,(-0.2723)+(-0.0138)Thr+(0.0193)Orn+(-0.0235)Leu+(0.0307)Phe;0.565,0.620,0.682,0.710,0.700,0.674,0.577,0.665,(-0.0102)+(-0.0005)Gly+(0.0011)Gln+(-0.0302)Arg+(0.0090)Phe;0.565,0.626,0.664,0.683,0.695,0.688,0.532,0.650,(-0.0427)+(0.0004)Gln+(-0.0316)Arg+(0.0112)Orn+(0.0059)Phe;0.5

65,0.621,0.682,0.712,0.700,0.680,0.565,0.664,(-0.0698)+(0.0010)Gln+(-0.0303)Arg+(-0.0008)Pro+(0.0107)Phe;0.563,0.624,0.693,0.720,0.705,0.682,0.606,0.678,(0.4219)+(-0.0046)Thr+(-0.0260)Arg+(-0.0000)Pro+(0.0129)Phe;0.563,0.620,0.677,0.704,0.699,0.673,0.561,0.659,(0.3028)+(-0.0001)Gly+(-0.0287)Arg+(-0.0006)Pro+(0.0117)Phe;0.563,0.628,0.547,0.555,0.565,0.680,0.390,0.547,(-0.7693)+(0.0244)Ser+(-0.0037)Gln+(0.0023)Pro+(-0.0157)Leu;0.560,0.624,0.556,0.596,0.543,0.620,0.434,0.548,(-2.8770)+(0.0192)Ser+(0.0007)Pro+(-0.0239)Leu+(0.0297)Phe;0.560,0.624,0.511,0.450,0.495,0.572,0.662,0.545,(-3.6808)+(0.0312)Ser+(-0.0079)Gly+(-0.0101)Orn+(0.0133)Ile;0.560,

0.625,0.725,0.756,0.704,0.741,0.675,0.719,(0.9081)+(-0.0017)Gly+(-0.0119)Thr+(0.0221)Orn+(-0.0183)Leu;0.559,0.624,0.567,0.532,0.548,0.629,0.651,0.590,(-2.8591)+(0.0307)Ser+(-0.0082)Gly+(-0.0024)Pro+(-0.0029)Orn;0.556,0.625,0.559,0.599,0.547,0.625,0.430,0.550,(-2.8863)+(0.0189)Ser+(0.0028)Orn+(-0.0240)Leu+(0.0295)Phe;0.552,0.626,0.713,0.748,0.692,0.745,0.637,0.706,(0.6835)+(-0.0001)Gln+(-0.0128)Thr+(0.0216)Orn+(-0.0178)Leu;0.552,0.627,0.450,0.410,0.478,0.587,0.400,0.469,(-2.1229)+(0.0276)Ser+(-0.0050)Gln+(-0.0013)Pro+(0.0088)Phe;0.547,0.620,0.700,0.734,0.680,0.732,0.633,0.695,(0.6207)+(-0.0138)Thr+(0.0027)Pro+(0.0207)Orn+(-0.0193)Leu;0.546,0.616,0.548,0.507,0.532,0.612,0.647,0.574,(-2.8349)+(0.0308)Ser+(-0.0083)Gly+(-0.0042)Orn+(-0.0043)Phe;0.546,0.621,0.466,0.425,0.451,0.626,0.493,0.499,(-3.7662)+(0.0204)Ser+(-0.0057)Pro+(0.0237)Ile+(-0.0130)Phe;0.543,0.630,0.462,0.422,0.492,0.614,0.395,0.481,(-1.7989)+(0.0269)Ser+(-0.0049)Gln+(-0.0010)Pro+(0.0027)Orn;0.543,0.604,0.721,0.767,0.692,0.669,0.695,0.706,(0.0722)+(-0.0008)Gly+(-0.0097)Thr+(-0.0213)Leu+(0.0336)Phe;0.540,0.618,0.646,0.626,0.613,0.656,0.762,0.664,(-0.6645)+(-0.0004)Gln+(-0.0142)Thr+(-0.0033)Pro+(0.0225)Ile;0.540,0.624,0.434,0.386,0.468,0.573,0.392,0.455,(-2.1464)+(

0.0276)Ser+(-0.0052)Gln+(0.0006)Orn+(0.0072)Phe;0.539,0.617,0.649,0.633,0.610,0.659,0.764,0.667,(-0.8527)+(0.0001)Gly+(-0.0149)Thr+(-0.0033)Pro+(0.0224)Ile;0.538,0.605,0.716,0.767,0.684,0.675,0.678,0.701,(-0.1506)+(0.0002)Gln+(-0.0105)Thr+(-0.0213)Leu+(0.0338)Phe;0.537,0.618,0.629,0.604,0.600,0.634,0.751,0.647,(-0.7057)+(0.0003)Gly+(-0.0006)Gln+(-0.0153)Thr+(0.0187)Ile;0.537,0.625,0.627,0.594,0.607,0.640,0.743,0.646,(-0.7019)+(-0.0008)Gln+(-0.0162)Thr+(0.0073)Orn+(0.0164)Ile;0.536,0.623,0.646,0.626,0.610,0.667,0.759,0.665,(-0.9469)+(-0.0160)Thr+(-0.0035)Pro+(0.0072)Orn+(0.0204)Ile;0.536,0.612,0.563,0.606,0.554,0.666,0.396,0.555,(-1.9348)+(0.0182)Ser+(0.0011)Pro+(0.0048)Orn+(-0.0187)Leu;0.535,0.626,0.635,0.607,0.607,0.648,0.756,0.654,(-1.0011)+(-0.0000)Gly+(-0.0170)Thr+(0.0065)Orn+(0.0161)Ile;0.534,0.615,0.643,0.623,0.607,0.653,0.763,0.661,(-0.5876)+(0.0000)Gly+(-0.0154)Thr+(0.0207)Ile+(-0.0092)Phe;0.534,0.615,0.639,0.617,0.609,0.647,0.757,0.657,(-0.4309)+(-0.0004)Gln+(-0.0148)Thr+(0.0209)Ile+(-0.0087)Phe;0.533,0.610,0.462,0.424,0.445,0.590,0.503,0.491,(-4.1008)+(0.0217)Ser+(-0.0055)Pro+(-0.0098)Orn+(0.0226)Ile;0.533,0.606,0.700,0.747,0.668,0.660,0.668,0.686,(-0.0685)+(-0.0113)Thr+(0.0027)Pro+(-0.0226)Leu+(0.0325)Phe;0.532,0.618,0.652,0.636,0.615,0.669,0.760,0.670,(-0.5574)+(-0.0143)Thr+(-0.0032)Pro+(0.0245)Ile+(-0.0082)Phe;0.531,0.621,0.640,0.614,0.611,0.665,0.749,0.660,(-0.6515)+(-0.0166)Thr+(0.0074)Orn+(0.0190)Ile+(-0.0107)Phe;0.520,0.591,0.754,0.810,0.714,0.734,0.703,0.740,(0.8473)+(-0.0016)Gly+(0.0010)Gln+(-0.0089)Thr+(-0.0154)Leu;0.518,0.620,0.680,0.676,0.663,0.688,0.723,0.687,(-0.2313)+(-0.0005)Gly+(-0.0005)Gln+(-0.0149)Thr+(0.0128)Orn;0.516,0.583,0.718,0.765,0.685,0.708,0.667,0.706,(1.1176)+(-0.0012)Gly+(-0.0093)Thr+(0.0034)Pro+(-0.0169)Leu;0.515,0.584,0.715,0.769,0.674,0.719,0.651,0.703,(0.6946)+(0.0006)Gln+(-0.0109)Thr+(0.0034)Pro+(-0.0169)Leu;0.514,0.600,0.681,0.726,0.669,0.654,0.610,0.665

,(-0.4530)+(-0.0026)Gly+(0.0127)Orn+(-0.0252)Leu+(0.0258)Phe;0.514,0.620,0.692,0.694,0.669,0.694,0.734,0.698,(-0.3532)+(-0.0007)Gly+(-0.0150)Thr+(-0.0009)Pro+(0.0128)Orn;0.511,0.621,0.687,0.687,0.664,0.692,0.734,0.694,(-0.4447)+(-0.0007)Gly+(-0.0154)Thr+(0.0121)Orn+(0.0009)Phe;0.510,0.591,0.422,0.379,0.410,0.554,0.468,0.453,(-3.8014)+(0.0213)Ser+(-0.0107)Orn+(0.0193)Ile+(-0.0123)Phe;0.508,0.595,0.694,0.734,0.687,0.715,0.585,0.680,(0.7189)+(-0.0027)Gly+(-0.0008)Gln+(0.0162)Orn+(-0.0200)Leu;0.508,0.620,0.680,0.680,0.661,0.695,0.706,0.685,(-0.2386)+(-0.0006)Gln+(-0.0148)Thr+(-0.0007)Pro+(0.0132)Orn;0.507,0.620,0.672,0.668,0.655,0.683,0.709,0.679,(-0.3382)+(-0.0006)Gln+(-0.0152)Thr+(0.0125)Orn+(0.0021)Phe;0.506,0.591,0.693,0.739,0.675,0.707,0.596,0.679,(0.4039)+(-0.0030)Gly+(0.0010)Pro+(0.0145)Orn+(-0.0210)Leu;0.504,0.601,0.633,0.673,0.641,0.640,0.504,0.615,(-0.2906)+(-0.0018)Gln+(0.0137)Orn+(-0.0249)Leu+(0.0293)Phe;0.502,0.592,0.694,0.709,0.665,0.659,0.737,0.693,(-0.3017)+(-0.0004)Gly+(-0.0001)Gln+(-0.0131)Thr+(0.0054)Phe;0.501,0.621,0.684,0.688,0.659,0.695,0.717,0.690,(-0.5491)+(-0.0155)Thr+(-0.0009)Pro+(0.0122)Orn+(0.0024)Phe;0.501,0.586,0.683,0.736,0.663,0.626,0.622,0.662,(-0.2902)+(-0.0021)Gly+(0.0012)Pro+(-0.0240)Leu+(0.0281)Phe;0.500,0.592,0.635,0.691,0.627,0.631,0.509,0.614,(-0.9792)+(0.0004)Pro+(0.0105)Orn+(-0.0254)Leu+(0.0270)Phe

[0381] 0.885,0.904,0.807,0.790,0.811,0.859,0.806,0.816,(0.7826)+(0.0620)Ser+(-0.1170)His+(-0.2419)Met+(0.1752)Phe+(-0.1023)Trp;0.881,0.904,0.787,0.767,0.743,0.868,0.870,0.812,(-3.2208)+(0.0511)Ser+(-0.0642)Val+(-0.4837)Met+(0.2047)Ile+(0.1423)Phe;0.878,0.897,0.812,0.796,0.830,0.832,0.800,0.815,(5.1467)+(-0.1179)His+(0.0505)Thr+(-0.3103)Met+(0.1690)Phe+(-0.1253)Trp;0.875,0.896,0.820,0.810,0.789,0.844,0.895,0.835,(3.7150)+(-0.0537)Val+(-0.2954)Met+(0.1852)Ile+(0.1259)Phe+(-0.1109)Trp;0.875,0.895,0.789,0.774,0.751,0.853,0.860,0.810,(0.1159)+(0.0397)Thr+(-0

.0717)Val+(-0.5387)Met+(0.2196)Ile+(0.1380)Phe;0.875,0.895,0.798,0.781,0.770,0.873,0.849,0.818,(3.1269)+(0.0422)Ser+(-0.0412)Val+(-0.2543)Met+(0.1807)Ile+(-0.1110)Trp;0.873,0.891,0.804,0.793,0.778,0.865,0.845,0.820,(6.1068)+(0.0314)Thr+(-0.0472)Val+(-0.2968)Met+(0.1870)Ile+(-0.1123)Trp;0.873,0.894,0.802,0.801,0.821,0.824,0.749,0.799,(-0.5508)+(0.0412)Ser+(0.0255)Thr+(-0.3787)Met+(0.1449)Phe+(-0.1587)Trp;0.872,0.895,0.788,0.770,0.786,0.843,0.800,0.800,(2.3141)+(0.0583)Ser+(-0.0877)Asn+(-0.1178)His+(0.1297)Phe+(-0.1083)Trp;0.871,0.891,0.822,0.825,0.821,0.840,0.802,0.822,(0.1021)+(0.0548)Ser+(-0.0702)Asn+(-0.2374)Met+(0.1351)Phe+(-0.1394)Trp;0.870,0.891,0.752,0.712,0.750,0.819,0.812,0.773,(1.3906)+(0.0486)Ser+(-0.1393)His+(0.0551)Ile+(0.0945)Phe+(-0.1337)Trp;0.870,0.891,0.796,0.793,0.798,0.816,0.784,0.798,(-1.1827)+(0.0534)Ser+(0.0112)Pro+(-0.3367)Met+(0.1310)Phe+(-0.1475)Trp;0.869,0.891,0.757,0.712,0.765,0.840,0.800,0.779,(-1.7305)+(0.0660)Ser+(-0.1520)His+(-0.3451)Met+(0.0655)Ile+(0.1399)Phe;0.869,0.893,0.791,0.775,0.793,0.818,0.812,0.800,(-1.8777)+(0.0545)Ser+(-0.3436)Met+(0.0626)Ile+(0.1094)Phe+(-0.1527)Trp;0.868,0.890,0.761,0.736,0.765,0.824,0.777,0.775,(2.0544)+(0.0446)Ser+(-0.1387)His+(0.0092)Thr+(0.1199)Phe+(-0.1248)Trp;0.868,0.889,0.779,0.758,0.772,0.843,0.802,0.794,(2.0435)+(0.0489)Ser+(-0.1290)His+(-0.0032)Ala+(0.1270)Phe+(-0.1160)Trp;0.868,0.889,0.778,0.759,0.773,0.831,0.802,0.791,(1.1298)+(0.0417)Ser+(0.0048)Gln+(-0.1456)His+(0.1177)Phe+(-0.1209)Trp;0.867,0.888,0.815,0.812,0.827,0.837,0.784,0.815,(0.0357)+(0.0526)Ser+(-0.0812)Cit+(-0.2609)Met+(0.1538)Phe+(-0.1535)Trp;0.867,0.888,0.781,0.748,0.781,0.854,0.814,0.799,(3.5789)+(0.0516)Ser+(-0.0938)His+(-0.1736)Met+(0.0922)Ile+(-0.1052)Trp;0.867,0.892,0.850,0.846,0.846,0.857,0.862,0.853,(2.4271)+(0.0126)Gln+(-0.1275)His+(-0.1955)Met+(0.1405)Phe+(-0.1055)Trp;0.867,0.889,0.816,0.822,0.818,0.832,0.788,0.815,(-0.4878)+(0.0490)Ser+(-0.0049)Val+(-0.2

846)Met+(0.1424)Phe+(-0.1406)Trp;0.866,0.887,0.816,0.818,0.817,0.831,0.794,0.815,(-0.5769)+(0.0491)Ser+(-0.0013)Ala+(-0.2803)Met+(0.1352)Phe+(-0.1444)Trp;0.866,0.886,0.765,0.738,0.770,0.826,0.784,0.779,(1.8712)+(0.0483)Ser+(-0.1359)His+(0.0031)Val+(0.1166)Phe+(-0.1217)Trp;0.865,0.887,0.769,0.745,0.770,0.831,0.787,0.783,(1.9956)+(0.0490)Ser+(-0.1310)His+(-0.0036)Lys+(0.1239)Phe+(-0.1159)Trp;0.865,0.887,0.760,0.733,0.761,0.824,0.783,0.775,(1.7804)+(0.0485)Ser+(-0.1341)His+(0.0048)Pro+(0.1167)Phe+(-0.1228)Trp;0.865,0.886,0.820,0.818,0.821,0.820,0.824,0.821,(-0.3553)+(0.0602)Ser+(-0.0073)Gly+(-0.2857)Met+(0.1331)Phe+(-0.1472)Trp;0.865,0.887,0.789,0.772,0.790,0.846,0.794,0.800,(-1.9912)+(0.0522)Ser+(0.0078)Gln+(-0.1664)His+(-0.3053)Met+(0.1634)Phe;0.865,0.889,0.766,0.742,0.766,0.828,0.787,0.781,(1.9245)+(0.0468)Ser+(-0.1348)His+(0.0091)Orn+(0.1171)Phe+(-0.1189)Trp;0.864,0.886,0.814,0.817,0.821,0.829,0.778,0.811,(-0.4521)+(0.0518)Ser+(-0.0129)Arg+(-0.2739)Met+(0.1366)Phe+(-0.1433)Trp;0.864,0.887,0.811,0.813,0.816,0.825,0.787,0.810,(-0.7227)+(0.0493)Ser+(-0.2923)Met+(0.0009)Lys+(0.1342)Phe+(-0.1466)Trp;0.864,0.886,0.759,0.726,0.763,0.824,0.792,0.776,(1.8500)+(0.0486)Ser+(-0.1392)His+(0.0143)Leu+(0.1083)Phe+(-0.1261)Trp;0.864,0.888,0.815,0.820,0.818,0.825,0.793,0.814,(-1.1040)+(0.0473)Ser+(0.0017)Gln+(-0.2971)Met+(0.1332)Phe+(-0.1477)Trp;0.864,0.886,0.837,0.833,0.828,0.847,0.858,0.841,(3.6651)+(-0.0547)Asn+(0.0112)Gln+(-0.1282)His+(0.1022)Phe+(-0.1139)Trp;0.864,0.886,0.760,0.734,0.776,0.832,0.742,0.771,(-0.2048)+(0.0522)Ser+(-0.1621)His+(0.0303)Thr+(-0.3740)Met+(0.1725)Phe;0.863,0.883,0.803,0.788,0.804,0.823,0.826,0.810,(3.5373)+(0.0076)Gln+(-0.1441)His+(0.0157)Thr+(0.1020)Phe+(-0.1282)Trp;0.863,0.884,0.803,0.780,0.796,0.827,0.859,0.815,(3.2913)+(0.0087)Gln+(-0.1391)His+(0.0479)Ile+(0.0749)Phe+(-0.1325)Trp;0.863,0.882,0.796,0.778,0.783,0.813,0.859,0.808,(5.1978)+(-0.0933)His+(0.1103)Ile+(-0.0471)Leu+(0.0874

)Phe+(-0.1224)Trp;0.863,0.885,0.774,0.748,0.773,0.827,0.805,0.788,(2.0395)+(0.0533)Ser+(-0.0038)Gly+(-0.1297)His+(0.1197)Phe+(-0.1207)Trp;0.862,0.883,0.793,0.781,0.778,0.854,0.812,0.806,(2.5271)+(0.0419)Ser+(-0.2185)Met+(0.1596)Ile+(-0.0574)Leu+(-0.1314)Trp;0.862,0.881,0.772,0.751,0.749,0.848,0.821,0.792,(3.4831)+(0.0331)Ser+(-0.0771)Cit+(-0.0340)Val+(0.1485)Ile+(-0.1591)Trp;0.862,0.889,0.815,0.814,0.822,0.830,0.794,0.815,(-0.7926)+(0.0501)Ser+(0.0115)Tyr+(-0.3066)Met+(0.1319)Phe+(-0.1486)Trp;0.862,0.887,0.811,0.813,0.816,0.826,0.786,0.810,(-0.7015)+(0.0493)Ser+(-0.2903)Met+(0.0017)Orn+(0.1335)Phe+(-0.1458)Trp;0.862,0.882,0.758,0.728,0.770,0.833,0.759,0.773,(-1.0380)+(0.0647)Ser+(-0.1482)His+(0.0115)Pro+(-0.3306)Met+(0.1610)Phe;0.861,0.885,0.813,0.821,0.799,0.833,0.806,0.815,(1.6715)+(0.0476)Ser+(-0.1446)Asn+(-0.0086)Val+(0.1089)Phe+(-0.1367)Trp;0.861,0.880,0.793,0.771,0.783,0.852,0.829,0.809,(3.2283)+(0.0372)Ser+(-0.0088)Ala+(-0.0908)Cit+(0.0909)Ile+(-0.1701)Trp;0.861,0.878,0.772,0.741,0.758,0.852,0.825,0.794,(4.0657)+(0.0425)Ser+(-0.1050)His+(-0.0055)Ala+(0.0864)Ile+(-0.1172)Trp;0.861,0.883,0.785,0.771,0.744,0.867,0.850,0.808,(4.1492)+(0.0434)Ser+(-0.1318)Asn+(-0.0423)Val+(0.1606)Ile+(-0.1125)Trp;0.861,0.879,0.782,0.760,0.756,0.861,0.837,0.804,(5.9386)+(-0.0741)His+(0.0358)Thr+(-0.0456)Val+(-0.3306)Met+(0.1847)Ile;0.860,0.885,0.767,0.751,0.763,0.823,0.779,0.779,(1.8730)+(0.0486)Ser+(-0.1286)His+(-0.0217)Tyr+(0.1324)Phe+(-0.1123)Trp;0.860,0.884,0.801,0.781,0.811,0.820,0.818,0.808,(6.2672)+(-0.0530)Asn+(-0.1153)His+(0.0280)Thr+(0.1053)Phe+(-0.1250)Trp;0.860,0.883,0.788,0.767,0.765,0.820,0.870,0.805,(5.2104)+(-0.0853)His+(-0.0319)Val+(0.1230)Ile+(0.0851)Phe+(-0.1202)Trp;0.860,0.882,0.795,0.773,0.806,0.848,0.790,0.804,(2.7638)+(0.0471)Ser+(-0.0719)Cit+(-0.1993)Met+(0.0844)Ile+(-0.1507)Trp;0.860,0.879,0.794,0.768,0.801,0.838,0.814,0.805,(7.4342)+(-0.0953)His+(0.0341)Thr+(-0.1983)Met+(0.0776)Ile+(-0.114

4)Trp;0.859,0.887,0.774,0.754,0.779,0.833,0.774,0.785,(2.1238)+(0.052
3)Ser+(-0.1273)His+(-0.0197)Arg+(0.1292)Phe+(-0.1160)Trp;0.859,0.881,
0.800,0.795,0.748,0.832,0.901,0.819,(3.7923)+(-0.0091)Ala+(-0.0450)Va
l+(0.1630)Ile+(0.0768)Phe+(-0.1445)Trp;0.859,0.881,0.776,0.741,0.785,
0.812,0.828,0.791,(5.3267)+(-0.1278)His+(0.0201)Thr+(0.0470)Ile+(0.07
86)Phe+(-0.1391)Trp;0.859,0.877,0.762,0.731,0.754,0.837,0.807,0.782,(
3.8931)+(0.0396)Ser+(-0.1007)His+(0.1097)Ile+(-0.0253)Leu+(-0.1191)Tr
p;0.859,0.878,0.758,0.728,0.739,0.838,0.821,0.782,(4.0439)+(0.0375)Se
r+(-0.0904)His+(-0.0238)Val+(0.1304)Ile+(-0.1153)Trp;0.859,0.885,0.80
6,0.805,0.811,0.821,0.787,0.806,(-0.8637)+(0.0503)Ser+(-0.2975)Met+(0
.0070)Leu+(0.1282)Phe+(-0.1487)Trp;0.858,0.884,0.808,0.800,0.769,0.83
5,0.891,0.824,(4.8751)+(-0.0906)Asn+(-0.0475)Val+(0.1507)Ile+(0.0827)
Phe+(-0.1287)Trp;0.858,0.876,0.781,0.772,0.727,0.856,0.863,0.804,(3.2
574)+(0.0279)Ser+(-0.0088)Ala+(-0.0395)Val+(0.1687)Ile+(-0.1372)Trp;0
.858,0.881,0.764,0.727,0.768,0.843,0.794,0.783,(4.0283)+(0.0453)Ser+(
-0.0942)His+(-0.0544)Cit+(0.0813)Ile+(-0.1325)Trp;0.858,0.880,0.778,0
.759,0.771,0.849,0.793,0.793,(3.2117)+(0.0345)Ser+(-0.0875)Cit+(0.149
6)Ile+(-0.0566)Leu+(-0.1652)Trp;0.858,0.877,0.770,0.740,0.765,0.840,0
.813,0.789,(3.1321)+(0.0347)Ser+(0.0047)Gln+(-0.1246)His+(0.0728)Ile+
(-0.1245)Trp;0.858,0.878,0.813,0.799,0.810,0.827,0.847,0.821,(3.3840)
+(0.0095)Gln+(-0.1425)His+(0.0116)Leu+(0.0904)Phe+(-0.1258)Trp;0.857,
0.880,0.816,0.823,0.798,0.840,0.822,0.821,(1.6291)+(0.0469)Ser+(-0.13
12)Asn+(-0.0047)Ala+(0.1017)Phe+(-0.1426)Trp;0.857,0.879,0.791,0.771,
0.797,0.844,0.793,0.801,(3.9149)+(0.0465)Ser+(-0.0917)Asn+(-0.0824)Ci
t+(0.0699)Ile+(-0.1634)Trp;0.857,0.881,0.770,0.740,0.745,0.867,0.828,
0.795,(2.8137)+(0.0466)Ser+(-0.0807)His+(-0.0371)Val+(-0.2642)Met+(0.
1717)Ile;0.857,0.878,0.769,0.736,0.767,0.843,0.807,0.788,(4.2624)+(0.
0480)Ser+(-0.0545)Asn+(-0.1007)His+(0.0756)Ile+(-0.1154)Trp;0.857,0.8

79,0.828,0.824,0.814,0.844,0.855,0.834,(3.5239)+(0.0097)Gln+(-0.1333)His+(-0.0032)Ala+(0.1073)Phe+(-0.1175)Trp;0.857,0.878,0.761,0.728,0.773,0.833,0.771,0.776,(-0.6619)+(0.0620)Ser+(-0.1526)His+(-0.2983)Met+(0.0137)Leu+(0.1517)Phe;0.857,0.882,0.771,0.746,0.779,0.833,0.779,0.784,(1.9244)+(0.0517)Ser+(-0.1144)His+(-0.0584)Cit+(0.1348)Phe+(-0.1334)Trp;0.857,0.879,0.816,0.813,0.848,0.810,0.764,0.809,(3.7258)+(0.0431)Thr+(-0.0852)Cit+(-0.3256)Met+(0.1519)Phe+(-0.1732)Trp;0.857,0.879,0.806,0.803,0.811,0.826,0.788,0.807,(2.1022)+(0.0529)Ser+(-0.1251)Asn+(-0.0917)Cit+(0.1151)Phe+(-0.1595)Trp;0.857,0.880,0.788,0.766,0.799,0.810,0.807,0.796,(5.5853)+(-0.1244)His+(0.0228)Thr+(-0.0005)Val+(0.1041)Phe+(-0.1276)Trp;0.857,0.878,0.816,0.807,0.812,0.829,0.843,0.823,(3.3458)+(0.0095)Gln+(-0.1398)His+(0.0024)Val+(0.0977)Phe+(-0.1221)Trp;0.856,0.878,0.754,0.737,0.721,0.802,0.836,0.774,(0.6397)+(0.0275)Ser+(-0.0443)Val+(0.1410)Ile+(0.0702)Phe+(-0.1676)Trp;0.856,0.880,0.797,0.777,0.765,0.844,0.885,0.818,(3.6059)+(-0.0686)His+(-0.0517)Val+(-0.3157)Met+(0.1762)Ile+(0.1273)Phe;0.856,0.880,0.789,0.766,0.801,0.814,0.807,0.797,(5.7138)+(-0.1235)His+(0.0240)Thr+(-0.0032)Lys+(0.1058)Phe+(-0.1265)Trp;0.856,0.878,0.795,0.779,0.802,0.829,0.799,0.802,(0.6577)+(0.0104)Gln+(-0.1745)His+(0.0382)Thr+(-0.3640)Met+(0.1519)Phe;0.856,0.879,0.814,0.804,0.809,0.826,0.842,0.820,(3.3558)+(0.0093)Gln+(-0.1374)His+(0.0025)Pro+(0.0992)Phe+(-0.1212)Trp;0.856,0.884,0.799,0.782,0.799,0.828,0.821,0.808,(5.8061)+(-0.1201)His+(0.0246)Thr+(-0.0041)Ala+(0.1105)Phe+(-0.1262)Trp;0.856,0.876,0.818,0.812,0.785,0.859,0.875,0.833,(4.9759)+(0.0049)Gln+(-0.0418)Val+(-0.2203)Met+(0.1710)Ile+(-0.1132)Trp;0.856,0.877,0.784,0.768,0.731,0.886,0.864,0.812,(1.2216)+(0.0411)Ser+(-0.0059)Ala+(-0.0515)Val+(-0.3044)Met+(0.2053)Ile;0.856,0.878,0.765,0.735,0.776,0.836,0.770,0.779,(-0.4514)+(0.0591)Ser+(-0.1501)His+(-0.2806)Met+(0.0131)Orn+(0.1573)Phe;0.856,0.879,0.812,0.804,0

.806,0.829,0.831,0.818,(3.151
5)+(0.0022)Gly+(0.0090)Gln+(-0.1388)His+(0.1041)Phe+(-0.1198)Trp;0.85
5,0.878,0.818,0.810,0.812,0.831,0.841,0.823,(3.3673)+(0.0094)Gln+(-0.
1374)His+(0.0001)Lys+(0.1016)Phe+(-0.1198)Trp;0.855,0.880,0.783,0.761
,0.793,0.810,0.798,0.791,(5.2620)+(0.0022)Gly+(-0.1269)His+(0.0212)Th
r+(0.1052)Phe+(-0.1262)Trp;0.855,0.875,0.755,0.718,0.756,0.831,0.793,
0.775,(3.9473)+(0.0401)Ser+(-0.1143)His+(0.0034)Thr+(0.0748)Ile+(-0.1
241)Trp;0.855,0.873,0.812,0.795,0.796,0.853,0.860,0.826,(5.2068)+(0.0
089)Gln+(-0.1144)His+(-0.0051)Ala+(0.0741)Ile+(-0.1221)Trp;0.855,0.87
9,0.787,0.764,0.799,0.809,0.807,0.795,(5.5726)+(-0.1246)His+(0.0224)T
hr+(0.0006)Pro+(0.1028)Phe+(-0.1282)Trp;0.855,0.879,0.782,0.753,0.797
,0.806,0.811,0.792,(5.6070)+(-0.1299)His+(0.0229)Thr+(0.0109)Leu+(0.0
933)Phe+(-0.1337)Trp;0.855,0.876,0.761,0.723,0.762,0.829,0.813,0.782,
(3.9566)+(0.0478)Ser+(-0.0041)Gly+(-0.1095)His+(0.0747)Ile+(-0.1238)T
rp;0.855,0.881,0.803,0.807,0.796,0.818,0.796,0.804,(1.4756)+(0.0473)S
er+(-0.1348)Asn+(-0.0031)Lys+(0.0946)Phe+(-0.1472)Trp;0.855,0.880,0.8
11,0.818,0.801,0.818,0.809,0.812,(0.8971)+(0.0444)Ser+(-0.1524)Asn+(0
.0027)Gln+(0.0906)Phe+(-0.1515)Trp;0.855,0.875,0.778,0.763,0.782,0.83
1,0.774,0.787,(1.9713)+(0.0402)Ser+(0.0129)Thr+(-0.2730)Met+(0.0781)I
le+(-0.1513)Trp;0.855,0.878,0.820,0.804,0.811,0.854,0.857,0.832,(4.77
75)+(0.0105)Gln+(-0.1077)His+(-0.1331)Met+(0.0746)Ile+(-0.1125)Trp;0.
855,0.875,0.792,0.771,0.788,0.832,0.824,0.804,(1.9579)+(0.0553)Ser+(-
0.0066)Gly+(-0.2314)Met+(0.0778)Ile+(-0.1475)Trp;0.854,0.876,0.767,0.
742,0.775,0.835,0.770,0.781,(-0.3621)+(0.0601)Ser+(-0.1472)His+(-0.00
00)Ala+(-0.2801)Met+(0.1624)Phe;0.854,0.874,0.763,0.733,0.780,0.799,0
.783,0.774,(0.5198)+(0.0391)Ser+(-0.1139)Cit+(0.0553)Ile+(0.0745)Phe+
(-0.2059)Trp;0.854,0.874,0.758,0.721,0.758,0.834,0.797,0.778,(3.9711)
+(0.0428)Ser+(-0.1085)His+(-0.0047)Lys+(0.0789)Ile+(-0.1192)Trp;0.854

,0.874,0.808,0.799,0.764,0.851,0.892,0.826,(-0.1330)+(0.0047)Gln+(-0.0636)Val+(-0.4340)Met+(0.1995)Ile+(0.1229)Phe;0.854,0.876,0.811,0.801,0.779,0.850,0.873,0.826,(6.2831)+(-0.0462)Val+(-0.2225)Met+(0.0113)Lys+(0.1776)Ile+(-0.1129)Trp;0.854,0.870,0.796,0.781,0.760,0.846,0.874,0.815,(7.4279)+(-0.0586)His+(-0.0056)Ala+(-0.0315)Val+(0.1520)Ile+(-0.1066)Trp;0.854,0.880,0.786,0.762,0.798,0.810,0.806,0.794,(5.5169)+(-0.1263)His+(0.0208)Thr+(0.0121)Orn+(0.0982)Phe+(-0.1272)Trp;0.854,0.880,0.814,0.802,0.812,0.832,0.839,0.821,(3.4507)+(0.0089)Gln+(-0.1382)His+(0.0104)Orn+(0.0967)Phe+(-0.1195)Trp;0.854,0.878,0.798,0.801,0.794,0.813,0.790,0.799,(1.6116)+(0.0446)Ser+(-0.1503)Asn+(0.0063)Thr+(0.0911)Phe+(-0.1524)Trp;0.854,0.876,0.768,0.743,0.775,0.836,0.771,0.781,(-0.3467)+(0.0600)Ser+(-0.1466)His+(-0.0006)Val+(-0.2795)Met+(0.1632)Phe;0.854,0.874,0.762,0.753,0.742,0.792,0.806,0.773,(0.2149)+(0.0271)Ser+(0.1366)Ile+(-0.0722)Leu+(0.0654)Phe+(-0.1688)Trp;0.854,0.871,0.792,0.771,0.788,0.829,0.828,0.804,(5.0483)+(0.0075)Gln+(-0.1264)His+(0.0108)Thr+(0.0638)Ile+(-0.1296)Trp;0.854,0.877,0.769,0.754,0.730,0.874,0.817,0.794,(1.3976)+(0.0327)Ser+(0.0214)Thr+(-0.0585)Val+(-0.4112)Met+(0.2117)Ile;0.854,0.876,0.756,0.718,0.759,0.833,0.795,0.776,(3.8669)+(0.0404)Ser+(-0.1152)His+(0.0102)Orn+(0.0727)Ile+(-0.1231)Trp;0.854,0.878,0.771,0.747,0.777,0.836,0.773,0.783,(-0.0937)+(0.0625)Ser+(-0.0328)Asn+(-0.1424)His+(-0.2565)Met+(0.1614)Phe;0.854,0.875,0.792,0.777,0.778,0.850,0.820,0.806,(1.9285)+(0.0448)Ser+(-0.0051)Ala+(-0.2058)Met+(0.0873)Ile+(-0.1414)Trp;0.854,0.871,0.791,0.767,0.780,0.840,0.840,0.807,(7.4791)+(-0.1018)His+(0.0204)Thr+(-0.0058)Ala+(0.0752)Ile+(-0.1267)Trp;0.854,0.876,0.814,0.804,0.776,0.856,0.888,0.831,(6.8330)+(-0.0048)Ala+(-0.0429)Val+(-0.1528)Met+(0.1831)Ile+(-0.1052)Trp;0.854,0.875,0.790,0.779,0.770,0.847,0.819,0.803,(3.4664)+(0.0405)Ser+(-0.1053)Asn+(0.1390)Ile+(-0.0575)Leu+(-0.1351)Trp;0.853,0.880,0.828,0.

825,0.822,0.837,0.839,0.831,(3.3845)+(0.0117)Gln+(-0.1375)His+(-0.0203)Arg+(0.1072)Phe+(-0.1168)Trp;0.853,0.874,0.755,0.719,0.757,0.829,0.796,0.775,(3.8568)+(0.0418)Ser+(-0.1123)His+(0.0007)Pro+(0.0747)Ile+(-0.1230)Trp;0.853,0.873,0.808,0.796,0.767,0.857,0.888,0.827,(6.8566)+(-0.0077)Ala+(-0.0628)Cit+(-0.0371)Val+(0.1716)Ile+(-0.1287)Trp;0.853,0.877,0.805,0.794,0.753,0.856,0.905,0.827,(1.9107)+(-0.0049)Ala+(-0.0626)Val+(-0.3529)Met+(0.2065)Ile+(0.1180)Phe;0.853,0.877,0.769,0.743,0.776,0.835,0.775,0.782,(-0.3291)+(0.0615)Ser+(-0.0011)Gly+(-0.1463)His+(-0.2790)Met+(0.1613)Phe;0.853,0.878,0.781,0.769,0.785,0.797,0.790,0.785,(5.5439)+(-0.1223)His+(0.0273)Thr+(-0.0348)Tyr+(0.1213)Phe+(-0.1192)Trp;0.853,0.874,0.790,0.775,0.787,0.840,0.798,0.800,(2.3672)+(0.0484)Ser+(-0.0480)Asn+(-0.1936)Met+(0.0764)Ile+(-0.1426)Trp;0.853,0.873,0.802,0.788,0.779,0.846,0.860,0.818,(6.2849)+(-0.0458)Val+(-0.2027)Met+(0.0253)Orn+(0.1745)Ile+(-0.1069)Trp;0.853,0.878,0.806,0.812,0.806,0.818,0.780,0.804,(1.5950)+(0.0489)Ser+(-0.1240)Asn+(-0.0168)Arg+(0.0984)Phe+(-0.1485)Trp;0.853,0.877,0.794,0.796,0.789,0.807,0.795,0.796,(1.3597)+(0.0473)Ser+(-0.1445)Asn+(0.0040)Pro+(0.0889)Phe+(-0.1514)Trp;0.853,0.870,0.790,0.776,0.756,0.877,0.831,0.810,(4.6454)+(0.0344)Thr+(-0.0544)Cit+(-0.0580)Val+(-0.3791)Met+(0.2064)Ile;0.853,0.873,0.790,0.781,0.754,0.851,0.843,0.807,(2.9329)+(0.0290)Ser+(-0.0093)Ala+(0.1656)Ile+(-0.0651)Leu+(-0.1444)Trp;0.853,0.873,0.810,0.788,0.806,0.844,0.850,0.822,(4.8098)+(0.0100)Gln+(-0.1053)His+(-0.0561)Cit+(0.0725)Ile+(-0.1348)Trp;0.853,0.878,0.815,0.797,0.791,0.856,0.884,0.832,(6.3689)+(0.0324)Tyr+(-0.0457)Val+(-0.2330)Met+(0.1797)Ile+(-0.1132)Trp;0.853,0.876,0.792,0.774,0.767,0.819,0.871,0.808,(4.0707)+(-0.0817)Cit+(-0.0402)Val+(0.1432)Ile+(0.0825)Phe+(-0.1589)Trp;0.852,0.873,0.779,0.749,0.779,0.819,0.829,0.794,(4.9691)+(0.0049)Gly+(-0.1175)His+(0.0505)Ile+(0.0805)Phe+(-0.1282)Trp;0.852,0.871,0.814,0.797,0.804,0.8

46,0.853,0.825,(5.2039)+(-0.0420)Asn+(0.0103)Gln+(-0.1150)His+(0.0630)Ile+(-0.1201)Trp;0.852,0.870,0.793,0.783,0.743,0.878,0.861,0.816,(4.2489)+(0.0315)Thr+(-0.0054)Ala+(-0.0588)Val+(-0.3585)Met+(0.2143)Ile;0.852,0.876,0.814,0.811,0.778,0.840,0.877,0.827,(3.6943)+(-0.0096)Ala+(0.1610)Ile+(-0.0770)Leu+(0.0732)Phe+(-0.1463)Trp;0.852,0.877,0.807,0.783,0.795,0.838,0.874,0.822,(6.1275)+(-0.1031)His+(-0.0061)Ala+(0.0587)Ile+(0.0822)Phe+(-0.1260)Trp;0.852,0.873,0.756,0.717,0.758,0.830,0.797,0.776,(3.8090)+(0.0420)Ser+(-0.1138)His+(0.0047)Tyr+(0.0750)Ile+(-0.1247)Trp;0.852,0.876,0.767,0.742,0.776,0.835,0.770,0.781,(-0.3603)+(0.0602)Ser+(-0.1472)His+(-0.2800)Met+(-0.0001)Lys+(0.1624)Phe;0.852,0.873,0.787,0.776,0.790,0.851,0.762,0.795,(5.5049)+(0.0447)Ser+(-0.0827)His+(0.0144)Pro+(-0.1254)Met+(-0.0964)Trp;0.852,0.875,0.770,0.748,0.781,0.837,0.758,0.781,(-0.2367)+(0.0624)Ser+(-0.1442)His+(-0.0117)Arg+(-0.2663)Met+(0.1640)Phe;0.852,0.876,0.771,0.746,0.782,0.840,0.765,0.783,(-0.1958)+(0.0609)Ser+(-0.1387)His+(-0.0330)Cit+(-0.2796)Met+(0.1650)Phe;0.852,0.875,0.758,0.724,0.762,0.834,0.786,0.777,(4.1217)+(0.0461)Ser+(-0.1074)His+(-0.0159)Arg+(0.0793)Ile+(-0.1207)Trp;0.852,0.877,0.809,0.805,0.803,0.812,0.829,0.812,(1.8904)+(0.0560)Ser+(-0.1372)Asn+(-0.0067)Gly+(0.0890)Phe+(-0.1503)Trp;0.852,0.872,0.775,0.749,0.787,0.833,0.780,0.787,(3.4969)+(0.0393)Ser+(-0.0911)Cit+(-0.0142)Lys+(0.0808)Ile+(-0.1720)Trp;0.852,0.876,0.819,0.814,0.807,0.821,0.858,0.825,(3.4147)+(-0.2406)Met+(0.1575)Ile+(-0.0775)Leu+(0.1108)Phe+(-0.1280)Trp;0.852,0.878,0.818,0.816,0.806,0.828,0.842,0.823,(3.3343)+(0.0095)Gln+(-0.1337)His+(-0.0168)Tyr+(0.1102)Phe+(-0.1142)Trp;0.852,0.874,0.788,0.764,0.794,0.836,0.802,0.799,(1.1062)+(0.0485)Ser+(0.0307)Tyr+(-0.2872)Met+(0.0788)Ile+(-0.1554)Trp;0.851,0.868,0.800,0.784,0.786,0.835,0.845,0.813,(4.9134)+(0.0079)Gln+(-0.1067)His+(0.1038)Ile+(-0.0285)Leu+(-0.1203)Trp;0.851,0.871,0.792,0.782,0.748,0.841,0.873,0.

811,(1.1087)+(0.0037)Gly+(-0.0641)Val+(-0.4040)Met+(0.2015)Ile+(0.1226)Phe;0.851,0.874,0.789,0.756,0.795,0.815,0.844,0.802,(5.7501)+(-0.1135)His+(0.0137)Orn+(0.0461)Ile+(0.0714)Phe+(-0.1287)Trp;0.851,0.881,0.826,0.817,0.822,0.843,0.845,0.832,(3.2358)+(0.0105)Gln+(-0.1237)His+(-0.0600)Cit+(0.1159)Phe+(-0.1286)Trp;0.851,0.868,0.810,0.805,0.832,0.865,0.737,0.810,(5.9081)+(0.0401)Ser+(-0.1025)Asn+(-0.1117)Cit+(0.0550)Orn+(-0.1420)Trp;0.851,0.872,0.801,0.789,0.758,0.842,0.892,0.820,(2.4756)+(-0.0383)Asn+(-0.0645)Val+(-0.3484)Met+(0.2005)Ile+(0.1203)Phe;0.851,0.874,0.804,0.786,0.781,0.846,0.869,0.821,(7.6197)+(-0.0460)His+(-0.0358)Val+(-0.1372)Met+(0.1622)Ile+(-0.0945)Trp;0.851,0.878,0.801,0.804,0.796,0.814,0.794,0.802,(1.4359)+(0.0465)Ser+(-0.1429)Asn+(0.0053)Orn+(0.0897)Phe+(-0.1492)Trp;0.851,0.877,0.817,0.826,0.838,0.794,0.767,0.806,(3.0966)+(0.0402)Thr+(-0.0101)Val+(-0.3465)Met+(0.1477)Phe+(-0.1509)Trp;0.851,0.878,0.813,0.799,0.787,0.854,0.875,0.829,(7.1297)+(-0.0440)Cit+(-0.0402)Val+(-0.1470)Met+(0.1710)Ile+(-0.1128)Trp;0.851,0.871,0.811,0.806,0.794,0.813,0.858,0.818,(4.2581)+(-0.0654)Asn+(0.1349)Ile+(-0.0719)Leu+(0.0735)Phe+(-0.1434)Trp;0.851,0.873,0.797,0.810,0.783,0.805,0.785,0.796,(1.4549)+(0.0479)Ser+(-0.1321)Asn+(-0.0320)Tyr+(0.1098)Phe+(-0.1402)Trp;0.851,0.876,0.768,0.744,0.775,0.835,0.771,0.781,(-0.3286)+(0.0599)Ser+(-0.1468)His+(-0.0029)Tyr+(-0.2759)Met+(0.1630)Phe;0.851,0.872,0.763,0.724,0.782,0.810,0.795,0.778,(3.2052)+(-0.1538)His+(0.0441)Thr+(-0.3685)Met+(0.0515)Ile+(0.1214)Phe;0.851,0.874,0.782,0.772,0.773,0.808,0.810,0.790,(0.9045)+(0.0479)Ser+(-0.1436)Asn+(0.0421)Ile+(0.0692)Phe+(-0.1612)Trp;0.850,0.878,0.790,0.770,0.808,0.813,0.788,0.795,(6.2191)+(-0.1219)His+(0.0299)Thr+(-0.0219)Arg+(0.1095)Phe+(-0.1297)Trp;0.850,0.874,0.777,0.778,0.735,0.792,0.851,0.789,(3.3999)+(-0.0358)Tyr+(-0.0434)Val+(0.1433)Ile+(0.0889)Phe+(-0.1471)Trp;0.850,0.869,0.784,0.760,0.778,0.827,0.826,0.798,(6.9382)+(

-0.0927)His+(0.0146)Thr+(0.1033)Ile+(-0.0285)Leu+(-0.1229)Trp;0.850,0.872,0.805,0.793,0.776,0.848,0.864,0.820,(6.3201)+(0.0024)Gly+(-0.0433)Val+(-0.1929)Met+(0.1767)Ile+(-0.1071)Trp;0.850,0.877,0.792,0.768,0.811,0.822,0.795,0.799,(5.8315)+(-0.1095)His+(0.0272)Thr+(-0.0637)Cit+(0.1186)Phe+(-0.1431)Trp;0.850,0.867,0.791,0.774,0.768,0.836,0.854,0.808,(5.2261)+(0.0066)Gln+(-0.0952)His+(-0.0233)Val+(0.1204)Ile+(-0.1154)Trp;0.850,0.878,0.803,0.807,0.797,0.815,0.796,0.804,(1.4515)+(0.0468)Ser+(-0.1405)Asn+(-0.0008)Leu+(0.0934)Phe+(-0.1488)Trp;0.850,0.868,0.772,0.750,0.751,0.827,0.837,0.791,(6.7730)+(-0.0824)His+(0.0154)Thr+(-0.0283)Val+(0.1322)Ile+(
-0.1177)Trp;0.850,0.869,0.778,0.755,0.761,0.825,0.843,0.796,(6.8046)+(-0.0773)His+(-0.0304)Val+(0.0252)Orn+(0.1317)Ile+(-0.1094)Trp;0.850,0.873,0.779,0.759,0.745,0.881,0.828,0.803,(1.6440)+(0.0420)Ser+(-0.0481)Cit+(-0.0506)Val+(-0.3224)Met+(0.1938)Ile;0.850,0.876,0.815,0.791,0.820,0.827,0.859,0.824,(5.8062)+(-0.0945)His+(-0.1724)Met+(0.0567)Ile+(0.1080)Phe+(-0.1178)Trp;0.850,0.875,0.775,0.748,0.738,0.883,0.846,0.804,(0.3933)+(0.0451)Ser+(0.0377)Tyr+(-0.0597)Val+(-0.4116)Met+(0.2115)Ile;0.849,0.874,0.806,0.794,0.777,0.844,0.870,0.821,(6.6637)+(0.0044)Pro+(-0.0436)Val+(-0.1952)Met+(0.1714)Ile+(-0.1070)Trp;0.849,0.872,0.811,0.799,0.780,0.848,0.876,0.826,(6.9181)+(-0.0137)Asn+(-0.0434)Val+(-0.1710)Met+(0.1747)Ile+(-0.1050)Trp;0.849,0.869,0.806,0.791,0.799,0.838,0.838,0.816,(5.0446)+(0.0110)Gln+(-0.1223)His+(-0.0185)Arg+(0.0672)Ile+(-0.1225)Trp;0.849,0.871,0.816,0.819,0.839,0.795,0.773,0.806,(3.5513)+(-0.0409)Asn+(0.0384)Thr+(-0.3082)Met+(0.1280)Phe+(-0.1568)Trp;0.849,0.871,0.772,0.743,0.796,0.828,0.757,0.781,(2.9730)+(0.0327)Ser+(-0.1189)Cit+(0.0315)Orn+(0.0594)Ile+(-0.1912)Trp;0.849,0.874,0.780,0.763,0.780,0.830,0.788,0.790,(1.6952)+(0.0461)Ser+(0.0047)Pro+(-0.2502)Met+(0.0730)Ile+(-0.1464)Trp;0.849,0.870,0.793,0.779,0.752,0.

839,0.884,0.814,(1.5834)+(-0.0648)Val+(-0.3904)Met+(0.0126)Orn+(0.199
5)Ile+(0.1149)Phe;0.849,0.868,0.794,0.784,0.750,0.837,0.882,0.813,(1.
6307)+(-0.0561)Val+(-0.3801)Met+(0.2196)Ile+(-0.0267)Leu+(0.1218)Phe;
0.849,0.867,0.808,0.794,0.786,0.846,0.865,0.823,(7.5454)+(-0.0660)His
+(-0.0058)Ala+(0.1335)Ile+(-0.0421)Leu+(-0.1107)Trp;0.849,0.867,0.783
,0.755,0.786,0.826,0.821,0.797,(7.5106)+(-0.0283)Asn+(-0.1025)His+(0.
0212)Thr+(0.0631)Ile+(-0.1267)Trp;0.849,0.866,0.808,0.802,0.758,0.860
,0.891,0.828,(6.9814)+(-0.0507)Asn+(-0.0065)Ala+(-0.0423)Val+(0.1700)
Ile+(-0.1125)Trp;0.849,0.868,0.772,0.761,0.740,0.795,0.853,0.787,(3.0
060)+(0.0043)Thr+(-0.0444)Val+(0.1417)Ile+(0.0668)Phe+(-0.1608)Trp;0.
848,0.878,0.797,0.786,0.817,0.788,0.791,0.795,(2.3220)+(0.0344)Thr+(-
0.3636)Met+(0.0501)Ile+(0.1063)Phe+(-0.1656)Trp;0.848,0.869,0.784,0.7
53,0.793,0.834,0.812,0.798,(7.3149)+(-0.0901)His+(0.0204)Thr+(-0.0511
)Cit+(0.0682)Ile+(-0.1372)Trp;0.848,0.868,0.777,0.767,0.743,0.798,0.8
61,0.792,(3.2079)+(-0.0001)Gln+(-0.0442)Val+(0.1423)Ile+(0.0685)Phe+(
-0.1575)Trp;0.848,0.872,0.808,0.798,0.777,0.847,0.871,0.823,(6.6552)+
(-0.0395)Val+(-0.1801)Met+(0.1831)Ile+(-0.0120)Leu+(-0.1062)Trp;0.848
,0.867,0.794,0.787,0.747,0.843,0.877,0.813,(5.5483)+(-0.0083)Ala+(-0.
0422)Val+(0.0170)Orn+(0.1658)Ile+(-0.1287)Trp;0.848,0.865,0.795,0.776
,0.790,0.830,0.834,0.807,(4.8269)+(0.0015)Gly+(0.0084)Gln+(-0.1230)Hi
s+(0.0653)Ile+(-0.1240)Trp;0.848,0.872,0.782,0.767,0.780,0.834,0.787,
0.792,(1.8163)+(0.0459)Ser+(-0.2274)Met+(-0.0030)Lys+(0.0799)Ile+(-0.
1441)Trp;0.848,0.872,0.781,0.769,0.746,0.803,0.869,0.797,(3.5225)+(-0
.0433)Val+(-0.0076)Lys+(0.1454)Ile+(0.0743)Phe+(-0.1515)Trp;0.848,0.8
73,0.814,0.808,0.820,0.835,0.805,0.817,(5.2177)+(0.0064)Gly+(-0.1024)
His+(-0.1510)Met+(0.1404)Phe+(-0.1017)Trp;0.848,0.874,0.779,0.763,0.7
32,0.882,0.841,0.805,(2.2672)+(0.0469)Ser+(-0.0849)Asn+(-0.0550)Val+(
-0.2573)Met+(0.1996)Ile;0.848,0.871,0.784,0.760,0.773,0.843,0.830,0.8

01,(5.8054)+(-0.0950)Cit+(-0.0372)Val+(0.0433)Orn+(0.1419)Ile+(-0.148
1)Trp;0.848,0.868,0.821,0.825,0.812,0.868,0.796,0.825,(5.0096)+(0.033
4)Ser+(-0.0751)Asn+(0.0086)Gln+(-0.0982)His+(-0.0949)Trp;0.848,0.867,
0.788,0.777,0.745,0.873,0.846,0.810,(5.1922)+(-0.0627)Asn+(0.0340)Thr
+(-0.0619)Val+(-0.3325)Met+(0.2097)Ile;0.848,0.870,0.781,0.766,0.781,
0.832,0.788,0.792,(1.7150)+(0.0452)Ser+(-0.2360)Met+(0.0010)Orn+(0.07
81)Ile+(-0.1465)Trp;0.848,0.871,0.802,0.796,0.791,0.837,0.816,0.810,(
5.6622)+(0.0207)Thr+(-0.2182)Met+(0.1454)Ile+(-0.0564)Leu+(-0.1342)Tr
p;0.847,0.866,0.791,0.786,0.740,0.844,0.874,0.811,(5.4877)+(0.0099)Th
r+(-0.0086)Ala+(-0.0415)Val+(0.1683)Ile+(-0.1356)Trp;0.847,0.871,0.78
6,0.772,0.784,0.833,0.793,0.796,(1.3331)+(0.0432)Ser+(0.0017)Gln+(-0.
2435)Met+(0.0777)Ile+(-0.1483)Trp;0.847,0.871,0.792,0.763,0.795,0.812
,0.854,0.806,(5.8754)+(-0.0049)Asn+(-0.1082)His+(0.0485)Ile+(0.0767)P
he+(-0.1288)Trp;0.847,0.873,0.790,0.773,0.797,0.818,0.805,0.798,(5.26
95)+(0.0040)Gly+(-0.1170)His+(0.0200)Orn+(0.0985)Phe+(-0.1147)Trp;0.8
47,0.870,0.793,0.779,0.752,0.837,0.883,0.813,(1.7118)+(0.0030)Pro+(-0
.0641)Val+(-0.3967)Met+(0.1981)Ile+(0.1193)Phe;0.847,0.865,0.777,0.75
0,0.778,0.821,0.817,0.791,(7.2139)+(-0.1064)His+(0.0191)Thr+(-0.0028)
Lys+(0.0660)Ile+(-0.1275)Trp;0.847,0.867,0.774,0.742,0.782,0.819,0.81
2,0.789,(6.9511)+(-0.1120)His+(0.0163)Thr+(0.0152)Orn+(0.0609)Ile+(-0
.1285)Trp;0.847,0.872,0.780,0.758,0.734,0.874,0.866,0.808,(1.2150)+(0
.0503)Ser+(-0.0066)Gly+(-0.0536)Val+(-0.3334)Met+(0.1984)Ile;0.847,0.
867,0.775,0.750,0.786,0.824,0.781,0.785,(2.6642)+(0.0335)Ser+(0.0011)
Gln+(-0.0950)Cit+(0.0682)Ile+(-0.1889)Trp;0.847,0.868,0.785,0.767,0.7
61,0.841,0.841,0.803,(5.8376)+(0.0118)Thr+(-0.0720)Cit+(-0.0363)Val+(
0.1473)Ile+(-0.1527)Trp;0.847,0.871,0.778,0.770,0.743,0.799,0.857,0.7
92,(3.0811)+(-0.0361)Val+(0.1612)Ile+(-0.0271)Leu+(0.0697)Phe+(-0.153
0)Trp;0.847,0.866,0.784,0.771,0.786,0.844,0.770,0.793,(5.9170)+(0.044

2)Ser+(-0.0583)Asn+(-0.0851)His+(0.0109)Pro+(-0.0996)Trp;0.847,0.870,0.792,0.762,0.793,0.813,0.853,0.805,(5.8356)+(-0.1097)His+(-0.0012)Pro+(0.0502)Ile+(0.0769)Phe+(-0.1290)Trp;0.847,0.869,0.795,0.784,0.749,0.838,0.886,0.814,(1.3223)+(-0.0666)Val+(-0.4130)Met+(0.0072)Lys+(0.2030)Ile+(0.1201)Phe;0.847,0.867,0.777,0.749,0.787,0.822,0.798,0.789,(2.9884)+(0.0396)Ser+(-0.0034)Gly+(-0.0881)Cit+(0.0673)Ile+(-0.1862)Trp;0.847,0.867,0.793,0.785,0.742,0.842,0.885,0.813,(5.8023)+(-0.0093)Ala+(0.0065)Pro+(-0.0413)Val+(0.1640)Ile+(-0.1274)Trp;0.847,0.870,0.797,0.784,0.753,0.840,0.890,0.817,(1.6808)+(0.0029)Tyr+(-0.0643)Val+(-0.3937)Met+(0.2016)Ile+(0.1191)Phe;0.847,0.867,0.790,0.766,0.787,0.825,0.833,0.803,(6.9596)+(-0.0849)His+(0.0213)Orn+(0.1093)Ile+(-0.0364)Leu+(-0.1148)Trp;0.847,0.868,0.777,0.767,0.742,0.798,0.860,0.792,(3.1475)+(-0.0442)Val+(0.0019)Orn+(0.1418)Ile+(0.0674)Phe+(-0.1576)Trp;0.847,0.868,0.807,0.799,0.801,0.833,0.823,0.814,(5.5384)+(0.0047)Gly+(-0.1092)His+(-0.0029)Ala+(0.1139)Phe+(-0.1121)Trp;0.847,0.868,0.769,0.742,0.783,0.820,0.777,0.781,(2.8745)+(0.0352)Ser+(-0.0945)Cit+(0.0018)Pro+(0.0668)Ile+(-0.1881)Trp;0.846,0.864,0.797,0.785,0.768,0.843,0.856,0.813,(5.0098)+(0.0034)Gln+(-0.0731)Cit+(-0.0343)Val+(0.1438)Ile+(-0.1518)Trp;0.846,0.866,0.800,0.780,0.793,0.833,0.841,0.812,(4.9920)+(0.0089)Gln+(-0.1208)His+(-0.0021)Lys+(0.0658)Ile+(-0.1231)Trp;0.846,0.871,0.803,0.806,0.826,0.780,0.765,0.794,(2.7528)+(0.0356)Thr+(0.0055)Pro+(-0.3554)Met+(0.1268)Phe+(-0.1599)Trp;0.846,0.865,0.790,0.773,0.763,0.834,0.861,0.808,(7.5781)+(-0.0265)Asn+(-0.0601)His+(-0.0320)Val+(0.1409)Ile+(-0.1047)Trp;0.846,0.870,0.769,0.749,0.729,0.870,0.831,0.795,(1.0687)+(0.0416)Ser+(0.0052)Pro+(-0.0540)Val+(-0.3541)Met+(0.1924)Ile;0.846,0.866,0.771,0.745,0.783,0.823,0.779,0.783,(2.8666)+(0.0360)Ser+(-0.0019)Thr+(-0.0920)Cit+(0.0692)Ile+(-0.1853)Trp;0.846,0.867,0.769,0.749,0.779,0.835,0.754,0.779,(5.1816)+(0.0357)Ser+(-0.1041)Hi

s+(0.0081)Pro+(0.0228)Orn+(-0.1051)Trp;0.846,0.875,0.818,0.825,0.837,0.790,0.776,0.807,(1.3985)+(0.0042)Gln+(0.0342)Thr+(-0.3609)Met+(0.1290)Phe+(-0.1631)Trp;0.846,0.865,0.800,0.780,0.793,0.830,0.842,0.811,(4.9481)+(0.0088)Gln+(-0.1220)His+(-0.0006)Pro+(0.0652)Ile+(-0.1243)Trp;0.846,0.872,0.812,0.797,0.814,0.831,0.835,0.819,(6.1235)+(-0.1075)His+(-0.0033)Ala+(0.0242)Orn+(0.0983)Phe+(-0.1125)Trp;0.846,0.871,0.781,0.769,0.782,0.832,0.778,0.790,(1.9545)+(0.0471)Ser+(-0.0102)Arg+(-0.2207)Met+(0.0790)Ile+(-0.1445)Trp;0.846,0.868,0.777,0.767,0.743,0.797,0.860,0.792,(3.1419)+(0.0001)Gly+(-0.0441)Val+(0.1421)Ile+(0.0685)Phe+(-0.1579)Trp;0.846,0.872,0.809,0.813,0.839,0.794,0.745,0.798,(3.4670)+(0.0437)Thr+(-0.0212)Arg+(-0.3325)Met+(0.1350)Phe+(-0.1614)Trp;0.846,0.864,0.777,0.765,0.772,0.847,0.771,0.789,(5.5415)+(0.0390)Ser+(-0.0928)His+(-0.0038)Ala+(0.0134)Pro+(-0.1009)Trp;0.846,0.868,0.793,0.781,0.757,0.851,0.857,0.812,(6.8609)+(-0.1106)Asn+(0.0195)Thr+(-0.0449)Val+(0.1578)Ile+(-0.1197)Trp;0.846,0.867,0.797,0.794,0.812,0.845,0.743,0.798,(4.7629)+(0.0422)Ser+(-0.0674)Cit+(0.0148)Pro+(-0.1676)Met+(-0.1375)Trp;0.846,0.871,0.812,0.801,0.804,0.825,0.846,0.819,(6.2031)+(-0.1008)His+(-0.0051)Ala+(0.0084)Pro+(0.1049)Phe+(-0.1155)Trp;0.846,0.871,0.791,0.760,0.793,0.812,0.853,0.804,(5.8089)+(-0.1094)His+(-0.0003)Lys+(0.0490)Ile+(0.0765)Phe+(-0.1292)Trp;0.846,0.868,0.806,0.794,0.775,0.852,0.873,0.823,(7.3801)+(-0.0502)Asn+(-0.0557)Cit+(-0.0383)Val+(0.1540)Ile+(-0.1244)Trp;0.846,0.872,0.766,0.732,0.761,0.857,0.803,0.788,(0.9924)+(0.0435)Ser+(0.0065)Gln+(-0.1410)His+(-0.2374)Met+(0.0812)Ile;0.846,0.868,0.803,0.788,0.825,0.833,0.778,0.806,(6.2234)+(0.0287)Thr+(-0.0748)Cit+(-0.2124)Met+(0.0711)Ile+(-0.1573)Trp;0.846,0.868,0.794,0.784,0.800,0.855,0.763,0.801,(6.1153)+(0.0390)Ser+(-0.0574)Asn+(-0.0881)His+(0.0316)Orn+(-0.0954)Trp;0.846,0.865,0.778,0.752,0.784,0.821,0.804,0.790,(7.6242)+(-0.1055)His+(0.0236)Thr+(-0.0154)Arg+

(0.0655)Ile+(-0.1294)Trp;0.845,0.868,0.819,0.808,0.794,0.867,0.867,0.834,(6.9151)+(-0.0080)Ala+(-0.0727)Cit+(0.1658)Ile+(-0.0604)Leu+(-0.1337)Trp;0.845,0.866,0.797,0.776,0.793,0.828,0.837,0.809,(4.9772)+(0.0083)Gln+(-0.1236)His+(0.0091)Orn+(0.0619)Ile+(-0.1244)Trp;0.845,0.864,0.772,0.745,0.773,0.820,0.808,0.787,(6.8157)+(0.0020)Gly+(-0.1097)His+(0.0165)Thr+(0.0657)Ile+(-0.1271)Trp;0.845,0.870,0.802,0.793,0.802,0.824,0.811,0.807,(5.6094)+(-0.0234)Asn+(0.0052)Gly+(-0.1077)His+(0.1101)Phe+(-0.1118)Trp;0.845,0.874,0.756,0.722,0.747,0.853,0.794,0.779,(2.3753)+(0.0486)Ser+(-0.1092)His+(-0.2200)Met+(0.1352)Ile+(-0.0375)Leu;0.845,0.870,0.776,0.760,0.804,0.808,0.738,0.778,(1.4025)+(0.0344)Ser+(-0.1335)Cit+(0.0376)Orn+(0.0875)Phe+(-0.1931)Trp;0.845,0.866,0.777,0.753,0.781,0.834,0.789,0.790,(3.6388)+(0.0339)Ser+(0.0061)Gln+(-0.1334)His+(0.0304)Leu+(-0.1185)Trp;0.845,0.867,0.796,0.784,0.763,0.845,0.861,0.813,(6.6863)+(-0.0889)Asn+(-0.0453)Val+(0.0264)Orn+(0.1540)Ile+(-0.1127)Trp;0.845,0.866,0.792,0.778,0.768,0.852,0.833,0.808,(3.0422)+(0.0431)Ser+(-0.0967)Asn+(-0.0070)Ala+(0.0731)Ile+(-0.1452)Trp;0.845,0.873,0.798,0.782,0.760,0.845,0.887,0.819,(2.1057)+(-0.0451)Cit+(-0.0624)Val+(-0.3664)Met+(0.1992)Ile+(0.1244)Phe;0.845,0.873,0.788,0.780,0.754,0.805,0.868,0.802,(
4.0341)+(-0.0241)Arg+(-0.0468)Val+(0.1522)Ile+(0.0796)Phe+(-0.1467)Trp;0.845,0.868,0.780,0.771,0.745,0.800,0.862,0.794,(3.2195)+(-0.0025)Pro+(-0.0441)Val+(0.1450)Ile+(0.0689)Phe+(-0.1565)Trp;0.845,0.871,0.808,0.798,0.778,0.845,0.872,0.823,(6.7746)+(-0.0029)Arg+(-0.0434)Val+(-0.1777)Met+(0.1757)Ile+(-0.1067)Trp;0.845,0.869,0.797,0.784,0.786,0.818,0.837,0.806,(3.8132)+(-0.0948)Cit+(0.1484)Ile+(-0.0725)Leu+(0.0887)Phe+(-0.1631)Trp;0.845,0.863,0.778,0.751,0.778,0.822,0.815,0.791,(7.1570)+(-0.1085)His+(0.0189)Thr+(-0.0022)Pro+(0.0670)Ile+(-0.1284)Trp;0.845,0.868,0.802,0.783,0.809,0.816,0.825,0.808,(5.8992)+(-0.1104)His

+(-0.0013)Val+(0.0232)Orn+(0.0950)Phe+(-0.1144)Trp;0.845,0.869,0.808,0.783,0.804,0.842,0.857,0.822,(0.3376)+(0.0125)Gln+(-0.1554)His+(-0.2899)Met+(0.0495)Ile+(0.1060)Phe;0.845,0.874,0.782,0.787,0.779,0.786,0.775,0.782,(0.7253)+(0.0330)Ser+(-0.0045)Val+(-0.0106)Lys+(0.0909)Phe+(-0.1634)Trp;0.845,0.866,0.799,0.780,0.793,0.829,0.842,0.811,(4.9295)+(0.0088)Gln+(-0.1225)His+(0.0010)Tyr+(0.0644)Ile+(-0.1249)Trp;0.845,0.867,0.826,0.834,0.821,0.862,0.788,0.826,(6.3848)+(0.0091)Gln+(-0.1032)His+(0.0254)Thr+(-0.1390)Met+(-0.1028)Trp;0.845,0.869,0.796,0.785,0.752,0.838,0.885,0.815,(1.8514)+(-0.0043)Arg+(-0.0640)Val+(-0.3803)Met+(0.2011)Ile+(0.1203)Phe;0.845,0.868,0.768,0.749,0.728,0.870,0.829,0.794,(1.1701)+(0.0412)Ser+(-0.0004)Gln+(-0.0537)Val+(-0.3378)Met+(0.1989)Ile;0.844,0.867,0.771,0.748,0.786,0.822,0.767,0.781,(3.0548)+(0.0373)Ser+(-0.0855)Cit+(-0.0107)Arg+(0.0704)Ile+(-0.1831)Trp;0.844,0.867,0.771,0.748,0.780,0.823,0.777,0.782,(3.0541)+(0.0350)Ser+(-0.0906)Cit+(-0.0082)Tyr+(0.0696)Ile+(-0.1823)Trp;0.844,0.866,0.795,0.782,0.798,0.818,0.806,0.801,(5.3435)+(0.0047)Gly+(-0.1141)His+(0.0013)Val+(0.1068)Phe+(-0.1161)Trp;0.844,0.864,0.799,0.795,0.748,0.848,0.885,0.819,(5.1600)+(0.0018)Gln+(-0.0082)Ala+(-0.0402)Val+(0.1654)Ile+(-0.1319)Trp;0.844,0.863,0.786,0.779,0.782,0.841,0.772,0.793,(4.3034)+(0.0309)Ser+(0.0058)Gln+(-0.1140)His+(0.0087)Pro+(-0.1054)Trp;0.844,0.872,0.797,0.776,0.806,0.813,0.823,0.805,(5.8455)+(-0.1113)His+(0.0028)Pro+(0.0209)Orn+(0.0911)Phe+(-0.1174)Trp;0.844,0.864,0.779,0.769,0.742,0.868,0.816,0.799,(4.6930)+(0.0388)Thr+(-0.0209)Arg+(-0.0621)Val+(-0.3755)Met+(0.2126)Ile;0.844,0.863,0.818,0.818,0.795,0.846,0.843,0.826,(4.1525)+(0.0058)Gln+(-0.1921)Met+(0.1541)Ile+(-0.0630)Leu+(-0.1318)Trp;0.844,0.871,0.806,0.788,0.815,0.819,0.826,0.812,(6.1775)+(-0.0173)Asn+(-0.1068)His+(0.0234)Orn+(0.0932)Phe+(-0.1140)Trp;0.844,0.864,0.789,0.769,0.768,0.835,0.856,0.807,(7.4382)+(-0.0538)His+(-0.0426)Cit+(-0

.0298)Val+(0.1413)Ile+(-0.1163)Trp;0.844,0.869,0.797,0.773,0.806,0.814,0.827,0.805,(5.9839)+(-0.1147)His+(0.0211)Orn+(0.0082)Leu+(0.0860)Phe+(-0.1206)Trp;0.844,0.862,0.781,0.763,0.756,0.826,0.850,0.799,(7.0123)+(-0.0716)His+(-0.0299)Val+(0.0030)Lys+(0.1351)Ile+(-0.1116)Trp;0.844,0.870,0.820,0.807,0.831,0.816,0.835,0.822,(5.9503)+(-0.0909)His+(0.0076)Pro+(-0.1544)Met+(0.1267)Phe+(-0.1089)Trp;0.844,0.869,0.797,0.797,0.803,0.870,0.736,0.801,(6.6325)+(0.0326)Ser+(-0.0883)His+(0.0217)Thr+(-0.1177)Met+(-0.0996)Trp;0.844,0.866,0.789,0.770,0.794,0.815,0.810,0.797,(5.3328)+(0.0049)Gly+(-0.1181)His+(0.0117)Leu+(0.0980)Phe+(-0.1213)Trp;0.844,0.866,0.787,0.778,0.801,0.813,0.763,0.789,(1.5888)+(0.0405)Ser+(-0.1012)Cit+(-0.0120)Lys+(0.1117)Phe+(-0.1734)Trp;0.844,0.870,0.769,0.774,0.761,0.771,0.773,0.770,(0.5303)+(0.0286)Ser+(0.0037)Pro+(-0.0083)Val+(0.0826)Phe+(-0.1723)Trp;0.844,0.862,0.777,0.759,0.752,0.826,0.842,0.795,(6.8024)+(0.0025)Gly+(-0.0731)His+(-0.0289)Val+(0.1359)Ile+(-0.1095)Trp;0.844,0.872,0.791,0.769,0.786,0.808,0.847,0.803,(5.8616)+(-0.1067)His+(-0.0234)Tyr+(0.0507)Ile+(0.0884)Phe+(-0.1223)Trp;0.844,0.869,0.791,0.776,0.794,0.812,0.807,0.798,(5.2275)+(0.0045)Gly+(-0.1130)His+(0.0038)Pro+(0.1050)Phe+(-0.1173)Trp;0.844,0.864,0.766,0.742,0.778,0.828,0.760,0.777,(4.9372)+(0.0404)Ser+(-0.1098)His+(0.0071)Pro+(0.0094)Val+(-0.1130)Trp;0.844,0.863,0.798,0.793,0.749,0.847,0.880,0.817,(5.8850)+(-0.0079)Ala+(-0.0339)Val+(0.1837)Ile+(-0.0225)Leu+(-0.1250)Trp;0.844,0.864,0.782,0.769,0.740,0.868,0.842,0.805,(4.1080)+(-0.0009)Gly+(0.0318)Thr+(-0.0609)Val+(-0.3887)Met+(0.2091)Ile;0.844,0.862,0.797,0.790,0.746,0.845,0.885,0.817,(5.8246)+(0.0001)Gly+(-0.0079)Ala+(-0.0409)Val+(0.1684)Ile+(-0.1274)Trp;0.843,0.873,0.772,0.771,0.774,0.777,0.767,0.772,(0.5577)+(0.0340)Ser+(0.0029)Pro+(-0.0130)Lys+(0.0823)Phe+(-0.1689)Trp;0.843,0.869,0.796,0.765,0.802,0.816,0.849,0.808,(5.8944)+(-0.0902)His+(-0.0596)Cit+(0.0529)Ile+(0.0888

)Phe+(-0.1419)Trp;0.843,0.865,0.788,0.785,0.771,0.793,0.830,0.795,(2.4444)+(0.0014)Gln+(0.1361)Ile+(-0.0727)Leu+(0.0618)Phe+(-0.1637)Trp;0.843,0.869,0.770,0.749,0.732,0.872,0.831,0.796,(1.0368)+(0.0389)Ser+(-0.0554)Val+(-0.3465)Met+(0.0147)Orn+(0.1974)Ile;0.843,0.868,0.764,0.752,0.732,0.836,0.807,0.782,(3.3627)+(0.0345)Ser+(-0.0306)Arg+(-0.0422)Val+(0.1619)Ile+(-0.1365)Trp;0.843,0.867,0.802,0.786,0.806,0.808,0.831,0.808,(5.9692)+(-0.1056)His+(0.0043)Pro+(-0.0007)Val+(0.1009)Phe+(-0.1178)Trp;0.843,0.866,0.793,0.790,0.796,0.860,0.748,0.799,(6.8049)+(0.0364)Ser+(-0.0634)Asn+(-0.0875)His+(0.0161)Thr+(-0.1007)Trp;0.843,0.867,0.769,0.752,0.728,0.871,0.828,0.795,(1.1465)+(0.0402)Ser+(-0.0505)Val+(-0.3344)Met+(0.2088)Ile+(-0.0126)Leu;0.843,0.864,0.786,0.767,0.776,0.829,0.829,0.800,(6.7440)+(0.0033)Gly+(-0.0826)His+(0.1149)Ile+(-0.0351)Leu+(-0.1139)Trp;0.843,0.869,0.744,0.704,0.751,0.842,0.760,0.764,(2.4589)+(0.0453)Ser+(-0.1332)His+(0.0194)Thr+(-0.2815)Met+(0.0858)Ile;0.843,0.868,0.792,0.763,0.796,0.811,0.848,0.804,(5.9818)+(-0.1072)His+(-0.0054)Arg+(0.0488)Ile+(0.0778)Phe+(-0.1286)Trp;0.843,0.869,0.810,0.813,0.834,0.788,0.766,0.800,(2.9228)+(0.0373)Thr+(-0.3383)Met+(-0.0015)Lys+(0.1302)Phe+(-0.1594)Trp;0.843,0.867,0.777,0.761,0.788,0.845,0.745,0.785,(5.6444)+(0.0411)Ser+(-0.0838)His+(-0.0436)Cit+(0.0114)Pro+(-0.1123)Trp;0.843,0.863,0.783,0.765,0.757,0.826,0.853,0.800,(7.1319)+(-0.0683)His+(-0.0290)Val+(0.1394)Ile+(-0.0033)Leu+(-0.1093)Trp;0.843,0.864,0.784,0.773,0.741,0.869,0.840,0.806,(3.4199)+(0.0016)Gln+(0.0299)Thr+(-0.0605)Val+(-0.3972)Met+(0.2078)Ile;0.843,0.865,0.797,0.770,0.792,0.840,0.845,0.812,(7.5858)+(-0.0939)His+(-0.0053)Ala+(0.0246)Orn+(0.0683)Ile+(-0.1170)Trp;0.843,0.868,0.765,0.747,0.727,0.821,0.852,0.787,(2.9424)+(0.0377)Ser+(-0.0081)Gly+(-0.0403)Val+(0.1478)Ile+(-0.1465)Trp;0.843,0.869,0.810,0.814,0.836,0.783,0.767,0.800,(2.9214)+(0.0390)Thr+(-0.3447)Met+(-0.0088)Orn+(0.1352)Phe+(-0.1619)T

rp;0.843,0.862,0.769,0.754,0.775,0.833,0.749,0.778,(5.4560)+(0.0360)Ser+(-0.1008)His+(0.0058)Thr+(0.0089)Pro+(-0.1062)Trp;0.843,0.872,0.820,0.805,0.832,0.828,0.830,0.824,(5.9637)+(-0.0978)His+(-0.1348)Met+(0.0235)Orn+(0.1190)Phe+(-0.1053)Trp;0.843,0.868,0.811,0.813,0.835,0.785,0.772,0.801,(3.0600)+(-0.0012)Gly+(0.0376)Thr+(-0.3393)Met+(0.1285)Phe+(-0.1611)Trp;0.843,0.865,0.781,0.769,0.740,0.868,0.837,0.804,(3.9818)+(0.0315)Thr+(-0.0617)Val+(-0.3917)Met+(0.2069)Ile+(0.0031)Leu;0.843,0.869,0.807,0.792,0.812,0.810,0.834,0.812,(6.1903)+(-0.0139)Asn+(-0.1024)His+(0.0043)Pro+(0.1000)Phe+(-0.1170)Trp;0.843,0.864,0.775,0.750,0.773,0.819,0.813,0.789,(7.1777)+(-0.1059)His+(0.0192)Thr+(-0.0103)Tyr+(0.0660)Ile+(-0.1253)Trp;0.843,0.862,0.779,0.761,0.781,0.834,0.784,0.790,(5.4771)+(0.0464)Ser+(-0.0055)Gly+(-0.0947)His+(0.0102)Pro+(-0.1064)Trp;0.843,0.870,0.817,0.822,0.835,0.804,0.779,0.810,(3.0565)+(0.0377)Thr+(-0.0034)Ala+(-0.3221)Met+(0.1329)Phe+(-0.1581)Trp;0.843,0.867,0.758,0.722,0.747,0.858,0.804,0.783,(2.3643)+(0.0512)Ser+(-0.1217)His+(-0.0048)Ala+(-0.1969)Met+(0.0913)Ile;0.843,0.862,0.801,0.798,0.813,0.846,0.749,0.801,(5.6160)+(0.0437)Ser+(-0.0935)Asn+(-0.0730)Cit+(0.0112)Pro+(-0.1430)Trp;0.842,0.863,0.782,0.764,0.756,0.825,0.853,0.800,(7.1331)+(-0.0692)His+(0.0007)Pro+(-0.0299)Val+(0.1362)Ile+(-0.1096)Trp;0.842,0.861,0.749,0.719,0.713,0.857,0.820,0.778,(2.5742)+(0.0381)Ser+(-0.1228)His+(-0.0078)Ala+(0.1231)Ile+(-0.0375)Leu;0.842,0.863,0.764,0.743,0.755,0.830,0.794,0.780,(-0.1369)+(0.0498)Ser+(-0.1350)Asn+(0.0079)Gln+(-0.1650)His+(0.1092)Phe;0.842,0.867,0.822,0.810,0.830,0.820,0.839,0.825,(5.7085)+(-0.1035)His+(-0.1797)Met+(0.0155)Lys+(0.1314)Phe+(-0.1162)Trp;0.842,0.865,0.783,0.769,0.743,0.869,0.843,0.806,(3.8781)+(0.0307)Thr+(0.0106)Tyr+(-0.0620)Val+(-0.4045)Met+(0.2109)Ile;0.842,0.863,0.797,0.790,0.747,0.844,0.887,0.817,(5.7756)+(-0.0081)Ala+(0.0040)Tyr+(-0.0412)Val+(0.1686)Ile+(-0.1288)Trp;0.842,0.864,

0.788,0.783,0.769,0.792,0.838,0.796,(3.0017)+(-0.0082)Orn+(0.1396)Ile+(-0.0731)Leu+(0.0682)Phe+(-0.1611)Trp;0.842,0.867,0.788,0.773,0.793,0.839,0.781,0.797,(3.8453)+(0.0319)Ser+(0.0067)Gln+(-0.1298)His+(0.0124)Val+(-0.1139)Trp;0.842,0.862,0.816,0.812,0.783,0.853,0.871,0.830,(6.4323)+(-0.0301)Asn+(-0.0074)Ala+(0.1576)Ile+(-0.0648)Leu+(-0.1279)Trp;0.842,0.872,0.754,0.732,0.755,0.780,0.789,0.764,(0.1745)+(0.0368)Ser+(-0.0193)Lys+(0.0535)Ile+(0.0622)Phe+(-0.1768)Trp;0.842,0.869,0.799,0.778,0.807,0.812,0.824,0.805,(5.8104)+(-0.1138)His+(0.0211)Orn+(0.0032)Lys+(0.0916)Phe+(-0.1185)Trp;0.842,0.865,0.801,0.779,0.796,0.840,0.842,0.814,(7.4489)+(-0.0565)His+(-0.0487)Cit+(0.1248)Ile+(-0.0405)Leu+(-0.1218)Trp;0.842,0.863,0.732,0.691,0.707,0.841,0.814,0.763,(0.3984)+(0.0459)Ser+(-0.1614)His+(-0.0082)Ala+(0.0530)Ile+(0.0721)Phe;0.842,0.861,0.814,0.813,0.776,0.847,0.870,0.826,(4.5139)+(0.0033)Gln+(-0.0088)Ala+(0.1614)Ile+(-0.0674)Leu+(-0.1422)Trp;0.842,0.864,0.812,0.808,0.770,0.856,0.877,0.828,(5.5895)+(-0.1022)Asn+(0.0050)Gln+(-0.0414)Val+(0.1491)Ile+(-0.1184)Trp;0.842,0.863,0.797,0.791,0.746,0.843,0.885,0.817,(5.9269)+(-0.0078)Ala+(-0.0408)Val+(-0.0012)Lys+(0.1688)Ile+(-0.1260)Trp;0.842,0.866,0.784,0.770,0.759,0.838,0.836,0.801,(5.7728)+(0.0033)Gly+(-0.0710)Cit+(-0.0357)Val+(0.1497)Ile+(-0.1443)Trp;0.842,0.865,0.798,0.777,0.805,0.805,0.833,0.805,(6.0405)+(-0.1096)His+(0.0032)Pro+(0.0087)Leu+(0.0923)Phe+(-0.1226)Trp;0.842,0.869,0.771,0.753,0.729,0.873,0.832,0.797,(1.0276)+(0.0402)Ser+(-0.0543)Val+(-0.3464)Met+(0.0019)Lys+(0.1993)Ile;0.842,0.864,0.793,0.787,0.791,0.851,0.771,0.800,(4.5463)+(0.0276)Ser+(0.0055)Gln+(-0.1146)His+(0.0227)Orn+(-0.1014)Trp;0.842,0.863,0.807,0.797,0.795,0.843,0.834,0.817,(4.3528)+(0.0051)Gln+(-0.0857)Cit+(0.1474)Ile+(-0.0597)Leu+(-0.1622)Trp;0.842,0.868,0.809,0.812,0.833,0.786,0.764,0.799,(2.8512)+(0.0368)Thr+(-0.3412)Met+(0.0003)Leu+(0.1292)Phe+(-

0.1603)Trp;0.842,0.871,0.802,0.805,0.786,0.824,0.810,0.806,(0.9425)+(0.0339)Ser+(-0.0060)Ala+(-0.0095)Lys+(0.0938)Phe+(-0.1583)Trp;0.842,0.861,0.784,0.768,0.759,0.827,0.850,0.801,(7.5613)+(-0.0635)His+(-0.0100)Arg+(-0.0319)Val+(0.1431)Ile+(-0.1070)Trp;0.842,0.863,0.790,0.767,0.779,0.828,0.848,0.806,(3.5472)+(-0.0966)His+(-0.2448)Met+(0.1396)Ile+(-0.0679)Leu+(0.1198)Phe;0.842,0.864,0.757,0.740,0.704,0.844,0.847,0.784,(0.1178)+(0.0538)Ser+(-0.2418)Asn+(-0.0632)Val+(0.1711)Ile+(0.0924)Phe;0.842,0.864,0.780,0.768,0.738,0.868,0.836,0.802,(3.9980)+(0.0309)Thr+(0.0019)Pro+(-0.0607)Val+(-0.3927)Met+(0.2063)Ile;0.841,0.861,0.800,0.776,0.788,0.837,0.860,0.815,(7.7416)+(-0.0848)His+(-0.0061)Ala+(0.0055)Pro+(0.0701)Ile+(-0.1173)Trp;0.841,0.875,0.755,0.741,0.730,0.826,0.794,0.773,(-4.6699)+(0.0485)Ser+(-0.4198)Met+(0.1849)Ile+(-0.0969)Leu+(0.1273)Phe;0.841,0.864,0.779,0.766,0.739,0.866,0.835,0.801,(3.8673)+(0.0291)Thr+(-0.0613)Val+(-0.3877)Met+(0.0100)Orn+(0.2069)Ile;0.841,0.862,0.768,0.752,0.773,0.830,0.757,0.778,(5.1701)+(0.0378)Ser+(-0.1015)His+(0.0095)Pro+(0.0044)Lys+(-0.1078)Trp;0.841,0.867,0.791,0.777,0.794,0.813,0.807,0.798,(5.1654)+(0.0045)Gly+(-0.1166)His+(0.0048)Lys+(0.1051)Phe+(-0.1185)Trp;0.841,0.863,0.817,0.822,0.809,0.871,0.784,0.821,(4.6510)+(0.0307)Ser+(0.0077)Gln+(-0.1003)His+(-0.0823)Met+(-0.0935)Trp;0.841,0.863,0.783,0.789,0.757,0.786,0.819,0.788,(3.2162)+(-0.0448)Tyr+(0.1451)Ile+(-0.0768)Leu+(0.0901)Phe+(-0.1432)Trp;0.841,0.863,0.793,0.773,0.783,0.827,0.842,0.806,(6.9307)+(-0.0806)His+(0.0056)Lys+(0.1158)Ile+(-0.0396)Leu+(-0.1183)Trp;0.841,0.857,0.744,0.716,0.701,0.853,0.835,0.776,(2.7083)+(0.0355)Ser+(-0.1092)His+(-0.0072)Ala+(-0.0287)Val+(0.1350)Ile;0.841,0.860,0.808,0.802,0.777,0.841,0.862,0.821,(5.5758)+(-0.0085)Ala+(0.0087)Orn+(0.1587)Ile+(-0.0668)Leu+(-0.1358)Trp;0.841,0.872,0.778,0.777,0.779,0.784,0.773,0.778,(0.5921)+(0.0342)Ser+(-0.0010)Thr+(-0.0120)Lys+(0.0846)Phe+(-0.1670)Trp;0.841

,0.865,0.812,0.801,0.814,0.818,0.835,0.817,(6.3114)+(-0.0122)Asn+(-0.1024)His+(0.0001)Val+(0.1038)Phe+(-0.1148)Trp;0.841,0.865,0.797,0.794,0.798,0.823,0.785,0.800,(1.4781)+(0.0371)Ser+(-0.0056)Ala+(-0.0966)Cit+(0.1101)Phe+(-0.1729)Trp;0.841,0.865,0.805,0.799,0.830,0.863,0.726,0.805,(4.9671)+(0.0345)Ser+(-0.1031)Cit+(-0.1267)Met+(0.0516)Orn+(-0.1406)Trp;0.841,0.865,0.777,0.750,0.791,0.842,0.770,0.788,(4.7050)+(0.0485)Ser+(-0.1037)His+(-0.1221)Met+(0.0373)Leu+(-0.1046)Trp;0.841,0.860,0.793,0.771,0.781,0.844,0.838,0.808,(7.2067)+(0.0042)Gly+(-0.0916)His+(-0.0049)Ala+(0.0769)Ile+(-0.1150)Trp;0.841,0.862,0.775,0.745,0.781,0.822,0.808,0.789,(6.7244)+(0.0036)Gly+(-0.1056)His+(0.0207)Orn+(0.0623)Ile+(-0.1191)Trp;0.841,0.869,0.794,0.783,0.802,0.863,0.755,0.801,(5.7621)+(0.0369)Ser+(-0.0900)His+(-0.0803)Met+(0.0328)Orn+(-0.0935)Trp;0.841,0.864,0.789,0.784,0.772,0.792,0.834,0.795,(3.0006)+(-0.0004)Gly+(0.1367)Ile+(-0.0728)Leu+(0.0635)Phe+(-0.1602)Trp;0.841,0.861,0.807,0.802,0.774,0.842,0.862,0.820,(5.5329)+(0.0060)Thr+(-0.0088)Ala+(0.1587)Ile+(-0.0653)Leu+(-0.1407)Trp;0.841,0.866,0.791,0.784,0.774,0.797,0.837,0.798,(3.1718)+(-0.0046)Lys+(0.1362)Ile+(-0.0701)Leu+(0.0666)Phe+(-0.1571)Trp;0.841,0.862,0.755,0.721,0.770,0.819,0.770,0.770,(4.5639)+(0.0420)Ser+(-0.1169)His+(0.0058)Pro+(0.0279)Leu+(-0.1185)Trp;0.841,0.867,0.770,0.753,0.732,0.874,0.821,0.795,(1.2964)+(0.0435)Ser+(-0.0124)Arg+(-0.0532)Val+(-0.3173)Met+(0.1973)Ile;0.841,0.862,0.797,0.778,0.786,0.829,0.844,0.809,(7.2783)+(-0.0045)Asn+(-0.0750)His+(0.1162)Ile+(-0.0377)Leu+(-0.1140)Trp;0.841,0.860,0.827,0.832,0.820,0.856,0.809,0.829,(6.6683)+(-0.0745)Asn+(0.0100)Gln+(-0.1045)His+(0.0195)Thr+(-0.1052)Trp;0.841,0.863,0.789,0.785,0.772,0.792,0.834,0.796,(2.9691)+(-0.0011)Thr+(0.1375)Ile+(-0.0731)Leu+(0.0641)Phe+(-0.1596)Trp;0.841,0.867,0.797,0.789,0.794,0.819,0.805,0.802,(5.4176)+(0.0044)Gly+(-0.1103)His+(-0.0124)Tyr+(0.1149)Phe+(-0.1109)Trp;0.841,0.861,0.710,

0.670,0.695,0.806,0.780,0.738,(-0.0955)+(0.0416)Ser+(-0.1564)His+(0.0973)Ile+(-0.0472)Leu+(0.0842)Phe;0.841,0.863,0.793,0.775,0.812,0.830,0.776,0.798,(8.2055)+(-0.1043)His+(0.0361)Thr+(-0.1690)Met+(0.0315)Leu+(-0.1133)Trp;0.841,0.861,0.778,0.770,0.793,0.798,0.755,0.779,(1.2062)+(0.0372)Ser+(-0.1014)Cit+(-0.0012)Val+(0.1004)Phe+(-0.1836)Trp;0.841,0.861,0.818,0.813,0.790,0.853,0.863,0.830,(6.4359)+(-0.0059)Ala+(-0.1153)Met+(0.1636)Ile+(-0.0631)Leu+(-0.1206)Trp;0.841,0.860,0.799,0.795,0.751,0.842,0.881,0.817,(6.4845)+(-0.0071)Ala+(-0.0138)Arg+(-0.0423)Val+(0.1736)Ile+(-0.1208)Trp;0.840,0.872,0.775,0.774,0.778,0.782,0.766,0.775,(0.7650)+(0.0347)Ser+(-0.0007)Gln+(-0.0120)Lys+(0.0850)Phe+(-0.1664)Trp;0.840,0.861,0.784,0.769,0.793,0.843,0.765,0.792,(5.6841)+(0.0439)Ser+(-0.0405)Asn+(-0.0995)His+(0.0114)Val+(-0.1066)Trp;0.840,0.859,0.824,0.812,0.811,0.855,0.864,0.835,(4.4518)+(0.0059)Gln+(-0.0089)Ala+(-0.0903)Cit+(0.0834)Ile+(-0.1711)Trp;0.840,0.861,0.797,0.803,0.796,0.838,0.755,0.798,(4.5033)+(0.0440)Ser+(-0.0631)Asn+(0.0128)Pro+(-0.1426)Met+(-0.1300)Trp;0.840,0.862,0.771,0.752,0.777,0.835,0.760,0.781,(5.2709)+(0.0388)Ser+(-0.1003)His+(0.0091)Pro+(0.0084)Tyr+(-0.1071)Trp;0.840,0.864,0.820,0.811,0.816,0.832,0.844,0.826,(6.4364)+(-0.0097)Asn+(-0.0996)His+(-0.0027)Ala+(0.1091)Phe+(-0.1121)Trp;0.840,0.865,0.824,0.813,0.830,0.825,0.837,0.826,(5.8680)+(0.0204)Asn+(-0.0965)His+(-0.1481)Met+(0.1331)Phe+(-0.1069)Trp;0.840,0.862,0.792,0.778,0.765,0.837,0.851,0.808,(6.2411)+(-0.0645)Cit+(-0.0291)Val+(0.1653)Ile+(-0.0230)Leu+(-0.1384)Trp;0.840,0.864,0.777,0.763,0.785,0.846,0.748,0.786,(5.6597)+(0.0315)Ser+(-0.1037)His+(0.0060)Thr+(0.0257)Orn+(-0.1021)Trp;0.840,0.862,0.783,0.764,0.758,0.826,0.854,0.800,(7.1151)+(-0.0699)His+(0.0030)Tyr+(-0.0300)Val+(0.1367)Ile+(-0.1105)Trp;0.840,0.872,0.777,0.777,0.780,0.782,0.767,0.776,(0.6201)+(0.0336)Ser+(0.0029)Orn+(-0.0127)Lys+(0.0829)Phe+(-0.1671)Trp;0.840,0.863,0.790,0.773,0.763

,0.834,0.856,0.807,(6.2080)+(-0.0652)Cit+(0.0018)Pro+(-0.0362)Val+(0.1471)Ile+(-0.1424)Trp;0.840,0.866,0.778,0.761,0.754,0.818,0.843,0.794,(0.3371)+(0.0314)Ser+(-0.0107)Ala+(0.0616)Ile+(0.0581)Phe+(-0.1770)Trp;0.840,0.866,0.785,0.765,0.808,0.863,0.732,0.792,(5.8784)+(0.0353)Ser+(-0.0826)His+(-0.0801)Cit+(0.0511)Orn+(-0.1109)Trp;0.840,0.861,0.785,0.773,0.797,0.798,0.782,0.788,(1.3657)+(0.0422)Ser+(-0.0040)Gly+(-0.0971)Cit+(0.0968)Phe+(-0.1853)Trp;0.840,0.865,0.802,0.806,0.796,0.816,0.790,0.802,(1.0802)+(0.0357)Ser+(-0.0058)Ala+(-0.0251)Arg+(0.0984)Phe+(-0.1628)Trp;0.840,0.862,0.767,0.752,0.786,0.790,0.750,0.770,(1.0793)+(0.0382)Ser+(-0.1087)Cit+(0.0062)Pro+(0.0936)Phe+(-0.1916)Trp;0.840,0.861,0.786,0.771,0.797,0.848,0.760,0.794,(5.3741)+(0.0443)Ser+(-0.1005)His+(0.0142)Val+(-0.0859)Met+(-0.1056)Trp;0.840,0.867,0.806,0.788,0.796,0.837,0.848,0.817,(7.5052)+(-0.0607)His+(-0.0974)Met+(0.1289)Ile+(-0.0415)Leu+(-0.1048)Trp;0.840,0.866,0.773,0.756,0.754,0.817,0.827,0.788,(2.5094)+(0.0377)Ser+(-0.0079)Gly+(0.1382)Ile+(-0.0612)Leu+(-0.1568)Trp;0.840,0.861,0.755,0.723,0.769,0.826,0.760,0.769,(4.8594)+(0.0381)Ser+(-0.1228)His+(0.0095)Thr+(0.0309)Leu+(-0.1201)Trp;0.840,0.858,0.807,0.802,0.809,0.830,0.801,0.810,(5.6057)+(0.0087)Gln+(-0.1282)His+(0.0126)Thr+(0.0092)Val+(-0.1183)Trp;0.840,0.867,0.781,0.788,0.772,0.783,0.782,0.781,(0.4737)+(0.0313)Ser+(-0.0049)Thr+(-0.0066)Val+(0.0857)Phe+(-0.1678)Trp;0.840,0.860,0.808,0.805,0.774,0.842,0.865,0.822,(5.6767)+(0.0004)Gly+(-0.0082)Ala+(0.1612)Ile+(-0.0664)Leu+(-0.1352)Trp;0.840,0.860,0.713,0.663,0.712,0.813,0.774,0.741,(0.6196)+(0.0501)Ser+(-0.1624)His+(-0.0189)Lys+(0.0480)Ile+(0.0815)Phe;0.840,0.864,0.817,0.806,0.814,0.831,0.844,0.824,(6.3232)+(-0.1036)His+(-0.0031)Ala+(0.0020)Val+(0.1063)Phe+(-0.1149)Trp;0.840,0.862,0.772,0.746,0.782,0.836,0.774,0.785,(5.1659)+(0.0469)Ser+(-0.0484)Asn+(-0.1053)His+(0.0308)Leu+(-0.1092)Trp;0.840,0.869,0.769,0.764,0.759,0.780,0.795,0.7

74,(0.7343)+(0.0284)Ser+(-0.0261)Val+(0.0399)Leu+(0.0793)Phe+(-0.1789)Trp;0.840,0.859,0.771,0.759,0.701,0.884,0.869,0.803,(2.7943)+(0.0442)Ser+(-0.1642)Asn+(-0.0076)Ala+(-0.0542)Val+(0.1886)Ile;0.840,0.866,0.799,0.782,0.805,0.805,0.829,0.805,(5.8148)+(-0.1098)His+(0.0037)Pro+(0.0045)Lys+(0.0968)Phe+(-0.1217)Trp;0.840,0.867,0.792,0.785,0.792,0.786,0.815,0.795,(1.1613)+(0.0454)Ser+(-0.0084)Gly+(-0.0129)Lys+(0.0809)Phe+(-0.1639)Trp;0.840,0.863,0.772,0.748,0.785,0.839,0.759,0.783,(5.0863)+(0.0372)Ser+(-0.1127)His+(0.0095)Val+(0.0210)Orn+(-0.1099)Trp;0.840,0.864,0.781,0.769,0.739,0.868,0.838,0.803,(3.9736)+(0.0310)Thr+(-0.0609)Val+(-0.3901)Met+(0.0005)Lys+(0.2090)Ile;0.840,0.868,0.799,0.787,0.802,0.813,0.817,0.805,(5.9557)+(-0.1088)His+(-0.0208)Tyr+(0.0252)Orn+(0.1025)Phe+(-0.1086)Trp;0.840,0.863,0.802,0.801,0.811,0.837,0.759,0.802,(8.5246)+(-0.0816)His+(0.0299)Thr+(0.0091)Pro+(-0.1462)Met+(-0.1040)Trp;0.840,0.861,0.769,0.748,0.782,0.832,0.749,0.778,(5.3080)+(0.0367)Ser+(-0.1142)His+(0.0081)Thr+(0.0113)Val+(-0.1134)Trp;0.839,0.868,0.805,0.811,0.829,0.780,0.757,0.794,(2.8611)+(0.0375)Thr+(-0.0088)Tyr+(-0.3324)Met+(0.1323)Phe+(-0.1585)Trp;0.839,0.859,0.795,0.794,0.790,0.849,0.766,0.800,(4.8057)+(0.0264)Ser+(0.0060)Gln+(-0.1135)His+(0.0072)Thr+(-0.1027)Trp;0.839,0.867,0.803,0.785,0.813,0.817,0.817,0.808,(6.2095)+(-0.1082)His+(-0.0088)Arg+(0.0250)Orn+(0.0942)Phe+(-0.1148)Trp;0.839,0.859,0.796,0.781,0.799,0.824,0.808,0.803,(5.4957)+(0.0082)Gln+(-0.1345)His+(0.0142)Thr+(0.0257)Leu+(-0.1245)Trp;0.839,0.859,0.811,0.791,0.803,0.839,0.860,0.823,(6.6272)+(-0.0102)Ala+(-0.0841)Cit+(0.0097)Pro+(0.0758)Ile+(-0.1590)Trp;0.839,0.865,0.774,0.788,0.759,0.780,0.766,0.773,(0.7017)+(0.0308)Ser+(-0.0402)Tyr+(-0.0062)Val+(0.1065)Phe+(-0.1593)Trp;0.839,0.870,0.775,0.783,0.768,0.786,0.762,0.775,(0.7200)+(0.0348)Ser+(-0.0372)Tyr+(-0.0101)Lys+(0.1043)Phe+(-0.1579)Trp;0.839,0.866,0.822,0.807,0.831,0.823,0.845,0.826,(6.2262)+(-0.097

1)His+(-0.1392)Met+(0.0123)Leu+(0.1203)Phe+(-0.1124)Trp;0.839,0.860,0.777,0.766,0.794,0.797,0.752,0.777,(1.2037)+(0.0365)Ser+(0.0016)Thr+(-0.1036)Cit+(0.0983)Phe+(-0.1869)Trp;0.839,0.861,0.784,0.772,0.787,0.853,0.758,0.793,(5.6504)+(0.0337)Ser+(-0.0986)His+(-0.0012)Ala+(0.0297)Orn+(-0.0976)Trp;0.839,0.859,0.800,0.797,0.810,0.844,0.754,0.801,(8.3138)+(-0.0901)His+(0.0265)Thr+(-0.1164)Met+(0.0293)Orn+(-0.1018)Trp;0.839,0.861,0.787,0.767,0.779,0.824,0.826,0.799,(3.1874)+(0.0523)Ser+(-0.1108)Asn+(-0.0064)Gly+(0.0563)Ile+(-0.1545)Trp;0.839,0.861,0.808,0.804,0.772,0.838,0.869,0.821,(5.7070)+(-0.0092)Ala+(0.0041)Pro+(0.1564)Ile+(-0.0655)Leu+(-0.1353)Trp;0.839,0.862,0.819,0.821,0.795,0.838,0.851,0.826,(4.6797)+(-0.0846)Asn+(0.0057)Gln+(0.1361)Ile+(-0.0630)Leu+(-0.1377)Trp;0.839,0.870,0.774,0.770,0.779,0.783,0.770,0.775,(0.5593)+(0.0345)Ser+(-0.0137)Lys+(0.0057)Leu+(0.0804)Phe+(-0.1704)Trp;0.839,0.861,0.808,0.812,0.830,0.868,0.711,0.805,(5.6920)+(0.0305)Ser+(0.0191)Thr+(-0.0661)Cit+(-0.1583)Met+(-0.1404)Trp;0.839,0.864,0.813,0.797,0.811,0.829,0.848,0.821,(6.3756)+(-0.1066)His+(-0.0036)Ala+(0.0131)Leu+(0.0982)Phe+(-0.1194)Trp;0.839,0.866,0.771,0.773,0.767,0.779,0.767,0.772,(0.9056)+(0.0312)Ser+(-0.0015)Gln+(-0.0072)Val+(0.0863)Phe+(-0.1680)Trp;0.839,0.865,0.809,0.795,0.811,0.814,0.835,0.814,(6.1932)+(-0.0219)Asn+(-0.1055)His+(0.0068)Lys+(0.0994)Phe+(-0.1188)Trp;0.839,0.860,0.760,0.741,0.781,0.806,0.733,0.765,(3.0702)+(0.0052)Gly+(-0.1550)His+(0.0402)Thr+(-0.3285)Met+(0.1510)Phe;0.839,0.866,0.826,0.817,0.834,0.826,0.837,0.828,(6.1890)+(-0.0932)His+(0.0010)Val+(-0.1324)Met+(0.1286)Phe+(-0.1073)Trp;0.839,0.863,0.777,0.778,0.784,0.793,0.749,0.776,(1.2181)+(0.0388)Ser+(-0.0977)Cit+(-0.0348)Tyr+(0.1182)Phe+(-0.1729)Trp;0.839,0.860,0.832,0.819,0.832,0.846,0.853,0.838,(4.8283)+(-0.0771)Asn+(0.0081)Gln+(-0.0874)Cit+(0.0611)Ile+(-0.1705)Trp;0.839,0.860,0.758,0.725,0.748,0.846,0.8

03,0.781,(1.7619)+(0.0411)Ser+(-0.1034)Asn+(0.0073)Gln+(-0.1508)His+(0.0564)Ile;0.839,0.866,0.829,0.820,0.834,0.829,0.841,0.831,(6.2250)+(-0.0917)His+(-0.0008)Ala+(-0.1269)Met+(0.1306)Phe+(-0.1058)Trp;0.839,0.868,0.790,0.798,0.795,0.798,0.755,0.786,(0.9884)+(0.0351)Ser+(-0.0275)Arg+(-0.0064)Val+(0.0986)Phe+(-0.1657)Trp;0.839,0.863,0.805,0.786,0.811,0.814,0.837,0.812,(6.2883)+(-0.0085)Asn+(-0.1075)His+(0.0098)Leu+(0.0945)Phe+(-0.1205)Trp;0.839,0.860,0.778,0.769,0.793,0.796,0.755,0.779,(1.1265)+(0.0368)Ser+(0.0003)Gln+(-0.1030)Cit+(0.0983)Phe+(-0.1858)Trp;0.839,0.861,0.775,0.755,0.792,0.812,0.763,0.781,(3.7720)+(-0.1417)His+(0.0435)Thr+(-0.0065)Val+(-0.3188)Met+(0.1536)Phe;0.839,0.861,0.799,0.793,0.759,0.842,0.870,0.816,(6.7432)+(-0.0799)Asn+(-0.0434)Val+(0.0048)Lys+(0.1535)Ile+(-0.1175)Trp;0.839,0.862,0.792,0.777,0.766,0.838,0.856,0.809,(6.4416)+(-0.0637)Cit+(-0.0358)Val+(-0.0030)Lys+(0.1505)Ile+(-0.1383)Trp;0.839,0.858,0.768,0.740,0.773,0.839,0.779,0.783,(4.8536)+(0.0424)Ser+(-0.1137)His+(-0.0024)Ala+(0.0334)Leu+(-0.1121)Trp;0.838,0.862,0.799,0.779,0.805,0.807,0.834,0.806,(6.0182)+(-0.1122)His+(0.0034)Lys+(0.0087)Leu+(0.0928)Phe+(-0.1234)Trp;0.838,0.861,0.799,0.799,0.795,0.831,0.784,0.802,(3.9779)+(0.0516)Ser+(-0.0079)Gly+(0.0136)Pro+(-0.1930)Met+(-0.1361)Trp;0.838,0.858,0.800,0.796,0.784,0.826,0.828,0.809,(6.0947)+(-0.0689)Asn+(0.0101)Thr+(0.1317)Ile+(-0.0599)Leu+(-0.1380)Trp;0.838,0.867,0.797,0.789,0.800,0.819,0.798,0.802,(5.5377)+(0.0051)Gly+(-0.1105)His+(-0.0078)Arg+(0.1117)Phe+(-0.1138)Trp;0.838,0.859,0.779,0.753,0.786,0.832,0.795,0.791,(6.9361)+(0.0066)Gly+(-0.0812)His+(-0.0565)Cit+(0.0747)Ile+(-0.1281)Trp;0.838,0.860,0.796,0.788,0.756,0.843,0.863,0.813,(6.5810)+(-0.0752)Asn+(0.0020)Gly+(-0.0425)Val+(0.1553)Ile+(-0.1145)Trp;0.838,0.864,0.758,0.724,0.773,0.832,0.767,0.774,(4.6576)+(0.0393)Ser+(-0.1201)His+(0.0186)Orn+(0.0283)Leu+(-0.1162)Trp;0.838,0.861,0.805,0.787,0.799,0.845,0.836,0.817,(6.13

34)+(0.0157)Thr+(-0.0090)Ala+(-0.0877)Cit+(0.0805)Ile+(-0.1702)Trp;0.838,0.867,0.828,0.817,0.834,0.828,0.842,0.830,(6.0233)+(-0.0934)His+(0.0044)Arg+(-0.1392)Met+(0.1305)Phe+(-0.1063)Trp;0.838,0.856,0.800,0.801,0.792,0.854,0.778,0.806,(4.6372)+(0.0287)Ser+(0.0066)Gln+(-0.1096)His+(-0.0003)Ala+(-0.0986)Trp;0.838,0.861,0.809,0.812,0.825,0.860,0.731,0.807,(6.4117)+(0.0367)Ser+(-0.1018)Asn+(0.0150)Thr+(-0.0719)Cit+(-0.1423)Trp;0.838,0.859,0.775,0.763,0.792,0.796,0.758,0.777,(1.1372)+(0.0373)Ser+(-0.1040)Cit+(0.0044)Leu+(0.0946)Phe+(-0.1889)Trp;0.838,0.856,0.797,0.796,0.790,0.849,0.777,0.803,(4.5000)+(0.0284)Ser+(0.0063)Gln+(-0.1127)His+(0.0036)Lys+(-0.1020)Trp;0.838,0.863,0.789,0.754,0.806,0.834,0.811,0.801,(7.4615)+(-0.0792)His+(-0.0744)Cit+(0.0440)Orn+(0.0588)Ile+(-0.1331)Trp;0.838,0.858,0.795,0.791,0.799,0.845,0.764,0.800,(4.9158)+(0.0340)Ser+(-0.0069)Ala+(-0.0819)Cit+(0.0161)Pro+(-0.1502)Trp;0.838,0.860,0.804,0.798,0.823,0.857,0.745,0.806,(5.1208)+(0.0279)Ser+(-0.0049)Ala+(-0.1163)Cit+(0.0553)Orn+(-0.1522)Trp;0.838,0.859,0.809,0.804,0.775,0.843,0.866,0.822,(5.6648)+(-0.0083)Ala+(0.0012)Lys+(0.1614)Ile+(-0.0672)Leu+(-0.1361)Trp;0.838,0.860,0.765,0.738,0.786,0.805,0.764,0.773,(3.5351)+(-0.1472)His+(0.0421)Thr+(0.0044)Pro+(-0.3312)Met+(0.1395)Phe;0.838,0.858,0.794,0.801,0.784,0.845,0.759,0.797,(3.9272)+(0.0395)Ser+(-0.0040)Ala+(0.0158)Pro+(-0.1752)Met+(-0.1296)Trp;0.838,0.859,0.785,0.791,0.793,0.830,0.715,0.783,(3.9761)+(0.0351)Ser+(0.0118)Thr+(0.0121)Pro+(-0.2238)Met+(-0.1405)Trp;0.838,0.862,0.803,0.788,0.805,0.810,0.830,0.808,(5.9047)+(-0.1097)His+(-0.0004)Val+(0.0053)Lys+(0.1006)Phe+(-0.1197)Trp;0.838,0.860,0.758,0.745,0.721,0.822,0.826,0.778,(2.6554)+(0.0286)Ser+(-0.0053)Thr+(-0.0394)Val+(0.1469)Ile+(-0.1444)Trp;0.838,0.860,0.748,0.733,0.738,0.814,0.761,0.761,(1.4773)+(0.0565)Ser+(-0.1003)Asn+(-0.1398)His+(-0.0417)Tyr+(0.1329)Phe;0.838,0.861,0.782,0.769,0.813,0.835,0.712,0.782,(4.3470)+(0.0287)Ser+

(-0.1176)Cit+(0.0065)Pro+(0.0444)Orn+(-0.1730)Trp;0.838,0.862,0.785,0.776,0.797,0.859,0.730,0.790,(6.3642)+(0.0341)Ser+(-0.0889)His+(0.0148)Thr+(-0.0437)Cit+(-0.1081)Trp;0.838,0.859,0.809,0.805,0.774,0.843,0.865,0.822,(5.8031)+(-0.0080)Ala+(-0.0034)Tyr+(0.1611)Ile+(-0.0663)Leu+(-0.1336)Trp;0.838,0.861,0.796,0.777,0.785,0.829,0.844,0.809,(7.2241)+(-0.0761)His+(-0.0008)Pro+(0.1173)Ile+(-0.0377)Leu+(-0.1143)Trp;0.838,0.860,0.798,0.791,0.759,0.841,0.867,0.815,(6.7483)+(-0.0663)Asn+(-0.0379)Val+(0.1642)Ile+(-0.0143)Leu+(-0.1148)Trp;0.838,0.863,0.769,0.762,0.755,0.830,0.771,0.779,(2.9382)+(0.0368)Ser+(-0.0333)Arg+(0.1656)Ile+(-0.0728)Leu+(-0.1443)Trp;0.838,0.865,0.742,0.699,0.746,0.840,0.775,0.765,(2.0907)+(0.0521)Ser+(-0.1257)His+(0.0046)Pro+(-0.2328)Met+(0.0777)Ile;0.838,0.864,0.805,0.792,0.812,0.869,0.777,0.813,(5.7357)+(0.0429)Ser+(-0.0886)His+(0.0434)Tyr+(-0.1235)Met+(-0.1056)Trp;0.838,0.861,0.795,0.782,0.788,0.838,0.812,0.805,(5.8910)+(0.0079)Thr+(-0.0789)Cit+(0.1401)Ile+(-0.0560)Leu+(-0.1570)Trp;0.838,0.858,0.754,0.731,0.744,0.831,0.783,0.772,(1.4808)+(0.0561)Ser+(-0.1006)Asn+(-0.1438)His+(-0.0040)Ala+(0.1163)Phe;0.838,0.861,0.833,0.843,0.834,0.870,0.777,0.831,(4.7807)+(0.0356)Ser+(-0.1080)Asn+(0.0061)Gln+(-0.0718)Cit+(-0.1379)Trp;0.838,0.868,0.776,0.782,0.769,0.776,0.772,0.775,(0.5930)+(0.0284)Ser+(-0.0075)Val+(0.0018)Orn+(0.0835)Phe+(-0.1706)Trp;0.838,0.858,0.749,0.713,0.729,0.855,0.813,0.777,(3.0658)+(0.0483)Ser+(-0.0650)Asn+(-0.1294)His+(-0.0067)Ala+(0.0732)Ile;0.838,0.860,0.798,0.792,0.795,0.851,0.784,0.805,(4.3885)+(0.0297)Ser+(0.0065)Gln+(-0.1178)His+(0.0184)Tyr+(-0.1066)Trp;0.838,0.861,0.756,0.744,0.722,0.819,0.816,0.775,(2.6900)+(0.0255)Ser+(-0.0338)Val+(0.1634)Ile+(-0.0219)Leu+(-0.1442)Trp;0.838,0.861,0.777,0.759,0.755,0.837,0.829,0.795,(2.3962)+(0.0360)Ser+(-0.0085)Ala+(-0.0126)Lys+(0.0819)Ile+(-0.1523)Trp;0.838,0.859,0.747,0.730,0.713,0.818,0.815,0.769,(3.3268)+(0.0305)Ser+(-0.0028)Gln+

(-0.0408)Val+(0.1518)Ile+(-0.1419)Trp;0.838,0.865,0.812,0.801,0.807,0.825,0.841,0.819,(6.0592)+(-0.1071)His+(-0.0032)Ala+(0.0064)Lys+(0.1055)Phe+(-0.1177)Trp;0.837,0.861,0.817,0.813,0.838,0.812,0.785,0.812,(5.7450)+(-0.0966)Asn+(0.0257)Thr+(-0.0935)Cit+(0.0969)Phe+(-0.1745)Trp;0.837,0.862,0.781,0.775,0.798,0.799,0.750,0.780,(1.3443)+(0.0390)Ser+(-0.0935)Cit+(-0.0119)Arg+(0.1024)Phe+(-0.1820)Trp;0.837,0.860,0.765,0.736,0.787,0.805,0.766,0.773,(3.6816)+(-0.1538)His+(0.0440)Thr+(-0.3332)Met+(0.0093)Leu+(0.1344)Phe;0.837,0.859,0.785,0.753,0.792,0.822,0.826,0.798,(7.2961)+(-0.0038)Asn+(-0.0997)His+(0.0230)Orn+(0.0591)Ile+(-0.1201)Trp;0.837,0.862,0.778,0.764,0.784,0.848,0.753,0.787,(5.4581)+(0.0334)Ser+(-0.1026)His+(0.0270)Orn+(0.0026)Lys+(-0.1014)Trp;0.837,0.866,0.784,0.788,0.792,0.796,0.750,0.782,(0.8799)+(0.0371)Ser+(-0.0245)Arg+(-0.0064)Lys+(0.0923)Phe+(-0.1684)Trp;0.837,0.859,0.783,0.752,0.791,0.822,0.823,0.797,(7.2552)+(-0.1007)His+(-0.0008)Pro+(0.0231)Orn+(0.0602)Ile+(-0.1203)Trp;0.837,0.861,0.795,0.777,0.784,0.827,0.843,0.808,(7.2264)+(-0.0758)His+(-0.0020)Tyr+(0.1165)Ile+(-0.0375)Leu+(-0.1138)Trp;0.837,0.859,0.796,0.792,0.795,0.854,0.768,0.802,(6.2045)+(0.0406)Ser+(-0.0598)Asn+(-0.0873)His+(0.0099)Lys+(-0.1010)Trp;0.837,0.867,0.799,0.790,0.798,0.800,0.825,0.803,(5.9842)+(-0.1029)His+(0.0056)Pro+(-0.0210)Tyr+(0.1094)Phe+(-0.1122)Trp;0.837,0.860,0.798,0.790,0.759,0.840,0.869,0.815,(6.8091)+(-0.0701)Asn+(0.0007)Pro+(-0.0425)Val+(0.1538)Ile+(-0.1154)Trp;0.837,0.856,0.746,0.718,0.710,0.853,0.820,0.775,(3.5963)+(0.0469)Ser+(-0.1172)Asn+(-0.0860)His+(-0.0373)Val+(0.1449)Ile;0.837,0.853,0.744,0.702,0.724,0.846,0.824,0.774,(2.5523)+(0.0472)Ser+(-0.0041)Gly+(-0.1411)His+(-0.0074)Ala+(0.0701)Ile;0.837,0.860,0.810,0.787,0.802,0.847,0.857,0.823,(8.1603)+(-0.0664)His+(-0.0056)Ala+(-0.0500)Cit+(0.0804)Ile+(-0.1226)Trp;0.837,0.861,0.792,0.787,0.774,0.801,0.835,0.800,(3.0744)+(-0.0054)Pro+(0.1457)Ile+(-0.0749)Leu

+(0.0653)Phe+(-0.1578)Trp;0.837,0.865,0.791,0.789,0.784,0.782,0.817,0.793,(1.0711)+(0.0395)Ser+(-0.0079)Gly+(-0.0069)Val+(0.0791)Phe+(-0.1679)Trp;0.837,0.865,0.782,0.756,0.777,0.852,0.810,0.799,(3.3365)+(0.0090)Gln+(-0.1482)His+(0.0263)Thr+(-0.2715)Met+(0.0705)Ile;0.837,0.865,0.743,0.701,0.747,0.843,0.774,0.766,(2.1487)+(0.0503)Ser+(-0.1300)His+(-0.2229)Met+(0.0131)Orn+(0.0794)Ile;0.837,0.864,0.797,0.800,0.779,0.816,0.811,0.802,(0.8296)+(0.0301)Ser+(-0.0062)Ala+(-0.0038)Val+(0.0911)Phe+(-0.1624)Trp;0.837,0.863,0.801,0.787,0.802,0.807,0.830,0.807,(6.2040)+(-0.1076)His+(-0.0163)Tyr+(0.0106)Leu+(0.1024)Phe+(-0.1165)Trp;0.837,0.859,0.783,0.752,0.791,0.822,0.824,0.797,(7.2009)+(-0.1014)His+(0.0223)Orn+(0.0009)Lys+(0.0590)Ile+(-0.1212)Trp;0.837,0.857,0.804,0.797,0.790,0.826,0.834,0.812,(5.9653)+(-0.0549)Asn+(0.0107)Orn+(0.1345)Ile+(-0.0628)Leu+(-0.1330)Trp;0.837,0.864,0.848,0.853,0.857,0.825,0.832,0.842,(1.8725)+(0.0083)Gln+(-0.0866)Cit+(-0.2105)Met+(0.1277)Phe+(-0.1573)Trp;0.837,0.859,0.768,0.757,0.745,0.819,0.809,0.782,(2.0945)+(0.0342)Ser+(-0.0131)Thr+(0.1494)Ile+(-0.0660)Leu+(-0.1462)Trp;0.837,0.863,0.774,0.761,0.784,0.836,0.743,0.781,(5.6800)+(0.0413)Ser+(-0.0935)His+(-0.0134)Arg+(0.0

111)Pro+(-0.1023)Trp;0.837,0.862,0.783,0.785,0.758,0.806,0.811,0.790,(0.7001)+(0.0305)Ser+(-0.0094)Ala+(0.0092)Pro+(0.0818)Phe+(-0.1685)Trp;0.837,0.861,0.779,0.762,0.789,0.845,0.757,0.788,(5.4274)+(0.0344)Ser+(-0.1034)His+(0.0098)Tyr+(0.0260)Orn+(-0.1030)Trp;0.837,0.865,0.799,0.774,0.821,0.827,0.797,0.805,(6.1430)+(-0.0899)His+(-0.0878)Cit+(0.0468)Orn+(0.1017)Phe+(-0.1338)Trp;0.837,0.859,0.807,0.807,0.805,0.864,0.772,0.812,(4.7423)+(0.0304)Ser+(0.0071)Gln+(-0.0988)His+(-0.0395)Cit+(-0.1025)Trp;0.837,0.858,0.809,0.806,0.798,0.855,0.806,0.816,(4.6378)+(0.0370)Ser+(-0.0061)Gly+(0.0069)Gln+(-0.1087)His+(-0.0992)Trp;0.837,0.860,0.782,0.770,0.793,0.851,0.742,0.789,(5.8736)+(0.0362)Ser+(-

0.0965)His+(-0.0143)Arg+(0.0327)Orn+(-0.0966)Trp;0.837,0.867,0.794,0.782,0.806,0.827,0.779,0.799,(5.3714)+(0.0071)Gly+(-0.0987)His+(-0.0633)Cit+(0.1242)Phe+(-0.1245)Trp;0.837,0.861,0.758,0.742,0.725,0.826,0.821,0.778,(3.0236)+(0.0296)Ser+(-0.0382)Val+(-0.0109)Lys+(0.1510)Ile+(-0.1367)Trp;0.837,0.861,0.794,0.776,0.797,0.841,0.803,0.804,(5.8082)+(-0.1006)Cit+(0.0364)Orn+(0.1334)Ile+(-0.0570)Leu+(-0.1536)Trp;0.837,0.856,0.749,0.714,0.725,0.855,0.818,0.778,(1.6773)+(0.0357)Ser+(0.0041)Gln+(-0.1533)His+(-0.0073)Ala+(0.0674)Ile;0.837,0.861,0.791,0.778,0.762,0.836,0.853,0.807,(6.3126)+(-0.0632)Cit+(-0.0038)Tyr+(-0.0360)Val+(0.1493)Ile+(-0.1398)Trp;0.837,0.860,0.798,0.787,0.802,0.856,0.776,0.805,(6.1522)+(0.0427)Ser+(-0.0541)Asn+(-0.0878)His+(0.0248)Tyr+(-0.1031)Trp;0.837,0.858,0.779,0.761,0.785,0.842,0.766,0.789,(5.3035)+(0.0406)Ser+(-0.1082)His+(-0.0020)Ala+(0.0132)Val+(-0.1081)Trp;0.837,0.858,0.817,0.808,0.841,0.822,0.787,0.815,(5.8160)+(-0.0610)Asn+(-0.1200)Cit+(0.0492)Orn+(0.0799)Phe+(-0.1658)Trp;0.837,0.858,0.800,0.777,0.790,0.838,0.855,0.815,(7.6477)+(-0.0892)His+(-0.0050)Ala+(0.0040)Lys+(0.0722)Ile+(-0.1189)Trp;0.837,0.860,0.772,0.752,0.720,0.839,0.888,0.800,(4.0385)+(-0.1011)His+(-0.0074)Ala+(-0.0378)Val+(0.1334)Ile+(0.0692)Phe;0.837,0.857,0.767,0.743,0.788,0.807,0.758,0.774,(3.5949)+(0.0109)Asn+(-0.1510)His+(0.0427)Thr+(-0.3299)Met+(0.1435)Phe;0.836,0.859,0.801,0.786,0.767,0.864,0.866,0.820,(3.9062)+(0.0086)Gln+(-0.0885)His+(-0.0366)Val+(-0.2431)Met+(0.1568)Ile;0.836,0.860,0.798,0.792,0.758,0.841,0.869,0.815,(6.8295)+(-0.0689)Asn+(-0.0013)Tyr+(-0.0423)Val+(0.1546)Ile+(-0.1150)Trp;0.836,0.861,0.788,0.769,0.795,0.847,0.784,0.799,(5.6626)+(0.0410)Ser+(-0.0052)Gly+(-0.0975)His+(0.0282)Orn+(-0.1002)Trp;0.836,0.862,0.814,0.802,0.807,0.849,0.837,0.824,(6.7957)+(-0.0595)Cit+(-0.1032)Met+(0.1502)Ile+(-0.0577)Leu+(-0.1294)Trp;0.836,0.859,0.795,0.787,0.826,0.850,0.715,0.794,(5.1544)+(0.0296)Ser+(-0.1162)Cit+

(0.0550)Orn+(-0.0091)Lys+(-0.1540)Trp;0.836,0.864,0.777,0.788,0.777,0.788,0.739,0.773,(0.8374)+(0.0368)Ser+(-0.0253)Arg+(-0.0352)Tyr+(0.1067)Phe+(-0.1624)Trp;0.836,0.862,0.747,0.705,0.748,0.841,0.790,0.771,(2.2299)+(0.0551)Ser+(-0.0027)Gly+(-0.1250)His+(-0.2167)Met+(0.0819)Ile;0.836,0.857,0.798,0.775,0.787,0.837,0.854,0.813,(7.6521)+(0.0100)Asn+(-0.0883)His+(-0.0050)Ala+(0.0751)Ile+(-0.1174)Trp;0.836,0.856,0.796,0.794,0.796,0.856,0.761,0.801,(6.4242)+(0.0413)Ser+(-0.0475)Asn+(-0.0818)His+(0.0008)Ala+(-0.0943)Trp;0.836,0.863,0.807,0.799,0.807,0.812,0.829,0.812,(6.1666)+(-0.1040)His+(-0.0159)Tyr+(0.0011)Val+(0.1104)Phe+(-0.1119)Trp;0.836,0.862,0.744,0.704,0.746,0.841,0.776,0.767,(2.2304)+(0.0516)Ser+(-0.0032)Asn+(-0.1260)His+(-0.2168)Met+(0.0828)Ile;0.836,0.861,0.798,0.778,0.797,0.816,0.843,0.808,(6.1340)+(-0.1059)His+(-0.0169)Val+(0.0371)Leu+(0.0958)Phe+(-0.1198)Trp;0.836,0.859,0.727,0.683,0.726,0.819,0.783,0.753,(0.6972)+(0.0567)Ser+(-0.1078)Asn+(-0.1546)His+(0.0374)Ile+(0.0874)Phe;0.836,0.867,0.804,0.789,0.810,0.807,0.828,0.809,(6.1896)+(-0.1036)His+(-0.0063)Arg+(0.0046)Pro+(0.1012)Phe+(-0.1178)Trp;0.836,0.857,0.761,0.730,0.773,0.829,0.767,0.775,(4.7888)+(0.0429)Ser+(-0.1149)His+(-0.0030)Lys+(0.0329)Leu+(-0.1133)Trp;0.836,0.856,0.741,0.704,0.721,0.850,0.805,0.770,(2.7431)+(0.0444)Ser+(-0.1337)His+(-0.0068)Ala+(-0.0103)Lys+(0.0775)Ile;0.836,0.858,0.823,0.816,0.818,0.841,0.837,0.828,(5.6315)+(-0.0415)Asn+(0.0113)Gln+(-0.1202)His+(0.0238)Leu+(-0.1121)Trp;0.836,0.858,0.766,0.734,0.777,0.825,0.786,0.780,(4.8354)+(0.0474)Ser+(-0.0039)Gly+(-0.1132)His+(0.0301)Leu+(-0.1152)Trp;0.836,0.858,0.775,0.763,0.768,0.824,0.790,0.786,(2.9262)+(0.0426)Ser+(-0.1183)Asn+(0.0019)Thr+(0.0568)Ile+(-0.1525)Trp;0.836,0.859,0.746,0.743,0.735,0.754,0.772,0.751,(0.2204)+(0.0300)Ser+(-0.0453)Tyr+(0.0431)Ile+(0.0733)Phe+(-0.1784)Trp;0.836,0.853,0.733,0.693,0.711,0.847,0.804,0.764,(2.3239)+(0.0416)Ser+(-0.1416)His+(-0.0085)Ala+(0

.0048)Pro+(0.0662)Ile;0.836,0.858,0.781,0.764,0.816,0.829,0.720,0.782,(4.0607)+(0.0293)Ser+(-0.1189)Cit+(0.0442)Orn+(0.0131)Leu+(-0.1796)Trp;0.836,0.858,0.772,0.752,0.783,0.833,0.757,0.781,(5.1417)+(0.0398)Ser+(-0.1106)His+(0.0116)Val+(0.0014)Lys+(-0.1108)Trp;0.836,0.866,0.774,0.776,0.785,0.782,0.740,0.771,(0.7520)+(0.0354)Ser+(-0.0298)Arg+(0.0039)Pro+(0.0845)Phe+(-0.1767)Trp;0.836,0.867,0.830,0.819,0.841,0.831,0.834,0.831,(6.4381)+(-0.0805)His+(-0.0461)Cit+(-0.1140)Met+(0.1369)Phe+(-0.1160)Trp;0.836,0.855,0.805,0.792,0.804,0.828,0.822,0.812,(5.2927)+(0.0097)Gln+(-0.1281)His+(0.0038)Pro+(0.0230)Leu+(-0.1183)Trp;0.836,0.859,0.767,0.737,0.785,0.835,0.759,0.779,(5.0180)+(0.0442)Ser+(-0.1030)His+(-0.0431)Cit+(0.0327)Leu+(-0.1219)Trp;0.836,0.859,0.810,0.798,0.798,0.847,0.837,0.820,(6.8411)+(-0.0275)Asn+(-0.0688)Cit+(0.1422)Ile+(-0.0573)Leu+(-0.1407)Trp;0.836,0.857,0.810,0.797,0.840,0.821,0.775,0.808,(5.2173)+(-0.1308)Cit+(0.0531)Orn+(-0.0108)Lys+(0.0845)Phe+(-0.1691)Trp;0.836,0.858,0.778,0.757,0.797,0.840,0.749,0.786,(5.4383)+(0.0429)Ser+(-0.0976)His+(-0.0461)Cit+(0.0137)Val+(-0.1174)Trp;0.836,0.861,0.755,0.742,0.720,0.819,0.821,0.775,(2.6934)+(0.0252)Ser+(-0.0404)Val+(0.0019)Orn+(0.1465)Ile+(-0.1475)Trp;0.836,0.861,0.757,0.767,0.747,0.757,0.751,0.756,(0.4712)+(0.0306)Ser+(0.0045)Pro+(-0.0462)Tyr+(0.0940)Phe+(-0.1686)Trp;0.836,0.861,0.828,0.815,0.833,0.845,0.841,0.833,(4.2268)+(0.0073)Gln+(-0.0769)Cit+(-0.1531)Met+(0.0713)Ile+(-0.1615)Trp;0.836,0.860,0.792,0.778,0.764,0.835,0.854,0.808,(6.4710)+(-0.0584)Cit+(-0.0062)Arg+(-0.0371)Val+(0.1517)Ile+(-0.1379)Trp;0.836,0.857,0.781,0.760,0.758,0.826,0.850,0.799,(2.2434)+(0.0401)Ser+(-0.0064)Gly+(-0.0089)Ala+(0.0723)Ile+(-0.1644)Trp;0.836,0.858,0.802,0.796,0.817,0.835,0.764,0.803,(8.5805)+(-0.0949)His+(0.0312)Thr+(0.0090)Val+(-0.1267)Met+(-0.1104)Trp;0.835,0.854,0.811,0.805,0.810,0.829,0.814,0.814,(5.3912)+(0.0098)Gln+(-0.1233)His+(0.0048)Pro+(0.0081)Val+(-0.113

8)Trp;0.835,0.857,0.807,0.785,0.813,0.845,0.823,0.817,(6.4274)+(-0.00
87)Ala+(-0.1126)Cit+(0.0444)Orn+(0.0681)Ile+(-0.1613)Trp;0.835,0.859,
0.758,0.745,0.720,0.821,0.822,0.777,(2.7562)+(0.0256)Ser+(-0.0021)Pro
+(-0.0401)Val+(0.1495)Ile+(-0.1468)Trp;0.835,0.858,0.769,0.746,0.790,
0.808,0.760,0.776,(3.7813)+(-0.1485)His+(0.0432)Thr+(-0.3192)Met+(-0.
0009)Lys+(0.1427)Phe;0.835,0.854,0.712,0.671,0.688,0.812,0.798,0.742,
(0.3972)+(0.0389)Ser+(-0.1431)His+(-0.0300)Val+(0.1026)Ile+(0.0746)Ph
e;0.835,0.861,0.804,0.795,0.799,0.837,0.812,0.811,(0.5281)+(0.0045)Gl
y+(0.0117)Gln+(-0.1589)His+(-0.2478)Met+(0.1340)Phe;0.835,0.858,0.798
,0.793,0.759,0.838,0.866,0.814,(7.0272)+(-0.0553)Asn+(-0.0105)Arg+(-0
.0431)Val+(0.1582)Ile+(-0.1144)Trp;0.835,0.862,0.744,0.703,0.746,0.84
3,0.776,0.767,(2.2500)+(0.0519)Ser+(-0.1252)His+(-0.2132)Met+(-0.0022
)Lys+(0.0841)Ile;0.835,0.858,0.799,0.786,0.825,0.840,0.750,0.800,(4.7
567)+(0.0342)Ser+(-0.0049)Gly+(-0.1101)Cit+(0.0477)Orn+(-0.1651)Trp;0
.835,0.861,0.776,0.762,0.767,0.831,0.794,0.788,(2.9411)+(0.0443)Ser+(
-0.1031)Asn+(-0.0063)Lys+(0.0614)Ile+(-0.1475)Trp;0.835,0.860,0.822,0
.812,0.850,0.821,0.789,0.818,(4.7476)+(-0.1096)Cit+(-0.1534)Met+(0.04
51)Orn+(0.1071)Phe+(-0.1580)Trp;0.835,0.862,0.818,0.800,0.833,0.808,0
.839,0.820,(4.3447)+(-0.0798)Cit+(-0.1878)Met+(0.0571)Ile+(0.1016)Phe
+(-0.1636)Trp;0.835,0.860,0.797,0.780,0.787,0.826,0.842,0.808,(7.4901
)+(-0.0715)His+(-0.0076)Arg+(0.1211)Ile+(-0.0406)Leu+(-0.1130)Trp;0.8
35,0.860,0.787,0.778,0.775,0.831,0.802,0.797,(2.3450)+(0.0410)Ser+(-0
.1302)Asn+(0.0028)Gln+(0.0560)Ile+(-0.1535)Trp;0.835,0.864,0.819,0.81
0,0.817,0.830,0.842,0.825,(6.4364)+(-0.1006)His+(-0.0027)Ala+(-0.0043
)Arg+(0.1101)Phe+(-0.1126)Trp;0.835,0.853,0.804,0.805,0.800,0.833,0.7
93,0.808,(5.8642)+(0.0081)Gln+(-0.1156)His+(0.0115)Thr+(0.0056)Pro+(-
0.1100)Trp;0.835,0.859,0.783,0.753,0.790,0.821,0.822,0.796,(7.3004)+(
-0.0994)His+(-0.0064)Tyr+(0.0241)Orn+(0.0602)Ile+(-0.1182)Trp;0.835,0

.858,0.780,0.766,0.736,0.840,0.868,0.802,(3.9444)+(-0.1111)His+(-0.0080)Ala+(0.1256)Ile+(-0.0605)Leu+(0.0767)Phe;0.835,0.855,0.776,0.751,0.776,0.818,0.815,0.790,(6.7829)+(0.0041)Gly+(-0.1014)His+(0.0027)Lys+(0.0661)Ile+(-0.1203)Trp;0.835,0.864,0.813,0.803,0.814,0.819,0.833,0.817,(6.4001)+(-0.0088)Asn+(-0.1017)His+(-0.0040)Arg+(0.1051)Phe+(-0.1145)Trp;0.835,0.863,0.743,0.697,0.750,0.845,0.779,0.768,(1.8629)+(0.0533)Ser+(-0.1288)His+(0.0153)Tyr+(-0.2469)Met+(0.0828)Ile;0.835,0.859,0.757,0.746,0.720,0.821,0.817,0.776,(2.9850)+(0.0253)Ser+(-0.0116)Tyr+(-0.0391)Val+(0.1467)Ile+(-0.1425)Trp;0.835,0.858,0.803,0.788,0.806,0.829,0.819,0.810,(5.3682)+(0.0089)Gln+(-0.1297)His+(0.0177)Orn+(0.0224)Leu+(-0.1172)Trp;0.835,0.861,0.823,0.815,0.820,0.847,0.836,0.830,(5.2818)+(0.0113)Gln+(-0.1189)His+(-0.0905)Met+(0.0280)Leu+(-0.1087)Trp;0.835,0.857,0.780,0.774,0.783,0.850,0.741,0.787,(6.0754)+(0.0325)Ser+(-0.0980)His+(0.0115)Thr+(-0.0006)Ala+(-0.1013)Trp;0.835,0.858,0.760,0.725,0.774,0.827,0.773,0.775,(4.5979)+(0.0423)Ser+(-0.1197)His+(0.0107)Tyr+(0.0304)Leu+(-0.1194)Trp;0.835,0.856,0.769,0.747,0.795,0.807,0.744,0.773,(4.0631)+(-0.1410)His+(0.0444)Thr+(-0.0391)Cit+(-0.3201)Met+(0.1445)Phe;0.835,0.859,0.803,0.777,0.794,0.844,0.861,0.819,(7.7254)+(-0.0880)His+(-0.0054)Ala+(0.0112)Tyr+(0.0735)Ile+(-0.1203)Trp;0.835,0.859,0.808,0.802,0.792,0.833,0.836,0.816,(5.7225)+(-0.1756)Met+(0.0096)Lys+(0.1560)Ile+(-0.0678)Leu+(-0.1310)Trp;0.835,0.856,0.805,0.801,0.786,0.824,0.841,0.813,(5.9709)+(-0.0575)Asn+(0.0049)Lys+(0.1382)Ile+(-0.0653)Leu+(-0.1359)Trp;0.835,0.858,0.814,0.797,0.805,0.829,0.864,0.824,(4.5122)+(-0.0098)Ala+(-0.0955)Cit+(0.0694)Ile+(0.0819)Phe+(-0.1746)Trp;0.835,0.854,0.780,0.756,0.779,0.821,0.815,0.793,(6.9932)+(-0.0068)Asn+(0.0043)Gly+(-0.0974)His+(0.0676)Ile+(-0.1174)Trp;0.835,0.857,0.815,0.822,0.815,0.8

46,0.777,0.815,(6.3762)+(0.0099)Gln+(-0.1149)His+(0.0198)Thr+(-0.0226

)Arg+(-0.1070)Trp;0.835,0.858,0.779,0.766,0.786,0.846,0.753,0.788,(5.7701)+(0.0341)Ser+(-0.1027)His+(0.0087)Thr+(0.0142)Tyr+(-0.1067)Trp;0.835,0.862,0.749,0.709,0.757,0.847,0.770,0.770,(2.4373)+(0.0519)Ser+(-0.1171)His+(-0.0367)Cit+(-0.2143)Met+(0.0836)Ile;0.835,0.862,0.771,0.747,0.762,0.839,0.805,0.788,(5.8746)+(-0.1093)His+(0.0280)Thr+(-0.2397)Met+(0.1242)Ile+(-0.0393)Leu;0.835,0.862,0.810,0.797,0.812,0.817,0.831,0.814,(6.2983)+(-0.1040)His+(-0.0049)Arg+(0.0003)Val+(0.1047)Phe+(-0.1156)Trp;0.835,0.860,0.765,0.749,0.780,0.795,0.754,0.769,(3.8792)+(-0.1465)His+(0.0440)Thr+(-0.0252)Tyr+(-0.2917)Met+(0.1498)Phe;0.835,0.857,0.825,0.825,0.820,0.850,0.815,0.828,(6.1084)+(-0.0514)Asn+(0.0102)Gln+(-0.1051)His+(0.0262)Orn+(-0.0990)Trp;0.835,0.856,0.819,0.821,0.818,0.853,0.789,0.820,(6.2948)+(0.0085)Gln+(-0.1025)His+(0.0162)Thr+(-0.0419)Cit+(-0.1122)Trp;0.835,0.855,0.778,0.753,0.777,0.820,0.814,0.791,(6.8950)+(0.0041)Gly+(-0.0991)His+(0.0002)Pro+(0.0675)Ile+(-0.1184)Trp;0.835,0.864,0.779,0.782,0.791,0.785,0.739,0.774,(0.8903)+(0.0340)Ser+(0.0028)Thr+(-0.0299)Arg+(0.0873)Phe+(-0.1762)Trp;0.835,0.864,0.812,0.805,0.810,0.816,0.832,0.816,(6.3077)+(-0.0099)Asn+(-0.1005)His+(-0.0147)Tyr+(0.1118)Phe+(-0.1100)Trp;0.835,0.855,0.815,0.805,0.809,0.842,0.835,0.823,(5.4955)+(0.0101)Gln+(-0.1250)His+(-0.0025)Ala+(0.0271)Leu+(-0.1150)Trp;0.835,0.863,0.797,0.796,0.783,0.803,0.828,0.802,(3.8841)+(-0.0257)Arg+(0.1507)Ile+(-0.0801)Leu+(0.0764)Phe+(-0.1498)Trp;0.835,0.856,0.758,0.752,0.722,0.792,0.822,0.772,(3.8116)+(-0.1113)His+(-0.0575)Tyr+(0.1212)Ile+(-0.0621)Leu+(0.1043)Phe;0.835,0.863,0.769,0.769,0.765,0.768,0.778,0.770,(0.1287)+(0.0334)Ser+(-0.0089)Thr+(0.0032)Pro+(0.0723)Phe+(-0.1757)Trp;0.834,0.855,0.808,0.794,0.809,0.831,0.828,0.815,(5.2806)+(0.0099)Gln+(-0.1310)His+(0.0084)Tyr+(0.0244)Leu+(-0.1200)Trp;0.834,0.864,0.782,0.786,0.792,0.788,0.746,0.778,(0.7582)+(0.0349)Ser+(0.0003)Gln+(-0.0286)Arg+(0.0876)Phe+(-0.1746)Trp

;0.834,0.855,0.828,0.828,0.823,0.845,0.828,0.831,(5.7744)+(-0.0402)As
n+(0.0115)Gln+(-0.1156)His+(0.0087)Val+(-0.1082)Trp;0.834,0.857,0.775
,0.762,0.768,0.822,0.790,0.786,(2.8450)+(0.0431)Ser+(-0.1174)Asn+(0.0
037)Orn+(0.0559)Ile+(-0.1516)Trp;0.834,0.855,0.804,0.801,0.805,0.838,
0.788,0.808,(5.9097)+(0.0074)Gln+(-0.1174)His+(0.0109)Thr+(0.0212)Orn
+(-0.1079)Trp;0.834,0.857,0.812,0.810,0.780,0.847,0.857,0.823,(6.4039
)+(-0.0074)Ala+(-0.0143)Arg+(0.1669)Ile+(-0.0691)Leu+(-0.1289)Trp;0.8
34,0.858,0.780,0.753,0.757,0.853,0.845,0.802,(6.0008)+(-0.0680)His+(-
0.0443)Val+(-0.2154)Met+(0.0319)Orn+(0.1652)Ile;0.834,0.858,0.772,0.7
48,0.787,0.834,0.762,0.783,(5.0582)+(0.0403)Ser+(-0.1125)His+(0.0111)
Tyr+(0.0112)Val+(-0.1140)Trp;0.834,0.857,0.771,0.755,0.745,0.827,0.82
9,0.789,(1.9987)+(0.0307)Ser+(-0.0105)Ala+(0.0052)Pro+(0.0690)Ile+(-0
.1643)Trp;0.834,0.855,0.800,0.806,0.783,0.852,0.782,0.806,(4.7920)+(0
.0402)Ser+(-0.1002)Asn+(-0.0053)Ala+(0.0126)Pro+(-0.1285)Trp;0.834,0.
864,0.758,0.746,0.763,0.777,0.763,0.762,(0.2560)+(0.0371)Ser+(-0.0324
)Arg+(0.0466)Ile+(0.0640)Phe+(-0.1870)Trp;0.834,0.862,0.786,0.796,0.7
68,0.802,0.789,0.789,(0.7804)+(0.0314)Ser+(-0.0053)Ala+(-0.0308)Tyr+(
0.1004)Phe+(-0.1587)Trp;0.834,0.857,0.776,0.763,0.768,0.823,0.793,0.7
86,(2.8662)+(0.0433)Ser+(-0.1155)Asn+(0.0002)Pro+(0.0569)Ile+(-0.1517
)Trp;0.834,0.863,0.815,0.808,0.809,0.826,0.838,0.820,(6.2866)+(-0.101
0)His+(-0.0023)Ala+(-0.0105)Tyr+(0.1136)Phe+(-0.1100)Trp;0.834,0.857,
0.780,0.758,0.789,0.832,0.780,0.790,(5.2972)+(0.0463)Ser+(-0.0044)Gly
+(-0.1061)His+(0.0114)Val+(-0.1104)Trp;0.834,0.854,0.824,0.827,0.815,
0.843,0.821,0.826,(6.0846)+(-0.0511)Asn+(0.0111)Gln+(-0.1037)His+(0.0
074)Pro+(-0.1015)Trp;0.834,0.857,0.807,0.808,0.815,0.845,0.763,0.808,
(8.4232)+(-0.0889)His+(0.0286)Thr+(-0.1383)Met+(0.0107)Lys+(-0.1073)T
rp;0.834,0.857,0.787,0.776,0.789,0.844,0.772,0.795,(6.1584)+(0.0403)S
er+(-0.0059)Gly+(-0.0968)His+(0.0125)Thr+(-0.1041)Trp;0.834,0.867,0.8

29,0.817,0.839,0.828,0.841,0.831,(6.1609)+(-0.0923)His+(0.0091)Tyr+(-0.1446)Met+(0.1280)Phe+(-0.1086)Trp;0.834,0.856,0.793,0.790,0.797,0.855,0.751,0.798,(6.0532)+(0.0393)Ser+(-0.0843)His+(0.0015)Ala+(-0.0646)Met+(-0.0937)Trp;0.834,0.856,0.737,0.700,0.723,0.843,0.787,0.763,(2.9855)+(0.0450)Ser+(-0.0753)Asn+(-0.1200)His+(0.1075)Ile+(-0.0352)Leu;0.834,0.858,0.772,0.749,0.791,0.811,0.766,0.779,(3.8070)+(-0.1472)His+(0.0427)Thr+(-0.0010)Ala+(-0.3145)Met+(0.1425)Phe;0.834,0.855,0.818,0.824,0.825,0.866,0.754,0.817,(6.0981)+(0.0409)Ser+(-0.0646)Asn+(-0.0595)Cit+(-0.0494)Met+(-0.1279)Trp;0.834,0.860,0.781,0.786,0.769,0.769,0.799,0.781,(1.0416)+(0.0442)Ser+(-0.0093)Gly+(-0.0493)Tyr+(0.0961)Phe+(-0.1599)Trp;0.834,0.856,0.816,0.802,0.820,0.841,0.828,0.823,(5.4112)+(0.0107)Gln+(-0.1154)His+(-0.0441)Cit+(0.0276)Leu+(-0.1240)Trp;0.834,0.854,0.805,0.793,0.803,0.833,0.818,0.812,(5.2571)+(0.0014)Gly+(0.0096)Gln+(-0.1293)His+(0.0256)Leu+(-0.1169)Trp;0.834,0.858,0.801,0.801,0.799,0.864,0.763,0.807,(6.5157)+(0.0412)Ser+(-0.0383)Asn+(-0.0781)His+(-0.0266)Met+(-0.0920)Trp;0.834,0.857,0.789,0.778,0.781,0.838,0.799,0.799,(5.6014)+(0.0039)Gly+(-0.0810)Cit+(0.1473)Ile+(-0.0584)Leu+(-0.1511)Trp;0.834,0.864,0.765,0.765,0.767,0.761,0.763,0.764,(0.3763)+(0.0284)Ser+(0.0019)Pro+(-0.0028)Leu+(0.0717)Phe+(-0.1793)Trp;0.834,0.856,0.788,0.777,0.820,0.838,0.713,0.787,(4.4635)+(0.0281)Ser+(-0.1163)Cit+(0.0021)Val+(0.0469)Orn+(-0.1693)Trp;0.834,0.856,0.785,0.790,0.786,0.824,0.737,0.784,(3.4856)+(0.0391)Ser+(0.0130)Pro+(-0.2101)Met+(0.0050)Lys+(-0.1397)Trp;0.834,0.864,0.780,0.784,0.792,0.785,0.741,0.776,(0.8341)+(0.0348)Ser+(-0.0295)Arg+(0.0057)Orn+(0.0848)Phe+(-0.1742)Trp;0.834,0.859,0.759,0.746,0.744,0.811,0.789,0.773,(2.5260)+(0.0280)Ser+(-0.0012)Gln+(0.1392)Ile+(-0.0619)Leu+(-0.1538)Trp;0.834,0.860,0.803,0.800,0.809,0.867,0.756,0.808,(6.8008)+(0.0427)Ser+(-0.0467)Asn+(-0.0693)His+(-0.0361)Cit+(-0.0968)Trp;0.834,0.858,0.781,0.776,0.790

,0.850,0.725,0.786,(6.4636)+(0.0339)Ser+(-0.0968)His+(0.0160)Thr+(-0.0156)Arg+(-0.1008)Trp;0.834,0.861,0.816,0.805,0.829,0.855,0.789,0.819,(6.0505)+(0.0083)Gln+(-0.0940)His+(-0.0750)Cit+(0.0473)Orn+(-0.1128)Trp;0.834,0.856,0.810,0.803,0.810,0.834,0.809,0.814,(5.4773)+(0.0091)Gln+(-0.1243)His+(0.0075)Val+(0.0191)Orn+(-0.1117)Trp;0.834,0.860,0.797,0.794,0.798,0.857,0.762,0.803,(5.8329)+(0.0377)Ser+(-0.0886)His+(-0.0872)Met+(0.0111)Lys+(-0.0997)Trp;0.834,0.856,0.784,0.771,0.796,0.825,0.765,0.789,(7.6576)+(-0.1007)His+(0.0151)Thr+(0.0045)Pro+(0.0265)Orn+(-0.1095)Trp;0.834,0.853,0.746,0.723,0.742,0.819,0.767,0.763,(1.4510)+(0.0562)Ser+(-0.1134)Asn+(-0.1398)His+(-0.0069)Val+(0.1234)Phe;0.834,0.856,0.797,0.789,0.808,0.837,0.769,0.801,(8.4086)+(-0.0405)Asn+(-0.0923)His+(0.0202)Thr+(0.0292)Orn+(-0.1055)Trp;0.834,0.860,0.795,0.765,0.803,0.833,0.830,0.807,(7.5089)+(-0.0875)His+(-0.0918)Met+(0.0247)Orn+(0.0655)Ile+(-0.1122)Trp;0.834,0.861,0.794,0.795,0.779,0.812,0.809,0.799,(0.7069)+(0.0310)Ser+(-0.0018)Thr+(-0.0066)Ala+(0.0860)Phe+(-0.1648)Trp;0.833,0.861,0.791,0.792,0.777,0.811,0.805,0.796,(0.8998)+(0.0312)Ser+(-0.0007)Gln+(-0.0067)Ala+(0.0862)Phe+(-0.1646)Trp;0.833,0.854,0.803,0.788,0.796,0.846,0.825,0.814,(5.8717)+(0.0050)Gly+(-0.0082)Ala+(-0.0879)Cit+(0.0847)Ile+(-0.1598)Trp;0.833,0.858,0.776,0.768,0.781,0.841,0.742,0.783,(5.8008)+(0.0325)Ser+(-0.1019)His+(0.0095)Thr+(0.0042)Lys+(-0.1047)Trp;0.833,0.858,0.767,0.741,0.788,0.808,0.760,0.774,(3.6706)+(-0.1497)His+(0.0417)Thr+(-0.3173)Met+(0.0068)Orn+(0.1390)Phe;0.833,0.857,0.801,0.779,0.791,0.838,0.855,0.816,(7.8182)+(-0.0855)His+(-0.0049)Ala+(-0.0001)Arg+(0.0743)Ile+(-0.1162)Trp;0.833,0.857,0.763,0.759,0.742,0.811,0.784,0.774,(2.7522)+(0.0258)Ser+(-0.0197)Tyr+(0.1409)Ile+(-0.0612)Leu+(-0.1469)Trp;0.833,0.861,0.825,0.832,0.830,0.805,0.807,0.819,(5.0511)+(-0.1150)Asn+(0.0219)Thr+(-0.0109)Val+(0.0952)Phe+(-0.1475)Trp;0.833,0.856,0.804,0.799,0.804,0.831,0.796,0.

808,(5.6424)+(0.0083)Gln+(-0.1156)His+(0.0056)Pro+(0.0217)Orn+(-0.1060)Trp;0.833,0.852,0.816,0.820,0.801,0.844,0.816,0.820,(5.9383)+(0.0095)Gln+(-0.1071)His+(-0.0035)Ala+(0.0102)Pro+(-0.1036)Trp;0.833,0.854,0.802,0.798,0.784,0.825,0.832,0.810,(5.9061)+(-0.0527)Asn+(0.0015)Gly+(0.1384)Ile+(-0.0627)Leu+(-0.1329)Trp;0.833,0.858,0.806,0.811,0.799,0.858,0.769,0.809,(4.7084)+(0.0305)Ser+(0.0083)Gln+(-0.1091)His+(-0.0175)Arg+(-0.0952)Trp;0.833,0.861,0.848,0.854,0.849,0.831,0.842,0.844,(3.4802)+(-0.0912)Asn+(0.0082)Gln+(-0.0940)Cit+(0.0930)Phe+(-0.1645)Trp;0.833,0.852,0.835,0.842,0.825,0.856,0.823,0.836,(6.2295)+(-0.0477)Asn+(0.0114)Gln+(-0.1009)His+(0.0000)Ala+(-0.0967)Trp;0.833,0.855,0.800,0.788,0.789,0.836,0.827,0.810,(6.2079)+(-0.0731)Cit+(-0.0002)Lys+(0.1444)Ile+(-0.0582)Leu+(-0.1484)Trp;0.833,0.855,0.811,0.815,0.818,0.850,0.760,0.811,(9.0694)+(-0.0182)Asn+(-0.0802)His+(0.0315)Thr+(-0.1008)Met+(-0.1024)Trp;0.833,0.856,0.709,0.677,0.695,0.797,0.761,0.732,(0.4772)+(0.0440)Ser+(-0.1605)His+(-0.0508)Tyr+(0.0418)Ile+(0.0947)Phe;0.833,0.853,0.743,0.716,0.743,0.817,0.760,0.759,(1.4785)+(0.0568)Ser+(-0.0953)Asn+(-0.1464)His+(-0.0073)Lys+(0.1153)Phe;0.833,0.860,0.823,0.821,0.822,0.800,0.846,0.822,(1.3630)+(0.0058)Gln+(-0.2772)Met+(0.0522)Ile+(0.0893)Phe+(-0.1578)Trp;0.833,0.854,0.736,0.702,0.741,0.814,0.759,0.754,(1.1891)+(0.0543)Ser+(-0.1079)Asn+(-0.1514)His+(0.0135)Orn+(0.1050)Phe;0.833,0.857,0.805,0.797,0.793,0.834,0.832,0.814,(5.8845)+(-0.1580)Met+(0.0123)Orn+(0.1493)Ile+(-0.0624)Leu+(-0.1247)Trp;0.833,0.860,0.769,0.767,0.770,0.773,0.767,0.770,(0.5229)+(0.0339)Ser+(-0.0012)Gln+(-0.0063)Thr+(0.0757)Phe+(-0.1727)Trp;0.833,0.854,0.835,0.835,0.829,0.857,0.832,0.838,(6.1025)+(-0.0527)Asn+(0.0115)Gln+(-0.1073)His+(0.0189)Tyr+(-0.1042)Trp;0.833,0.851,0.813,0.816,0.806,0.841,0.799,0.816,(6.1403)+(-0.0013)Gly+(0.0084)Gln+(-0.1139)His+(0.0144)Thr+(-0.1079)Trp;0.833,0.852,0.833,0.840,0.823,0.856,0.818,0.834,(6.1843)+(

-0.0489)Asn+(0.0009)Gly+(0.0113)Gln+(-0.1011)His+(-0.0966)Trp;0.833,0.852,0.814,0.820,0.803,0.848,0.798,0.817,(6.1629)+(0.0082)Gln+(-0.1119)His+(0.0145)Thr+(-0.0015)Ala+(-0.1062)Trp;0.833,0.852,0.734,0.693,0.728,0.834,0.780,0.759,(1.7701)+(0.0375)Ser+(0.0049)Gln+(-0.1560)His+(-0.0138)Lys+(0.0618)Ile;0.833,0.859,0.767,0.778,0.760,0.765,0.755,0.765,(0.5264)+(0.0312)Ser+(-0.0009)Thr+(-0.0416)Tyr+(0.0962)Phe+(-0.1659)Trp;0.833,0.855,0.767,0.746,0.792,0.801,0.744,0.771,(4.1746)+(-0.1459)His+(0.0474)Thr+(-0.0148)
Arg+(-0.3173)Met+(0.1432)Phe;0.833,0.864,0.782,0.787,0.791,0.787,0.746,0.778,(0.8241)+(0.0353)Ser+(-0.0283)Arg+(-0.0010)Leu+(0.0888)Phe+(-0.1734)Trp;0.833,0.861,0.851,0.863,0.852,0.811,0.846,0.843,(2.0143)+(-0.0455)Asn+(0.0076)Gln+(-0.2109)Met+(0.1098)Phe+(-0.1455)Trp;0.833,0.858,0.753,0.735,0.750,0.763,0.800,0.762,(-0.2670)+(0.0354)Ser+(-0.0117)Thr+(0.0449)Ile+(0.0506)Phe+(-0.1851)Trp;0.833,0.853,0.735,0.695,0.715,0.848,0.803,0.765,(2.4034)+(0.0400)Ser+(-0.1449)His+(-0.0075)Ala+(0.0107)Orn+(0.0674)Ile;0.833,0.858,0.767,0.757,0.749,0.818,0.794,0.780,(2.3886)+(0.0260)Ser+(-0.0043)Pro+(0.1463)Ile+(-0.0635)Leu+(-0.1544)Trp;0.833,0.851,0.737,0.698,0.716,0.845,0.806,0.766,(2.3985)+(0.0421)Ser+(-0.1410)His+(-0.0019)Thr+(-0.0073)Ala+(0.0711)Ile;0.833,0.855,0.802,0.785,0.817,0.827,0.798,0.807,(6.8197)+(-0.0640)Asn+(0.0185)Thr+(-0.0822)Cit+(0.0586)Ile+(-0.1711)Trp;0.833,0.852,0.788,0.761,0.788,0.817,0.836,0.800,(7.4498)+(0.0024)Asn+(-0.0934)His+(0.0006)Pro+(0.0646)Ile+(-0.1203)Trp;0.833,0.856,0.777,0.764,0.758,0.834,0.808,0.791,(2.4332)+(0.0363)Ser+(-0.0083)Ala+(-0.0212)Arg+(0.0774)Ile+(-0.1588)Trp;0.833,0.856,0.806,0.800,0.791,0.832,0.838,0.815,(6.1523)+(-0.0018)Asn+(-0.1480)Met+(0.1518)Ile+(-0.0617)Leu+(-0.1242)Trp;0.833,0.852,0.789,0.764,0.811,0.799,0.800,0.794,(4.1847)+(-0.1230)Cit+(0.0350)Orn+(0.0417)Ile+(0.0580)Phe+(-0.1910)Trp;0.833,0.851,0.782,0.775,0.783,0.8

45,0.756,0.790,(5.6569)+(0.0358)Ser+(-0.0970)His+(-0.0003)Ala+(0.0065)Lys+(-0.1012)Trp;0.833,0.852,0.796,0.793,0.793,0.836,0.778,0.800,(8.2732)+(-0.0891)His+(0.0192)Thr+(-0.0038)Ala+(0.0093)Pro+(-0.1075)Trp;0.832,0.858,0.763,0.772,0.757,0.766,0.749,0.761,(0.7787)+(0.0326)Ser+(-0.0012)Gln+(-0.0416)Tyr+(0.0974)Phe+(-0.1643)Trp;0.832,0.854,0.759,0.730,0.766,0.828,0.772,0.774,(4.8383)+(0.0416)Ser+(-0.1123)His+(-0.0134)Val+(0.0519)Leu+(-0.1130)Trp;0.832,0.860,0.743,0.704,0.747,0.841,0.769,0.765,(2.3394)+(0.0531)Ser+(-0.1247)His+(-0.0085)Arg+(-0.2077)Met+(0.0831)Ile;0.832,0.858,0.764,0.752,0.748,0.820,0.792,0.778,(2.4958)+(0.0300)Ser+(-0.0092)Lys+(0.1377)Ile+(-0.0564)Leu+(-0.1483)Trp;0.832,0.858,0.828,0.828,0.824,0.846,0.824,0.830,(5.4545)+(0.0113)Gln+(-0.1165)His+(0.0107)Val+(-0.0723)Met+(-0.1064)Trp;0.832,0.851,0.795,0.767,0.821,0.829,0.790,0.802,(6.5691)+(-0.1163)Cit+(0.0474)Orn+(-0.0119)Lys+(0.0582)Ile+(-0.1658)Trp;0.832,0.855,0.798,0.782,0.776,0.854,0.845,0.814,(3.2769)+(0.0101)Gln+(-0.1183)His+(-0.2001)Met+(0.1261)Ile+(-0.0425)Leu;0.832,0.854,0.809,0.798,0.806,0.831,0.825,0.815,(5.3624)+(0.0099)Gln+(-0.1281)His+(-0.0002)Lys+(0.0251)Leu+(-0.1167)Trp;0.832,0.853,0.831,0.835,0.822,0.849,0.824,0.832,(6.0380)+(-0.0600)Asn+(0.0110)Gln+(-0.1051)His+(0.0088)Lys+(-0.1028)Trp;0.832,0.853,0.816,0.822,0.822,0.863,0.754,0.815,(6.1056)+(0.0403)Ser+(-0.0790)Asn+(-0.0007)Ala+(-0.0627)Cit+(-0.1309)Trp;0.832,0.862,0.804,0.786,0.810,0.811,0.832,0.810,(6.2859)+(-0.1082)His+(-0.0037)Arg+(0.0098)Leu+(0.0954)Phe+(-0.1209)Trp;0.832,0.860,0.793,0.795,0.777,0.813,0.809,0.798,(0.7617)+(0.0298)Ser+(-0.0069)Ala+(0.0026)Orn+(0.0839)Phe+(-0.1658)Trp;0.832,0.853,0.807,0.807,0.821,0.847,0.746,0.805,(5.5690)+(0.0415)Ser+(-0.0815)Asn+(-0.0710)Cit+(0.0060)Val+(-0.1444)Trp;0.832,0.854,0.798,0.794,0.804,0.829,0.774,0.800,(8.6365)+(-0.0397)Asn+(-0.0864)His+(0.0224)Thr+(0.0060)Pro+(-0.1079)Trp;0.832,0.856,0.805,0.799,0.801,0.855,0.789,0.8

11,(6.5624)+(0.0481)Ser+(-0.0455)Asn+(-0.0051)Gly+(-0.0775)His+(-0.0945)Trp;0.832,0.856,0.798,0.793,0.810,0.838,0.761,0.800,(5.0618)+(0.0435)Ser+(-0.0894)Asn+(-0.0721)Cit+(0.0205)Leu+(-0.1518)Trp;0.832,0.856,0.793,0.786,0.824,0.839,0.711,0.790,(4.8811)+(0.0291)Ser+(-0.1083)Cit+(-0.0103)Arg+(0.0503)Orn+(-0.1623)Trp;0.832,0.852,0.759,0.744,0.710,0.863,0.824,0.785,(3.0824)+(0.0451)Ser+(-0.1730)Asn+(-0.0514)Cit+(-0.0534)Val+(0.1719)Ile;0.832,0.853,0.791,0.771,0.806,0.826,0.792,0.799,(6.3844)+(0.0166)Thr+(-0.0901)Cit+(-0.0124)Lys+(0.0693)Ile+(-0.1747)Trp;0.832,0.858,0.814,0.814,0.829,0.856,0.749,0.812,(9.1624)+(-0.0730)His+(0.0327)Thr+(-0.0379)Cit+(-0.1106)Met+(-0.1051)Trp;0.832,0.856,0.791,0.783,0.821,0.841,0.716,0.790,(4.4595)+(0.0269)Ser+(0.0006)Gln+(-0.1150)Cit+(0.0478)Orn+(-0.1664)Trp;0.832,0.854,0.787,0.774,0.790,0.851,0.769,0.796,(5.6659)+(0.0378)Ser+(-0.0977)His+(-0.0011)Ala+(0.0225)Tyr+(-0.1038)Trp;0.832,0.858,0.778,0.775,0.783,0.814,0.749,0.780,(2.7975)+(0.0431)Ser+(0.0103)Pro+(-0.2209)Met+(0.0182)Leu+(-0.1446)Trp;0.832,0.856,0.775,0.759,0.788,0.837,0.748,0.783,(5.4269)+(0.0423)Ser+(-0.1066)His+(-0.0095)Arg+(0.0121)Val+(-0.1078)Trp;0.832,0.860,0.785,0.777,0.787,0.772,0.814,0.787,(0.7682)+(0.0416)Ser+(-0.0076)Gly+(-0.0047)Thr+(0.0688)Phe+(-0.1730)Trp;0.832,0.864,0.756,0.750,0.761,0.762,0.755,0.757,(0.7456)+(0.0314)Ser+(-0.0019)Gln+(0.0021)Pro+(0.0712)Phe+(-0.1781)Trp;0.832,0.856,0.788,0.795,0.790,0.831,0.732,0.787,(3.9505)+(0.0417)Ser+(-0.0106)Arg+(0.0133)Pro+(-0.1804)Met+(-0.1326)Trp;0.832,0.861,0.800,0.793,0.796,0.805,0.824,0.804,(5.8991)+(-0.1085)His+(-0.0202)Tyr+(0.0070)Lys+(0.1096)Phe+(-0.1147)Trp;0.832,0.853,0.784,0.760,0.805,0.785,0.804,0.789,(3.7666)+(0.0111)Thr+(-0.1024)Cit+(0.0489)Ile+(0.0646)Phe+(-0.1981)Trp;0.832,0.857,0.802,0.796,0.787,0.833,0.826,0.811,(5.8199)+(0.0019)Gly+(-0.1564)Met+(0.1535)Ile+(-0.0620)Leu+(-0.1243)Trp;0.832,0.856,0.821,0.824,0.813,0.846,0.813,0.824,(5.7009)+(0

.0107)Gln+(-0.1016)His+(0.0098)Pro+(-0.0936)Met+(-0.0986)Trp;0.832,0.858,0.785,0.754,0.793,0.823,0.820,0.798,(7.4670)+(-0.0983)His+(-0.0064)Arg+(0.0252)Orn+(0.0591)Ile+(-0.1197)Trp;0.832,0.855,0.798,0.798,0.797,0.859,0.757,0.803,(6.5822)+(0.0419)Ser+(-0.0420)Asn+(-0.0797)His+(-0.0056)Arg+(-0.0918)Trp;0.832,0.858,0.764,0.753,0.746,0.815,0.793,0.777,(2.3311)+(0.0270)Ser+(-0.0070)Orn+(0.1413)Ile+(-0.0622)Leu+(-0.1556)Trp;0.832,0.857,0.783,0.788,0.787,0.828,0.730,0.783,(3.4154)+(0.0388)Ser+(0.0116)Pro+(-0.2011)Met+(0.0151)Orn+(-0.1367)Trp;0.832,0.855,0.778,0.751,0.778,0.820,0.815,0.791,(6.8530)+(0.0042)Gly+(-0.1000)His+(0.0032)Tyr+(0.0673)Ile+(-0.1195)Trp;0.832,0.851,0.735,0.706,0.739,0.811,0.752,0.752,(1.3781)+(0.0536)Ser+(-0.1128)Asn+(-0.1530)His+(0.0068)Thr+(0.1085)Phe;0.832,0.849,0.737,0.706,0.738,0.809,0.762,0.754,(1.2352)+(0.0556)Ser+(-0.1046)Asn+(-0.1507)His+(0.0021)Leu+(0.1073)Phe;0.832,0.848,0.726,0.683,0.713,0.828,0.792,0.754,(2.4277)+(0.0436)Ser+(-0.0048)Gly+(-0.1356)His+(0.1029)Ile+(-0.0357)Leu;0.832,0.856,0.791,0.801,0.790,0.828,0.741,0.790,(3.1457)+(0.0373)Ser+(0.0021)Gln+(0.0124)Pro+(-0.2025)Met+(-0.1371)Trp;0.832,0.856,0.791,0.783,0.819,0.838,0.721,0.790,(4.5653)+(0.0295)Ser+(-0.0040)Thr+(-0.1140)Cit+(0.0504)Orn+(-0.1623)Trp;0.832,0.855,0.838,0.837,0.833,0.861,0.834,0.841,(5.6527)+(0.0113)Gln+(-0.1083)His+(0.0333)Tyr+(-0.1058)Met+(-0.1045)Trp;0.832,0.853,0.838,0.846,0.828,0.860,0.826,0.840,(6.1854)+(-0.0393)Asn+(0.0117)Gln+(-0.0981)His+(-0.0320)Met+(-0.0949)Trp;0.832,0.857,0.762,0.735,0.775,0.828,0.760,0.774,(4.9504)+(0.0438)Ser+(-0.1130)His+(-0.0087)Arg+(0.0312)Leu+(-0.1131)Trp;0.832,0.860,0.777,0.766,0.773,0.831,0.779,0.787,(3.0397)+(0.0451)Ser+(-0.0985)Asn+(-0.0145)Arg+(0.0596)Ile+(-0.1504)Trp;0.832,0.855,0.793,0.765,0.799,0.824,0.832,0.805,(7.7355)+(-0.0749)His+(-0.0457)Cit+(0.0019)Pro+(0.0667)Ile+(-0.1286)Trp;0.832,0.863,0.854,0.868,0.847,0.820,0.856,0.848,(3.3020)+(-0.1020)Asn+(0.0

061)Gln+(-0.0083)Val+(0.0893)Phe+(-0.1476)Trp;0.832,0.855,0.813,0.797,0.817,0.832,0.833,0.820,(4.6664)+(0.0060)Gln+(-0.0935)Cit+(-0.0111)Lys+(0.0704)Ile+(-0.1750)Trp;0.832,0.858,0.794,0.788,0.790,0.840,0.784,0.800,(3.3652)+(0.0416)Ser+(-0.0264)Val+(-0.1990)Met+(0.0660)Leu+(-0.1348)Trp;0.832,0.853,0.787,0.759,0.787,0.816,0.836,0.800,(7.3611)+(-0.0953)His+(0.0005)Pro+(0.0030)Lys+(0.0628)Ile+(-0.1221)Trp;0.832,0.854,0.774,0.748,0.792,0.815,0.779,0.783,(7.5003)+(-0.1171)His+(0.0185)Thr+(0.0222)Orn+(0.0224)Leu+(-0.1228)Trp;0.832,0.861,0.777,0.767,0.780,0.758,0.809,0.779,(0.8436)+(0.0394)Ser+(-0.0081)Gly+(0.0020)Pro+(0.0645)Phe+(-0.1784)Trp;0.832,0.855,0.808,0.811,0.816,0.845,0.754,0.807,(8.8066)+(-0.0831)His+(0.0309)Thr+(0.0003)Ala+(-0.1152)Met+(-0.1024)Trp;0.832,0.859,0.767,0.778,0.761,0.765,0.753,0.764,(0.5569)+(0.0307)Ser+(-0.0421)Tyr+(-0.0010)Leu+(0.0970)Phe+(-0.1656)Trp;0.832,0.860,0.802,0.799,0.788,0.808,0.836,0.808,(1.1231)+(0.0398)Ser+(-0.0071)Gly+(-0.0064)Ala+(0.0817)Phe+(-0.1638)Trp;0.832,0.853,0.795,0.787,0.802,0.836,0.772,0.799,(7.9896)+(-0.0973)His+(0.0172)Thr+(-0.0021)Ala+(0.0302)Orn+(-0.1053)Trp;0.831,0.853,0.787,0.761,0.788,0.815,0.836,0.800,(7.4000)+(-0.0018)Asn+(-0.0949)His+(0.0032)Lys+(0.0631)Ile+(-0.1219)Trp;0.831,0.856,0.793,0.793,0.798,0.840,0.747,0.795,(3.2885)+(0.0419)Ser+(0.0119)Pro+(0.0245)Tyr+(-0.2291)Met+(-0.1423)Trp;0.831,0.862,0.775,0.775,0.773,0.776,0.777,0.775,(0.2550)+(0.0325)Ser+(-0.0071)Thr+(-0.0008)Leu+(0.0753)Phe+(-0.1738)Trp;0.831,0.854,0.812,0.808,0.824,0.852,0.768,0.813,(8.6703)+(-0.0850)His+(0.0305)Thr+(0.0245)Tyr+(-0.1463)Met+(-0.1096)Trp;0.831,0.856,0.804,0.783,0.815,0.806,0.834,0.810,(4.7660)+(-0.0970)Cit+(-0.0117)Lys+(0.0579)Ile+(0.0766)Phe+(-0.1783)Trp;0.831,0.856,0.808,0.821,0.813,0.852,0.731,0.804,(5.5418)+(0.0334)Ser+(-0.0697)Asn+(0.0168)Thr+(-0.1225)Met+(-0.1360)Trp;0.831,0.852,0.814,0.814,0.810,0.843,0.805,0.818,(5.8836)+(0.0086)Gln+(-0.1111)His+(-0.0017

)Ala+(0.0270)Orn+(-0.1010)Trp;0.831,0.854,0.743,0.719,0.746,0.814,0.751,0.757,(1.3992)+(0.0582)Ser+(-0.0923)Asn+(-0.1467)His+(-0.0164)Arg+(0.1141)Phe;0.831,0.853,0.813,0.809,0.811,0.837,0.810,0.817,(5.3781)+(0.0010)Gly+(0.0100)Gln+(-0.1248)His+(0.0099)Val+(-0.1123)Trp;0.831,0.859,0.790,0.789,0.774,0.811,0.810,0.796,(0.6948)+(0.0302)Ser+(-0.0073)Ala+(0.0056)Leu+(0.0810)Phe+(-0.1692)Trp;0.831,0.853,0.822,0.820,0.816,0.845,0.825,0.827,(5.5744)+(0.0103)Gln+(-0.1218)His+(-0.0021)Ala+(0.0108)Val+(-0.1110)Trp;0.831,0.851,0.711,0.666,0.707,0.805,0.774,0.738,(-0.3632)+(0.0388)Ser+(0.0035)Gln+(-0.1825)His+(0.0344)Ile+(0.0656)Phe;0.831,0.863,0.823,0.812,0.826,0.835,0.842,0.829,(6.6219)+(-0.0857)His+(-0.0033)Ala+(-0.0541)Cit+(0.1227)Phe+(-0.1224)Trp;0.831,0.860,0.794,0.791,0.801,0.788,0.794,0.793,(1.3295)+(0.0448)Ser+(-0.0073)Gly+(-0.0271)Arg+(0.0822)Phe+(-0.1718)Trp;0.831,0.851,0.797,0.776,0.817,0.820,0.793,0.801,(4.5124)+(0.0035)Gln+(-0.1159)Cit+(0.0345)Orn+(0.0520)Ile+(-0.1865)Trp;0.831,0.855,0.785,0.790,0.787,0.826,0.737,0.785,(3.5873)+(0.0402)Ser+(0.0126)Pro+(0.0012)Val+(-0.1951)Met+(-0.1366)Trp;0.831,0.854,0.773,0.757,0.7

49,0.828,0.827,0.790,(2.0269)+(0.0310)Ser+(-0.0092)Ala+(-0.0020)Orn+(0.0739)Ile+(-0.1640)Trp;0.831,0.858,0.746,0.726,0.746,0.752,0.792,0.754,(-0.0256)+(0.0302)Ser+(-0.0155)Orn+(0.0463)Ile+(0.0547)Phe+(-0.1944)Trp;0.831,0.857,0.788,0.765,0.790,0.832,0.813,0.800,(7.1117)+(0.0053)Gly+(-0.0867)His+(-0.1022)Met+(0.0765)Ile+(-0.1085)Trp;0.831,0.856,0.804,0.779,0.809,0.831,0.837,0.814,(8.0193)+(-0.0678)His+(-0.0404)Cit+(-0.0663)Met+(0.0727)Ile+(-0.1194)Trp;0.831,0.853,0.775,0.760,0.750,0.829,0.830,0.792,(1.9085)+(0.0334)Ser+(-0.0045)Thr+(-0.0090)Ala+(0.0742)Ile+(-0.1609)Trp;0.831,0.854,0.785,0.770,0.800,0.824,0.764,0.790,(7.7231)+(-0.1070)His+(0.0168)Thr+(0.0053)Val+(0.0254)Orn+(-0.1138)Trp;0.831,0.855,0.800,0.783,0.810,0.794,0.827,0.804,(2.7367)+(0.0040)G

ln+(-0.1029)Cit+(0.0503)Ile+(0.0618)Phe+(-0.1960)Trp;0.831,0.854,0.817,0.810,0.816,0.836,0.821,0.821,(5.3856)+(0.0101)Gln+(-0.1264)His+(0.0089)Tyr+(0.0092)Val+(-0.1154)Trp;0.831,0.856,0.789,0.784,0.816,0.841,0.709,0.788,(4.7766)+(0.0277)Ser+(-0.1137)Cit+(-0.0088)Tyr+(0.0501)Orn+(-0.1606)Trp;0.831,0.852,0.814,0.810,0.812,0.835,0.817,0.818,(5.3886)+(0.0099)Gln+(-0.1249)His+(0.0091)Val+(0.0026)Lys+(-0.1137)Trp;0.831,0.851,0.805,0.792,0.800,0.832,0.831,0.814,(5.5023)+(0.0096)Gln+(-0.1242)His+(-0.0115)Val+(0.0431)Leu+(-0.1150)Trp;0.831,0.861,0.784,0.775,0.786,0.768,0.812,0.785,(0.9180)+(0.0394)Ser+(-0.0080)Gly+(-0.0025)Leu+(0.0691)Phe+(-0.1750)Trp;0.831,0.852,0.742,0.703,0.726,0.851,0.800,0.770,(2.6296)+(0.0435)Ser+(-0.1274)His+(-0.0084)Ala+(-0.0511)Cit+(0.0767)Ile;0.831,0.858,0.758,0.732,0.762,0.759,0.817,0.768,(0.4752)+(0.0391)Ser+(-0.0077)Gly+(0.0403)Ile+(0.0432)Phe+(-0.1892)Trp;0.831,0.855,0.808,0.812,0.815,0.847,0.755,0.807,(8.8129)+(0.0001)Gly+(-0.0829)His+(0.0308)Thr+(-0.1131)Met+(-0.1021)Trp;0.831,0.856,0.735,0.709,0.744,0.754,0.772,0.745,(0.5283)+(0.0324)Ser+(-0.0025)Gln+(0.0426)Ile+(0.0491)Phe+(-0.1878)Trp;0.831,0.853,0.805,0.800,0.787,0.826,0.841,0.813,(6.1088)+(-0.0465)Asn+(-0.0022)Pro+(0.1414)Ile+(-0.0631)Leu+(-0.1332)Trp;0.831,0.852,0.808,0.810,0.802,0.838,0.792,0.810,(5.9415)+(0.0081)Gln+(-0.1155)His+(0.0128)Thr+(0.0024)Lys+(-0.1086)Trp;0.831,0.858,0.777,0.764,0.782,0.769,0.804,0.780,(1.1742)+(0.0413)Ser+(-0.0078)Gly+(-0.0014)Gln+(0.0685)Phe+(-0.1747)Trp;0.831,0.854,0.771,0.764,0.741,0.822,0.815,0.786,(5.9093)+(0.0189)Thr+(-0.0330)Arg+(-0.0459)Val+(0.1639)Ile+(-0.1375)Trp;0.831,0.851,0.811,0.812,0.805,0.835,0.805,0.814,(5.7065)+(0.0001)Gly+(0.0094)Gln+(-0.1121)His+(0.0071)Pro+(-0.1050)Trp;0.831,0.851,0.734,0.702,0.735,0.808,0.761,0.752,(1.1511)+(0.0560)Ser+(-0.1074)Asn+(-0.1501)His+(0.0031)Pro+(0.1066)Phe;0.831,0.854,0.816,0.808,0.815,0.840,0.823,0.821,(5.4572)+(0.0115)Gln+(-0.1274)His+(-0

.0136)Arg+(0.0249)Leu+(-0.1142)Trp;0.831,0.852,0.773,0.763,0.739,0.81
2,0.842,0.789,(4.8002)+(0.0000)Gln+(-0.0416)Val+(0.0115)Orn+(0.1461)I
le+(-0.1394)Trp;0.831,0.859,0.766,0.776,0.760,0.764,0.752,0.763,(0.54
72)+(0.0307)Ser+(-0.0422)Tyr+(0.0003)Orn+(0.0959)Phe+(-0.1663)Trp;0.8
31,0.859,0.829,0.838,0.832,0.788,0.828,0.822,(1.5582)+(0.0060)Gln+(0.
0070)Pro+(-0.2657)Met+(0.1102)Phe+(-0.1498)Trp;0.831,0.855,0.799,0.78
9,0.788,0.836,0.826,0.810,(6.3108)+(-0.0715)Cit+(-0.0063)Tyr+(0.1452)
Ile+(-0.0583)Leu+(-0.1452)Trp;0.831,0.861,0.804,0.792,0.809,0.808,0.8
25,0.809,(6.1549)+(-0.1080)His+(-0.0088)Arg+(0.0071)Lys+(0.1008)Phe+(
-0.1203)Trp;0.831,0.846,0.735,0.689,0.730,0.828,0.802,0.762,(1.4362)+
(0.0403)Ser+(-0.0052)Gly+(0.0050)Gln+(-0.1668)His+(0.0502)Ile;0.831,0
.862,0.763,0.759,0.768,0.769,0.757,0.763,(0.7606)+(0.0311)Ser+(-0.001
7)Gln+(-0.0013)Leu+(0.0743)Phe+(-0.1758)Trp;0.831,0.853,0.787,0.775,0
.798,0.828,0.764,0.791,(7.6834)+(-0.1021)His+(0.0154)Thr+(0.0277)Orn+
(0.0029)Lys+(-0.1089)Trp;0.831,0.850,0.792,0.784,0.791,0.844,0.781,0.
800,(5.9928)+(0.0443)Ser+(-0.0053)Gly+(-0.0888)His+(0.0003)Ala+(-0.09
73)Trp;0.831,0.853,0.829,0.834,0.820,0.851,0.816,0.830,(5.6262)+(0.01
02)Gln+(-0.1052)His+(-0.0885)Met+(0.0103)Lys+(-0.1009)Trp;0.831,0.858
,0.810,0.794,0.821,0.817,0.823,0.814,(6.4215)+(-0.0915)His+(-0.0530)C
it+(0.0021)Val+(0.1121)Phe+(-0.1279)Trp;0.831,0.854,0.781,0.767,0.786
,0.844,0.763,0.790,(5.4419)+(0.0368)Ser+(-0.1019)His+(0.0167)Tyr+(0.0
044)Lys+(-0.1071)Trp;0.831,0.853,0.778,0.754,0.778,0.821,0.810,0.791,
(7.0441)+(0.0044)Gly+(-0.0974)His+(-0.0044)Arg+(0.0682)Ile+(-0.1174)T
rp;0.831,0.859,0.816,0.803,0.825,0.822,0.825,0.819,(6.5843)+(-0.0107)
Asn+(-0.0872)His+(-0.0519)Cit+(0.1153)Phe+(-0.1242)Trp;0.831,0.855,0.
792,0.765,0.797,0.824,0.832,0.804,(7.7155)+(-0.0768)His+(-0.0443)Cit+
(0.0016)Lys+(0.0677)Ile+(-0.1285)Trp;0.831,0.855,0.812,0.817,0.821,0.
853,0.753,0.811,(5.8445)+(0.0404)Ser+(-0.0900)Asn+(-0.0650)Cit+(0.005

0)Lys+(-0.1376)Trp;0.831,0.851,0.740,0.711,0.740,0.812,0.768,0.758,(1.3300)+(0.0574)Ser+(-0.1031)Asn+(-0.0015)Gly+(-0.1490)His+(0.1083)Phe;0.831,0.847,0.786,0.762,0.812,0.816,0.778,0.792,(5.5362)+(0.0063)Thr+(-0.1134)Cit+(0.0360)Orn+(0.0512)Ile+(-0.1835)Trp;0.831,0.861,0.774,0.774,0.773,0.775,0.776,0.774,(0.2425)+(0.0325)Ser+(-0.0072)Thr+(0.0000)Orn+(0.0745)Phe+(-0.1744)Trp;0.831,0.853,0.740,0.705,0.724,0.847,0.789,0.766,(2.7194)+(0.0453)Ser+(-0.1366)His+(-0.0069)Ala+(-0.0165)Arg+(0.0727)Ile;0.831,0.856,0.817,0.809,0.829,0.831,0.801,0.818,(5.0081)+(-0.0070)Ala+(-0.1269)Cit+(0.0517)Orn+(0.0901)Phe+(-0.1671)Trp;0.831,0.862,0.805,0.787,0.816,0.813,0.823,0.810,(6.2517)+(-0.0901)His+(-0.0547)Cit+(0.0054)Pro+(0.1103)Phe+(-0.1286)Trp;0.831,0.857,0.821,0.823,0.818,0.853,0.803,0.824,(5.7733)+(0.0095)Gln+(-0.1055)His+(-0.0704)Met+(0.0276)Orn+(-0.0965)Trp;0.831,0.853,0.772,0.755,0.748,0.826,0.825,0.789,(2.1330)+(0.0316)Ser+(-0.0005)Gln+(-0.0092)Ala+(0.0734)Ile+(-0.1631)Trp;0.831,0.855,0.800,0.787,0.789,0.837,0.827,0.810,(6.2003)+(-0.0729)Cit+(-0.0004)Pro+(0.1450)Ile+(-0.0584)Leu+(-0.1484)Trp;0.830,0.851,0.776,0.765,0.741,0.811,0.850,0.792,(4.9803)+(-0.0012)Gly+(-0.0418)Val+(0.0126)Orn+(0.1460)Ile+(-0.1384)Trp;0.830,0.856,0.799,0.791,0.815,0.836,0.758,0.800,(4.0438)+(0.0418)Ser+(-0.0667)Cit+(-0.1542)Met+(0.0264)Leu+(-0.1486)Trp;0.830,0.851,0.833,0.832,0.851,0.854,0.784,0.830,(6.2288)+(-0.0844)Asn+(0.0069)Gln+(-0.1114)Cit+(0.0517)Orn+(-0.1501)Trp;0.830,0.857,0.775,0.764,0.764,0.823,0.790,0.785,(3.0069)+(0.0429)Ser+(-0.1105)Asn+(-0.0085)Tyr+(0.0585)Ile+(-0.1487)Trp;0.830,0.856,0.792,0.764,0.796,0.827,0.836,0.806,(7.5610)+(-0.0764)His+(-0.0492)Cit+(0.0062)Arg+(0.0689)Ile+(-0.1294)Trp;0.830,0.857,0.815,0.806,0.807,0.835,0.839,0.822,(0.9559)+(0.0126)Gln+(-0.1533)His+(-0.0026)Val+(-0.2336)Met+(0.1299)Phe;0.830,0.857,0.807,0.785,0.799,0.843,0.853,0.820,(7.9542)+(-0.0775)His+(-0.0039)Ala+(-0.0648)Met+(0.0773)Ile+(-0.11

05)Trp;0.830,0.855,0.824,0.835,0.831,0.864,0.754,0.821,(4.2068)+(0.03
15)Ser+(0.0044)Gln+(-0.0644)Cit+(-0.1234)Met+(-0.1368)Trp;0.830,0.855
,0.803,0.798,0.799,0.857,0.782,0.809,(6.2193)+(0.0460)Ser+(-0.0052)Gl
y+(-0.0797)His+(-0.0530)Met+(-0.0931)Trp;0.830,0.857,0.799,0.796,0.80
5,0.863,0.748,0.803,(6.3920)+(0.0399)Ser+(-0.0740)His+(-0.0333)Cit+(-
0.0463)Met+(-0.0953)Trp;0.830,0.853,0.801,0.799,0.781,0.821,0.834,0.8
09,(6.2534)+(-0.0431)Asn+(-0.0128)Tyr+(0.1401)Ile+(-0.0625)Leu+(-0.12
88)Trp;0.830,0.850,0.787,0.775,0.800,0.817,0.774,0.791,(7.9082)+(-0.1
019)His+(0.0189)Thr+(0.0042)Pro+(0.0060)Val+(-0.1160)Trp;0.830,0.851,
0.774,0.764,0.739,0.811,0.847,0.790,(5.0391)+(-0.0018)Gly+(0.0070)Thr
+(-0.0415)Val+(0.1475)Ile+(-0.1425)Trp;0.830,0.859,0.828,0.836,0.833,
0.792,0.823,0.821,(3.3636)+(-0.1271)Asn+(0.0051)Gln+(0.0157)Thr+(0.07
36)Phe+(-0.1665)Trp;0.830,0.858,0.814,0.804,0.808,0.833,0.841,0.822,(
0.9698)+(-0.0138)Asn+(0.0130)Gln+(-0.1544)His+(-0.2256)Met+(0.1246)Ph
e;0.830,0.851,0.808,0.806,0.808,0.836,0.796,0.811,(5.6617)+(0.0082)Gl
n+(-0.1158)His+(0.0238)Orn+(0.0033)Lys+(-0.1051)Trp;0.830,0.853,0.785
,0.766,0.797,0.820,0.788,0.793,(8.2215)+(-0.0310)Asn+(-0.1062)His+(0.
0247)Thr+(0.0241)Leu+(-0.1205)Trp;0.830,0.855,0.788,0.769,0.757,0.849
,0.860,0.809,(6.0554)+(-0.0683)His+(-0.0453)Val+(-0.2446)Met+(0.0124)
Lys+(0.1704)Ile;0.830,0.853,0.790,0.776,0.742,0.862,0.873,0.813,(4.46
34)+(-0.0057)Ala+(-0.0552)Val+(-0.2548)Met+(0.0266)Orn+(0.1947)Ile;0.
830,0.849,0.738,0.710,0.730,0.828,0.766,0.758,(1.2799)+(0.0476)Ser+(-
0.1544)His+(-0.0039)Ala+(-0.0103)Lys+(0.1080)Phe;0.830,0.855,0.800,0.
789,0.790,0.835,0.825,0.810,(6.3588)+(-0.0696)Cit+(-0.0042)Arg+(0.146
0)Ile+(-0.0593)Leu+(-0.1464)Trp;0.830,0.852,0.798,0.780,0.811,0.817,0
.807,0.804,(4.3350)+(0.0039)Gln+(0.0071)Thr+(-0.0937)Cit+(0.0610)Ile+
(-0.1891)Trp;0.830,0.850,0.775,0.753,0.789,0.809,0.780,0.783,(7.6732)
+(-0.1123)His+(0.0208)Thr+(0.0025)Pro+(0.0238)Leu+(-0.1237)Trp;0.830,

0.852,0.810,0.812,0.805,0.840,0.795,0.813,(5.9601)+(0.0083)Gln+(-0.1167)His+(0.0127)Thr+(0.0074)Tyr+(-0.1098)Trp;0.830,0.851,0.769,0.759,0.736,0.812,0.836,0.786,(4.6786)+(0.0040)Thr+(-0.0418)Val+(0.0087)Orn+(0.1462)Ile+(-0.1422)Trp;0.830,0.852,0.789,0.786,0.754,0.829,0.843,0.803,(5.0134)+(0.0033)Gln+(-0.0244)Arg+(-0.0418)Val+(0.1538)Ile+(-0.1343)Trp;0.830,0.850,0.740,0.712,0.734,0.819,0.768,0.758,(0.3424)+(0.0417)Ser+(0.0049)Gln+(-0.1728)His+(-0.0137)Lys+(0.1003)Phe;0.830,0.854,0.809,0.792,0.820,0.801,0.837,0.813,(5.0937)+(-0.0458)Asn+(-0.0892)Cit+(0.0484)Ile+(0.0715)Phe+(-0.1764)Trp;0.830,0.850,0.808,0.807,0.801,0.830,0.806,0.811,(5.5489)+(0.0090)Gln+(-0.1150)His+(0.0068)Pro+(0.0048)Lys+(-0.1088)Trp;0.830,0.862,0.810,0.803,0.809,0.813,0.827,0.813,(6.2931)+(-0.1018)His+(-0.0039)Arg+(-0.0144)Tyr+(0.1125)Phe+(-0.1106)Trp;0.830,0.858,0.847,0.863,0.845,0.804,0.838,0.837,(1.7038)+(0.0065)Gln+(-0.0062)Val+(-0.2392)Met+(0.1226)Phe+(-0.1419)Trp;0.830,0.851,0.736,0.702,0.714,0.840,0.796,0.763,(2.6563)+(0.0407)Ser+(-0.1385)His+(-0.0067)Ala+(-0.0119)Tyr+(0.0718)Ile;0.830,0.855,0.786,0.778,0.793,0.853,0.744,0.792,(5.8791)+(0.0377)Ser+(-0.0866)His+(-0.0364)Cit+(0.0067)Lys+(-0.1055)Trp;0.830,0.847,0.729,0.688,0.700,0.832,0.822,0.760,(2.7115)+(0.0428)Ser+(-0.0060)Gly+(-0.1191)His+(-0.0305)Val+(0.1220)Ile;0.830,0.854,0.792,0.776,0.819,0.843,0.742,0.795,(8.1695)+(-0.0808)His+(0.0163)Thr+(-0.0788)Cit+(0.0506)Orn+(-0.1179)Trp;0.830,0.855,0.820,0.824,0.840,0.814,0.772,0.812,(3.9173)+(0.0058)Gly+(-0.0832)Cit+(-0.1713)Met+(0.1296)Phe+(-0.1496)Trp;0.830,0.852,0.810,0.808,0.810,0.838,0.797,0.813,(5.7613)+(-0.0000)Gly+(0.0085)Gln+(-0.1139)His+(0.0253)Orn+(-0.1025)Trp;0.830,0.853,0.791,0.784,0.798,0.856,0.747,0.796,(6.2026)+(0.0386)Ser+(-0.0805)His+(
0.0001)Ala+(-0.0356)Cit+(-0.0998)Trp;0.830,0.853,0.771,0.750,0.732,0.823,0.871,0.794,(4.8680)+(-0.0818)Asn+(-0.0852)His+(-0.0440)Val+(0.13

22)Ile+(0.0768)Phe;0.830,0.851,0.746,0.721,0.727,0.830,0.789,0.767,(0.1753)+(0.0390)Ser+(0.0043)Gln+(-0.1712)His+(-0.0048)Ala+(0.0957)Phe;0.830,0.857,0.806,0.798,0.792,0.832,0.836,0.815,(6.1070)+(0.0012)Pro+(-0.1531)Met+(0.1503)Ile+(-0.0615)Leu+(-0.1244)Trp;0.830,0.853,0.782,0.781,0.797,0.821,0.725,0.781,(3.2629)+(0.0351)Ser+(0.0152)Thr+(-0.2276)Met+(0.0238)Leu+(-0.1534)Trp;0.830,0.857,0.801,0.777,0.804,0.826,0.841,0.812,(7.5353)+(-0.0852)His+(-0.1108)Met+(0.0090)Lys+(0.0679)Ile+(-0.1158)Trp;0.830,0.853,0.796,0.789,0.808,0.836,0.762,0.799,(8.4140)+(-0.0810)His+(0.0206)Thr+(-0.0425)Cit+(0.0067)Pro+(-0.1163)Trp;0.830,0.853,0.787,0.777,0.800,0.831,0.760,0.792,(7.7727)+(0.0004)Gly+(-0.1006)His+(0.0162)Thr+(0.0288)Orn+(-0.1069)Trp;0.830,0.848,0.779,0.770,0.741,0.813,0.855,0.795,(4.8687)+(-0.0010)Gly+(0.0010)Gln+(-0.0405)Val+(0.1463)Ile+(-0.1399)Trp;0.830,0.854,0.844,0.850,0.837,0.865,0.828,0.845,(6.3815)+(-0.0485)Asn+(0.0120)Gln+(-0.0889)His+(-0.0370)Cit+(-0.0997)Trp;0.830,0.854,0.812,0.818,0.816,0.843,0.766,0.811,(5.1153)+(0.0404)Ser+(-0.0087)Gly+(0.0186)Thr+(-0.1838)Met+(-0.1424)Trp;0.830,0.854,0.791,0.762,0.796,0.825,0.831,0.803,(7.6875)+(0.0060)Asn+(-0.0768)His+(-0.0450)Cit+(0.0691)Ile+(-0.1282)Trp;0.830,0.851,0.810,0.801,0.823,0.846,0.781,0.813,(7.4030)+(-0.0082)Ala+(-0.1190)Cit+(0.0127)Pro+(0.0580)Orn+(-0.1489)Trp;0.830,0.857,0.811,0.796,0.806,0.832,0.843,0.819,(0.7697)+(0.0128)Gln+(-0.1586)His+(-0.2449)Met+(0.0068)Leu+(0.1198)Phe;0.830,0.857,0.800,0.797,0.806,0.828,0.778,0.802,(6.3589)+(0.0341)Thr+(-0.0358)Val+(-0.2467)Met+(0.0760)Leu+(-0.1412)Trp;0.830,0.856,0.829,0.846,0.821,0.862,0.778,0.827,(4.0189)+(0.0349)Ser+(-0.0806)Asn+(0.0051)Gln+(-0.0945)Met+(-0.1322)Trp;0.830,0.848,0.787,0.783,0.793,0.822,0.764,0.790,(7.9677)+(0.0006)Gly+(-0.0945)His+(0.0183)Thr+(0.0060)Pro+(-0.1091)Trp;0.829,0.851,0.779,0.769,0.752,0.824,0.830,0.794,(5.8310)+(-0.0260)Arg+(-0.0453)Val+(0.0263)Orn+(0.1570)Ile+(-0.1282)T

rp;0.829,0.851,0.773,0.763,0.740,0.814,0.840,0.789,(4.8260)+(-0.0355)Val+(0.0103)Orn+(0.1612)Ile+(-0.0205)Leu+(-0.1361)Trp;0.829,0.851,0.802,0.798,0.808,0.831,0.776,0.803,(8.6220)+(-0.0467)Asn+(-0.0899)His+(0.0226)Thr+(0.0076)Lys+(-0.1093)Trp;0.829,0.854,0.795,0.780,0.828,0.803,0.758,0.792,(4.3233)+(0.0081)Thr+(-0.1269)Cit+(0.0411)Orn+(0.0753)Phe+(-0.1874)Trp;0.829,0.857,0.807,0.791,0.818,0.814,0.822,0.812,(6.2441)+(-0.0937)His+(-0.0508)Cit+(0.0039)Lys+(0.1123)Phe+(-0.1281)Trp;0.829,0.862,0.769,0.769,0.771,0.765,0.766,0.768,(0.4002)+(0.0289)Ser+(-0.0033)Orn+(-0.0014)Leu+(0.0744)Phe+(-0.1789)Trp;0.829,0.862,0.763,0.760,0.767,0.760,0.764,0.763,(0.3333)+(0.0290)Ser+(0.0020)Pro+(-0.0051)Orn+(0.0722)Phe+(-0.1814)Trp;0.829,0.854,0.810,0.807,0.810,0.839,0.799,0.814,(5.6971)+(0.0085)Gln+(-0.1163)His+(0.0071)Tyr+(0.0237)Orn+(-0.1052)Trp;0.829,0.850,0.767,0.762,0.729,0.810,0.828,0.782,(5.1342)+(0.0082)Thr+(-0.0187)Tyr+(-0.0404)Val+(0.1486)Ile+(-0.1369)Trp;0.829,0.853,0.819,0.819,0.816,0.842,0.810,0.822,(5.8661)+(0.0100)Gln+(-0.0986)His+(-0.0425)Cit+(0.0086)Pro+(-0.1118)Trp;0.829,0.851,0.786,0.767,0.792,0.828,0.792,0.795,(7.9813)+(-0.1098)His+(0.0232)Thr+(-0.0032)Ala+(0.0278)Leu+(-0.1211)Trp;0.829,0.850,0.777,0.757,0.790,0.813,0.777,0.784,(7.8324)+(-0.1126)His+(0.0224)Thr+(-0.0015)Lys+(0.0258)Leu+(-0.1226)Trp;0.829,0.852,0.788,0.762,0.788,0.818,0.835,0.801,(7.4617)+(0.0027)Asn+(-0.0934)His+(0.0002)Tyr+(0.0652)Ile+(-0.1202)Trp;0.829,0.852,0.816,0.817,0.815,0.843,0.794,0.817,(5.9241)+(0.0102)Gln+(-0.1128)His+(-0.0175)Arg+(0.0294)Orn+(-0.1003)Trp;0.829,0.854,0.807,0.817,0.809,0.851,0.747,0.806,(4.6608)+(0.0385)Ser+(-0.0707)Asn+(-0.0971)Met+(0.0248)Orn+(-0.1300)Trp;0.829,0.852,0.822,0.822,0.820,0.839,0.816,0.824,(5.5843)+(0.0117)Gln+(-0.1230)His+(-0.0137)Arg+(0.0097)Val+(-0.1097)Trp;0.829,0.850,0.771,0.762,0.735,0.814,0.839,0.787,(4.8496)+(0.0047)Thr+(-0.0354)Val+(0.1620)Ile+(-0.0197)Leu+(-0.1390)Trp;0.829,0.853,0

.788,0.762,0.789,0.817,0.836,0.801,(7.4927)+(-0.0926)His+(0.0006)Pro+(-0.0002)Tyr+(0.0644)Ile+(-0.1200)Trp;0.829,0.852,0.804,0.794,0.829,0.814,0.769,0.801,(4.6502)+(-0.1234)Cit+(-0.0055)Val+(0.0488)Orn+(0.0824)Phe+(-0.1719)Trp;0.829,0.857,0.810,0.796,0.806,0.836,0.836,0.818,(0.8962)+(0.0121)Gln+(-0.1567)His+(-0.2359)Met+(0.0102)Orn+(0.1217)Phe;0.829,0.850,0.770,0.761,0.736,0.811,0.838,0.786,(4.8034)+(0.0000)Gln+(0.0056)Thr+(-0.0413)Val+(0.1475)Ile+(-0.1427)Trp;0.829,0.852,0.773,0.759,0.748,0.828,0.823,0.789,(2.1154)+(0.0307)Ser+(-0.0090)Ala+(-0.0050)Tyr+(0.0733)Ile+(-0.1621)Trp;0.829,0.858,0.804,0.783,0.817,0.814,0.828,0.811,(6.4133)+(-0.0941)His+(-0.0528)Cit+(0.0113)Leu+(0.1048)Phe+(-0.1319)Trp;0.829,0.853,0.775,0.763,0.742,0.817,0.843,0.791,(5.1273)+(-0.0411)Val+(0.0151)Orn+(-0.0059)Lys+(0.1484)Ile+(-0.1333)Trp;0.829,0.851,0.812,0.811,0.807,0.833,0.809,0.815,(5.6655)+(0.0094)Gln+(-0.1144)His+(0.0064)Pro+(0.0068)Tyr+(-0.1073)Trp;0.829,0.851,0.803,0.802,0.823,0.846,0.737,0.802,(4.6687)+(0.0389)Ser+(-0.0689)Cit+(0.0087)Val+(-0.1228)Met+(-0.1451)Trp;0.829,0.854,0.814,0.818,0.822,0.859,0.754,0.813,(6.0165)+(0.0402)Ser+(-0.0835)Asn+(-0.0660)Cit+(0.0035)Arg+(-0.1335)Trp;0.829,0.859,0.809,0.799,0.796,0.837,0.845,0.819,(5.9667)+(0.0149)Tyr+(-0.1724)Met+(0.1513)Ile+(-0.0617)Leu+(-0.1283)Trp;0.829,0.857,0.823,0.819,0.843,0.798,0.812,0.818,(4.7615)+(-0.0764)Cit+(0.0088)Pro+(-0.1781)Met+(0.1175)Phe+(-0.1527)Trp;0.829,0.851,0.753,0.739,0.710,0.803,0.845,0.774,(4.0644)+(-0.1059)His+(-0.0462)Tyr+(-0.0352)Val+(0.1202)Ile+(0.0879)Phe;0.829,0.853,0.823,0.816,0.827,0.845,0.820,0.827,(5.5330)+(0.0109)Gln+(-0.1118)His+(-0.0446)Cit+(0.0115)Val+(-0.1193)Trp;0.829,0.851,0.742,0.713,0.748,0.816,0.757,0.758,(1.4289)+(0.0570)Ser+(-0.1057)Asn+(-0.1408)His+(-0.0357)Cit+(0.1129)Phe;0.829,0.857,0.811,0.799,0.805,0.833,0.837,0.819,(0.7061)+(0.0125)Gln+(-0.1589)His+(-0.2460)Met+(0.0037)Lys+(0.1259)Phe;0.829,0.854,0.749,0.731,0.752

,0.757,0.783,0.756,(0.0847)+(0.0284)Ser+(-0.0033)Pro+(0.0447)Ile+(0.0474)Phe+(-0.1908)Trp;0.829,0.850,0.806,0.807,0.809,0.845,0.773,0.808,(8.9962)+(-0.0377)Asn+(-0.0843)His+(0.0253)Thr+(-0.0011)Ala+(-0.1042)Trp;0.829,0.857,0.808,0.795,0.804,0.828,0.836,0.816,(0.7549)+(0.0126)Gln+(-0.1547)His+(0.0054)Pro+(-0.2559)Met+(0.1229)Phe;0.829,0.849,0.735,0.722,0.719,0.801,0.753,0.749,(0.1226)+(0.0386)Ser+(0.0042)Gln+(-0.1670)His+(-0.0448)Tyr+(0.1137)Phe;0.829,0.849,0.817,0.802,0.808,0.844,0.853,0.827,(6.9243)+(-0.0144)Asn+(-0.0074)Ala+(-0.0761)Cit+(0.0788)Ile+(-0.1541)Trp;0.829,0.857,0.798,0.790,0.791,0.832,0.811,0.806,(5.4366)+(0.0253)Thr+(-0.0057)Ala+(-0.2101)Met+(0.0750)Ile+(-0.1496)Trp;0.829,0.856,0.814,0.813,0.826,0.860,0.757,0.814,(5.7683)+(0.0414)Ser+(-0.0892)Asn+(-0.0673)Cit+(0.0175)Tyr+(-0.1409)Trp;0.829,0.848,0.773,0.752,0.787,0.814,0.769,0.781,(7.5451)+(0.0016)Gly+(-0.1148)His+(0.0207)Thr+(0.0259)Leu+(-0.1221)Trp;0.829,0.854,0.791,0.776,0.793,0.846,0.788,0.801,(5.7494)+(0.0440)Ser+(-0.0047)Gly+(-0.0949)His+(0.0166)Tyr+(-0.1041)Trp;0.829,0.855,0.796,0.794,0.796,0.861,0.751,0.801,(6.2804)+(0.0398)Ser+(-0.0822)His+(-0.0062)Arg+(-0.0461)Met+(-0.0908)Trp;0.829,0.851,0.812,0.806,0.843,0.837,0.743,0.807,(8.0344)+(-0.0746)Asn+(0.0153)Thr+(-0.1091)Cit+(0.0513)Orn+(-0.1508)Trp;0.829,0.849,0.779,0.770,0.743,0.819,0.850,0.795,(4.9033)+(0.0013)Gln+(-0.0396)Val+(-0.0050)Lys+(0.1480)Ile+(-0.1362)Trp;0.828,0.852,0.783,0.778,0.787,0.845,0.742,0.788,(5.8655)+(0.0378)Ser+(-0.0958)His+(-0.0137)Arg+(0.0095)Lys+(-0.1007)Trp;0.828,0.854,0.793,0.767,0.796,0.824,0.835,0.805,(7.3830)+(0.0266)Asn+(-0.0849)His+(-0.1076)Met+(0.0747)Ile+(-0.1124)Trp;0.828,0.847,0.727,0.690,0.713,0.830,0.781,0.753,(1.5788)+(0.0320)Ser+(0.0038)Gln+(-0.1493)His+(0.0955)Ile+(-0.0316)Leu;0.828,0.849,0.799,0.790,0.810,0.829,0.776,0.801,(8.5692)+(-0.0310)Asn+(-0.0958)His+(0.0235)Thr+(0.0064)Val+(-0.1130)Trp;0.828,0.851,0.809,0.806,0.841,0.846,0.722,0

.804,(7.2604)+(0.0203)Thr+(-0.1007)Cit+(-0.1404)Met+(0.0473)Orn+(-0.1457)Trp;0.828,0.850,0.837,0.845,0.828,0.857,0.819,0.837,(6.2588)+(-0.0396)Asn+(0.0123)Gln+(-0.1015)His+(-0.0100)Arg+(-0.0951)Trp;0.828,0.855,0.820,0.815,0.838,0.867,0.761,0.820,(4.7621)+(0.0392)Ser+(-0.0629)Cit+(0.0383)Tyr+(-0.1654)Met+(-0.1435)Trp;0.828,0.850,0.771,0.759,0.737,0.818,0.837,0.788,(5.2013)+(0.0099)Thr+(-0.0407)Val+(-0.0082)Lys+(0.1514)Ile+(-0.1373)Trp;0.828,0.852,0.793,0.775,0.753,0.857,0.875,0.815,(6.4592)+(-0.0578)His+(-0.0040)Ala+(-0.0419)Val+(-0.1795)Met+(0.1733)Ile;0.828,0.848,0.801,0.789,0.830,0.804,0.771,0.798,(4.6012)+(-0.1254)Cit+(0.0458)Orn+(-0.0004)Leu+(0.0752)Phe+(-0.1798)Trp;0.828,0.851,0.772,0.766,0.736,0.811,0.835,0.787,(5.1409)+(-0.0177)Tyr+(-0.0409)Val+(0.0154)Orn+(0.1467)Ile+(-0.1323)Trp;0.828,0.851,0.805,0.798,0.748,0.877,0.886,0.828,(3.4146)+(0.0039)Gln+(-0.0056)Ala+(-0.0523)Val+(-0.2709)Met+(0.1946)Ile;0.828,0.847,0.777,0.759,0.727,0.853,0.870,0.802,(4.0293)+(0.0054)Gln+(-0.1090)His+(-0.0066)Ala+(-0.0303)Val+(0.1288)Ile;0.828,0.851,0.790,0.779,0.788,0.845,0.782,0.798,(5.7614)+(0.0429)Ser+(-0.0049)Gly+(-0.0937)His+(0.0054)Lys+(-0.1016)Trp;0.828,0.848,0.706,0.654,0.706,0.803,0.779,0.735,(0.3646)+(0.0479)Ser+(-0.0031)Gly+(-0.1719)His+(0.0361)Ile+(0.0660)Phe;0.828,0.845,0.762,0.740,0.716,0.842,0.860,0.789,(5.3687)+(-0.0969)His+(0.0106)Thr+(-0.0070)Ala+(-0.0345)Val+(0.1395)Ile;0.828,0.849,0.772,0.751,0.779,0.814,0.784,0.782,(7.7894)+(-0.1096)His+(0.0235)Thr+(-0.0192)Val+(0.0551)Leu+(-0.1207)Trp;0.828,0.850,0.788,0.762,0.789,0.818,0.832,0.800,(7.5256)+(0.0051)Asn+(-0.0929)His+(-0.0025)Arg+(0.0655)Ile+(-0.1200)Trp;0.828,0.852,0.807,0.809,0.831,0.835,0.732,0.802,(7.5590)+(0.0263)Thr+(-0.0661)Cit+(0.0097)Pro+(-0.1764)Met+(-0.1432)Trp;0.828,0.857,0.821,0.829,0.826,0.787,0.816,0.814,(3.8740)+(0.0097)Pro+(-0.0082)Val+(-0.2224)Met+(0.1212)Phe+(-0.1346)Trp;0.828,0.850,0.830,0.836,0.820,0.854,0.815,0.831,(5.861

7)+(0.0108)Gln+(-0.1024)His+(0.0006)Ala+(-0.0610)Met+(-0.0955)Trp;0.828,0.854,0.808,0.812,0.817,0.850,0.744,0.806,(9.1376)+(-0.0816)His+(0.0336)Thr+(-0.0098)Arg+(-0.1082)Met+(-0.1014)Trp;0.828,0.849,0.796,0.780,0.806,0.817,0.801,0.801,(4.0865)+(0.0025)Gly+(0.0042)Gln+(-0.0947)Cit+(0.0633)Ile+(-0.1843)Trp;0.828,0.854,0.788,0.778,0.799,0.829,0.761,0.792,(7.8409)+(-0.0998)His+(0.0167)Thr+(-0.0029)Tyr+(0.0293)Orn+(-0.1062)Trp;0.828,0.850,0.728
,0.697,0.710,0.825,0.776,0.752,(0.8245)+(0.0451)Ser+(-0.1587)His+(-0.0068)Ala+(0.0070)Pro+(0.0940)Phe;0.828,0.862,0.762,0.757,0.767,0.767,0.758,0.762,(0.7302)+(0.0313)Ser+(-0.0016)Gln+(-0.0019)Orn+(0.0741)Phe+(-0.1769)Trp;0.828,0.848,0.704,0.653,0.703,0.805,0.765,0.732,(0.2711)+(0.0437)Ser+(-0.1731)His+(-0.0035)Pro+(0.0406)Ile+(0.0695)Phe;0.828,0.854,0.790,0.776,0.802,0.854,0.755,0.797,(5.8693)+(0.0397)Ser+(-0.0880)His+(-0.0390)Cit+(0.0235)Tyr+(-0.1103)Trp;0.828,0.850,0.777,0.770,0.739,0.816,0.846,0.793,(4.6843)+(0.0010)Gln+(-0.0337)Val+(0.1627)Ile+(-0.0227)Leu+(-0.1375)Trp;0.828,0.846,0.735,0.701,0.730,0.810,0.784,0.756,(0.0890)+(0.0426)Ser+(-0.0039)Gly+(0.0047)Gln+(-0.1796)His+(0.0844)Phe;0.828,0.851,0.801,0.812,0.794,0.834,0.765,0.801,(3.7598)+(0.0370)Ser+(-0.1242)Asn+(0.0034)Gln+(0.0072)Pro+(-0.1379)Trp;0.828,0.851,0.774,0.757,0.799,0.818,0.736,0.777,(3.8631)+(0.0333)Ser+(-0.0880)Cit+(0.0073)Pro+(0.0145)Leu+(-0.1762)Trp;0.828,0.847,0.725,0.674,0.726,0.825,0.785,0.753,(2.7292)+(0.0503)Ser+(-0.0045)Gly+(-0.1413)His+(-0.0132)Lys+(0.0641)Ile;0.828,0.849,0.802,0.803,0.808,0.840,0.763,0.803,(8.8238)+(-0.0397)Asn+(0.0009)Gly+(-0.0861)His+(0.0243)Thr+(-0.1045)Trp;0.828,0.849,0.787,0.780,0.793,0.817,0.771,0.790,(7.7883)+(-0.0975)His+(0.0168)Thr+(0.0057)Pro+(0.0048)Lys+(-0.1123)Trp;0.828,0.849,0.789,0.778,0.821,0.801,0.742,0.785,(4.0292)+(0.0032)Gly+(-0.1305)Cit+(0.0451)Orn+(0.0775)Phe+(-0.1810)Trp;0.828,0.850,0.790,0.786,0.800,0.8

29,0.752,0.792,(8.5438)+(-0.0915)His+(0.0231)Thr+(-0.0143)Arg+(0.0066)Pro+(-0.1099)Trp;0.828,0.853,0.809,0.808,0.820,0.849,0.761,0.810,(9.3511)+(-0.0403)Asn+(-0.0736)His+(0.0273)Thr+(-0.0413)Cit+(-0.1104)Trp;0.828,0.854,0.787,0.775,0.796,0.849,0.757,0.794,(5.8493)+(0.0399)Ser+(-0.0960)His+(-0.0112)Arg+(0.0234)Tyr+(-0.1034)Trp;0.828,0.851,0.798,0.784,0.827,0.801,0.769,0.795,(4.5576)+(-0.1261)Cit+(0.0026)Pro+(0.0444)Orn+(0.0727)Phe+(-0.1817)Trp;0.828,0.849,0.803,0.784,0.824,0.828,0.794,0.807,(6.7837)+(-0.0439)Asn+(-0.1073)Cit+(0.0431)Orn+(0.0487)Ile+(-0.1659)Trp;0.828,0.860,0.781,0.771,0.785,0.765,0.812,0.783,(0.8830)+(0.0395)Ser+(-0.0080)Gly+(-0.0013)Orn+(0.0673)Phe+(-0.1768)Trp;0.828,0.850,0.722,0.681,0.712,0.831,0.772,0.749,(2.6070)+(0.0406)Ser+(-0.1312)His+(-0.0101)Lys+(0.1024)Ile+(-0.0292)Leu;0.828,0.847,0.823,0.829,0.812,0.848,0.811,0.825,(5.9187)+(0.0001)Gly+(0.0099)Gln+(-0.1078)His+(-0.0006)Ala+(-0.0993)Trp;0.828,0.858,0.814,0.803,0.808,0.836,0.841,0.822,(0.9280)+(0.0126)Gln+(-0.1554)His+(-0.0006)Ala+(-0.2319)Met+(0.1261)Phe;0.828,0.858,0.810,0.794,0.820,0.820,0.825,0.815,(6.3147)+(-0.0907)His+(-0.0540)Cit+(0.0030)Arg+(0.1148)Phe+(-0.1261)Trp;0.828,0.851,0.721,0.682,0.726,0.815,0.746,0.742,(1.1095)+(0.0463)Ser+(-0.1625)His+(0.0164)Orn+(-0.0143)Lys+(0.0995)Phe;0.828,0.852,0.789,0.763,0.790,0.818,0.835,0.801,(7.5751)+(-0.0916)His+(-0.0022)Arg+(0.0008)Pro+(0.0642)Ile+(-0.1197)Trp;0.828,0.856,0.794,0.794,0.786,0.765,0.832,0.794,(3.3628)+(0.0039)Pro+(-0.0272)Val+(0.0409)Leu+(0.0764)Phe+(-0.1730)Trp;0.828,0.848,0.728,0.684,0.728,0.831,0.769,0.753,(3.0106)+(0.0487)Ser+(-0.0607)Asn+(-0.1330)His+(-0.0083)Lys+(0.0646)Ile;0.827,0.850,0.782,0.760,0.750,0.848,0.858,0.804,(2.1278)+(0.0082)Gln+(-0.1613)His+(-0.0070)Ala+(0.0429)Ile+(0.0536)Phe;0.827,0.853,0.810,0.815,0.823,0.852,0.739,0.807,(5.0590)+(0.0356)Ser+(-0.0601)Cit+(-0.1187)Met+(0.0051)Lys+(-0.1362)Trp;0.827,0.848,0.776,0.772,0.737,0.810,0.842,0.790,

(4.9948)+(0.0010)Gln+(-0.0137)Tyr+(-0.0396)Val+(0.1470)Ile+(-0.1350)Trp;0.827,0.847,0.797,0.788,0.804,0.833,0.780,0.801,(8.2574)+(-0.1014)His+(0.0216)Thr+(-0.0026)Ala+(0.0087)Val+(-0.1141)Trp;0.827,0.853,0.806,0.797,0.833,0.811,0.769,0.803,(4.8499)+(0.0204)Thr+(-0.1011)Cit+(-0.0124)Lys+(0.1007)Phe+(-0.1809)Trp;0.827,0.849,0.776,0.757,0.792,0.787,0.783,0.780,(3.2972)+(0.0047)Gly+(-0.1045)Cit+(0.0529)Ile+(0.0687)Phe+(-0.1909)Trp;0.827,0.847,0.778,0.756,0.804,0.813,0.760,0.783,(5.1809)+(0.0037)Gly+(-0.1181)Cit+(0.0385)Orn+(0.0538)Ile+(-0.1802)Trp;0.827,0.850,0.791,0.780,0.739,0.861,0.883,0.815,(4.9612)+(-0.0074)Ala+(0.0091)Pro+(-0.0530)Val+(-0.2482)Met+(0.1898)Ile;0.827,0.849,0.778,0.770,0.803,0.821,0.721,0.778,(4.2093)+(0.0328)Ser+(-0.0854)Cit+(0.0085)Pro+(0.0032)Val+(-0.1682)Trp;0.827,0.847,0.788,0.778,0.801,0.824,0.764,0.792,(7.9211)+(0.0011)Gly+(-0.1045)His+(0.0197)Thr+(0.0077)Val+(-0.1147)Trp;0.827,0.850,0.797,0.786,0.801,0.829,0.795,0.803,(8.0716)+(-0.0864)His+(-0.0041)Ala+(0.0097)Pro+(0.0337)Orn+(-0.1004)Trp;0.827,0.851,0.820,0.803,0.817,0.843,0.853,0.829,(6.9051)+(-0.0064)Ala+(-0.0703)Cit+(-0.0669)Met+(0.0809)Ile+(-0.1471)Trp;0.827,0.855,0.820,0.811,0.814,0.815,0.859,0.825,(3.7719)+(-0.0057)Ala+(-0.1984)Met+(0.0609)Ile+(0.0872)Phe+(-0.1486)Trp;0.827,0.859,0.824,0.831,0.824,0.792,0.830,0.819,(4.8838)+(-0.0753)Asn+(0.0058)Pro+(-0.0094)Val+(0.0905)Phe+(-0.1433)Trp;0.827,0.849,0.808,0.817,0.802,0.851,0.765,0.809,(4.7680)+(0.0367)Ser+(-0.1000)Asn+(-0.0027)Ala+(0.0238)Orn+(-0.1304)Trp;0.827,0.851,0.788,0.793,0.788,0.828,0.746,0.789,(4.2402)+(0.0393)Ser+(-0.1163)Asn+(0.0065)Pro+(0.0159)Orn+(-0.1366)Trp;0.827,0.849,0.731,0.686,0.729,0.831,0.785,0.758,(2.9288)+(0.0510)Ser+(-0.0698)Asn+(-0.0028)Gly+(-0.1371)His+(0.0575)Ile;0.827,0.849,0.777,0.758,0.789,0.812,0.776,0.784,(7.7973)+(-0.1125)His+(0.0223)Thr+(-0.0039)Tyr+(0.0255)Leu+(-0.1219)Trp;0.827,0.848,0.788,0.784,0.793,0.823,0.766,0.792,(8.0534)+(-0.093

7)His+(0.0188)Thr+(0.0061)Pro+(-0.0019)Tyr+(-0.1089)Trp;0.827,0.853,0.772,0.743,0.767,0.843,0.810,0.791,(6.0576)+(-0.1229)His+(0.0322)Thr+(-0.0046)Ala+(-0.2276)Met+(0.0759)Ile;0.827,0.846,0.787,0.772,0.748,0.858,0.860,0.809,(3.6093)+(0.0071)Gln+(-0.1258)His+(-0.0070)Ala+(0.1160)Ile+(-0.0421)Leu;0.827,0.856,0.798,0.774,0.800,0.825,0.841,0.810,(7.7305)+(-0.0791)His+(0.0029)Pro+(-0.0928)Met+(0.0686)Ile+(-0.1125)Trp;0.827,0.853,0.787,0.761,0.787,0.816,0.835,0.800,(7.3876)+(-0.0950)His+(-0.0014)Tyr+(0.0032)Lys+(0.0635)Ile+(-0.1215)Trp;0.827,0.852,0.805,0.796,0.830,0.808,0.776,0.803,(3.5652)+(0.0029)Gln+(-0.1276)Cit+(0.0417)Orn+(0.0733)Phe+(-0.1849)Trp;0.827,0.851,0.829,0.836,0.818,0.856,0.813,0.831,(5.8718)+(0.0006)Gly+(0.0107)Gln+(-0.1019)His+(-0.0575)Met+(-0.0951)Trp;0.827,0.856,0.838,0.850,0.841,0.799,0.828,0.829,(1.5049)+(0.0008)Gly+(0.0061)Gln+(-0.2450)Met+(0.1134)Phe+(-0.1488)Trp;0.827,0.844,0.731,0.694,0.732,0.813,0.768,0.752,(1.3439)+(0.0524)Ser+(-0.0035)Gly+(-0.1582)His+(-0.0130)Lys+(0.1020)Phe;0.827,0.854,0.796,0.791,0.796,0.815,0.797,0.800,(3.7806)+(0.0042)Gln+(0.0222)Thr+(-0.2624)Met+(0.0658)Ile+(-0.1575)Trp;0.827,0.850,0.719,0.698,0.709,0.799,0.737,0.736,(0.8713)+(0.0424)Ser+(-0.1586)His+(-0.0483)Tyr+(0.0170)Orn+(0.1124)Phe;0.827,0.849,0.771,0.763,0.736,0.813,0.839,0.788,(4.8623)+(0.0064)Thr+(-0.0027)Pro+(-0.0413)Val+(0.1509)Ile+(-0.1426)Trp;0.827,0.847,0.777,0.771,0.739,0.814,0.849,0.793,(4.8008)+(0.0009)Gln+(-0.0019)Pro+(-0.0404)Val+(0.1488)Ile+(-0.1398)Trp;0.827,0.853,0.791,0.786,0.799,0.856,0.744,0.796,(6.2870)+(0.0390)Ser+(-0.0800)His+(-0.0331)Cit+(-0.0031)Arg+(-0.0985)Trp;0.827,0.855,0.825,0.824,0.823,0.802,0.852,0.825,(4.0069)+(-0.0311)Val+(-0.2139)Met+(0.0545)Leu+(0.1181)Phe+(-0.1400)Trp;0.827,0.852,0.783,0.762,0.756,0.866,0.839,0.805,(4.7391)+(-0.0676)Cit+(-0.0551)Val+(-0.2610)Met+(0.0423)Orn+(0.1825)Ile;0.827,0.848,0.778,0.768,0.741,0.818,0.853,0.795,(5.3954)+(-0.0004)Gly+(-0.0402)

Val+(-0.0037)Lys+(0.1498)Ile+(-0.1336)Trp;0.827,0.847,0.777,0.771,0.738,0.810,0.849,0.792,(5.5222)+(-0.0008)Gly+(-0.0130)Tyr+(-0.0400)Val+(0.1489)Ile+(-0.1319)Trp;0.827,0.851,0.813,0.796,0.802,0.842,0.857,0.824,(6.3744)+(-0.0082)Ala+(-0.0838)Cit+(0.0070)Arg+(0.0809)Ile+(-0.1601)Trp;0.827,0.851,0.794,0.805,0.803,0.843,0.714,0.791,(4.1990)+(0.0299)Ser+(0.0114)Thr+(-0.1802)Met+(0.0179)Orn+(-0.1413)Trp;0.827,0.850,0.786,0.782,0.790,0.850,0.745,0.792,(6.1178)+(0.0388)Ser+(-0.0894)His+(0.0005)Ala+(-0.0090)Arg+(-0.0943)Trp;0.827,0.850,0.802,0.791,0.833,0.806,0.766,0.799,(4.8146)+(-0.1218)Cit+(-0.0064)Arg+(0.0469)Orn+(0.0759)Phe+(-0.1780)Trp;0.827,0.849,0.778,0.771,0.740,0.817,0.848,0.794,(5.1478)+(-0.0023)Pro+(-0.0339)Val+(0.1674)Ile+(-0.0228)Leu+(-0.1341)Trp;0.827,0.854,0.819,0.807,0.817,0.843,0.834,0.825,(0.8423)+(0.0136)Gln+(-0.1498)His+(-0.0404)Cit+(-0.2317)Met+(0.1292)Phe;0.827,0.851,0.804,0.796,0.760,0.875,0.865,0.824,(3.2274)+(0.0056)Gln+(-0.0526)Cit+(-0.0514)Val+(-0.2952)Met+(0.1859)Ile;0.827,0.849,0.727,0.708,0.719,0.804,0.741,0.743,(1.1624)+(0.0468)Ser+(-0.1516)His+(-0.0385)Tyr+(-0.0082)Lys+(0.1212)Phe;0.827,0.848,0.777,0.770,0.739,0.815,0.849,0.793,(5.1696)+(-0.0006)Gly+(-0.0343)Val+(0.1637)Ile+(-0.0216)Leu+(-0.1346)Trp;0.827,0.850,0.826,0.827,0.817,0.851,0.823,0.829,(5.8393)+(0.0099)Gln+(-0.1133)His+(-0.0016)Ala+(0.0188)Tyr+(-0.1059)Trp;0.827,0.850,0.816,0.821,0.810,0.838,0.803,0.818,(5.8788)+(0.0111)Gln+(-0.1114)His+(-0.0161)Arg+(0.0081)Pro+(-0.1031)Trp;0.827,0.857,0.799,0.774,0.801,0.829,0.840,0.811,(7.6246)+(-0.0809)His+(0.0046)Arg+(-0.0934)Met+(0.0719)Ile+(-0.1120)Trp;0.827,0.855,0.802,0.790,0.752,0.874,0.887,0.826,(5.5016)+(-0.0064)Ala+(-0.0480)Cit+(-0.0506)Val+(-0.2060)Met+(0.1956)Ile;0.827,0.850,0.812,0.817,0.824,0.859,0.739,0.810,(5.3098)+(0.0362)Ser+(-0.0001)Ala+(-0.0595)Cit+(-0.1007)Met+(-0.1320)Trp;0.827,0.845,0.763,0.738,0.719,0.842,0.861,0.790,(5.2913)+(-0.0938)His+(-0.0068)Ala+(-0

.0363)Val+(0.0268)Orn+(0.1378)Ile;0.827,0.844,0.719,0.679,0.724,0.813,0.750,0.741,(1.0930)+(0.0487)Ser+(-0.1638)His+(-0.0148)Lys+(0.0098)Leu+(0.0948)Phe;0.827,0.852,0.808,0.812,0.809,0.840,0.775,0.809,(4.1555)+(0.0453)Ser+(-0.0081)Gly+(-0.1524)Met+(0.0245)Orn+(-0.1359)Trp;0.827,0.852,0.789,0.780,0.806,0.831,0.744,0.790,(8.3636)+(-0.0975)His+(0.0212)Thr+(-0.0164)Arg+(0.0321)Orn+(-0.1078)Trp;0.827,0.850,0.780,0.774,0.800,0.824,0.723,0.781,(4.3899)+(0.0328)Ser+(-0.0006)Thr+(-0.0819)Cit+(0.0096)Pro+(-0.1624)Trp;0.826,0.851,0.815,0.819,0.831,0.808,0.774,0.808,(4.9331)+(-0.0630)Asn+(0.0056)Gly+(-0.0905)Cit+(0.1012)Phe+(-0.1583)Trp;0.826,0.851,0.816,0.799,0.809,0.844,0.854,0.827,(6.9329)+(-0.0075)Ala+(-0.0781)Cit+(-0.0043)Lys+(0.0828)Ile+(-0.1529)Trp;0.826,0.852,0.821,0.825,0.824,0.861,0.772,0.821,(4.5848)+(0.0414)Ser+(-0.0609)Asn+(0.0316)Tyr+(-0.1338)Met+(-0.1378)Trp;0.826,0.847,0.740,0.707,0.738,0.838,0.760,0.761,(1.3284)+(0.0374)Ser+(0.0070)Gln+(-0.1636)His+(-0.0268)Arg+(0.0554)Ile;0.826,0.846,0.755,0.745,0.703,0.857,0.816,0.781,(2.8886)+(0.0464)Ser+(-0.1627)Asn+(-0.0188)Arg+(-0.0566)Val+(0.1775)Ile;0.826,0.845,0.732,0.702,0.719,0.824,0.769,0.754,(0.9437)+(0.0444)Ser+(-0.1593)His+(-0.0046)Ala+(-0.0007)Val+(0.1004)Phe;0.826,0.849,0.803,0.786,0.813,0.817,0.820,0.809,(4.2918)+(0.0046)Gln+(-0.0913)Cit+(0.0004)Pro+(0.0613)Ile+(-0.1843)Trp;0.826,0.854,0.820,0.819,0.815,0.792,0.853,0.820,(2.9603)+(-0.0963)Asn+(0.0054)Gln+(0.0375)Ile+(0.0534)Phe+(-0.1727)Trp;0.826,0.853,0.835,0.835,0.852,0.812,0.818,0.829,(5.1742)+(-0.0138)Asn+(-0.0727)Cit+(-0.1417)Met+(0.1200)Phe+(-0.1486)Trp;0.826,0.853,0.793,0.765,0.798,0.825,0.832,0.805,(7.7375)+(-0.0760)His+(-0.0455)Cit+(0.0046)Tyr+(0.0681)Ile+(-0.1295)Trp;0.826,0.851,0.803,0.784,0.783,0.860,0.857,0.821,(3.3224)+(0.0107)Gln+(-0.1348)His+(-0.0041)Ala+(-0.1723)Met+(0.0706)Ile;0.826,0.850,0.731,0.697,0.721,0.826,0.771,0.754,(0.8772)+(0.

0430)Ser+(-0.1617)His+(-0.0052)Ala+(0.0139)Orn+(0.0949)Phe;0.826,0.85
1,0.818,0.819,0.823,0.855,0.776,0.818,(6.0999)+(0.0469)Ser+(-0.0796)A
sn+(-0.0049)Gly+(-0.0569)Cit+(-0.1328)Trp;0.826,0.848,0.819,0.824,0.8
08,0.841,0.814,0.822,(5.7537)+(0.0093)Gln+(-0.1112)His+(-0.0010)Ala+(
0.0061)Lys+(-0.1037)Trp;0.826,0.846,0.737,0.706,0.724,0.822,0.787,0.7
60,(1.0786)+(0.0484)Ser+(-0.0028)Gly+(-0.1586)His+(-0.0047)Ala+(0.097
5)Phe;0.826,0.847,0.757,0.733,0.732,0.808,0.831,0.776,(1.6352)+(0.007
0)Gln+(-0.1526)His+(0.0931)Ile+(-0.0485)Leu+(0.0673)Phe;0.826,0.852,0
.764,0.741,0.760,0.798,0.812,0.777,(2.3850)+(0.0466)Ser+(-0.0083)Gly+
(-0.0157)Lys+(0.0636)Ile+(-0.1624)Trp;0.826,0.849,0.789,0.789,0.769,0
.805,0.821,0.796,(3.9846)+(0.0022)Gln+(-0.0018)Orn+(0.1392)Ile+(-0.06
51)Leu+(-0.1515)Trp;0.826,0.848,0.777,0.769,0.740,0.817,0.847,0.793,(
5.2497)+(-0.0344)Val+(-0.0025)Lys+(0.1636)Ile+(-0.0200)Leu+(-0.1324)T
rp;0.826,0.851,0.788,0.762,0.790,0.817,0.833,0.800,(7.4969)+(-0.0943)
His+(-0.0040)Arg+(0.0040)Lys+(0.0629)Ile+(-0.1219)Trp;0.826,0.849,0.7
87,0.793,0.787,0.825,0.742,0.787,(4.5922)+(0.0383)Ser+(-0.1147)Asn+(0
.0047)Thr+(0.0073)Pro+(-0.1379)Trp;0.826,0.851,0.802,0.798,0.797,0.82
7,0.804,0.807,(4.8022)+(0.0504)Ser+(-0.1054)Asn+(-0.0073)Gly+(0.0082)
Pro+(-0.1385)Trp;0.826,0.850,0.785,0.781,0.804,0.823,0.728,0.784,(4.0
028)+(0.0302)Ser+(0.0016)Gln+(-0.0849)Cit+(0.0091)Pro+(-0.1655)Trp;0.
826,0.848,0.793,0.794,0.772,0.812,0.825,0.800,(4.0409)+(0.0024)Gln+(-
0.0047)Pro+(0.1467)Ile+(-0.0666)Leu+(-0.1503)Trp;0.826,0.858,0.812,0.
804,0.805,0.832,0.835,0.819,(0.9499)+(0.0125)Gln+(-0.1543)His+(-0.009
6)Tyr+(-0.2231)Met+(0.1284)Phe;0.826,0.854,0.790,0.788,0.788,0.768,0.
816,0.790,(3.1586)+(0.0090)Thr+(-0.0282)Val+(0.0429)Leu+(0.0761)Phe+(
-0.1794)Trp;0.826,0.851,0.805,0.822,0.809,0.847,0.725,0.801,(3.9784)+
(0.0269)Ser+(0.0026)Gln+(0.0141)Thr+(-0.1852)Met+(-0.1433)Trp;0.826,0
.850,0.803,0.781,0.826,0.831,0.793,0.808,(6.3997)+(-0.0974)Cit+(-0.10

76)Met+(0.0392)Orn+(0.0573)Ile+(-0.1573)Trp;0.826,0.854,0.792,0.782,0.800,0.811,0.789,0.795,(5.6225)+(-0.0256)Asn+(0.0260)Thr+(-0.2203)Met+(0.0642)Ile+(-0.1515)Trp;0.826,0.844,0.722,0.687,0.695,0.829,0.794,0.751,(2.1006)+(0.0321)Ser+(0.0020)Gln+(-0.1293)His+(-0.0274)Val+(0.1144)Ile;0.826,0.845,0.731,0.701,0.720,0.822,0.770,0.753,(0.9371)+(0.0444)Ser+(-0.1602)His+(0.0004)Thr+(-0.0048)Ala+(0.0992)Phe;0.826,0.851,0.830,0.842,0.847,0.857,0.747,0.823,(5.8893)+(0.0056)Gln+(0.0240)Thr+(-0.0673)Cit+(-0.1683)Met+(-0.1459)Trp;0.826,0.851,0.782,0.776,0.801,0.832,0.724,0.783,(4.6289)+(0.0335)Ser+(-0.0804)Cit+(0.0098)Pro+(-0.0038)Lys+(-0.1579)Trp;0.826,0.848,0.743,0.719,0.744,0.819,0.749,0.758,(-0.3342)+(0.0417)Ser+(0.0071)Gln+(-0.1785)His+(-0.0297)Arg+(0.0990)Phe;0.826,0.847,0.789,0.777,0.802,0.820,0.772,0.793,(7.9120)+(-0.1048)His+(0.0193)Thr+(0.0069)Val+(0.0030)Lys+(-0.1165)Trp;0.826,0.851,0.820,0.814,0.836,0.797,0.817,0.816,(5.6032)+(-0.0522)Asn+(-0.0849)Cit+(0.0056)Pro+(0.0902)Phe+(-0.1630)Trp;0.826,0.850,0.794,0.793,0.773,0.807,0.830,0.801,(4.1147)+(-0.0016)Gly+(0.0025)Gln+(0.1381)Ile+(-0.0650)Leu+(-0.1514)Trp;0.826,0.851,0.774,0.763,0.740,0.816,0.843,0.790,(4.8579)+(-0.0028)Pro+(-0.0418)Val+(0.0133)Orn+(0.1495)Ile+(-0.1386)Trp;0.826,0.847,0.775,0.770,0.737,0.811,0.845,0.791,(5.3801)+(-0.0006)Pro+(-0.0121)Tyr+(-0.0400)Val+(0.1496)Ile+(-0.1327)Trp;0.826,0.845,0.789,0.765,0.814,0.815,0.784,0.794,(5.7596)+(-0.1121)Cit+(0.0000)Pro+(0.0395)Orn+(0.0509)Ile+(-0.1782)Trp;0.826,0.848,0.803,0.791,0.807,0.816,0.818,0.808,(4.4341)+(0.0050)Gln+(-0.0882)Cit+(-0.0128)Tyr+(0.0632)Ile+(-0.1783)Trp;0.826,0.849,0.831,0.832,0.841,0.813,0.819,0.826,(5.7526)+(-0.0524)Asn+(-0.0789)Cit+(-0.0031)Val+(0.1003)Phe+(-0.1543)Trp;0.826,0.853,0.806,0.800,0.791,0.833,0.833,0.814,(6.3740)+(-0.0068)Arg+(-0.1362)Met+(0.1541)Ile+(-0.0632)Leu+(-0.1229)Trp;0.826,0.845,0.728,0.694,0.716,0.824,0.775,0.752,(0.8690)+(0.0451)Ser+(-0.1630)His+(-0.005

4)Ala+(0.0083)Leu+(0.0908)Phe;0.826,0.856,0.839,0.850,0.837,0.804,0.840,0.833,(3.0069)+(-0.0997)Asn+(0.0008)Gly+(0.0058)Gln+(0.0755)Phe+(-0.1606)Trp;0.826,0.851,0.815,0.814,0.824,0.818,0.799,0.814,(4.5251)+(0.0188)Thr+(-0.0070)Ala+(-0.0959)Cit+(0.1036)Phe+(-0.1779)Trp;0.826,0.848,0.732,0.716,0.715,0.811,0.754,0.749,(1.0561)+(0.0446)Ser+(-0.1527)His+(-0.0028)Ala+(-0.0383)Tyr+(0.1177)Phe;0.826,0.849,0.783,0.759,0.804,0.823,0.770,0.789,(8.0925)+(-0.0993)His+(0.0241)Thr+(-0.0447)Cit+(0.0265)Leu+(-0.1303)Trp;0.826,0.848,0.819,0.820,0.812,0.844,0.811,0.822,(5.6985)+(0.0006)Gly+(0.0096)Gln+(-0.1154)His+(0.0157)Tyr+(-0.1062)Trp;0.826,0.846,0.703,0.651,0.702,0.804,0.769,0.732,(0.1166)+(0.0461)Ser+(-0.1695)His+(-0.0053)Thr+(0.0375)Ile+(0.0688)Phe;0.826,0.849,0.783,0.757,0.791,0.825,0.807,0.795,(7.7852)+(-0.0994)His+(-0.0209)Val+(0.0360)Orn+(0.0525)Leu+(-0.1092)Trp;0.826,0.843,0.724,0.690,0.725,0.812,0.748,0.744,(1.1628)+(0.0474)Ser+(-0.1600)His+(-0.0006)Val+(-0.0122)Lys+(0.1042)Phe;0.826,0.848,0.794,0.773,0.821,0.835,0.765,0.799,(8.1874)+(-0.0706)His+(-0.0805)Cit+(0.0068)Pro+(0.0550)Orn+(-0.1177)Trp;0.826,0.847,0.722,0.692,0.702,0.823,0.766,0.746,(2.7623)+(0.0360)Ser+(-0.1285)His+(-0.0236)Tyr+(0.1060)Ile+(-0.0332)Leu;0.826,0.848,0.798,0.790,0.744,0.868,0.884,0.822,(4.5064)+(-0.0056)Ala+(-0.0555)Val+(-0.2688)Met+(0.0082)Lys+(0.1989)Ile;0.825,0.850,0.796,0.796,0.799,0.828,0.766,0.797,(3.7620)+(0.0446)Ser+(-0.0605)Asn+(-0.1329)Met+(0.0232)Leu+(-0.1413)Trp;0.825,0.849,0.796,0.790,0.799,0.819,0.790,0.799,(3.3104)+(0.0505)Ser+(-0.0071)Gly+(-0.1788)Met+(0.0229)Leu+(-0.1458)Trp;0.825,0.848,0.763,0.733,0.770,0.815,0.790,0.777,(3.0716)+(0.0079)Gly+(-0.1333)His+(-0.2526)Met+(0.0525)Ile+(0.1080)Phe;0.825,0.855,0.843,0.857,0.847,0.802,0.829,0.834,(1.7185)+(0.0070)Gln+(-0.0107)Arg+(-0.2304)Met+(0.1141)Phe+(-0.1486)Trp;0.825,0.844,0.722,0.683,0.708,0.828,0.779,0.749,(2.1909)+(0.0405)Ser+(-0.1309)His+(-0.0078)Thr+(0.1085)Ile

+(-0.0375)Leu;0.825,0.853,0.852,0.864,0.838,0.830,0.865,0.849,(3.1978)+(-0.0869)Asn+(0.0061)Gln+(-0.0051)Ala+(0.0844)Phe+(-0.1536)Trp;0.825,0.850,0.788,0.782,0.773,0.804,0.823,0.795,(4.8509)+(-0.0007)Gly+(0.0034)Orn+(0.1381)Ile+(-0.0646)Leu+(-0.1464)Trp;0.825,0.852,0.779,0.776,0.797,0.825,0.719,0.779,(4.5198)+(0.0326)Ser+(-0.0807)Cit+(0.0101)Pro+(-0.0068)Tyr+(-0.1596)Trp;0.825,0.853,0.839,0.840,0.850,0.819,0.829,0.834,(5.0561)+(-0.0028)Ala+(-0.0742)Cit+(-0.1344)Met+(0.1244)Phe+(-0.1475)Trp;0.825,0.849,0.790,0.773,0.805,0.819,0.784,0.795,(7.8072)+(-0.0951)His+(0.0053)Pro+(0.0032)Val+(0.0311)Orn+(-0.1066)Trp;0.825,0.858,0.811,0.801,0.818,0.816,0.820,0.814,(6.4480)+(-0.0883)His+(-0.0513)Cit+(-0.0133)Tyr+(0.1222)Phe+(-0.1208)Trp;0.825,0.853,0.828,0.830,0.837,0.812,0.813,0.823,(3.1586)+(0.0056)Gln+(-0.0985)Cit+(-0.0084)Lys+(0.0952)Phe+(-0.1742)Trp;0.825,0.856,0.823,0.824,0.815,0.796,0.859,0.823,(5.0060)+(-0.0774)Asn+(-0.0295)Val+(0.0468)Leu+(0.0881)Phe+(-0.1484)Trp;0.825,0.854,0.797,0.787,0.803,0.780,0.822,0.798,(4.3270)+(-0.0952)Asn+(0.0146)Thr+(0.0355)Ile+(0.0555)Phe+(-0.1731)Trp;0.825,0.846,0.777,0.769,0.739,0.814,0.852,0.794,(5.2069)+(-0.0005)Gly+(-0.0015)Pro+(-0.0407)Val+(0.1499)Ile+(-0.1372)Trp;0.825,0.853,0.831,0.829,0.845,0.808,0.821,0.826,(4.5462)+(-0.0805)Cit+(0.0110)Arg+(-0.1708)Met+(0.1227)Phe+(-0.1519)Trp;0.825,0.852,0.806,0.810,0.819,0.852,0.734,0.804,(4.1320)+(0.0323)Ser+(0.0134)Thr+(0.0290)Tyr+(-0.2172)Met+(-0.1488)Trp;0.825,0.851,0.835,0.835,0.850,0.811,0.817,0.828,(4.9256)+(-0.0718)Cit+(-0.0018)Val+(-0.1540)Met+(0.1240)Phe+(-0.1474)Trp;0.825,0.850,0.825,0.840,0.813,0.858,0.785,0.824,(4.1793)+(0.0339)Ser+(-0.1081)Asn+(0.0042)Gln+(-0.0018)Ala+(-0.1330)Trp;0.825,0.855,0.846,0.859,0.843,0.812,0.844,0.840,(1.7536)+(0.0062)Gln+(-0.0024)Ala+(-0.2246)Met+(0.1138)Phe+(-0.1468)Trp;0.825,0.848,0.781,0.775,0.745,0.822,0.841,0.796,(5.9549)+(0.0006)Gly+(-0.0191)Arg+(-0.0425)Val+(0.1571)Ile+(-0.1284)T

rp;0.825,0.852,0.783,0.771,0.794,0.826,0.758,0.787,(4.1033)+(0.0325)Ser+(-0.0748)Cit+(-0.0152)Val+(0.0422)Leu+(-0.1678)Trp;0.825,0.847,0.725,0.681,0.724,0.828,0.770,0.751,(2.9184)+(0.0464)Ser+(-0.0764)Asn+(-0.1389)His+(0.0028)Thr+(0.0581)Ile;0.825,0.849,0.788,0.771,0.802,0.817,0.785,0.794,(7.5362)+(-0.0970)His+(0.0058)Pro+(0.0295)Orn+(0.0065)Lys+(-0.1084)Trp;0.825,0.849,0.791,0.790,0.771,0.806,0.824,0.798,(3.9797)+(0.0024)Gln+(-0.0021)Thr+(0.1400)Ile+(-0.0657)Leu+(-0.1500)Trp;0.825,0.846,0.815,0.819,0.807,0.837,0.807,0.817,(5.6708)+(0.0003)Gly+(0.0092)Gln+(-0.1129)His+(0.0057)Lys+(-0.1046)Trp;0.825,0.848,0.787,0.792,0.762,0.804,0.814,0.793,(4.3482)+(0.0026)Gln+(-0.0223)Tyr+(0.1420)Ile+(-0.0647)Leu+(-0.1422)Trp;0.825,0.845,0.719,0.680,0.706,0.824,0.773,0.746,(2.3672)+(0.0367)Ser+(-0.1372)His+(-0.0027)Pro+(0.1060)Ile+(-0.0346)Leu;0.825,0.851,0.837,0.844,0.830,0.863,0.816,0.838,(6.0344)+(0.0110)Gln+(-0.0925)His+(-0.0334)Cit+(-0.0465)Met+(-0.0982)Trp;0.825,0.850,0.815,0.796,0.808,0.842,0.858,0.826,(6.4460)+(-0.0084)Ala+(-0.0810)Cit+(0.0112)Tyr+(0.0802)Ile+(-0.1624)Trp;0.825,0.849,0.786,0.759,0.802,0.815,0.799,0.794,(7.7063)+(-0.1028)His+(0.0038)Pro+(0.0291)Orn+(0.0181)Leu+(-0.1139)Trp;0.825,0.848,0.791,0.799,0.788,0.832,0.750,0.792,(4.6813)+(0.0400)Ser+(-0.1091)Asn+(0.0088)Pro+(-0.0025)Val+(-0.1316)Trp;0.825,0.850,0.779,0.758,0.752,0.850,0.842,0.800,(5.9642)+(0.0042)Gly+(-0.0671)His+(-0.0413)Val+(-0.2134)Met+(0.1683)Ile;0.825,0.853,0.808,0.799,0.815,0.783,0.834,0.808,(3.4961)+(0.0030)Pro+(-0.2436)Met+(0.0499)Ile+(0.0874)Phe+(-0.1527)Trp;0.825,0.848,0.782,0.783,0.762,0.802,0.806,0.788,(5.1882)+(0.0038)Thr+(-0.0223)Tyr+(0.1407)Ile+(-0.0631)Leu+(-0.1399)Trp;0.825,

0.846,0.797,0.793,0.800,0.835,0.773,0.800,(8.1324)+(-0.0951)His+(0.0197)Thr+(-0.0015)Ala+(0.0057)Lys+(-0.1082)Trp;0.825,0.848,0.794,0.782,0.805,0.837,0.772,0.799,(4.2370)+(0.0333)Ser+(-0.0047)Ala+(-0.0785)Ci

t+(0.0242)Leu+(-0.1628)Trp;0.825,0.856,0.831,0.840,0.832,0.804,0.823,0.825,(4.9108)+(-0.0815)Asn+(-0.0103)Val+(0.0207)Orn+(0.0855)Phe+(-0.1372)Trp;0.825,0.846,0.811,0.800,0.838,0.835,0.764,0.809,(7.8413)+(-0.0532)Asn+(-0.1094)Cit+(0.0060)Pro+(0.0551)Orn+(-0.1498)Trp;0.825,0.844,0.722,0.687,0.724,0.812,0.745,0.742,(1.2454)+(0.0462)Ser+(-0.1623)His+(0.0036)Thr+(-0.0134)Lys+(0.1031)Phe;0.825,0.843,0.727,0.699,0.719,0.808,0.759,0.746,(0.0814)+(0.0378)Ser+(0.0041)Gln+(-0.1763)His+(-0.0029)Val+(0.0923)Phe;0.825,0.851,0.790,0.788,0.776,0.835,0.793,0.798,(4.5533)+(0.0431)Ser+(-0.1219)Asn+(-0.0290)Val+(0.0613)Leu+(-0.1301)Trp;0.825,0.848,0.793,0.773,0.808,0.787,0.822,0.797,(4.1520)+(-0.0952)Cit+(-0.0001)Pro+(0.0504)Ile+(0.0657)Phe+(-0.1880)Trp;0.825,0.854,0.825,0.830,0.823,0.804,0.831,0.822,(3.9661)+(-0.0051)Ala+(0.0111)Pro+(-0.1979)Met+(0.1103)Phe+(-0.1397)Trp;0.825,0.847,0.780,0.785,0.716,0.817,0.872,0.797,(4.0645)+(-0.1346)Asn+(-0.0475)Tyr+(-0.0583)Val+(0.1650)Ile+(0.0879)Phe;0.825,0.849,0.804,0.801,0.811,0.841,0.773,0.807,(8.8429)+(-0.0390)Asn+(-0.0869)His+(0.0241)Thr+(0.0058)Tyr+(-0.1073)Trp;0.825,0.848,0.806,0.806,0.813,0.850,0.759,0.807,(8.8568)+(-0.0792)His+(0.0244)Thr+(-0.0016)Ala+(-0.0412)Cit+(-0.1100)Trp;0.825,0.853,0.825,0.831,0.820,0.816,0.826,0.823,(4.9132)+(-0.0957)Asn+(0.0215)Thr+(-0.0062)Ala+(0.0876)Phe+(-0.1565)Trp;0.825,0.846,0.787,0.766,0.804,0.809,0.790,0.792,(5.6038)+(0.0109)Thr+(-0.0876)Cit+(-0.0000)Pro+(0.0608)Ile+(-0.1828)Trp;0.825,0.851,0.783,0.779,0.749,0.821,0.840,0.797,(6.1327)+(-0.0198)Arg+(-0.0348)Val+(0.1762)Ile+(-0.0259)Leu+(-0.1245)Trp;0.825,0.850,0.837,0.848,0.842,0.796,0.824,0.828,(4.4312)+(-0.0217)Asn+(-0.0058)Val+(-0.1734)Met+(0.1195)Phe+(-0.1329)Trp;0.825,0.846,0.730,0.711,0.717,0.795,0.762,0.746,(1.1420)+(0.0506)Ser+(-0.0046)Gly+(-0.1523)His+(-0.0485)Tyr+(0.1163)Phe;0.825,0.851,0.818,0.821,0.824,0.855,0.774,0.818,(5.4185)+(0.0441)Ser+(-0.0058)Gly+(-0.0527)Cit+(-0.1041)

Met+(-0.1314)Trp;0.825,0.850,0.795,0.788,0.727,0.857,0.910,0.820,(3.8953)+(-0.1276)Asn+(-0.0082)Ala+(-0.0595)Val+(0.1782)Ile+(0.0705)Phe;0.825,0.847,0.831,0.836,0.823,0.858,0.813,0.832,(6.0801)+(0.0103)Gln+(-0.0961)His+(-0.0006)Ala+(-0.0360)Cit+(-0.1025)Trp;0.825,0.851,0.776,0.772,0.737,0.813,0.839,0.790,(5.3969)+(-0.0135)Tyr+(-0.0332)Val+(0.1653)Ile+(-0.0226)Leu+(-0.1290)Trp;0.825,0.847,0.730,0.716,0.726,0.801,0.725,0.742,(1.1363)+(0.0495)Ser+(-0.1506)His+(-0.0213)Arg+(-0.0423)Tyr+(0.1257)Phe;0.825,0.849,0.788,0.783,0.772,0.804,0.823,0.796,(4.8851)+(-0.0007)Gly+(0.0013)Thr+(0.1383)Ile+(-0.0642)Leu+(-0.1473)Trp;0.825,0.850,0.804,0.815,0.806,0.764,0.799,0.796,(2.6152)+(0.0017)Gln+(0.0059)Thr+(-0.0080)Val+(0.0797)Phe+(-0.1720)Trp;0.825,0.848,0.793,0.784,0.739,0.869,0.875,0.817,(4.5340)+(0.0024)Gly+(-0.0056)Ala+(-0.0527)Val+(-0.2464)Met+(0.1969)Ile;0.825,0.852,0.795,0.785,0.777,0.809,0.852,0.806,(3.2128)+(0.0083)Thr+(-0.0102)Ala+(0.0559)Ile+(0.0558)Phe+(-0.1772)Trp;0.825,0.856,0.837,0.846,0.837,0.796,0.843,0.831,(3.1281)+(-0.0991)Asn+(0.0057)Gln+(0.0022)Pro+(0.0726)Phe+(-0.1616)Trp;0.825,0.847,0.812,0.828,0.808,0.849,0.754,0.810,(5.1183)+(0.0391)Ser+(-0.0638)Asn+(0.0001)Ala+(-0.0789)Met+(-0.1278)Trp;0.825,0.852,0.797,0.796,0.790,0.777,0.825,0.797,(3.3349)+(-0.0285)Val+(0.0133)Orn+(0.0425)Leu+(0.0721)Phe+(-0.1704)Trp;0.825,0.849,0.784,0.769,0.744,0.856,0.855,0.806,(5.2873)+(-0.0554)Asn+(-0.0583)Val+(-0.2360)Met+(0.0320)Orn+(0.1883)Ile;0.825,0.851,0.789,0.763,0.791,0.819,0.834,0.802,(7.5808)+(-0.0919)His+(-0.0020)Arg+(0.0010)Tyr+(0.0650)Ile+(-0.1199)Trp;0.825,0.850,0.811,0.824,0.807,0.841,0.764,0.809,(3.8496)+(0.0348)Ser+(-0.1214)Asn+(0.0033)Gln+(0.0180)Orn+(-0.1373)Trp;0.825,0.849,0.800,0.812,0.807,0.848,0.720,0.797,(4.7240)+(0.0291)Ser+(0.0154)Thr+(-0.0007)Ala+(-0.1700)Met+(-0.1400)Trp;0.825,0.848,0.714,0.670,0.706,0.823,0.768,0.742,(2.2445)+(0.0356)Ser+(-0.1405)His+(0.0094)Orn+(0.0987)Ile+(-0.0342)Leu

;0.824,0.851,0.828,0.831,0.824,0.850,0.817,0.830,(5.8720)+(0.0114)Gln+(-0.1154)His+(-0.0155)Arg+(0.0199)Tyr+(-0.1057)Trp;0.824,0.843,0.721,0.684,0.724,0.810,0.746,0.741,(1.0933)+(0.0477)Ser+(-0.1609)His+(0.0024)Pro+(-0.0130)Lys+(0.1011)Phe;0.824,0.854,0.815,0.817,0.831,0.787,0.799,0.809,(4.7929)+(-0.0979)Asn+(0.0190)Thr+(-0.0034)Lys+(0.0780)Phe+(-0.1620)Trp;0.824,0.854,0.813,0.817,0.835,0.787,0.778,0.804,(5.0099)+(-0.0875)Asn+(0.0230)Thr+(-0.0202)Arg+(0.0825)Phe+(-0.1663)Trp;0.824,0.850,0.812,0.825,0.810,0.843,0.758,0.809,(4.9291)+(0.0382)Ser+(-0.0693)Asn+(-0.0959)Met+(0.0067)Lys+(-0.1335)Trp;0.824,0.849,0.782,0.775,0.747,0.821,0.844,0.797,(6.0430)+(-0.0191)Arg+(0.0008)Pro+(-0.0426)Val+(0.1561)Ile+(-0.1282)Trp;0.824,0.850,0.725,0.678,0.728,0.829,0.768,0.751,(2.8302)+(0.0463)Ser+(-0.0776)Asn+(-0.1398)His+(0.0130)Orn+(0.0550)Ile;0.824,0.845,0.810,0.805,0.832,0.845,0.754,0.809,(7.1672)+(0.0100)Thr+(-0.0054)Ala+(-0.1148)Cit+(0.0558)Orn+(-0.1521)Trp;0.824,0.856,0.844,0.855,0.844,0.807,0.845,0.838,(3.1356)+(-0.0983)Asn+(0.0059)Gln+(-0.0033)Leu+(0.0777)Phe+(-0.1580)Trp;0.824,0.853,0.802,0.794,0.808,0.788,0.820,0.803,(2.9607)+(0.0028)Gly+(-0.2472)Met+(0.0541)Ile+(0.0899)Phe+(-0.1520)Trp;0.824,0.848,0.791,0.790,0.771,0.808,0.821,0.798,(4.0893)+(0.0025)Gln+(-0.0037)Lys+(0.1381)Ile+(-0.0629)Leu+(-0.1489)Trp;0.824,0.850,0.811,0.809,0.811,0.832,0.798,0.813,(4.8956)+(0.0477)Ser+(-0.1056)Asn+(-0.0076)Gly+(0.0224)Orn+(-0.1369)Trp;0.824,0.844,0.714,0.665,0.717,0.824,0.759,0.741,(2.5644)+(0.0436)Ser+(-0.1437)His+(0.0002)Thr+(-0.0125)Lys+(0.0645)Ile;0.824,0.850,0.708,0.661,0.715,0.807,0.743,0.732,(0.3244)+(0.0502)Ser+(-0.1660)His+(-0.0247)Arg+(0.0389)Ile+(0.0783)Phe;0.824,0.847,0.806,0.792,0.815,0.819,0.818,0.811,(4.3393)+(0.0052)Gln+(-0.0871)Cit+(-0.0070)Arg+(0.0621)Ile+(-0.1822)Trp;0.824,0.847,0.713,0.662,0.719,0.826,0.755,0.741,(2.5464)+(0.0425)Ser+(-0.1461)His+(0.0139)Orn+(-0.0138)Lys+(0.0613)Ile;0.824,0.847,0.794

,0.793,0.812,0.795,0.756,0.789,(4.7384)+(-0.1238)Cit+(-0.0332)Tyr+(0.0497)Orn+(0.0922)Phe+(-0.1676)Trp;0.824,0.844,0.722,0.705,0.712,0.795,0.738,0.737,(0.9395)+(0.0442)Ser+(-0.1551)His+(-0.0439)Tyr+(-0.0009)Val+(0.1180)Phe;0.824,0.853,0.806,0.819,0.802,0.766,0.811,0.800,(2.5721)+(0.0021)Gln+(0.0034)Pro+(-0.0082)Val+(0.0787)Phe+(-0.1692)Trp;0.824,0.852,0.800,0.811,0.801,0.766,0.798,0.794,(3.2380)+(0.0035)Pro+(-0.0092)Val+(0.0098)Orn+(0.0767)Phe+(-0.1633)Trp;0.824,0.849,0.798,0.812,0.812,0.848,0.694,0.792,(5.1182)+(0.0305)Ser+(0.0198)Thr+(-0.0156)Arg+(-0.1693)Met+(-0.1384)Trp;0.824,0.853,0.796,0.804,0.800,0.761,0.792,0.789,(3.1312)+(0.0066)Thr+(0.0030)Pro+(-0.0088)Val+(0.0797)Phe+(-0.1695)Trp;0.824,0.850,0.810,0.801,0.816,0.788,0.837,0.810,(3.6411)+(-0.0052)Asn+(-0.2301)Met+(0.0525)Ile+(0.0868)Phe+(-0.1521)Trp;0.824,0.844,0.821,0.814,0.841,0.849,0.775,0.820,(8.2595)+(-0.0426)Asn+(-0.0038)Ala+(-0.1098)Cit+(0.0626)Orn+(-0.1360)Trp;0.824,0.854,0.829,0.841,0.829,0.800,0.819,0.822,(4.5699)+(-0.0758)Asn+(0.0022)Gly+(-0.0078)Val+(0.0952)Phe+(-0.1427)Trp;0.824,0.844,0.790,0.766,0.816,0.815,0.780,0.794,(5.9060)+(-0.1098)Cit+(-0.0039)Arg+(0.0404)Orn+(0.0509)Ile+(-0.1766)Trp;0.824,0.853,0.804,0.810,0.812,0.781,0.790,0.798,(3.4458)+(0.0112)Thr+(-0.0069)Val+(-0.0069)Lys+(0.0852)Phe+(-0.1670)Trp;0.824,0.848,0.824,0.828,0.819,0.849,0.810,0.826,(5.8488)+(0.0098)Gln+(-0.1011)His+(-0.0354)Cit+(0.0053)Lys+(-0.1074)Trp;0.824,0.847,0.782,0.783,0.763,0.802,0.808,0.789,(5.1725)+(-0.0221)Tyr+(0.0078)Orn+(0.1408)Ile+(-0.0644)Leu+(-0.1370)Trp;0.824,0.847,0.794,0.782,0.814,0.828,0.760,0.796,(8.4131)+(-0.0908)His+(0.0226)Thr+(-0.0453)Cit+(0.0088)Val+(-0.1231)Trp;0.824,0.851,0.811,0.816,0.824,0.858,0.739,0.809,(5.2843)+(0.0361)Ser+(-0.0603)Cit+(0.0011)Arg+(-0.1025)Met+(-0.1325)Trp;0.824,0.847,0.778,0.770,0.740,0.819,0.851,0.795,(5.3769)+(-0.0014)Pro+(-0.0402)Val+(-0.0037)Lys+(0.1516)Ile+(-0.1335)Trp;0.824,0.843,0.730,0.688,0.734,

0.831,0.760,0.753,(3.0546)+(0.0486)Ser+(-0.0707)Asn+(-0.1283)His+(-0.0390)Cit+(0.0603)Ile;0.824,0.855,0.839,0.850,0.842,0.798,0.834,0.831,(1.5976)+(0.0062)Gln+(-0.2443)Met+(0.0016)Leu+(0.1110)Phe+(-0.1497)Trp;0.824,0.848,0.782,0.777,0.746,0.820,0.842,0.796,(5.9722)+(-0.0205)Arg+(-0.0430)Val+(0.0026)Lys+(0.1565)Ile+(-0.1301)Trp;0.824,0.847,0.740,0.714,0.736,0.828,0.754,0.758,(1.1416)+(0.0493)Ser+(-0.1541)His+(-0.0042)Ala+(-0.0210)Arg+(0.1081)Phe;0.824,0.845,0.717,0.695,0.709,0.794,0.737,0.734,(0.8765)+(0.0445)Ser+(-0.1585)His+(-0.0453)Tyr+(0.0050)Leu+(0.1114)Phe;0.824,0.844,0.757,0.738,0.700,0.858,0.854,0.788,(2.8189)+(0.0505)Ser+(-0.1796)Asn+(-0.0052)Gly+(-0.0565)Val+(0.1726)Ile;0.824,0.850,0.796,0.783,0.807,0.823,0.786,0.800,(8.0859)+(-0.0168)Asn+(-0.0872)His+(0.0062)Pro+(0.0335)Orn+(-0.1016)Trp;0.824,0.847,0.797,0.794,0.809,0.835,0.756,0.798,(8.4173)+(-0.0854)His+(0.0217)Thr+(-0.0395)Cit+(0.0048)Lys+(-0.1144)Trp;0.824,0.852,0.796,0.787,0.801,0.852,0.769,0.802,(6.2495)+(0.0442)Ser+(-0.0043)Gly+(-0.0792)His+(-0.0308)Cit+(-0.0997)Trp;0.824,0.847,0.714,0.674,0.692,0.828,0.786,0.745,(2.4378)+(0.0326)Ser+(-0.1257)His+(-0.0299)Val+(0.0153)Orn+(0.1171)Ile;0.824,0.849,0.786,0.781,0.770,0.805,0.819,0.794,(4.7397)+(0.0002)Thr+(0.0026)Orn+(0.1384)Ile+(-0.0647)Leu+(-0.1468)Trp;0.824,0.846,0.779,0.761,0.796,0.811,0.772,0.785,(5.2505)+(0.0027)Gly+(0.0090)Thr+(-0.0918)Cit+(0.0627)Ile+(-0.1824)Trp;0.824,0.843,0.729,0.698,0.723,0.807,0.766,0.748,(-0.1578)+(0.0396)Ser+(0.0046)Gln+(-0.1779)His+(-0.0047)Thr+(0.0888)Phe;0.824,0.846,0.799,0.790,0.743,0.868,0.889,0.822,(5.4716)+(-0.0291)Asn+(-0.0052)Ala+(-0.0533)Val+(-0.2070)Met+(0.1950)Ile;0.824,0.851,0.837,0.839,0.838,0.828,0.834,0.835,(5.7793)+(-0.0417)Asn+(-0.0046)Ala+(-0.0810)Cit+(0.1062)Phe+(-0.1525)Trp;0.824,0.845,0.827,0.835,0.818,0.849,0.807,0.827,(6.0165)+(0.0113)Gln+(-0.1079)His+(-0.0001)Ala+(-0.0133)Arg+(-0.0972)Trp;0.824,0.850,0.781,0.776,0.803,0.825,0.717,0

.780,(4.5770)+(0.0338)Ser+(-0.0756)Cit+(-0.0080)Arg+(0.0099)Pro+(-0.1602)Trp;0.824,0.846,0.795,0.772,0.805,0.828,0.811,0.804,(8.0465)+(-0.1000)His+(-0.0029)Ala+(0.0331)Orn+(0.0221)Leu+(-0.1103)Trp;0.824,0.845,0.721,0.683,0.698,0.829,0.794,0.751,(2.8497)+(0.0377)Ser+(-0.1132)His+(-0.0281)Val+(-0.0107)Lys+(0.1259)Ile;0.824,0.855,0.838,0.850,0.841,0.794,0.830,0.829,(1.5574)+
(0.0061)Gln+(-0.2477)Met+(0.0020)Lys+(0.1114)Phe+(-0.1501)Trp;0.824,0.854,0.805,0.808,0.795,0.774,0.838,0.804,(2.7791)+(0.0019)Gln+(-0.0258)Val+(0.0397)Leu+(0.0763)Phe+(-0.1759)Trp;0.824,0.848,0.779,0.754,0.796,0.822,0.778,0.787,(7.4081)+(0.0032)Gly+(-0.1080)His+(0.0295)Orn+(0.0216)Leu+(-0.1120)Trp;0.824,0.846,0.712,0.692,0.702,0.790,0.729,0.728,(0.7861)+(0.0444)Ser+(-0.1560)His+(0.0048)Pro+(-0.0493)Tyr+(0.1132)Phe;0.824,0.855,0.803,0.774,0.810,0.833,0.845,0.816,(7.6462)+(-0.0806)His+(0.0185)Tyr+(-0.1123)Met+(0.0703)Ile+(-0.1169)Trp;0.824,0.849,0.841,0.851,0.852,0.857,0.784,0.836,(6.5033)+(-0.1035)Asn+(0.0072)Gln+(0.0189)Thr+(-0.0756)Cit+(-0.1505)Trp;0.824,0.847,0.788,0.796,0.785,0.827,0.748,0.789,(4.5274)+(0.0400)Ser+(-0.1072)Asn+(0.0083)Pro+(-0.0036)Tyr+(-0.1343)Trp;0.824,0.850,0.786,0.772,0.800,0.822,0.767,0.791,(7.5608)+(0.0021)Gly+(-0.0942)His+(0.0062)Pro+(0.0319)Orn+(-0.1019)Trp;0.824,0.845,0.825,0.834,0.817,0.849,0.804,0.826,(5.9871)+(0.0004)Gly+(0.0113)Gln+(-0.1082)His+(-0.0134)Arg+(-0.0973)Trp;0.824,0.846,0.699,0.648,0.699,0.801,0.760,0.727,(0.2126)+(0.0435)Ser+(-0.1733)His+(0.0009)Orn+(0.0357)Ile+(0.0676)Phe;0.824,0.842,0.727,0.685,0.721,0.823,0.780,0.752,(1.2135)+(0.0364)Ser+(0.0048)Gln+(-0.1629)His+(-0.0068)Thr+(0.0533)Ile;0.824,0.850,0.802,0.815,0.802,0.842,0.739,0.800,(3.3383)+(0.0318)Ser+(0.0022)Gln+(-0.1611)Met+(0.0201)Orn+(-0.1382)Trp;0.824,0.847,0.800,0.811,0.806,0.838,0.733,0.797,(4.7189)+(0.0389)Ser+(-0.0957)Asn+(-0.0136)Arg+(0.0244)Orn+(-0.1318)Trp;0.824,0.847,0.785,0.764,

0.753,0.849,0.858,0.806,(6.3970)+(0.0036)Asn+(-0.0631)His+(-0.0423)Val+(-0.2046)Met+(0.1680)Ile;0.824,0.851,0.830,0.826,0.848,0.804,0.817,0.824,(4.8518)+(-0.0748)Cit+(-0.1588)Met+(0.0068)Leu+(0.1159)Phe+(-0.1549)Trp;0.824,0.849,0.791,0.781,0.796,0.780,0.814,0.793,(4.2957)+(-0.0914)Cit+(-0.0310)Tyr+(0.0519)Ile+(0.0829)Phe+(-0.1770)Trp;0.824,0.848,0.800,0.810,0.800,0.846,0.738,0.799,(3.9579)+(0.0336)Ser+(-0.0014)Ala+(-0.1419)Met+(0.0234)Orn+(-0.1342)Trp;0.824,0.847,0.791,0.780,0.803,0.823,0.772,0.795,(8.0672)+(-0.1032)His+(0.0205)Thr+(-0.0005)Tyr+(0.0074)Val+(-0.1152)Trp;0.824,0.847,0.788,0.784,0.771,0.810,0.821,0.796,(4.8526)+(-0.0044)Pro+(0.0053)Orn+(0.1452)Ile+(-0.0660)Leu+(-0.1454)Trp;0.824,0.848,0.799,0.793,0.825,0.796,0.766,0.795,(4.2685)+(0.0149)Thr+(-0.0948)Cit+(-0.0036)Val+(0.0929)Phe+(-0.1819)Trp;0.824,0.846,0.821,0.827,0.815,0.842,0.804,0.822,(5.7401)+(0.0110)Gln+(-0.1149)His+(-0.0195)Arg+(0.0099)Lys+(-0.1041)Trp;0.824,0.845,0.785,0.763,0.770,0.826,0.847,0.801,(2.1087)+(-0.0776)Asn+(0.0111)Gln+(-0.1615)His+(0.0286)Ile+(0.0581)Phe;0.824,0.843,0.717,0.679,0.690,0.828,0.790,0.747,(2.4867)+(0.0344)Ser+(-0.1215)His+(-0.0277)Val+(0.1226)Ile+(-0.0046)Leu;0.824,0.849,0.827,0.837,0.818,0.847,0.804,0.827,(3.6942)+(0.0421)Ser+(-0.0080)Gly+(0.0036)Gln+(-0.1472)Met+(-0.1365)Trp;0.824,0.840,0.764,0.746,0.715,0.841,0.860,0.790,(5.3829)+(0.0019)Gly+(-0.0893)His+(-0.0066)Ala+(-0.0347)Val+(0.1420)Ile;0.824,0.850,0.820,0.823,0.830,0.783,0.816,0.813,(4.0745)+(-0.0163)Asn+(0.0076)Pro+(-0.2084)Met+(0.1070)Phe+(-0.1425)Trp;0.824,0.846,0.716,0.698,0.706,0.793,0.728,0.731,(1.0128)+(0.0416)Ser+(-0.1595)His+(0.0063)Thr+(-0.0486)Tyr+(0.1167)Phe;0.824,0.848,0.812,0.827,0.807,0.843,0.760,0.809,(4.2451)+(0.0323)Ser+(-0.1226)Asn+(0.0037)Gln+(0.0069)Thr+(-0.1397)Trp;0.823,0.852,0.792,0.783,0.806,0.828,0.762,0.795,(2.4718)+(0.0431)Ser+(0.0301)Tyr+(-0.2316)Met+(0.0229)Leu+(-0.1539)Trp;0.823,0.850,0.789,0.779,0.804,0.825,0.76

0,0.792,(4.5145)+(0.0393)Ser+(-0.0052)Gly+(-0.0753)Cit+(0.0093)Pro+(-0.1626)Trp;0.823,0.856,0.838,0.850,0.841,0.799,0.828,0.829,(1.6409)+(0.0060)Gln+(-0.2441)Met+(0.0042)Orn+(0.1100)Phe+(-0.1483)Trp;0.823,0.851,0.788,0.777,0.794,0.805,0.788,0.791,(5.2709)+(-0.0007)Gly+(0.0254)Thr+(-0.2415)Met+(0.0657)Ile+(-0.1537)Trp;0.823,0.846,0.799,0.799,0.800,0.841,0.766,0.801,(8.3968)+(0.0002)Gly+(-0.0913)His+(0.0217)Thr+(-0.0013)Ala+(-0.1051)Trp;0.823,0.846,0.776,0.769,0.738,0.814,0.845,0.792,(5.5128)+(-0.0107)Tyr+(-0.0397)Val+(-0.0027)Lys+(0.1500)Ile+(-0.1305)Trp;0.823,0.845,0.721,0.682,0.716,0.831,0.758,0.747,(2.4342)+(0.0393)Ser+(-0.1242)His+(-0.0479)Cit+(0.1112)Ile+(-0.0389)Leu;0.823,0.849,0.798,0.811,0.806,0.843,0.718,0.794,(4.5492)+(0.0292)Ser+(0.0144)Thr+(-0.1793)Met+(0.0022)Lys+(-0.1423)Trp;0.823,0.848,0.826,0.832,0.819,0.858,0.802,0.828,(5.9636)+(0.0013)Gly+(0.0101)Gln+(-0.0971)His+(-0.0377)Cit+(-0.1035)Trp;0.823,0.846,0.805,0.801,0.754,0.871,0.876,0.826,(3.8121)+(-0.0658)Asn+(0.0059)Gln+(-0.0546)Val+(-0.2531)Met+(0.1867)Ile;0.823,0.851,0.826,0.829,0.816,0.810,0.848,0.826,(4.8052)+(-0.0588)Asn+(-0.0072)Ala+(0.0089)Pro+(0.0840)Phe+(-0.1490)Trp;0.823,0.845,0.826,0.836,0.834,0.794,0.806,0.818,(3.8185)+(-0.0228)Asn+(0.0026)Gly+(-0.1865)Met+(0.1129)Phe+(-0.1403)Trp;0.823,0.843,0.716,0.668,0.717,0.824,0.760,0.743,(2.5954)+(0.0437)Ser+(-0.1435)His+(-0.0014)Pro+(-0.0124)Lys+(0.0665)Ile;0.823,0.842,0.779,0.763,0.729,0.849,0.878,0.805,(6.5482)+(-0.0497)Asn+(-0.0687)His+(-0.0059)Ala+(-0.0397)Val+(0.1524)Ile;0.823,0.850,0.806,0.799,0.783,0.812,0.867,0.815,(2.5597)+(0.0026)Gln+(-0.0099)Ala+(0.0565)Ile+(0.0545)Phe+(-0.1764)Trp;0.823,0.849,0.789,0.795,0.787,0.825,0.751,0.789,(4.4135)+(0.0399)Ser+(-0.1122)Asn+(0.0078)Pro+(0.0018)Lys+(-0.1373)Trp;0.823,0.847,0.782,0.768,0.794,0.808,0.779,0.787,(5.8477)+(0.0131)Thr+(-0.0844)Cit+(-0.0166)Tyr+(0.0625)Ile+(-0.1764)Trp;0.823,0.846,0.823,0.830,0.847,0.850,0.737,0.816,(8.571

5)+(-0.0464)Asn+(0.0300)Thr+(-0.0628)Cit+(-0.1138)Met+(-0.1382)Trp;0.823,0.853,0.798,0.788,0.776,0.805,0.864,0.808,(3.4486)+(-0.0105)Ala+(0.0047)Pro+(0.0536)Ile+(0.0561)Phe+(-0.1711)Trp;0.823,0.843,0.800,0.780,0.774,0.859,0.862,0.819,(3.7767)+(-0.0543)Asn+(0.0103)Gln+(-0.1416)His+(-0.0058)Ala+(0.0548)Ile;0.823,0.849,0.801,0.785,0.751,0.872,0.895,0.826,(4.6063)+(-0.0058)Ala+(0.0213)Tyr+(-0.0548)Val+(-0.2715)Met+(0.2001)Ile;0.823,0.849,0.779,0.761,0.795,0.817,0.768,0.785,(8.1913)+(-0.1102)His+(0.0257)Thr+(-0.0118)Arg+(0.0247)Leu+(-0.1228)Trp;0.823,0.843,0.719,0.683,0.691,0.831,0.793,0.749,(2.5489)+(0.0345)Ser+(-0.1221)His+(-0.0017)Pro+(-0.0288)Val+(0.1210)Ile;0.823,0.841,0.770,0.752,0.721,0.840,0.867,0.795,(5.6366)+(-0.0841)His+(-0.0067)Ala+(-0.0319)Val+(0.1522)Ile+(-0.0124)Leu;0.823,0.852,0.786,0.776,0.792,0.808,0.784,0.790,(5.2772)+(0.0254)Thr+(-0.2371)Met+(-0.0025)Lys+(0.0672)Ile+(-0.1516)Trp;0.823,0.850,0.797,0.806,0.798,0.834,0.744,0.796,(4.6535)+(0.0358)Ser+(-0.1123)Asn+(0.0043)Thr+(0.0189)Orn+(-0.1369)Trp;0.823,0.849,0.803,0.804,0.811,0.838,0.757,0.802,(9.1729)+(-0.0319)Asn+(-0.0851)His+(0.0274)Thr+(-0.0101)Arg+(-0.1050)Trp;0.823,0.846,0.806,0.817,0.802,0.851,0.754,0.806,(5.3589)+(0.0340)Ser+(-0.1015)Asn+(0.0100)Thr+(-0.0022)Ala+(-0.1347)Trp;0.823,0.847,0.727,0.683,0.725,0.827,0.773,0.752,(2.8695)+(0.0473)Ser+(-0.0726)Asn+(-0.1377)His+(-0.0005)Pro+(0.0593)Ile;0.823,0.843,0.718,0.680,0.691,0.831,0.794,0.749,(2.4801)+(0.0359)Ser+(-0.1204)His+(-0.0031)Thr+(-0.0288)Val+(0.1197)Ile;0.823,0.855,0.846,0.859,0.850,0.805,0.836,0.837,(3.1136)+(-0.0841)Asn+(0.0067)Gln+(-0.0153)Arg+(0.0798)Phe+(-0.1610)Trp;0.823,0.848,0.791,0.799,0.793,0.830,0.738,0.790,(4.6605)+(0.0417)Ser+(-0.0973)Asn+(-0.0118)Arg+(0.0086)Pro+(-0.1335)Trp;0.823,0.847,0.753,0.731,0.714,0.815,0.848,0.777,(2.4070)+(0.0052)Gln+(-0.1362)His+(-0.0316)Val+(0.1026)Ile+(0.0601)Phe;0.823,0.847,0.817,0.817,0.810,0.839,0.813,0.820,(5.6070)+(0.0093)G

ln+(-0.1167)His+(0.0123)Tyr+(0.0046)Lys+(-0.1087)Trp;0.823,0.852,0.816,0.812,0.816,0.813,0.829,0.817,(5.0128)+(-0.0089)Ala+(-0.0932)Cit+(0.0125)Pro+(0.1001)Phe+(-0.1632)Trp;0.823,0.844,0.722,0.688,0.717,0.804,0.763,0.743,(-0.0610)+(0.0381)Ser+(0.0042)Gln+(-0.1814)His+(0.0028)Leu+(0.0839)Phe;0.823,0.848,0.786,0.781,0.772,0.804,0.819,0.794,(4.8569)+(0.0040)Orn+(-0.0020)Lys+(0.1379)Ile+(-0.0635)Leu+(-0.1448)Trp;0.823,0.848,0.761,0.726,0.776,0.829,0.772,0.776,(6.0833)+(-0.1182)His+(0.0343)Thr+(-0.0407)Cit+(-0.2487)Met+(0.0704)Ile;0.823,0.847,0.787,0.788,0.766,0.803,0.818,0.794,(5.4394)+(-0.0007)Gly+(-0.0197)Tyr+(0.1426)Ile+(-0.0640)Leu+(-0.1369)Trp;0.823,0.847,0.785,0.771,0.808,0.826,0.746,0.788,(4.3606)+(0.0359)Ser+(-0.0810)Cit+(-0.0096)Lys+(0.0245)Leu+(-0.1648)Trp;0.823,0.851,0.787,0.777,0.793,0.807,0.785,0.790,(5.1990)+(0.0252)Thr+(-0.2423)Met+(-0.0020)Orn+(0.0668)Ile+(-0.1534)Trp;0.823,0.847,0.791,0.784,0.805,0.825,0.754,0.792,(8.5105)+(-0.1005)His+(0.0244)Thr+(-0.0119)Arg+(0.0071)Val+(-0.1148)Trp;0.823,0.849,0.828,0.827,0.826,0.855,0.818,0.832,(5.9037)+(0.0102)Gln+(-0.1033)His+(-0.0382)Cit+(0.0181)Tyr+(-0.1113)Trp;0.823,0.852,0.811,0.816,0.822,0.779,0.797,0.803,(3.2800)+(0.0023)Gly+(0.0078)Pro+(-0.2331)Met+(0.1113)Phe+(-0.1440)Trp;0.823,0.848,0.782,0.777,0.746,0.822,0.843,0.797,(6.1122)+(-0.0182)Arg+(-0.0038)Tyr+(-0.0422)Val+(0.1569)Ile+(-0.1267)Trp;0.823,0.850,0.798,0.797,0.809,0.844,0.741,0.798,(8.5287)+(0.0016)Gly+(-0.0822)His+(0.0226)Thr+(-0.0422)Cit+(-0.1110)Trp;0.823,0.845,0.791,0.786,0.798,0.827,0.764,0.794,(7.9403)+(0.0006)Gly+(-0.0976)His+(0.0186)Thr+(0.0055)Lys+(-0.1093)Trp;0.823,0.843,0.788,0.776,0.743,0.855,0.864,0.810,(4.4353)+(-0.0986)Asn+(0.0087)Gln+(-0.0977)His+(-0.0350)Val+(0.1271)Ile;0.823,0.850,0.809,0.799,0.815,0.786,0.836,0.809,(3.5440)+(-0.2348)Met+(-0.0002)Lys+(0.0530)Ile+(0.0870)Phe+(-0.1524)Trp;0.823,0.848,0.832,0.842,0.822,0.856,0.811,0.833,(5.9898)+(0.0117)Gln+(-0.1031)Hi

s+(-0.0105)Arg+(-0.0409)Met+(-0.0941)Trp;0.823,0.848,0.822,0.830,0.816,0.849,0.794,0.822,(5.4020)+(0.0491)Ser+(-0.0613)Asn+(-0.0073)Gly+(-0.0783)Met+(-0.1282)Trp;0.823,0.846,0.788,0.784,0.770,0.811,0.818,0.796,(4.8879)+(0.0020)Thr+(-0.0042)Pro+(0.1453)Ile+(-0.0653)Leu+(-0.1469)Trp;0.823,0.849,0.787,0.765,0.775,0.849,0.823,0.803,(2.9564)+(0.0026)Gly+(0.0104)Gln+(-0.1408)His+(-0.1981)Met+(0.0669)Ile;0.823,0.844,0.723,0.691,0.719,0.804,0.760,0.744,(-0.0320)+(0.0380)Ser+(0.0041)Gln+(-0.1801)His+(0.0004)Pro+(0.0868)Phe;0.823,0.838,0.721,0.685,0.719,0.800,0.763,0.742,(0.9673)+(0.0472)Ser+(-0.0030)Gly+(-0.1629)His+(-0.0036)Val+(0.0952)Phe;0.823,0.841,0.724,0.683,0.719,0.823,0.773,0.749,(1.4487)+(0.0336)Ser+(0.0044)Gln+(-0.1662)His+(-0.0023)Pro+(0.0549)Ile;0.823,0.847,0.790,0.786,0.773,0.825,0.811,0.799,(3.7378)+(0.0389)Ser+(-0.0076)Gly+(-0.0067)Ala+(0.0117)Pro+(-0.1463)Trp;0.823,0.845,0.727,0.686,0.731,0.831,0.755,0.751,(3.0089)+(0.0495)Ser+(-0.0603)Asn+(-0.1349)His+(-0.0137)Arg+(0.0599)
Ile;0.823,0.845,0.796,0.786,0.743,0.865,0.880,0.819,(4.9151)+(-0.0056)Ala+(-0.0469)Val+(-0.2310)Met+(0.2093)Ile+(-0.0194)Leu;0.823,0.843,0.806,0.801,0.836,0.838,0.732,0.802,(7.6492)+(-0.0575)Asn+(0.0034)Gly+(-0.1117)Cit+(0.0583)Orn+(-0.1432)Trp;0.823,0.847,0.794,0.774,0.808,0.785,0.821,0.797,(4.2348)+(-0.0933)Cit+(-0.0027)Arg+(0.0504)Ile+(0.0664)Phe+(-0.1870)Trp;0.823,0.842,0.720,0.688,0.690,0.826,0.788,0.748,(2.8479)+(0.0338)Ser+(-0.1169)His+(-0.0162)Tyr+(-0.0276)Val+(0.1203)Ile;0.823,0.851,0.832,0.852,0.822,0.787,0.831,0.823,(3.0081)+(-0.0887)Asn+(0.0062)Gln+(-0.0301)Tyr+(0.0902)Phe+(-0.1515)Trp;0.823,0.851,0.785,0.775,0.792,0.804,0.784,0.789,(5.1626)+(0.0246)Thr+(0.0013)Pro+(-0.2449)Met+(0.0647)Ile+(-0.1532)Trp;0.823,0.849,0.803,0.813,0.801,0.841,0.750,0.801,(4.7143)+(0.0369)Ser+(-0.1072)Asn+(-0.0020)Val+(0.0228)Orn+(-0.1312)Trp;0.823,0.847,0.762,0.739,0.740,0.803,0.840,0.780,(4.12

60)+(-0.0381)Asn+(-0.1138)His+(0.1067)Ile+(-0.0581)Leu+(0.0759)Phe;0.823,0.846,0.785,0.765,0.755,0.849,0.857,0.807,(6.4272)+(-0.0613)His+(-0.0409)Val+(-0.2007)Met+(0.1720)Ile+(-0.0056)Leu;0.823,0.850,0.829,0.830,0.846,0.799,0.812,0.822,(4.6030)+(-0.0726)Cit+(-0.1736)Met+(0.0055)Lys+(0.1198)Phe+(-0.1541)Trp;0.823,0.840,0.715,0.673,0.716,0.798,0.762,0.737,(0.8241)+(0.0475)Ser+(-0.0029)Gly+(-0.1688)His+(0.0028)Leu+(0.0858)Phe;0.823,0.856,0.843,0.852,0.843,0.804,0.846,0.836,(3.1177)+(-0.0967)Asn+(0.0059)Gln+(-0.0009)Lys+(0.0753)Phe+(-0.1601)Trp;0.823,0.847,0.791,0.763,0.820,0.831,0.776,0.797,(8.1505)+(-0.0811)His+(-0.0776)Cit+(0.0531)Orn+(0.0192)Leu+(-0.1261)Trp;0.823,0.846,0.810,0.812,0.810,0.835,0.788,0.811,(5.4853)+(0.0451)Ser+(-0.1060)Asn+(-0.0077)Gly+(0.0101)Thr+(-0.1404)Trp;0.822,0.848,0.786,0.782,0.770,0.805,0.818,0.794,(4.8877)+(0.0018)Thr+(-0.0023)Lys+(0.1379)Ile+(-0.0628)Leu+(-0.1460)Trp;0.822,0.845,0.785,0.772,0.745,0.857,0.853,0.807,(3.3866)+(0.0025)Gln+(-0.0561)Val+(-0.3094)Met+(0.0208)Orn+(0.1879)Ile;0.822,0.848,0.795,0.781,0.810,0.825,0.782,0.799,(5.9484)+(0.0052)Gly+(-0.0754)Cit+(-0.1214)Met+(0.0732)Ile+(-0.1524)Trp;0.822,0.853,0.805,0.813,0.806,0.769,0.809,0.799,(3.4793)+(0.0043)Pro+(-0.0075)Val+(-0.0030)Lys+(0.0828)Phe+(-0.1623)Trp;0.822,0.847,0.793,0.780,0.822,0.786,0.768,0.789,(4.1948)+(0.0127)Thr+(-0.0986)Cit+(0.0033)Pro+(0.0847)Phe+(-0.1869)Trp;0.822,0.854,0.838,0.848,0.838,0.801,0.840,0.832,(3.1620)+(-0.0998)Asn+(0.0056)Gln+(0.0060)Orn+(0.0712)Phe+(-0.1600)Trp;0.822,0.852,0.800,0.801,0.792,0.770,0.834,0.799,(3.3270)+(0.0006)Gly+(-0.0266)Val+(0.0418)Leu+(0.0789)Phe+(-0.1726)Trp;0.822,0.847,0.818,0.832,0.811,0.845,0.774,0.816,(3.9817)+(0.0344)Ser+(-0.1171)Asn+(0.0040)Gln+(0.0019)Lys+(-0.1376)Trp;0.822,0.851,0.800,0.809,0.786,0.769,0.825,0.797,(3.6646)+(-0.0298)Tyr+(-0.0246)Val+(0.0399)Leu+(0.0947)Phe+(-0.1623)Trp;0.822,0.846,0.788,0.775,0.802,0.823,0.769,0.792,(7.6588)+(0.0026)Gly+(

-0.0997)His+(0.0055)Val+(0.0322)Orn+(-0.1047)Trp;0.822,0.856,0.841,0.851,0.844,0.800,0.834,0.832,(1.6002)+(0.0062)Gln+(0.0036)Tyr+(-0.2486)Met+(0.1115)Phe+(-0.1495)Trp;0.822,0.848,0.799,0.808,0.799,0.836,0.747,0.798,(4.5271)+(0.0374)Ser+(-0.1072)Asn+(0.0208)Orn+(0.0000)Lys+(-0.1346)Trp;0.822,0.845,0.726,0.694,0.719,0.831,0.750,0.748,(2.6579)+(0.0432)Ser+(-0.1237)His+(-0.0245)Arg+(0.1192)Ile+(-0.0435)Leu;0.822,0.842,0.801,0.792,0.835,0.835,0.728,0.798,(7.1708)+(0.0106)Thr+(-0.1154)Cit+(0.0548)Orn+(-0.0080)Lys+(-0.1569)Trp;0.822,0.851,0.827,0.841,0.834,0.792,0.804,0.818,(3.5440)+(0.0024)Gly+(-0.0057)Val+(-0.2013)Met+(0.1238)Phe+(-0.1359)Trp;0.822,0.850,0.797,0.785,0.809,0.824,0.782,0.800,(8.0267)+(-0.0827)His+(0.0079)Pro+(-0.0597)Met+(0.0340)Orn+(-0.0985)Trp;0.822,0.850,0.809,0.800,0.815,0.787,0.838,0.810,(3.5504)+(-0.2348)Met+(-0.0021)Orn+(0.0535)Ile+(0.0880)Phe+(-0.1528)Trp;0.822,0.847,0.827,0.825,0.839,0.807,0.821,0.823,(5.5951)+(-0.0561)Asn+(-0.0855)Cit+(0.0061)Arg+(0.0945)Phe+(-0.1602)Trp;0.822,0.846,0.799,0.805,0.778,0.822,0.813,0.804,(4.2839)+(0.0051)Gln+(-0.0284)Arg+(0.1565)Ile+(-0.0735)Leu+(-0.1443)Trp;0.822,0.854,0.807,0.806,0.800,0.777,0.846,0.807,(3.7279)+(-0.0265)Val+(-0.0054)Lys+(0.0446)Leu+(0.0820)Phe+(-0.1680)Trp;0.822,0.852,0.813,0.816,0.826,0.783,0.799,0.806,(4.6980)+(-0.1026)Asn+(0.0001)Gly+(0.0178)Thr+(0.0755)Phe+(-0.1633)Trp;0.822,0.849,0.831,0.836,0.822,0.845,0.825,0.832,(4.2570)+(0.0450)Ser+(-0.1136)Asn+(-0.0078)Gly+(0.0046)Gln+(-0.1378)Trp;0.822,0.848,0.771,0.763,0.765,0.854,0.748,0.782,(2.5444)+(0.0367)Ser+(0.0072)Gln+(-0.1320)His+(0.0120)Pro+(-0.1797)Met;0.822,0.845,0.802,0.805,0.815,0.853,0.732,0.801,(5.1887)+(0.0281)Ser+(0.0076)Thr+(-0.0029)Ala+(-0.0726)Cit+(-0.1490)Trp;0.822,0.849,0.794,0.788,0.793,0.847,0.774,0.801,(6.2497)+(0.0457)Ser+(-0.0052)Gly+(-0.0855)His+(-0.0084)Arg+(-0.0946)Trp;0.822,0.847,0.805,0.800,0.828,0.796,0.779,0.801,(3.1650)+(0.0032)Gln+(0.0105)Thr+(-0.1

006)Cit+(0.0852)Phe+(-0.1887)Trp;0.822,0.849,0.799,0.790,0.779,0.809,0.858,0.809,(3.3072)+(0.0008)Gly+(-0.0095)Ala+(0.0573)Ile+(0.0573)Phe+(-0.1716)Trp;0.822,0.844,0.792,0.779,0.802,0.824,0.781,0.796,(6.2400)+(-0.0447)Asn+(0.0054)Gly+(-0.0845)Cit+(0.0647)Ile+(-0.1621)Trp;0.822,0.846,0.795,0.783,0.752,0.864,0.869,0.817,(2.9654)+(0.0040)Gln+(0.0186)Tyr+(-0.0560)Val+(-0.3403)Met+(0.1926)Ile;0.822,0.846,0.812,0.827,0.810,0.849,0.750,0.809,(5.2255)+(0.0400)Ser+(-0.0608)Asn+(-0.0062)Arg+(-0.0729)Met+(-0.1262)Trp;0.822,0.851,0.801,0.798,0.786,0.822,0.825,0.808,(6.3876)+(-0.0301)Asn+(-0.0144)Arg+(0.1460)Ile+(-0.0663)Leu+(-0.1312)Trp;0.822,0.848,0.828,0.827,0.840,0.807,0.817,0.823,(5.6726)+(-0.0511)Asn+(-0.0815)Cit+(0.0004)Lys+(0.0949)Phe+(-0.1598)Trp;0.822,0.845,0.721,0.687,0.718,0.806,0.759,0.742,(-0.0131)+(0.0375)Ser+(0.0039)Gln+(-0.1805)His+(0.0060)Orn+(0.0852)Phe;0.822,0.853,0.812,0.814,0.825,0.781,0.800,0.805,(4.6919)+(-0.1024)Asn+(0.0174)Thr+(0.0010)Pro+(0.0745)Phe+(-0.1636)Trp;0.822,0.845,0.783,0.765,0.775,0.815,0.821,0.794,(2.5377)+(-0.1018)Asn+(0.0105)Gln+(-0.1646)His+(0.0151)Thr+(0.0789)Phe;0.822,0.852,0.836,0.833,0.854,0.811,0.820,0.830,(4.8867)+(-0.0736)Cit+(0.0071)Tyr+(-0.1648)Met+(0.1196)Phe+(-0.1516)Trp;0.822,0.848,0.782,0.769,0.806,0.821,0.736,0.783,(4.0239)+(0.0316)Ser+(0.0024)Thr+(-0.0829)Cit+(0.0181)Leu+(-0.1734)Trp;0.822,0.843,0.820,0.818,0.835,0.852,0.768,0.818,(5.9765)+(0.0040)Gln+(-0.0052)Ala+(-0.1149)Cit+(0.0558)Orn+(-0.1526)Trp;0.822,0.845,0.778,0.764,0.740,0.851,0.847,0.800,(4.1598)+(0.0007)Gly+(-0.0568)Val+(-0.2934)Met+(0.0246)Orn+(0.1893)Ile;0.822,0.845,0.807,0.798,0.833,0.834,0.754,0.805,(7.2012)+(-0.1034)Cit+(0.0078)Pro+(-0.0889)Met+(0.0522)Orn+(-0.1462)Trp;0.822,0.843,0.787,0.769,0.807,0.810,0.774,0.790,(6.0199)+(-0.1095)Cit+(-0.0145)Tyr+(0.0415)Orn+(0.0521)Ile+(-0.1709)Trp;0.822,0.846,0.806,0.817,0.808,0.838,0.751,0.803,(4.6867)+(0.0402)Ser+(-0.0606)Asn+(0.0042)Val+(-0.0933)M

et+(-0.1343)Trp;0.822,0.852,0.803,0.811,0.803,0.762,0.808,0.796,(3.3569)+(-0.0002)Gly+(0.0042)Pro+(-0.0082)Val+(0.0806)Phe+(-0.1646)Trp;0.822,0.853,0.816,0.821,0.830,0.787,0.798,0.809,(4.7761)+(-0.1034)Asn+(0.0183)Thr+(-0.0046)Leu+(0.0798)Phe+(-0.1599)Trp;0.822,0.847,0.729,0.693,0.722,0.823,0.769,0.752,(3.2092)+(0.0464)Ser+(-0.0665)Asn+(-0.1318)His+(-0.0194)Tyr+(0.0630)Ile;0.822,0.846,0.784,0.790,0.804,0.775,0.737,0.776,(4.2580)+(0.0206)Thr+(-0.0947)Cit+(-0.0419)Tyr+(0.1093)Phe+(-0.1769)Trp;0.822,0.846,0.785,0.785,0.764,0.804,0.812,0.791,(5.2772)+(-0.0198)Tyr+(0.0005)Lys+(0.1429)Ile+(-0.0645)Leu+(-0.1378)Trp;0.822,0.840,0.725,0.692,0.713,0.821,0.768,0.749,(1.8628)+(0.0332)Ser+(0.0042)Gln+(-0.1559)His+(-0.0244)Tyr+(0.0575)Ile;0.822,0.849,0.796,0.806,0.800,0.837,0.729,0.793,(3.8024)+(0.0337)Ser+(-0.1562)Met+(0.0213)Orn+(0.0018)Lys+(-0.1375)Trp;0.822,0.848,0.794,0.803,0.806,0.833,0.715,0.789,(4.2521)+(0.0310)Ser+(0.0140)Thr+(0.0039)Val+(-0.1820)Met+(-0.1456)Trp;0.822,0.848,0.783,0.771,0.747,0.861,0.836,0.804,(4.6984)+(0.0041)Gly+(-0.0483)Cit+(-0.0521)Val+(-0.2628)Met+(0.1882)Ile;0.822,0.841,0.796,0.797,0.791,0.829,0.784,0.800,(8.2549)+(0.0027)Gly+(-0.0793)His+(-0.0034)Ala+(0.0115)Pro+(-0.0974)Trp;0.822,0.842,0.727,0.696,0.733,0.811,0.733,0.743,(1.1574)+(0.0508)Ser+(-0.1568)His+(-0.0188)Arg+(-0.0083)Lys+(0.1081)Phe;0.822,0.848,0.816,0.808,0.796,0.822,0.870,0.824,(4.4206)+(-0.0477)Asn+(-0.0082)Ala+(0.0540)Ile+(0.0624)Phe+(-0.1604)Trp;0.822,0.846,0.799,0.788,0.809,0.826,0.789,0.803,(8.0750)+(-0.0260)Asn+(-0.0908)His+(0.0334)Orn+(0.0088)Lys+(-0.1044)Trp;0.822,0.846,0.796,0.790,0.806,0.831,0.769,0.799,(8.0524)+(-0.0188)Asn+(0.0024)Gly+(-0.0877)His+(0.0370)Orn+(-0.0963)Trp;0.822,0.846,0.787,0.787,0.766,0.807,0.815,0.794,(5.3474)+(-0.0024)Pro+(-0.0174)Tyr+(0.1465)Ile+(-0.0648)Leu+(-0.1375)Trp;0.822,0.853,0.812,0.815,0.826,0.781,0.798,0.805,(4.6927)+(-0.1027)Asn+(0.0173)Thr+(0.0030)Orn+(0.0737)Phe+(-0.1628)Trp

;0.822,0.847,0.802,0.791,0.810,0.833,0.787,0.806,(7.8995)+(-0.0896)His+(-0.0681)Met+(0.0339)Orn+(0.0112)Lys+(-0.1023)Trp;0.822,0.851,0.804,0.807,0.813,0.850,0.745,0.804,(3.4664)+(0.0364)Ser+(0.0265)Tyr+(-0.1919)Met+(0.0186)Orn+(-0.1432)Trp;0.822,0.847,0.797,0.806,0.806,0.844,0.719,0.794,(4.1160)+(0.0360)Ser+(-0.0135)Arg+(-0.1374)Met+(0.0259)Orn+(-0.1326)Trp;0.822,0.842,0.786,0.771,0.761,0.841,0.841,0.803,(3.6363)+(-0.0667)Asn+(0.0097)Gln+(-0.1289)His+(0.0985)Ile+(-0.0390)Leu;0.821,0.847,0.786,0.764,0.755,0.850,0.860,0.807,(6.4007)+(-0.0626)His+(0.0014)Arg+(-0.0424)Val+(-0.2043)Met+(0.1680)Ile;0.821,0.852,0.813,0.807,0.807,0.832,0.827,0.818,(0.9067)+(0.0138)Gln+(-0.1550)His+(-0.0122)Arg+(-0.2225)Met+(0.1252)Phe;0.821,0.848,0.826,0.824,0.839,0.804,0.818,0.822,(5.6478)+(-0.0500)Asn+(-0.0822)Cit+(0.0030)Leu+(0.0924)Phe+(-0.1621)Trp;0.821,0.845,0.762,0.750,0.735,0.804,0.820,0.777,(1.9987)+(0.0083)Gln+(-0.1624)His+(-0.0491)Tyr+(0.0357)Ile+(0.0778)Phe;0.821,0.841,0.715,0.670,0.718,0.801,0.763,0.738,(0.8088)+(0.0462)Ser+(-0.0030)Gly+(-0.1692)His+(0.0103)Orn+(0.0852)Phe;0.821,0.847,0.788,0.783,0.772,0.805,0.823,0.796,(4.9874)+(-0.0004)Gly+(-0.0013)Lys+(0.1391)Ile+(-0.0637)Leu+(-0.1449)Trp;0.821,0.853,0.827,0.837,0.832,0.797,0.810,0.819,(3.8222)+(-0.0077)Val+(-0.2019)Met+(0.0181)Orn+(0.1142)Phe+(-0.1319)Trp;0.821,0.847,0.814,0.829,0.809,0.850,0.757,0.811,(3.5396)+(0.0314)Ser+(0.0032)Gln+(-0.0004)Ala+(-0.1443)Met+(-0.1360)Trp;0.821,0.847,0.789,0.765,0.805,0.820,0.799,0.797,(7.9435)+(-0.0068)Asn+(-0.1011)His+(0.0317)Orn+(0.0196)Leu+(-0.1117)Trp;0.821,0.851,0.798,0.808,0.804,0.763,0.786,0.790,(3.1334)+
(0.0064)Thr+(-0.0088)Val+(0.0077)Orn+(0.0780)Phe+(-0.1676)Trp;0.821,0.842,0.813,0.808,0.839,0.841,0.752,0.810,(5.8934)+(0.0043)Gln+(-0.1170)Cit+(0.0546)Orn+(-0.0074)Lys+(-0.1575)Trp;0.821,0.850,0.795,0.811,0.798,0.764,0.769,0.786,(4.7394)+(-0.0987)Asn+(0.0235)Thr+(-0.0427)Tyr

+(0.0972)Phe+(-0.1528)Trp;0.821,0.841,0.801,0.790,0.831,0.831,0.747,0.800,(7.0680)+(-0.1152)Cit+(0.0057)Pro+(0.0556)Orn+(-0.0053)Lys+(-0.1563)Trp;0.821,0.840,0.714,0.674,0.715,0.796,0.760,0.736,(0.8188)+(0.0475)Ser+(-0.0030)Gly+(-0.1678)His+(0.0014)Pro+(0.0873)Phe;0.821,0.848,0.821,0.819,0.823,0.850,0.798,0.822,(4.1473)+(0.0469)Ser+(-0.0069)Gly+(0.0288)Tyr+(-0.1759)Met+(-0.1418)Trp;0.821,0.847,0.763,0.749,0.752,0.785,0.806,0.773,(2.4891)+(0.0404)Ser+(-0.0083)Gly+(-0.0276)Tyr+(0.0558)Ile+(-0.1652)Trp;0.821,0.845,0.801,0.789,0.809,0.830,0.795,0.806,(8.1651)+(-0.0934)His+(-0.0022)Ala+(0.0058)Val+(0.0348)Orn+(-0.1035)Trp;0.821,0.845,0.813,0.822,0.807,0.852,0.777,0.814,(4.9068)+(0.0382)Ser+(-0.0940)Asn+(-0.0021)Ala+(0.0117)Tyr+(-0.1331)Trp;0.821,0.848,0.783,0.761,0.753,0.847,0.855,0.804,(6.4132)+(-0.0617)His+(0.0031)Pro+(-0.0428)Val+(-0.2094)Met+(0.1653)Ile;0.821,0.848,0.802,0.793,0.782,0.808,0.866,0.812,(3.4815)+(-0.0094)Ala+(-0.0030)Orn+(0.0579)Ile+(0.0586)Phe+(-0.1713)Trp;0.821,0.839,0.717,0.678,0.717,0.799,0.761,0.739,(0.8444)+(0.0478)Ser+(-0.0029)Gly+(-0.1666)His+(-0.0011)Thr+(0.0895)Phe;0.821,0.848,0.836,0.843,0.829,0.826,0.838,0.834,(3.1143)+(0.0052)Gln+(-0.0061)Ala+(-0.0942)Cit+(0.1008)Phe+(-0.1699)Trp;0.821,0.851,0.789,0.778,0.798,0.807,0.789,0.793,(5.0747)+(0.0244)Thr+(0.0087)Tyr+(-0.2534)Met+(0.0655)Ile+(-0.1553)Trp;0.821,0.847,0.815,0.821,0.812,0.838,0.789,0.815,(4.4581)+(0.0446)Ser+(-0.0075)Gly+(-0.1416)Met+(0.0042)Lys+(-0.1363)Trp;0.821,0.846,0.805,0.801,0.836,0.822,0.739,0.800,(7.0565)+(0.0295)Thr+(-0.0702)Cit+(-0.1837)Met+(0.0212)Leu+(-0.1555)Trp;0.821,0.843,0.820,0.830,0.841,0.851,0.732,0.813,(7.8859)+(0.0283)Thr+(-0.0016)Ala+(-0.0630)Cit+(-0.1380)Met+(-0.1388)Trp;0.821,0.846,0.790,0.786,0.771,0.811,0.823,0.798,(5.0272)+(-0.0003)Gly+(-0.0038)Pro+(0.1458)Ile+(-0.0656)Leu+(-0.1449)Trp;0.821,0.845,0.800,0.796,0.813,0.847,0.753,0.802,(4.6142)+(0.0326)Ser+(-0.0039)Ala+(-0.0786)Cit+(0.0087)Val

+(-0.1559)Trp;0.821,0.842,0.813,0.805,0.841,0.836,0.761,0.811,(8.0118)+(-0.0499)Asn+(-0.1079)Cit+(0.0586)Orn+(-0.0004)Lys+(-0.1440)Trp;0.821,0.846,0.791,0.775,0.809,0.818,0.772,0.794,(4.1252)+(0.0387)Ser+(-0.0047)Gly+(-0.0751)Cit+(0.0172)Leu+(-0.1698)Trp;0.821,0.852,0.802,0.808,0.788,0.791,0.823,0.803,(3.3956)+(0.0087)Thr+(-0.0090)Ala+(0.0076)Pro+(0.0780)Phe+(-0.1687)Trp;0.821,0.851,0.810,0.822,0.810,0.773,0.805,0.802,(2.6246)+(0.0019)Gln+(-0.0082)Val+(0.0084)Orn+(0.0769)Phe+(-0.1669)Trp;0.821,0.849,0.822,0.840,0.818,0.854,0.763,0.819,(4.0826)+(0.0357)Ser+(-0.1050)Asn+(0.0048)Gln+(-0.0125)Arg+(-0.1333)Trp;0.821,0.847,0.795,0.791,0.802,0.834,0.765,0.798,(8.1728)+(0.0006)Gly+(-0.0950)His+(0.0201)Thr+(0.0057)Tyr+(-0.1082)Trp;0.821,0.838,0.717,0.666,0.716,0.816,0.782,0.745,(2.2381)+(0.0464)Ser+(-0.0038)Gly+(-0.1511)His+(-0.0030)Thr+(0.0545)Ile;0.821,0.851,0.768,0.744,0.769,0.848,0.773,0.784,(1.8194)+(0.0390)Ser+(0.0075)Gln+(-0.1500)His+(-0.1839)Met+(0.0298)Leu;0.821,0.840,0.717,0.667,0.717,0.817,0.780,0.745,(2.3314)+(0.0451)Ser+(-0.0039)Gly+(-0.1530)His+(-0.0018)Pro+(0.0562)Ile;0.821,0.843,0.786,0.769,0.798,0.820,0.780,0.792,(5.8908)+(0.0046)Gly+(-0.0893)Cit+(-0.0075)Lys+(0.0707)Ile+(-0.1661)Trp;0.821,0.849,0.787,0.762,0.759,0.854,0.863,0.810,(6.2280)+(-0.0623)His+(0.0172)Tyr+(-0.0442)Val+(-0.2292)Met+(0.1707)Ile;0.821,0.847,0.786,0.786,0.792,0.821,0.749,0.787,(2.9833)+(0.0409)Ser+(-0.1815)Met+(-0.0006)Lys+(0.0240)Leu+(-0.1455)Trp;0.821,0.848,0.750,0.719,0.760,0.826,0.759,0.766,(5.3931)+(0.0037)Gly+(-0.1309)His+(0.0304)Thr+(-0.2518)Met+(0.0725)Ile;0.821,0.843,0.806,0.792,0.826,0.844,0.773,0.809,(8.6900)+(-0.0647)His+(-0.0027)Ala+(-0.0841)Cit+(0.0621)Orn+(-0.1076)Trp;0.821,0.847,0.798,0.790,0.830,0.790,0.755,0.791,(4.4936)+(0.0177)Thr+(-0.0897)Cit+(-0.0123)Arg+(0.0904)Phe+(-0.1861)Trp;0.821,0.845,0.773,0.748,0.744,0.842,0.850,0.796,(5.5321)+(-0.1057)His+(-0.0074)Ala+(0.0225)Orn+(0.1214)Ile+(-0.0490)Leu;0

.821,0.842,0.724,0.693,0.703,0.833,0.773,0.751,(2.9501)+(0.0400)Ser+(-0.1095)His+(-0.0243)Arg+(-0.0322)Val+(0.1328)Ile;0.821,0.846,0.802,0.799,0.804,0.841,0.776,0.805,(8.3637)+(-0.0926)His+(0.0210)Thr+(-0.0017)Ala+(0.0085)Tyr+(-0.1080)Trp;0.821,0.838,0.726,0.684,0.727,0.827,0.764,0.750,(1.3180)+(0.0349)Ser+(0.0053)Gln+(-0.1579)His+(-0.0477)Cit+(0.0548)Ile;0.821,0.845,0.793,0.787,0.800,0.826,0.770,0.796,(7.9931)+(-0.0976)His+(0.0188)Thr+(0.0027)Tyr+(0.0051)Lys+(-0.1105)Trp;0.821,0.843,0.803,0.798,0.784,0.826,0.836,0.811,(2.6066)+(-0.0851)Asn+(0.0115)Gln+(-0.1505)His+(-0.0066)Val+(0.0906)Phe;0.821,0.844,0.778,0.763,0.739,0.849,0.845,0.799,(4.2882)+(-0.0524)Val+(-0.2864)Met+(0.0248)Orn+(0.2006)Ile+(-0.0155)Leu;0.821,0.846,0.823,0.829,0.830,0.801,0.809,0.817,(5.6461)+(-0.0444)Asn+(-0.0790)Cit+(-0.0183)Tyr+(0.1046)Phe+(-0.1536)Trp;0.821,0.845,0.760,0.735,0.761,0.778,0.812,0.772,(1.8901)+(0.0397)Ser+(-0.0077)Gly+(-0.0055)Orn+(0.0527)Ile+(-0.1778)Trp;0.821,0.847,0.791,0.790,0.790,0.830,0.763,0.793,(3.0628)+(0.0403)Ser+(-0.0019)Ala+(-0.1706)Met+(0.0252)Leu+(-0.1441)Trp;0.821,0.847,0.752,0.732,0.749,0.795,0.779,0.764,(1.8627)+(0.0361)Ser+(-0.0034)Thr+(-0.0140)Lys+(0.0638)Ile+(-0.1612)Trp;0.821,0.848,0.754,0.720,0.763,0.825,0.776,0.771,(5.4690)+(0.0253)Asn+(-0.1324)His+(0.0320)Thr+(-0.2711)Met+(0.0722)Ile;0.821,0.848,0.816,0.819,0.819,0.860,0.768,0.816,(3.8579)+(0.0374)Ser+(-0.0012)Ala+(0.0348)Tyr+(-0.1782)Met+(-0.1416)Trp;0.821,0.848,0.799,0.808,0.798,0.837,0.747,0.798,(4.5446)+(0.0373)Ser+(-0.1067)Asn+(-0.0009)Tyr+(0.0210)Orn+(-0.1342)Trp;0.821,0.847,0.811,0.826,0.808,0.844,0.754,0.808,(3.4209)+(0.0310)Ser+(0.0029)Gln+(-0.1582)Met+(0.0037)Lys+(-0.1397)Trp;0.821,0.846,0.763,0.738,0.760,0.784,0.819,0.775,(1.6831)+(0.0429)Ser+(-0.0073)Gly+(-0.0075)Thr+(0.0531)Ile+(-0.1723)Trp;0.821,0.845,0.797,0.791,0.803,0.834,0.774,0.800,(7.9191)+(0.0020)Gly+(-0.0897)His+(-0.0015)Ala+(0.0374)Orn+(-0.0963)Trp;0.821,0.842,0.81

4,0.806,0.841,0.837,0.760,0.811,(8.0512)+(-0.0513)Asn+(-0.1071)Cit+(-0.0010)Val+(0.0591)Orn+(-0.1422)Trp;0.821,0.851,0.815,0.821,0.811,0.808,0.814,0.814,(3.7332)+(0.0147)Thr+(-0.0069)Ala+(-0.0076)Lys+(0.0871)Phe+(-0.1657)Trp;0.821,0.848,0.783,0.783,0.790,0.821,0.741,0.783,(2.8094)+(0.0395)Ser+(-0.1905)Met+(0.0146)Orn+(0.0208)Leu+(-0.1463)Trp;0.821,0.847,0.781,0.761,0.744,0.853,0.855,0.803,(4.1106)+(0.0134)Tyr+(-0.0582)Val+(-0.3140)Met+(0.0244)Orn+(0.1918)Ile;0.821,0.842,0.754,0.740,0.698,0.858,0.835,0.783,(2.3484)+(0.0423)Ser+(-0.1940)Asn+(0.0015)Gln+(-0.0564)Val+(0.1734)Ile;0.821,0.846,0.813,0.820,0.809,0.838,0.784,0.813,(4.5858)+(0.0458)Ser+(-0.0077)Gly+(0.0005)Ala+(-0.1309)Met+(-0.1334)Trp;0.821,0.845,0.800,0.803,0.803,0.841,0.752,0.800,(8.8565)+(-0.0894)His+(0.0257)Thr+(-0.0011)Ala+(-0.0123)Arg+(-0.1051)Trp;0.821,0.843,0.745,0.718,0.709,0.802,0.848,0.769,(3.6611)+(-0.1121)His+(-0.0311)Val+(0.1284)Ile+(-0.0190)Leu+(0.0671)Phe;0.821,0.840,0.812,0.805,0.835,0.844,0.759,0.811,(7.6062)+(-0.0045)Ala+(-0.1137)Cit+(0.0628)Orn+(-0.0029)Lys+(-0.1415)Trp;0.821,0.841,0.800,0.783,0.833,0.824,0.757,0.799,(7.1040)+(-0.1178)Cit+(0.0567)Orn+(-0.0083)Lys+(0.0139)Leu+(-0.1618)Trp;0.821,0.849,0.766,0.747,0.769,0.799,0.789,0.776,(2.4689)+(0.0446)Ser+(-0.0071)Gly+(-0.0245)Arg+(0.0570)Ile+(-0.1711)Trp;0.821,0.846,0.787,0.762,0.803,0.817,0.797,0.795,(7.6950)+(-0.1052)His+(0.0297)Orn+(0.0034)Lys+(0.0186)Leu+(-0.1146)Trp;0.821,0.842,0.800,0.795,0.795,0.822,0.808,0.805,(8.0642)+(-0.0855)His+(-0.0040)Ala+(0.0111)Pro+(0.0104)Lys+(-0.1068)Trp;0.821,0.839,0.765,0.744,0.718,0.838,0.868,0.792,(5.5861)+(-0.0857)His+(-0.0077)Ala+(0.0047)Pro+(-0.0360)Val+(0.1406)Ile;0.821,0.843,0.699,0.647,0.706,0.801,0.750,0.726,(0.2897)+(0.0455)Ser+(-0.1633)His+(-0.0427)Cit+(0.0396)Ile+(0.0696)Phe;0.821,0.841,0.716,0.672,0.722,0.826,0.744,0.741,(2.6590)+(0.0464)Ser+(-0.1405)His+(-0.0145)Arg+(-0.0090)Lys+(0.0645)Ile;0.821,0.853,0.809,0.798,0.789,

0.817,0.873,0.820,(3.8972)+(-0.0089)Ala+(-0.0085)Lys+(0.0612)Ile+(0.0627)Phe+(-0.1638)Trp;0.821,0.847,0.790,0.775,0.818,0.840,0.732,0.791,(7.9541)+(0.0041)Gly+(-0.0733)His+(-0.0837)Cit+(0.0586)Orn+(-0.1104)Trp;0.821,0.845,0.754,0.730,0.730,0.807,0.830,0.774,(3.7025)+(-0.1247)His+(-0.0054)Pro+(0.1145)Ile+(-0.0584)Leu+(0.0739)Phe;0.821,0.847,0.818,0.833,0.810,0.846,0.772,0.815,(3.9764)+(0.0347)Ser+(-0.1140)Asn+(0.0040)Gln+(0.0005)Val+(-0.1367)Trp;0.820,0.842,0.767,0.739,0.753,0.819,0.831,0.785,(2.1194)+(0.0091)Gln+(-0.1676)His+(-0.0115)Lys+(0.0364)Ile+(0.0569)Phe;0.820,0.846,0.831,0.838,0.823,0.856,0.808,0.831,(6.0998)+(0.0112)Gln+(-0.0986)His+(-0.0302)Cit+(-0.0085)Arg+(-0.1011)Trp;0.820,0.842,0.723,0.704,0.718,0.800,0.728,0.737,(1.0604)+(0.0455)Ser+(-0.1474)His+(-0.0348)Cit+(-0.0447)Tyr+(0.1201)Phe;0.820,0.840,0.755,0.740,0.687,0.863,0.858,0.787,(1.1546)+(0.0255)Ser+(-0.0126)Ala+(-0.0791)Cit+(-0.0474)Val+(0.1781)Ile;0.820,0.845,0.801,0.805,0.778,0.818,0.827,0.807,(2.4319)+(-0.0713)Asn+(0.0116)Gln+(-0.1502)His+(-0.0395)Tyr+(0.1009)Phe;0.820,0.845,0.779,0.763,0.740,0.849,0.848,0.800,(4.2580)+(0.0018)Pro+(-0.0569)Val+(-0.2954)Met+(0.0246)Orn+(0.1872)Ile;0.820,0.854,0.806,0.810,0.816,0.774,0.796,0.799,(2.6705)+(0.0024)Gln+(0.0084)Thr+(-0.0100)Lys+(0.0746)Phe+(-0.1762)Trp;0.820,0.845,0.756,0.728,0.759,0.779,0.804,0.768,(2.1329)+(0.0409)Ser+(-0.0076)Gly+(-0.0013)Gln+(0.0515)Ile+(-0.1759)Trp;0.820,0.844,0.803,0.788,0.827,0.840,0.767,0.805,(8.7277)+(-0.0184)Asn+(-0.0641)His+(-0.0806)Cit+(0.0596)Orn+(-0.1102)Trp;0.820,0.842,0.720,0.676,0.716,0.824,0.768,0.746,(1.4027)+(0.0336)Ser+(0.0041)Gln+(-0.1666)His+(0.0027)Orn+(0.0508)Ile;0.820,0.843,0.797,0.780,0.797,0.823,0.826,0.807,(8.3084)+(-0.0892)His+(-0.0043)Ala+(0.0091)Pro+(0.0228)Leu+(-0.1109)Trp;0.820,0.847,0.802,0.798,0.814,0.842,0.760,0.803,(8.6228)+(-0.0830)His+(0.0226)Thr+(-0.0407)Cit+(0.0070)Tyr+(-0.1144)Trp;0.820,0.847,0.738,0.706,0.707,0.810,0.837,0.76

5,(3.6251)+(-0.1189)His+(-0.0370)Val+(0.0205)Orn+(0.1122)Ile+(0.0578)Phe;0.820,0.850,0.810,0.802,0.818,0.785,0.836,0.810,(3.6607)+(-0.0035)Arg+(-0.2290)Met+(0.0528)Ile+(0.0874)Phe+(-0.1523)Trp;0.820,0.845,0.786,0.767,0.804,0.808,0.780,0.790,(5.8077)+(0.0133)Thr+(-0.0831)Cit+(-0.0079)Arg+(0.0609)Ile+(-0.1

815)Trp;0.820,0.846,0.780,0.766,0.740,0.852,0.849,0.802,(4.0906)+(-0.0579)Val+(-0.3042)Met+(0.0231)Orn+(0.0039)Lys+(0.1902)Ile;0.820,0.841,0.749,0.735,0.693,0.855,0.828,0.778,(2.6200)+(0.0432)Ser+(-0.1824)Asn+(-0.0544)Val+(0.1793)Ile+(-0.0067)Leu;0.820,0.845,0.829,0.845,0.834,0.841,0.770,0.822,(5.7339)+(-0.0702)Asn+(0.0064)Gln+(0.0238)Thr+(-0.1463)Met+(-0.1430)Trp;0.820,0.844,0.768,0.744,0.764,0.845,0.781,0.784,(2.4447)+(0.0381)Ser+(-0.0945)Asn+(0.0082)Gln+(-0.1520)His+(0.0200)Leu;0.820,0.848,0.788,0.777,0.809,0.822,0.746,0.788,(3.5919)+(0.0302)Ser+(0.0017)Gln+(-0.0846)Cit+(0.0177)Leu+(-0.1742)Trp;0.820,0.845,0.795,0.783,0.824,0.789,0.767,0.791,(4.2035)+(0.0139)Thr+(-0.0974)Cit+(0.0022)Leu+(0.0855)Phe+(-0.1878)Trp;0.820,0.844,0.790,0.782,0.820,0.789,0.748,0.785,(3.9146)+(0.0020)Gly+(0.0127)Thr+(-0.0999)Cit+(0.0893)Phe+(-0.1856)Trp;0.820,0.849,0.814,0.818,0.824,0.779,0.807,0.807,(3.6624)+(0.0071)Pro+(-0.2275)Met+(0.0080)Orn+(0.1040)Phe+(-0.1434)Trp;0.820,0.847,0.752,0.738,0.747,0.796,0.771,0.763,(2.2780)+(0.0340)Ser+(-0.0153)Tyr+(-0.0135)Lys+(0.0649)Ile+(-0.1572)Trp;0.820,0.847,0.795,0.773,0.783,0.847,0.838,0.810,(3.1064)+(-0.0033)Asn+(0.0111)Gln+(-0.1401)His+(-0.1909)Met+(0.0644)Ile;0.820,0.841,0.795,0.785,0.826,0.824,0.735,0.793,(6.4918)+(0.0056)Thr+(-0.1143)Cit+(0.0047)Pro+(0.0487)Orn+(-0.1672)Trp;0.820,0.849,0.816,0.820,0.827,0.777,0.811,0.809,(3.7541)+(0.0078)Pro+(-0.2241)Met+(-0.0008)Leu+(0.1089)Phe+(-0.1437)Trp;0.820,0.838,0.719,0.674,0.723,0.819,0.758,0.744,(2.5857)+(0.0487)Ser+(-0.0032)Gly+(-0.1460)His+(-0.0179)Arg+(0.0567)Ile;0.820,0.849,0.758,0.727,0.

765,0.822,0.779,0.773,(5.9103)+(-0.1271)His+(0.0330)Thr+(-0.0090)Tyr+(-0.2368)Met+(0.0703)Ile;0.820,0.844,0.817,0.821,0.810,0.842,0.804,0.819,(5.3547)+(0.0477)Ser+(-0.0881)Asn+(-0.0072)Gly+(-0.0010)Ala+(-0.1314)Trp;0.820,0.844,0.802,0.815,0.804,0.839,0.741,0.800,(4.1712)+(0.0339)Ser+(-0.0003)Ala+(-0.1427)Met+(0.0047)Lys+(-0.1367)Trp;0.820,0.846,0.822,0.823,0.849,0.848,0.741,0.815,(7.5773)+(0.0274)Thr+(-0.0645)Cit+(0.0224)Tyr+(-0.1794)Met+(-0.1478)Trp;0.820,0.846,0.753,0.733,0.751,0.801,0.775,0.765,(1.9933)+(0.0347)Ser+(-0.0022)Pro+(-0.0150)Lys+(0.0661)Ile+(-0.1621)Trp;0.820,0.843,0.822,0.821,0.843,0.851,0.762,0.819,(5.6129)+(0.0053)Gln+(-0.1036)Cit+(-0.0971)Met+(0.0499)Orn+(-0.1480)Trp;0.820,0.837,0.744,0.713,0.744,0.835,0.760,0.763,(2.3089)+(0.0352)Ser+(0.0061)Gln+(-0.1627)His+(-0.0110)Lys+(0.0241)Leu;0.820,0.844,0.798,0.788,0.804,0.831,0.789,0.803,(7.8541)+(-0.0937)His+(-0.0018)Ala+(0.0343)Orn+(0.0077)Lys+(-0.1032)Trp;0.820,0.841,0.805,0.800,0.833,0.830,0.742,0.801,(5.6200)+(0.0030)Gln+(0.0041)Thr+(-0.1143)Cit+(0.0480)Orn+(-0.1679)Trp;0.820,0.849,0.804,0.811,0.810,0.764,0.799,0.796,(3.4282)+(-0.0015)Gly+(0.0090)Thr+(-0.0081)Val+(0.0797)Phe+(-0.1697)Trp;0.820,0.844,0.749,0.722,0.711,0.813,0.854,0.775,(3.8813)+(-0.1142)His+(-0.0035)Pro+(-0.0364)Val+(0.1198)Ile+(0.0649)Phe;0.820,0.846,0.793,0.771,0.782,0.845,0.837,0.809,(3.0535)+(0.0111)Gln+(-0.1400)His+(0.0017)Pro+(-0.1985)Met+(0.0629)Ile;0.820,0.846,0.817,0.821,0.821,0.817,0.799,0.815,(4.3112)+(0.0040)Gly+(-0.0056)Ala+(-0.0919)Cit+(0.1069)Phe+(-0.1626)Trp;0.820,0.840,0.810,0.803,0.833,0.839,0.763,0.809,(7.3085)+(-0.0052)Ala+(-0.1150)Cit+(0.0030)Val+(0.0591)Orn+(-0.1493)Trp;0.820,0.852,0.812,0.823,0.793,0.793,0.839,0.812,(3.7140)+(-0.0078)Ala+(0.0097)Pro+(-0.0058)Val+(0.0874)Phe+(-0.1560)Trp;0.820,0.841,0.719,0.671,0.725,0.829,0.753,0.744,(2.8038)+(0.0451)Ser+(-0.1322)His+(-0.0417)Cit+(-0.0131)Lys+(0.0676)Ile;0.820,0.847,0.830,0.839,0.832,0.803,0.81

9,0.823,(3.5809)+(0.0023)Gly+(-0.0025)Ala+(-0.1893)Met+(0.1160)Phe+(-0.1403)Trp;0.820,0.845,0.808,0.821,0.800,0.844,0.767,0.808,(4.9891)+(0.0371)Ser+(-0.0957)Asn+(-0.0017)Ala+(0.0037)Lys+(-0.1327)Trp;0.820,0.849,0.791,0.777,0.803,0.820,0.782,0.796,(7.8355)+(-0.0914)His+(0.0062)Pro+(-0.0013)Tyr+(0.0329)Orn+(-0.1025)Trp;0.820,0.847,0.787,0.765,0.758,0.854,0.856,0.808,(6.6554)+(-0.0576)His+(-0.0266)Cit+(-0.0423)Val+(-0.1922)Met+(0.1685)Ile;0.820,0.839,0.769,0.750,0.720,0.839,0.869,0.794,(5.7043)+(-0.0860)His+(-0.0066)Ala+(-0.0356)Val+(-0.0006)Lys+(0.1439)Ile;0.820,0.847,0.750,0.730,0.749,0.796,0.774,0.762,(1.9555)+(0.0345)Ser+(0.0002)Orn+(-0.0152)Lys+(0.0633)Ile+(-0.1627)Trp;0.820,0.844,0.803,0.787,0.812,0.815,0.819,0.808,(6.7937)+(-0.0339)Asn+(-0.0763)Cit+(0.0020)Pro+(0.0591)Ile+(-0.1636)Trp;0.820,0.841,0.745,0.730,0.690,0.854,0.823,0.774,(2.7586)+(0.0417)Ser+(-0.1962)Asn+(0.0064)Thr+(-0.0578)Val+(0.1766)Ile;0.820,0.848,0.810,0.813,0.818,0.850,0.757,0.810,(3.6218)+(0.0368)Ser+(0.0324)Tyr+(-0.1974)Met+(0.0041)Lys+(-0.1464)Trp;0.820,0.846,0.810,0.808,0.823,0.790,0.802,0.806,(3.0360)+(0.0043)Gln+(-0.0994)Cit+(0.0044)Pro+(0.0824)Phe+(-0.1833)Trp;0.820,0.842,0.816,0.807,0.843,0.840,0.763,0.813,(8.0181)+(-0.0414)Asn+(-0.1048)Cit+(-0.0316)Met+(0.0584)Orn+(-0.1399)Trp;0.820,0.839,0.807,0.802,0.829,0.843,0.745,0.805,(7.0842)+(0.0022)Gly+(-0.0048)Ala+(-0.1154)Cit+(0.0606)Orn+(-0.1454)Trp;0.820,0.849,0.817,0.821,0.828,0.780,0.811,0.810,(3.9155)+(-0.0045)Arg+(0.0079)Pro+(-0.2168)Met+(0.1086)Phe+(-0.1439)Trp;0.820,0.853,0.820,0.833,0.818,0.783,0.820,0.813,(2.6073)+(0.0029)Gln+(-0.0061)Val+(-0.0050)Lys+(0.0830)Phe+(-0.1662)Trp;0.820,0.845,0.792,0.776,0.806,0.821,0.785,0.797,(7.7194)+(-0.0999)His+(0.0038)Val+(0.0309)Orn+(0.0062)Lys+(-0.1092)Trp;0.820,0.842,0.787,0.765,0.760,0.854,0.856,0.809,(3.6178)+(0.0088)Gln+(-0.1450)His+(-0.0062)Ala+(-0.0064)Lys+(0.0595)Ile;0.820,0.848,0.819,0.833,0.812,0.847,0.775,0.817,(3.947

3)+(0.0348)Ser+(-0.1160)Asn+(0.0040)Gln+(0.0041)Tyr+(-0.1374)Trp;0.82
0,0.843,0.797,0.777,0.825,0.832,0.765,0.800,(8.3415)+(-0.0748)His+(-0
.0800)Cit+(0.0051)Val+(0.0554)Orn+(-0.1186)Trp;0.820,0.840,0.779,0.76
0,0.789,0.812,0.782,0.786,(7.5761)+(0.0038)Gly+(-0.1009)His+(0.0053)P
ro+(0.0229)Leu+(-0.1125)Trp;0.820,0.844,0.792,0.762,0.786,0.833,0.853
,0.809,(4.5292)+(-0.1168)His+(-0.0048)Ala+(-0.2012)Met+(0.0548)Ile+(0
.0932)Phe;0.820,0.841,0.760,0.733,0.730,0.834,0.839,0.784,(6.1295)+(-
0.0750)Asn+(-0.0790)His+(-0.0422)Val+(0.0329)Orn+(0.1371)Ile;0.820,0.
848,0.813,0.823,0.805,0.797,0.815,0.810,(3.4439)+(0.0116)Thr+(-0.0064
)Ala+(-0.0051)Val+(0.0885)Phe+(-0.1645)Trp;0.820,0.848,0.758,0.725,0.
767,0.825,0.780,0.774,(5.7901)+(-0.1281)His+(0.0327)Thr+(0.0005)Pro+(
-0.2496)Met+(0.0688)Ile;0.820,0.847,0.788,0.763,0.804,0.818,0.797,0.7
96,(7.8291)+(-0.1032)His+(0.0006)Tyr+(0.0311)Orn+(0.0199)Leu+(-0.1128
)Trp;0.820,0.842,0.793,0.782,0.734,0.866,0.893,0.819,(5.9946)+(-0.083
7)Asn+(-0.0083)Ala+(-0.0559)Cit+(-0.0513)Val+(0.1823)Ile;0.820,0.849,
0.836,0.847,0.838,0.801,0.827,0.828,(4.0840)+(-0.0016)Ala+(-0.0047)Va
l+(-0.1828)Met+(0.1204)Phe+(-0.1352)Trp;0.820,0.847,0.747,0.725,0.748
,0.795,0.770,0.760,(2.1114)+(0.0356)Ser+(-0.0007)Gln+(-0.0148)Lys+(0.
0637)Ile+(-0.1617)Trp;0.820,0.838,0.719,0.681,0.698,0.831,0.779,0.747
,(2.6919)+(0.0361)Ser+(-0.1136)His+(-0.0395)Cit+(-0.0284)Val+(0.1211)
Ile;0.820,0.843,0.816,0.824,0.840,0.842,0.727,0.808,(7.8144)+(-0.0004
)Gly+(0.0282)Thr+(-0.0623)Cit+(-0.1484)Met+(-0.1412)Trp;0.820,0.848,0
.841,0.852,0.834,0.817,0.847,0.837,(4.9699)+(-0.0614)Asn+(-0.0038)Ala
+(-0.0054)Val+(0.0961)Phe+(-0.1408)Trp;0.820,0.847,0.833,0.841,0.826,
0.816,0.837,0.830,(4.5194)+(-0.0627)Asn+(0.0021)Gly+(-0.0048)Ala+(0.0
901)Phe+(-0.1479)Trp;0.820,0.847,0.782,0.782,0.783,0.813,0.759,0.784,
(3.9471)+(0.0414)Ser+(-0.1127)Asn+(0.0060)Pro+(0.0107)Leu+(-0.1431)Tr
p;0.820,0.842,0.732,0.705,0.713,0.794,0.802,0.753,(2.9019)+(0.0041)Gl

y+(-0.1325)His+(0.1016)Ile+(-0.0532)Leu+(0.0740)Phe;0.820,0.846,0.803,0.797,0.808,0.817,0.799,0.805,(8.0539)+(-0.0810)His+(0.0101)Pro+(-0.0983)Met+(0.0149)Lys+(-0.1067)Trp;0.820,0.849,0.793,0.796,0.796,0.826,0.757,0.794,(2.4104)+(0.0380)Ser+(0.0023)Gln+(-0.1938)Met+(0.0228)Leu+(-0.1481)Trp;0.820,0.844,0.747,0.728,0.700,0.856,0.818,0.775,(2.6537)+(0.0421)Ser+(-0.2017)Asn+(-0.0592)Val+(0.0261)Orn+(0.1744)Ile;0.820,0.848,0.776,0.768,0.773,0.860,0.746,0.787,(2.9778)+(0.0316)Ser+(0.0064)Gln+(-0.1348)His+(-0.1388)Met+(0.0251)Orn;0.820,0.851,0.819,0.826,0.822,0.856,0.768,0.818,(3.0010)+(0.0345)Ser+(0.0029)Gln+(0.0319)Tyr+(-0.1997)Met+(-0.1457)Trp;0.820,0.848,0.746,0.723,0.756,0.847,0.713,0.760,(3.7160)+(0.0423)Ser+(-0.1210)His+(0.0111)Pro+(-0.1701)Met+(0.0256)Orn;0.820,0.845,0.820,0.817,0.802,0.835,0.855,0.827,(3.9584)+(0.0056)Gln+(-0.0055)Ala+(-0.1655)Met+(0.0738)Ile+(-0.1463)Trp;0.820,0.848,0.808,0.818,0.811,0.770,0.803,0.800,(3.4177)+(-0.0006)Gly+(-0.0084)Val+(0.0121)Orn+(0.0769)Phe+(-0.1616)Trp;0.820,0.847,0.790,0.787,0.771,0.812,0.822,0.798,(5.0355)+(-0.0038)Pro+(-0.0010)Lys+(0.1458)Ile+(-0.0650)Leu+(-0.1441)Trp;0.820,0.848,0.815,0.824,0.806,0.798,0.824,0.813,(2.6599)+(0.0022)Gln+(0.0087)Thr+(-0.0073)Ala+(0.0797)Phe+(-0.1723)Trp;0.820,0.841,0.809,0.798,0.838,0.827,0.766,0.807,(7.6922)+(-0.0491)Asn+(-0.1095)Cit+(0.0550)Orn+(0.0089)Leu+(-0.1543)Trp;0.820,0.840,0.725,0.690,0.731,0.815,0.738,0.744,(1.3549)+(0.0485)Ser+(-0.1511)His+(-0.0358)Cit+(-0.0129)Lys+(0.1073)Phe;0.820,0.847,0.786,0.785,0.774,0.813,0.794,0.791,(5.7244)+(0.0108)Thr+(-0.0268)Arg+(0.1489)Ile+(-0.0687)Leu+(-0.1441)Trp;0.820,0.842,0.750,0.732,0.697,0.858,0.827,0.779,(2.7101)+(0.0441)Ser+(-0.1758)Asn+(-0.0551)Val+(-0.0042)Lys+(0.1742)Ile;0.820,0.838,0.768,0.753,0.717,0.838,0.865,0.793,(5.8640)+(-0.0839)His+(-0.0062)Ala+(-0.0107)Tyr+(-0.0352)Val+(0.1443)Ile;0.820,0.845,0.798,0.811,0.806,0.842,0.720,0.795,(5.3972)+(0.0357)Ser+(-0.0981)Asn+(0

.0118)Thr+(-0.0135)Arg+(-0.1360)Trp;0.820,0.849,0.816,0.829,0.814,0.771,0.819,0.808,(2.6648)+(-0.0010)Gly+(0.0026)Gln+(-0.0072)Val+(0.0792)Phe+(-0.1686)Trp;0.820,0.841,0.797,0.785,0.784,0.824,0.833,0.807,(2.4171)+(-0.0740)Asn+(0.0116)Gln+(-0.1586)His+(-0.0026)Lys+(0.0791)Phe;0.820,0.843,0.761,0.738,0.762,0.781,0.808,0.772,(1.8727)+(0.0390)Ser+(-0.0077)Gly+(-0.0019)Pro+(0.0527)Ile+(-0.1771)Trp;0.820,0.843,0.804,0.796,0.830,0.828,0.751,0.801,(5.5036)+(0.0033)Gln+(-0.1162)Cit+(0.0049)Pro+(0.0473)Orn+(-0.1694)Trp;0.820,0.842,0.814,0.822,0.839,0.838,0.726,0.806,(7.5462)+(0.0269)Thr+(-0.0627)Cit+(-0.1578)Met+(0.0037)Lys+(-0.1433)Trp;0.820,0.840,0.729,0.697,0.728,0.815,0.752,0.748,(-0.0145)+(0.0384)Ser+(0.0051)Gln+(-0.1730)His+(-0.0408)Cit+(0.0904)Phe;0.820,0.846,0.826,0.833,0.835,0.792,0.812,0.818,(4.1876)+(-0.0230)Asn+(-0.1855)Met+(0.0135)Orn+(0.1021)Phe+(-0.1395)Trp;0.819,0.841,0.776,0.751,0.750,0.846,0.845,0.798,(3.

4586)+(0.0075)Gln+(-0.1526)His+(0.0063)Thr+(-0.0068)Ala+(0.0553)Ile;0.819,0.845,0.796,0.786,0.742,0.868,0.883,0.820,(4.9705)+(-0.0055)Ala+(-0.0021)Arg+(-0.0529)Val+(-0.2335)Met+(0.1961)Ile;0.819,0.843,0.787,0.794,0.778,0.838,0.750,0.790,(4.0119)+(0.0325)Ser+(-0.0063)Ala+(-0.0188)Arg+(0.0124)Pro+(-0.1405)Trp;0.819,0.843,0.809,0.822,0.804,0.849,0.752,0.807,(5.2147)+(0.0390)Ser+(-0.0827)Asn+(-0.0012)Ala+(-0.0083)Arg+(-0.1277)Trp;0.819,0.846,0.820,0.823,0.830,0.799,0.807,0.815,(3.0349)+(0.0045)Gln+(-0.0946)Cit+(-0.0022)Val+(0.0896)Phe+(-0.1776)Trp;0.819,0.842,0.814,0.806,0.841,0.836,0.763,0.812,(7.9366)+(-0.0537)Asn+(-0.1095)Cit+(0.0033)Arg+(0.0579)Orn+(-0.1447)Trp;0.819,0.842,0.739,0.707,0.722,0.792,0.818,0.760,(3.4390)+(-0.1330)His+(0.0062)Thr+(0.0984)Ile+(-0.0523)Leu+(0.0695)Phe;0.819,0.843,0.784,0.775,0.740,0.850,0.851,0.804,(4.0429)+(0.0019)Gly+(-0.0569)Val+(-0.3095)Met+(0.0075)Lys+(0.1932)Ile;0.819,0.843,0.813,0.821,0.819,0.853,0.752,0.811,(4.3847)+(

0.0274)Ser+(0.0028)Gln+(-0.0027)Ala+(-0.0727)Cit+(-0.1480)Trp;0.819,0.846,0.750,0.722,0.714,0.812,0.853,0.775,(4.1121)+(-0.1092)His+(-0.0364)Val+(-0.0062)Lys+(0.1199)Ile+(0.0662)Phe;0.819,0.848,0.812,0.818,0.819,0.801,0.790,0.807,(4.0426)+(0.0198)Thr+(-0.0069)Ala+(-0.0260)Arg+(0.0926)Phe+(-0.1716)Trp;0.819,0.840,0.792,0.782,0.824,0.823,0.728,0.789,(6.3702)+(0.0019)Gly+(-0.1160)Cit+(0.0055)Pro+(0.0512)Orn+(-0.1635)Trp;0.819,0.849,0.813,0.813,0.793,0.801,0.863,0.817,(3.7641)+(-0.0059)Ala+(-0.0255)Val+(0.0463)Leu+(0.0859)Phe+(-0.1645)Trp;0.819,0.849,0.829,0.841,0.815,0.800,0.844,0.825,(2.6363)+(0.0032)Gln+(-0.0059)Ala+(-0.0042)Val+(0.0867)Phe+(-0.1629)Trp;0.819,0.840,0.798,0.788,0.827,0.826,0.744,0.796,(6.7008)+(-0.1128)Cit+(0.0057)Pro+(-0.0014)Val+(0.0524)Orn+(-0.1604)Trp;0.819,0.846,0.787,0.788,0.789,0.820,0.754,0.788,(3.9029)+(0.0399)Ser+(-0.1132)Asn+(0.0158)Orn+(0.0117)Leu+(-0.1429)Trp;0.819,0.840,0.791,0.786,0.743,0.862,0.856,0.812,(3.2363)+(0.0039)Gln+(-0.0487)Val+(-0.3009)Met+(0.2021)Ile+(-0.0183)Leu;0.819,0.845,0.815,0.833,0.814,0.851,0.743,0.810,(3.6001)+(0.0327)Ser+(0.0038)Gln+(-0.0115)Arg+(-0.1364)Met+(-0.1340)Trp;0.819,0.845,0.805,0.798,0.810,0.834,0.793,0.809,(8.3645)+(-0.0135)Asn+(-0.0841)His+(-0.0013)Ala+(0.0387)Orn+(-0.0961)Trp;0.819,0.844,0.788,0.778,0.798,0.825,0.769,0.792,(7.4464)+(0.0021)Gly+(-0.0987)His+(0.0322)Orn+(0.0073)Lys+(-0.1043)Trp;0.819,0.846,0.797,0.784,0.810,0.825,0.786,0.801,(8.1507)+(-0.0098)Asn+(-0.0925)His+(0.0044)Val+(0.0344)Orn+(-0.1037)Trp;0.819,0.841,0.785,0.779,0.790,0.811,0.774,0.788,(7.5129)+(0.0027)Gly+(-0.0933)His+(0.0076)Pro+(0.0094)Lys+(-0.1078)Trp;0.819,0.840,0.794,0.793,0.797,0.819,0.771,0.795,(8.2677)+(-0.0161)Asn+(0.0032)Gly+(-0.0804)His+(0.0086)Pro+(-0.0984)Trp;0.819,0.843,0.734,0.701,0.703,0.801,0.835,0.760,(3.5757)+(-0.1237)His+(0.0089)Thr+(-0.0354)Val+(0.1114)Ile+(0.0621)Phe;0.819,0.841,0.712,0.677,0.711,0.803,0.741,0.733,(0.7519)+(0.0412)Ser+(-0.1

652)His+(-0.0051)Val+(0.0138)Orn+(0.0947)Phe;0.819,0.846,0.800,0.778,0.793,0.851,0.836,0.814,(2.9736)+(0.0123)Gln+(-0.1321)His+(-0.0474)Cit+(-0.1934)Met+(0.0684)Ile;0.819,0.844,0.836,0.844,0.840,0.802,0.831,0.829,(4.3744)+(-0.0179)Asn+(-0.0023)Ala+(-0.1658)Met+(0.1118)Phe+(-0.1385)Trp;0.819,0.846,0.783,0.772,0.804,0.819,0.738,0.783,(4.0292)+(0.0327)Ser+(-0.0810)Cit+(-0.0021)Tyr+(0.0186)Leu+(-0.1704)Trp;0.819,0.844,0.805,0.789,0.811,0.821,0.825,0.812,(6.7042)+(-0.0386)Asn+(-0.0790)Cit+(0.0061)Arg+(0.0609)Ile+(-0.1640)Trp;0.819,0.850,0.786,0.779,0.797,0.809,0.766,0.788,(5.6149)+(0.0288)Thr+(-0.0140)Arg+(-0.2303)Met+(0.0661)Ile+(-0.1523)Trp;0.819,0.842,0.812,0.816,0.840,0.833,0.725,0.804,(7.5340)+(0.0274)Thr+(-0.0678)Cit+(0.0046)Val+(-0.1543)Met+(-0.1478)Trp;0.819,0.842,0.790,0.782,0.743,0.857,0.860,0.811,(3.2687)+(0.0038)Gln+(0.0029)Pro+(-0.0541)Val+(-0.3142)Met+(0.1856)Ile;0.819,0.851,0.810,0.820,0.814,0.776,0.801,0.803,(3.4985)+(-0.0076)Val+(0.0135)Orn+(-0.0041)Lys+(0.0796)Phe+(-0.1584)Trp;0.819,0.846,0.799,0.809,0.800,0.839,0.744,0.798,(5.0437)+(0.0353)Ser+(-0.1072)Asn+(0.0081)Thr+(0.0020)Tyr+(-0.1380)Trp;0.819,0.844,0.809,0.803,0.827,0.792,0.800,0.805,(4.8539)+(-0.0915)Cit+(0.0056)Pro+(-0.0050)Lys+(0.0910)Phe+(-0.1705)Trp;0.819,0.838,0.777,0.753,0.750,0.848,0.846,0.799,(3.3101)+(0.0013)Gly+(0.0080)Gln+(-0.1500)His+(-0.0066)Ala+(0.0566)Ile;0.819,0.850,0.813,0.818,0.822,0.774,0.810,0.806,(4.3490)+(-0.0745)Asn+(0.0019)Gly+(0.0034)Pro+(0.0769)Phe+(-0.1572)Trp;0.819,0.847,0.757,0.726,0.768,0.824,0.765,0.771,(6.1261)+(-0.1264)His+(0.0356)Thr+(-0.0097)Arg+(-0.2439)Met+(0.0688)Ile;0.819,0.845,0.785,0.805,0.782,0.753,0.759,0.775,(3.2756)+(0.0137)Thr+(-0.0433)Tyr+(-0.0075)Val+(0.1031)Phe+(-0.1601)Trp;0.819,0.848,0.793,0.782,0.754,0.856,0.862,0.813,(4.8380)+(-0.0400)Cit+(-0.0551)Val+(-0.2838)Met+(0.0079)Lys+(0.1895)Ile;0.819,0.841,0.780,0.762,0.794,0.808,0.778,0.786,(5.3693)+(0.0040)Gly+(-0.0893)Cit+(0.0013)

Pro+(0.0634)Ile+(-0.1751)Trp;0.819,0.850,0.810,0.800,0.817,0.788,0.838,0.811,(3.5208)+(0.0034)Tyr+(-0.2405)Met+(0.0528)Ile+(0.0862)Phe+(-0.1531)Trp;0.819,0.849,0.754,0.740,0.754,0.806,0.753,0.763,(2.2548)+(0.0378)Ser+(-0.0202)Arg+(-0.0099)Lys+(0.0649)Ile+(-0.1617)Trp;0.819,0.848,0.809,0.816,0.792,0.788,0.837,0.808,(3.5866)+(0.0002)Gly+(-0.0084)Ala+(0.0088)Pro+(0.0796)Phe+(-0.1621)Trp;0.819,0.846,0.807,0.810,0.808,0.830,0.780,0.807,(4.1212)+(0.0473)Ser+(-0.0076)Gly+(0.0053)Val+(-0.1432)Met+(-0.1405)Trp;0.819,0.842,0.805,0.788,0.813,0.819,0.822,0.811,(6.9237)+(-0.0263)Asn+(-0.0759)Cit+(-0.0035)Lys+(0.0640)Ile+(-0.1606)Trp;0.819,0.840,0.791,0.784,0.744,0.861,0.858,0.812,(3.1961)+(0.0007)Gly+(0.0037)Gln+(-0.0540)Val+(-0.3085)Met+(0.1890)Ile;0.819,0.848,0.791,0.779,0.804,0.820,0.772,0.794,(8.1047)+(-0.0889)His+(-0.0080)Arg+(0.0066)Pro+(0.0351)Orn+(-0.1023)Trp;0.819,0.840,0.796,0.784,0.783,0.821,0.834,0.806,(2.3534)+(-0.0781)Asn+(0.0116)Gln+(-0.1593)His+(-0.0011)Leu+(0.0789)Phe;0.819,0.848,0.800,0.806,0.796,0.824,0.776,0.800,(3.3185)+(0.0377)Ser+(-0.1223)Asn+(0.0035)Gln+(0.0137)Leu+(-0.1457)Trp;0.819,0.835,0.751,0.723,0.739,0.844,0.782,0.772,(2.2831)+(0.0328)Ser+(0.0055)Gln+(-0.1609)His+(-0.0045)Ala+(0.0230)Leu;0.819,0.839,0.709,0.670,0.704,0.803,0.755,0.733,(0.8284)+(0.0428)Ser+(-0.1626)His+(-0.0157)Val+(0.0267)Leu+(0.0862)Phe;0.819,0.847,0.797,0.795,0.772,0.801,0.852,0.805,(3.5867)+(-0.0083)Ala+(-0.0223)Tyr+(0.0565)Ile+(0.0675)Phe+(-0.1648)Trp;0.819,0.845,0.799,0.810,0.800,0.836,0.744,0.797,(5.0410)+(0.0351)Ser+(-0.1083)Asn+(0.0079)Thr+(0.0013)Lys+(-0.1383)Trp;0.819,0.845,0.799,0.808,0.799,0.840,0.742,0.797,(5.0894)+(0.0351)Ser+(-0.1065)Asn+(0.0084)Thr+(0.0000)Val+(-0.1375)Trp;0.819,0.842,0.804,0.809,0.811,0.850,0.741,0.803,(5.1004)+(0.0315)Ser+(-0.0022)Ala+(-0.0682)Cit+(-0.0005)Lys+(-0.1430)Trp;0.819,0.839,0.806,0.802,0.832,0.831,0.744,0.802,(5.5317)+(0.0007)Gly+(0.0034)Gln+(-0.1146)Cit+(0.0498)Orn+(-0

.1651)Trp;0.819,0.847,0.800,0.799,0.813,0.842,0.745,0.800,(8.9245)+(-0.0816)His+(0.0254)Thr+(-0.0355)Cit+(-0.0072)Arg+(-0.1110)Trp;0.819,0.844,0.791,0.789,0.803,0.824,0.749,0.791,(8.4561)+(-0.0964)His+(0.0232)Thr+(-0.0165)Arg+(0.0084)Lys+(-0.1109)Trp;0.819,0.842,0.813,0.805,0.840,0.835,0.762,0.811,(7.9933)+(-0.0506)Asn+(-0.1077)Cit+(0.0000)Tyr+(0.0583)Orn+(-0.1443)Trp;0.819,0.841,0.706,0.664,0.710,0.797,0.741,0.728,(0.6295)+(0.0423)Ser+(-0.1712)His+(0.0093)Orn+(0.0014)Leu+(0.0859)Phe;0.819,0.844,0.808,0.800,0.786,0.840,0.850,0.819,(2.5701)+(-0.0733)Asn+(0.0114)Gln+(-0.1533)His+(-0.0039)Ala+(0.0844)Phe;0.819,0.844,0.805,0.801,0.822,0.785,0.796,0.801,(4.5915)+(-0.0890)Cit+(0.0061)Pro+(-0.0039)Val+(0.0908)Phe+(-0.1705)Trp;0.819,0.837,0.714,0.680,0.712,0.799,0.744,0.734,(0.7874)+(0.0434)Ser+(-0.1644)His+(-0.0007)Thr+(-0.0034)Val+(0.0971)Phe;0.819,0.843,0.803,0.814,0.816,0.816,0.739,0.796,(7.1863)+(-0.0436)Asn+(0.0255)Thr+(0.0082)Pro+(-0.1649)Met+(-0.1384)Trp;0.819,0.843,0.773,0.754,0.736,0.846,0.847,0.796,(5.5949)+(-0.1089)His+(0.0089)Thr+(-0.0075)Ala+(0.1206)Ile+(-0.0447)Leu;0.819,0.839,0.723,0.695,0.729,0.805,0.728,0.739,(1.0258)+(0.0483)Ser+(-0.1571)His+(-0.0224)Arg+(-0.0035)Val+(0.1070)Phe;0.819,0.843,0.807,0.818,0.800,0.845,0.765,0.807,(4.8514)+(0.0381)Ser+(-0.0891)Asn+(-0.0021)Ala+(0.0028)Val+(-0.1334)Trp;0.819,0.838,0.706,0.666,0.709,0.794,0.743,0.728,(0.6424)+(0.0435)Ser+(-0.1704)His+(0.0009)Pro+(0.0024)Leu+(0.0870)Phe;0.819,0.851,0.796,0.797,0.811,0.767,0.785,0.790,(3.4045)+(0.0098)Thr+(0.0013)Pro+(-0.0090)Lys+(0.0742)Phe+(-0.1739)Trp;0.819,0.846,0.794,0.771,0.784,0.847,0.839,0.810,(3.0265)+(0.0111)Gln+(-0.1412)His+(0.0037)Tyr+(-0.1995)Met+(0.0645)Ile;0.819,0.846,0.792,0.768,0.782,0.847,0.835,0.808,(3.1210)+(0.0106)Gln+(-0.1415)His+(-0.1929)Met+(0.0079)Orn+(0.0622)Ile;0.819,0.837,0.798,0.791,0.831,0.831,0.726,0.795,(6.9514)+(0.0019)Gly+(-0.1150)Cit+(0.0580)Orn+(-0.0047)Lys+(-0.1519)Trp;0.819,0.

850,0.830,0.842,0.831,0.788,0.830,0.823,(4.8461)+(-0.0809)Asn+(-0.009
0)Val+(0.0054)Lys+(0.0907)Phe+(-0.1446)Trp;0.819,0.846,0.793,0.786,0.
747,0.854,0.865,0.813,(5.2002)+(-0.0485)Asn+(-0.0587)Val+(-0.2623)Met
+(0.0107)Lys+(0.1924)Ile;0.819,0.841,0.788,0.784,0.813,0.827,0.720,0.
786,(4.4230)+(0.0308)Ser+(0.0026)Thr+(-0.0806)Cit+(0.0056)Val+(-0.164
8)Trp;0.819,0.841,0.807,0.793,0.830,0.837,0.775,0.809,(7.0592)+(-0.00
60)Ala+(-0.1162)Cit+(0.0569)Orn+(0.0156)Leu+(-0.1579)Trp;0.819,0.841,
0.804,0.794,0.832,0.821,0.759,0.802,(5.3233)+(0.0034)Gln+(-0.1167)Cit
+(0.0469)Orn+(0.0095)Leu+(-0.1751)Trp;0.819,0.850,0.793,0.782,0.794,0
.769,0.836,0.795,(2.5723)+(0.0028)Gln+(-0.0133)Lys+(0.0473)Ile+(0.054
2)Phe+(-0.1805)Trp;0.818,0.849,0.821,0.825,0.829,0.776,0.825,0.814,(4
.6976)+(-0.0704)Asn+(0.0039)Pro+(-0.0040)Leu+(0.0785)Phe+(-0.1543)Trp
;0.818,0.848,0.790,0.811,0.779,0.752,0.785,0.782,(3.5384)+(0.0065)Pro
+(-0.0377)Tyr+(-0.0077)Val+(0.0992)Phe+(-0.1527)Trp;0.818,0.841,0.772
,0.759,0.763,0.848,0.767,0.784,(3.0010)+(0.0361)Ser+(-0.0940)Asn+(0.0
080)Gln+(-0.1367)His+(0.0069)Pro;0.818,0.839,0.793,0.780,0.828,0.817,
0.739,0.791,(6.3180)+(0.0070)Thr+(-0.1152)Cit+(0.0476)Orn+(0.0098)Leu
+(-0.1742)Trp;0.818,0.848,0.833,0.844,0.838,0.795,0.820,0.824,(4.1017
)+(-0.0025)Arg+(-0.0054)Val+(-0.1894)Met+(0.1206)Phe+(-0.1357)Trp;0.8
18,0.840,0.803,0.795,0.802,0.825,0.812,0.808,(8.5098)+(-0.0832)His+(-
0.0040)Ala+(0.0101)Pro+(0.0067)Val+(-0.1054)Trp;0.818,0.840,0.756,0.7
32,0.721,0.833,0.836,0.780,(6.4198)+(-0.0954)Asn+(-0.0820)His+(0.0192
)Thr+(-0.0413)Val+(0.1410)Ile
;0.818,0.848,0.788,0.790,0.794,0.823,0.745,0.788,(3.1844)+(0.0417)Ser
+(-0.0074)Arg+(-0.1723)Met+(0.0234)Leu+(-0.1439)Trp;0.818,0.844,0.804
,0.805,0.823,0.800,0.767,0.799,(4.2676)+(0.0041)Gly+(-0.0949)Cit+(-0.
0053)Lys+(0.0999)Phe+(-0.1686)Trp;0.818,0.848,0.759,0.725,0.767,0.826
,0.781,0.775,(5.7857)+(-0.1286)His+(0.0327)Thr+(-0.2497)Met+(0.0004)L

ys+(0.0692)Ile;0.818,0.840,0.793,0.777,0.814,0.822,0.770,0.796,(6.554
5)+(-0.1087)Cit+(-0.0222)Val+(0.0562)Orn+(0.0448)Leu+(-0.1638)Trp;0.8
18,0.844,0.793,0.795,0.812,0.841,0.716,0.791,(5.0862)+(0.0293)Ser+(0.
0064)Thr+(-0.0735)Cit+(-0.0035)Lys+(-0.1523)Trp;0.818,0.841,0.736,0.7
06,0.704,0.806,0.832,0.762,(3.4076)+(0.0027)Gly+(-0.1189)His+(-0.0351
)Val+(0.1127)Ile+(0.0643)Phe;0.818,0.845,0.783,0.773,0.806,0.819,0.73
6,0.784,(4.1123)+(0.0336)Ser+(-0.0771)Cit+(-0.0055)Arg+(0.0187)Leu+(-
0.1694)Trp;0.818,0.841,0.714,0.661,0.715,0.819,0.777,0.743,(2.2490)+(
0.0441)Ser+(-0.0040)Gly+(-0.1552)His+(0.0082)Orn+(0.0511)Ile;0.818,0.
841,0.798,0.779,0.808,0.812,0.815,0.804,(6.4715)+(-0.0810)Cit+(0.0015
)Pro+(-0.0064)Lys+(0.0652)Ile+(-0.1657)Trp;0.818,0.839,0.717,0.685,0.
729,0.805,0.717,0.734,(1.0088)+(0.0469)Ser+(-0.1644)His+(0.0054)Thr+(
-0.0246)Arg+(0.0997)Phe;0.818,0.845,0.795,0.797,0.804,0.836,0.745,0.7
95,(8.7213)+(0.0004)Gly+(-0.0912)His+(0.0250)Thr+(-0.0127)Arg+(-0.105
9)Trp;0.818,0.842,0.797,0.781,0.822,0.833,0.761,0.799,(8.2398)+(-0.07
31)His+(-0.0773)Cit+(0.0562)Orn+(0.0036)Lys+(-0.1140)Trp;0.818,0.839,
0.780,0.755,0.754,0.849,0.853,0.803,(3.3855)+(0.0082)Gln+(-0.1491)His
+(-0.0070)Ala+(0.0022)Pro+(0.0539)Ile;0.818,0.837,0.710,0.675,0.709,0
.796,0.743,0.730,(0.7533)+(0.0430)Ser+(-0.1646)His+(0.0021)Pro+(-0.00
41)Val+(0.0952)Phe;0.818,0.847,0.735,0.703,0.754,0.829,0.711,0.750,(3
.4918)+(0.0414)Ser+(-0.1408)His+(0.0221)Thr+(-0.2383)Met+(0.0333)Leu;
0.818,0.847,0.795,0.788,0.795,0.777,0.826,0.796,(3.9836)+(-0.0713)Asn
+(0.0021)Gly+(0.0400)Ile+(0.0568)Phe+(-0.1686)Trp;0.818,0.842,0.750,0
.740,0.690,0.854,0.825,0.777,(2.9017)+(0.0425)Ser+(-0.1754)Asn+(-0.01
40)Tyr+(-0.0544)Val+(0.1730)Ile;0.818,0.840,0.749,0.733,0.692,0.855,0
.830,0.777,(2.6409)+(0.0436)Ser+(-0.1850)Asn+(0.0002)Pro+(-0.0564)Val
+(0.1740)Ile;0.818,0.841,0.782,0.785,0.762,0.835,0.776,0.789,(3.3978)
+(0.0300)Ser+(-0.0031)Thr+(-0.0069)Ala+(0.0117)Pro+(-0.1426)Trp;0.818

,0.846,0.808,0.810,0.823,0.796,0.783,0.803,(2.7562)+(0.0024)Gly+(0.0041)Gln+(-0.0995)Cit+(0.0885)Phe+(-0.1810)Trp;0.818,0.841,0.804,0.809,0.811,0.850,0.740,0.803,(5.1292)+(0.0318)Ser+(-0.0022)Ala+(-0.0660)Cit+(-0.0030)Arg+(-0.1427)Trp;0.818,0.836,0.708,0.670,0.710,0.795,0.745,0.730,(0.6236)+(0.0445)Ser+(-0.1676)His+(-0.0025)Thr+(0.0016)Pro+(0.0899)Phe;0.818,0.840,0.814,0.808,0.837,0.847,0.761,0.813,(7.5748)+(-0.0038)Ala+(-0.1081)Cit+(-0.0406)Met+(0.0606)Orn+(-0.1383)Trp;0.818,0.839,0.795,0.781,0.825,0.816,0.751,0.793,(6.4448)+(-0.1152)Cit+(0.0043)Pro+(0.0496)Orn+(0.0079)Leu+(-0.1702)Trp;0.818,0.838,0.771,0.754,0.734,0.846,0.841,0.794,(5.3583)+(0.0030)Gly+(-0.1031)His+(-0.0071)Ala+(0.1259)Ile+(-0.0467)Leu;0.818,0.848,0.807,0.788,0.820,0.820,0.823,0.813,(6.6676)+(-0.0671)Cit+(0.0040)Pro+(-0.1190)Met+(0.0652)Ile+(-0.1528)Trp;0.818,0.844,0.806,0.821,0.810,0.819,0.747,0.799,(4.9689)+(0.0044)Gln+(0.0207)Thr+(0.0081)Pro+(-0.2181)Met+(-0.1454)Trp;0.818,0.844,0.788,0.784,0.777,0.814,0.803,0.794,(5.6927)+(-0.0233)Arg+(0.0151)Orn+(0.1487)Ile+(-0.0708)Leu+(-0.1368)Trp;0.818,0.843,0.812,0.811,0.834,0.830,0.755,0.807,(8.1520)+(-0.0714)Asn+(0.0199)Thr+(-0.0714)Cit+(0.0067)Pro+(-0.1501)Trp;0.818,0.840,0.812,0.804,0.833,0.842,0.763,0.811,(7.3401)+(-0.0049)Ala+(-0.1133)Cit+(0.0037)Tyr+(0.0602)Orn+(-0.1463)Trp;0.818,0.852,0.801,0.810,0.821,0.777,0.755,0.791,(3.9064)+(0.0177)Thr+(-0.0276)Arg+(-0.0086)Val+(0.0930)Phe+(-0.1703)Trp;0.818,0.837,0.774,0.752,0.730,0.851,0.868,0.800,(6.0128)+(-0.0738)His+(-0.0075)Ala+(-0.0441)Cit+(-0.0360)Val+(0.1513)Ile;0.818,0.839,0.788,0.779,0.796,0.815,0.773,0.791,(7.8345)+(0.0033)Gly+(-0.0932)His+(0.0066)Pro+(0.0065)Val+(-0.1067)Trp;0.818,0.852,0.780,0.762,0.788,0.770,0.815,0.784,(3.3340)+(0.0086)Thr+(-0.0141)Lys+(0.0467)Ile+(0.0551)Phe+(-0.1807)Trp;0.818,0.836,0.748,0.713,0.745,0.828,0.790,0.769,(2.1192)+(0.0385)Ser+(-0.0053)Gly+(0.0061)Gln+(-0.1675)His+(0.0173)Leu;0.818,0.846,0.812,0.8

17,0.808,0.795,0.820,0.810,(3.6219)+(-0.0014)Gly+(0.0120)Thr+(-0.0072)Ala+(0.0800)Phe+(-0.1695)Trp;0.818,0.839,0.799,0.791,0.830,0.828,0.732,0.795,(6.6258)+(0.0070)Thr+(-0.1125)Cit+(-0.0002)Val+(0.0507)Orn+(-0.1636)Trp;0.818,0.851,0.835,0.845,0.839,0.798,0.826,0.827,(5.0478)+(-0.0613)Asn+(-0.0079)Arg+(-0.0073)Val+(0.0949)Phe+(-0.1436)Trp;0.818,0.847,0.793,0.803,0.798,0.834,0.730,0.791,(3.6661)+(0.0348)Ser+(0.0023)Val+(-0.1558)Met+(0.0202)Orn+(-0.1388)Trp;0.818,0.846,0.797,0.798,0.789,0.837,0.783,0.802,(4.1390)+(0.0408)Ser+(-0.0969)Asn+(-0.0034)Ala+(0.0190)Leu+(-0.1405)Trp;0.818,0.846,0.817,0.826,0.827,0.787,0.795,0.809,(3.4192)+(0.0018)Gly+(-0.2114)Met+(0.0108)Orn+(0.1074)Phe+(-0.1418)Trp;0.818,0.846,0.753,0.740,0.757,0.798,0.748,0.761,(2.0646)+(0.0354)Ser+(-0.0008)Thr+(-0.0255)Arg+(0.0587)Ile+(-0.1700)Trp;0.818,0.843,0.793,0.787,0.745,0.860,0.860,0.813,(3.1303)+(0.0034)Gln+(-0.0558)Val+(-0.3232)Met+(0.0054)Lys+(0.1905)Ile;0.818,0.844,0.802,0.816,0.808,0.837,0.731,0.798,(4.3379)+(0.0356)Ser+(-0.0127)Arg+(-0.1387)Met+(0.0076)Lys+(-0.1361)Trp;0.818,0.847,0.832,0.838,0.827,0.814,0.840,0.830,(4.8134)+(-0.0633)Asn+(-0.0052)Ala+(0.0150)Orn+(0.0792)Phe+(-0.1462)Trp;0.818,0.839,0.796,0.790,0.828,0.828,0.725,0.792,(6.5057)+(0.0009)Gly+(0.0064)Thr+(-0.1136)Cit+(0.0508)Orn+(-0.1636)Trp;0.818,0.844,0.796,0.795,0.816,0.831,0.734,0.794,(3.8491)+(0.0290)Ser+(0.0021)Gln+(-0.0830)Cit+(0.0057)Val+(-0.1666)Trp;0.818,0.842,0.803,0.816,0.806,0.844,0.732,0.800,(4.5298)+(0.0364)Ser+(-0.0000)Ala+(-0.0086)Arg+(-0.1182)Met+(-0.1303)Trp;0.818,0.835,0.750,0.748,0.678,0.849,0.837,0.778,(1.1964)+(0.0296)Ser+(-0.0101)Ala+(-0.0315)Arg+(-0.0542)Val+(0.1851)Ile;0.818,0.842,0.784,0.773,0.772,0.820,0.809,0.794,(2.0344)+(-0.0859)Asn+(0.0038)Gly+(0.0108)Gln+(-0.1607)His+(0.0835)Phe;0.818,0.845,0.784,0.775,0.741,0.846,0.855,0.804,(4.2952)+(0.0037)Pro+(-0.0573)Val+(-0.3147)Met+(0.0082)Lys+(0.1885)Ile;0.818,0.842,0.751,0.733,0.747,0.784,0.

783,0.762,(1.3450)+(0.0339)Ser+(-0.0094)Thr+(-0.0026)Orn+(0.0559)Ile+(-0.1716)Trp;0.818,0.840,0.752,0.734,0.748,0.786,0.782,0.762,(1.3384)+(0.0337)Ser+(-0.0094)Thr+(-0.0013)Pro+(0.0566)Ile+(-0.1712)Trp;0.818,0.839,0.807,0.802,0.833,0.830,0.751,0.804,(5.5685)+(0.0035)Gln+(-0.1142)Cit+(0.0003)Val+(0.0496)Orn+(-0.1656)Trp;0.818,0.848,0.809,0.789,0.819,0.821,0.830,0.815,(6.3736)+(-0.0722)Cit+(0.0101)Arg+(-0.1247)Met+(0.0698)Ile+(-0.1537)Trp;0.818,0.838,0.719,0.685,0.729,0.803,0.727,0.736,(0.8932)+(0.0489)Ser+(-0.1624)His+(-0.0224)Arg+(0.0020)Leu+(0.0987)Phe;0.818,0.849,0.813,0.825,0.792,0.794,0.841,0.813,(2.6942)+(0.0027)Gln+(-0.0087)Ala+(0.0081)Pro+(0.0771)Phe+(-0.1675)Trp;0.818,0.841,0.706,0.664,0.711,0.797,0.739,0.728,(0.6248)+(0.0422)Ser+(-0.1708)His+(0.0006)Pro+(0.0094)Orn+(0.0867)Phe;0.818,0.845,0.748,0.733,0.758,0.847,0.696,0.759,(4.1959)+(0.0393)Ser+(-0.1177)His+(0.0148)Thr+(0.0118)Pro+(-0.2018)Met;0.818,0.848,0.755,0.720,0.766,0.823,0.778,0.772,(5.6818)+(-0.1314)His+(0.0310)Thr+(-0.2454)Met+(0.0121)Orn+(0.0660)Ile;0.818,0.837,0.789,0.777,0.823,0.816,0.730,0.787,(6.1861)+(0.0023)Gly+(-0.1174)Cit+(0.0509)Orn+(0.0107)Leu+(-0.1698)Trp;0.818,0.848,0.812,0.817,0.822,0.771,0.809,0.805,(3.5126)+(0.0076)Pro+(-0.2382)Met+(0.0050)Lys+(0.1057)Phe+(-0.1480)Trp;0.818,0.843,0.818,0.816,0.833,0.802,0.802,0.813,(4.9089)+(-0.0867)Cit+(-0.0011)Val+(-0.0038)Lys+(0.0963)Phe+(-0.1664)Trp;0.818,0.838,0.811,0.804,0.833,0.841,0.760,0.809,(7.4235)+(-0.0047)Ala+(-0.1122)Cit+(-0.0010)Arg+(0.0608)Orn+(-0.1446)Trp;0.818,0.838,0.709,0.669,0.711,0.796,0.747,0.731,(0.6429)+(0.0444)Ser+(-0.1691)His+(-0.0018)Thr+(0.0030)Leu+(0.0881)Phe;0.818,0.842,0.736,0.706,0.729,0.830,0.762,0.757,(1.1406)+(0.0457)Ser+(-0.1497)His+(-0.0050)Ala+(-0.0380)Cit+(0.1028)Phe;0.818,0.849,0.834,0.843,0.841,0.795,0.825,0.826,(3.9977)+(0.0065)Tyr+(-0.0056)Val+(-0.2034)Met+(0.1191)Phe+(-0.1370)Trp;0.818,0.844,0.802,0.794,0.784,0.835,0.840,0.813,(5.9775)+(

-0.0653)Asn+(0.0165)Thr+(-0.0078)Ala+(0.0629)Ile+(-0.1551)Trp;0.818,0.843,0.813,0.815,0.809,0.832,0.800,0.814,(5.1768)+(0.0477)Ser+(-0.0959)Asn+(-0.0072)Gly+(0.0023)Lys+(-0.1359)Trp;0.818,0.843,0.800,0.804,0.816,0.838,0.729,0.797,(4.2876)+(0.0269)Ser+(0.0021)Gln+(0.0030)Thr+(-0.0768)Cit+(-0.1579)Trp;0.818,0.841,0.797,0.786,0.783,0.862,0.806,0.809,(3.3615)+(0.0412)Ser+(-0.0873)Asn+(-0.0055)Gly+(0.0089)Gln+(-0.1332)His;0.818,0.842,0.763,0.751,0.711,0.878,0.821,0.790,(0.6856)+(0.0291)Ser+(-0.0136)Ala+(-0.0993)Cit+(0.1894)Ile+(-0.0840)Leu;0.818,0.844,0.815,0.814,0.829,0.794,0.805,0.811,(2.9976)+(0.0045)Gln+(-0.0969)Cit+(0.0027)Leu+(0.0837)Phe+(-0.1827)Trp;0.818,0.840,0.795,0.783,0.783,0.822,0.835,0.805,(2.3417)+(-0.0780)Asn+(0.0116)Gln+(-0.1598)His+(0.0000)Pro+(0.0775)Phe;0.818,0.847,0.813,0.817,0.822,0.854,0.754,0.811,(3.9959)+(0.0396)Ser+(-0.0104)Arg+(0.0354)Tyr+(-0.1759)Met+(-0.1407)Trp;0.818,0.846,0.792,0.792,0.777,0.812,0.810,0.798,(5.6511)+(-0.0239)Arg+(0.0066)Lys+(0.1543)Ile+(-0.0744)Leu+(-0.1411)Trp;0.818,0.842,0.716,0.677,0.711,0.818,0.759,0.741,(2.8004)+(0.0426)Ser+(-0.1384)His+(-0.0171)Tyr+(-0.0102)Lys+(0.0669)Ile;0.817,0.841,0.800,0.795,0.815,0.831,0.758,0.800,(4.9713)+(0.0362)Ser+(-0.0057)Gly+(0.0057)Thr+(-0.0682)Cit+(-0.1561)Trp;0.817,0.838,0.802,0.793,0.835,0.829,0.741,0.799,(7.1864)+(-0.1139)Cit+(0.0013)Val+(0.0577)Orn+(-0.0050)Lys+(-0.1536)Trp;0.817,0.837,0.709,0.661,0.709,0.813,0.762,0.736,(2.1478)+(0.0410)Ser+(-0.1521)His+(-0.0032)Thr+(-0.0013)Pro+(0.0574)Ile;0.817,0.850,0.828,0.845,0.830,0.785,0.805,0.817,(2.6775)+(0.0043)Gln+(-0.0221)Arg+(-0.0068)Val+(0.0888)Phe+(-0.1666)Trp;0.817,0.844,0.783,0.766,0.745,0.857,0.850,0.805,(4.0028)+(0.0029)Gly+(0.0215)Tyr+(-0.0568)Val+(-0.3211)Met+(0.1954)Ile;0.817,0.850,0.798,0.799,0.814,0.767,0.786,0.792,(3.4267)+(0.0104)Thr+(-0.0093)Lys+(0.0013)Leu+(0.0743)Phe+(-0.1745)Trp;0.817,0.842,0.803,0.817,0.803,0.830,0.748,0.800,(6.7175)+(0.0237)Thr+(-0.00

44)Ala+(0.0116)Pro+(-0.1791)Met+(-0.1365)Trp;0.817,0.846,0.794,0.773,0.782,0.847,0.838,0.810,(3.0885)+(0.0111)Gln+(-0.1403)His+(-0.1935)Met+(-0.0001)Lys+(0.0648)Ile;0.817,0.843,0.784,0.774,0.740,0.855,0.853,0.806,(5.1113)+(-0.0441)Asn+(0.0032)Gly+(-0.0550)Val+(-0.2366)Met+(0.1902)Ile;0.817,0.843,0.826,0.826,0.829,0.817,0.825,0.824,(4.9804)+(-0.0056)Ala+(-0.0864)Cit+(0.0012)Val+(0.1026)Phe+(-0.1627)Trp;0.817,0.848,0.794,0.771,0.809,0.828,0.798,0.802,(8.0409)+(-0.0956)His+(-0.0548)Met+(0.0330)Orn+(0.0215)Leu+(-0.1079)Trp;0.817,0.842,0.809,0.793,0.820,0.822,0.822,0.814,(6.7733)+(-0.0051)Asn+(-0.0657)Cit+(-0.1047)Met+(0.0686)Ile+(-0.1515)Trp;0.817,0.840,0.792,0.782,0.800,0.805,0.796,0.795,(7.8575)+(-0.0936)His+(0.0065)Pro+(0.0041)Val+(0.0084)Lys+(-0.1128)Trp;0.817,0.845,0.828,0.830,0.831,0.820,0.824,0.826,(5.1124)+(-0.0053)Ala+(-0.0856)Cit+(-0.0020)Lys+(0.1056)Phe+(-0.1594)Trp;0.817,0.838,0.798,0.789,0.828,0.825,0.742,0.796,(6.8363)+(-0.1106)Cit+(-0.0051)Arg+(0.0056)Pro+(0.0525)Orn+(-0.1612)Trp;0.817,0.838,0.804,0.798,0.834,0.838,0.731,0.800,(7.0154)+(0.0022)Gly+(-0.1059)Cit+(-0.0699)Met+(0.0560)Orn+(-0.1430)Trp;0.817,0.835,0.796,0.790,0.826,0.825,0.727,0.792,(6.5616)+(0.0018)Gly+(-0.1139)Cit+(0.0005)Val+(0.0540)Orn+(-0.1590)Trp;0.817,0.843,0.806,0.797,0.791,0.823,0.851,0.816,(5.9392)+(-0.0070)Ala+(0.0076)Pro+(-0.1412)Met+(0.0692)Ile+(-0.1386)Trp;0.817,0.842,0.801,0.786,0.825,0.840,0.763,0.803,(8.5097)+(-0.0669)His+(-0.0790)Cit+(-0.0194)Met+(0.0591)Orn+(-0.1089)Trp;0.817,0.849,0.803,0.803,0.819,0.769,0.793,0.796,(3.7106)+(-0.0016)Gly+(0.0118)Thr+(-0.0091)Lys+(0.0740)Phe+(-0.1739)Trp;0.817,0.848,0.792,0.777,0.753,0.858,0.865,0.813,(5.0372)+(-0.0457)Cit+(0.0061)Arg+(-0.0524)Val+(-0.2640)Met+(0.1874)Ile;0.817,0.844,0.785,0.785,0.789,0.818,0.751,0.786,(4.1995)+(0.0384)Ser+(-0.1147)Asn+(0.0065)Thr+(0.0142)Leu+(-0.1468)Trp;0.817,0.842,0.751,0.727,0.718,0.810,0.843,0.775

,(4.3668)+(-0.1041)His+(-0.0187)Arg+(-0.0404)Val+(0.1267)Ile+(0.0715)Phe;0.817,0.840,0.791,0.785,0.815,0.831,0.726,0.789,(4.6350)+(0.0339)Ser+(-0.0794)Cit+(0.0078)Val+(-0.0057)Lys+(-0.1587)Trp;0.817,0.846,0.754,0.742,0.758,0.798,0.747,0.761,(2.0255)+(0.0346)Ser+(0.0003)Gln+(-0.0263)Arg+(0.0584)Ile+(-0.1709)Trp;0.817,0.842,0.719,0.682,0.734,0.808,0.722,0.736,(0.8698)+(0.0473)Ser+(-0.1630)His+(-0.0239)Arg+(0.0140)Orn+(0.0959)Phe;0.817,0.838,0.791,0.772,0.767,0.853,0.844,0.809,(3.4742)+(0.0105)Gln+(-0.1492)His+(-0.0060)Ala+(-0.0183)Arg+(0.0569)Ile;0.817,0.840,0.781,0.766,0.793,0.810,0.778,0.787,(5.5223)+(0.0039)Gly+(-0.0868)Cit+(-0.0055)Tyr+(0.0653)Ile+(-0.1716)Trp;0.817,0.838,0.777,0.753,0.766,0.833,0.823,0.793,(3.6658)+(-0.0813)Asn+(0.0099)Gln+(-0.1537)His+(0.0111)Thr+(0.0424)Ile;0.817,0.839,0.810,0.806,0.837,0.832,0.745,0.805,(5.6765)+(0.0042)Gln+(-0.1093)Cit+(-0.0090)Arg+(0.0509)Orn+(-0.1634)Trp;0.817,0.838,0.711,0.668,0.718,0.819,0.735,0.735,(2.5179)+(0.0435)Ser+(-0.1481)His+(0.0024)Thr+(-0.0198)Arg+(0.0573)Ile;0.817,0.841,0.710,0.669,0.714,0.799,0.745,0.732,(0.5896)+(0.0437)Ser+(-0.1684)His+(-0.0038)Thr+(0.0115)Orn+(0.0881)Phe;0.817,0.847,0.807,0.832,0.795,0.763,0.799,0.797,(2.5118)+(0.0032)Gln+(-0.0357)Tyr+(-0.0064)Val+(0.0985)Phe+(-0.1587)Trp;0.817,0.844,0.783,0.802,0.781,0.744,0.766,0.773,(2.5234)+(0.0020)Gln+(0.0099)Thr+(-0.0448)Tyr+(0.0893)Phe+(-0.1712)Trp;0.817,0.845,0.795,0.780,0.808,0.824,0.786,0.799,(7.9602)+(-0.0960)His+(0.0028)Tyr+(0.0046)Val+(0.0331)Orn+(-0.1060)Trp;0.817,0.847,0.807,0.814,0.792,0.789,0.833,0.807,(3.5888)+(-0.0085)Ala+(0.0083)Pro+(0.0066)Orn+(0.0753)Phe+(-0.1616)Trp;0.817,0.843,0.789,0.785,0.811,0.780,0.760,0.784,(3.8751)+(0.0039)Gly+(-0.0984)Cit+(0.0054)Pro+(0.0887)Phe+(-0.1775)Trp;0.817,0.847,0.808,0.814,0.792,0.788,0.838,0.808,(3.6156)+(-0.0086)Ala+(0.0086)Pro+(0.0023)Leu+(0.0777)Phe+(-0.1634)Trp;0.817,0.843,0.798,0.777,0.807,0.820,0.820,0.806,(6.3793)+(-0.0856)Cit

+(0.0075)Arg+(-0.0085)Lys+(0.0682)Ile+(-0.1661)Trp;0.817,0.845,0.753,0.740,0.758,0.797,0.744,0.760,(2.0776)+(0.0348)Ser+(-0.0264)Arg+(0.0023)Orn+(0.0577)Ile+(-0.1706)Trp;0.817,0.841,0.781,0.785,0.763,0.838,0.768,0.788,(3.6438)+(0.0298)Ser+(-0.0067)Ala+(0.0114)Pro+(-0.0039)Lys+(-0.1405)Trp;0.817,0.839,0.724,0.691,0.732,0.804,0.739,0.742,(1.0386)+(0.0513)Ser+(-0.0020)Gly+(-0.1604)His+(-0.0218)Arg+(0.0991)Phe;0.817,0.844,0.792,0.781,0.805,0.827,0.771,0.796,(7.6888)+(0.0022)Gly+(-0.0943)His+(0.0075)Tyr+(0.0343)Orn+(-0.1008)Trp;0.817,0.844,0.815,0.809,0.832,0.798,0.807,0.812,(4.9553)+(-0.0892)Cit+(-0.0057)Lys+(0.0068)Leu+(0.0906)Phe+(-0.1714)Trp;0.817,0.838,0.771,0.755,0.724,0.838,0.863,0.795,(6.1166)+(-0.0798)His+(-0.0063)Ala+(-0.0113)Arg+(-0.0377)Val+(0.1500)Ile;0.817,0.849,0.770,0.762,0.724,0.869,0.816,0.793,(-0.0057)+(0.0397)Ser+(-0.0079)Ala+(-0.2609)Met+(0.1853)Ile+(-0.0750)Leu;0.817,0.839,0.788,0.768,0.798,0.802,0.808,0.794,(7.8361)+(-0.0982)His+(0.0053)Pro+(0.0056)Lys+(0.0186)Leu+(-0.1169)Trp;0.817,0.838,0.785,0.768,0.749,0.849,0.858,0.806,(6.1011)+(-0.0149)Asn+(-0.0941)His+(-0.0070)Ala+(0.1282)Ile+(-0.0497)Leu;0.817,0.841,0.799,0.793,0.802,0.810,0.802,0.802,(8.2168)+(-0.0253)Asn+(-0.0847)His+(0.0077)Pro+(0.0112)Lys+(-0.1086)Trp;0.817,0.847,0.821,0.829,0.829,0.784,0.813,0.814,(4.4315)+(-0.0722)Asn+(0.0019)Gly+(-0.0020)Leu+(0.0820)Phe+(-0.1538)Trp;0.817,0.844,0.820,0.816,0.813,0.826,0.841,0.824,(4.0472)+(-0.0368)Asn+(0.0067)Gln+(-0.1757)Met+(0.0625)Ile+(-0.1473)Trp;0.817,0.849,0.832,0.843,0.820,0.807,0.846,0.829,(2.6700)+(0.0037)Gln+(-0.0062)Ala+(-0.0050)Lys+(0.0845)Phe+(-0.1638)Trp;0.817,0.845,0.788,0.764,0.805,0.819,0.794,0.795,(7.9800)+(-0.1013)His+(-0.0039)Arg+(0.0327)Orn+(0.0194)Leu+(-0.1118)Trp;0.817,0.841,0.780,0.786,0.761,0.832,0.765,0.786,(3.5677)+(0.0283)Ser+(-0.0067)Ala+(0.0116)Pro+(-0.0061)Tyr+(-0.1425)Trp;0.817,0.845,0.753,0.740,0.758,0.798,0.747,0.761,(2.0885)+(0.0350)Ser+(-0.0259)Arg

+(-0.0002)Pro+(0.0587)Ile+(-0.1704)Trp;0.817,0.844,0.814,0.815,0.812,0.836,0.801,0.816,(5.1765)+(0.0482)Ser+(-0.0937)Asn+(-0.0072)Gly+(0.0040)Tyr+(-0.1354)Trp;0.817,0.843,0.761,0.763,0.756,0.740,0.782,0.761,(2.9355)+(0.0092)Thr+(-0.0466)Tyr+(0.0414)Ile+(0.0691)Phe+(-0.1786)Trp;0.817,0.843,0.805,0.810,0.818,0.844,0.737,0.802,(4.3246)+(0.0282)Ser+(0.0028)Gln+(-0.0746)Cit+(-0.0033)Lys+(-0.1517)Trp;0.817,0.842,0.824,0.821,0.798,0.841,0.872,0.833,(4.4659)+(-0.0664)Asn+(0.0056)Gln+(-0.0073)Ala+(0.0629)Ile+(-0.1532)Trp;0.817,0.841,0.711,0.663,0.723,0.823,0.734,0.736,(2.4544)+(0.0430)Ser+(-0.1492)His+(-0.0203)Arg+(0.0129)Orn+(0.0540)Ile;0.817,0.836,0.776,0.755,0.763,0.832,0.820,0.793,(3.3294)+(-0.0690)Asn+(0.0025)Gly+(0.0102)Gln+(-0.1504)His+(0.0452)Ile;0.817,0.845,0.771,0.786,0.771,0.734,0.754,0.762,(3.1212)+(0.0109)Thr+(0.0035)Pro+(-0.0469)Tyr+(0.0888)Phe+(-0.1690)Trp;0.817,0.843,0.793,0.794,0.811,0.835,0.720,0.790,(4.8039)+(0.0292)Ser+(0.0045)Thr+(-0.0745)Cit+(0.0016)Tyr+(-0.1561)Trp;0.817,0.845,0.797,0.796,0.806,0.833,0.753,0.797,(8.7070)+(-0.0923)His+(0.0245)Thr+(-0.0130)Arg+(0.0067)Tyr+(-0.1088)Trp;0.817,0.843,0.815,0.824,0.840,0.843,0.720,0.807,(7.8566)+(0.0288)Thr+(-0.0606)Cit+(-0.0033)Arg+(-0.1469)Met+(-0.1407)Trp;0.817,0.839,0.722,0.684,0.714,0.812,0.778,0.747,(2.8598)+(0.0459)Ser+(-0.0049)Gly+(-0.1415)His+(-0.0277)Tyr+(0.0600)Ile;0.817,0.847,0.809,0.814,0.804,0.795,0.815,0.807,(3.3796)+(0.0099)Thr+(-0.0072)Ala+(0.0049)Orn+(0.0783)Phe+(-0.1683)Trp;0.817,0.834,0.760,0.736,0.753,0.836,0.784,0.777,(2.5445)+(0.0369)Ser+(-0.0056)Gly+(0.0065)Gln+(-0.1597)His+(0.0045)Val;0.817,0.844,0.801,0.798,0.761,0.839,0.863,0.815,(0.7992)+(-0.0078)Ala+(-0.2759)Met+(0.1837)Ile+(-0.0942)Leu+(0.1049)Phe;0.817,0.842,0.811,0.811,0.818,0.841,0.777,0.812,(7.3528)+(0.0142)Thr+(-0.0069)Ala+(-0.0775)Cit+(0.0128)Pro+(-0.1500)Trp;0.817,0.840,0.781,0.765,0.795,0.808,0.779,0.787,(5.4141)+(0.0040)Gly+(-0.0881)Cit+(-0.0006)Arg+(0.0

648)Ile+(-0.1741)Trp;0.817,0.840,0.778,0.751,0.754,0.848,0.848,0.800,(3.4314)+(0.0078)Gln+(-0.1510)His+(-0.0067)Ala+(0.0108)Orn+(0.0528)Ile;0.817,0.837,0.808,0.801,0.837,0.834,0.749,0.805,(7.3074)+(-0.1036)Cit+(-0.0668)Met+(0.0563)Orn+(0.0001)Lys+(-0.1431)Trp;0.817,0.846,0.825,0.844,0.819,0.783,0.819,0.816,(4.8884)+(-0.0619)Asn+(-0.0235)Tyr+(-0.0067)Val+(0.1035)Phe+(-0.1372)Trp;0.817,0.840,0.753,0.726,0.725,0.836,0.823,0.777,(3.7114)+(0.0051)Gly+(-0.1411)His+(-0.0072)Ala+(0.0467)Ile+(0.0608)Phe;0.817,0.836,0.808,0.801,0.837,0.833,0.750,0.805,(7.2786)+(-0.1042)Cit+(0.0009)Val+(-0.0676)Met+(0.0556)Orn+(-0.1447)Trp;0.817,0.844,0.735,0.697,0.751,0.828,0.736,0.753,(2.9922)+(0.0496)Ser+(-0.1308)His+(0.0096)Pro+(-0.2000)Met+(0.0263)Leu;0.817,0.843,0.796,0.778,0.786,0.845,0.830,0.810,(3.1299)+(0.0123)Gln+(-0.1400)His+(-0.0116)Arg+(-0.1808)Met+(0.0640)Ile;0.817,0.845,0.742,0.710,0.725,0.800,0.821,0.764,(3.4520)+(-0.1291)His+(0.0141)Orn+(0.1002)Ile+(-0.0551)Leu+(0.0668)Phe;0.817,0.837,0.717,0.681,0.729,0.799,0.724,0.733,(0.8335)+(0.0490)Ser+(-0.1620)His+(-0.0233)Arg+(0.0028)Pro+(0.0982)Phe;0.817,0.845,0.790,0.777,0.750,0.859,0.855,0.810,(5.2418)+(-0.0422)Cit+(-0.0463)Val+(-0.2440)Met+(0.2017)Ile+(-0.0208)Leu;0.816,0.847,0.821,0.824,0.832,0.800,0.805,0.815,(3.0290)+(0.0052)Gln+(-0.0912)Cit+(-0.0083)Arg+(0.0882)Phe+(-0.1792)Trp;0.816,0.851,0.809,0.820,0.816,0.772,0.795,0.801,(3.9854)+(-0.0180)Arg+(0.0056)Pro+(-0.0081)Val+(0.0887)Phe+(-0.1600)Trp;0.816,0.840,0.798,0.790,0.815,0.825,0.762,0.798,(4.5172)+(0.0387)Ser+(-0.0051)Gly+(-0.0726)Cit+(0.0054)Val+(-0.1615)Trp;0.816,0.843,0.786,0.778,0.741,0.850,0.853,0.806,(4.2985)+(-0.0517)Val+(-0.2992)Met+(0.0084)Lys+(0.2071)Ile+(-0.0194)Leu;0.816,0.846,0.789,0.776,0.747,0.852,0.866,0.810,(4.1445)+(0.0157)Tyr+(-0.0585)Val+(-0.3286)Met+(0.0073)Lys+(0.1952)Ile;0.816,0.843,0.806,0.807,0.817,0.853,0.750,0.807,(4.8811)+(0.0313)Ser+(-0.0030)Ala+(-0.0710)Cit+(0.0125)Tyr+(-0.1487

)Trp;0.816,0.845,0.793,0.781,0.751,0.857,0.867,0.814,(5.8228)+(-0.031
3)Asn+(-0.0384)Cit+(-0.0530)Val+(-0.2186)Met+(0.1863)Ile;0.816,0.841,
0.775,0.762,0.771,0.853,0.764,0.787,(3.2365)+(0.0336)Ser+(-0.0931)Asn
+(0.0074)Gln+(-0.1364)His+(0.0217)Orn;0.816,0.842,0.794,0.777,0.767,0
.854,0.853,0.813,(6.3876)+(-0.0815)His+(-0.0055)Ala+(-0.1265)Met+(0.1
427)Ile+(-0.0517)Leu;0.816,0.839,0.798,0.791,0.833,0.828,0.721,0.793,
(6.8841)+(0.0095)Thr+(-0.1076)Cit+(-0.0089)Arg+(0.0510)Orn+(-0.1630)T
rp;0.816,0.837,0.785,0.788,0.767,0.810,0.797,0.791,(2.0762)+(0.0118)G
ln+(-0.1624)His+(-0.0223)Arg+(-0.0405)Tyr+(0.1036)Phe;0.816,0.838,0.7
85,0.766,0.785,0.810,0.816,0.794,(8.1017)+(-0.0905)His+(0.0067)Pro+(-
0.0182)Val+(0.0493)Leu+(-0.1104)Trp;0.816,0.847,0.805,0.819,0.805,0.8
34,0.748,0.802,(3.1241)+(0.0333)Ser+(0.0029)Gln+(0.0046)Val+(-0.1591)
Met+(-0.1427)Trp;0.816,0.842,
0.803,0.796,0.824,0.782,0.796,0.799,(4.6348)+(-0.0894)Cit+(-0.0027)Ar
g+(0.0053)Pro+(0.0861)Phe+(-0.1748)Trp;0.816,0.837,0.803,0.795,0.835,
0.830,0.740,0.800,(7.2114)+(-0.1124)Cit+(-0.0005)Arg+(0.0582)Orn+(-0.
0044)Lys+(-0.1516)Trp;0.816,0.853,0.758,0.744,0.744,0.865,0.748,0.775
,(0.5082)+(0.0419)Ser+(-0.0736)Cit+(-0.2799)Met+(0.1764)Ile+(-0.0753)
Leu;0.816,0.843,0.793,0.795,0.815,0.838,0.710,0.790,(5.0441)+(0.0293)
Ser+(0.0070)Thr+(-0.0688)Cit+(-0.0078)Arg+(-0.1546)Trp;0.816,0.841,0.
800,0.811,0.810,0.811,0.741,0.793,(6.7349)+(-0.0020)Gly+(0.0252)Thr+(
0.0083)Pro+(-0.1979)Met+(-0.1424)Trp;0.816,0.852,0.812,0.818,0.816,0.
770,0.817,0.805,(2.5514)+(0.0029)Gln+(0.0019)Pro+(-0.0076)Lys+(0.0729
)Phe+(-0.1730)Trp;0.816,0.848,0.813,0.822,0.816,0.775,0.810,0.806,(3.
5483)+(0.0001)Gly+(-0.0064)Val+(-0.0026)Lys+(0.0848)Phe+(-0.1615)Trp;
0.816,0.846,0.817,0.823,0.824,0.783,0.807,0.809,(4.4239)+(-0.0760)Asn
+(0.0015)Gly+(0.0109)Orn+(0.0729)Phe+(-0.1545)Trp;0.816,0.845,0.828,0
.836,0.832,0.801,0.820,0.822,(3.8911)+(-0.0028)Ala+(-0.1867)Met+(0.01

38)Orn+(0.1055)Phe+(-0.1388)Trp;0.816,0.844,0.804,0.797,0.811,0.835,0.786,0.807,(8.2440)+(-0.0838)His+(-0.0010)Ala+(-0.0284)Met+(0.0390)Orn+(-0.0950)Trp;0.816,0.842,0.798,0.807,0.800,0.837,0.741,0.796,(3.8811)+(0.0364)Ser+(-0.0011)Ala+(0.0056)Val+(-0.1376)Met+(-0.1393)Trp;0.816,0.845,0.798,0.792,0.806,0.836,0.768,0.801,(7.9404)+(0.0023)Gly+(-0.0867)His+(-0.0374)Met+(0.0377)Orn+(-0.0945)Trp;0.816,0.844,0.830,0.837,0.838,0.792,0.819,0.822,(4.3182)+(-0.0177)Asn+(-0.0018)Arg+(-0.1795)Met+(0.1101)Phe+(-0.1407)Trp;0.816,0.834,0.757,0.733,0.749,0.835,0.781,0.774,(2.6539)+(0.0373)Ser+(-0.0059)Gly+(0.0061)Gln+(-0.1542)His+(0.0051)Pro;0.816,0.839,0.779,0.770,0.737,0.852,0.842,0.800,(4.4032)+(0.0021)Gly+(-0.0495)Val+(-0.2760)Met+(0.2034)Ile+(-0.0172)Leu;0.816,0.844,0.800,0.793,0.801,0.774,0.837,0.801,(4.3283)+(-0.0662)Asn+(0.0010)Orn+(0.0391)Ile+(0.0545)Phe+(-0.1686)Trp;0.816,0.843,0.799,0.782,0.824,0.836,0.761,0.801,(8.3587)+(-0.0699)His+(-0.0809)Cit+(0.0019)Arg+(0.0585)Orn+(-0.1118)Trp;0.816,0.841,0.780,0.768,0.732,0.828,0.879,0.802,(4.1252)+(-0.1423)Asn+(-0.0544)Cit+(-0.0597)Val+(0.1659)Ile+(0.0750)Phe;0.816,0.848,0.817,0.823,0.809,0.797,0.827,0.814,(4.1775)+(-0.0080)Ala+(-0.0161)Arg+(0.0096)Pro+(0.0869)Phe+(-0.1583)Trp;0.816,0.847,0.821,0.829,0.814,0.801,0.828,0.818,(3.6504)+(-0.0056)Ala+(-0.0058)Val+(0.0143)Orn+(0.0831)Phe+(-0.1538)Trp;0.816,0.842,0.803,0.793,0.808,0.834,0.798,0.808,(8.1019)+(-0.0889)His+(-0.0019)Ala+(0.0092)Tyr+(0.0364)Orn+(-0.1003)Trp;0.816,0.844,0.801,0.812,0.799,0.833,0.754,0.800,(4.7840)+(0.0378)Ser+(-0.0999)Asn+(0.0005)Val+(0.0028)Lys+(-0.1358)Trp;0.816,0.837,0.761,0.733,0.745,0.815,0.829,0.781,(1.8370)+(0.0085)Gln+(-0.1746)His+(-0.0043)Pro+(0.0348)Ile+(0.0520)Phe;0.816,0.846,0.808,0.812,0.802,0.796,0.818,0.807,(3.3612)+(0.0107)Thr+(-0.0075)Ala+(0.0041)Leu+(0.0781)Phe+(-0.1718)Trp;0.816,0.842,0.810,0.810,0.813,0.845,0.775,0.811,(5.1441)+(0.0382)Ser+(-0.0052)Gly+(-0.0021)Ala+(-0.0626

)Cit+(-0.1437)Trp;0.816,0.841,0.747,0.726,0.745,0.783,0.777,0.758,(1.5926)+(0.0353)Ser+(-0.0012)Gln+(-0.0090)Thr+(0.0558)Ile+(-0.1697)Trp;0.816,0.839,0.770,0.746,0.762,0.820,0.817,0.786,(1.7326)+(0.0112)Gln+(-0.1739)His+(-0.0240)Arg+(0.0308)Ile+(0.0571)Phe;0.816,0.835,0.781,0.773,0.713,0.866,0.882,0.809,(5.4822)+(-0.1371)Asn+(0.0169)Thr+(-0.0075)Ala+(-0.0567)Val+(0.1823)Ile;0.816,0.843,0.821,0.827,0.832,0.787,0.807,0.813,(3.7536)+(-0.2066)Met+(0.0118)Orn+(0.0007)Leu+(0.1039)Phe+(-0.1422)Trp;0.816,0.841,0.804,0.789,0.811,0.817,0.817,0.809,(6.8311)+(-0.0318)Asn+(-0.0747)Cit+(-0.0024)Tyr+(0.0615)Ile+(-0.1619)Trp;0.816,0.835,0.777,0.762,0.764,0.847,0.791,0.791,(3.2043)+(0.0374)Ser+(-0.0063)Gly+(0.0070)Gln+(-0.1458)His+(-0.0052)Lys;0.816,0.844,0.787,0.772,0.750,0.852,0.856,0.808,(5.1983)+(-0.0403)Cit+(0.0036)Pro+(-0.0528)Val+(-0.2615)Met+(0.1839)Ile;0.816,0.839,0.805,0.802,0.800,0.826,0.805,0.808,(8.7345)+(-0.0073)Asn+(-0.0740)His+(-0.0034)Ala+(0.0116)Pro+(-0.0980)Trp;0.816,0.840,0.791,0.781,0.769,0.835,0.835,0.805,(2.4226)+(0.0094)Gln+(-0.1617)His+(-0.0041)Ala+(-0.0051)Lys+(0.0818)Phe;0.816,0.846,0.814,0.821,0.813,0.845,0.778,0.814,(4.8322)+(0.0467)Ser+(-0.0076)Gly+(-0.0081)Arg+(-0.1166)Met+(-0.1302)Trp;0.816,0.846,0.800,0.794,0.800,0.820,0.804,0.805,(4.3939)+(0.0503)Ser+(-0.1017)Asn+(-0.0070)Gly+(0.0143)Leu+(-0.1452)Trp;0.816,0.838,0.782,0.764,0.753,0.842,0.845,0.801,(3.6565)+(0.0083)Gln+(-0.1445)His+(-0.0057)Ala+(-0.0171)Tyr+(0.0582)Ile;0.816,0.846,0.816,0.826,0.827,0.777,0.797,0.807,(3.1977)+(0.0022)Gly+(-0.2231)Met+(0.0055)Lys+(0.1116)Phe+(-0.1470)Trp;0.816,0.845,0.791,0.792,0.773,0.811,0.810,0.797,(6.0579)+(-0.0176)Arg+(-0.0119)Tyr+(0.1520)Ile+(-0.0686)Leu+(-0.1316)Trp;0.816,0.837,0.787,0.765,0.772,0.839,0.839,0.804,(3.5173)+(-0.0635)Asn+(0.0108)Gln+(-0.1507)His+(-0.0023)Pro+(0.0466)Ile;0.816,0.835,0.713,0.664,0.718,0.817,0.760,0.739,(2.3768)+(0.0445)Ser+(-0.0023)Gly+(-0.1446)His+(-0.0369)Cit+(0.05

61)Ile;0.816,0.851,0.797,0.799,0.812,0.769,0.782,0.791,(3.4105)+(0.00
96)Thr+(0.0047)Orn+(-0.0094)Lys+(0.0729)Phe+(-0.1726)Trp;0.816,0.846,
0.805,0.808,0.813,0.844,0.751,0.804,(3.4202)+(0.0387)Ser+(0.0306)Tyr+
(0.0039)Val+(-0.1923)Met+(-0.1475)Trp;0.816,0.845,0.819,0.827,0.829,0
.785,0.802,0.811,(3.4238)+(0.0023)Gly+(-0.2092)Met+(0.0030)Leu+(0.111
5)Phe+(-0.1445)Trp;0.816,0.837,0.788,0.778,0.763,0.831,0.834,0.801,(2
.3193)+(0.0088)Gln+(-0.1622)His+(-0.0042)Ala+(-0.0022)Val+(0.0818)Phe
;0.816,0.842,0.777,0.762,0.741,0.850,0.842,0.799,(4.5345)+(-0.0096)Ar
g+(-0.0572)Val+(-0.2727)Met+(0.0296)Orn+(0.1885)Ile;0.816,0.851,0.813
,0.820,0.819,0.773,0.812,0.806,(2.5920)+(0.0028)Gln+(0.0057)Orn+(-0.0
080)Lys+(0.0715)Phe+(-0.1712)Trp;0.816,0.842,0.795,0.809,0.805,0.814,
0.726,0.788,(6.5808)+(0.0239)Thr+(0.0091)Pro+(-0.0020)Val+(-0.1971)Me
t+(-0.1387)Trp;0.816,0.841,0.789,0.785,0.813,0.825,0.726,0.787,(4.372
9)+(0.0320)Ser+(-0.0796)Cit+(0.0005)Tyr+(0.0059)Val+(-0.1631)Trp;0.81
6,0.841,0.796,0.796,0.800,0.822,0.770,0.797,(8.2131)+(0.0033)Gly+(-0.
0766)His+(0.0102)Pro+(-0.0552)Met+(-0.0957)Trp;0.816,0.847,0.821,0.82
9,0.812,0.799,0.835,0.819,(2.6409)+(0.0028)Gln+(-0.0068)Ala+(0.0066)O
rn+(0.0765)Phe+(-0.1663)Trp;0.816,0.841,0.801,0.803,0.819,0.793,0.764
,0.795,(4.0367)+(0.0037)Gly+(-0.0925)Cit+(-0.0018)Val+(0.0962)Phe+(-0
.1711)Trp;0.816,0.838,0.790,0.764,0.766,0.858,0.857,0.811,(3.3634)+(0
.0096)Gln+(-0.1372)His+(-0.0078)Ala+(-0.0569)Cit+(0.0651)Ile;0.816,0.
847,0.807,0.800,0.791,0.809,0.856,0.814,(3.9591)+(-0.0088)Ala+(-0.015
4)Arg+(0.0573)Ile+(0.0645)Phe+(-0.1669)Trp;0.816,0.842,0.790,0.774,0.
780,0.822,0.831,0.802,(2.3471)+(-0.0782)Asn+(0.0110)Gln+(-0.1599)His+
(0.0108)Orn+(0.0731)Phe;0.816,0.838,0.710,0.673,0.703,0.807,0.751,0.7
34,(2.6302)+(0.0390)Ser+(-0.1447)His+(0.0006)Pro+(-0.0251)Tyr+(0.0599
)Ile;0.816,0.846,0.826,0.835,0.815,0.798,0.845,0.823,(2.6580)+(-0.000
7)Gly+(0.0033)Gln+(-0.0065)Ala+(0.0799)Phe+(-0.1670)Trp;0.816,0.840,0

.788,0.779,0.744,0.855,0.859,0.809,(5.3432)+(-0.0312)Asn+(-0.0508)Val+(-0.2348)Met+(0.1986)Ile+(-0.0138)Leu;0.816,0.849,0.783,0.797,0.788,0.761,0.753,0.775,(3.5179)+(0.0166)Thr+(-0.0436)Tyr+(-0.0086)Lys+(0.0979)Phe+(-0.1638)Trp;0.816,0.845,0.802,0.791,0.811,0.830,0.790,0.806,(8.2283)+(-0.0160)Asn+(-0.0871)His+(0.0064)Tyr+(0.0363)Orn+(-0.1001)Trp;0.816,0.843,0.806,0.817,0.808,0.842,0.747,0.803,(4.9119)+(0.0399)Ser+(-0.0903)Asn+(-0.0100)Arg+(0.0095)Tyr+(-0.1335)Trp;0.815,0.849,0.815,0.819,0.825,0.778,0.810,0.808,(3.7524)+(0.0078)Pro+(-0.0015)Tyr+(-0.2223)Met+(0.1085)Phe+(-0.1438)Trp;0.815,0.843,0.817,0.815,0.832,0.803,0.803,0.813,(4.8836)+(-0.0896)Cit+(0.0026)Arg+(-0.0049)Lys+(0.0951)Phe+(-0.1678)Trp;0.815,0.838,0.717,0.683,0.717,0.813,0.739,0.738,(2.8790)+(0.0437)Ser+(-0.1395)His+(-0.0172)Arg+(-0.0208)Tyr+(0.0627)Ile;0.815,0.848,0.802,0.793,0.803,0.781,0.842,0.805,(4.4026)+(-0.0564)Asn+(-0.0052)Lys+(0.0428)Ile+(0.0579)Phe+(-0.1665)Trp;0.815,0.843,0.777,0.783,0.766,0.742,0.806,0.774,(2.4310)+(0.0022)Gln+(-0.0409)Tyr+(0.0420)Ile+(0.0662)Phe+(-0.1775)Trp;0.815,0.841,0.796,0.807,0.800,0.829,0.736,0.793,(3.7934)+(0.0358)Ser+(0.0044)Val+(-0.1516)Met+(0.0028)Lys+(-0.1417)Trp;0.815,0.838,0.778,0.759,0.741,0.844,0.857,0.800,(5.7618)+(-0.0981)His+(-0.0078)Ala+(0.0029)Pro+(0.1239)Ile+(-0.0484)Leu;0.815,0.842,0.811,0.812,0.809,0.832,0.799,0.813,(5.1119)+(0.0483)Ser+(-0.0920)Asn+(-0.0073)Gly+(0.0013)Val+(-0.1362)Trp;0.815,0.840,0.805,0.800,0.802,0.827,0.810,0.810,(8.5158)+(-0.0788)His+(-0.0039)Ala+(0.0108)Pro+(0.0125)Tyr+(-0.1028)Trp;0.815,0.840,0.796,0.791,0.782,0.861,0.791,0.806,(3.0535)+(0.0390)Ser+(-0.0058)Gly+(0.0082)Gln+(-0.1307)His+(-0.1217)Met;0.815,0.836,0.748,0.716,0.737,0.804,0.816,0.768,(1.8338)+(0.0077)Gln+(-0.1768)His+(0.0048)Thr+(0.0289)Ile+(0.0500)Phe;0.815,0.847,0.814,0.792,0.830,0.824,0.830,0.819,(6.5016)+(-0.0675)Cit+(0.0198)Tyr+(-0.1403)Met+(0.0685)Ile+(-0.1570)Trp;0.815,0.840,0.789,0.786,0.81

2,0.828,0.723,0.787,(4.4971)+(0.0328)Ser+(-0.0753)Cit+(-0.0050)Arg+(0.0060)Val+(-0.1611)Trp;0.815,0.838,0.806,0.793,0.835,0.828,0.762,0.805,(7.0440)+(-0.1050)Cit+(-0.0797)Met+(0.0522)Orn+(0.0125)Leu+(-0.1537)Trp;0.815,0.834,0.753,0.733,0.752,0.840,0.748,0.768,(2.6375)+(0.0318)Ser+(0.0065)Gln+(-0.1581)His+(0.0072)Val+(-0.0073)Lys;0.815,0.845,0.803,0.795,0.812,0.834,0.784,0.806,(8.2934)+(-0.0081)Asn+(-0.0832)His+(-0.0282)Met+(0.0386)Orn+(-0.0956)Trp;0.815,0.842,0.778,0.767,0.736,0.849,0.845,0.799,(4.3840)+(0.0021)Gly+(0.0033)Pro+(-0.0546)Val+(-0.2901)Met+(0.1873)Ile;0.815,0.838,0.795,0.792,0.823,0.826,0.720,0.790,(6.8138)+(0.0086)Thr+(-0.1113)Cit+(-0.0126)Tyr+(0.0520)Orn+(-0.1584)Trp;0.815,0.838,0.710,0.674,0.702,0.807,0.752,0.734,(2.6543)+(0.0387)Ser+(-0.1451)His+(0.0007)Thr+(-0.0250)Tyr+(0.0605)Ile;0.815,0.834,0.755,0.741,0.734,0.849,0.766,0.773,(2.8766)+(0.0310)Ser+(0.0053)Gln+(-0.1436)His+(-0.0054)Ala+(0.0102)Pro;0.815,0.847,0.820,0.825,0.832,0.776,0.813,0.812,(4.8265)+(-0.0582)Asn+(-0.0107)Arg+(0.0040)Pro+(0.0786)Phe+(-0.1575)Trp;0.815,0.846,0.823,0.832,0.834,0.791,0.800,0.814,(3.5763)+(0.0024)Gly+(-0.0039)Arg+(-0.2001)Met+(0.1146)Phe+(-0.1424)Trp;0.815,0.836,0.780,0.769,0.716,0.867,0.881,0.808,(5.3119)+(-0.1202)Asn+(-0.0074)Ala+(-0.0569)Val+(0.0314)Orn+(0.1764)Ile;0.815,0.843,0.781,0.764,0.785,0.836,0.775,0.790,(3.8456)+(0.0094)Gln+(-0.1557)His+(0.0270)Thr+(-0.2300)Met+(0.0262)Leu;0.815,0.837,0.780,0.768,0.741,0.843,0.849,0.800,(6.1080)+(-0.0931)His+
(-0.0064)Ala+(-0.0176)Tyr+(0.1308)Ile+(-0.0493)Leu;0.815,0.843,0.828,0.835,0.837,0.790,0.821,0.820,(4.2391)+(-0.0181)Asn+(-0.1840)Met+(0.0023)Leu+(0.1078)Phe+(-0.1423)Trp;0.815,0.840,0.838,0.846,0.842,0.839,0.810,0.834,(5.9767)+(-0.0796)Asn+(0.0082)Gln+(-0.0775)Cit+(0.0081)Pro+(-0.1484)Trp;0.815,0.842,0.802,0.793,0.822,0.780,0.799,0.799,(4.5412)+(-0.0916)Cit+(0.0051)Pro+(0.0012)Leu+(0.0845)Phe+(-0.1764)Trp;0.81

5,0.844,0.749,0.722,0.728,0.798,0.829,0.769,(3.7699)+(-0.1230)His+(-0.0036)Lys+(0.1048)Ile+(-0.0546)Leu+(0.0723)Phe;0.815,0.842,0.751,0.740,0.742,0.785,0.771,0.760,(1.8174)+(0.0322)Ser+(-0.0064)Thr+(-0.0196)Tyr+(0.0573)Ile+(-0.1644)Trp;0.815,0.843,0.757,0.743,0.749,0.856,0.736,0.771,(4.1735)+(0.0439)Ser+(-0.1097)His+(-0.0041)Ala+(0.0159)Pro+(-0.1443)Met;0.815,0.841,0.767,0.762,0.748,0.803,0.793,0.776,(2.1976)+(0.0081)Gln+(-0.1614)His+(-0.0455)Tyr+(0.0167)Orn+(0.0918)Phe;0.815,0.846,0.801,0.809,0.822,0.764,0.761,0.789,(2.7262)+(0.0032)Gln+(0.0128)Thr+(-0.0298)Arg+(0.0772)Phe+(-0.1843)Trp;0.815,0.848,0.823,0.830,0.830,0.785,0.814,0.815,(4.7131)+(-0.0738)Asn+(0.0134)Orn+(-0.0045)Leu+(0.0746)Phe+(-0.1508)Trp;0.815,0.844,0.814,0.827,0.817,0.793,0.790,0.807,(2.8098)+(0.0055)Gln+(-0.0937)Cit+(-0.0325)Tyr+(0.1042)Phe+(-0.1700)Trp;0.815,0.845,0.834,0.840,0.828,0.810,0.847,0.831,(4.8121)+(-0.0569)Asn+(-0.0050)Ala+(0.0031)Leu+(0.0855)Phe+(-0.1502)Trp;0.815,0.841,0.747,0.739,0.740,0.779,0.759,0.755,(2.0247)+(0.0284)Ser+(-0.0008)Pro+(-0.0235)Tyr+(0.0567)Ile+(-0.1671)Trp;0.815,0.847,0.828,0.841,0.833,0.780,0.817,0.818,(3.6178)+(-0.0077)Val+(-0.2182)Met+(0.0090)Lys+(0.1201)Phe+(-0.1402)Trp;0.815,0.844,0.804,0.813,0.802,0.836,0.761,0.803,(4.7275)+(0.0379)Ser+(-0.1024)Asn+(0.0054)Tyr+(0.0026)Lys+(-0.1369)Trp;0.815,0.836,0.759,0.733,0.754,0.839,0.782,0.777,(2.8522)+(0.0349)Ser+(-0.0058)Gly+(0.0056)Gln+(-0.1545)His+(0.0182)Orn;0.815,0.841,0.793,0.794,0.783,0.862,0.761,0.800,(3.4206)+(0.0350)Ser+(-0.0738)Asn+(0.0098)Gln+(-0.1329)His+(-0.0181)Arg;0.815,0.838,0.793,0.787,0.819,0.823,0.734,0.791,(6.8657)+(-0.1118)Cit+(0.0064)Pro+(-0.0134)Tyr+(0.0533)Orn+(-0.1565)Trp;0.815,0.844,0.788,0.789,0.789,0.820,0.759,0.789,(4.0252)+(0.0413)Ser+(-0.1031)Asn+(-0.0015)Lys+(0.0158)Leu+(-0.1428)Trp;0.815,0.845,0.802,0.806,0.811,0.754,0.806,0.794,(2.6779)+(-0.0017)Gly+(0.0019)Gln+(0.0051)Thr+(0.0640)Phe+(-0.1816)Trp;0.815,0.850,0.813,0.8

19,0.798,0.796,0.839,0.813,(3.8017)+(-0.0082)Ala+(0.0089)Pro+(-0.0031)Lys+(0.0821)Phe+(-0.1590)Trp;0.815,0.841,0.786,0.775,0.742,0.850,0.861,0.807,(5.4222)+(-0.0354)Asn+(0.0035)Pro+(-0.0551)Val+(-0.2437)Met+(0.1852)Ile;0.815,0.841,0.740,0.718,0.743,0.776,0.764,0.750,(1.8843)+(0.0312)Ser+(-0.0016)Gln+(-0.0054)Orn+(0.0549)Ile+(-0.1752)Trp;0.815,0.840,0.793,0.774,0.804,0.806,0.808,0.798,(5.9788)+(-0.0817)Cit+(0.0002)Arg+(0.0013)Pro+(0.0607)Ile+(-0.1731)Trp;0.815,0.841,0.801,0.791,0.791,0.831,0.825,0.810,(2.2895)+(-0.0636)Asn+(0.0132)Gln+(-0.1610)His+(-0.0182)Arg+(0.0810)Phe;0.815,0.840,0.796,0.800,0.811,0.839,0.725,0.794,(4.9589)+(0.0320)Ser+(-0.0673)Cit+(-0.0041)Arg+(-0.0007)Lys+(-0.1481)Trp;0.815,0.842,0.799,0.781,0.826,0.837,0.763,0.802,(8.3630)+(-0.0704)His+(-0.0799)Cit+(0.0051)Tyr+(0.0577)Orn+(-0.1138)Trp;0.815,0.841,0.814,0.815,0.829,0.789,0.800,0.808,(4.7329)+(-0.0848)Cit+(-0.0015)Arg+(-0.0021)Val+(0.0940)Phe+(-0.1684)Trp;0.815,0.838,0.765,0.746,0.758,0.808,0.801,0.778,(2.4886)+(0.0083)Gln+(-0.1731)His+(0.0113)Thr+(-0.0106)Lys+(0.0787)Phe;0.815,0.838,0.713,0.670,0.720,0.820,0.738,0.737,(2.4861)+(0.0444)Ser+(-0.1468)His+(-0.0187)Arg+(-0.0005)Pro+(0.0585)Ile;0.815,0.848,0.815,0.819,0.824,0.774,0.816,0.808,(4.6288)+(-0.0739)Asn+(0.0026)Pro+(0.0102)Orn+(0.0695)Phe+(-0.1562)Trp;0.815,0.844,0.789,0.789,0.773,0.812,0.806,0.795,(5.6970)+(0.0011)Gly+(-0.0201)Arg+(0.1518)Ile+(-0.0696)Leu+(-0.1367)Trp;0.815,0.843,0.804,0.816,0.804,0.835,0.747,0.801,(4.9608)+(0.0389)Ser+(-0.0938)Asn+(-0.0121)Arg+(0.0057)Lys+(-0.1346)Trp;0.815,0.842,0.794,0.788,0.806,0.834,0.756,0.796,(8.2516)+(0.0044)Gly+(-0.0707)His+(-0.0435)Cit+(0.0098)Pro+(-0.1072)Trp;0.815,0.839,0.794,0.805,0.806,0.806,0.730,0.787,(6.2040)+(0.0222)Thr+(0.0086)Pro+(-0.2094)Met+(0.0044)Lys+(-0.1447)Trp;0.815,0.843,0.782,0.773,0.786,0.747,0.822,0.782,(2.2756)+(0.0019)Gln+(-0.0089)Orn+(0.0423)Ile+(0.0487)Phe+(-0.1912)Trp;0.815,0.838,0.764,0.736,0.774,0.833,

0.764,0.777,(6.7121)+(-0.1202)His+(0.0410)Thr+(-0.0333)Val+(-0.2567)Met+(0.0779)Leu;0.815,0.843,0.837,0.846,0.834,0.810,0.840,0.832,(4.9708)+(-0.0494)Asn+(-0.0046)Ala+(-0.0078)Arg+(0.0908)Phe+(-0.1481)Trp;0.815,0.846,0.799,0.806,0.808,0.754,0.794,0.790,(2.4579)+(0.0018)Gln+(0.0040)Thr+(-0.0031)Leu+(0.0688)Phe+(-0.1790)Trp;0.815,0.834,0.790,0.765,0.780,0.845,0.836,0.806,(3.4363)+(-0.0684)Asn+(0.0121)Gln+(-0.1418)His+(-0.0482)Cit+(0.0481)Ile;0.815,0.846,0.833,0.846,0.826,0.806,0.833,0.828,(2.7050)+(0.0047)Gln+(-0.0059)Ala+(-0.0199)Arg+(0.0886)Phe+(-0.1658)Trp;0.815,0.841,0.754,0.723,0.728,0.833,0.836,0.780,(4.2352)+(-0.1459)His+(0.0136)Thr+(-0.0075)Ala+(0.0433)Ile+(0.0547)Phe;0.815,0.839,0.707,0.656,0.709,0.816,0.760,0.735,(2.0418)+(0.0407)Ser+(-0.1534)His+(-0.0051)Thr+(0.0099)Orn+(0.0530)Ile;0.815,0.846,0.822,0.830,0.812,0.797,0.843,0.820,(2.5584)+(0.0031)Gln+(-0.0069)Ala+(0.0040)Leu+(0.0775)Phe+(-0.1698)Trp;0.815,0.844,0.825,0.835,0.817,0.800,0.833,0.821,(3.6705)+(0.0004)Gly+(-0.0054)Ala+(-0.0042)Val+(0.0900)Phe+(-0.1565)Trp;0.815,0.838,0.801,0.789,0.791,0.831,0.835,0.812,(2.3119)+(-0.0827)Asn+(0.0128)Gln+(-0.1525)His+(-0.0456)Cit+(0.0844)Phe;0.815,0.845,0.800,0.787,0.813,0.829,0.784,0.803,(8.1592)+(-0.0900)His+(0.0051)Val+(-0.0389)Met+(0.0351)Orn+(-0.1017)Trp;0.815,0.837,0.786,0.763,0.772,0.841,0.837,0.803,(3.5881)+(-0.0576)Asn+(0.0108)Gln+(-0.1480)His+(-0.0043)Lys+(0.0461)Ile;0.815,0.836,0.789,0.774,0.793,0.826,0.793,0.797,(7.9361)+(0.0040)Gly+(-0.0980)His+(-0.0021)Ala+(0.0279)Leu+(-0.1089)Trp;0.815,0.833,0.778,0.765,0.760,0.849,0.797,0.793,(3.1617)+(0.0359)Ser+(-0.0059)Gly+(0.0067)Gln+(-0.1448)His+(-0.0022)Ala;0.815,0.839,0.724,0.706,0.708,0.771,0.770,0.739,(4.1135)+(-0.1529)His+(0.0200)Thr+(-0.0630)Tyr+(0.0370)Ile+(0.0855)Phe;0.815,0.844,0.765,0.742,0.755,0.848,0.785,0.782,(-0.2751)+(0.0464)Ser+(-0.0091)Ala+(-0.0834)Cit+(-0.2688)Met+(0.0886)Ile;0.815,0.841,0.710,0.670,0.705,0.813,0.748,0.734,(2.

6674)+(0.0372)Ser+(-0.1472)His+(-0.0287)Tyr+(0.0147)Orn+(0.0572)Ile;0
.815,0.842,0.808,0.792,0.818,0.820,0.820,0.813,(6.6552)+(-0.0659)Cit+
(-0.1108)Met+(0.0004)Lys+(0.0688)Ile+(-0.1523)Trp;0.815,0.841,0.781,0
.786,0.762,0.834,0.769,0.788,(3.4475)+(0.0283)Ser+(0.0000)Gln+(-0.007
1)Ala+(0.0112)Pro+(-0.1448)Trp;0.815,0.842,0.785,0.769,0.746,0.850,0.
861,0.806,(4.5005)+(0.0028)Pro+(0.0157)Tyr+(-0.0562)Val+(-0.3082)Met+
(0.1901)Ile;0.815,0.842,0.807,0.799,0.817,0.789,0.822,0.807,(4.6050)+
(-0.0803)Cit+(-0.0166)Val+(0.0304)Leu+(0.0876)Phe+(-0.1721)Trp;0.815,
0.840,0.742,0.730,0.738,0.779,0.757,0.751,(2.2881)+(0.0305)Ser+(-0.00
13)Gln+(-0.0230)Tyr+(0.0568)Ile+(-0.1651)Trp;0.815,0.840,0.798,0.806,
0.813,0.816,0.733,0.792,(6.3451)+(0.0234)Thr+(0.0079)Pro+(0.0103)Tyr+
(-0.2112)Met+(-0.1442)Trp;0.815,0.850,0.815,0.822,0.820,0.773,0.816,0
.808,(2.5400)+(0.0031)Gln+(-0.0076)Lys+(0.0011)Leu+(0.0737)Phe+(-0.17
30)Trp;0.815,0.842,0.802,0.814,0.804,0.838,0.743,0.799,(4.9178)+(0.03
97)Ser+(-0.0865)Asn+(-0.0094)Arg+(0.0017)Val+(-0.1328)Trp;0.815,0.842
,0.804,0.810,0.819,0.842,0.732,0.801,(4.2491)+(0.0283)Ser+(0.0029)Gln
+(-0.0700)Cit+(-0.0076)Arg+(-0.1536)Trp;0.815,0.835,0.746,0.716,0.732
,0.805,0.808,0.765,(1.5922)+(0.0023)Gly+(0.0076)Gln+(-0.1750)His+(0.0
303)Ile+(0.0523)Phe;0.815,0.840,0.813,0.808,0.813,0.837,0.806,0.816,(
9.0468)+(-0.0610)His+(-0.0041)Ala+(-0.0404)Cit+(0.0133)Pro+(-0.1044)T
rp;0.815,0.840,0.707,0.656,0.709,0.818,0.756,0.735,(2.1779)+(0.0384)S
er+(-0.1564)His+(-0.0022)Pro+(0.0087)Orn+(0.0551)Ile;0.815,0.845,0.75
4,0.744,0.756,0.796,0.746,0.760,(2.3543)+(0.0348)Ser+(-0.0238)Arg+(-0
.0141)Tyr+(0.0604)Ile+(-0.1640)Trp;0.815,0.844,0.780,0.782,0.774,0.85
8,0.731,0.786,(3.3986)+(0.0281)Ser+(0.0069)Gln+(-0.1328)His+(0.0153)T
hr+(-0.1721)Met;0.815,0.849,0.803,0.812,0.806,0.755,0.805,0.794,(2.42
72)+(0.0021)Gln+(0.0018)Pro+(-0.0035)Leu+(0.0686)Phe+(-0.1768)Trp;0.8
14,0.838,0.784,0.771,0.759,0.832,0.837,0.800,(2.3191)+(0.0086)Gln+(-0

.1624)His+(-0.0057)Ala+(0.0043)Pro+(0.0748)Phe;0.814,0.836,0.775,0.775,0.753,0.802,0.803,0.783,(2.2169)+(0.0089)Gln+(-0.1591)His+(-0.0411)Tyr+(-0.0022)Val+(0.0997)Phe;0.814,0.844,0.826,0.827,0.828,0.817,0.826,0.825,(4.9318)+(-0.0055)Ala+(-0.0869)Cit+(0.0019)Arg+(0.1036)Phe+(-0.1617)Trp;0.814,0.840,0.791,0.775,0.799,0.806,0.805,0.796,(6.1558)+(-0.0794)Cit+(0.0021)Pro+(-0.0094)Tyr+(0.0611)Ile+(-0.1687)Trp;0.814,0.838,0.825,0.833,0.838,0.852,0.758,0.820,(8.6165)+(-0.0671)Asn+(0.0243)Thr+(-0.0028)Ala+(-0.0671)Cit+(-0.1410)Trp;0.814,0.849,0.819,0.827,0.824,0.773,0.824,0.812,(2.6657)+(-0.0010)Gly+(0.0032)Gln+(-0.0073)Lys+(0.0735)Phe+(-0.1721)Trp;0.814,0.839,0.792,0.786,0.796,0.820,0.776,0.794,(7.9050)+(0.0030)Gly+(-0.0875)His+(0.0075)Pro+(0.0100)Tyr+(-0.1031)Trp;0.814,0.838,0.791,0.771,0.800,0.810,0.810,0.797,(8.1381)+(-0.0015)Asn+(-0.0940)His+(0.0056)Pro+(0.0209)Leu+(-0.1134)Trp;0.814,0.842,0.819,0.826,0.829,0.779,0.806,0.810,(3.5878)+(-0.2169)Met+(0.0099)Orn+(0.0041)Lys+(0.1037)Phe+(-0.1452)Trp;0.814,0.843,0.802,0.805,0.816,0.840,0.735,0.799,(4.1709)+(0.0280)Ser+(0.0023)Gln+(-0.0760)Cit+(0.0021)Tyr+(-0.1566)Trp;0.814,0.844,0.834,0.841,0.839,0.802,0.827,0.827,(4.1313)+(-0.0024)Ala+(-0.0028)Arg+(-0.1771)Met+(0.1133)Phe+(-0.1401)Trp;0.814,0.837,0.780,0.764,0.789,0.810,0.780,0.786,(7.5135)+(0.0038)Gly+(-0.1045)His+(0.0057)Lys+(0.0233)Leu+(-0.1141)Trp;0.814,0.847,0.795,0.800,0.803,0.751,0.797,0.788,(2.4388)+(0.0017)Gln+(0.0035)Thr+(0.0009)Pro+(0.0651)Phe+(-0.1815)Trp;0.814,0.837,0.779,0.769,0.755,0.830,0.820,0.794,(2.0806)+(0.0021)Gly+(0.0084)Gln+(-0.1651)His+(-0.0045)Ala+(0.0807)Phe;0.814,0.848,0.812,0.825,0.822,0.783,0.781,0.803,(4.0176)+(-0.0205)Arg+(-0.0089)Val+(0.0201)Orn+(0.0840)Phe+(-0.1553)Trp;0.814,0.842,0.746,0.738,0.739,0.779,0.760,0.754,(2.0361)+(0.0287)Ser+(-0.0235)Tyr+(-0.0024)Orn+(0.0566)Ile+(-0.1673)Trp;0.814,0.839,0.808,0.804,0.802,0.814,0.827,0.812,(3.7661)+(0.0055)Gln+(0.0023)Pro+(-0.2090)

Met+(0.0627)Ile+(-0.1493)Trp;0.814,0.838,0.741,0.719,0.708,0.815,0.816,0.764,(5.4171)+(-0.0999)His+(-0.0278)Tyr+(-0.0346)Val+(0.0305)Orn+(0.1264)Ile;0.814,0.838,0.751,
0.732,0.750,0.839,0.738,0.765,(3.1058)+(0.0287)Ser+(0.0054)Gln+(-0.1493)His+(0.0225)Orn+(-0.0066)Lys;0.814,0.837,0.808,0.801,0.837,0.834,0.749,0.805,(7.2641)+(-0.1044)Cit+(0.0017)Arg+(-0.0691)Met+(0.0560)Orn+(-0.1431)Trp;0.814,0.842,0.796,0.795,0.784,0.866,0.770,0.804,(3.3066)+(0.0347)Ser+(-0.0619)Asn+(0.0087)Gln+(-0.1246)His+(-0.0834)Met;0.814,0.840,0.794,0.789,0.745,0.863,0.858,0.814,(3.2540)+(0.0047)Gln+(-0.0092)Arg+(-0.0538)Val+(-0.2944)Met+(0.1878)Ile;0.814,0.838,0.754,0.750,0.736,0.787,0.777,0.763,(2.3055)+(0.0072)Gln+(-0.1665)His+(0.0142)Thr+(-0.0524)Tyr+(0.1010)Phe;0.814,0.846,0.790,0.810,0.781,0.744,0.786,0.780,(2.4452)+(0.0027)Gln+(0.0040)Pro+(-0.0412)Tyr+(0.0861)Phe+(-0.1673)Trp;0.814,0.841,0.771,0.765,0.707,0.879,0.844,0.799,(1.3812)+(0.0384)Ser+(-0.1253)Asn+(-0.0101)Ala+(0.1682)Ile+(-0.0782)Leu;0.814,0.841,0.781,0.785,0.762,0.833,0.770,0.787,(3.4029)+(0.0284)Ser+(-0.0071)Ala+(0.0110)Pro+(0.0007)Val+(-0.1457)Trp;0.814,0.840,0.792,0.803,0.803,0.812,0.724,0.785,(6.1450)+(0.0213)Thr+(0.0076)Pro+(-0.1995)Met+(0.0128)Orn+(-0.1413)Trp;0.814,0.843,0.760,0.753,0.756,0.796,0.764,0.767,(2.9133)+(0.0271)Ser+(0.0045)Pro+(-0.0239)Val+(0.0451)Leu+(-0.1606)Trp;0.814,0.842,0.810,0.810,0.819,0.835,0.775,0.810,(4.2712)+(0.0352)Ser+(-0.0057)Gly+(0.0026)Gln+(-0.0693)Cit+(-0.1554)Trp;0.814,0.846,0.796,0.812,0.785,0.782,0.788,0.792,(3.4132)+(0.0147)Thr+(-0.0058)Ala+(-0.0343)Tyr+(0.0965)Phe+(-0.1625)Trp;0.814,0.841,0.782,0.796,0.783,0.741,0.772,0.773,(3.6725)+(-0.0030)Gly+(0.0150)Thr+(-0.0479)Tyr+(0.0898)Phe+(-0.1682)Trp;0.814,0.837,0.765,0.744,0.743,0.827,0.824,0.784,(3.3511)+(0.0078)Gln+(-0.1382)His+(-0.0054)Lys+(0.0962)Ile+(-0.0356)Leu;
0.814,0.847,0.823,0.831,0.834,0.790,0.805,0.815,(3.4166)+(0.0024)Gly+

(0.0062)Tyr+(-0.2165)Met+(0.1127)Phe+(-0.1439)Trp;0.814,0.841,0.786,0.772,0.745,0.854,0.859,0.808,(4.5273)+(0.0153)Tyr+(-0.0517)Val+(-0.2955)Met+(0.2039)Ile+(-0.0152)Leu;0.814,0.835,0.784,0.769,0.793,0.817,0.782,0.790,(7.8686)+(-0.0053)Asn+(0.0041)Gly+(-0.0993)His+(0.0258)Leu+(-0.1099)Trp;0.814,0.841,0.796,0.807,0.803,0.831,0.729,0.792,(4.0380)+(0.0381)Ser+(-0.0090)Arg+(0.0052)Val+(-0.1335)Met+(-0.1378)Trp;0.814,0.840,0.748,0.731,0.747,0.782,0.771,0.758,(1.5776)+(0.0289)Ser+(-0.0023)Pro+(-0.0062)Orn+(0.0568)Ile+(-0.1773)Trp;0.814,0.843,0.794,0.782,0.808,0.823,0.776,0.797,(8.1877)+(-0.0932)His+(-0.0054)Arg+(0.0044)Val+(0.0357)Orn+(-0.1039)Trp;0.814,0.836,0.783,0.770,0.762,0.833,0.828,0.798,(3.8224)+(-0.0572)Asn+(0.0105)Gln+(-0.1429)His+(-0.0230)Tyr+(0.0488)Ile;0.814,0.836,0.714,0.676,0.714,0.816,0.743,0.737,(2.7887)+(0.0407)Ser+(-0.1353)His+(-0.0395)Cit+(-0.0232)Tyr+(0.0624)Ile;0.814,0.839,0.782,0.767,0.761,0.834,0.826,0.797,(2.2836)+(0.0082)Gln+(-0.1639)His+(-0.0049)Ala+(0.0143)Orn+(0.0733)Phe;0.814,0.839,0.804,0.803,0.813,0.835,0.765,0.804,(5.0651)+(0.0391)Ser+(-0.0056)Gly+(-0.0635)Cit+(-0.0022)Lys+(-0.1473)Trp;0.814,0.835,0.797,0.792,0.828,0.827,0.722,0.792,(6.7302)+(0.0018)Gly+(-0.1112)Cit+(-0.0040)Arg+(0.0552)Orn+(-0.1567)Trp;0.814,0.838,0.778,0.766,0.770,0.851,0.772,0.790,(2.9450)+(0.0352)Ser+(-0.0866)Asn+(0.0083)Gln+(-0.1422)His+(0.0044)Val;0.814,0.837,0.773,0.771,0.750,0.803,0.804,0.782,(2.1443)+(0.0090)Gln+(-0.1624)His+(-0.0427)Tyr+(0.0017)Leu+(0.0947)Phe;0.814,0.846,0.837,0.843,0.841,0.806,0.832,0.831,(4.0228)+(-0.0026)Ala+(0.0075)Tyr+(-0.1920)Met+(0.1114)Phe+(-0.1417)Trp;0.814,0.839,0.791,0.791,0.794,0.817,0.766,0.792,(8.1649)+(0.0029)Gly+(-0.0830)His+(-0.0036)Arg+(0.0087)Pro+(-0.0993)Trp;0.814,0.834,0.730,0.694,0.721,0.838,0.766,0.755,(3.1575)+(0.0404)Ser+(-0.1440)His+(-0.0067)Ala+(0.0088)Pro+(0.0207)Leu;0.814,0.846,0.810,0.818,0.815,0.759,0.814,0.802,(2.5673)+(-0.0011)Gly+(0.0025)Gln+(-0

.0028)Leu+(0.0687)Phe+(-0.1761)Trp;0.814,0.841,0.781,0.786,0.765,0.829,0.768,0.787,(3.2802)+(0.0270)Ser+(-0.0075)Ala+(0.0102)Pro+(0.0125)Orn+(-0.1467)Trp;0.814,0.842,0.791,0.777,0.749,0.857,0.869,0.813,(5.1685)+(-0.0325)Asn+(0.0153)Tyr+(-0.0564)Val+(-0.2640)Met+(0.1916)Ile;0.814,0.839,0.804,0.802,0.799,0.825,0.803,0.807,(8.6760)+(-0.0752)His+(-0.0034)Ala+(-0.0016)Arg+(0.0117)Pro+(-0.0983)Trp;0.814,0.845,0.803,0.811,0.802,0.839,0.757,0.802,(4.7172)+(0.0385)Ser+(-0.0982)Asn+(0.0060)Tyr+(0.0008)Val+(-0.1360)Trp;0.814,0.837,0.798,0.788,0.805,0.812,0.797,0.800,(8.3679)+(-0.0042)Asn+(-0.0860)His+(0.0069)Pro+(0.0055)Val+(-0.1071)Trp;0.814,0.837,0.780,0.762,0.742,0.846,0.856,0.802,(5.7105)+(-0.1002)His+(-0.0073)Ala+(0.0019)Lys+(0.1275)Ile+(-0.0498)Leu;0.814,0.832,0.759,0.742,0.747,0.845,0.766,0.775,(2.6091)+(0.0305)Ser+(0.0061)Gln+(-0.1562)His+(-0.0036)Ala+(0.0076)Val;0.814,0.845,0.820,0.830,0.830,0.782,0.799,0.810,(4.5223)+(-0.0615)Asn+(0.0022)Gly+(-0.0101)Arg+(0.0844)Phe+(-0.1552)Trp;0.814,0.844,0.831,0.837,0.840,0.793,0.822,0.823,(4.2566)+(-0.0183)Asn+(0.0034)Tyr+(-0.1871)Met+(0.1091)Phe+(-0.1415)Trp;0.814,0.843,0.789,0.791,0.793,0.823,0.748,0.789,(4.1964)+(0.0420)Ser+(-0.0958)Asn+(-0.0095)Arg+(0.0152)Leu+(-0.1417)Trp;0.814,0.841,0.795,0.796,0.808,0.774,0.778,0.789,(4.6728)+(-0.0873)Cit+(0.0072)Pro+(-0.0314)Tyr+(0.1006)Phe+(-0.1646)Trp;0.814,0.839,0.797,0.780,0.806,0.814,0.813,0.803,(6.5311)+(-0.0792)Cit+(-0.0030)Tyr+(-0.0060)Lys+(0.0669)Ile+(-0.1638)Trp;0.814,0.838,0.767,0.745,0.736,0.853,0.830,0.791,(5.7685)+(-0.1359)Asn+(-0.0829)Cit+(-0.0576)Val+(0.0556)Orn+(0.1635)Ile;0.814,0.843,0.787,0.786,0.757,0.812,0.836,0.798,(-1.7114)+(0.0048)Gln+(-0.3695)Met+(0.1776)Ile+(-0.0976)Leu+(0.1090)Phe;0.814,0.840,0.741,0.720,0.744,0.780,0.762,0.752,(1.8863)+(0.0308)Ser+(-0.0017)Gln+(-0.0023)Pro+(0.0556)Ile+(-0.1744)Trp;0.814,0.844,0.791,0.795,0.816,0.759,0.750,0.780,(3.7161)+(0.0145)Thr+(-0.0272)Arg+(0.0019)Pro+(0.0

767)Phe+(-0.1807)Trp;0.814,0.839,0.806,0.805,0.828,0.831,0.743,0.802,(5.6973)+(0.0037)Gln+(-0.1125)Cit+(-0.0109)Tyr+(0.0513)Orn+(-0.1598)Trp;0.814,0.843,0.794,0.781,0.805,0.824,0.783,0.798,(7.7134)+(-0.0962)His+(0.0011)Tyr+(0.0327)Orn+(0.0071)Lys+(-0.1055)Trp;0.814,0.844,0.800,0.814,0.780,0.776,0.818,0.797,(3.7408)+(-0.0073)Ala+(0.0097)Pro+(-0.0279)Tyr+(0.0914)Phe+(-0.1536)Trp;0.814,0.843,0.816,0.821,0.811,0.795,0.828,0.814,(3.6210)+(-0.0000)Gly+(-0.0064)Ala+(0.0105)Orn+(0.0767)Phe+(-0.1601)Trp;0.814,0.838,0.805,0.795,0.784,0.827,0.860,0.816,(5.9308)+(-0.0389)Asn+(-0.0085)Ala+(0.0058)Pro+(0.0612)Ile+(-0.1478)Trp;0.814,0.834,0.759,0.729,0.749,0.824,0.811,0.778,(3.4810)+(0.0082)Gln+(-0.1586)His+(0.0078)Thr+(-0.0101)Lys+(0.0482)Ile;0.814,0.838,0.782,0.771,0.739,0.849,0.851,0.803,(4.7113)+(0.0028)Pro+(-0.0501)Val+(-0.2762)Met+(0.1982)Ile+(-0.0156)Leu;0.814,0.838,0.815,0.823,0.837,0.838,0.734,0.808,(8.2544)+(-0.0732)Asn+(0.0016)Gly+(0.0219)Thr+(-0.0699)Cit+(-0.1454)Trp;0.814,0.835,0.753,0.731,0.756,0.840,0.744,0.768,(2.1318)+(0.0344)Ser+(0.0078)Gln+(-0.1642)His+(-0.0227)Arg+(0.0183)Leu;0.814,0.843,0.787,0.789,0.788,0.818,0.759,0.788,(4.0261)+(0.0409)Ser+(-0.1054)Asn+(-0.0004)Tyr+(0.0151)Leu+(-0.1435)Trp;0.813,0.840,0.812,0.803,0.842,0.837,0.759,0.810,(7.2331)+(-0.1032)Cit+(0.0102)Tyr+(-0.0822)Met+(0.0549)Orn+(-0.1454)Trp;0.813,0.842,0.822,0.819,0.824,0.812,0.831,0.822,(4.9089)+(-0.0063)Ala+(-0.0873)Cit+(0.0104)Leu+(0.0967)Phe+(-0.1678)Trp;0.813,0.838,0.755,0.734,0.756,0.841,0.744,0.769,(4.0641)+(0.0498)Ser+(-0.0043)Gly+(-0.1124)His+(0.0126)Pro+(-0.1575)Met;0.813,0.844,0.795,0.801,0.821,0.763,0.748,0.783,(3.7825)+(0.0155)Thr+(-0.0270)Arg+(-0.0032)Leu+(0.0813)Phe+(-0.1780)Trp;0.813,0.840,0.754,0.733,0.733,0.803,0.819,0.772,(4.1023)+(-0.1160)His+(-0.0164)Arg+(0.1138)Ile+(-0.0623)Leu+(0.0771)Phe;0.813,0.840,0.798,0.794,0.769,0.819,0.858,0.810,(3.9265)+(0.0029)Gln+(-0.0099)Ala+(0.0047)Pro+(0.0628)Ile+(-0.1632

)Trp;0.813,0.844,0.834,0.842,0.829,0.806,0.846,0.831,(4.7841)+(-0.062
3)Asn+(-0.0049)Ala+(0.0028)Lys+(0.0859)Phe+(-0.1498)Trp;0.813,0.848,0
.806,0.807,0.805,0.780,0.826,0.804,(4.0284)+(-0.0157)Arg+(-0.0260)Val
+(0.0416)Leu+(0.0861)Phe+(-0.1666)Trp;0.813,0.844,0.775,0.764,0.772,0
.851,0.754,0.786,(2.3095)+(0.0355)Ser+(0.0078)Gln+(-0.1453)His+(0.009
3)Val+(-0.1509)Met;0.813,0.843,0.791,0.794,0.781,0.762,0.822,0.790,(4
.3511)+(-0.0548)Asn+(-0.0320)Tyr+(0.0420)Ile+(0.0706)Phe+(-0.1604)Trp
;0.813,0.840,0.770,0.734,0.775,0.809,0.825,0.786,(3.6368)+(0.0427)Asn
+(-0.1305)His+(-0.2671)Met+(0.0525)Ile+(0.0976)Phe;0.813,0.840,0.798,
0.805,0.811,0.789,0.759,0.791,(4.1821)+(0.0034)Gly+(-0.0898)Cit+(-0.0
232)Tyr+(0.1058)Phe+(-0.1648)Trp;0.813,0.844,0.786,0.771,0.791,0.766,
0.832,0.790,(3.4884)+(-0.0006)Orn+(-0.0111)Lys+(0.0476)Ile+(0.0552)Ph
e+(-0.1762)Trp;0.813,0.844,0.823,0.829,0.834,0.793,0.802,0.815,(3.968
9)+(-0.0065)Arg+(-0.1960)Met+(0.0143)Orn+(0.1038)Phe+(-0.1412)Trp;0.8
13,0.843,0.792,0.786,0.805,0.829,0.758,0.794,(8.0217)+(0.0023)Gly+(-0
.0900)His+(-0.0071)Arg+(0.0385)Orn+(-0.0968)Trp;0.813,0.842,0.814,0.8
20,0.812,0.839,0.786,0.814,(5.4136)+(0.0490)Ser+(-0.0835)Asn+(-0.0072
)Gly+(-0.0082)Arg+(-0.1314)Trp;0.813,0.840,0.824,0.840,0.828,0.832,0.
768,0.817,(5.4626)+(-0.0035)Gly+(0.0051)Gln+(0.0242)Thr+(-0.1927)Met+
(-0.1474)Trp;0.813,0.843,0.774,0.745,0.767,0.835,0.821,0.792,(5.8524)
+(-0.0956)His+(-0.1580)Met+(0.0249)Orn+(0.1272)Ile+(-0.0506)Leu;0.813
,0.838,0.749,0.743,0.745,0.769,0.757,0.753,(5.2695)+(-0.0658)Asn+(-0.
1390)His+(0.0291)Thr+(-0.0587)Tyr+(0.1117)Phe;0.813,0.843,0.826,0.836
,0.834,0.779,0.819,0.817,(4.0537)+(-0.0245)Asn+(-0.1961)Met+(0.0068)L
ys+(0.1064)Phe+(-0.1456)Trp;0.813,0.839,0.786,0.785,0.759,0.820,0.819
,0.796,(2.2989)+(0.0090)Gln+(-0.1575)His+(-0.0028)Ala+(-0.0365)Tyr+(0
.0977)Phe;0.813,0.835,0.745,0.734,0.666,0.854,0.859,0.778,(1.1594)+(0
.0290)Ser+(-0.0103)Ala+(-0.0485)Val+(-0.0182)Lys+(0.1783)Ile;0.813,0.

844,0.784,0.769,0.789,0.765,0.827,0.787,(3.4033)+(0.0004)Gly+(-0.0112)Lys+(0.0476)Ile+(0.0553)Phe+(-0.1763)Trp;0.813,0.836,0.783,0.762,0.796,0.820,0.784,0.790,(7.5806)+(0.0042)Gly+(-0.1046)His+(0.0127)Tyr+(0.0248)Leu+(-0.1150)Trp;0.813,0.842,0.781,0.771,0.786,0.746,0.821,0.781,(2.4352)+(-0.0007)Gly+(0.0017)Gln+(0.0395)Ile+(0.0437)Phe+(-0.1891)Trp;0.813,0.837,0.802,0.795,0.833,0.830,0.738,0.799,(7.2485)+(-0.1121)Cit+(-0.0041)Tyr+(0.0587)Orn+(-0.0041)Lys+(-0.1499)Trp;0.813,0.837,0.769,0.768,0.748,0.801,0.797,0.778,(2.0613)+(0.0011)Gly+(0.0087)Gln+(-0.1622)His+(-0.0416)Tyr+(0.0972)Phe;0.813,0.838,0.705,0.651,0.721,0.824,0.729,0.731,(2.2828)+(0.0390)Ser+(-0.1464)His+(-0.0580)Cit+(0.0253)Orn+(0.0498)Ile;0.813,0.837,0.790,0.788,0.773,0.862,0.778,0.800,(3.4603)+(0.0338)Ser+(-0.0853)As

n+(0.0083)Gln+(-0.1303)His+(-0.0012)Ala;0.813,0.833,0.710,0.663,0.715,0.818,0.748,0.736,(2.3558)+(0.0414)Ser+(-0.1442)His+(-0.0405)Cit+(-0.0015)Pro+(0.0592)Ile;0.813,0.843,0.801,0.794,0.801,0.775,0.837,0.802,(4.3365)+(-0.0650)Asn+(-0.0010)Pro+(0.0406)Ile+(0.0551)Phe+(-0.1686)Trp;0.813,0.839,0.820,0.840,0.821,0.842,0.752,0.814,(5.2419)+(0.0047)Gln+(0.0221)Thr+(-0.0018)Ala+(-0.1782)Met+(-0.1442)Trp;0.813,0.846,0.817,0.825,0.825,0.776,0.811,0.809,(4.3789)+(-0.0743)Asn+(0.0019)Gly+(0.0012)Lys+(0.0790)Phe+(-0.1562)Trp;0.813,0.840,0.802,0.800,0.813,0.831,0.765,0.802,(4.8912)+(0.0384)Ser+(-0.0054)Gly+(-0.0652)Cit+(0.0013)Tyr+(-0.1511)Trp;0.813,0.845,0.807,0.828,0.800,0.761,0.800,0.797,(2.5008)+(0.0036)Gln+(-0.0352)Tyr+(-0.0054)Lys+(0.0919)Phe+(-0.1627)Trp;0.813,0.841,0.804,0.824,0.798,0.760,0.795,0.794,(3.6979)+(-0.0002)Gly+(-0.0319)Tyr+(-0.0061)Val+(0.0998)Phe+(-0.1525)Trp;0.813,0.836,0.780,0.756,0.769,0.834,0.830,0.797,(3.4789)+(-0.0654)Asn+(0.0103)Gln+(-0.1513)His+(0.0094)Orn+(0.0406)Ile;0.813,0.844,0.800,0.792,0.812,0.829,0.777,0.802,(8.4006)+(-0.0107)Asn+(-0.0850)His+(-0.0053)Arg+(0.0392)O

rn+(-0.0973)Trp;0.813,0.842,0.807,0.806,0.801,0.808,0.824,0.810,(4.4684)+(-0.1078)Asn+(0.0050)Gln+(0.0117)Thr+(0.0455)Ile+(-0.1635)Trp;0.813,0.833,0.768,0.750,0.756,0.839,0.787,0.783,(2.9479)+(0.0361)Ser+(-0.0059)Gly+(0.0066)Gln+(-0.1505)His+(-0.0002)Thr;0.813,0.846,0.805,0.811,0.810,0.752,0.814,0.797,(2.5521)+(-0.0011)Gly+(0.0023)Gln+(0.0015)Pro+(0.0646)Phe+(-0.1790)Trp;0.813,0.838,0.791,0.771,0.801,0.810,0.811,0.798,(8.0701)+(-0.0956)His+(0.0052)Pro+(0.0043)Tyr+(0.0208)Leu+(-0.1149)Trp;0.813,0.836,0.746,0.713,0.717,0.811,0.844,0.772,(4.0197)+(-0.1061)His+(-0.0386)Cit+(-0.0369)Val+(0.1198)Ile+(0.0670)Phe;0.813,0.843,0.830,0.838,0.836,0.840,0.791,0.826,(5.3772)+(0.0071)Gln+(-0.0703)Cit+(0.0105)Pro+(-0.1255)Met+(-0.1439)Trp;0.813,0.842,0.797,0.796,0.814,0.840,0.730,0.795,(4.8283)+(0.0318)Ser+(-0.0719)Cit+(0.0068)Tyr+(-0.0025)Lys+(-0.1512)Trp;0.813,0.840,0.828,0.834,0.824,0.848,0.809,0.829,(5.7410)+(0.0056)Gln+(-0.0069)Ala+(-0.0809)Cit+(0.0138)Pro+(-0.1501)Trp;0.813,0.843,0.796,0.800,0.820,0.760,0.760,0.785,(3.9275)+(-0.0010)Gly+(0.0160)Thr+(-0.0268)Arg+(0.0773)Phe+(-0.1806)Trp;0.813,0.843,0.794,0.794,0.776,0.815,0.814,0.800,(5.8939)+(-0.0187)Arg+(-0.0018)Pro+(0.1534)Ile+(-0.0694)Leu+(-0.1363)Trp;0.813,0.844,0.792,0.795,0.806,0.750,0.785,0.784,(3.0481)+(0.0053)Thr+(0.0016)Pro+(-0.0034)Leu+(0.0690)Phe+(-0.1769)Trp;0.813,0.837,0.778,0.764,0.754,0.830,0.825,0.793,(2.3318)+(0.0078)Gln+(-0.1675)His+(0.0085)Thr+(-0.0049)Ala+(0.0777)Phe;0.813,0.840,0.795,0.792,0.817,0.785,0.765,0.789,(3.9367)+(0.0038)Gly+(-0.0955)Cit+(0.0046)Leu+(0.0893)Phe+(-0.1775)Trp;0.813,0.834,0.778,0.764,0.764,0.813,0.817,0.790,(2.3379)+(0.0092)Gln+(-0.1660)His+(-0.0030)Val+(-0.0058)Lys+(0.0809)Phe;0.813,0.834,0.776,0.759,0.764,0.814,0.818,0.789,(2.2643)+(0.0094)Gln+(-0.1690)His+(0.0002)Pro+(-0.0070)Lys+(0.0761)Phe;0.813,0.846,0.765,0.764,0.743,0.816,0.775,0.774,(-2.8396)+(0.0466)Ser+(-0.0453)Val+(-0.4121)Met+(0.0679)Leu+(0.1271)Phe;0.

813,0.842,0.786,0.779,0.742,0.847,0.856,0.806,(4.5283)+(-0.0075)Arg+(-0.0575)Val+(-0.2955)Met+(0.0098)Lys+(0.1924)Ile;0.813,0.840,0.794,0.807,0.813,0.812,0.709,0.785,(6.9354)+(0.0276)Thr+(-0.0140)Arg+(0.0087)Pro+(-0.1898)Met+(-0.1403)Trp;0.813,0.845,0.792,0.775,0.756,0.860,0.865,0.814,(4.9876)+(-0.0388)Cit+(0.0149)Tyr+(-0.0540)Val+(-0.2782)Met+(0.1896)Ile;0.813,0.841,0.800,0.802,0.819,0.788,0.762,0.793,(4.0628)+(0.0038)Gly+(-0.0924)Cit+(-0.0024)Arg+(0.0942)Phe+(-0.1731)Trp;0.813,0.843,0.787,0.780,0.780,0.863,0.763,0.797,(2.6596)+(0.0340)Ser+(0.0078)Gln+(-0.1366)His+(0.0232)Tyr+(-0.1656)Met;0.813,0.835,0.713,0.669,0.720,0.822,0.738,0.737,(2.5159)+(0.0442)Ser+(-0.1416)His+(-0.0287)Cit+(-0.0137)Arg+(0.0585)Ile;0.813,0.832,0.710,0.662,0.715,0.817,0.748,0.736,(2.2998)+(0.0418)Ser+(-0.1438)His+(-0.0010)Thr+(-0.0401)Cit+(0.0573)Ile;0.813,0.843,0.797,0.800,0.812,0.751,0.791,0.789,(3.3178)+(-0.0014)Gly+(0.0072)Thr+(-0.0030)Leu+(0.0686)Phe+(-0.1770)Trp;0.813,0.843,0.801,0.794,0.808,0.832,0.780,0.803,(8.3689)+(-0.0854)His+(-0.0013)Ala+(-0.0060)Arg+(0.0401)Orn+(-0.0963)Trp;0.813,0.837,0.787,0.772,0.764,0.833,0.840,0.802,(2.2491)+(0.0089)Gln+(-0.1655)His+(-0.0048)Ala+(0.0041)Leu+(0.0737)Phe;0.813,0.835,0.775,0.757,0.764,0.816,0.819,0.789,(2.2564)+(0.0095)Gln+(-0.1700)His+(-0.0077)Lys+(0.0033)Leu+(0.0730)Phe;0.813,0.839,0.774,0.760,0.706,0.850,0.896,0.803,(2.0650)+(-0.0126)Ala+(-0.0765)Cit+(-0.0523)Val+(0.1759)Ile+(0.0509)Phe;0.813,0.836,0.790,0.770,0.779,0.841,0.825,0.804,(3.4723)+(-0.0510)Asn+(0.0123)Gln+(-0.1509)His+(-0.0169)Arg+(0.0446)Ile;0.813,0.836,0.737,0.710,0.730,0.844,0.747,0.758,(3.7018)+(0.0350)Ser+(-0.1340)His+(-0.0061)Ala+(0.0102)Pro+(0.0231)Orn;0.813,0.836,0.801,0.794,0.832,0.826,0.738,0.798,(6.9763)+(-0.1093)Cit+(-0.0036)Arg+(0.0000)Val+(0.0554)Orn+(-0.1563)Trp;0.813,0.838,0.809,0.805,0.802,0.815,0.828,0.812,(3.7282)+(0.0002)Gly+(0.0055)Gln+(-0.2032)Met+(0.0652)Ile+(-0.1493)Trp;0.813,0.836,0.781,

0.776,0.768,0.856,0.766,0.791,(3.4773)+(0.0325)Ser+(-0.0944)Asn+(0.0080)Gln+(-0.1349)His+(0.0057)Thr;0.813,0.839,0.798,0.790,0.807,0.817,0.787,0.800,(8.2115)+(-0.0767)His+(-0.0350)Cit+(0.0086)Pro+(0.0090)Lys+(-0.1143)Trp;0.813,0.833,0.767,0.749,0.746,0.812,0.824,0.783,(2.3511)+(0.0082)Gln+(-0.1659)His+(-0.0152)Val+(0.0234)Leu+(0.0702)Phe;0.813,0.838,0.766,0.747,0.777,0.814,0.758,0.774,(3.4773)+(0.0064)Gly+(-0.1333)His+(-0.1979)Met+(0.0195)Orn+(0.1198)Phe;0.813,0.839,0.767,0.748,0.752,0.836,0.801,0.784,(5.5955)+(0.0049)Gly+(-0.0950)His+(-0.1643)Met+(0.1326)Ile+(-0.0470)Leu;0.813,0.832,0.757,0.735,0.735,0.824,0.816,0.777,(3.1058)+(0.0006)Gly+(0.0072)Gln+(-0.1415)His+(0.0959)Ile+(-0.0377)Leu;0.813,0.829,0.749,0.724,0.732,0.849,0.777,0.771,(4.0740)+(0.0441)Ser+(-0.0048)Gly+(-0.1266)His+(-0.0057)Ala+(0.0116)Pro;0.813,0.845,0.817,0.835,0.800,0.788,0.828,0.813,(2.5408)+(0.0035)Gln+(-0.0053)Ala+(-0.0266)Tyr+(0.0925)Phe+(-0.1603)Trp;0.813,0.842,0.793,0.794,0.807,0.748,0.795,0.786,(3.2484)+(-0.0013)Gly+(0.0064)Thr+(0.0011)Pro+(0.0649)Phe+(-0.1795)Trp;0.813,0.839,0.853,0.866,0.853,0.859,0.814,0.848,(5.9487)+(-0.0612)Asn+(0.0091)Gln+(-0.0660)Cit+(-0.0511)Met+(-0.1357)Trp;0.813,0.844,0.800,0.805,0.809,0.752,0.802,0.792,(3.2846)+(-0.0003)Gly+(0.0025)Pro+(-0.0032)Leu+(0.0700)Phe+(-0.1724)Trp;0.813,0.834,0.776,0.771,0.707,0.854,0.875,0.802,(4.3025)+(-0.0101)Ala+(-0.0684)Cit+(-0.0219)Tyr+(-0.0476)Val+(0.1774)Ile;0.813,0.848,0.796,0.801,0.822,0.768,0.751,0.785,(3.8901)+(0.0169)Thr+(-0.0249)Arg+(-0.0046)Lys+(0.0816)Phe+(-0.1775)Trp;0.813,0.841,0.782,0.774,0.767,0.832,0.797,0.792,(3.3201)+(0.0287)Ser+(-0.0050)Ala+(-0.0216)Val+(0.0511)Leu+(-0.1520)Trp;0.813,0.835,0.753,0.735,0.740,0.851,0.757,0.771,(4.6127)+(0.0435)Ser+(-0.0639)Asn+(-0.1132)His+(-0.0053)Ala+(0.0129)Pro;0.813,0.844,0.830,0.835,0.833,0.799,0.830,0.825,(3.9971)+(-0.0028)Ala+(-0.1829)Met+(0.0051)Leu+(0.1090)Phe+(-0.1431)Trp;0.813,0.836,0.720,0.686,0.730,0.8

05,0.726,0.737,(0.9817)+(0.0486)Ser+(-0.1576)His+(-0.0199)Cit+(-0.019
0)Arg+(0.1013)Phe;0.813,0.839,0.793,0.784,0.799,0.810,0.793,0.796,(7.
8642)+(-0.0900)His+(0.0075)Pro+(0.0011)Tyr+(0.0094)Lys+(-0.1095)Trp;0
.812,0.844,0.813,0.823,0.822,0.767,0.797,0.802,(2.5865)+(0.0040)Gln+(
-0.0236)Arg+(0.0028)Pro+(0.0749)Phe+(-0.1769)Trp;0.812,0.836,0.777,0.
764,0.782,0.821,0.772,0.785,(3.7925)+(0.0071)Gly+(-0.1289)His+(-0.001
6)Ala+(-0.1899)Met+(0.1303)Phe;0.812,0.843,0.823,0.828,0.823,0.813,0.
816,0.820,(5.0182)+(-0.0048)Ala+(-0.0835)Cit+(-0.0136)Tyr+(0.1095)Phe
+(-0.1571)Trp;0.812,0.842,0.785,0.803,0.780,0.739,0.779,0.775,(3.4516
)+(0.0052)Pro+(-0.0389)Tyr+(-0.0032)Leu+(0.0902)Phe+(-0.1597)Trp;0.81
2,0.838,0.809,0.805,0.802,0.815,0.827,0.812,(3.7459)+(0.0054)Gln+(-0.
2032)Met+(0.0022)Orn+(0.0643)Ile+(-0.1493)Trp;0.812,0.835,0.767,0.752
,0.701,0.850,0.884,0.797,(3.7134)+(-0.0133)Ala+(-0.0761)Cit+(0.0081)P
ro+(-0.0497)Val+(0.1749)Ile;0.812,0.835,0.785,0.776,0.776,0.854,0.777
,0.796,(3.0897)+(0.0383)Ser+(-0.0058)Gly+(0.0088)Gln+(-0.1470)His+(-0
.0223)Arg;0.812,0.836,0.784,0.768,0.803,0.823,0.762,0.789,(7.9800)+(0
.0058)Gly+(-0.0876)His+(-0.0458)Cit+(0.0286)Leu+(-0.1190)Trp;0.812,0.
844,0.805,0.794,0.816,0.836,0.790,0.809,(8.1184)+(-0.0846)His+(0.0155
)Tyr+(-0.0559)Met+(0.0359)Orn+(-0.0999)Trp;0.812,0.840,0.814,0.806,0.
812,0.819,0.836,0.818,(3.5418)+(0.0056)Gln+(0.0165)Tyr+(-0.2302)Met+(
0.0646)Ile+(-0.1532)Trp;0.812,0.834,0.764,0.751,0.734,0.826,0.814,0.7
81,(3.6011)+(0.0073)Gln+(-0.1295)His+(-0.0276)Tyr+(0.1036)Ile+(-0.038
3)Leu;0.812,0.845,0.819,0.826,0.833,0.782,0.801,0.810,(4.8632)+(-0.06
02)Asn+(-0.0125)Arg+(0.0155)Orn+(0.0735)Phe+(-0.1542)Trp;0.812,0.836,
0.797,0.786,0.806,0.812,0.797,0.800,(8.2411)+(-0.0886)His+(0.0064)Pro
+(0.0052)Tyr+(0.0054)Val+(-0.1092)Trp;0.812,0.838,0.804,0.803,0.814,0
.834,0.763,0.803,(5.0713)+(0.0396)Ser+(-0.0057)Gly+(-0.0596)Cit+(-0.0
059)Arg+(-0.1481)Trp;0.812,0.835,0.795,0.791,0.825,0.826,0.721,0.791,

(6.7274)+(0.0016)Gly+(-0.1124)Cit+(-0.0061)Tyr+(0.0554)Orn+(-0.1548)Trp;0.812,0.842,0.804,0.824,0.795,0.749,0.805,0.794,(2.6265)+(-0.0017)Gly+(0.0034)Gln+(-0.0386)Tyr+(0.0869)Phe+(-0.1656)Trp;0.812,0.837,0.816,0.820,0.839,0.832,0.746,0.809,(8.2501)+(-0.0697)Asn+(0.0220)Thr+(-0.0701)Cit+(0.0020)Val+(-0.1501)Trp;0.812,0.838,0.810,0.806,0.804,0.817,0.829,0.814,(3.7897)+(0.0056)Gln+(-0.1999)Met+(-0.0014)Lys+(0.0658)Ile+(-0.1484)Trp;0.812,0.843,0.797,0.819,0.789,0.763,0.781,0.788,(3.5146)+(-0.0350)Tyr+(-0.0079)Val+(0.0156)Orn+(0.0944)Phe+(-0.1493)Trp;0.812,0.843,0.739,0.701,0.757,0.838,0.730,0.756,(3.1680)+(0.0452)Ser+(-0.1361)His+(-0.1712)Met+(0.0219)Orn+(0.0268)Leu;0.812,0.838,0.778,0.776,0.757,0.805,0.807,0.786,(2.2398)+(0.0093)Gln+(-0.1598)His+(-0.0401)Tyr+(-0.0034)Lys+(0.0978)Phe;0.812,0.838,0.797,0.779,0.807,0.814,0.812,0.803,(8.3319)+(-0.0854)His+(0.0073)Pro+(-0.0634)Met+(0.0223)Leu+(-0.1090)Trp;0.812,0.837,0.768,0.766,0.746,0.796,0.800,0.777,(2.1437)+(0.0088)Gln+(-0.1610)His+(0.0028)Pro+(-0.0452)Tyr+(0.0945)Phe;0.812,0.834,0.773,0.760,0.752,0.835,0.808,0.789,(3.3508)+(0.0101)Gln+(-0.1349)His+(-0.0257)Arg+(0.1097)Ile+(-0.0453)Leu;0.812,0.841,0.797,0.800,0.807,0.750,0.801,0.790,(3.2474)+(-0.0005)Gly+(0.0018)Pro+(0.0044)Orn+(0.0645)Phe+(-0.1745)Trp;0.812,0.836,0.759,0.743,0.749,0.846,0.758,0.774,(3.0938)+(0.0273)Ser+(0.0050)Gln+(-0.1472)His+(-0.0031)Ala+(0.0222)Orn;0.812,0.843,0.779,0.7
97,0.780,0.744,0.757,0.770,(3.1876)+(0.0121)Thr+(-0.0444)Tyr+(-0.0022)Leu+(0.0926)Phe+(-0.1670)Trp;0.812,0.836,0.796,0.784,0.829,0.816,0.746,0.794,(6.6684)+(-0.1122)Cit+(-0.0031)Arg+(0.0521)Orn+(0.0096)Leu+(-0.1669)Trp;0.812,0.841,0.789,0.779,0.744,0.853,0.865,0.810,(5.4292)+(-0.0348)Asn+(-0.0006)Arg+(-0.0549)Val+(-0.2345)Met+(0.1888)Ile;0.812,0.840,0.789,0.778,0.767,0.818,0.843,0.802,(4.7312)+(0.0077)Thr+(-0.0099)Ala+(0.0044)Pro+(0.0629)Ile+(-0.1630)Trp;0.812,0.837,0.794,0.784,

0.773,0.817,0.850,0.806,(4.9262)+(0.0004)Gly+(-0.0095)Ala+(0.0053)Pro+(0.0633)Ile+(-0.1568)Trp;0.812,0.842,0.776,0.766,0.782,0.744,0.813,0.776,(2.3493)+(0.0014)Gln+(0.0011)Thr+(0.0394)Ile+(0.0440)Phe+(-0.1899)Trp;0.812,0.835,0.789,0.781,0.797,0.813,0.774,0.791,(7.6687)+(0.0033)Gly+(-0.0998)His+(0.0071)Val+(0.0087)Lys+(-0.1105)Trp;0.812,0.836,0.787,0.768,0.754,0.859,0.853,0.808,(6.1999)+(-0.0801)His+(-0.0083)Ala+(-0.0532)Cit+(0.1411)Ile+(-0.0539)Leu;0.812,0.845,0.824,0.831,0.831,0.776,0.824,0.816,(4.7092)+(-0.0713)Asn+(0.0020)Lys+(-0.0031)Leu+(0.0795)Phe+(-0.1544)Trp;0.812,0.845,0.828,0.837,0.832,0.791,0.823,0.821,(3.7372)+(-0.0025)Ala+(-0.1983)Met+(0.0060)Lys+(0.1105)Phe+(-0.1448)Trp;0.812,0.844,0.754,0.738,0.766,0.848,0.700,0.763,(4.4491)+(0.0341)Ser+(-0.1233)His+(0.0131)Thr+(-0.1613)Met+(0.0274)Orn;0.812,0.840,0.775,0.738,0.786,0.812,0.825,0.790,(4.1676)+(-0.1249)His+(-0.2208)Met+(0.0142)Orn+(0.0441)Ile+(0.0891)Phe;0.812,0.838,0.807,0.805,0.831,0.817,0.760,0.803,(7.8061)+(-0.0710)Asn+(0.0216)Thr+(-0.0741)Cit+(0.0147)Leu+(-0.1608)Trp;0.812,0.840,0.773,0.760,0.782,0.741,0.812,0.774,(2.9086)+(-0.0006)Gly+(0.0031)Thr+(0.0395)Ile+(0.0444)Phe+(-0.1881)Trp;0.812,0.840,0.796,0.790,0.771,0.824,0.845,0.807,(3.9153)+(0.0024)Gln+(0.0062)Thr+(-0.0093)Ala+(0.0657)Ile+(-0.1672)Trp;0.812,0.834,0.758,0.725,0.751,0.817,0.820,0.778,(1.7162)+(0.0094)Gln+(-0.1678)His+(-0.0484)Cit+(0.0342)Ile+(0.0536)Phe;0.812,0.832,0.748,0.725,0.711,0.823,0.830,0.772,(3.6958)+(0.0049)Gln+(-0.1248)His+(0.0047)Thr+(-0.0299)Val+(0.1131)Ile;0.812,0.837,0.794,0.773,0.810,0.813,0.804,0.800,(8.4279)+(-0.0801)His+(-0.0395)Cit+(0.0065)Pro+(0.0220)Leu+(-0.1212)Trp;0.812,0.835,0.780,0.764,0.784,0.817,0.793,0.789,(7.8510)+(0.0037)Gly+(-0.0961)His+(-0.0157)Val+(0.0508)Leu+(-0.1085)Trp;0.812,0.841,0.772,0.759,0.780,0.743,0.812,0.774,(2.8253)+(0.0041)Thr+(-0.0085)Orn+(0.0421)Ile+(0.0491)Phe+(-0.1902)Trp;0.812,0.834,0.766,0.746,0.741,0.832,0.825,0.78

6,(3.2476)+(0.0074)Gln+(-0.1403)His+(-0.0043)Pro+(0.1044)Ile+(-0.0396)Leu;0.812,0.846,0.819,0.825,0.828,0.782,0.815,0.812,(4.6736)+(-0.0721)Asn+(0.0121)Orn+(-0.0004)Lys+(0.0712)Phe+(-0.1544)Trp;0.812,0.835,0.785,0.781,0.771,0.858,0.769,0.795,(3.3544)+(0.0340)Ser+(-0.0878)Asn+(0.0084)Gln+(-0.1326)His+(-0.0004)Tyr;0.812,0.833,0.794,0.785,0.824,0.814,0.744,0.791,(6.7204)+(-0.1128)Cit+(-0.0096)Tyr+(0.0529)Orn+(0.0104)Leu+(-0.1637)Trp;0.812,0.843,0.791,0.796,0.818,0.760,0.746,0.780,(3.7262)+(0.0142)Thr+(-0.0278)Arg+(0.0068)Orn+(0.0746)Phe+(-0.1793)Trp;0.812,0.839,0.810,0.817,0.819,0.789,0.787,0.803,(4.8028)+(-0.0824)Cit+(-0.0241)Tyr+(-0.0016)Val+(0.1059)Phe+(-0.1604)Trp;0.812,0.837,0.815,0.833,0.822,0.830,0.744,0.807,(5.0398)+(0.0045)Gln+(0.0211)Thr+(-0.1943)Met+(0.0022)Lys+(-0.1475)Trp;0.812,0.836,0.767,0.750,0.736,0.817,0.839,0.785,(4.8478)+(-0.1300)His+(-0.0055)Ala+(-0.0389)Tyr+(0.0471)Ile+(0.0770)Phe;0.812,0.841,0.777,0.792,0.793,0.749,0.725,0.765,(3.8085)+(0.0210)Thr+(-0.0260)Arg+(-0.0424)Tyr+(0.0997)Phe+(-0.1691)Trp;0.812,0.834,0.799,0.793,0.828,0.825,0.736,0.795,(6.9571)+(-0.1107)Cit+(-0.0072)Tyr+(0.0004)Val+(0.0556)Orn+(-0.1545)Trp;0.812,0.832,0.759,0.736,0.736,0.824,0.819,0.779,(3.1469)+(0.0073)Gln+(-0.1416)His+(0.0004)Thr+(0.0956)Ile+(-0.0377)Leu;0.812,0.831,0.755,0.737,0.715,0.831,0.830,0.778,(6.0172)+(-0.0693)Asn+(0.0038)Gly+(-0.0781)His+(-0.0391)Val+(0.1400)Ile;0.812,0.844,0.827,0.835,0.838,0.782,0.815,0.818,(4.8996)+(-0.0573)Asn+(-0.0093)Arg+(-0.0018)Leu+(0.0836)Phe+(-0.1539)Trp;0.812,0.842,0.801,0.795,0.804,0.776,0.826,0.800,(4.4976)+(-0.0518)Asn+(-0.0120)Arg+(0.0406)Ile+(0.0589)Phe+(-0.1686)Trp;0.812,0.838,0.793,0.777,0.801,0.808,0.806,0.798,(6.1034)+(-0.0798)Cit+(0.0019)Arg+(-0.0081)Tyr+(0.0630)Ile+(-0.1691)Trp;0.812,0.844,0.797,0.803,0.806,0.752,0.794,0.789,(3.1723)+(0.0022)Pro+(0.0050)Orn+(-0.0038)Leu+(0.0678)Phe+(-0.1720)Trp;0.812,0.833,0.798,0.794,0.803,0.831,0.778,0.801,(8.2400)+(0.

0036)Gly+(-0.0920)His+(-0.0015)Ala+(0.0097)Val+(-0.1037)Trp;0.812,0.845,0.797,0.801,0.806,0.753,0.795,0.789,(2.4410)+(0.0018)Gln+(0.0038)Thr+(-0.0000)Orn+(0.0659)Phe+(-0.1813)Trp;0.812,0.841,0.792,0.782,0.806,0.821,0.772,0.795,(8.0264)+(-0.0940)His+(-0.0111)Arg+(0.0352)Orn+(0.0094)Lys+(-0.1055)Trp;0.812,0.843,0.799,0.821,0.792,0.753,0.791,0.789,(2.4256)+(0.0031)Gln+(-0.0375)Tyr+(-0.0019)Leu+(0.0897)Phe+(-0.1652)Trp;0.812,0.833,0.768,0.751,0.755,0.812,0.806,0.781,(2.0882)+(0.0020)Gly+(0.0089)Gln+(-0.1698)His+(-0.0069)Lys+(0.0787)Phe;0.812,0.849,0.817,0.820,0.826,0.772,0.825,0.811,(4.6433)+(-0.0710)Asn+(0.0034)Pro+(0.0006)Lys+(0.0745)Phe+(-0.1579)Trp;0.812,0.843,0.777,0.794,0.779,0.740,0.755,0.767,(3.1548)+(0.0114)Thr+(-0.0446)Tyr+(0.0030)Orn+(0.0889)Phe+(-0.1681)Trp;0.812,0.835,0.801,0.790,0.815,0.817,0.792,0.804,(8.6304)+(-0.0740)His+(-0.0400)Cit+(0.0076)Pro+(0.0068)Val+(-0.1158)Trp;0.812,0.836,0.753,0.722,0.741,0.808,0.821,0.773,(1.8129)+(0.0081)Gln+(-0.1743)His+(0.0036)Orn+(0.0289)Ile+(0.0490)Phe;0.812,0.831,0.759,0.742,0.746,0.803,0.799,0.773,(2.2389)+(0.0076)Gln+(-0.1711)His+(0.0075)Thr+(-0.0049)Val+(0.0787)Phe;0.812,0.845,0.827,0.836,0.819,0.801,0.836,0.823,(3.8094)+(-0.0053)Ala+(-0.0039)Val+(-0.0011)Lys+(0.0903)Phe+(-0.1555)Trp;0.812,0.836,0.815,0.830,0.825,0.835,0.743,0.808,(7.5750)+(-0.0456)Asn+(0.0269)Thr+(-0.0014)Ala+(-0.1240)Met+(-0.1367)Trp;0.812,0.845,0.806,0.813,0.812,0.755,0.813,0.798,(2.5780)+(-0.0011)Gly+(0.0023)Gln+(0.0024)Orn+(0.0644)Phe+(-0.1781)Trp;0.812,0.830,0.764,0.746,0.723,0.831,0.848,0.787,(6.3796)+(-0.0581)Asn+(-0.0759)His+(-0.0386)Val+(0.1423)Ile+(-0.0040)Leu;0.812,0.842,0.756,0.730,0.784,0.856,0.698,0.767,(4.5113)+(0.0382)Ser+(-0.1111)His+(-0.0665)Cit+(-0.1247)Met+(0.0500)Orn;0.812,0.841,0.786,0.802,0.781,0.738,0.785,0.777,(3.5679)+(-0.0007)Gly+(0.0049)Pro+(-0.0392)Tyr+(0.0871)Phe+(-0.1616)Trp;0.812,0.836,0.747,0.721,0.714,0.825,0.828,0.772,(3.7218)+(0.0044)Gln+(-0.1234

)His+(-0.0314)Val+(0.0184)Orn+(0.1126)Ile;0.812,0.847,0.804,0.818,0.801,0.760,0.804,0.796,(4.6425)+(-0.0601)Asn+(0.0053)Pro+(-0.0319)Tyr+(0.0899)Phe+(-0.1484)Trp;0.812,0.840,0.777,0.741,0.783,0.811,0.835,0.792,(4.0963)+(-0.1238)His+(0.0052)Arg+(-0.2325)Met+(0.0484)Ile+(0.0947)Phe;0.812,0.837,0.783,0.773,0.740,0.850,0.850,0.803,(4.8819)+(-0.0043)Arg+(-0.0490)Val+(-0.2586)Met+(0.2030)Ile+(-0.0186)Leu;0.811,0.838,0.768,0.753,0.777,0.805,0.761,0.774,(3.2782)+(0.0073)Gly+(-0.1383)His+(-0.2225)Met+(0.0080)Lys+(0.1295)Phe;0.811,0.843,0.819,0.830,0.828,0.774,0.801,0.808,(2.6096)+(-0.0003)Gly+(0.0042)Gln+(-0.0227)Arg+(0.0768)Phe+(-0.1757)Trp;0.811,0.841,0.757,0.740,0.764,0.852,0.722,0.769,(4.2741)+(0.0375)Ser+(-0.1201)His+(-0.0009)Ala+(-0.1162)Met+(0.0322)Orn;0.811,0.839,0.809,0.805,0.828,0.786,0.798,0.804,(4.6617)+(-0.0876)Cit+(-0.0012)Arg+(0.0037)Leu+(0.0872)Phe+(-0.1746)Trp;0.811,0.844,0.822,0.828,0.832,0.788,0.807,0.814,(3.7550)+(0.0013)Tyr+(-0.2080)Met+(0.0119)Orn+(0.1042)Phe+(-0.1420)Trp;0.811,0.842,0.815,0.819,0.810,0.794,0.830,0.813,(3.6013)+(-0.0066)Ala+(0.0097)Orn+(0.0030)Leu+(0.0749)Phe+(-0.1622)Trp;0.811,0.836,0.802,0.794,0.788,0.825,0.833,0.810,(5.5429)+(0.0022)Gly+(-0.0055)Ala+(-0.1374)Met+(0.0759)Ile+(-0.1393)Trp;0.811,0.835,0.811,0.825,0.825,0.826,0.734,0.802,(7.4790)+(-0.0459)Asn+(0.0267)Thr+(-0.0001)Val+(-0.1331)Met+(-0.1380)Trp;0.811,0.843,0.779,0.778,0.772,0.760,0.814,0.781,(3.6352)+(-0.0342)Tyr+(-0.0087)Lys+(0.0486)Ile+(0.0714)Phe+(-0.1666)Trp;0.811,0.837,0.793,0.783,0.810,0.814,0.769,0.794,(6.4444)+(0.0155)Thr+(-0.0726)Cit+(-0.0191)Val+(0.0450)Leu+(-0.1699)Trp;0.811,0.832,0.754,0.733,0.716,0.825,0.838,0.778,(3.6812)+(-0.0000)Gly+(0.0055)Gln+(-0.1227)His+(-0.0298)Val+(0.1135)Ile;0.811,0.837,0.784,0.784,0.773,0.860,0.751,0.792,(3.0258)+(0.0319)Ser+(0.0076)Gln+(-0.1317)His+(0.0005)Ala+(-0.1275)Met;0.811,0.836,0.779,0.778,0.760,0.811,0.800,0.787,(2.0945)+(0.0101)Gln+(-0.1550)His+(-0.0437)Ci

t+(-0.0440)Tyr+(0.1041)Phe;0.811,0.831,0.763,0.751,0.764,0.843,0.733,0.773,(2.5260)+(0.0327)Ser+(0.0083)Gln+(-0.1584)His+(-0.0232)Arg+(0.0058)Val;0.811,0.841,0.812,0.818,0.820,0.794,0.791,0.806,(4.9271)+(-0.0839)Cit+(-0.0228)Tyr+(-0.0024)Lys+(0.1054)Phe+(-0.1607)Trp;0.811,0.839,0.820,0.834,0.830,0.834,0.753,0.813,(4.9203)+(0.0047)Gln+(0.0215)Thr+(0.0176)Tyr+(-0.2156)Met+(-0.1508)Trp;0.811,0.833,0.810,0.824,0.823,0.818,0.740,0.801,(7.2351)+(-0.0501)Asn+(0.0249)Thr+(-0.1429)Met+(0.0056)Lys+(-0.1422)Trp;0.811,0.829,0.741,0.701,0.736,0.838,0.784,0.765,(3.5204)+(0.0451)Ser+(-0.0039)Gly+(-0.1445)His+(-0.0043)Ala+(0.0236)Leu;0.811,0.829,0.735,0.704,0.734,0.824,0.758,0.755,(1.9960)+(0.0328)Ser+(0.0056)Gln+(-0.1665)His+(-0.0023)Thr+(0.0185)Leu;0.811,0.839,0.808,0.814,0.817,0.785,0.786,0.801,(4.7350)+(-0.0850)Cit+(0.0018)Arg+(-0.0251)Tyr+(0.1036)Phe+(-0.1630)Trp;0.811,0.837,0.746,0.715,0.753,0.837,0.747,0.763,(3.4230)+(0.0470)Ser+(-0.1317)His+(-0.0020)Ala+(-0.1502)Met+(0.0319)Leu;0.811,0.837,0.801,0.795,0.775,0.822,0.854,0.811,(3.8857)+(0.0030)Gln+(-0.0089)Ala+(0.0018)Orn+(0.0656)Ile+(-0.1634)Trp;0.811,0.846,0.805,0.813,0.811,0.759,0.803,0.796,(2.4452)+(0.0022)Gln+(0.0028)Orn+(-0.0031)Leu+(0.0682)Phe+(-0.1760)Trp;0.811,0.837,0.782,0.801,0.768,0.817,0.738,0.781,(-1.4957)+(0.0529)Ser+(-0.1151)Asn+(-0.0153)Val+(-0.2569)Met+(0.1382)Phe;0.811,0.839,0.779,0.768,0.735,0.849,0.847,0.800,(4.4946)+(0.0023)Gly+(-0.0038)Arg+(-0.0544)Val+(-0.2741)Met+(0.1906)Ile;0.811,0.838,0.845,0.859,0.845,0.855,0.797,0.839,(5.9145)+(-0.0784)Asn+(0.0020)Gly+(0.0084)Gln+(-0.0730)Cit+(-0.1405)Trp;0.811,0.838,0.802,0.794,0.811,0.813,0.799,0.804,(8.4936)+(-0.0800)His+(0.0083)Pro+(0.0059)Val+(-0.0498)Met+(-0.1041)Trp;0.811,0.835,0.783,0.767,0.792,0.817,0.781,0.789,(7.7682)+(0.0039)Gly+(-0.1010)His+(0.0006)Arg+(0.0259)Leu+(-0.1108)Trp;0.811,0.832,0.762,0.738,0.758,0.825,0.789,0.777,(3.2477)+(0.0100)Gln+(-0.1652)His+(0.0107)Thr+(-0.0255)Arg+(0

.0438)Ile;0.811,0.838,0.790,0.771,0.799,0.809,0.809,0.797,(8.1200)+(-0.0943)His+(-0.0002)Arg+(0.0056)Pro+(0.0210)Leu+(-0.1135)Trp;0.811,0.832,0.758,0.739,0.720,0.830,0.841,0.782,(3.7214)+(0.0056)Gln+(-0.1226)His+(-0.0028)Pro+(-0.0296)Val+(0.1168)Ile;0.811,0.837,0.750,0.732,0.755,0.844,0.718,0.762,(4.2490)+(0.0457)Ser+(-0.0292)Asn+(-0.1101)His+(0.0123)Pro+(-0.1363)Met;0.811,0.837,0.794,0.784,0.773,0.815,0.847,0.805,(4.9203)+(-0.0095)Ala+(0.0050)Pro+(0.0042)Orn+(0.0618)Ile+(-0.1569)Trp;0.811,0.828,0.732,0.701,0.724,0.826,0.763,0.754,(2.3459)+(0.0322)Ser+(0.0048)Gln+(-0.1590)His+(-0.0154)Val+(0.0411)Leu;0.811,0.832,0.740,0.711,0.734,0.833,0.765,0.761,(4.3523)+(0.0467)Ser+(-0.0861)Asn+(-0.1204)His+(-0.0254)Val+(0.0589)Leu;0.811,0.840,0.773,0.775,0.764,0.744,0.808,0.773,(3.3328)+(-0.0005)Gly+(-0.0390)Tyr+(0.0434)Ile+(0.0668)Phe+(-0.1728)Trp;0.811,0.837,0.817,0.823,0.838,0.834,0.745,0.810,(8.2857)+(-0.0737)Asn+(0.0219)Thr+(-0.0679)Cit+(0.0020)Lys+(-0.1476)Trp;0.811,0.835,0.808,0.800,0.795,0.824,0.847,0.816,(5.9740)+(-0.0037)Asn+(-0.0054)Ala+(-0.1265)Met+(0.0740)Ile+(-0.1395)Trp;0.811,0.834,0.783,0.779,0.770,0.856,0.768,0.793,(3.2964)+(0.0340)Ser+(-0.0900)Asn+(0.0083)Gln+(-0.1335)His+(0.0012)Lys;0.811,0.833,0.714,0.677,0.720,0.798,0.742,0.734,(0.9433)+(0.0466)Ser+(-0.0015)Gly+(-0.1601)His+(-0.0327)Cit+(0.0925)Phe;0.811,0.843,0.790,0.792,0.804,0.748,0.786,0.782,(3.0155)+(0.0050)Thr+(0.0012)Pro+(0.0012)Orn+(0.0654)Phe+(-0.1791)Trp;0.811,0.835,0.814,0.827,0.827,0.824,0.745,0.806,(7.6776)+(-0.0433)Asn+(-0.0017)Gly+(0.0279)Thr+(-0.1360)Met+(-0.1391)Trp;0.811,0.846,0.800,0.807,0.804,0.752,0.805,0.792,(2.4192)+(0.0021)Gln+(0.0014)Pro+(0.0011)Orn+(0.0651)Phe+(-0.1792)Trp;0.811,0.835,0.742,0.712,0.713,0.820,0.826,0.768,(5.0202)+(-0.1068)His+(-0.0034)Pro+(-0.0356)Val+(0.0274)Orn+(0.1264)Ile;0.811,0.843,0.811,0.827,0.809,0.770,0.800,0.801,(4.4860)+(-0.0626)Asn+(0.0015)Gly+(-0.0

260)Tyr+(0.0936)Phe+(-0.1474)Trp;0.811,0.842,0.804,0.824,0.799,0.762,0.794,0.795,(3.6699)+(-0.0316)Tyr+(-0.0060)Val+(-0.0004)Lys+(0.1001)Phe+(-0.1525)Trp;0.811,0.842,0.817,0.821,0.810,0.797,0.834,0.815,(3.5792)+(0.0004)Gly+(-0.0064)Ala+(0.0047)Leu+(0.0802)Phe+(-0.1641)Trp;0.811,0.840,0.782,0.799,0.778,0.740,0.775,0.773,(3.3690)+(0.0042)Pro+(-0.0399)Tyr+(0.0071)Orn+(0.0836)Phe+(-0.1615)Trp;0.811,0.836,0.802,0.796,0.807,0.816,0.800,0.804,(8.5150)+(-0.0118)Asn+(-0.0798)His+(0.0078)Pro+(0.0086)Tyr+(-0.1033)Trp;0.811,0.832,0.731,0.693,0.730,0.838,0.758,0.755,(3.2820)+(0.0373)Ser+(-0.1487)His+(-0.0049)Ala+(0.0197)Orn+(0.0212)Leu;0.811,0.838,0.816,0.834,0.821,0.832,0.743,0.808,(5.0883)+(0.0047)Gln+(0.0217)Thr+(0.0005)Val+(-0.1907)Met+(-0.1465)Trp;0.811,0.842,0.816,0.833,0.803,0.786,0.819,0.810,(3.8397)+(-0.0042)Ala+(-0.0234)Tyr+(-0.0040)Val+(0.1005)Phe+(-0.1495)Trp;0.811,0.845,0.803,0.806,0.814,0.763,0.804,0.797,(3.5078)+(-0.0000)Gly+(0.0027)Pro+(-0.0056)Lys+(0.0734)Phe+(-0.1691)Trp;0.811,0.841,0.787,0.772,0.747,0.851,0.863,0.808,(4.5800)+(-0.0027)Arg+(0.0171)Tyr+(-0.0562)Val+(-0.2977)Met+(0.1929)Ile;0.811,0.835,0.747,0.712,0.754,0.838,0.755,0.765,(4.2626)+(0.0414)Ser+(-0.0052)Gly+(-0.1335)His+(0.0286)Orn+(-0.0063)Lys;0.811,0.839,0.764,0.731,0.742,0.833,0.846,0.788,(4.4473)+(-0.1373)His+(-0.0073)Ala+(0.0172)Orn+(0.0415)Ile+(0.0509)Phe;0.811,0.842,0.795,0.796,0.810,0.749,0.794,0.787,(3.2698)+(-0.0014)Gly+(0.0065)Thr+(0.0021)Orn+(0.0645)Phe+(-0.1789)Trp;0.811,0.840,0.771,0.773,0.764,0.743,0.805,0.771,(3.2447)+(-0.0385)Tyr+(-0.0020)Orn+(0.0440)Ile+(0.0679)Phe+(-0.1736)Trp;0.811,0.840,0.797,0.797,0.816,0.838,0.726,0.794,(4.7985)+(0.0320)Ser+(-0.0684)Cit+(-0.0056)Arg+(0.0068)Tyr+(-0.1525)Trp;0.811,0.831,0.728,0.695,0.729,0.818,0.749,0.748,(1.9787)+(0.0322)Ser+(0.0052)Gln+(-0.1676)His+(0.0023)Pro+(0.0168)Leu;0.811,0.839,0.813,0.811,0.806,0.810,0.837,0.816,(4.2926)+(-0.0880)Asn+(0.0054)Gln+(0.0027)Orn+(0.0467)Ile

+(-0.1598)Trp;0.811,0.835,0.794,0.783,0.805,0.823,0.777,0.797,(7.8775)+(0.0038)Gly+(-0.0974)His+(0.0145)Tyr+(0.0079)Val+(-0.1096)Trp;0.811,0.843,0.812,0.824,0.823,0.771,0.786,0.801,(2.6565)+(0.0038)Gln+(-0.0244)Arg+(0.0089)Orn+(0.0723)Phe+(-0.1749)Trp;0.811,0.834,0.762,0.744,0.774,0.800,0.759,0.769,(3.4102)+(0.0073)Gly+(-0.1293)His+(0.0066)Pro+(-0.2232)Met+(0.1263)Phe;0.811,0.840,0.771,0.773,0.763,0.743,0.805,0.771,(3.2297)+(0.0001)Pro+(-0.0389)Tyr+(0.0433)Ile+(0.0670)Phe+(-0.1733)Trp;0.811,0.837,0.812,0.802,0.817,0.823,0.817,0.815,(7.2280)+(-0.0075)Ala+(-0.0764)Cit+(0.0127)Pro+(0.0182)Leu+(-0.1524)Trp;0.811,0.841,0.801,0.807,0.811,0.756,0.798,0.793,(3.3290)+(-0.0006)Gly+(0.0067)Orn+(-0.0031)Leu+(0.0678)Phe+(-0.1707)Trp;0.811,0.847,0.801,0.805,0.811,0.764,0.800,0.795,(3.4779)+(0.0022)Pro+(0.0078)Orn+(-0.0066)Lys+(0.0698)Phe+(-0.1677)Trp;0.811,0.840,0.747,0.716,0.750,0.838,0.756,0.765,(3.5743)+(0.0467)Ser+(-0.1216)His+(-0.0222)Val+(-0.1734)Met+(0.0643)Leu;0.811,0.838,0.706,0.660,0.724,0.809,0.718,0.728,(0.7970)+(0.0423)Ser+(-0.1601)His+(-0.0573)Cit+(0.0275)Orn+(0.0852)Phe;0.811,0.831,0.765,0.746,0.723,0.833,0.851,0.788,(6.4299)+(-0.0585)Asn+(-0.0765)His+(-0.0008)Pro+(-0.0397)Val+(0.1405)Ile;0.811,0.842,0.744,0.728,0.721,0.813,0.786,0.762,(-4.5930)+(0.0509)Ser+(-0.0075)Ala+(-0.3937)Met+(0.0671)Ile+(0.0853)Phe;0.811,0.834,0.785,0.778,0.772,0.821,0.805,0.794,(2.1631)+(0.0114)Gln+(-0.1673)His+(-0.0234)Arg+(-0.0048)Val+(0.0874)Phe;0.811,0.844,0.794,0.798,0.807,0.753,0.785,0.786,(3.0584)+(0.0055)Thr+(0.0027)Orn+(-0.0032)Leu+(0.0685)Phe+(-0.1762)Trp;0.811,0.838,0.776,0.763,0.782,0.745,0.819,0.777,(2.9278)+(0.0002)Gly+(-0.0061)Orn+(0.0425)Ile+(0.0490)Phe+(-0.1868)Trp;0.811,0.834,0.761,0.766,0.776,0.792,0.697,0.758,(-1.8510)+(0.0560)Ser+(-0.0879)Asn+(-0.0765)Cit+(-0.2946)Met+(0.1204)Phe;0.811,0.839,0.779,0.779,0.772,0.796,0.780,0.782,(3.7624)+(0.0400)Ser+(-0.0090)Gly+(0.0076)Pro+(-0.0221)Tyr+(-0.1482)Trp;0.81

1,0.830,0.802,0.793,0.808,0.817,0.804,0.806,(8.2419)+(-0.0931)His+(-0.0018)Ala+(0.0071)Val+(0.0095)Lys+(-0.1099)Trp;0.811,0.835,0.770,0.755,0.779,0.811,0.762,0.777,(3.5776)+(0.0088)Asn+(0.0071)Gly+(-0.1325)His+(-0.2070)Met+(0.1305)Phe;0.811,0.831,0.797,0.795,0.722,0.874,0.900,0.823,(4.3669)+(-0.1282)Asn+(0.0042)Gln+(-0.0073)Ala+(-0.0539)Val+(0.1754)Ile;0.811,0.831,0.764,0.746,0.723,0.829,0.851,0.787,(6.3423)+(-0.0664)Asn+(-0.0777)His+(-0.0404)Val+(0.0037)Lys+(0.1384)Ile;0.811,0.837,0.818,0.824,0.839,0.836,0.745,0.811,(8.3883)+(-0.0712)Asn+(0.0226)Thr+(-0.0679)Cit+(0.0002)Tyr+(-0.1463)Trp;0.811,0.830,0.755,0.740,0.713,0.824,0.830,0.777,(4.0184)+(0.0056)Gln+(-0.1154)His+(-0.0219)Tyr+(-0.0288)Val+(0.1169)Ile;0.811,0.831,0.737,0.700,0.721,0.823,0.809,0.763,(5.1843)+(-0.0968)His+(-0.0638)Cit+(-0.0366)Val+(0.0444)Orn+(0.1250)Ile;0.811,0.835,0.733,0.702,0.706,0.814,0.816,0.759,(4.7743)+(-0.1124)His+(0.0061)Thr+(-0.0350)Val+(0.0227)Orn+(0.1208)Ile;0.811,0.837,0.776,0.742,0.783,0.810,0.828,0.791,(4.2268)+(-0.1211)His+(0.0016)Pro+(-0.2283)Met+(0.0460)Ile+(0.0941)Phe;0.811,0.836,0.814,0.800,0.806,0.833,0.855,0.823,(5.7033)+(-0.0060)Ala+(0.0220)Tyr+(-0.1614)Met+(0.0741)Ile+(-0.1445)Trp;0.811,0.832,0.714,0.679,0.719,0.799,0.733,0.732,(0.9370)+(0.0444)Ser+(-0.1578)His+(-0.0338)Cit+(-0.0023)Val+(0.0977)Phe;0.811,0.831,0.735,0.715,0.697,0.811,0.810,0.758,(5.4624)+(-0.1029)His+(0.0126)Thr+(-0.0287)Tyr+(-0.0325)Val+(0.1275)Ile;0.811,0.842,0.795,0.816,0.788,0.752,0.787,0.786,(2.4728)+(0.0028)Gln+(-0.0385)Tyr+(0.0054)Orn+(0.0850)Phe+(-0.1658)Trp;0.811,0.841,0.781,0.770,0.773,0.801,0.810,0.789,(3.3992)+(0.0383)Ser+(-0.0079)Gly+(-0.0221)Val+(0.0443)Leu+(-0.1572)Trp;0.811,0.836,0.841,0.845,0.847,0.842,0.820,0.838,(5.6007)+(-0.0764)Asn+(0.0083)Gln+(-0.0775)Cit+(0.0146)Leu+(-0.1559)Trp;0.811,0.836,0.806,0.816,0.820,0.823,0.735,0.799,(7.0332)+(-0.0482)Asn+(0.0233)Thr+(-0.1374)Met+(0.0183)Orn+(-0.1380)Trp;0.811,0.831,0.735,0.

700,0.733,0.840,0.758,0.758,(3.6016)+(0.0424)Ser+(-0.1420)His+(-0.004
0)Ala+(-0.0076)Lys+(0.0283)Leu;0.811,0.840,0.774,0.772,0.758,0.818,0.
782,0.783,(2.8993)+(0.0291)Ser+(-0.0080)Ala+(0.0096)Pro+(0.0136)Leu+(
-0.1549)Trp;0.811,0.836,0.798,0.788,0.776,0.820,0.855,0.810,(5.3820)+
(-0.0092)Ala+(0.0054)Pro+(-0.0054)Lys+(0.0664)Ile+(-0.1509)Trp;0.811,
0.832,0.745,0.713,0.743,0.839,0.764,0.765,(4.0028)+(0.0453)Ser+(-0.05
73)Asn+(-0.1335)His+(-0.0037)Ala+(0.0248)Leu;0.811,0.838,0.802,0.801,
0.793,0.829,0.802,0.806,(3.7603)+(0.0362)Ser+(-0.0076)Gly+(-0.0042)Al
a+(0.0178)Orn+(-0.1461)Trp;0.811,0.838,0.769,0.762,0.764,0.812,0.768,
0.777,(3.2648)+(0.0317)Ser+(-0.0227)Val+(-0.0097)Lys+(0.0520)Leu+(-0.
1515)Trp;0.811,0.836,0.804,0.805,0.807,0.828,0.775,0.804,(8.0284)+(0.
0032)Gly+(-0.0857)His+(-0.0657)Met+(0.0149)Lys+(-0.1013)Trp;0.810,0.8
37,0.776,0.743,0.782,0.807,0.829,0.790,(4.1814)+(-0.1241)His+(-0.2308
)Met+(0.0028)Lys+(0.0466)Ile+(0.0939)Phe;0.810,0.841,0.794,0.783,0.77
4,0.825,0.840,0.805,(5.2677)+(0.0129)Thr+(-0.0087)Ala+(-0.0093)Lys+(0
.0712)Ile+(-0.1578)Trp;0.810,0.837,0.791,0.780,0.772,0.817,0.841,0.80
2,(4.8447)+(-0.0007)Gly+(0.0093)Thr+(-0.0090)Ala+(0.0657)Ile+(-0.1641
)Trp;0.810,0.842,0.788,0.774,0.792,0.768,0.832,0.792,(3.5305)+(-0.002
0)Pro+(-0.0109)Lys+(0.0497)Ile+(0.0553)Phe+(-0.1754)Trp;0.810,0.839,0
.804,0.800,0.808,0.819,0.793,0.805,(8.5941)+(0.0001)Asn+(-0.0732)His+
(0.0099)Pro+(-0.0468)Met+(-0.0979)Trp;0.810,0.839,0.789,0.784,0.783,0
.860,0.766,0.798,(3.4504)+(0.0348)Ser+(-0.0889)Asn+(0.0091)Gln+(-0.12
49)His+(-0.0376)Cit;0.810,0.846,0.819,0.833,0.828,0.775,0.797,0.808,(
2.5815)+(0.0042)Gln+(-0.0228)Arg+(-0.0024)Leu+(0.0793)Phe+(-0.1740)Tr
p;0.810,0.836,0.811,0.814,0.815,0.835,0.774,0.810,(7.3257)+(0.0031)Gl
y+(-0.0064)Ala+(-0.0762)Cit+(0.0147)Pro+(-0.1392)Trp;0.810,0.845,0.80
5,0.809,0.815,0.768,0.799,0.798,(3.5177)+(0.0092)Orn+(-0.0063)Lys+(-0
.0002)Leu+(0.0709)Phe+(-0.1664)Trp;0.810,0.839,0.854,0.867,0.853,0.86

1,0.819,0.850,(6.1036)+(-0.0709)Asn+(0.0086)Gln+(-0.0016)Ala+(-0.0689)Cit+(-0.1374)Trp;0.810,0.838,0.813,0.811,0.805,0.810,0.838,0.816,(4.2623)+(-0.0878)Asn+(0.0003)Gly+(0.0055)Gln+(0.0479)Ile+(-0.1599)Trp;0.810,0.837,0.800,0.797,0.803,0.816,0.792,0.802,(8.6107)+(-0.0091)Asn+(-0.0775)His+(-0.0012)Arg+(0.0087)Pro+(-0.1003)Trp;0.810,0.833,0.755,0.724,0.752,0.849,0.772,0.774,(4.1944)+(0.0393)Ser+(-0.0047)Gly+(-0.1326)His+(-0.0031)Ala+(0.0278)Orn;0.810,0.832,0.753,0.733,0.715,0.824,0.837,0.777,(3.6367)+(0.0055)Gln+(-0.1208)His+(-0.0273)Val+(0.1199)Ile+(-0.0089)Leu;0.810,0.830,0.769,0.754,0.755,0.808,0.812,0.782,(2.1817)+(0.0085)Gln+(-0.1679)His+(0.0007)Pro+(-0.0046)Val+(0.0779)Phe;0.810,0.844,0.823,0.831,0.816,0.8

01,0.832,0.820,(3.7406)+(0.0005)Gly+(-0.0058)Ala+(-0.0024)Lys+(0.0860)Phe+(-0.1588)Trp;0.810,0.843,0.775,0.766,0.793,0.756,0.778,0.773,(3.4269)+(0.0125)Thr+(-0.0277)Arg+(0.0402)Ile+(0.0562)Phe+(-0.1881)Trp;0.810,0.838,0.749,0.717,0.776,0.847,0.709,0.762,(4.7338)+(0.0403)Ser+(-0.0730)Asn+(-0.1127)His+(-0.0670)Cit+(0.0476)Orn;0.810,0.837,0.796,0.787,0.779,0.836,0.824,0.806,(2.2140)+(0.0114)Gln+(-0.1648)His+(-0.0040)Ala+(-0.0217)Arg+(0.0851)Phe;0.810,0.830,0.737,0.711,0.725,0.843,0.753,0.758,(3.6218)+(0.0387)Ser+(-0.1360)His+(-0.0063)Ala+(0.0105)Pro+(0.0053)Val;0.810,0.841,0.794,0.792,0.797,0.765,0.810,0.791,(2.4431)+(0.0037)Gln+(-0.0250)Arg+(0.0415)Ile+(0.0543)Phe+(-0.1863)Trp;0.810,0.837,0.797,0.788,0.805,0.811,0.794,0.799,(8.3532)+(-0.0867)His+(-0.0014)Arg+(0.0070)Pro+(0.0056)Val+(-0.1073)Trp;0.810,0.835,0.805,0.798,0.784,0.831,0.849,0.815,(5.6974)+(-0.0414)Asn+(0.0018)Gly+(-0.0072)Ala+(0.0665)Ile+(-0.1476)Trp;0.810,0.844,0.806,0.809,0.817,0.766,0.802,0.798,(3.5830)+(-0.0003)Gly+(0.0094)Orn+(-0.0063)Lys+(0.0704)Phe+(-0.1663)Trp;0.810,0.837,0.772,0.752,0.764,0.817,0.810,0.786,(2.2971)+(0.0088)Gln+(-0.1684)His+(0.0145)Orn+(-0.0084)Lys+(0.0720)Phe;0.810,0.83

9,0.805,0.808,0.816,0.785,0.788,0.799,(4.7506)+(-0.0847)Cit+(-0.0250)Tyr+(0.0045)Leu+(0.0999)Phe+(-0.1661)Trp;0.810,0.835,0.807,0.811,0.824,0.816,0.759,0.802,(5.3851)+(0.0041)Gln+(0.0076)Thr+(-0.0834)Cit+(0.0065)Pro+(-0.1665)Trp;0.810,0.834,0.796,0.780,0.800,0.816,0.817,0.803,(8.1752)+(-0.0960)His+(-0.0023)Ala+(0.0068)Lys+(0.0232)Leu+(-0.1133)Trp;0.810,0.839,0.781,0.772,0.786,0.753,0.815,0.781,(2.3542)+(0.0017)Gln+(-0.0030)Pro+(0.0428)Ile+(0.0449)Phe+(-0.1885)Trp;0.810,0.835,0.768,0.749,0.781,0.809,0.763,0.775,(3.6253)+(0.0073)Gly+(-0.1334)His+(-0.2067)Met+(0.0063)Leu+(0.1241)Phe;0.810,0.835,0.803,0.798,0.777,0.824,0.858,0.814,(3.9392)+(-0.0006)Gly+(0.0032)Gln+(-0.0088)Ala+(0.0660)Ile+(-0.1635)Trp;0.810,0.836,0.794,0.788,0.799,0.806,0.788,0.795,(8.1302)+(-0.0881)His+(-0.0091)Arg+(0.0081)Pro+(0.0116)Lys+(-0.1097)Trp;0.810,0.829,0.729,0.694,0.725,0.835,0.756,0.752,(3.3934)+(0.0384)Ser+(-0.1485)His+(0.0034)Thr+(-0.0045)Ala+(0.0242)Leu;0.810,0.833,0.764,0.746,0.753,0.812,0.802,0.778,(2.2009)+(0.0077)Gln+(-0.1664)His+(-0.0061)Val+(0.0157)Orn+(0.0759)Phe;0.810,0.834,0.756,0.731,0.735,0.823,0.814,0.776,(3.1624)+(0.0068)Gln+(-0.1424)His+(0.0098)Orn+(0.0939)Ile+(-0.0383)Leu;0.810,0.833,0.735,0.704,0.707,0.815,0.818,0.761,(4.7912)+(0.0010)Gly+(-0.1084)His+(-0.0351)Val+(0.0250)Orn+(0.1219)Ile;0.810,0.828,0.763,0.748,0.748,0.809,0.800,0.776,(2.0027)+(0.0019)Gly+(0.0081)Gln+(-0.1690)His+(-0.0041)Val+(0.0803)Phe;0.810,0.836,0.750,0.720,0.734,0.809,0.820,0.771,(3.7495)+(-0.1126)His+(-0.0490)Cit+(0.1157)Ile+(-0.0621)Leu+(0.0778)Phe;0.810,0.844,0.815,0.828,0.823,0.780,0.794,0.806,(3.8719)+(0.0009)Gly+(-0.0166)Arg+(-0.0066)Val+(0.0918)Phe+(-0.1596)Trp;0.810,0.839,0.745,0.726,0.751,0.839,0.717,0.758,(3.7105)+(0.0434)Ser+(-0.1177)His+(0.0126)Pro+(-0.1828)Met+(0.0062)Lys;0.810,0.834,0.775,0.748,0.751,0.837,0.854,0.798,(4.9181)+(-0.0199)Asn+(-0.1290)His+(-0.0070)Ala+(0.0443)Ile+(0.0582)Phe;0.810,0.832,0.763,0.735,0.752,0

.827,0.814,0.782,(3.2530)+(0.0011)Gly+(0.0087)Gln+(-0.1559)His+(-0.0081)Lys+(0.0489)Ile;0.810,0.832,0.778,0.769,0.714,0.861,0.876,0.805,(3.8608)+(-0.0110)Ala+(-0.0741)Cit+(-0.0363)Val+(0.2031)Ile+(-0.0385)Leu;0.810,0.829,0.764,0.750,0.721,0.829,0.846,0.786,(6.6531)+(-0.0537)Asn+(-0.0737)His+(-0.0157)Tyr+(-0.0388)Val+(0.1413)Ile;0.810,0.837,0.824,0.825,0.828,0.837,0.805,0.824,(8.3680)+(-0.0301)Asn+(-0.0055)Ala+(-0.0661)Cit+(0.0140)Pro+(-0.1321)Trp;0.810,0.834,0.767,0.751,0.765,0.814,0.779,0.777,(2.1087)+(0.0104)Gln+(-0.1795)His+(0.0137)Thr+(-0.0290)Arg+(0.0783)Phe;0.810,0.833,0.794,0.789,0.803,0.823,0.770,0.796,(8.1934)+(-0.0045)Asn+(0.0036)Gly+(-0.0923)His+(0.0087)Val+(-0.1043)Trp;0.810,0.831,0.728,0.693,0.731,0.824,0.747,0.749,(2.0785)+(0.0311)Ser+(0.0049)Gln+(-0.1680)His+(0.0107)Orn+(0.0163)Leu;0.810,0.835,0.759,0.738,0.721,0.829,0.841,0.782,(3.8755)+(0.0061)Gln+(-0.1183)His+(-0.0293)Val+(-0.0063)Lys+(0.1169)Ile;0.810,0.833,0.739,0.707,0.711,0.817,0.822,0.764,(4.9104)+(-0.1058)His+(-0.0339)Val+(0.0254)Orn+(0.1269)Ile+(-0.0060)Leu;0.810,0.832,0.708,0.669,0.716,0.798,0.733,0.729,(0.8205)+(0.0449)Ser+(-0.1620)His+(-0.0354)Cit+(0.0036)Leu+(0.0896)Phe;0.810,0.845,0.766,0.760,0.745,0.796,0.805,0.777,(-0.5333)+(0.0167)Thr+(-0.3874)Met+(0.1709)Ile+(-0.0940)Leu+(0.1113)Phe;0.810,0.843,0.821,0.830,0.831,0.776,0.812,0.812,(3.6318)+(-0.2158)Met+(0.0056)Lys+(0.0003)Leu+(0.1084)Phe+(-0.1472)Trp;0.810,0.832,0.710,0.673,0.717,0.798,0.730,0.729,(0.8852)+(0.0443)Ser+(-0.1611)His+(0.0011)Thr+(-0.0356)Cit+(0.0934)Phe;0.810,0.843,0.788,0.803,0.783,0.748,0.784,0.780,(3.6023)+(0.0051)Pro+(-0.0371)Tyr+(-0.0034)Lys+(0.0901)Phe+(-0.1590)Trp;0.810,0.835,0.718,0.672,0.734,0.826,0.728,0.740,(3.3325)+(0.0401)Ser+(-0.1494)His+(0.0209)Orn+(-0.0110)Lys+(0.0220)Leu;0.810,0.836,0.810,0.827,0.816,0.827,0.742,0.803,(4.9701)+(0.0041)Gln+(0.0196)Thr+(-0.1916)Met+(0.0131)Orn+(-0.1456)Trp;0.810,0.834,0.760,0.746,0.764,0.847,0.724,0.770,(

2.9463)+(0.0301)Ser+(0.0072)Gln+(-0.1510)His+(-0.0246)Arg+(0.0230)Orn
;0.810,0.841,0.811,0.833,0.809,0.765,0.790,0.799,(2.5138)+(0.0047)Gln
+(-0.0198)Arg+(-0.0320)Tyr+(0.0934)Phe+(-0.1651)Trp;0.810,0.835,0.807
,0.801,0.815,0.830,0.792,0.810,(8.9215)+(-0.0095)Asn+(-0.0647)His+(-0
.0366)Cit+(0.0095)Pro+(-0.1068)Trp;0.810,0.831,0.771,0.759,0.757,0.84
0,0.785,0.785,(3.1907)+(0.0362)Ser+(-0.0064)Gly+(0.0067)Gln+(-0.1444)
His+(-0.0114)Tyr;0.810,0.834,0.846,0.855,0.851,0.846,0.811,0.841,(5.8
334)+(-0.0741)Asn+(0.0085)Gln+(-0.0749)Cit+(0.0035)Val+(-0.1482)Trp;0
.810,0.834,0.800,0.803,0.802,0.820,0.776,0.800,(8.2003)+(-0.0290)Asn+
(0.0033)Gly+(-0.0863)His+(0.0128)Lys+(-0.1027)Trp;0.810,0.835,0.767,0
.738,0.741,0.832,0.853,0.791,(4.5499)+(-0.1332)His+(-0.0078)Ala+(0.00
29)Pro+(0.0431)Ile+(0.0548)Phe;0.810,0.843,0.830,0.841,0.826,0.803,0.
827,0.824,(4.2402)+(-0.0048)Ala+(-0.0138)Arg+(-0.0040)Val+(0.0959)Phe
+(-0.1534)Trp;0.810,0.837,0.818,0.824,0.839,0.835,0.745,0.811,(8.4047
)+(-0.0706)Asn+(0.0228)Thr+(-0.0674)Cit+(-0.0008)Arg+(-0.1462)Trp;0.8
10,0.837,0.794,0.784,0.772,0.815,0.849,0.805,(5.1553)+(-0.0091)Ala+(0
.0057)Pro+(-0.0083)Tyr+(0.0634)Ile+(-0.1534)Trp;0.810,0.832,0.778,0.7
63,0.714,0.860,0.889,0.807,(4.4519)+(-0.0104)Ala+(-0.0686)Cit+(-0.047
5)Val+(-0.0090)Lys+(0.1809)Ile;0.810,0.846,0.803,0.806,0.813,0.763,0.
804,0.797,(3.5012)+(0.0028)Pro+(-0.0055)Lys+(-0.0004)Leu+(0.0736)Phe+
(-0.1689)Trp;0.810,0.841,0.798,0.788,0.811,0.828,0.777,0.801,(8.2155)
+(-0.0889)His+(-0.0068)Arg+(0.0067)Tyr+(0.0376)Orn+(-0.1007)Trp;0.810
,0.840,0.764,0.758,0.761,0.804,0.761,0.771,(2.9102)+(0.0256)Ser+(-0.0
251)Val+(0.0133)Orn+(0.0470)Leu+(-0.1597)Trp;0.810,0.838,0.770,0.754,
0.786,0.818,0.742,0.775,(3.7816)+(0.0087)Gly+(-0.1247)His+(-0.0412)Ci
t+(-0.1931)Met+(0.1345)Phe;0.810,0.837,0.740,0.709,0.713,0.817,0.826,
0.766,(5.2126)+(-0.1018)His+(-0.0358)Val+(0.0285)Orn+(-0.0056)Lys+(0.
1264)Ile;0.810,0.834,0.800,0.795,0.829,0.826,0.734,0.796,(7.0608)+(-0

.1089)Cit+(-0.0028)Arg+(-0.0060)Tyr+(0.0563)Orn+(-0.1533)Trp;0.810,0.834,0.827,0.838,0.834,0.849,0.770,0.823,(5.8133)+(0.0045)Gln+(0.0128)Thr+(-0.0039)Ala+(-0.0751)Cit+(-0.1545)Trp;0.810,0.837,0.790,0.779,0.771,0.818,0.838,0.802,(4.7167)+(0.0084)Thr+(-0.0090)Ala+(0.0015)Orn+(0.0656)Ile+(-0.1637)Trp;0.810,0.834,0.782,0.770,0.774,0.819,0.805,0.792,(2.0585)+(0.0116)Gln+(-0.1712)His+(-0.0218)Arg+(-0.0022)Lys+(0.0794)Phe;0.810,0.830,0.774,0.745,0.765,0.837,0.821,0.792,(3.3508)+(0.0103)Gln+(-0.1463)His+(-0.0498)Cit+(-0.0099)Lys+(0.0549)Ile;0.810,0.832,0.795,0.788,0.814,0.824,0.751,0.794,(8.3150)+(0.0054)Gly+(-0.0822)His+(-0.0463)Cit+(0.0110)Val+(-0.1134)Trp;0.810,0.837,0.767,0.761,0.762,0.805,0.766,0.773,(3.0049)+(0.0279)Ser+(-0.0008)Thr+(-0.0227)Val+(0.0463)Leu+(-0.1585)Trp;0.810,0.834,0.731,0.711,0.715,0.785,0.779,0.748,(3.8726)+(0.0042)Gly+(-0.1434)His+(-0.0461)Tyr+(0.0398)Ile+(0.0807)Phe;0.810,0.830,0.767,0.748,0.755,0.808,0.813,0.781,(2.0223)+(0.0088)Gln+(-0.1732)His+(-0.0003)Pro+(-0.0001)Leu+(0.0708)Phe;0.810,0.832,0.771,0.746,0.757,0.830,0.826,0.790,(3.3880)+(0.0091)Gln+(-0.1557)His+(-0.0027)Pro+(-0.0080)Lys+(0.0518)Ile;0.810,0.839,0.809,0.803,0.783,0.828,0.862,0.819,(4.1592)+(0.0039)Gln+(-0.0085)Ala+(-0.0080)Lys+(0.0710)Ile+(-0.1568)Trp;0.810,0.839,0.781,0.771,0.738,0.847,0.853,0.802,(4.8165)+(-0.0034)Arg+(0.0035)Pro+(-0.0546)Val+(-0.2759)Met+(0.1863)Ile;0.810,0.839,0.807,0.806,0.804,0.826,0.803,0.810,(8.7310)+(-0.0709)His+(-0.0030)Ala+(0.0122)Pro+(-0.0356)Met+(-0.0962)Trp;0.810,0.833,0.816,0.813,0.824,0.829,0.797,0.816,(7.5470)+(-0.0068)Ala+(-0.0746)Cit+(0.0134)Pro+(0.0046)Val+(-0.1450)Trp;0.810,0.835,0.780,0.775,0.779,0.792,0.789,0.784,(3.1900)+(0.0405)Ser+(-0.0082)Gly+(-0.0037)Thr+(0.0059)Pro+(-0.1549)Trp;0.810,0.833,0.797,0.799,0.798,0.822,0.775,0.799,(7.9169)+(0.0026)Gly+(-0.0900)His+(-0.0008)Ala+(0.0112)Lys+(-0.1027)Trp;0.810,0.831,0.751,0.722,0.728,0.834,0.813,0.774,(5.1959)+(0.0028)Gly+(-0

.1357)His+(0.0115)Thr+(-0.0069)Ala+(0.0587)Ile;0.810,0.838,0.789,0.774,0.800,0.823,0.780,0.794,(7.9606)+(0.0046)Gly+(-0.0945)His+(-0.0532)Met+(0.0282)Leu+(-0.1060)Trp;0.810,0.840,0.763,0.739,0.769,0.850,0.750,0.777,(4.2815)+(0.0440)Ser+(-0.0046)Gly+(-0.1190)His+(-0.1218)Met+(0.0321)Orn;0.810,0.833,0.765,0.741,0.715,0.860,0.861,0.795,(3.2241)+(-0.0123)Ala+(-0.1038)Cit+(-0.0504)Val+(0.0454)Orn+(0.1707)Ile;0.810,0.833,0.797,0.788,0.824,0.816,0.750,0.795,(6.9449)+(0.0175)Thr+(-0.0814)Cit+(-0.0084)Lys+(0.0195)Leu+(-0.1698)Trp;0.810,0.829,0.732,0.690,0.740,0.822,0.762,0.754,(3.5987)+(0.0483)Ser+(-0.0043)Gly+(-0.1445)His+(-0.0096)Lys+(0.0242)Leu;0.809,0.843,0.829,0.842,0.819,0.799,0.835,0.824,(4.8412)+(-0.0533)Asn+(-0.0040)Ala+(-0.0191)Tyr+(0.0965)Phe+(-0.1430)Trp;0.809,0.846,0.821,0.834,0.828,0.777,0.803,0.810,(2.6033)+(0.0043)Gln+(-0.0214)Arg+(-0.0025)Lys+(0.0790)Phe+(-0.1738)Trp;0.809,0.836,0.757,0.736,0.759,0.853,0.739,0.771,(4.6897)+(0.0388)Ser+(-0.0657)Asn+(-0.1190)His+(-0.0025)Ala+(0.0312)Orn;0.809,0.833,0.791,0.770,0.794,0.818,0.823,0.801,(8.1790)+(-0.0941)His+(0.0147)Tyr+(-0.0178)Val+(0.0510)Leu+(-0.1132)Trp;0.809,0.830,0.770,0.758,0.703,0.861,0.877,0.800,(3.3112)+(0.0023)Gly+(-0.0115)Ala+(-0.0758)Cit+(-0.0486)Val+(0.1781)Ile;0.809,0.838,0.741,0.703,0.756,0.832,0.743,0.759,(3.0505)+(0.0486)Ser+(-0.1349)His+(0.0148)Ty

r+(-0.1878)Met+(0.0299)Leu;0.809,0.836,0.815,0.824,0.832,0.830,0.746,0.808,(7.2661)+(-0.0436)Asn+(0.0262)Thr+(0.0153)Tyr+(-0.1570)Met+(-0.1428)Trp;0.809,0.835,0.804,0.794,0.794,0.822,0.839,0.812,(5.7006)+(-0.0056)Ala+(-0.1364)Met+(0.0120)Orn+(0.0706)Ile+(-0.1400)Trp;0.809,0.837,0.786,0.783,0.782,0.842,0.763,0.792,(4.3170)+(0.0093)Gln+(-0.1370)His+(0.0213)Thr+(0.0079)Pro+(-0.1970)Met;0.809,0.835,0.807,0.803,0.827,0.814,0.768,0.803,(5.1198)+(0.0040)Gln+(0.0094)Thr+(-0.0848)Cit+(0.0141)Leu+(-0.1768)Trp;0.809,0.834,0.775,0.764,0.781,0.816,0.764,0.781

,(3.7529)+(0.0070)Gly+(-0.1267)His+(-0.0037)Val+(-0.1960)Met+(0.1353)Phe;0.809,0.842,0.801,0.793,0.812,0.829,0.777,0.803,(8.3213)+(-0.0838)His+(-0.0046)Arg+(-0.0272)Met+(0.0397)Orn+(-0.0956)Trp;0.809,0.832,0.737,0.729,0.730,0.773,0.748,0.745,(4.6559)+(-0.1470)His+(0.0246)Thr+(-0.0547)Tyr+(-0.0065)Lys+(0.1091)Phe;0.809,0.832,0.744,0.728,0.722,0.806,0.787,0.761,(5.6637)+(-0.1140)His+(0.0115)Thr+(-0.0345)Tyr+(0.1074)Ile+(-0.0396)Leu;0.809,0.842,0.755,0.742,0.722,0.843,0.795,0.776,(-0.3319)+(0.0498)Ser+(-0.0067)Gly+(-0.3033)Met+(0.1710)Ile+(-0.0756)Leu;0.809,0.840,0.791,0.793,0.784,0.866,0.746,0.797,(3.1758)+(0.0328)Ser+(0.0090)Gln+(-0.1323)His+(-0.0172)Arg+(-0.0996)Met;0.809,0.834,0.761,0.730,0.741,0.840,0.829,0.785,(5.9121)+(-0.1304)His+(0.0161)Thr+(-0.0068)Ala+(-0.0064)Lys+(0.0602)Ile;0.809,0.832,0.757,0.736,0.746,0.800,0.801,0.771,(2.0570)+(0.0079)Gln+(-0.1766)His+(0.0067)Thr+(-0.0003)Leu+(0.0699)Phe;0.809,0.834,0.805,0.796,0.789,0.826,0.850,0.815,(5.8247)+(-0.0419)Asn+(-0.0074)Ala+(0.0109)Orn+(0.0617)Ile+(-0.1478)Trp;0.809,0.828,0.781,0.778,0.709,0.863,0.881,0.808,(5.1652)+(-0.1091)Asn+(0.0028)Gly+(-0.0073)Ala+(-0.0540)Val+(0.1795)Ile;0.809,0.842,0.825,0.832,0.835,0.787,0.815,0.817,(3.9921)+(-0.0030)Arg+(-0.1960)Met+(0.0027)Leu+(0.1091)Phe+(-0.1441)Trp;0.809,0.840,0.822,0.832,0.819,0.799,0.819,0.817,(3.9834)+(0.0012)Gly+(-0.0055)Ala+(-0.0147)Arg+(0.0915)Phe+(-0.1583)Trp;0.809,0.836,0.781,0.778,0.780,0.798,0.780,0.784,(3.6567)+(0.0417)Ser+(-0.0087)Gly+(0.0062)Pro+(-0.0070)Lys+(-0.1490)Trp;0.809,0.845,0.808,0.811,0.818,0.766,0.806,0.800,(3.5529)+(0.0001)Gly+(-0.0052)Lys+(0.0008)Leu+(0.0750)Phe+(-0.1683)Trp;0.809,0.839,0.812,0.827,0.801,0.782,0.817,0.807,(3.7780)+(0.0001)Gly+(-0.0049)Ala+(-0.0235)Tyr+(0.0946)Phe+(-0.1539)Trp;0.809,0.835,0.852,0.860,0.857,0.854,0.818,0.848,(5.9745)+(-0.0783)Asn+(0.0085)Gln+(-0.0724)Cit+(0.0081)Tyr+(-0.1447)Trp;0.809,0.832,0.745,0.722,0.747,0.846,0.731,0.761,(4.2391)+(0

.0336)Ser+(-0.1313)His+(-0.0028)Ala+(0.0298)Orn+(-0.0036)Lys;0.809,0.832,0.758,0.738,0.747,0.801,0.802,0.772,(2.0703)+(0.0080)Gln+(-0.1768)His+(0.0071)Thr+(-0.0012)Pro+(0.0711)Phe;0.809,0.828,0.755,0.725,0.744,0.818,0.810,0.774,(3.1415)+(0.0078)Gln+(-0.1650)His+(0.0053)Thr+(-0.0035)Pro+(0.0468)Ile;0.809,0.830,0.739,0.703,0.747,0.822,0.762,0.758,(3.9160)+(0.0493)Ser+(-0.0607)Asn+(-0.0033)Gly+(-0.1359)His+(0.0200)Leu;0.809,0.840,0.790,0.781,0.791,0.803,0.804,0.795,(5.8463)+(-0.0729)Asn+(0.0152)Thr+(-0.0052)Lys+(0.0502)Ile+(-0.1580)Trp;0.809,0.833,0.781,0.770,0.773,0.819,0.804,0.791,(2.0025)+(0.0116)Gln+(-0.1720)His+(-0.0231)Arg+(-0.0014)Leu+(0.0795)Phe;0.809,0.836,0.790,0.788,0.784,0.866,0.750,0.797,(3.1735)+(0.0320)Ser+(0.0081)Gln+(-0.1243)His+(-0.0331)Cit+(-0.1193)Met;0.809,0.839,0.803,0.802,0.800,0.819,0.798,0.805,(7.2879)+(-0.1072)Asn+(0.0234)Thr+(-0.0325)Val+(0.0607)Leu+(-0.1390)Trp;0.809,0.831,0.730,0.690,0.739,0.826,0.747,0.750,(3.5888)+(0.0405)Ser+(-0.0047)Gly+(-0.1425)His+(0.0047)Pro+(0.0208)Orn;0.809,0.831,0.770,0.759,0.763,0.816,0.781,0.780,(1.7102)+(0.0029)Gly+(0.0109)Gln+(-0.1738)His+(-0.0241)Arg+(0.0819)Phe;0.809,0.836,0.847,0.859,0.849,0.847,0.812,0.842,(5.9038)+(-0.0815)Asn+(0.0083)Gln+(-0.0704)Cit+(0.0038)Lys+(-0.1442)Trp;0.809,0.844,0.821,0.826,0.816,0.803,0.832,0.819,(3.8128)+(-0.0061)Ala+(0.0127)Orn+(-0.0040)Lys+(0.0790)Phe+(-0.1561)Trp;0.809,0.835,0.798,0.790,0.779,0.818,0.848,0.809,(5.5482)+(-0.0091)Ala+(-0.0121)Arg+(0.0063)Pro+(0.0638)Ile+(-0.1521)Trp;0.809,0.831,0.721,0.674,0.731,0.820,0.754,0.745,(3.1616)+(0.0421)Ser+(-0.0041)Gly+(-0.1533)His+(0.0169)Orn+(0.0156)Leu;0.809,0.831,0.748,0.727,0.746,0.836,0.744,0.763,(2.7267)+(0.0289)Ser+(0.0052)Gln+(-0.1524)His+(-0.0040)Thr+(0.0205)Orn;0.809,0.832,0.767,0.751,0.733,0.838,0.829,0.788,(3.8674)+(0.0083)Gln+(-0.1185)His+(-0.0251)Arg+(-0.0318)Val+(0.1225)Ile;0.809,0.829,0.739,0.713,0.704,0.819,0.824,0.765,(5.1335)+(-0.1094)His+(0.0100

)Thr+(-0.0032)Pro+(-0.0339)Val+(0.1274)Ile;0.809,0.831,0.771,0.758,0.705,0.860,0.880,0.801,(3.4564)+(0.0044)Thr+(-0.0117)Ala+(-0.0740)Cit+(-0.0495)Val+(0.1780)Ile;0.809,0.830,0.777,0.775,0.768,0.857,0.746,0.786,(3.1827)+(0.0307)Ser+(0.0082)Gln+(-0.1433)His+(-0.0014)Ala+(-0.0216)Arg;0.809,0.826,0.738,0.719,0.723,0.844,0.746,0.758,(3.9255)+(0.0375)Ser+(-0.1278)His+(-0.0002)Thr+(-0.0056)Ala+(0.0116)Pro;0.809,0.841,0.815,0.831,0.814,0.771,0.808,0.806,(4.7411)+(-0.0586)Asn+(-0.0266)Tyr+(-0.0011)Leu+(0.0936)Phe+(-0.1463)Trp;0.809,0.836,0.743,0.712,0.755,0.829,0.736,0.758,(3.5145)+(0.0484)Ser+(-0.0199)Asn+(-0.1299)His+(-0.1460)Met+(0.0296)Leu;0.809,0.832,0.709,0.670,0.717,0.797,0.730,0.729,(0.8305)+(0.0447)Ser+(-0.1608)His+(-0.0353)Cit+(0.0015)Pro+(0.0919)Phe;0.809,0.828,0.738,0.714,0.736,0.826,0.740,0.754,(2.3505)+(0.0304)Ser+(0.0056)Gln+(-0.1600)His+(0.0042)Pro+(0.0035)Val;0.809,0.838,0.744,0.720,0.755,0.836,0.717,0.757,(3.6477)+(0.0457)Ser+(-0.1219)His+(0.0111)Pro+(0.0054)Val+(-0.1673)Met;0.809,0.832,0.754,0.719,0.738,0.834,0.826,0.779,(5.3962)+(-0.1373)His+(0.0114)Thr+(-0.0071)Ala+(0.0170)Orn+(0.0526)Ile;0.809,0.835,0.771,0.756,0.780,0.810,0.760,0.777,(3.7090)+(0.0072)Gly+(-0.1307)His+(-0.0010)Arg+(-0.1981)Met+(0.1297)Phe;0.809,0.832,0.798,0.781,0.802,0.824,0.817,0.806,(8.4141)+(0.0049)Asn+(-0.0929)His+(-0.0021)Ala+(0.0261)Leu+(-0.1099)Trp;0.809,0.836,0.816,0.837,0.827,0.834,0.725,0.805,(5.4112)+(0.0055)Gln+(0.0266)Thr+(-0.0178)Arg+(-0.1842)Met+(-0.1439)Trp;0.809,0.834,0.747,0.726,0.729,0.810,0.796,0.765,(5.6126)+(-0.1095)His+(-0.0340)Tyr+(0.0272)Orn+(0.1102)Ile+(-0.0457)Leu;0.809,0.837,0.792,0.785,0.779,0.819,0.819,0.801,(5.3825)+(0.0158)Thr+(-0.0086)Ala+(-0.0199)Arg+(0.0678)Ile+(-0.1627)Trp;0.809,0.830,0.747,0.729,0.742,0.837,0.742,0.762,(2.8348)+(0.0309)Ser+(0.0058)Gln+(-0.1492)His+(0.0059)Pro+(-0.0054)Lys;0.809,0.835,0.834,0.836,0.844,0.837,0.807,0.831,(4.9681)+(0.0072)Gln+(-0.0714)Cit+(-0.1167)Met

+(0.0189)Leu+(-0.1539)Trp;0.809,0.828,0.733,0.700,0.721,0.836,0.771,0.757,(3.4928)+(0.0391)Ser+(-0.1397)His+(-0.0037)Ala+(-0.0158)Val+(0.0470)Leu;0.809,0.829,0.758,0.740,0.746,0.805,0.797,0.772,(1.8312)+(0.0020)Gly+(0.0083)Gln+(-0.1741)His+(-0.0000)Leu+(0.0728)Phe;0.809,0.834,0.785,0.780,0.725,0.836,0.885,0.807,(2.8696)+(-0.1757)Asn+(0.0039)Gln+(-0.0602)Val+(0.1604)Ile+(0.0607)Phe;0.809,0.829,0.764,0.743,0.728,0.832,0.844,0.787,(6.6304)+(-0.0559)Asn+(-0.0699)His+(-0.0320)Cit+(-0.0398)Val+(0.1423)Ile;0.809,0.828,0.746,0.725,0.741,0.832,0.747,0.761,(2.3844)+(0.0308)Ser+(0.0061)Gln+(-0.1597)His+(-0.0025)Thr+(0.0054)Val;0.809,0.834,0.755,0.726,0.762,0.843,0.755,0.771,(4.5520)+(0.0447)Ser+(-0.0667)Asn+(-0.0041)Gly+(-0.1227)His+(0.0285)Orn;0.809,0.830,0.837,0.845,0.845,0.842,0.795,0.832,(5.1962)+(0.0072)Gln+(-0.0706)Cit+(0.0055)Val+(-0.1001)Met+(-0.1482)Trp;0.809,0.833,0.793,0.776,0.802,0.805,0.811,0.798,(8.1577)+(-0.0088)Asn+(-0.0963)His+(0.0070)Lys+(0.0206)Leu+(-0.1145)Trp;0.809,0.827,0.735,0.709,0.701,0.811,0.820,0.760,(5.0385)+(-0.1078)His+(0.0088)Thr+(-0.0331)Val+(0.1267)Ile+(-0.0037)Leu;0.809,0.839,0.753,0.744,0.729,0.843,0.766,0.770,(0.1400)+(0.0439)Ser+(-0.0528)Asn+(-0.2579)Met+(0.1642)Ile+(-0.0724)Leu;0.809,0.833,0.741,0.713,0.719,0.818,0.807,0.764,(5.6408)+(-0.0959)His+(-0.0203)Arg+(-0.0398)Val+(0.0340)Orn+(0.1340)Ile;0.809,0.845,0.829,0.835,0.840,0.791,0.816,0.820,(4.0152)+(-0.0033)Arg+(0.0049)Tyr+(-0.2008)Met+(0.1103)Phe+(-0.1434)Trp;0.809,0.839,0.754,0.737,0.762,0.849,0.713,0.765,(4.1078)+(0.0376)Ser+(-0.1220)His+(-0.1311)Met+(0.0304)Orn+(0.0026)Lys;0.809,0.837,0.769,0.776,0.781,0.806,0.697,0.765,(3.3901)+(0.0307)Ser+(-0.0245)Arg+(0.0056)Pro+(0.0152)Orn+(-0.1527)Trp;0.809,0.840,0.819,0.828,0.817,0.799,0.814,0.815,(4.1888)+(-0.0059)Ala+(-0.0178)Arg+(0.0170)Orn+(0.0813)Phe+(-0.1560)Trp;0.809,0.838,0.789,0.780,0.791,0.796,0.804,0.793,(5.6834)+(-0.0812)Asn+(0.0002)Gly+(0.0137)Thr+(0.0471)Ile+(-0.

1605)Trp;0.809,0.837,0.782,0.782,0.774,0.795,0.789,0.785,(6.0059)+(-0.0754)Asn+(0.0164)Thr+(-0.0227)Tyr+(0.0509)Ile+(-0.1539)Trp;0.809,0.837,0.822,0.825,0.827,0.833,0.797,0.820,(8.0179)+(-0.0051)Ala+(-0.0636)Cit+(0.0148)Pro+(-0.0571)Met+(-0.1301)Trp;0.809,0.831,0.740,0.715,0.741,0.832,0.737,0.756,(2.5449)+(0.0286)Ser+(0.0051)Gln+(-0.1598)His+(0.0031)Val+(0.0155)Orn;0.809,0.836,0.778,0.744,0.789,0.809,0.823,0.791,(4.4637)+(-0.1148)His+(-0.0310)Cit+(-0.2164)Met+(0.0484)Ile+(0.0951)Phe;0.809,0.831,0.751,0.731,0.740,0.797,0.791,0.765,(1.8987)+(0.0016)Gly+(0.0076)Gln+(-0.1769)His+(0.0060)Thr+(0.0717)Phe;0.809,0.838,0.749,0.728,0.757,0.845,0.719,0.762,(3.8552)+(0.0448)Ser+(-0.1161)His+(0.0120)Pro+(0.0097)Tyr+(-0.1738)Met;0.809,0.834,0.807,0.798,0.795,0.823,0.845,0.815,(5.8313)+(-0.0054)Ala+(-0.1338)Met+(0.0014)Lys+(0.0736)Ile+(-0.1410)Trp;0.809,0.830,0.785,0.784,0.713,0.859,0.885,0.810,(5.7285)+(-0.0951)Asn+(-0.0069)Ala+(-0.0137)Tyr+(-0.0530)Val+(0.1783)Ile;0.809,0.828,0.734,0.709,0.730,0.821,0.747,0.752,(2.3246)+(0.0318)Ser+(0.0055)Gln+(-0.1616)His+(-0.0164)Tyr+(0.0206)Leu;0.809,0.839,0.775,0.748,0.774,0.805,0.824,0.788,(4.4835)+(-0.1212)His+(-0.0209)Tyr+(-0.1957)Met+(0.0486)Ile+(0.1000)Phe;0.809,0.838,0.815,0.812,0.806,0.814,0.840,0.818,(4.3673)+(-0.0804)Asn+(0.0057)Gln+(-0.0038)Lys+(0.0503)Ile+(-0.1577)Trp;0.809,0.838,0.789,0.780,0.792,0.798,0.804,0.793,(5.6732)+(-0.0816)Asn+(0.0134)Thr+(0.0025)Orn+(0.0462)Ile+(-0.1604)Trp;0.808,0.831,0.764,0.734,0.745,0.838,0.833,0.787,(6.1398)+(-0.0346)Asn+(-0.1284)His+(0.0173)Thr+(-0.0067)Ala+(0.0559)Ile;0.808,0.827,0.732,0.706,0.699,0.812,0.815,0.758,(4.9394)+(0.0008)Gly+(-0.1095)His+(0.0085)Thr+(-0.0337)Val+(0.1235)Ile;0.808,0.834,0.783,0.769,0.748,0.845,0.849,0.803,(6.2158)+(-0.0924)His+(-0.0069)Ala+(-0.0097)Arg+(0.1328)Ile+(-0.0525)Leu;0.808,0.837,0.815,0.813,0.806,0.812,0.842,0.819,(4.2897)+(-0.0864)Asn+(0.0056)Gln+(-0.0012)Pro+(0.0491)Ile+(-0.1598)Trp;0.808,0.

837,0.810,0.803,0.818,0.829,0
.794,0.811,(8.8915)+(-0.0626)His+(-0.0348)Cit+(0.0105)Pro+(-0.0358)Me
t+(-0.1042)Trp;0.808,0.835,0.784,0.784,0.788,0.801,0.763,0.784,(3.968
8)+(0.0428)Ser+(-0.0081)Gly+(-0.0206)Arg+(0.0073)Pro+(-0.1522)Trp;0.8
08,0.837,0.751,0.732,0.765,0.845,0.707,0.762,(4.2394)+(0.0449)Ser+(-0
.1067)His+(-0.0313)Cit+(0.0131)Pro+(-0.1596)Met;0.808,0.834,0.762,0.7
31,0.752,0.827,0.814,0.781,(3.3738)+(0.0084)Gln+(-0.1564)His+(0.0120)
Orn+(-0.0091)Lys+(0.0455)Ile;0.808,0.834,0.802,0.781,0.808,0.828,0.82
5,0.810,(8.3400)+(-0.0947)His+(-0.0029)Ala+(0.0164)Tyr+(0.0252)Leu+(-
0.1148)Trp;0.808,0.839,0.760,0.742,0.768,0.851,0.722,0.771,(4.5032)+(
0.0405)Ser+(-0.0410)Asn+(-0.1150)His+(-0.0938)Met+(0.0322)Orn;0.808,0
.833,0.788,0.771,0.788,0.812,0.816,0.797,(8.0873)+(-0.0940)His+(-0.01
59)Val+(0.0055)Lys+(0.0470)Leu+(-0.1118)Trp;0.808,0.830,0.807,0.822,0
.820,0.812,0.738,0.798,(6.8263)+(-0.0024)Gly+(0.0254)Thr+(-0.1782)Met
+(0.0039)Lys+(-0.1453)Trp;0.808,0.839,0.779,0.772,0.781,0.790,0.783,0
.782,(3.1012)+(0.0377)Ser+(-0.0086)Gly+(0.0042)Pro+(0.0089)Orn+(-0.15
94)Trp;0.808,0.836,0.777,0.765,0.784,0.748,0.816,0.778,(2.9747)+(-0.0
000)Gly+(-0.0025)Pro+(0.0432)Ile+(0.0462)Phe+(-0.1850)Trp;0.808,0.842
,0.821,0.825,0.813,0.801,0.839,0.820,(3.8451)+(-0.0062)Ala+(-0.0035)L
ys+(0.0062)Leu+(0.0818)Phe+(-0.1614)Trp;0.808,0.838,0.812,0.810,0.808
,0.819,0.825,0.815,(3.8657)+(0.0062)Gln+(-0.0092)Arg+(-0.1908)Met+(0.
0651)Ile+(-0.1484)Trp;0.808,0.828,0.737,0.704,0.743,0.827,0.746,0.755
,(2.0745)+(0.0330)Ser+(0.0062)Gln+(-0.1607)His+(-0.0392)Cit+(0.0192)L
eu;0.808,0.827,0.756,0.728,0.745,0.817,0.811,0.775,(3.0107)+(0.0011)G
ly+(0.0081)Gln+(-0.1623)His+(-0.0029)Pro+(0.0474)Ile;0.808,0.841,0.80
8,0.824,0.806,0.768,0.797,0.799,(4.6718)+(-0.0640)Asn+(-0.0298)Tyr+(0
.0149)Orn+(0.0847)Phe+(-0.1449)Trp;0.808,0.831,0.728,0.690,0.737,0.82
1,0.739,0.747,(3.6608)+(0.0455)Ser+(-0.0676)Asn+(-0.1367)His+(0.0048)

Pro+(0.0177)Leu;0.808,0.837,0.809,0.800,0.817,0.825,0.804,0.812,(8.49
17)+(-0.0746)His+(0.0088)Pro+(0.0188)Tyr+(-0.0710)Met+(-0.1027)Trp;0.
808,0.836,0.809,0.825,0.827,0.827,0.717,0.799,(7.7289)+(-0.0399)Asn+(
0.0296)Thr+(-0.0108)Arg+(-0.1319)Met+(-0.1369)Trp;0.808,0.835,0.801,0
.797,0.774,0.821,0.850,0.811,(3.9956)+(0.0032)Gln+(-0.0084)Ala+(-0.00
80)Tyr+(0.0667)Ile+(-0.1606)Trp;0.808,0.830,0.768,0.752,0.759,0.844,0
.776,0.783,(3.0204)+(0.0355)Ser+(-0.0049)Gly+(0.0070)Gln+(-0.1446)His
+(-0.0300)Cit;0.808,0.836,0.780,0.776,0.779,0.794,0.783,0.783,(3.4334
)+(0.0386)Ser+(-0.0085)Gly+(0.0059)Pro+(-0.0022)Val+(-0.1543)Trp;0.80
8,0.834,0.806,0.799,0.814,0.815,0.801,0.807,(8.3172)+(-0.0891)His+(0.
0065)Val+(-0.0638)Met+(0.0129)Lys+(-0.1088)Trp;0.808,0.836,0.778,0.77
1,0.779,0.791,0.783,0.781,(3.2984)+(0.0389)Ser+(-0.0084)Gly+(-0.0002)
Gln+(0.0052)Pro+(-0.1575)Trp;0.808,0.836,0.739,0.717,0.723,0.786,0.79
4,0.755,(4.4410)+(-0.1408)His+(-0.0525)Tyr+(0.0222)Orn+(0.0345)Ile+(0
.0741)Phe;0.808,0.832,0.735,0.732,0.735,0.773,0.718,0.739,(5.0356)+(-
0.1487)His+(0.0294)Thr+(-0.0217)Arg+(-0.0600)Tyr+(0.1137)Phe;0.808,0.
831,0.754,0.725,0.741,0.818,0.810,0.774,(5.7852)+(-0.0410)Asn+(-0.114
0)His+(0.0118)Thr+(0.1016)Ile+(-0.0415)Leu;0.808,0.832,0.751,0.716,0.
736,0.836,0.815,0.776,(5.1219)+(0.0036)Gly+(-0.1320)His+(-0.0069)Ala+
(0.0206)Orn+(0.0551)Ile;0.808,0.831,0.735,0.709,0.736,0.828,0.735,0.7
52,(2.5694)+(0.0288)Ser+(0.0048)Gln+(-0.1564)His+(0.0042)Pro+(0.0158)
Orn;0.808,0.832,0.801,0.793,0.810,0.810,0.801,0.803,(8.3301)+(-0.0145
)Asn+(-0.0908)His+(0.0055)Val+(0.0102)Lys+(-0.1102)Trp;0.808,0.843,0.
804,0.812,0.819,0.760,0.788,0.795,(3.8994)+(-0.0184)Arg+(0.0040)Pro+(
-0.0032)Leu+(0.0788)Phe+(-0.1679)Trp;0.808,0.834,0.736,0.706,0.747,0.
832,0.722,0.752,(4.1296)+(0.0408)Ser+(-0.0737)Asn+(-0.1261)His+(0.006
1)Pro+(0.0243)Orn;0.808,0.830,0.768,0.762,0.751,0.851,0.758,0.780,(3.
2252)+(0.0288)Ser+(0.0063)Gln+(-0.1428)His+(-0.0020)Ala+(-0.0026)Lys;

0.808,0.835,0.794,0.804,0.796,0.839,0.734,0.793,(4.0114)+(0.0296)Ser+(-0.0040)Ala+(-0.0202)Arg+(0.0241)Orn+(-0.1406)Trp;0.808,0.837,0.762,0.754,0.759,0.801,0.762,0.769,(3.2594)+(0.0291)Ser+(-0.0010)Gln+(-0.0232)Val+(0.0476)Leu+(-0.1573)Trp;0.808,0.828,0.757,0.726,0.733,0.834,0.831,0.781,(5.5386)+(-0.1333)His+(0.0130)Thr+(-0.0075)Ala+(0.0022)Pro+(0.0548)Ile;0.808,0.825,0.749,0.717,0.740,0.815,0.804,0.769,(2.9777)+(0.0009)Gly+(0.0076)Gln+(-0.1645)His+(0.0040)Thr+(0.0427)Ile;0.808,0.834,0.772,0.742,0.748,0.836,0.854,0.795,(4.8372)+(-0.1296)His+(-0.0070)Ala+(-0.0055)Lys+(0.0481)Ile+(0.0593)Phe;0.808,0.833,0.780,0.767,0.772,0.817,0.804,0.790,(1.9812)+(0.0116)Gln+(-0.1727)His+(-0.0232)Arg+(0.0006)Pro+(0.0771)Phe;0.808,0.832,0.807,0.824,0.815,0.824,0.731,0.798,(6.6021)+(0.0237)Thr+(-0.0016)Ala+(-0.1668)Met+(0.0041)Lys+(-0.1425)Trp;0.808,0.829,0.773,0.751,0.763,0.828,0.811,0.788,(3.1616)+(0.0109)Gln+(-0.1601)His+(-0.0205)Arg+(-0.0019)Pro+(0.0474)Ile;0.808,0.839,0.773,0.762,0.781,0.747,0.807,0.774,(2.8469)+(0.0036)Thr+(-0.0031)Pro+(0.0428)Ile+(0.0455)Phe+(-0.1877)Trp;0.808,0.829,0.764,0.757,0.747,0.849,0.757,0.778,(3.1436)+(0.0280)Ser+(0.0060)Gln+(-0.1450)His+(0.0010)Thr+(-0.0023)Ala;0.808,0.834,0.781,0.763,0.772,0.827,0.814,0.794,(2.3154)+(0.0105)Gln+(-0.1621)His+(-0.0449)Cit+(-0.0083)Lys+(0.0846)Phe;0.808,0.843,0.824,0.831,0.833,0.779,0.815,0.815,(3.6236)+(0.0037)Tyr+(-0.2211)Met+(0.0056)Lys+(0.1077)Phe+(-0.1478)Trp;0.808,0.831,0.763,0.746,0.715,0.821,0.864,0.786,(3.7032)+(-0.1935)Asn+(0.0183)Thr+(-0.0638)Val+(0.1669)Ile+(0.0678)Phe;0.808,0.826,0.740,0.721,0.725,0.844,0.745,0.759,(3.9931)+(0.0377)Ser+(-0.1268)His+(-0.0055)Ala+(0.0116)Pro+(-0.0013)Lys;0.808,0.839,0.755,0.734,0.767,0.852,0.719,0.768,(4.0381)+(0.0390)Ser+(-0.1223)His+(0.0109)Tyr+(-0.1410)Met+(0.0298)Orn;0.808,0.832,0.740,0.712,0.740,0.844,0.739,0.758,(3.8011)+(0.0345)Ser+(-0.1403)His+(-0.0039)Ala+(0.0047)Val+(0.0241)Orn;0.808,0.832,0.791,0.78

2,0.818,0.798,0.753,0.788,(6.3671)+(0.0118)Thr+(-0.0821)Cit+(0.0050)Pro+(0.0126)Leu+(-0.1733)Trp;0.808,0.828,0.763,0.741,0.756,0.824,0.793,0.779,(2.9963)+(0.0018)Gly+(0.0104)Gln+(-0.1602)His+(-0.0214)Arg+(0.0460)Ile;0.808,0.836,0.733,0.717,0.736,0.781,0.737,0.743,(-4.1853)+(0.0584)Ser+(-0.0764)Asn+(-0.3771)Met+(0.0495)Ile+(0.0901)Phe;0.808,0.835,0.772,0.749,0.757,0.830,0.824,0.790,(5.7427)+(0.0328)Asn+(-0.0945)His+(-0.1838)Met+(0.1361)Ile+(-0.0499)Leu;0.808,0.836,0.761,0.753,0.769,0.849,0.703,0.769,(5.1313)+(0.0373)Ser+(-0.0403)Asn+(-0.1121)His+(0.0186)Thr+(-0.1293)Met;0.808,0.835,0.783,0.785,0.770,0.856,0.754,0.791,(2.8997)+(0.0315)Ser+(0.0074)Gln+(-0.1324)His+(-0.1388)Met+(0.0042)Lys;0.808,0.830,0.780,0.774,0.708,0.858,0.890,0.807,(5.4881)+(-0.1022)Asn+(-0.0088)Ala+(0.0067)Pro+(-0.0545)Val+(0.1740)Ile;0.808,0.834,0.799,0.781,0.802,0.824,0.822,0.807,(8.3526)+(-0.0931)His+(-0.0021)Ala+(0.0035)Arg+(0.0262)Leu+(-0.1102)Trp;0.808,0.831,0.724,0.691,0.735,0.826,0.713,0.741,(3.7502)+(0.0354)Ser+(-0.1384)His+(0.0053)Pro+(0.0240)Orn+(-0.0062)Lys;0.808,0.828,0.724,0.686,0.725,0.827,0.749,0.747,(3.5822)+(0.0412)Ser+(-0.1393)His+(-0.0172)Val+(-0.0086)Lys+(0.0498)Leu;0.808,0.833,0.810,0.810,0.787,0.826,0.850,0.818,(4.0711)+(0.0046)Gln+(-0.0082)Ala+(-0.0170)Arg+(0.0679)Ile+(-0.1602)Trp;0.808,0.828,0.749,0.731,0.732,0.808,0.792,0.766,(3.6353)+(0.0072)Gln+(-0.1540)His+(0.0089)Thr+(-0.0322)Tyr+(0.0497)Ile;0.808,0.838,0.787,0.792,0.803,0.795,0.733,0.781,(5.9435)+(0.0246)Thr+(0.0066)Pro+(-0.2181)Met+(0.0136)Leu+(-0.1495)Trp;0.808,0.836,0.794,0.794,0.803,0.814,0.759,0.793,(4.0308)+(0.0405)Ser+(-0.0082)Gly+(-0.0218)Arg+(0.0204)Orn+(-0.1499)Trp;0.808,0.836,0.804,0.797,0.812,0.828,0.790,0.807,(8.6314)+(-0.0678)His+(-0.0389)Cit+(0.0034)Arg+(0.0093)Pro+(-0.1083)Trp;0.808,0.829,0.759,0.741,0.746,0.805,0.797,0.772,(1.8342)+(0.0020)Gly+(0.0083)Gln+(-0.1741)His+(-0.0004)Pro+(0.0733)Phe;0.808,0.831,0.744,0.715,0.760,0.842,0.718

,0.759,(2.8965)+(0.0287)Ser+(0.0052)Gln+(-0.1456)His+(-0.0651)Cit+(0.0375)Orn;0.808,0.829,0.766,0.761,0.765,0.851,0.723,0.775,(3.1594)+(0.0292)Ser+(0.0079)Gln+(-0.1500)His+(0.0060)Thr+(-0.0246)Arg;0.808,0.829,0.776,0.764,0.708,0.864,0.885,0.805,(3.2617)+(0.0010)Gln+(-0.0116)Ala+(-0.0737)Cit+(-0.0489)Val+(0.1773)Ile;0.808,0.838,0.849,0.861,0.850,0.854,0.814,0.845,(6.0191)+(-0.0769)Asn+(0.0085)Gln+(-0.0717)Cit+(0.0021)Arg+(-0.1413)Trp;0.808,0.836,0.778,0.767,0.783,0.748,0.822,0.780,(3.0115)+(-0.0022)Pro+(-0.0050)Orn+(0.0445)Ile+(0.0489)Phe+(-0.1856)Trp;0.808,0.833,0.762,0.740,0.753,0.810,0.806,0.777,(2.0130)+(0.0083)Gln+(-0.1735)His+(-0.0010)Pro+(0.0112)Orn+(0.0672)Phe;0.808,0.828,0.714,0.674,0.717,0.821,0.740,0.738,(3.1782)+(0.0351)Ser+(-0.1470)His+(-0.0204)Val+(0.0220)Orn+(0.0458)Leu;0.808,0.842,0.800,0.806,0.815,0.759,0.785,0.791,(3.7119)+(0.0008)Gly+(-0.0189)Arg+(0.0037)Pro+(0.0770)Phe+(-0.1707)Trp;0.808,0.831,0.810,0.797,0.817,0.830,0.814,0.815,(8.5505)+(-0.0890)His+(-0.0022)Ala+(0.0169)Tyr+(0.0081)Val+(-0.1096)Trp;0.808,0.824,0.728,0.687,0.726,0.816,0.775,0.751,(3.5083)+(0.0444)Ser+(-0.0045)Gly+(-0.1422)His+(-0.0186)Val+(0.0461)Leu;0.808,0.835,0.731,0.691,0.745,0.828,0.735,0.750,(3.7168)+(0.0431)Ser+(-0.0709)Asn+(-0.1385)His+(0.0211)Orn+(0.0172)Leu;0.808,0.827,0.720,0.676,0.728,0.814,0.754,0.743,(3.1267)+(0.0444)Ser+(-0.0041)Gly+(-0.1512)His+(0.0033)Pro+(0.0166)Leu;0.808,0.833,0.788,0.785,0.790,0.798,0.785,0.790,(3.2496)+(0.0387)Ser+(-0.0082)Gly+(-0.0037)Thr+(0.0143)Orn+(-0.1529)Trp;0.807,0.830,0.736,0.710,0.704,0.814,0.820,0.762,(5.3918)+(-0.1042)His+(0.0120)Thr+(-0.0341)Val+(-0.0071)Lys+(0.1287)Ile;0.807,0.840,0.807,0.822,0.795,0.783,0.810,0.802,(3.6968)+(-0.0052)Ala+(-0.0258)Tyr+(0.0127)Orn+(0.0874)Phe+(-0.1524)Trp;0.807,0.834,0.819,0.827,0.833,0.837,0.753,0.813,(5.7515)+(0.0045)Gln+(0.0120)Thr+(-0.0779)Cit+(-0.0044)Lys+(-0.1591)Trp;0.807,0.835,0.798,0.794,0.806,0.826,0.771,0.799,(8.2593)+(0.

0039)Gly+(-0.0898)His+(0.0094)Val+(-0.0313)Met+(-0.1025)Trp;0.807,0.836,0.791,0.788,0.792,0.812,0.779,0.793,(3.7295)+(0.0403)Ser+(-0.0088)Gly+(0.0184)Orn+(-0.0084)Lys+(-0.1459)Trp;0.807,0.828,0.756,0.734,0.725,0.830,0.828,0.779,(3.7194)+(0.0065)Gln+(-0.1167)His+(-0.0445)Cit+(-0.0290)Val+(0.1161)Ile;0.807,0.829,0.771,0.763,0.714,0.823,0.875,0.794,(3.5972)+(-0.1448)Asn+(-0.0537)Val+(0.1768)Ile+(-0.0217)Leu+(0.0660)Phe;0.807,0.838,0.749,0.726,0.762,0.844,0.715,0.762,(3.8280)+(0.0406)Ser+(-0.1282)His+(0.0058)Val+(-0.1363)Met+(0.0269)Orn;0.807,0.828,0.765,0.742,0.746,0.834,0.816,0.784,(3.1462)+(0.0084)Gln+(-0.1298)His+(-0.0528)Cit+(0.1072)Ile+(-0.

0423)Leu;0.807,0.844,0.826,0.832,0.837,0.786,0.819,0.818,(3.8686)+(0.0042)Tyr+(-0.2078)Met+(0.0027)Leu+(0.1077)Phe+(-0.1452)Trp;0.807,0.840,0.804,0.800,0.808,0.820,0.794,0.805,(8.5672)+(-0.0733)His+(0.0008)Arg+(0.0099)Pro+(-0.0481)Met+(-0.0979)Trp;0.807,0.845,0.723,0.698,0.743,0.784,0.705,0.733,(-4.3275)+(0.0557)Ser+(-0.0871)Cit+(-0.4329)Met+(0.0583)Ile+(0.1016)Phe;0.807,0.832,0.810,0.809,0.814,0.821,0.794,0.809,(8.3831)+(-0.0823)His+(0.0001)Ala+(-0.0604)Met+(0.0146)Lys+(-0.1025)Trp;0.807,0.828,0.757,0.726,0.749,0.819,0.815,0.777,(3.0999)+(0.0080)Gln+(-0.1633)His+(-0.0033)Pro+(0.0093)Orn+(0.0446)Ile;0.807,0.839,0.848,0.853,0.858,0.856,0.811,0.844,(5.2385)+(0.0073)Gln+(-0.0667)Cit+(0.0253)Tyr+(-0.1321)Met+(-0.1460)Trp;0.807,0.835,0.839,0.853,0.843,0.850,0.787,0.834,(5.3869)+(0.0008)Gly+(0.0072)Gln+(-0.0655)Cit+(-0.0930)Met+(-0.1392)Trp;0.807,0.830,0.740,0.707,0.745,0.831,0.752,0.758,(3.8931)+(0.0399)Ser+(-0.0047)Gly+(-0.1390)His+(-0.0010)Thr+(0.0249)Orn;0.807,0.833,0.765,0.774,0.764,0.796,0.725,0.765,(3.1574)+(0.0293)Ser+(-0.0035)Thr+(0.0068)Pro+(-0.0147)Tyr+(-0.1479)Trp;0.807,0.834,0.731,0.688,0.732,0.792,0.795,0.752,(4.3890)+(-0.1531)His+(0.0168)Thr+(-0.0122)Lys+(0.0355)Ile+(0.0598)Phe;0.807,0.832,0.754,0.722,0.744,0.822,

0.812,0.775,(5.5315)+(-0.0291)Asn+(-0.1107)His+(0.0235)Orn+(0.1042)Ile+(-0.0469)Leu;0.807,0.834,0.761,0.770,0.670,0.825,0.880,0.786,(1.6928)+(-0.0098)Ala+(-0.0459)Tyr+(-0.0527)Val+(0.1656)Ile+(0.0620)Phe;0.807,0.828,0.762,0.745,0.723,0.829,0.842,0.785,(6.5813)+(-0.0493)Asn+(-0.0749)His+(-0.0080)Arg+(-0.0405)Val+(0.1424)Ile;0.807,0.834,0.767,0.750,0.737,0.862,0.810,0.790,(1.2060)+(0.0426)Ser+(-0.1221)Asn+(-0.0116)Ala+(-0.0876)Cit+(0.0673)Ile;0.807,0.833,0.812,0.828,0.821,0.823,0.741,0.803,(7.1435)+(-0.0023)Gly+(0.0269)Thr+(-0.0015)Ala+(-0.1590)Met+(-0.1406)Trp;0.807,0.834,0.802,0.803,0.794,0.826,0.799,0.806,(4.0941)+(0.0366)Ser+(-0.0077)Gly+(0.0030)Thr+(-0.0034)Ala+(-0.1459)Trp;0.807,0.834,0.771,0.759,0.777,0.809,0.764,0.777,(3.7719)+(0.0070)Gly+(-0.1300)His+(-0.0068)Tyr+(-0.1898)Met+(0.1311)Phe;0.807,0.825,0.736,0.706,0.710,0.819,0.810,0.761,(5.3110)+(-0.1011)His+(0.0107)Thr+(-0.0384)Cit+(-0.0340)Val+(0.1266)Ile;0.807,0.832,0.802,0.819,0.815,0.812,0.723,0.792,(6.4828)+(0.0235)Thr+(0.0000)Val+(-0.1775)Met+(0.0040)Lys+(-0.1444)Trp;0.807,0.829,0.800,0.816,0.821,0.812,0.706,0.789,(6.8741)+(0.0274)Thr+(-0.0169)Arg+(-0.1767)Met+(0.0074)Lys+(-0.1442)Trp;0.807,0.837,0.801,0.784,0.811,0.811,0.813,0.805,(8.1981)+(-0.0919)His+(-0.0736)Met+(0.0106)Lys+(0.0220)Leu+(-0.1114)Trp;0.807,0.832,0.794,0.776,0.802,0.812,0.813,0.801,(8.2506)+(-0.0003)Asn+(-0.0953)His+(0.0025)Arg+(0.0242)Leu+(-0.1119)Trp;0.807,0.827,0.786,0.783,0.715,0.863,0.888,0.812,(5.3823)+(-0.0951)Asn+(-0.0075)Ala+(-0.0476)Val+(0.1912)Ile+(-0.0196)Leu;0.807,0.833,0.746,0.757,0.753,0.778,0.680,0.742,(-2.7777)+(0.0506)Ser+(-0.1007)Asn+(0.0145)Thr+(-0.3536)Met+(0.1115)Phe;0.807,0.836,0.766,0.764,0.758,0.803,0.763,0.772,(3.2128)+(0.0277)Ser+(-0.0097)Tyr+(-0.0220)Val+(0.0464)Leu+(-0.1554)Trp;0.807,0.841,0.725,0.701,0.727,0.790,0.741,0.740,(-4.4425)+(0.0544)Ser+(-0.4013)Met+(-0.0172)Lys+(0.0642)Ile+(0.0953)Phe;0.807,0.832,0.771,0.769,0.696,0.835,0.885,0.79

6,(2.2301)+(-0.0104)Ala+(-0.0273)Arg+(-0.0588)Val+(0.1807)Ile+(0.0545)Phe;0.807,0.836,0.809,0.813,0.795,0.810,0.829,0.812,(4.4756)+(-0.0801)Asn+(0.0056)Gln+(-0.0158)Tyr+(0.0502)Ile+(-0.1543)Trp;0.807,0.832,0.749,0.730,0.758,0.844,0.715,0.762,(4.4831)+(0.0359)Ser+(-0.1288)His+(-0.0028)Ala+(-0.0176)Arg+(0.0328)Orn;0.807,0.830,0.771,0.758,0.755,0.824,0.803,0.785,(3.5244)+(0.0107)Gln+(-0.1511)His+(-0.0195)Arg+(-0.0236)Tyr+(0.0507)Ile;0.807,0.833,0.806,0.816,0.824,0.817,0.734,0.798,(6.2899)+(0.0231)Thr+(0.0177)Tyr+(-0.2029)Met+(0.0040)Lys+(-0.1494)Trp;0.807,0.832,0.762,0.740,0.753,0.809,0.804,0.776,(2.0177)+(0.0082)Gln+(-0.1727)His+(0.0113)Orn+(-0.0019)Leu+(0.0683)Phe;0.807,0.840,0.799,0.804,0.817,0.761,0.778,0.790,(3.8474)+(-0.0207)Arg+(0.0029)Pro+(0.0113)Orn+(0.0704)Phe+(-0.1695)Trp;0.807,0.833,0.795,0.773,0.807,0.817,0.815,0.803,(8.2227)+(-0.0007)Asn+(-0.0966)His+(0.0104)Tyr+(0.0231)Leu+(-0.1150)Trp;0.807,0.832,0.803,0.806,0.795,0.831,0.796,0.807,(4.2408)+(0.0395)Ser+(-0.0077)Gly+(-0.0027)Ala+(-0.0035)Lys+(-0.1398)Trp;0.807,0.838,0.768,0.763,0.772,0.787,0.764,0.771,(0.2350)+(0.0389)Thr+(-0.0546)Val+(-0.4663)Met+(0.0780)Leu+(0.1230)Phe;0.807,0.824,0.738,0.714,0.703,0.814,0.821,0.763,(5.0315)+(0.0019)Gly+(-0.1007)His+(-0.0317)Val+(0.1321)Ile+(-0.0083)Leu;0.807,0.830,0.757,0.748,0.748,0.842,0.743,0.770,(3.1318)+(0.0288)Ser+(0.0062)Gln+(-0.1473)His+(0.0012)Thr+(-0.0041)Lys;0.807,0.829,0.736,0.731,0.725,0.769,0.747,0.743,(4.3971)+(-0.1455)His+(0.0220)Thr+(-0.0541)Tyr+(-0.0043)Val+(0.1110)Phe;0.807,0.828,0.748,0.735,0.661,0.853,0.888,0.784,(0.7001)+(0.0329)Ser+(-0.0087)Gly+(-0.0115)Ala+(-0.0530)Val+(0.1747)Ile;0.807,0.832,0.804,0.818,0.811,0.829,0.734,0.798,(6.4093)+(0.0216)Thr+(-0.0023)Ala+(-0.1586)Met+(0.0192)Orn+(-0.1391)Trp;0.807,0.839,0.816,0.831,0.817,0.773,0.805,0.806,(4.8585)+(-0.0515)Asn+(-0.0072)Arg+(-0.0249)Tyr+(0.0943)Phe+(-0.1475)Trp;0.807,0.838,0.796,0.813,0.794,0.747,0.789,0.786,(3.6371)+(-0.

0004)Gly+(-0.0340)Tyr+(-0.0009)Leu+(0.0904)Phe+(-0.1596)Trp;0.807,0.834,0.778,0.772,0.755,0.801,0.827,0.789,(0.3951)+(-0.0084)Asn+(-0.3152)Met+(0.1731)Ile+(-0.0957)Leu+(0.1053)Phe;0.807,0.836,0.787,0.781,0.764,0.815,0.828,0.797,(4.9131)+(0.0100)Thr+(-0.0084)Ala+(-0.0119)Tyr+(0.0668)Ile+(-0.1604)Trp;0.807,0.835,0.789,0.788,0.791,0.802,0.782,0.791,(3.4843)+(0.0367)Ser+(-0.0084)Gly+(-0.0019)Val+(0.0141)Orn+(-0.1527)Trp;0.807,0.835,0.845,0.860,0.845,0.856,0.795,0.839,(5.5207)+(0.0073)Gln+(-0.0012)Ala+(-0.0643)Cit+(-0.0829)Met+(-0.1375)Trp;0.807,0.834,0.815,0.826,0.826,0.838,0.745,0.809,(6.6519)+(0.0248)Thr+(-0.0022)Ala+(0.0206)Tyr+(-0.1834)Met+(-0.1450)Trp;0.807,0.834,0.769,0.776,0.778,0.808,0.701,0.766,(3.5945)+(0.0313)Ser+(0.0017)Thr+(-0.0225)Arg+(0.0068)Pro+(-0.1517)Trp;0.807,0.836,0.792,0.783,0.784,0.813,0.815,0.799,(3.2935)+(0.0386)Ser+(-0.0070)Gly+(-0.0049)Ala+(0.0158)Leu+(-0.1550)Trp;0.807,0.834,0.727,0.713,0.722,0.769,0.743,0.737,(4.1636)+(-0.1515)His+(0.0190)Thr+(-0.0591)Tyr+(0.0214)Orn+(0.0982)Phe;0.807,0.830,0.766,0.758,0.710,0.826,0.857,0.788,(3.3192)+(-0.1650)Asn+(0.0042)Gly+(-0.0608)Val+(0.1644)Ile+(0.0668)Phe;0.807,0.836,0.744,0.710,0.754,0.827,0.754,0.761,(3.3903)+(0.0514)Ser+(-0.0031)Gly+(-0.1312)His+(-0.1587)Met+(0.0295)Leu;0.807,0.832,0.794,0.784,0.775,0.815,0.845,0.805,(4.8581)+(0.0004)Gly+(-0.0085)Ala+(0.0061)Orn+(0.0652)Ile+(-0.1572)Trp;0.807,0.832,0.792,0.774,0.793,0.817,0.818,0.801,(8.4643)+(-0.0059)Asn+(-0.0883)His+(-0.0169)Val+(0.0508)Leu+(-0.1075)Trp;0.807,0.829,0.717,0.677,0.730,0.820,0.724,0.738,(3.4889)+(0.0403)Ser+(-0.1501)His+(0.0050)Thr+(-0.0103)Lys+(0.0250)Leu;0.807,0.833,0.810,0.806,0.826,0.811,0.788,0.808,(5.0058)+(0.0048)Gln+(-0.0857)Cit+(0.0058)Pro+(0.0116)Leu+(-0.1719)Trp;0.807,0.826,0.743,0.724,0.737,0.828,0.744,0.758,(2.5128)+(0.0313)Ser+(0.0057)Gln+(-0.1520)His+(-0.0039)Thr+(0.0059)Pro;0.807,0.827,0.746,0.731,0.739,0.830,0.738,0.759,(2.6258)+(0.0298)Ser+(0.0061)

Gln+(-0.1564)His+(-0.0133)Tyr+(0.0065)Val;0.807,0.844,0.822,0.830,0.834,0.773,0.813,0.813,(4.8325)+(-0.0612)Asn+(-0.0111)Arg+(0.0034)Lys+(0.0794)Phe+(-0.1578)Trp;0.807,0.828,0.716,0.673,0.728,0.820,0.729,0.737,(3.2687)+(0.0422)Ser+(-0.1472)His+(0.0037)Pro+(-0.0094)Lys+(0.0224)Leu;0.807,0.829,0.809,0.809,0.809,0.818,0.802,0.809,(8.5704)+(-0.0221)Asn+(-0.0826)His+(-0.0006)Ala+(0.0127)Lys+(-0.1033)Trp;0.807,0.831,0.753,0.729,0.745,0.802,0.797,0.768,(2.0334)+(0.0076)Gln+(-0.1764)His+(0.0056)Thr+(0.0085)Orn+(0.0665)Phe;0.807,0.830,0.760,0.741,0.760,0.792,0.787,0.770,(5.2858)+(-0.0791)Asn+(-0.1326)His+(0.0233)Thr+(-0.0102)Val+(0.0979)Phe;0.807,0.839,0.821,0.828,0.819,0.795,0.829,0.818,(4.1597)+(-0.0058)Ala+(-0.0140)Arg+(0.0045)Leu+(0.0868)Phe+(-0.1606)Trp;0.807,0.830,0.727,0.720,0.719,0.768,0.734,0.735,(4.1188)+(0.0017)Gly+(-0.1513)His+(0.0203)Thr+(-0.0543)Tyr+(0.1052)Phe;0.807,0.837,0.747,0.731,0.760,0.839,0.694,0.756,(4.1645)+(0.0386)Ser+(-0.1297)His+(0.0172)Thr+(0.0086)Val+(-0.1812)Met;0.807,0.834,0.775,0.758,0.773,0.819,0.796,0.786,(2.0028)+(0.0109)Gln+(-0.1725)His+(-0.0240)Arg+(0.0134)Orn+(0.0722)Phe;0.807,0.830,0.774,0.763,0.710,0.855,0.880,0.802,(4.0550)+(-0.0106)Ala+(-0.0606)Cit+(-0.0093)Arg+(-0.0504)Val+(0.1807)Ile;0.807,0.835,0.767,0.770,0.769,0.794,0.736,0.767,(2.5585)+(0.0301)Ser+(-0.0077)Thr+(0.0049)Pro+(0.0110)Orn+(-0.1533)Trp;0.807,0.830,0.736,0.701,0.743,0.828,0.749,0.755,(3.7815)+(0.0400)Ser+(-0.0046)Gly+(-0.1422)His+(0.0015)Val+(0.0229)Orn;0.807,0.838,0.773,0.762,0.778,0.783,0.787,0.777,(2.9235)+(0.0388)Ser+(-0.0083)Gly+(0.0039)Pro+(0.0068)Leu+(-0.1638)Trp;0.807,0.834,0.761,0.770,0.762,0.794,0.711,0.759,(3.1279)+(0.0261)Ser+(0.0054)Pro+(-0.0200)Tyr+(0.0109)Orn+(-0.1504)Trp;0.807,0.829,0.806,0.811,0.805,0.834,0.770,0.805,(8.6815)+(-0.0110)Asn+(0.0030)Gly+(-0.0773)His+(0.0001)Ala+(-0.0932)Trp;0.807,0.830,0.753,0.731,0.728,0.824,0.814,0.774,(5.9455)+(-0.1299)His+(0.0167)Thr+(-0.0058)Ala+(-0

.0268)Tyr+(0.0606)Ile;0.807,0.828,0.736,0.704,0.737,0.836,0.745,0.756
,(3.6985)+(0.0423)Ser+(-0.1414)His+(-0.0039)Ala+(-0.0121)Arg+(0.0240)
Leu;0.807,0.835,0.799,0.814,0.811,0.820,0.720,0.791,(6.3411)+(0.0216)
Thr+(-0.0015)Val+(-0.1712)Met+(0.0186)Orn+(-0.1396)Trp;0.807,0.834,0.
830,0.845,0.825,0.825,0.806,0.825,(5.1684)+(-0.0537)Asn+(0.0073)Gln+(
0.0085)Pro+(-0.1277)Met+(-0.1326)Trp;0.807,0.833,0.810,0.820,0.827,0.
821,0.744,0.803,(6.8031)+(-0.0019)Gly+(0.0260)Thr+(0.0157)Tyr+(-0.191
5)Met+(-0.1467)Trp;0.807,0.824,0.714,0.676,0.713,0.816,0.740,0.736,(3
.3353)+(0.0364)Ser+(-0.1479)His+(0.0045)Thr+(-0.0185)Val+(0.0464)Leu;
0.807,0.839,0.746,0.730,0.727,0.851,0.756,0.766,(1.6161)+(0.0393)Ser+
(-0.1325)Asn+(-0.0775)Cit+(0.1528)Ile+(-0.0775)Leu;0.806,0.837,0.779,
0.756,0.765,0.831,0.830,0.796,(5.8054)+(-0.0942)His+(-0.1744)Met+(0.0
089)Lys+(0.1346)Ile+(-0.0540)Leu;0.806,0.834,0.808,0.800,0.794,0.824,
0.845,0.816,(5.9393)+(-0.0054)Ala+(-0.0010)Arg+(-0.1281)Met+(0.0744)I
le+(-0.1397)Trp;0.806,0.831,0.776,0.769,0.721,0.825,0.873,0.797,(4.02
65)+(-0.1307)Asn+(-0.0141)Arg+(-0.0616)Val+(0.1671)Ile+(0.0661)Phe;0.
806,0.833,0.797,0.787,0.778,0.819,0.847,0.808,(5.3023)+(-0.0081)Ala+(
0.0102)Orn+(-0.0066)Lys+(0.0677)Ile+(-0.1504)Trp;0.806,0.832,0.821,0.
820,0.835,0.824,0.794,0.818,(
5.2072)+(0.0058)Gln+(-0.0832)Cit+(-0.0060)Lys+(0.0179)Leu+(-0.1662)Tr
p;0.806,0.832,0.812,0.812,0.816,0.822,0.799,0.812,(8.5537)+(-0.0124)A
sn+(-0.0805)His+(-0.0515)Met+(0.0149)Lys+(-0.1025)Trp;0.806,0.829,0.7
72,0.768,0.767,0.851,0.734,0.780,(3.0900)+(0.0308)Ser+(0.0082)Gln+(-0
.1457)His+(-0.0223)Arg+(-0.0022)Tyr;0.806,0.827,0.759,0.741,0.740,0.8
14,0.807,0.775,(3.4538)+(0.0005)Gly+(0.0082)Gln+(-0.1518)His+(-0.0267
)Tyr+(0.0497)Ile;0.806,0.832,0.815,0.815,0.818,0.829,0.797,0.815,(7.4
083)+(-0.0065)Ala+(-0.0712)Cit+(0.0141)Pro+(0.0037)Lys+(-0.1426)Trp;0
.806,0.835,0.767,0.770,0.773,0.802,0.719,0.766,(3.0456)+(0.0290)Ser+(

0.0045)Pro+(0.0124)Orn+(-0.0081)Lys+(-0.1489)Trp;0.806,0.835,0.795,0.789,0.801,0.821,0.778,0.797,(7.6771)+(0.0030)Gly+(-0.0944)His+(0.0130)Tyr+(0.0096)Lys+(-0.1077)Trp;0.806,0.831,0.798,0.786,0.809,0.811,0.798,0.801,(8.0484)+(-0.0955)His+(0.0071)Tyr+(0.0058)Val+(0.0084)Lys+(-0.1132)Trp;0.806,0.826,0.739,0.724,0.722,0.843,0.740,0.757,(4.0764)+(0.0373)Ser+(-0.1245)His+(-0.0052)Ala+(0.0123)Pro+(-0.0098)Tyr;0.806,0.830,0.733,0.698,0.743,0.826,0.739,0.751,(3.9027)+(0.0461)Ser+(-0.0556)Asn+(-0.1359)His+(-0.0051)Lys+(0.0237)Leu;0.806,0.840,0.822,0.831,0.833,0.778,0.807,0.812,(3.8141)+(-0.0068)Arg+(-0.2083)Met+(0.0071)Lys+(0.1085)Phe+(-0.1476)Trp;0.806,0.832,0.806,0.800,0.820,0.825,0.778,0.806,(6.7633)+(0.0171)Thr+(-0.0056)Ala+(-0.0785)Cit+(0.0215)Leu+(-0.1664)Trp;0.806,0.832,0.771,0.742,0.749,0.832,0.846,0.792,(4.8388)+(-0.1314)His+(-0.0070)Ala+(-0.0068)Arg+(0.0452)Ile+(0.0581)Phe;0.806,0.828,0.770,0.765,0.766,0.849,0.735,0.779,(2.9856)+(0.0307)Ser+(0.0082)Gln+(-0.1481)His+(-0.0232)Arg+(0.0013)Lys;0.806,0.836,0.773,0.771,0.773,0.813,0.747,0.776,(3.5631)+(0.0318)Ser+(-0.0184)Arg+(-0.0222)Val+(0.0476)Leu+(-0.1532)Trp;0.806,0.832,0.749,0.719,0.764,0.856,0.719,0.764,(4.4209)+(0.0336)Ser+(-0.1198)His+(-0.0046)Ala+(-0.0736)Cit+(0.0504)Orn;0.806,0.832,0.769,0.773,0.771,0.799,0.735,0.769,(2.9188)+(0.0299)Ser+(-0.0053)Thr+(0.0062)Pro+(-0.0016)Val+(-0.1505)Trp;0.806,0.824,0.711,0.672,0.711,0.813,0.742,0.734,(3.1574)+(0.0382)Ser+(-0.1450)His+(0.0041)Pro+(-0.0184)Val+(0.0438)Leu;0.806,0.838,0.809,0.822,0.798,0.781,0.819,0.805,(3.7690)+(-0.0052)Ala+(-0.0232)Tyr+(0.0042)Leu+(0.0912)Phe+(-0.1567)Trp;0.806,0.831,0.743,0.720,0.741,0.843,0.734,0.760,(4.0605)+(0.0329)Ser+(-0.1340)His+(-0.0002)Thr+(-0.0031)Ala+(0.0279)Orn;0.806,0.828,0.748,0.721,0.750,0.830,0.754,0.764,(4.4490)+(0.0480)Ser+(-0.0637)Asn+(-0.0040)Gly+(-0.1204)His+(0.0076)Pro;0.806,0.827,0.747,0.726,0.750,0.833,0.733,0.761,(2.4215)+(0.0314)Ser+(0.0067)Gln+(-0.15

52)His+(-0.0404)Cit+(0.0065)Val;0.806,0.827,0.805,0.798,0.810,0.824,0.801,0.808,(8.6519)+(0.0037)Asn+(-0.0871)His+(-0.0015)Ala+(0.0089)Val+(-0.1046)Trp;0.806,0.833,0.792,0.772,0.804,0.808,0.809,0.798,(7.9792)+(-0.0997)His+(0.0067)Tyr+(0.0055)Lys+(0.0209)Leu+(-0.1171)Trp;0.806,0.831,0.737,0.702,0.765,0.845,0.691,0.751,(4.4553)+(0.0353)Ser+(-0.1231)His+(-0.0692)Cit+(0.0496)Orn+(-0.0084)Lys;0.806,0.830,0.766,0.749,0.746,0.822,0.814,0.783,(3.6106)+(0.0088)Gln+(-0.1482)His+(-0.0233)Tyr+(-0.0056)Lys+(0.0523)Ile;0.806,0.829,0.765,0.740,0.762,0.823,0.794,0.780,(3.1398)+(0.0103)Gln+(-0.1612)His+(-0.0219)Arg+(0.0118)Orn+(0.0415)Ile;0.806,0.828,0.762,0.759,0.706,0.833,0.835,0.783,(5.5820)+(-0.1300)Asn+(-0.0300)Tyr+(-0.0564)Val+(0.0355)Orn+(0.1647)Ile;0.806,0.834,0.803,0.814,0.816,0.813,0.738,0.795,(6.6230)+(-0.0026)Gly+(0.0235)Thr+(-0.1746)Met+(0.0177)Orn+(-0.1426)Trp;0.806,0.832,0.793,0.787,0.802,0.822,0.768,0.795,(8.1211)+(0.0035)Gly+(-0.0936)His+(-0.0000)Arg+(0.0088)Val+(-0.1049)Trp;0.806,0.832,0.734,0.725,0.733,0.775,0.731,0.741,(4.6666)+(-0.1433)His+(0.0241)Thr+(-0.0393)Cit+(-0.0579)Tyr+(0.1096)Phe;0.806,0.830,0.751,0.734,0.733,0.783,0.810,0.765,(4.9435)+(-0.0187)Asn+(-0.1320)His+(-0.0480)Tyr+(0.0382)Ile+(0.0802)Phe;0.806,0.836,0.769,0.764,0.746,0.800,0.806,0.779,(-0.3473)+(0.0031)Gly+(-0.3387)Met+(0.1754)Ile+(-0.0961)Leu+(0.1089)Phe;0.806,0.831,0.818,0.825,0.833,0.826,0.759,0.811,(5.5637)+(-0.0006)Gly+(0.0043)Gln+(0.0103)Thr+(-0.0774)Cit+(-0.1627)Trp;0.806,0.835,0.790,0.782,0.791,0.798,0.804,0.794,(5.7249)+(-0.0802)Asn+(0.0143)Thr+(-0.0019)Pro+(0.0492)Ile+(-0.1606)Trp;0.806,0.834,0.768,0.771,0.771,0.802,0.730,0.768,(3.1121)+(0.0309)Ser+(-0.0028)Thr+(0.0059)Pro+(-0.0056)Lys+(-0.1478)Trp;0.806,0.830,0.753,0.732,0.744,0.805,0.791,0.768,(1.8276)+(0.0019)Gly+(0.0078)Gln+(-0.1743)His+(0.0102)Orn+(0.0687)Phe;0.806,0.840,0.809,0.829,0.808,0.770,0.788,0.799,(4.1078)+(-0.0129)Arg+(-0.0268)Tyr+(-0.0058)Val+(0.1033)

Phe+(-0.1505)Trp;0.806,0.833,0.792,0.800,0.786,0.837,0.750,0.793,(3.6842)+(0.0278)Ser+(-0.0044)Ala+(0.0205)Orn+(-0.0054)Lys+(-0.1396)Trp;0.806,0.836,0.787,0.782,0.784,0.845,0.763,0.794,(4.4759)+(0.0084)Gln+(-0.1398)His+(0.0195)Thr+(-0.1688)Met+(0.0204)Orn;0.806,0.834,0.751,0.731,0.765,0.842,0.711,0.762,(4.7267)+(0.0406)Ser+(-0.0572)Asn+(-0.1216)His+(-0.0143)Arg+(0.0322)Orn;0.806,0.833,0.777,0.767,0.720,0.830,0.882,0.800,(3.8051)+(-0.1491)Asn+(-0.0023)Pro+(-0.0606)Val+(0.1660)Ile+(0.0645)Phe;0.806,0.831,0.769,0.755,0.717,0.832,0.868,0.793,(3.7809)+(-0.1625)Asn+(-0.0623)Val+(0.0257)Orn+(0.1616)Ile+(0.0562)Phe;0.806,0.826,0.742,0.717,0.707,0.819,0.825,0.767,(5.1248)+(0.0019)Gly+(-0.1022)His+(-0.0019)Pro+(-0.0339)Val+(0.1284)Ile;0.806,0.839,0.813,0.828,0.802,0.783,0.819,0.808,(3.8518)+(-0.0048)Ala+(-0.0230)Tyr+(-0.0011)Lys+(0.0952)Phe+(-0.1530)Trp;0.806,0.836,0.818,0.819,0.811,0.818,0.830,0.820,(4.3564)+(-0.0735)Asn+(0.0064)Gln+(-0.0144)Arg+(0.0497)Ile+(-0.1591)Trp;0.806,0.833,0.747,0.724,0.755,0.840,0.722,0.760,(4.5023)+(0.0393)Ser+(-0.0675)Asn+(-0.1229)His+(0.0292)Orn+(-0.0010)Lys;0.806,0.833,0.790,0.772,0.790,0.814,0.819,0.799,(8.2736)+(-0.0913)His+(0.0022)Arg+(-0.0164)Val+(0.0504)Leu+(-0.1090)Trp;0.806,0.833,0.804,0.806,0.822,0.821,0.747,0.799,(7.3054)+(0.0034)Gly+(-0.0665)Cit+(0.0112)Pro+(-0.0902)Met+(-0.1356)Trp;0.806,0.833,0.797,0.811,0.810,0.813,0.722,0.789,(6.1680)+(0.0210)Thr+(-0.1785)Met+(0.0163)Orn+(0.0022)Lys+(-0.1432)Trp;0.806,0.834,0.817,0.817,0.821,0.832,0.799,0.817,(7.5944)+(-0.0063)Ala+(-0.0731)Cit+(0.0037)Arg+(0.0142)Pro+(-0.1393)Trp;0.806,0.836,0.816,0.808,0.826,0.826,0.810,0.817,(8.2322)+(-0.0835)His+(0.0256)Tyr+(-0.0965)Met+(0.0141)Lys+(-0.1099)Trp;0.806,0.840,0.812,0.828,0.810,0.765,0.807,0.802,(4.6721)+(-0.0627)Asn+(-0.0278)Tyr+(0.0026)Lys+(0.0907)Phe+(-0.1489)Trp;0.806,0.838,0.802,0.809,0.820,0.764,0.774,0.792,(3.8128)+(0.0004)Gly+(-0.0201)Arg+(0.0128)Orn+(0.0724)Phe+(-0.1680)Tr

p;0.806,0.837,0.780,0.772,0.790,0.753,0.799,0.778,(3.3794)+(0.0013)Gl
y+(-0.0203)Arg+(0.0428)Ile+(0.0566)Phe+(-0.1806)Trp;0.806,0.831,0.812
,0.817,0.832,0.820,0.755,0.806,(5.3352)+(0.0043)Gln+(0.0093)Thr+(-0.0
820)Cit+(0.0034)Val+(-0.1685)Trp;0.806,0.829,0.736,0.729,0.642,0.842,
0.873,0.772,(-0.9690)+(0.0214)Ser+(-0.0126)Ala+(-0.0544)Val+(0.1670)I
le+(0.0383)Phe;0.806,0.829,0.793,0.787,0.740,0.862,0.871,0.815,(4.211
7)+(-0.1531)Asn+(0.0065)Gln+(-0.0603)Cit+(-0.0529)Val+(0.1624)Ile;0.8
06,0.828,0.765,0.758,0.748,0.847,0.757,0.777,(3.1511)+(0.0283)Ser+(0.
0061)Gln+(-0.1439)His+(-0.0021)Ala+(-0.0018)Tyr;0.806,0.824,0.731,0.6
96,0.735,0.821,0.749,0.750,(3.6608)+(0.0432)Ser+(-0.0045)Gly+(-0.1404
)His+(0.0056)Pro+(0.0022)Val;0.806,0.832,0.762,0.771,0.763,0.794,0.71
5,0.761,(3.3195)+(0.0278)Ser+(-0.0003)Gln+(0.0064)Pro+(-0.0166)Tyr+(-
0.1493)Trp;0.806,0.843,0.817,0.828,0.825,0.773,0.800,0.806,(3.9815)+(
-0.0177)Arg+(-0.0071)Val+(0.0026)Lys+(0.0898)Phe+(-0.1607)Trp;0.806,0
.838,0.798,0.815,0.796,0.752,0.791,0.789,(3.7327)+(-0.0003)Gly+(-0.03
25)Tyr+(-0.0026)Lys+(0.0916)Phe+(-0.1580)Trp;0.806,0.827,0.786,0.781,
0.718,0.859,0.887,0.811,(5.6359)+(-0.0885)Asn+(-0.0072)Ala+(-0.0087)A
rg+(-0.0546)Val+(0.1810)Ile;0.806,0.831,0.805,0.800,0.810,0.839,0.784
,0.808,(8.3572)+(-0.0168)Asn+(0.0036)Gly+(-0.0840)His+(0.0220)Tyr+(-0
.1012)Trp;0.806,0.834,0.774,0.783,0.780,0.810,0.707,0.770,(3.3327)+(0
.0308)Ser+(0.0009)Gln+(-0.0226)Arg+(0.0067)Pro+(-0.1519)Trp;0.806,0.8
34,0.820,0.818,0.826,0.835,0.802,0.820,(7.6277)+(-0.0065)Ala+(-0.0718
)Cit+(0.0139)Pro+(0.0070)Tyr+(-0.1411)Trp;0.806,0.832,0.744,0.720,0.7
53,0.838,0.719,0.758,(4.5281)+(0.0381)Ser+(-0.0730)Asn+(-0.1250)His+(
0.0038)Thr+(0.0270)Orn;0.806,0.832,0.795,0.778,0.793,0.824,0.825,0.80
5,(8.4592)+(-0.0879)His+(-0.0016)Ala+(-0.0160)Val+(0.0512)Leu+(-0.107
2)Trp;0.806,0.829,0.790,0.783,0.819,0.804,0.740,0.787,(6.3022)+(0.001
1)Gly+(0.0128)Thr+(-0.0811)Cit+(0.0154)Leu+(-0.1726)Trp;0.806,0.830,0

.756,0.759,0.701,0.854,0.792,0.777,(0.4706)+(0.0332)Ser+(-0.0109)Ala+(-0.0367)Arg+(0.1929)Ile+(-0.0946)Leu;0.806,0.829,0.785,0.781,0.714,0.861,0.891,0.812,(5.4378)+(-0.1041)Asn+(-0.0074)Ala+(-0.0545)Val+(0.0016)Lys+(0.1785)Ile;0.806,0.828,0.737,0.713,0.752,0.835,0.696,0.749,(4.2788)+(0.0364)Ser+(-0.1335)His+(-0.0177)Arg+(0.0303)Orn+(-0.0013)Lys;0.806,0.830,0.807,0.822,0.821,0.811,0.735,0.797,(6.9966)+(-0.0024)Gly+(0.0266)Thr+(0.0006)Val+(-0.1701)Met+(-0.1432)Trp;0.806,0.834,0.759,0.753,0.765,0.794,0.732,0.761,(2.7366)+(0.0320)Ser+(0.0037)Pro+(-0.0101)Lys+(0.0137)Leu+(-0.1567)Trp;0.805,0.828,0.773,0.756,0.762,0.819,0.806,0.786,(2.1722)+(0.0095)Gln+(-0.1637)His+(-0.0406)Cit+(-0.0032)Val+(0.0820)Phe;0.805,0.835,0.758,0.745,0.767,0.852,0.702,0.767,(4.5299)+(0.0366)Ser+(-0.1205)His+(0.0172)Thr+(0.0170)Tyr+(-0.1851)Met;0.805,0.834,0.803,0.805,0.795,0.856,0.777,0.808,(4.8718)+(-0.0450)Asn+(0.0102)Gln+(-0.1318)His+(0.0231)Thr+(-0.1411)Met;0.805,0.829,0.756,0.744,0.756,0.840,0.727,0.767,(2.6824)+(0.0328)Ser+(0.0077)Gln+(-0.1501)His+(-0.0241)Arg+(0.0064)Pro;0.805,0.833,0.839,0.852,0.843,0.844,0.792,0.833,(5.2578)+(0.0070)Gln+(-0.0635)Cit+(-0.1083)Met+(0.0048)Lys+(-0.1422)Trp;0.805,0.832,0.809,0.803,0.828,0.806,0.791,0.807,(7.6842)+(-0.0394)Asn+(-0.0703)Cit+(0.0072)Pro+(0.0123)Leu+(-0.1521)Trp;0.805,0.831,0.796,0.787,0.797,0.800,0.816,0.800,(5.8474)+(-0.0085)Asn+(0.0029)Pro+(-0.1640)Met+(0.0619)Ile+(-0.1427)Trp;0.805,0.834,0.807,0.818,0.825,0.822,0.731,0.799,(6.5060)+(0.0244)Thr+(0.0177)Tyr+(-0.0000)Val+(-0.1936)Met+(-0.1463)Trp;0.805,0.834,0.793,0.780,0.772,0.841,0.832,0.806,(2.3141)+(0.0098)Gln+(-0.1562)His+(-0.0050)Ala+(-0.0458)Cit+(0.0858)Phe;0.805,0.841,0.788,0.778,0.796,0.765,0.816,0.789,(3.8261)+(-0.0153)Arg+(-0.0069)Lys+(0.0464)Ile+(0.0591)Phe+(-0.1750)Trp;0.805,0.835,0.764,0.751,0.767,0.851,0.729,0.774,(4.8990)+(0.0409)Ser+(-0.0048)Gly+(-0.1160)His+(0.0187)Thr+(

-0.1560)Met;0.805,0.830,0.730,0.722,0.723,0.764,0.745,0.738,(4.3862)+(-0.1509)His+(0.0219)Thr+(-0.0569)Tyr+(0.0018)Leu+(0.1027)Phe;0.805,0.836,0.739,0.707,0.752,0.828,0.735,0.755,(3.3367)+(0.0476)Ser+(-0.1328)His+(-0.1589)Met+(-0.0011)Lys+(0.0309)Leu;0.805,0.825,0.750,0.732,0.713,0.819,0.822,0.772,(6.0370)+(-0.0847)His+(-0.0344)Cit+(-0.0208)Tyr+(-0.0342)Val+(0.1345)Ile;0.805,0.831,0.789,0.781,0.791,0.798,0.803,0.793,(5.3750)+(0.0018)Gly+(0.0028)Pro+(-0.1788)Met+(0.0637)Ile+(-0.1429)Trp;0.805,0.826,0.725,0.711,0.646,0.841,0.848,0.761,(1.6293)+(0.0287)Ser+(-0.0048)Gln+(-0.0109)Ala+(-0.0525)Val+(0.1780)Ile;0.805,0.836,0.771,0.775,0.739,0.790,0.812,0.779,(0.4938)+(-0.0336)Tyr+(-0.2742)Met+(0.1759)Ile+(-0.0970)Leu+(0.1162)Phe;0.805,0.831,0.732,0.704,0.743,0.831,0.711,0.747,(4.0555)+(0.0339)Ser+(-0.1366)His+(0.0004)Thr+(0.0275)Orn+(-0.0052)Lys;0.805,0.831,0.806,0.823,0.816,0.825,0.727,0.798,(6.7189)+(0.0249)Thr+(-0.0018)Ala+(0.0017)Val+(-0.1589)Met+(-0.1415)Trp;0.805,0.826,0.749,0.717,0.742,0.813,0.802,0.769,(2.9340)+(0.0011)Gly+(0.0076)Gln+(-0.1633)His+(0.0079)Orn+(0.0412)Ile;0.805,0.839,0.790,0.806,0.792,0.748,0.774,0.780,(3.9537)+(-0.0152)Arg+(0.0058)Pro+(-0.0342)Tyr+(0.0917)Phe+(-0.1591)Trp;0.805,0.832,0.799,0.805,0.816,0.805,0.743,0.792,(6.7034)+(-0.0411)Asn+(0.0275)Thr+(-0.1687)Met+(0.0161)Leu+(-0.1478)Trp;0.805,0.831,0.746,0.732,0.741,0.832,0.730,0.759,(3.1042)+(0.0269)Ser+(0.0049)Gln+(-0.1481)His+(-0.0141)Tyr+(0.0226)Orn;0.805,0.829,0.796,0.785,0.799,0.801,0.812,0.799,(5.7188)+(-0.0123)Asn+(-0.1591)Met+(0.0109)Orn+(0.0610)Ile+(-0.1425)Trp;0.805,0.833,0.766,0.768,0.769,0.796,0.734,0.767,(2.8642)+(0.0306)Ser+(-0.0003)Gln+(-0.0055)Thr+(0.0058)Pro+(-0.1524)Trp;0.805,0.829,0.738,0.717,0.743,0.831,0.718,0.752,(4.4360)+(0.0411)Ser+(-0.0714)Asn+(-0.1231)His+(0.0049)Thr+(0.0071)Pro;0.805,0.833,0.798,0.797,0.808,0.831,0.756,0.798,(8.0965)+(0.0038)Gly+(-0.0800)His+(-0.0347)Cit+(0.0106)Lys+(-0.1067)Trp;0.805,

0.831,0.729,0.696,0.741,0.828,0.715,0.745,(3.8452)+(0.0358)Ser+(-0.1413)His+(0.0039)Val+(0.0249)Orn+(-0.0066)Lys;0.805,0.831,0.796,0.793,0.820,0.809,0.743,0.791,(6.7003)+(0.0117)Thr+(-0.0785)Cit+(0.0064)Pro+(0.0015)Val+(-0.1637)Trp;0.805,0.834,0.789,0.786,0.786,0.843,0.762,0.795,(4.2445)+(0.0095)Gln+(-0.1455)His+(0.0223)Thr+(0.0056)Val+(-0.1822)Met;0.805,0.830,0.794,0.793,0.818,0.813,0.734,0.789,(6.6563)+(0.0009)Gly+(0.0112)Thr+(-0.0784)Cit+(0.0069)Pro+(-0.1610)Trp;0.805,0.834,0.785,0.782,0.788,0.798,0.779,0.787,(3.3884)+(0.0374)Ser+(-0.0084)Gly+(-0.0003)Gln+(0.0126)Orn+(-0.1555)Trp;0.805,0.833,0.800,0.799,0.792,0.824,0.804,0.805,(3.8139)+(0.0382)Ser+(-0.0075)Gly+(-0.0037)Ala+(0.0028)Val+(-0.1476)Trp;0.805,0.835,0.777,0.770,0.754,0.801,0.827,0.788,(0.3340)+(-0.3207)Met+(-0.0016)Lys+(0.1741)Ile+(-0.0953)Leu+(0.1056)Phe;0.805,0.835,0.757,0.750,0.772,0.855,0.675,0.763,(5.0664)+(0.0355)Ser+(-0.1116)His+(0.0206)Thr+(-0.0340)Cit+(-0.1573)Met;0.805,0.833,0.798,0.787,0.808,0.803,0.799,0.799,(6.7558)+(-0.0694)Cit+(0.0074)Pro+(-0.0179)Val+(0.0406)Leu+(-0.1575)Trp;0.805,0.832,0.827,0.827,0.831,0.835,0.818,0.827,(5.1550)+(0.0057)Gln+(-0.0050)Ala+(-0.0791)Cit+(0.0207)Leu+(-0.1625)Trp;0.805,0.822,0.754,0.721,0.750,0.815,0.804,0.772,(3.0473)+(0.0087)Gln+(-0.1567)His+(0.0053)Thr+(-0.0466)Cit+(0.0464)Ile;0.805,0.834,0.780,0.770,0.765,0.821,0.812,0.792,(1.1084)+(-0.0727)Cit+(-0.2964)Met+(0.1806)Ile+(-0.0976)Leu+(0.1138)Phe;0.805,0.832,0.780,0.766,0.774,0.821,0.801,0.791,(1.9776)+(0.0118)Gln+(-0.1686)His+(-0.0303)Cit+(-0.0187)Arg+(0.0810)Phe;0.805,0.830,0.804,0.793,0.815,0.820,0.801,0.807,(8.4656)+(-0.0023)Asn+(-0.0897)His+(0.0128)Tyr+(0.0070)Val+(-0.1096)Trp;0.805,0.832,0.784,0.785,0.780,0.790,0.788,0.786,(5.0660)+(0.0038)Pro+(-0.0274)Val+(0.0196)Orn+(0.0469)Leu+(-0.1531)Trp;0.805,0.836,0.790,0.806,0.789,0.742,0.784,0.780,(3.6249)+(-0.0010)Gly+(-0.0367)Tyr+(0.0105)Orn+(0.0833)Phe+(-0.1591)Trp;0.805,0.833,0.807,0.818,

0.829,0.825,0.720,0.798,(6.9700)+(0.0285)Thr+(-0.0139)Arg+(0.0192)Tyr+(-0.1885)Met+(-0.1451)Trp;0.805,0.832,0.806,0.824,0.821,0.829,0.713,0.797,(7.2350)+(0.0289)Thr+(-0.0013)Ala+(-0.0129)Arg+(-0.1522)Met+(-0.1379)Trp;0.805,0.831,0.770,0.747,0.757,0.840,0.812,0.789,(5.7931)+(0.0056)Gly+(-0.1113)His+(-0.0049)Ala+(-0.1391)Met+(0.0745)Ile;0.805,0.835,0.788,0.791,0.785,0.802,0.775,0.788,(3.7803)+(0.0376)Ser+(-0.0088)Gly+(-0.0192)Tyr+(0.0172)Orn+(-0.1468)Trp;0.805,0.834,0.780,0.777,0.773,0.823,0.772,0.786,(3.1437)+(0.0327)Ser+(-0.0051)Ala+(-0.0080)Lys+(0.0215)Leu+(-0.1498)Trp;0.805,0.832,0.773,0.750,0.764,0.831,0.812,0.789,(3.2488)+(0.0109)Gln+(-0.1571)His+(-0.0189)Arg+(-0.0038)Lys+(0.0475)Ile;0.805,0.840,0.807,0.815,0.824,0.770,0.776,0.796,(3.9269)+(-0.0201)Arg+(0.0143)Orn+(-0.0038)Leu+(0.0748)Phe+(-0.1647)Trp;0.805,0.835,0.755,0.749,0.762,0.848,0.692,0.763,(4.7899)+(0.0349)Ser+(-0.1180)His+(0.0181)Thr+(0.0002)Ala+(-0.1585)Met;0.805,0.835,0.800,0.794,0.805,0.816,0.794,0.802,(8.4360)+(-0.0817)His+(-0.0029)Arg+(0.0079)Pro+(0.0084)Tyr+(-0.1037)Trp;0.805,0.830,0.816,0.819,0.828,0.822,0.776,0.811,(5.3916)+(0.0053)Gln+(-0.0815)Cit+(0.0076)Pro+(-0.0021)Lys+(-0.1590)Trp;0.805,0.830,0.801,0.788,0.789,0.846,0.829,0.813,(3.8841)+(0.0112)Gln+(-0.1358)His+(-0.0200)Val+(-0.1559)Met+(0.0523)Leu;0.805,0.835,0.804,0.816,0.813,0.808,0.747,0.796,(4.5404)+(0.0043)Gln+(0.0230)Thr+(-0.2202)Met+(0.0161)Leu+(-0.1543)Trp;0.805,0.834,0.807,0.800,0.787,0.826,0.854,0.817,(5.9535)+(-0.0363)Asn+(-0.0071)Ala+(-0.0019)Tyr+(0.0659)Ile+(-0.1475)Trp;0.805,0.831,0.799,0.796,0.822,0.820,0.742,0.795,(6.9847)+(0.0133)Thr+(-0.0768)Cit+(0.0069)Pro+(-0.0029)Lys+(-0.1588)Trp;0.805,0.831,0.798,0.789,0.778,0.823,0.848,0.809,(5.2767)+(0.0008)Gly+(-0.0079)Ala+(-0.0052)Lys+(0.0709)Ile+(-0.1513)Trp;0.805,0.829,0.743,0.725,0.725,0.779,0.805,0.759,(4.6293)+(-0.1370)His+(0.0004)Pro+(-0.0494)Tyr+(0.0386)Ile+(0.0786)Phe;0.805,0.832,0.744,0.720,0.753,0.838,0

.723,0.758,(4.3873)+(0.0395)Ser+(-0.0683)Asn+(-0.1252)His+(0.0009)Val+(0.0277)Orn;0.805,0.827,0.763,0.753,0.757,0.848,0.740,0.774,(3.2018)+(0.0299)Ser+(0.0069)Gln+(-0.1394)His+(-0.0358)Cit+(-0.0037)Lys;0.805,0.826,0.755,0.727,0.732,0.835,0.820,0.778,(5.2487)+(0.0041)Gly+(-0.1259)His+(-0.0074)Ala+(0.0039)Pro+(0.0573)Ile;0.805,0.838,0.755,0.739,0.768,0.849,0.702,0.765,(4.4993)+(0.0393)Ser+(-0.1196)His+(-0.0131)Arg+(-0.1046)Met+(0.0346)Orn;0.805,0.827,0.747,0.720,0.730,0.818,0.805,0.768,(5.2930)+(-0.1223)His+(0.0082)Thr+(-0.0042)Pro+(0.1085)Ile+(-0.0423)Leu;0.805,0.827,0.730,0.696,0.726,0.830,0.756,0.752,(3.4993)+(0.0397)Ser+(-0.1441)His+(-0.0040)Ala+(-0.0075)Tyr+(0.0250)Leu;0.805,0.837,0.787,0.781,0.793,0.797,0.783,0.789,(6.0193)+(-0.0672)Asn+(0.0179)Thr+(-0.0165)Arg+(0.0489)Ile+(-0.1610)Trp;0.805,0.832,0.795,0.798,0.788,0.851,0.764,0.800,(4.6217)+(0.0092)Gln+(-0.1360)His+(0.0221)Thr+(-0.0003)Ala+(-0.1670)Met;0.805,0.832,0.791,0.774,0.801,0.806,0.806,0.797,(8.0910)+(-0.0979)His+(-0.0017)Arg+(0.0067)Lys+(0.0209)Leu+(-0.1149)Trp;0.805,0.831,0.805,0.809,0.821,0.820,0.749,0.800,(7.7241)+(-0.0483)Asn+(0.0041)Gly+(-0.0721)Cit+(0.0094)Pro+(-0.1395)Trp;0.805,0.828,0.720,0.682,0.739,0.822,0.707,0.738,(3.4422)+(0.0396)Ser+(-0.1479)His+(-0.0172)Arg+(0.0216)Orn+(0.0156)Leu;0.805,0.825,0.723,0.680,0.729,0.816,0.754,0.745,(3.2760)+(0.0436)Ser+(-0.0041)Gly+(-0.1524)His+(0.0021)Thr+(0.0186)Leu;0.805,0.831,0.727,0.691,0.738,0.823,0.731,0.746,(3.9181)+(0.0428)Ser+(-0.0719)Asn+(-0.1405)His+(0.0072)Thr+(0.0204)Leu;0.805,0.824,0.748,0.732,0.708,0.815,0.827,0.770,(5.7190)+(-0.0905)His+(-0.0216)Tyr+(-0.0309)Val+(0.1389)Ile+(-0.0109)Leu;0.805,0.831,0.795,0.787,0.773,0.815,0.846,0.805,(5.0565)+(0.0005)Gly+(-0.0080)Ala+(-0.0051)Tyr+(0.0678)Ile+(-0.1549)Trp;0.805,0.831,0.812,0.809,0.829,0.818,0.777,0.808,(4.9128)+(0.0013)Gly+(0.0049)Gln+(-0.0836)Cit+(0.0150)Leu+(-0.1701)Trp;0.805,0.824,0.745,0.727,0.744,0.833,0.728,0.758,(2.697

0)+(0.0309)Ser+(0.0061)Gln+(-0.1466)His+(-0.0376)Cit+(0.0057)Pro;0.805,0.835,0.808,0.812,0.795,0.827,0.810,0.811,(3.7243)+(0.0363)Ser+(-0.0077)Gly+(0.0013)Gln+(-0.0034)Ala+(-0.1454)Trp;0.805,0.834,0.748,0.729,0.755,0.838,0.720,0.761,(4.6763)+(0.0386)Ser+(-0.0663)Asn+(-0.1199)His+(-0.0109)Tyr+(0.0315)Orn;0.805,0.828,0.735,0.701,0.747,0.823,0.733,0.751,(4.0531)+(0.0460)Ser+(-0.0620)Asn+(-0.1299)His+(-0.0315)Cit+(0.0213)Leu;0.805,0.825,0.800,0.787,0.782,0.845,0.841,0.814,(4.5490)+(-0.0812)Asn+(0.0114)Gln+(-0.1352)His+(-0.0219)Val+(0.0465)Leu;0.805,0.833,0.808,0.800,0.788,0.827,0.855,0.817,(5.9784)+(-0.0337)Asn+(-0.0071)Ala+(-0.0017)Lys+(0.0669)Ile+(-0.1470)Trp;0.805,0.831,0.793,0.785,0.773,0.813,0.841,0.803,(5.0436)+(-0.0080)Ala+(-0.0077)Tyr+(0.0078)Orn+(0.0650)Ile+(-0.1543)Trp;0.805,0.833,0.772,0.780,0.779,0.813,0.705,0.769,(3.6664)+(0.0319)Ser+(-0.0215)Arg+(0.0075)Pro+(-0.0015)Val+(-0.1482)Trp;0.805,0.834,0.754,0.747,0.761,0.846,0.693,0.762,(4.5391)+(0.0347)Ser+(-0.1203)His+(0.0175)Thr+(-0.1742)Met+(0.0052)Lys;0.805,0.825,0.749,0.716,0.742,0.812,0.805,0.769,(3.0332)+(0.0075)Gln+(-0.1650)His+(0.0038)Thr+(0.0068)Orn+(0.0403)Ile;0.805,0.829,0.758,0.737,0.753,0.810,0.790,0.772,(2.1302)+(0.0087)Gln+(-0.1712)His+(0.0080)Thr+(-0.0437)Cit+(0.0751)Phe;0.805,0.834,0.777,0.770,0.753,0.800,0.827,0.787,(0.2182)+(0.0002)Pro+(-0.3254)Met+(0.1740)Ile+(-0.0960)Leu+(0.1056)Phe;0.805,0.824,0.761,0.753,0.714,0.836,0.827,0.783,(5.7290)+(-0.1404)Asn+(0.0222)Thr+(-0.0221)Arg+(-0.0609)Val+(0.1770)Ile;0.805,0.835,0.842,0.855,0.845,0.850,0.792,0.836,(5.4349)+(0.0073)Gln+(-0.0651)Cit+(0.0011)Arg+(-0.0935)Met+(-0.1394)Trp;0.805,0.831,0.792,0.799,0.783,0.834,0.757,0.793,(3.4267)+(0.0272)Ser+(-0.0023)Thr+(-0.0046)Ala+(0.0184)Orn+(-0.1436)Trp;0.805,0.833,0.763,0.761,0.765,0.787,0.743,0.764,(2.3906)+(0.0310)Ser+(-0.0063)Thr+(0.0043)Pro+(0.0083)Leu+(-0.1598)Trp;0.805,0.829,0.810,0.822,0.801,0.832,0.782,0.809,(7.2592)+(-0.0758)Asn+(0

.0177)Thr+(-0.0059)Ala+(0.0092)Pro+(-0.1372)Trp;0.805,0.827,0.812,0.805,0.824,0.826,0.798,0.813,(9.1246)+(-0.0734)His+(-0.0018)Ala+(-0.0391)Cit+(0.0103)Val+(-0.1104)Trp;0.805,0.828,0.760,0.724,0.744,0.835,0.836,0.785,(5.5893)+(-0.1273)His+(-0.0075)Ala+(0.0029)Pro+(0.0215)Orn+(0.0499)Ile;0.805,0.826,0.746,0.729,0.723,0.808,0.790,0.763,(5.4964)+(0.0024)Gly+(-0.1071)His+(-0.0259)Tyr+(0.1143)Ile+(-0.0440)Leu;0.805,0.832,0.815,0.811,0.823,0.820,0.805,0.815,(5.1774)+(0.0048)Gln+(-0.0751)Cit+(-0.0145)Val+(0.0376)Leu+(-0.1656)Trp;0.805,0.833,0.765,0.773,0.765,0.800,0.717,0.764,(3.4351)+(0.0294)Ser+(0.0067)Pro+(-0.0131)Tyr+(-0.0052)Lys+(-0.1448)Trp;0.805,0.829,0.706,0.662,0.718,0.816,0.721,0.729,(2.8923)+(0.0367)Ser+(-0.1553)His+(0.0025)Pro+(0.0151)Orn+(0.0151)Leu;0.804,0.825,0.739,0.714,0.705,0.816,0.822,0.764,(5.2192)+(0.0020)Gly+(-0.0994)His+(-0.0340)Val+(-0.0030)Lys+(0.1284)Ile;0.804,0.831,0.744,0.719,0.747,0.826,0.749,0.760,(4.3503)+(0.0398)Ser+(-0.0056)Gly+(-0.1312)His+(-0.0199)Tyr+(0.0300)Orn;0.804,0.826,0.768,0.755,0.721,0.846,0.843,0.791,(5.7625)+(-0.1494)Asn+(0.0184)Thr+(-0.0532)Cit+(-0.0562)Val+(0.1690)Ile;0.804,0.835,0.748,0.732,0.757,0.838,0.703,0.758,(4.2307)+(0.0457)Ser+(-0.1124)His+(-0.0106)Arg+(0.0129)Pro+(-0.1453)Met;0.804,0.831,0.808,0.802,0.790,0.827,0.848,0.817,(6.0573)+(-0.0299)Asn+(-0.0070)Ala+(-0.0063)Arg+(0.0665)Ile+(-0.1474)Trp;0.804,0.833,0.829,0.846,0.827,0.833,0.785,0.823,(5.8413)+(-0.1105)Asn+(0.0057)Gln+(0.0162)Thr+(-0.0033)Val+(-0.1407)Trp;0.804,0.833,0.768,0.772,0.776,0.793,0.722,0.766,(2.9471)+(0.0255)Ser+(0.0046)Pro+(-0.0033)Val+(0.0100)Orn+(-0.1536)Trp;0.804,0.826,0.748,0.725,0.712,0.818,0.835,0.773,(5.3787)+(-0.0973)His+(-0.0022)Pro+(-0.0320)Val+(0.1373)Ile+(-0.0099)Leu;0.804,0.842,0.803,0.809,0.817,0.760,0.790,0.794,(3.9017)+(-0.0177)Arg+(0.0038)Pro+(-0.0010)Lys+(0.0768)Phe+(-0.1694)Trp;0.804,0.838,0.797,0.814,0.796,0.752,0.789,0.7

88,(3.6795)+(-0.0324)Tyr+(-0.0028)Lys+(0.0005)Leu+(0.0915)Phe+(-0.158
5)Trp;0.804,0.836,0.783,0.775,0.793,0.753,0.803,0.781,(3.6263)+(-0.01
99)Arg+(0.0023)Orn+(0.0418)Ile+(0.0543)Phe+(-0.1796)Trp;0.804,0.835,0
.743,0.710,0.762,0.831,0.730,0.758,(3.5675)+(0.0476)Ser+(-0.1260)His+
(-0.0294)Cit+(-0.1585)Met+(0.0305)Leu;0.804,0.834,0.778,0.756,0.762,0
.831,0.830,0.795,(6.1690)+(-0.0885)His+(0.0006)Pro+(-0.1528)Met+(0.13
15)Ile+(-0.0500)Leu;0.804,0.834,0.796,0.810,0.816,0.818,0.699,0.786,(
6.7378)+(0.0256)Thr+(-0.0163)Arg+(-0.1650)Met+(0.0208)Orn+(-0.1397)Tr
p;0.804,0.830,0.726,0.718,0.718,0.760,0.741,0.734,(4.3067)+(-0.1492)H
is+(0.0210)Thr+(0.0027)Pro+(-0.0587)Tyr+(0.1027)Phe;0.804,0.830,0.811
,0.813,0.829,0.836,0.753,0.808,(7.1282)+(0.0166)Thr+(-0.0047)Ala+(-0.
0766)Cit+(0.0062)Val+(-0.1579)Trp;0.804,0.825,0.738,0.707,0.740,0.827
,0.753,0.757,(4.0471)+(0.0443)Ser+(-0.0049)Gly+(-0.1320)His+(0.0068)P
ro+(-0.0041)Lys;0.804,0.832,0.779,0.789,0.790,0.822,0.701,0.776,(3.66
40)+(0.0305)Ser+(-0.0210)Arg+(0.0204)Orn+(-0.0025)Lys+(-0.1461)Trp;0.
804,0.832,0.793,0.796,0.813,0.815,0.731,0.789,(6.9459)+(0.0133)Thr+(-
0.0751)Cit+(0.0077)Pro+(-0.0123)Tyr+(-0.1567)Trp;0.804,0.829,0.813,0.
816,0.827,0.814,0.776,0.808,(5.1976)+(0.0050)Gln+(-0.0835)Cit+(0.0069
)Pro+(0.0020)Val+(-0.1647)Trp;0.804,0.824,0.765,0.746,0.750,0.821,0.8
04,0.780,(3.4286)+(0.0095)Gln+(-0.1431)His+(-0.0466)Cit+(-0.0275)Tyr+
(0.0540)Ile;0.804,0.829,0.735,0.694,0.741,0.780,0.800,0.754,(4.5915)+
(-0.0567)Asn+(-0.1478)His+(0.0182)Thr+(0.0278)Ile+(0.0578)Phe;0.804,0
.835,0.776,0.778,0.773,0.749,0.796,0.774,(3.7486)+(-0.0156)Arg+(-0.03
30)Tyr+(0.0445)Ile+(0.0713)Phe+(-0.1695)Trp;0.804,0.826,0.746,0.722,0
.709,0.816,0.834,0.770,(5.4374)+(-0.0958)His+(-0.0328)Val+(-0.0021)Ly
s+(0.1345)Ile+(-0.0075)Leu;0.804,0.831,0.815,0.825,0.830,0.826,0.748,
0.807,(5.6024)+(0.0043)Gln+(0.0109)Thr+(-0.0767)Cit+(-0.0067)Tyr+(-0.
1598)Trp;0.804,0.834,0.805,0.795,0.816,0.831,0.791,0.808,(8.6527)+(-0

.0698)His+(-0.0376)Cit+(0.0085)Pro+(0.0101)Tyr+(-0.1112)Trp;0.804,0.830,0.791,0.799,0.782,0.833,0.755,0.792,(3.4527)+(0.0259)Ser+(0.0001)Gln+(-0.0048)Ala+(0.0173)Orn+(-0.1453)Trp;0.804,0.830,0.793,0.802,0.786,0.836,0.750,0.793,(3.9784)+(0.0275)Ser+(0.0031)Thr+(-0.0036)Ala+(-0.0035)Lys+(-0.1411)Trp;0.804,0.827,0.757,0.728,0.743,0.833,0.809,0.778,(6.0335)+(-0.1325)His+(0.0179)Thr+(-0.0068)Ala+(-0.0131)Arg+(0.0569)Ile;0.804,0.839,0.807,0.815,0.823,0.765,0.785,0.797,(3.7916)+(0.0008)Gly+(-0.0174)Arg+(-0.0013)Leu+(0.0812)Phe+(-0.1677)Trp;0.804,0.837,0.791,0.808,0.790,0.748,0.777,0.781,(3.4529)+(-0.0362)Tyr+(0.0105)Orn+(-0.0027)Leu+(0.0863)Phe+(-0.1577)Trp;0.804,0.827,0.771,0.765,0.769,0.850,0.734,0.779,(3.0829)+(0.0309)Ser+(0.0082)Gln+(-0.1430)His+(-0.0212)Cit+(-0.0189)Arg;0.804,0.832,0.793,0.782,0.796,0.797,0.811,0.796,(5.5058)+(0.0024)Pro+(-0.1765)Met+(0.0089)Orn+(0.0602)Ile+(-0.1435)Trp;0.804,0.830,0.806,0.802,0.809,0.841,0.787,0.810,(8.2090)+(0.0033)Gly+(-0.0861)His+(-0.0013)Ala+(0.0234)Tyr+(-0.1015)Trp;0.804,0.832,0.781,0.791,0.792,0.823,0.701,0.777,(3.7384)+(0.0295)Ser+(-0.0224)Arg+(-0.0017)Val+(0.0209)Orn+(-0.1460)Trp;0.804,0.832,0.775,0.782,0.781,0.810,0.721,0.774,(3.2419)+(0.0283)Ser+(-0.0000)Val+(0.0157)Orn+(-0.0073)Lys+(-0.1466)Trp;0.804,0.832,0.802,0.804,0.793,0.825,0.798,0.805,(4.1232)+(0.0382)Ser+(-0.0077)Gly+(-0.0028)Ala+(-0.0036)Tyr+(-0.1423)Trp;0.804,0.828,0.735,0.703,0.746,0.825,0.730,0.751,(4.0122)+(0.0463)Ser+(-0.0543)Asn+(-0.1350)His+(-0.0097)Arg+(0.0207)Leu;0.804,0.831,0.804,0.810,0.801,0.830,0.778,0.805,(4.5323)+(0.0411)Ser+(-0.0075)Gly+(-0.0022)Ala+(-0.0149)Arg+(-0.1397)Trp;0.804,0.829,0.806,0.799,0.810,0.825,0.804,0.810,(8.6226)+(-0.0870)His+(-0.0015)Ala+(0.0023)Arg+(0.0088)Val+(-0.1047)Trp;0.804,0.826,0.742,0.723,0.703,0.815,0.822,0.766,(5.5257)+(0.0014)Gly+(-0.0956)His+(-0.0198)Tyr+(-0.0334)Val+(0.1298)Ile;0.804,0.825,0.750,0.723,0.744,0.840,0.768,0.769,(4.0523)+(0.0435)Ser+(-0

.0042)Gly+(-0.1360)His+(-0.0033)Ala+(0.0069)Val;0.804,0.831,0.809,0.802,0.828,0.807,0.788,0.806,(7.3376)+(-0.0652)Cit+(0.0089)Pro+(-0.0977)Met+(0.0154)Leu+(-0.1475)Trp;0.804,0.832,0.765,0.774,0.764,0.795,0.721,0.764,(3.3353)+(0.0272)Ser+(0.0067)Pro+(-0.0161)Tyr+(-0.0012)Val+(-0.1480)Trp;0.804,0.831,0.745,0.739,0.728,0.786,0.764,0.754,(4.5390)+(-0.1452)His+(0.0220)Thr+(-0.0030)Ala+(-0.0506)Tyr+(0.1057)Phe;0.804,0.828,0.803,0.803,0.830,0.825,0.734,0.798,(7.0891)+(0.0157)Thr+(-0.0769)Cit+(0.0043)Val+(-0.0042)Lys+(-0.1613)Trp;0.804,0.826,0.761,0.734,0.739,0.841,0.819,0.783,(5.6563)+(-0.0207)Asn+(0.0047)Gly+(-0.1220)His+(-0.0063)Ala+(0.0609)Ile;0.804,0.832,0.786,0.765,0.789,0.823,0.811,0.797,(4.5158)+(-0.1227)His+(-0.0025)Ala+(-0.1641)Met+(0.0261)Orn+(0.1056)Phe;0.804,0.831,0.807,0.822,0.825,0.820,0.721,0.797,(7.4704)+(-0.0023)Gly+(0.0305)Thr+(-0.0129)Arg+(-0.1621)Met+(-0.1405)Trp;0.804,0.833,0.795,0.773,0.805,0.817,0.814,0.802,(8.1665)+(-0.0974)His+(0.0012)Arg+(0.0099)Tyr+(0.0232)Leu+(-0.1152)Trp;0.804,0.832,0.808,0.813,0.815,0.841,0.758,0.807,(8.9866)+(-0.0128)Asn+(0.0043)Gly+(-0.0655)His+(-0.0369)Cit+(-0.0971)Trp;0.804,0.831,0.796,0.795,0.821,0.813,0.733,0.791,(6.9799)+(0.0140)Thr+(-0.0722)Cit+(-0.0077)Arg+(0.0069)Pro+(-0.1604)Trp;0.804,0.827,0.837,0.848,0.839,0.846,0.794,0.832,(5.5712)+(0.0059)Gln+(-0.0030)Ala+(-0.0710)Cit+(0.0003)Lys+(-0.1468)Trp;0.804,0.830,0.742,0.722,0.743,0.839,0.727,0.758,(4.2223)+(0.0324)Ser+(-0.1314)His+(-0.0026)Ala+(-0.0094)Tyr+(0.0298)Orn;0.804,0.826,0.744,0.713,0.731,0.814,0.802,0.765,(5.3439)+(-0.1207)His+(0.0089)Thr+(-0.0036)Lys+(0.1009)Ile+(-0.0395)Leu;0.804,0.830,0.770,0.772,0.760,0.773,0.782,0.772,(3.9806)+(0.0018)Gln+(0.0054)Thr+(-0.0279)Tyr+(0.0517)Ile+(-0.1676)Trp;0.804,0.827,0.755,0.736,0.754,0.837,0.749,0.769,(5.0147)+(0.0442)Ser+(-0.0667)Asn+(-0.0043)Gly+(-0.1203)His+(0.0092)Thr;0.804,0.832,0.797,0.774,0.812,0.817,0.810,0.803,(8.3375)+(-0.0838)His+(-0.0430)Cit+(

0.0093)Arg+(0.0262)Leu+(-0.1207)Trp;0.804,0.827,0.783,0.765,0.778,0.831,0.803,0.794,(4.2338)+(-0.0808)Asn+(0.0103)Gln+(-0.1546)His+(0.0135)Thr+(0.0135)Leu;0.804,0.834,0.777,0.771,0.752,0.800,0.827,0.787,(0.2473)+(-0.3243)Met+(-0.0027)Orn+(0.1753)Ile+(-0.0962)Leu+(0.1066)Phe;0.804,0.828,0.734,0.701,0.725,0.813,0.786,0.756,(4.6664)+(0.0026)Gly+(-0.1232)His+(0.0195)Orn+(0.1016)Ile+(-0.0434)Leu;0.804,0.828,0.761,0.747,0.739,0.812,0.811,0.777,(6.1849)+(-0.0158)Asn+(-0.0978)His+(-0.0267)Tyr+(0.1170)Ile+(-0.0468)Leu;0.804,0.830,0.740,0.722,0.741,0.828,0.719,0.753,(4.5480)+(0.0425)Ser+(-0.0633)Asn+(-0.1168)His+(0.0092)Pro+(-0.0127)Tyr;0.804,0.828,0.759,0.751,0.747,0.842,0.744,0.771,(3.1455)+(0.0289)Ser+(0.0062)Gln+(-0.1454)His+(-0.0037)Tyr+(-0.0032)Lys;0.804,0.828,0.803,0.792,0.819,0.815,0.788,0.804,(8.4794)+(-0.0827)His+(-0.0351)Cit+(0.0076)Val+(0.0081)Lys+(-0.1164)Trp;0.804,0.828,0.762,0.744,0.742,0.813,0.812,0.778,(3.4978)+(0.0084)Gln+(-0.1518)His+(-0.0007)Pro+(-0.0264)Tyr+(0.0502)Ile;0.804,0.835,0.770,0.777,0.778,0.808,0.705,0.767,(3.5896)+(0.0324)Ser+(-0.0208)Arg+(0.0071)Pro+(-0.0013)Lys+(-0.1492)Trp;0.804,0.831,0.776,0.783,0.780,0.811,0.725,0.775,(3.1773)+(0.0293)Ser+(-0.0024)Thr+(0.0166)Orn+(-0.0067)Lys+(-0.1455)Trp;0.804,0.827,0.805,0.793,0.789,0.851,0.838,0.818,(4.2443)+(-0.0552)Asn+(0.0113)Gln+(-0.1462)His+(-0.0034)Ala+(0.0166)Leu;0.804,0.834,0.755,0.759,0.758,0.781,0.720,0.754,(2.8737)+(0.0279)Ser+(0.0049)Pro+(-0.0195)Tyr+(0.0093)Leu+(-0.1570)Trp;0.804,0.832,0.779,0.769,0.781,0.797,0.786,0.783,(3.3212)+(0.0437)Ser+(-0.0084)Gly+(-0.0103)Lys+(0.0158)Leu+(-0.1548)Trp;0.804,0.827,0.728,0.686,0.727,0.790,0.796,0.750,(4.0097)+(-0.1592)His+(0.0135)Thr+(-0.0045)Pro+(0.0352)Ile+(0.0525)Phe;0.804,0.831,0.748,0.766,0.751,0.787,0.664,0.742,(-3.0686)+(0.0383)Ser+(0.0173)Thr+(-0.0145)Val+(-0.4121)Met+(0.1360)Phe;0.804,0.827,0.740,0.728,0.731,0.827,0.730,0.754,(2.8477)+(0.0296)Ser+(0.0055)Gln+(-0.1465)His+(0.00

72)Pro+(-0.0167)Tyr;0.804,0.836,0.741,0.710,0.755,0.829,0.731,0.756,(3.4585)+(0.0480)Ser+(-0.1318)His+(-0.0054)Arg+(-0.1530)Met+(0.0299)Leu;0.804,0.835,0.802,0.812,0.817,0.820,0.732,0.795,(6.1605)+(0.0216)Thr+(0.0131)Tyr+(-0.1919)Met+(0.0154)Orn+(-0.1451)Trp;0.804,0.831,0.776,0.743,0.771,0.838,0.834,0.796,(6.1831)+(-0.1126)His+(-0.0053)Ala+(-0.1273)Met+(0.0254)Orn+(0.0629)Ile;0.804,0.831,0.811,0.815,0.825,0.818,0.769,0.807,(5.2314)+(0.0009)Gly+(0.0049)Gln+(-0.0828)Cit+(0.0075)Pro+(-0.1613)Trp;0.804,0.828,0.836,0.848,0.838,0.847,0.790,0.831,(5.5466)+(0.0005)Gly+(0.0059)Gln+(-0.0030)Ala+(-0.0717)Cit+(-0.1465)Trp;0.804,0.827,0.733,0.706,0.750,0.831,0.698,0.746,(4.0676)+(0.0370)Ser+(-0.1378)His+(-0.0182)Arg+(0.0020)Val+(0.0276)Orn;0.804,0.824,0.754,0.743,0.750,0.842,0.731,0.766,(3.0441)+(0.0289)Ser+(0.0064)Gln+(-0.1441)His+(0.0019)Thr+(-0.0368)Cit;0.804,0.828,0.804,0.787,0.813,0.829,0.813,0.810,(8.8683)+(-0.0779)His+(-0.0023)Ala+(-0.0378)Cit+(0.0276)Leu+(-0.1150)Trp;0.804,0.825,0.747,0.729,0.707,0.815,0.830,0.770,(5.7602)+(-0.0932)His+(-0.0002)Pro+(-0.0206)Tyr+(-0.0340)Val+(0.1312)Ile;0.804,0.831,0.833,0.850,0.823,0.846,0.797,0.829,(5.8439)+(-0.1015)Asn+(0.0058)Gln+(0.0172)Thr+(-0.0036)A

la+(-0.1419)Trp;0.804,0.825,0.769,0.762,0.757,0.854,0.752,0.781,(3.2461)+(0.0292)Ser+(0.0067)Gln+(-0.1363)His+(-0.0024)Ala+(-0.0369)Cit;0.804,0.831,0.806,0.811,0.813,0.841,0.755,0.805,(8.7974)+(0.0040)Gly+(-0.0684)His+(-0.0002)Ala+(-0.0364)Cit+(-0.0979)Trp;0.804,0.829,0.795,0.776,0.810,0.813,0.799,0.800,(8.4030)+(-0.0853)His+(-0.0350)Cit+(0.0053)Lys+(0.0229)Leu+(-0.1201)Trp;0.804,0.834,0.778,0.769,0.782,0.791,0.784,0.781,(2.9439)+(0.0378)Ser+(-0.0083)Gly+(0.0087)Orn+(0.0073)Leu+(-0.1627)Trp;0.804,0.826,0.720,0.686,0.730,0.822,0.716,0.738,(3.3844)+(0.0358)Ser+(-0.1417)His+(-0.0041)Thr+(0.0053)Pro+(0.0222)Orn;0.804,0.832,0.816,0.822,0.832,0.845,0.746,0.811,(7.4377)+(0.0178)Thr+(-0.00

35)Ala+(-0.0701)Cit+(-0.0012)Lys+(-0.1485)Trp;0.804,0.831,0.815,0.821,0.830,0.844,0.746,0.810,(7.3191)+(0.0002)Gly+(0.0171)Thr+(-0.0036)Ala+(-0.0704)Cit+(-0.1493)Trp;0.804,0.830,0.797,0.779,0.806,0.816,0.810,0.803,(8.3382)+(0.0130)Asn+(-0.0911)His+(-0.0502)Met+(0.0264)Leu+(-0.1083)Trp;0.804,0.834,0.764,0.767,0.774,0.795,0.710,0.762,(3.1587)+(0.0325)Ser+(-0.0221)Arg+(0.0056)Pro+(0.0086)Leu+(-0.1583)Trp;0.804,0.830,0.792,0.793,0.791,0.812,0.778,0.793,(4.0724)+(0.0394)Ser+(-0.0086)Gly+(0.0034)Thr+(-0.0064)Lys+(-0.1469)Trp;0.804,0.833,0.759,0.760,0.768,0.789,0.716,0.758,(2.9727)+(0.0276)Ser+(-0.0011)Gln+(0.0041)Pro+(0.0087)Orn+(-0.1568)Trp;0.804,0.829,0.754,0.732,0.741,0.812,0.800,0.771,(3.5732)+(0.0076)Gln+(-0.1523)His+(-0.0304)Tyr+(0.0144)Orn+(0.0463)Ile;0.804,0.832,0.817,0.827,0.835,0.829,0.744,0.809,(5.6517)+(0.0047)Gln+(0.0126)Thr+(-0.0717)Cit+(-0.0105)Arg+(-0.1618)Trp;0.804,0.834,0.768,0.779,0.774,0.808,0.700,0.765,(3.7392)+(0.0320)Ser+(-0.0205)Arg+(0.0079)Pro+(-0.0103)Tyr+(-0.1463)Trp;0.804,0.821,0.759,0.757,0.690,0.841,0.850,0.784,(3.5281)+(0.0102)Thr+(-0.0097)Ala+(-0.0290)Arg+(-0.0567)Val+(0.1845)Ile;0.804,0.835,0.784,0.777,0.793,0.754,0.807,0.783,(3.6362)+(-0.0192)Arg+(-0.0008)Pro+(0.0432)Ile+(0.0554)Phe+(-0.1797)Trp;0.804,0.835,0.779,0.759,0.761,0.831,0.829,0.795,(6.2264)+(-0.0881)His+(-0.0037)Tyr+(-0.1454)Met+(0.1325)Ile+(-0.0500)Leu;0.804,0.830,0.792,0.784,0.793,0.801,0.806,0.796,(5.5683)+(-0.0119)Asn+(0.0021)Gly+(-0.1601)Met+(0.0659)Ile+(-0.1418)Trp;0.804,0.823,0.733,0.702,0.735,0.822,0.749,0.752,(3.8162)+(0.0429)Ser+(-0.0047)Gly+(-0.1368)His+(0.0003)Thr+(0.0063)Pro;0.804,0.827,0.711,0.667,0.723,0.818,0.726,0.733,(2.9862)+(0.0372)Ser+(-0.1542)His+(-0.0015)Thr+(0.0172)Orn+(0.0166)Leu;0.804,0.832,0.771,0.783,0.758,0.807,0.743,0.773,(-2.2938)+(0.0527)Ser+(-0.0945)Asn+(-0.0035)Ala+(-0.2764)Met+(0.1107)Phe;0.803,0.833,0.783,0.764,0.788,0.817,0.798,0.792,(4.3502)+(-0.1179)His+(-0.0076)Val+(-0.17

36)Met+(0.0296)Orn+(0.1159)Phe;0.803,0.828,0.749,0.721,0.756,0.785,0.780,0.761,(5.1739)+(-0.0554)Asn+(-0.1439)His+(0.0222)Thr+(-0.0060)Lys+(0.0815)Phe;0.803,0.832,0.802,0.787,0.807,0.823,0.819,0.809,(8.5903)+(-0.0877)His+(-0.0015)Ala+(-0.0311)Met+(0.0265)Leu+(-0.1071)Trp;0.803,0.832,0.797,0.799,0.789,0.849,0.768,0.801,(4.6533)+(-0.0009)Gly+(0.0094)Gln+(-0.1365)His+(0.0225)Thr+(-0.1688)Met;0.803,0.828,0.734,0.710,0.741,0.782,0.748,0.745,(4.2735)+(-0.0728)Asn+(0.0052)Gly+(-0.1482)His+(0.0183)Thr+(0.0854)Phe;0.803,0.825,0.754,0.747,0.741,0.836,0.741,0.766,(3.0782)+(0.0279)Ser+(0.0059)Gln+(-0.1472)His+(0.0010)Thr+(-0.0072)Tyr;0.803,0.833,0.766,0.770,0.772,0.799,0.723,0.766,(3.2149)+(0.0298)Ser+(-0.0001)Gln+(0.0056)Pro+(-0.0064)Lys+(-0.1487)Trp;0.803,0.831,0.810,0.823,0.817,0.822,0.752,0.803,(7.1002)+(-0.0892)Asn+(0.0156)Thr+(-0.0055)Val+(0.0222)Orn+(-0.1330)Trp;0.803,0.828,0.742,0.718,0.742,0.786,0.770,0.754,(4.6219)+(-0.1485)His+(0.0179)Thr+(-0.0058)Val+(-0.0069)Lys+(0.0882)Phe;0.803,0.827,0.770,0.750,0.763,0.815,0.807,0.784,(2.0413)+(0.0097)Gln+(-0.1675)His+(-0.0421)Cit+(0.0006)Leu+(0.0753)Phe;0.803,0.832,0.785,0.787,0.782,0.825,0.753,0.787,(3.4300)+(0.0327)Ser+(-0.0047)Ala+(-0.0162)Arg+(0.0178)Leu+(-0.1514)Trp;0.803,0.835,0.809,0.809,0.802,0.828,0.814,0.813,(6.9130)+(-0.0807)Asn+(-0.0324)Val+(0.0326)Orn+(0.0565)Leu+(-0.1279)Trp;0.803,0.834,0.837,0.845,0.822,0.838,0.848,0.838,(5.5097)+(-0.0980)Asn+(0.0065)Gln+(-0.0264)Val+(0.0510)Leu+(-0.1362)Trp;0.803,0.832,0.820,0.834,0.819,0.815,0.786,0.814,(5.4516)+(-0.1104)Asn+(0.0054)Gln+(0.0139)Thr+(0.0036)Pro+(-0.1471)Trp;0.803,0.831,0.748,0.716,0.735,0.820,0.809,0.770,(5.1806)+(-0.1193)His+(-0.0046)Pro+(0.0232)Orn+(0.1107)Ile+(-0.0471)Leu;0.803,0.833,0.806,0.782,0.820,0.825,0.822,0.812,(8.3594)+(-0.0893)His+(0.0234)Tyr+(-0.0756)Met+(0.0247)Leu+(-0.1135)Trp;0.803,0.828,0.757,0.739,0.751,0.814,0.778,0.770,(1.7313)+(0.0034)Gly+(0.0088)Gln+(-0.1676)His+(-0.0466)C

it+(0.0809)Phe;0.803,0.825,0.765,0.736,0.757,0.823,0.815,0.783,(3.059
5)+(0.0095)Gln+(-0.1540)His+(-0.0460)Cit+(-0.0031)Pro+(0.0513)Ile;0.8
03,0.824,0.715,0.705,0.663,0.812,0.784,0.741,(-0.9435)+(0.0292)Ser+(-
0.0440)Arg+(-0.0599)Val+(0.1613)Ile+(0.0454)Phe;0.803,0.822,0.751,0.7
21,0.747,0.817,0.790,0.769,(2.8221)+(0.0026)Gly+(0.0086)Gln+(-0.1537)
His+(-0.0493)Cit+(0.0490)Ile;0.803,0.833,0.749,0.730,0.735,0.817,0.78
2,0.766,(3.8597)+(0.0042)Gly+(-0.1433)His+(-0.0050)Ala+(0.0227)Orn+(0
.0785)Phe;0.803,0.828,0.798,0.799,0.791,0.848,0.774,0.803,(4.9406)+(-
0.0673)Asn+(0.0116)Gln+(-0.1428)His+(0.0177)Thr+(-0.0208)Arg;0.803,0.
824,0.720,0.707,0.670,0.828,0.781,0.747,(1.0245)+(0.0319)Ser+(-0.0305
)Arg+(-0.0531)Val+(-0.0140)Lys+(0.1676)Ile;0.803,0.831,0.807,0.801,0.
809,0.826,0.806,0.810,(8.1759)+(-0.0886)His+(-0.0015)Ala+(0.0138)Tyr+
(0.0101)Lys+(-0.1075)Trp;0.803,0.831,0.818,0.819,0.833,0.820,0.781,0.
813,(8.1413)+(-0.0238)Asn+(-0.0600)Cit+(0.0105)Pro+(-0.0624)Met+(-0.1
334)Trp;0.803,0.828,0.815,0.814,0.831,0.817,0.783,0.811,(8.0087)+(-0.
0393)Asn+(-0.0667)Cit+(0.0086)Pro+(0.0013)Val+(-0.1426)Trp;0.803,0.82
5,0.742,0.713,0.746,0.827,0.751,0.759,(4.0923)+(0.0448)Ser+(-0.0045)G
ly+(-0.1368)His+(0.0059)Val+(-0.0049)Lys;0.803,0.824,0.754,0.734,0.75
2,0.843,0.743,0.768,(4.5121)+(0.0423)Ser+(-0.0509)Asn+(-0.1246)His+(-
0.0026)Ala+(0.0064)Val;0.803,0.834,0.767,0.771,0.772,0.799,0.723,0.76
6,(3.2075)+(0.0296)Ser+(0.0056)Pro+(-0.0003)Val+(-0.0063)Lys+(-0.1486
)Trp;0.803,0.832,0.775,0.781,0.781,0.810,0.720,0.773,(3.2744)+(0.0285
)Ser+(-0.0001)Gln+(0.0158)Orn+(-0.0073)Lys+(-0.1464)Trp;0.803,0.828,0
.798,0.790,0.808,0.807,0.790,0.799,(8.2652)+(-0.0930)His+(-0.0048)Arg
+(0.0058)Val+(0.0103)Lys+(-0.1107)Trp;0.803,0.826,0.760,0.745,0.737,0
.823,0.801,0.776,(6.1616)+(-0.0903)His+(-0.0407)Cit+(-0.0272)Tyr+(0.1
242)Ile+(-0.0498)Leu;0.803,0.832,0.735,0.707,0.757,0.838,0.689,0.748,
(4.3819)+(0.0331)Ser+(-0.1238)His+(-0.0670)Cit+(-0.0191)Tyr+(0.0487)O

rn;0.803,0.828,0.792,0.782,0.796,0.797,0.809,0.796,(5.4870)+(-0.1714)Met+(0.0097)Orn+(0.0003)Lys+(0.0622)Ile+(-0.1439)Trp;0.803,0.829,0.834,0.849,0.814,0.841,0.827,0.833,(5.5035)+(-0.0770)Asn+(0.0062)Gln+(-0.0055)Ala+(0.0096)Pro+(-0.1346)Trp;0.803,0.826,0.770,0.744,0.764,0.830,0.807,0.787,(3.0626)+(0.0110)Gln+(-0.1547)His+(-0.0355)Cit+(-0.0154)Arg+(0.0478)Ile;0.803,0.830,0.765,0.768,0.771,0.794,0.724,0.764,(3.1791)+(0.0278)Ser+(-0.0006)Gln+(0.0055)Pro+(-0.0020)Val+(-0.1527)Trp;0.803,0.830,0.781,0.779,0.771,0.822,0.775,0.787,(2.9572)+(0.0293)Ser+(-0.0002)Thr+(-0.0055)Ala+(0.0172)Leu+(-0.1551)Trp;0.803,0.829,0.744,0.716,0.757,0.836,0.728,0.759,(4.3330)+(0.0421)Ser+(-0.0044)Gly+(-0.1332)His+(-0.0177)Arg+(0.0294)Orn;0.803,0.824,0.734,0.705,0.722,0.809,0.784,0.755,(4.8173)+(0.0025)Gly+(-0.1235)His+(0.0054)Thr+(0.1018)Ile+(-0.0404)Leu;0.803,0.833,0.821,0.836,0.821,0.821,0.782,0.815,(5.4005)+(-0.1095)Asn+(0.0052)Gln+(0.0131)Thr+(0.0122)Orn+(-0.1460)Trp;0.803,0.831,0.789,0.796,0.781,0.833,0.756,0.792,(3.4105)+(0.0263)Ser+(-0.0049)Ala+(0.0009)Val+(0.0167)Orn+(-0.1463)Trp;0.803,0.828,0.734,0.710,0.751,0.831,0.692,0.746,(4.2792)+(0.0350)Ser+(-0.1365)His+(0.0039)Thr+(-0.0197)Arg+(0.0281)Orn;0.803,0.838,0.818,0.833,0.810,0.789,0.813,0.811,(4.2114)+(-0.0046)Ala+(-0.0122)Arg+(-0.0193)Tyr+(0.0982)Phe+(-0.1521)Trp;0.803,0.829,0.816,0.821,0.828,0.819,0.773,0.810,(5.3619)+(0.0055)Gln+(-0.0777)Cit+(-0.0062)Arg+(0.0077)Pro+(-0.1598)Trp;0.803,0.826,0.731,0.698,0.725,0.791,0.789,0.750,(4.3050)+(-0.1515)His+(0.0164)Thr+(-0.0218)Val+(0.0328)Leu+(0.0724)Phe;0.803,0.826,0.754,0.739,0.730,0.808,0.806,0.771,(5.7557)+(-0.1050)His+(-0.0300)Tyr+(0.0031)Lys+(0.1161)Ile+(-0.0470)Leu;0.803,0.840,0.805,0.811,0.821,0.767,0.780,0.795,(3.9503)+(-0.0188)Arg+(0.0138)Orn+(-0.0020)Lys+(0.0730)Phe+(-0.1659)Trp;0.803,0.830,0.789,0.779,0.794,0.799,0.802,0.793,(5.2642)+(0.0015)Gly+(-0.1752)Met+(0.0087)Orn+(0.0636)Ile+(-0.1432)Trp;0.803,0.826,0.7

44,0.729,0.736,0.843,0.730,0.759,(4.2868)+(0.0406)Ser+(-0.1224)His+(-0.0052)Ala+(-0.0155)Arg+(0.0122)Pro;0.803,0.839,0.823,0.832,0.820,0.795,0.823,0.818,(4.1408)+(-0.0055)Ala+(-0.0152)Arg+(0.0018)Lys+(0.0892)Phe+(-0.1591)Trp;0.803,0.831,0.794,0.784,0.795,0.793,0.814,0.797,(5.5894)+(0.0029)Pro+(-0.1776)Met+(0.0019)Lys+(0.0616)Ile+(-0.1450)Trp;0.803,0.829,0.738,0.703,0.728,0.810,0.799,0.760,(4.9229)+(-0.1249)His+(0.0047)Thr+(0.0188)Orn+(0.0988)Ile+(-0.0428)Leu;0.803,0.827,0.833,0.839,0.839,0.843,0.799,0.830,(5.3308)+(0.0059)Gln+(-0.0042)Ala+(-0.0786)Cit+(0.0069)Val+(-0.1565)Trp;0.803,0.833,0.795,0.795,0.790,0.850,0.767,0.800,(4.4784)+(0.0094)Gln+(-0.1389)His+(0.0219)Thr+(0.0094)Tyr+(-0.1834)Met;0.803,0.830,0.795,0.806,0.785,0.835,0.758,0.796,(3.5611)+(0.0262)Ser+(0.0008)Gln+(0.0009)Thr+(-0.0039)Ala+(-0.1445)Trp;0.803,0.831,0.794,0.794,0.800,0.816,0.764,0.793,(8.0494)+(0.0030)Gly+(-0.0902)His+(-0.0083)Arg+(0.0130)Lys+(-0.1033)Trp;0.803,0.829,0.806,0.811,0.805,0.835,0.772,0.806,(8.6535)+(-0.0118)Asn+(0.0030)Gly+(-0.0774)His+(0.0012)Arg+(-0.0933)Trp;0.803,0.828,0.814,0.812,0.830,0.819,0.785,0.811,(7.9651)+(-0.0455)Asn+(-0.0693)Cit+(0.0064)Arg+(0.0087)Pro+(-0.1411)Trp;0.803,0.836,0.799,0.816,0.803,0.759,0.777,0.789,(3.9435)+(0.0004)Gly+(-0.0138)Arg+(-0.0285)Tyr+(0.0942)Phe+(-0.1583)Trp;0.803,0.827,0.765,0.727,0.751,0.839,0.838,0.789,(5.8636)+(-0.1244)His+(-0.0067)Ala+(0.0248)Orn+(-0.0044)Lys+(0.0544)Ile;0.803,0.827,0.805,0.802,0.817,0.822,0.777,0.805,(6.7651)+(0.0034)Gly+(-0.0045)Ala+(-0.0755)Cit+(0.0230)Leu+(-0.1542)Trp;0.803,0.826,0.757,0.742,0.732,0.811,0.808,0.773,(5.9299)+(-0.1027)His+(-0.0012)Pro+(-0.0268)Tyr+(0.1182)Ile+(-0.0464)Leu;0.803,0.832,0.811,0.803,0.819,0.847,0.786,0.814,(8.2285)+(0.0041)Gly+(-0.0819)His+(0.0332)Tyr+(-0.0659)Met+(-0.1011)Trp;0.803,0.830,0.790,0.797,0.783,0.832,0.756

,0.792,(3.6247)+(0.0300)Ser+(-0.0041)Ala+(0.0043)Val+(-0.0043)Lys+(-0

.1439)Trp;0.803,0.827,0.748,0.724,0.712,0.817,0.836,0.772,(5.5448)+(-0.0968)His+(-0.0017)Pro+(-0.0348)Val+(-0.0024)Lys+(0.1314)Ile;0.803,0.832,0.798,0.805,0.796,0.855,0.741,0.799,(4.8533)+(0.0107)Gln+(-0.1375)His+(0.0265)Thr+(-0.0211)Arg+(-0.1558)Met;0.803,0.824,0.735,0.701,0.736,0.838,0.750,0.756,(3.6395)+(0.0413)Ser+(-0.1365)His+(-0.0048)Ala+(-0.0364)Cit+(0.0257)Leu;0.803,0.831,0.781,0.792,0.793,0.818,0.704,0.777,(3.3966)+(0.0288)Ser+(0.0009)Gln+(-0.0233)Arg+(0.0185)Orn+(-0.1501)Trp;0.803,0.824,0.753,0.733,0.743,0.844,0.759,0.770,(4.5364)+(0.0402)Ser+(-0.0049)Gly+(-0.1295)His+(0.0057)Thr+(-0.0023)Ala;0.803,0.831,0.798,0.810,0.788,0.838,0.760,0.799,(3.6181)+(0.0273)Ser+(0.0012)Gln+(-0.0036)Ala+(-0.0032)Lys+(-0.1410)Trp;0.803,0.827,0.732,0.702,0.738,0.819,0.735,0.749,(3.9906)+(0.0448)Ser+(-0.0596)Asn+(-0.1344)His+(-0.0107)Tyr+(0.0223)Leu;0.803,0.824,0.746,0.720,0.715,0.821,0.825,0.770,(5.5859)+(-0.0881)His+(-0.0364)Cit+(-0.0314)Val+(0.1404)Ile+(-0.0130)Leu;0.803,0.833,0.778,0.787,0.790,0.817,0.698,0.773,(3.6386)+(0.0292)Ser+(0.0015)Thr+(-0.0231)Arg+(0.0187)Orn+(-0.1498)Trp;0.803,0.823,0.715,0.678,0.731,0.816,0.708,0.734,(3.3433)+(0.0423)Ser+(-0.1458)His+(-0.0159)Arg+(0.0046)Pro+(0.0166)Leu;0.803,0.823,0.736,0.713,0.732,0.820,0.745,0.752,(4.1810)+(0.0440)Ser+(-0.0056)Gly+(-0.1272)His+(0.0086)Pro+(-0.0210)Tyr;0.803,0.834,0.800,0.782,0.809,0.818,0.819,0.807,(8.3048)+(-0.0901)His+(0.0063)Arg+(-0.0515)Met+(0.0263)Leu+(-0.1083)Trp;0.803,0.829,0.805,0.817,0.810,0.813,0.756,0.799,(7.2691)+(-0.0872)Asn+(0.0174)Thr+(0.0058)Pro+(-0.0048)Val+(-0.1358)Trp;0.803,0.829,0.802,0.794,0.811,0.818,0.796,0.805,(8.5348)+(-0.0001)Asn+(-0.0882)His+(0.0015)Arg+(0.0080)Val+(-0.1058)Trp;0.803,0.823,0.709,0.667,0.719,0.814,0.727,0.732,(2.9605)+(0.0390)Ser+(-0.1530)His+(-0.0003)Thr+(0.0033)Pro+(0.0174)Leu;0.803,0.831,0.789,0.799,0.781,0.833,0.751,0.791,(3.5512)+(0.0260)Ser+(-0.0045)Ala+(-0.0042)Tyr+(0.0181)Orn+(-0.1437)Trp;0.80

3,0.830,0.780,0.780,0.777,0.786,0.784,0.782,(5.1462)+(0.0087)Thr+(0.0039)Pro+(-0.0261)Val+(0.0473)Leu+(-0.1598)Trp;0.803,0.822,0.737,0.710,0.711,0.820,0.804,0.761,(5.1600)+(0.0033)Gly+(-0.0947)His+(-0.0401)Cit+(-0.0335)Val+(0.1289)Ile;0.803,0.834,0.782,0.759,0.771,0.840,0.822,0.798,(6.4377)+(-0.0786)His+(-0.0374)Cit+(-0.1426)Met+(0.1371)Ile+(-0.0530)Leu;0.803,0.832,0.779,0.759,0.762,0.834,0.828,0.796,(6.2586)+(-0.0875)His+(-0.0022)Arg+(-0.1477)Met+(0.1330)Ile+(-0.0508)Leu;0.803,0.832,0.832,0.850,0.827,0.834,0.798,0.827,(5.1313)+(-0.0589)Asn+(0.0066)Gln+(-0.1044)Met+(0.0213)Orn+(-0.1325)Trp;0.803,0.830,0.809,0.821,0.813,0.811,0.772,0.804,(6.8769)+(-0.0703)Asn+(0.0060)Pro+(-0.0063)Val+(0.0263)Orn+(-0.1257)Trp;0.803,0.827,0.760,0.728,0.744,0.841,0.821,0.783,(5.8890)+(-0.1206)His+(0.0157)Thr+(-0.0081)Ala+(-0.0499)Cit+(0.0627)Ile;0.803,0.825,0.731,0.693,0.740,0.821,0.744,0.750,(3.6395)+(0.0467)Ser+(-0.0036)Gly+(-0.1446)His+(-0.0134)Arg+(0.0189)Leu;0.803,0.830,0.790,0.788,0.790,0.803,0.787,0.792,(3.5962)+(0.0385)Ser+(-0.0082)Gly+(-0.0003)Thr+(0.0002)Val+(-0.1525)Trp;0.803,0.828,0.797,0.790,0.783,0.815,0.831,0.805,(5.4267)+(-0.0079)Ala+(-0.0136)Arg+(0.0129)Orn+(0.0642)Ile+(-0.1526)Trp;0.803,0.832,0.779,0.770,0.782,0.789,0.792,0.783,(3.0005)+(0.0397)Ser+(-0.0080)Gly+(-0.0020)Thr+(0.0097)Leu+(-0.1607)Trp;0.802,0.826,0.748,0.723,0.733,0.818,0.796,0.767,(5.3493)+(-0.0329)Asn+(0.0041)Gly+(-0.1085)His+(0.1091)Ile+(-0.0440)Leu;0.802,0.828,0.775,0.751,0.786,0.806,0.797,0.785,(4.1402)+(0.0172)Asn+(-0.1289)His+(-0.1945)Met+(0.0243)Orn+(0.1073)Phe;0.802,0.827,0.754,0.743,0.749,0.846,0.725,0.766,(5.1031)+(0.0379)Ser+(-0.0669)Asn+(-0.1177)His+(0.0100)Thr+(-0.0017)Ala;0.802,0.823,0.748,0.721,0.715,0.822,0.830,0.772,(5.6667)+(-0.0913)His+(-0.0340)Cit+(-0.0013)Pro+(-0.0349)Val+(0.1322)Ile;0.802,0.829,0.792,0.805,0.794,0.837,0.719,0.789,(4.4157)+(0.0281)Ser+(0.0074)Thr+(-0.0033)Ala+(-0.0188)Arg+(-0.1429)Trp;0.802,0.829,0.8

14,0.822,0.804,0.828,0.801,0.814,(6.7958)+(-0.0556)Asn+(-0.0059)Ala+(0.0093)Pro+(0.0229)Orn+(-0.1295)Trp;0.802,0.827,0.838,0.850,0.840,0.848,0.792,0.833,(5.6011)+(0.0061)Gln+(-0.0029)Ala+(-0.0695)Cit+(-0.0024)Arg+(-0.1461)Trp;0.802,0.830,0.807,0.813,0.806,0.835,0.771,0.806,(8.6976)+(-0.0089)Asn+(0.0030)Gly+(-0.0764)His+(-0.0080)Met+(-0.0925)Trp;0.802,0.828,0.738,0.715,0.743,0.829,0.724,0.753,(4.2569)+(0.0429)Ser+(-0.0651)Asn+(-0.1237)His+(0.0073)Pro+(0.0013)Val;0.802,0.831,0.798,0.785,0.803,0.800,0.819,0.802,(5.5463)+(0.0022)Pro+(0.0135)Tyr+(-0.1923)Met+(0.0626)Ile+(-0.1464)Trp;0.802,0.828,0.790,0.782,0.791,0.798,0.803,0.794,(5.3047)+(0.0018)Gly+(-0.1754)Met+(0.0016)Lys+(0.0659)Ile+(-0.1442)Trp;0.802,0.825,0.747,0.729,0.707,0.816,0.829,0.770,(5.7640)+(-0.0930)His+(-0.0206)Tyr+(-0.0340)Val+(-0.0002)Lys+(0.1311)Ile;0.802,0.831,0.792,0.792,0.790,0.804,0.789,0.794,(3.4660)+(0.0380)Ser+(-0.0082)Gly+(0.0005)Gln+(-0.0007)Thr+(-0.1527)Trp;0.802,0.829,0.802,0.818,0.797,0.841,0.740,0.799,(3.7200)+(0.0285)Ser+(0.0022)Gln+(-0.0031)Ala+(-0.0175)Arg+(-0.1411)Trp;0.802,0.829,0.774,0.785,0.774,0.806,0.723,0.772,(3.1664)+(0.0276)Ser+(-0.0036)Thr+(-0.0122)Tyr+(0.0158)Orn+(-0.1471)Trp;0.802,0.823,0.789,0.775,0.781,0.838,0.809,0.800,(3.9469)+(-0.0633)Asn+(0.0015)Gly+(0.0111)Gln+(-0.1505)His+(0.0138)Leu;0.802,0.831,0.752,0.743,0.738,0.791,0.774,0.762,(4.5244)+(-0.1310)His+(-0.0437)Tyr+(-0.0065)Val+(0.0325)Orn+(0.0993)Phe;0.802,0.826,0.758,0.731,0.735,0.838,0.819,0.781,(5.4628)+(0.0042)Gly+(-0.1248)His+(-0.0065)Ala+(-0.0021)Lys+(0.0620)Ile;0.802,0.828,0.766,0.730,0.752,0.838,0.838,0.790,(5.9156)+(-0.0149)Asn+(-0.1245)His+(-0.0067)Ala+(0.0237)Orn+(0.0516)Ile;0.802,0.822,0.754,0.731,0.756,0.833,0.756,0.769,(4.5514)+(0.0472)Ser+(-0.0541)Asn+(-0.0039)Gly+(-0.1239)His+(0.0039)Val;0.802,0.831,0.767,0.746,0.758,0.815,0.807,0.781,(5.2289)+(-0.0592)Asn+(-0.1378)His+(0.0216)Thr+(-0.0049)Ala+(0.0848)Phe;0.802,0.830,0.801,0.818,0.82

0,0.819,0.705,0.790,(7.0825)+(0.0287)Thr+(-0.0133)Arg+(0.0008)Val+(-0.1626)Met+(-0.1405)Trp;0.802,0.828,0.794,0.808,0.791,0.835,0.734,0.792,(4.1734)+(0.0308)Ser+(-0.0029)Ala+(-0.0163)Arg+(0.0016)Lys+(-0.1397)Trp;0.802,0.828,0.823,0.840,0.808,0.829,0.804,0.820,(4.9598)+(0.0057)Gln+(-0.0044)Ala+(0.0121)Pro+(-0.1416)Met+(-0.1313)Trp;0.802,0.824,0.747,0.723,0.745,0.836,0.749,0.763,(4.5322)+(0.0413)Ser+(-0.0051)Gly+(-0.1314)His+(0.0057)Thr+(-0.0035)Lys;0.802,0.822,0.737,0.706,0.739,0.825,0.748,0.755,(3.9073)+(0.0420)Ser+(-0.0045)Gly+(-0.1415)His+(0.0026)Thr+(0.0042)Val;0.802,0.835,0.762,0.757,0.771,0.798,0.730,0.764,(2.7016)+(0.0314)Ser+(0.0117)Orn+(-0.0112)Lys+(0.0142)Leu+(-0.1553)Trp;0.802,0.830,0.805,0.810,0.807,0.834,0.769,0.805,(8.5747)+(0.0029)Gly+(-0.0778)His+(0.0002)Ala+(-0.0158)Met+(-0.0929)Trp;0.802,0.828,0.763,0.766,0.758,0.783,0.753,0.765,(-2.4673)+(0.0616)Ser+(-0.0915)Asn+(-0.0053)Gly+(-0.3068)Met+(0.1063)Phe;0.802,0.827,0.771,0.751,0.763,0.816,0.807,0.784,(2.0476)+(0.0097)Gln+(-0.1673)His+(-0.0421)Cit+(-0.0000)Pro+(0.0760)Phe;0.802,0.838,0.806,0.813,0.822,0.764,0.785,0.796,(3.7905)+(0.0009)Gly+(-0.0171)Arg+(-0.0005)Lys+(0.0804)Phe+(-0.1682)Trp;0.802,0.825,0.744,0.725,0.734,0.852,0.737,0.762,(4.2195)+(0.0390)Ser+(-0.1174)His+(-0.0063)Ala+(-0.0382)Cit+(0.0127)Pro;0.802,0.829,0.774,0.748,0.785,0.802,0.802,0.784,(4.2163)+(-0.1233)His+(0.0049)Pro+(-0.1963)Met+(0.0218)Orn+(0.1037)Phe;0.802,0.824,0.723,0.692,0.731,0.823,0.714,0.740,(3.6727)+(0.0388)Ser+(-0.1398)His+(0.0057)Pro+(0.0043)Val+(-0.0051)Lys;0.802,0.827,0.796,0.777,0.812,0.816,0.800,0.801,(8.6325)+(0.0033)Asn+(-0.0820)His+(-0.0366)Cit+(0.0255)Leu+(-0.1179)Trp;0.802,0.829,0.774,0.778,0.777,0.805,0.732,0.773,(2.9392)+(0.0290)Ser+(-0.0004)Gln+(-0.0053)Thr+(0.0142)Orn+(-0.1508)Trp;0.802,0.827,0.805,0.806,0.809,0.810,0.792,0.804,(8.6380)+(-0.0194)Asn+(-0.0830)His+(-0.0053)Arg+(0.0135)Lys+(-0.1040)Trp;0.802,0.829,0.802,0.790,0.789,0.848,0.825,

0.813,(3.7647)+(0.0113)Gln+(-0.1460)His+(-0.0020)Ala+(-0.1282)Met+(0.0227)Leu;0.802,0.827,0.717,0.682,0.729,0.820,0.713,0.736,(3.3988)+(0.0342)Ser+(-0.1450)His+(0.0046)Pro+(0.0007)Val+(0.0201)Orn;0.802,0.827,0.738,0.717,0.727,0.796,0.774,0.753,(6.3523)+(-0.0386)Asn+(-0.1295)His+(0.0207)Thr+(-0.0362)Tyr+(0.0520)Ile;0.802,0.838,0.793,0.809,0.793,0.755,0.781,0.784,(3.6358)+(-0.0343)Tyr+(0.0121)Orn+(-0.0044)Lys+(0.0863)Phe+(-0.1556)Trp;0.802,0.832,0.798,0.780,0.801,0.823,0.821,0.806,(8.5381)+(-0.0828)His+(-0.0175)Val+(-0.0471)Met+(0.0537)Leu+(-0.1040)Trp;0.802,0.831,0.790,0.773,0.788,0.839,0.803,0.801,(3.6418)+(0.0104)Gln+(-0.1485)His+(-0.1421)Met+(0.0183)Orn+(0.0181)Leu;0.802,0.829,0.803,0.792,0.795,0.843,0.820,0.812,(3.7917)+(-0.0228)Asn+(0.0120)Gln+(-0.1453)His+(-0.1220)Met+(0.0202)Leu;0.802,0.827,0.776,0.778,0.766,0.772,0.795,0.778,(3.9161)+(0.0023)Gln+(-0.0250)Tyr+(0.0023)Orn+(0.0515)Ile+(-0.1654)Trp;0.802,0.824,0.723,0.685,0.720,0.796,0.778,0.745,(3.4376)+(0.0051)Gly+(-0.1533)His+(-0.0030)Pro+(0.0373)Ile+(0.0576)Phe;0.802,0.823,0.759,0.761,0.698,0.827,0.829,0.779,(5.8284)+(-0.1487)Asn+(0.0203)Thr+(-0.0341)Tyr+(-0.0561)Val+(0.1712)Ile;0.802,0.832,0.775,0.785,0.779,0.813,0.714,0.773,(3.4565)+(0.0279)Ser+(-0.0104)Tyr+(0.0176)Orn+(-0.0064)Lys+(-0.1431)Trp;0.802,0.832,0.707,0.687,0.715,0.770,0.697,0.717,(-5.3382)+(0.0499)Ser+(0.0098)Thr+(-0.4815)Met+(0.0540)Ile+(0.0892)Phe;0.802,0.825,0.709,0.666,0.713,0.780,0.766,0.731,(3.2282)+(0.0041)Gly+(-0.1607)His+(0.0093)Thr+(0.0315)Ile+(0.0553)Phe;0.802,0.829,0.746,0.726,0.727,0.784,0.807,0.761,(4.7416)+(-0.1347)His+(-0.0474)Tyr+(-0.0028)Lys+(0.0404)Ile+(0.0794)Phe;0.802,0.824,0.735,0.710,0.710,0.815,0.795,0.758,(5.8255)+(-0.1012)His+(0.0177)Thr+(-0.0249)Arg+(-0.0384)Val+(0.1369)Ile;0.802,0.829,0.794,0.785,0.796,0.797,0.812,0.798,(5.7819)+(-0.0026)Arg+(0.0030)Pro+(-0.1680)Met+(0.0624)Ile+(-0.1430)Trp;0.802,0.827,0.808,0.802,0.813,0.826,0.802,0.811,(8.7772)+(-0.

0841)His+(-0.0011)Ala+(0.0088)Val+(-0.0155)Met+(-0.1032)Trp;0.802,0.827,0.824,0.829,0.839,0.828,0.780,0.819,(5.2956)+(0.0058)Gln+(-0.0806)Cit+(0.0051)Val+(-0.0033)Lys+(-0.1606)Trp;0.802,0.824,0.773,0.769,0.720,0.837,0.849,0.794,(6.1628)+(-0.0991)Asn+(-0.0471)Cit+(-0.0229)Tyr+(-0.0515)Val+(0.1656)Ile;0.802,0.831,0.809,0.804,0.814,0.819,0.806,0.811,(8.4280)+(-0.0242)Asn+(-0.0853)His+(0.0115)Tyr+(0.0113)Lys+(-0.1080)Trp;0.802,0.829,0.778,0.784,0.780,0.809,0.736,0.777,(2.9631)+(0.0281)Ser+(-0.0052)Thr+(-0.0014)
Val+(0.0150)Orn+(-0.1492)Trp;0.802,0.823,0.789,0.782,0.779,0.837,0.794,0.798,(4.5930)+(-0.0791)Asn+(0.0102)Gln+(-0.1428)His+(0.0122)Thr+(0.0034)Pro;0.802,0.831,0.790,0.794,0.786,0.805,0.779,0.791,(4.0398)+(0.0378)Ser+(-0.0086)Gly+(0.0025)Thr+(-0.0135)Tyr+(-0.1474)Trp;0.802,0.831,0.781,0.781,0.778,0.795,0.780,0.784,(4.9735)+(0.0069)Thr+(-0.0277)Val+(0.0175)Orn+(0.0486)Leu+(-0.1580)Trp;0.802,0.829,0.746,0.707,0.748,0.830,0.784,0.767,(5.2355)+(-0.1052)His+(-0.0679)Cit+(0.0403)Orn+(0.1097)Ile+(-0.0513)Leu;0.802,0.831,0.734,0.711,0.742,0.829,0.707,0.747,(4.2174)+(0.0332)Ser+(-0.1329)His+(-0.0120)Tyr+(0.0299)Orn+(-0.0035)Lys;0.802,0.830,0.796,0.795,0.774,0.814,0.831,0.803,(5.9125)+(-0.0071)Ala+(0.0107)Pro+(-0.0247)Val+(0.0515)Leu+(-0.1436)Trp;0.802,0.832,0.804,0.798,0.818,0.843,0.764,0.806,(8.3271)+(0.0047)Gly+(-0.0763)His+(-0.0409)Cit+(0.0251)Tyr+(-0.1089)Trp;0.802,0.831,0.766,0.756,0.688,0.839,0.902,0.796,(2.1418)+(-0.0106)Ala+(-0.0530)Val+(-0.0140)Lys+(0.1733)Ile+(0.0468)Phe;0.802,0.830,0.797,0.784,0.803,0.802,0.814,0.801,(5.4000)+(0.0128)Tyr+(-0.1901)Met+(0.0081)Orn+(0.0622)Ile+(-0.1463)Trp;0.802,0.826,0.800,0.791,0.821,0.799,0.780,0.798,(6.8894)+(-0.0761)Cit+(0.0067)Pro+(-0.0018)Lys+(0.0136)Leu+(-0.1607)Trp;0.802,0.825,0.742,0.745,0.682,0.794,0.822,0.761,(1.8632)+(-0.0706)Cit+(-0.0685)Tyr+(-0.0506)Val+(0.1504)Ile+(0.0749)Phe;0.802,0.823,0.718,0.683,0.734,0.81

9,0.702,0.735,(3.5960)+(0.0397)Ser+(-0.1499)His+(0.0066)Thr+(-0.0168)Arg+(0.0191)Leu;0.802,0.831,0.773,0.763,0.715,0.824,0.882,0.796,(3.8411)+(-0.1484)Asn+(-0.0605)Val+(-0.0009)Lys+(0.1634)Ile+(0.0632)Phe;0.802,0.829,0.797,0.788,0.799,0.796,0.816,0.800,(5.7907)+(-0.0107)Asn+(-0.1602)Met+(0.0023)Lys+(0.0635)Ile+(-0.1444)Trp;0.802,0.831,0.824,0.841,0.824,0.823,0.784,0.818,(5.5314)+(-0.1097)Asn+(0.0056)Gln+(0.0149)Thr+(0.0007)Lys+(-0.1466)Trp;0.802,0.830,0.781,0.780,0.771,0.822,0.777,0.787,(2.9139)+(0.0289)Ser+(0.0002)Gln+(-0.0056)Ala+(0.0170)Leu+(-0.1555)Trp;0.802,0.830,0.792,0.796,0.785,0.798,0.793,0.793,(4.6365)+(0.0015)Gln+(-0.0262)Val+(0.0192)Orn+(0.0463)Leu+(-0.1553)Trp;0.802,0.828,0.719,0.694,0.725,0.819,0.699,0.734,(3.7967)+(0.0335)Ser+(-0.1358)His+(0.0070)Pro+(-0.0232)Tyr+(0.0251)Orn;0.802,0.831,0.830,0.843,0.831,0.821,0.801,0.824,(5.7500)+(-0.1075)Asn+(-0.0021)Gly+(0.0058)Gln+(0.0162)Thr+(-0.1476)Trp;0.802,0.827,0.789,0.782,0.814,0.800,0.751,0.787,(6.3139)+(0.0030)Gly+(-0.0820)Cit+(0.0067)Pro+(0.0135)Leu+(-0.1640)Trp;0.802,0.833,0.831,0.837,0.818,0.832,0.838,0.831,(4.7369)+(0.0059)Gln+(-0.0252)Val+(-0.1670)Met+(0.0562)Leu+(-0.1357)Trp;0.802,0.830,0.798,0.790,0.781,0.817,0.837,0.807,(5.3305)+(0.0012)Gly+(-0.0078)Ala+(-0.0111)Arg+(0.0690)Ile+(-0.1528)Trp;0.802,0.830,0.803,0.808,0.803,0.833,0.770,0.804,(8.5197)+(0.0027)Gly+(-0.0798)His+(-0.0001)Ala+(0.0001)Arg+(-0.0940)Trp;0.802,0.831,0.792,0.794,0.785,0.846,0.761,0.797,(4.4420)+(0.0091)Gln+(-0.1377)His+(0.0215)Thr+(-0.1787)Met+(0.0035)Lys;0.802,0.823,0.758,0.748,0.752,0.842,0.736,0.770,(3.1216)+(0.0292)Ser+(0.0066)Gln+(-0.1403)His+(-0.0357)Cit+(-0.0054)Tyr;0.802,0.827,0.732,0.699,0.730,0.793,0.780,0.751,(3.8246)+(-0.0459)Asn+(0.0064)Gly+(-0.1427)His+(0.0334)Ile+(0.0635)Phe;0.802,0.827,0.778,0.779,0.767,0.773,0.798,0.779,(3.9113)+(0.0025)Gln+(-0.0007)Pro+(-0.0238)Tyr+(0.0530)Ile+(-0.1657)Trp;0.802,0.831,0.834,0.851,0.826,0.836,0.804,0.829,(5.458

5)+(-0.0925)Asn+(0.0058)Gln+(-0.0047)Val+(0.0226)Orn+(-0.1316)Trp;0.802,0.830,0.810,0.810,0.827,0.810,0.774,0.805,(7.2125)+(-0.0600)Cit+(0.0108)Pro+(-0.1152)Met+(0.0083)Lys+(-0.1417)Trp;0.802,0.823,0.793,0.790,0.782,0.842,0.792,0.801,(4.7605)+(-0.0783)Asn+(0.0000)Gly+(0.0102)Gln+(-0.1415)His+(0.0133)Thr;0.802,0.832,0.755,0.750,0.764,0.782,0.728,0.756,(2.7205)+(0.0290)Ser+(-0.0010)Gln+(0.0036)Pro+(0.0082)Leu+(-0.1628)Trp;0.801,0.831,0.795,0.782,0.801,0.806,0.809,0.799,(5.1177)+(0.0023)Gly+(0.0174)Tyr+(-0.2006)Met+(0.0661)Ile+(-0.1466)Trp;0.801,0.825,0.743,0.719,0.741,0.840,0.738,0.760,(4.0216)+(0.0389)Ser+(-0.1366)His+(-0.0032)Ala+(0.0083)Val+(-0.0032)Lys;0.801,0.825,0.767,0.753,0.759,0.844,0.766,0.780,(5.0647)+(0.0465)Ser+(-0.0536)Asn+(-0.0043)Gly+(-0.1125)His+(-0.0013)Ala;0.801,0.830,0.806,0.792,0.823,0.822,0.795,0.808,(8.6277)+(-0.0776)His+(-0.0438)Cit+(0.0084)Arg+(0.0097)Val+(-0.1151)Trp;0.801,0.828,0.806,0.809,0.828,0.830,0.732,0.800,(7.1321)+(0.0002)Gly+(0.0156)Thr+(-0.0722)Cit+(-0.0023)Lys+(-0.1552)Trp;0.801,0.827,0.800,0.792,0.787,0.851,0.812,0.810,(4.6434)+(-0.0584)Asn+(0.0100)Gln+(-0.1361)His+(-0.0028)Ala+(0.0255)Orn;0.801,0.827,0.742,0.723,0.750,0.833,0.710,0.754,(4.5663)+(0.0445)Ser+(-0.0556)Asn+(-0.1189)His+(-0.0127)Arg+(0.0085)Pro;0.801,0.830,0.815,0.815,0.829,0.817,0.786,0.812,(5.0611)+(0.0053)Gln+(-0.0806)Cit+(-0.0052)Tyr+(0.0150)Leu+(-0.1675)Trp;0.801,0.827,0.784,0.773,0.779,0.837,0.786,0.794,(4.5758)+(-0.0780)Asn+(0.0095)Gln+(-0.1440)His+(0.0109)Thr+(0.0189)Orn;0.801,0.823,0.765,0.743,0.761,0.822,0.789,0.779,(3.9356)+(0.0086)Gln+(-0.1636)His+(0.0104)Thr+(-0.0082)Lys+(0.0167)Leu;0.801,0.832,0.764,0.762,0.770,0.798,0.734,0.766,(2.8321)+(0.0321)Ser+(0.0002)Thr+(-0.0098)Lys+(0.0160)Leu+(-0.1558)Trp;0.801,0.830,0.780,0.779,0.772,0.823,0.770,0.786,(2.8725)+(0.0278)Ser+(-0.0061)Ala+(0.0121)Orn+(0.0147)Leu+(-0.1554)Trp;0.801,0.826,0.814,0.810,0.817,0.837,0.806,0.817,(8.7987)+(-0.0091)Asn+(-

0.0790)His+(-0.0011)Ala+(0.0214)Tyr+(-0.1016)Trp;0.801,0.826,0.767,0.758,0.751,0.821,0.785,0.779,(4.5800)+(-0.0424)Asn+(0.0060)Gly+(-0.1322)His+(-0.0041)Ala+(0.0932)Phe;0.801,0.825,0.723,0.685,0.737,0.824,0.721,0.742,(3.5965)+(0.0434)Ser+(-0.1440)His+(-0.0108)Arg+(-0.0059)Lys+(0.0231)Leu;0.801,0.832,0.799,0.800,0.799,0.859,0.751,0.802,(4.7757)+(0.0096)Gln+(-0.1289)His+(0.0232)Thr+(-0.0363)Cit+(-0.1669)Met;0.801,0.827,0.724,0.691,0.734,0.824,0.717,0.741,(3.5735)+(0.0346)Ser+(-0.1439)His+(-0.0018)Thr+(0.0024)Val+(0.0230)Orn;0.801,0.826,0.756,0.735,0.731,0.830,0.813,0.777,(5.6428)+(0.0038)Gly+(-0.1230)His+(-0.0059)Ala+(-0.0134)Tyr+(0.0626)Ile;0.801,0.830,0.832,0.849,0.825,0.826,0.811,0.828,(5.4593)+(-0.0900)Asn+(0.0063)Gln+(0.0062)Pro+(-0.0039)Val+(-0.1344)Trp;0.801,0.829,0.795,0.797,0.817,0.799,0.739,0.788,(5.8556)+(0.0254)Thr+(0.0135)Tyr+(-0.2197)Met+(0.0163)Leu+(-0.1541)Trp;0.801,0.823,0.795,0.779,0.787,0.839,0.820,0.806,(4.0688)+(-0.0591)Asn+(0.0114)Gln+(-0.1500)His+(-0.0013)Lys+(0.0138)Leu;0.801,0.834,0.744,0.736,0.714,0.840,0.757,0.762,(-0.6697)+(0.0395)Ser+(0.0005)Gln+(-0.3120)Met+(0.1704)Ile+(-0.0750)Leu;0.801,0.829,0.759,0.728,0.764,0.818,0.789,0.775,(2.0580)+(0.0086)Gln+(-0.1649)His+(-0.0620)Cit+(0.0284)Orn+(0.0673)Phe;0.801,0.819,0.739,0.735,0.651,0.850,0.855,0.773,(0.3473)+(0.0211)Ser+(-0.0114)Ala+(-0.0412)Val+(0.1947)Ile+(-0.0339)Leu;0.801,0.830,0.791,0.787,0.816,0.804,0.741,0.787,(6.5878)+(0.0150)Thr+(-0.0778)Cit+(-0.0101)Tyr+(0.0159)Leu+(-0.1694)Trp;0.801,0.829,0.773,0.740,0.757,0.839,0.845,0.795,(4.9048)+(-0.1213)His+(-0.0083)Ala+(-0.0484)Cit+(0.0510)Ile+(0.0608)Phe;0.801,0.829,0.798,0.774,0.818,0.819,0.806,0.804,(8.5079)+(-0.0839)His+(-0.0384)Cit+(0.0139)Tyr+(0.0243)Leu+(-0.1231)Trp;0.801,0.828,0.759,0.732,0.742,0.826,0.821,0.780,(6.0200)+(-0.1238)His+(-0.0058)Ala+(-0.0233)Tyr+(0.0270)Orn+(0.0549)Ile;0.801,0.827,0.818,0.822,0.834,0.822,0.768,0.812,(5.1257)+(0.0008)Gly+(0.0053)Gln+(-0.0

808)Cit+(0.0043)Val+(-0.1627)Trp;0.801,0.829,0.791,0.802,0.790,0.835,0.732,0.790,(3.9420)+(0.0317)Ser+(-0.0035)Ala+(-0.0158)Arg+(0.0036)Val+(-0.1432)Trp;0.801,0.827,0.784,0.787,0.773,0.774,0.810,0.786,(4.1157)+(-0.0018)Gly+(0.0029)Gln+(-0.0256)Tyr+(0.0517)Ile+(-0.1650)Trp;0.801,0.826,0.721,0.681,0.747,0.830,0.693,0.738,(3.6591)+(0.0347)Ser+(-0.1347)His+(-0.0626)Cit+(0.0041)Pro+(0.0395)Orn;0.801,0.831,0.724,0.700,0.720,0.771,0.763,0.739,(-4.9240)+(0.0601)Ser+(-0.0056)Gly+(-0.4381)Met+(0.0536)Ile+(0.0841)Phe;0.801,0.827,0.749,0.729,0.736,0.789,0.801,0.764,(4.8493)+(-0.1288)His+(-0.0372)Cit+(-0.0500)Tyr+(0.0414)Ile+(0.0828)Phe;0.801,0.839,0.810,0.817,0.825,0.763,0.794,0.800,(3.9536)+(-0.0168)Arg+(-0.0001)Lys+(-0.0013)Leu+(0.0804)Phe+(-0.1671)Trp;0.801,0.823,0.748,0.720,0.717,0.823,0.831,0.773,(5.8126)+(-0.0879)His+(-0.0349)Cit+(-0.0350)Val+(-0.0031)Lys+(0.1334)Ile;0.801,0.830,0.801,0.788,0.807,0.805,0.824,0.806,(5.6813)+(-0.0070)Asn+(0.0148)Tyr+(-0.1815)Met+(0.0643)Ile+(-0.1461)Trp;0.801,0.825,0.806,0.796,0.822,0.817,0.787,0.806,(8.8990)+(0.0031)Asn+(-0.0764)His+(-0.0378)Cit+(0.0093)Val+(-0.1125)Trp;0.801,0.830,0.840,0.858,0.834,0.833,0.812,0.834,(5.1032)+(-0.0620)Asn+(0.0072)Gln+(-0.1067)Met+(0.0073)Lys+(-0.1381)Trp;0.801,0.826,0.800,0.800,0.827,0.817,0.730,0.793,(6.7326)+(0.0006)Gly+(0.0134)Thr+(-0.0769)Cit+(0.0034)Val+(-0.1631)Trp;0.801,0.823,0.727,0.693,0.729,0.811,0.756,0.747,(3.6440)+(0.0453)Ser+(-0.0046)Gly+(-0.1435)His+(-0.0189)Tyr+(0.0214)Leu;0.801,0.831,0.780,0.779,0.771,0.821,0.774,0.786,(3.0091)+(0.0292)Ser+(-0.0054)Ala+(-0.0028)Tyr+(0.0173)Leu+(-0.1543)Trp;0.801,0.830,0.774,0.785,0.775,0.808,0.717,0.771,(3.3448)+(0.0255)Ser+(-0.0137)Tyr+(-0.0011)Val+(0.0151)Orn+(-0.1476)Trp;0.801,0.830,0.812,0.812,0.827,0.819,0.778,0.809,(7.5154)+(-0.0650)Cit+(0.0068)Arg+(0.0107)Pro+(-0.0926)Met+(-0.1364)Trp;0.801,0.823,0.745,0.736,0.659,0.854,0.872,0.780,(0.3197)+(0.0272)Ser+(-0.0115)Thr+(-0.0111)Ala+(-0.

0501)Val+(0.1709)Ile;0.801,0.831,0.793,0.802,0.785,0.834,0.754,0.794,(3.7630)+(0.0271)Ser+(0.0013)Thr+(-0.0038)Ala+(0.0007)Tyr+(-0.1438)Trp;0.801,0.828,0.812,0.812,0.830,0.813,0.773,0.807,(7.6104)+(-0.0631)Cit+(0.0101)Pro+(0.0025)Val+(-0.0850)Met+(-0.1397)Trp;0.801,0.827,0.813,0.813,0.829,0.810,0.781,0.808,(7.7961)+(-0.0501)Asn+(-0.0656)Cit+(0.0085)Pro+(0.0058)Lys+(-0.1456)Trp;0.801,0.830,0.753,0.737,0.730,0.833,0.788,0.772,(-0.9125)+(0.0493)Ser+(-0.0571)Asn+(-0.0070)Ala+(-0.2568)Met+(0.0759)Ile;0.801,0.825,0.741,0.719,0.748,0.833,0.715,0.754,(4.5919)+(0.0438)Ser+(-0.0654)Asn+(-0.1139)His+(-0.0313)Cit+(0.0081)Pro;0.801,0.830,0.805,0.798,0.768,0.873,0.850,0.822,(4.7988)+(-0.0090)Ala+(-0.0731)Cit+(-0.1485)Met+(0.1836)Ile+(-0.0784)Leu;0.801,0.823,0.750,0.735,0.712,0.816,0.820,0.771,(6.2246)+(-0.0863)His+(-0.0122)Arg+(-0.0176)Tyr+(-0.0364)Val+(0.1380)Ile;0.801,0.827,0.739,0.719,0.754,0.830,0.693,0.749,(4.5030)+(0.0356)Ser+(-0.1299)His+(-0.0178)Arg+(-0.0128)Tyr+(0.0332)Orn;0.801,0.824,0.763,0.738,0.745,0.822,0.824,0.782,(5.8503)+(-0.0200)Asn+(-0.1057)His+(-0.0029)Pro+(0.1150)Ile+(-0.0474)Leu;0.801,0.829,0.771,0.781,0.773

,0.805,0.714,0.768,(3.3546)+(0.0263)Ser+(-0.0004)Gln+(-0.0140)Tyr+(0.0146)Orn+(-0.1485)Trp;0.801,0.830,0.797,0.808,0.795,0.842,0.739,0.796,(4.1052)+(0.0312)Ser+(-0.0032)Ala+(-0.0161)Arg+(0.0072)Tyr+(-0.1408)Trp;0.801,0.822,0.738,0.715,0.735,0.838,0.735,0.756,(3.9187)+(0.0365)Ser+(-0.1400)His+(0.0031)Thr+(-0.0035)Ala+(0.0072)Val;0.801,0.823,0.793,0.788,0.782,0.841,0.794,0.801,(4.7048)+(-0.0776)Asn+(0.0102)Gln+(-0.1429)His+(0.0132)Thr+(0.0007)Val;0.801,0.836,0.741,0.732,0.713,0.840,0.752,0.759,(-0.5676)+(0.0403)Ser+(0.0015)Pro+(-0.3133)Met+(0.1681)Ile+(-0.0746)Leu;0.801,0.825,0.752,0.715,0.755,0.826,0.794,0.772,(3.0368)+(0.0083)Gln+(-0.1540)His+(-0.0610)Cit+(0.0252)Orn+(0.0405)Ile;0.801,0.825,0.742,0.722,0.747,0.833,0.718,0.755,(4.5757)+(0.0398)Ser+(-

0.0655)Asn+(-0.1277)His+(0.0074)Thr+(0.0036)Val;0.801,0.829,0.745,0.710,0.735,0.819,0.806,0.768,(5.1849)+(-0.1176)His+(0.0226)Orn+(-0.0028)Lys+(0.1026)Ile+(-0.0444)Leu;0.801,0.832,0.805,0.808,0.811,0.844,0.759,0.805,(8.5667)+(0.0039)Gly+(-0.0695)His+(-0.0404)Cit+(0.0058)Arg+(-0.1000)Trp;0.801,0.829,0.811,0.810,0.818,0.822,0.789,0.810,(8.8402)+(-0.0218)Asn+(-0.0729)His+(-0.0295)Cit+(0.0121)Lys+(-0.1068)Trp;0.801,0.826,0.803,0.802,0.785,0.854,0.803,0.811,(5.0033)+(-0.0753)Asn+(0.0101)Gln+(-0.1368)His+(0.0143)Thr+(-0.0024)Ala;0.801,0.823,0.745,0.719,0.727,0.820,0.794,0.765,(5.0194)+(0.0031)Gly+(-0.1169)His+(-0.0033)Pro+(0.1129)Ile+(-0.0443)Leu;0.801,0.831,0.736,0.726,0.727,0.786,0.749,0.747,(4.0414)+(0.0032)Gly+(-0.1420)His+(-0.0441)Tyr+(0.0264)Orn+(0.0933)Phe;0.801,0.829,0.745,0.714,0.736,0.808,0.799,0.764,(4.3325)+(-0.1391)His+(-0.0233)Val+(0.0291)Orn+(0.0319)Leu+(0.0677)Phe;0.801,0.821,0.740,0.719,0.710,0.816,0.806,0.763,(5.5607)+(0.0027)Gly+(-0.0936)His+(-0.0150)Arg+(-0.0365)Val+(0.1349)Ile;0.801,0.835,0.742,0.733,0.714,0.840,0.754,0.760,(-0.5524)+(0.0398)Ser+(0.0010)Thr+(-0.3130)Met+(0.1701)Ile+(-0.0747)Leu;0.801,0.831,0.798,0.800,0.794,0.813,0.789,0.799,(3.6865)+(0.0394)Ser+(-0.0086)Gly+(0.0012)Gln+(-0.0060)Lys+(-0.1463)Trp;0.801,0.830,0.821,0.841,0.817,0.824,0.775,0.814,(5.7234)+(-0.1060)Asn+(0.0057)Gln+(0.0164)Thr+(-0.0110)Tyr+(-0.1425)Trp;0.801,0.827,0.805,0.815,0.798,0.820,0.782,0.804,(6.3997)+(-0.0050)Ala+(0.0114)Pro+(-0.1191)Met+(0.0236)Orn+(-0.1259)Trp;0.801,0.829,0.789,0.780,0.791,0.792,0.809,0.793,(5.4514)+(-0.0619)Asn+(0.0012)Gly+(0.0079)Orn+(0.0478)Ile+(-0.1549)Trp;0.801,0.828,0.809,0.808,0.815,0.828,0.786,0.810,(8.5945)+(-0.0760)His+(-0.0009)Ala+(-0.0299)Cit+(0.0111)Lys+(-0.1061)Trp;0.801,0.835,0.801,0.817,0.805,0.760,0.780,0.790,(4.0295)+(-0.0135)Arg+(-0.0287)Tyr+(-0.0006)Leu+(0.0944)Phe+(-0.1575)Trp;0.801,0.829,0.793,0.788,0.820,0.802,0.740,0.788,(6.6190)+(0.0154)Thr+(-0.0754)Cit+(-

0.0062)Arg+(0.0150)Leu+(-0.1718)Trp;0.801,0.822,0.729,0.702,0.736,0.828,0.712,0.744,(3.9457)+(0.0372)Ser+(-0.1415)His+(0.0034)Thr+(0.0061)Val+(-0.0051)Lys;0.801,0.830,0.794,0.782,0.787,0.842,0.804,0.804,(3.5518)+(0.0014)Gly+(0.0111)Gln+(-0.1484)His+(-0.1422)Met+(0.0218)Leu;0.801,0.829,0.778,0.754,0.788,0.807,0.801,0.787,(4.3776)+(-0.1257)His+(-0.1802)Met+(0.0245)Orn+(0.0008)Leu+(0.1043)Phe;0.801,0.828,0.725,0.696,0.744,0.826,0.691,0.739,(3.8547)+(0.0378)Ser+(-0.1370)His+(-0.0196)Arg+(0.0057)Pro+(0.0250)Orn;0.801,0.827,0.727,0.701,0.733,0.780,0.747,0.740,(4.0546)+(0.0035)Gly+(-0.1560)His+(0.0155)Thr+(-0.0083)Lys+(0.0832)Phe;0.801,0.836,0.755,0.750,0.767,0.852,0.673,0.760,(5.2069)+(0.0358)Ser+(-0.1165)His+(0.0213)Thr+(-0.0142)Arg+(-0.1446)Met;0.801,0.832,0.813,0.820,0.822,0.818,0.772,0.808,(5.3882)+(0.0053)Gln+(-0.0798)Cit+(0.0082)Pro+(-0.0096)Tyr+(-0.1573)Trp;0.801,0.830,0.815,0.822,0.831,0.842,0.743,0.809,(7.4823)+(0.0186)Thr+(-0.0035)Ala+(-0.0669)Cit+(-0.0050)Arg+(-0.1491)Trp;0.801,0.828,0.713,0.678,0.721,0.812,0.715,0.732,(3.3902)+(0.0360)Ser+(-0.1488)His+(-0.0219)Tyr+(0.0216)Orn+(0.0189)Leu;0.801,0.831,0.792,0.791,0.791,0.804,0.788,0.793,(3.4849)+(0.0377)Ser+(-0.0083)Gly+(0.0005)Gln+(0.0000)Val+(-0.1533)Trp;0.801,0.831,0.761,0.749,0.746,0.803,0.795,0.773,(4.7353)+(-0.1328)His+(-0.0033)Ala+(-0.0405)Tyr+(0.0299)Orn+(0.0921)Phe;0.801,0.827,0.746,0.729,0.730,0.783,0.800,0.760,(4.8785)+(-0.1348)His+(-0.0064)Arg+(-0.0484)Tyr+(0.0391)Ile+(0.0805)Phe;0.801,0.828,0.796,0.790,0.786,0.850,0.795,0.805,(4.2960)+(0.0095)Gln+(-0.1360)His+(-0.0014)Ala+(-0.1002)Met+(0.0269)Orn;0.801,0.827,0.769,0.768,0.762,0.765,0.789,0.771,(4.9845)+(-0.0022)Gly+(0.0097)Thr+(-0.0298)Tyr+(0.0519)Ile+(-0.1651)Trp;0.801,0.822,0.724,0.683,0.740,0.827,0.724,0.744,(3.6706)+(0.0432)Ser+(-0.1388)His+(-0.0327)Cit+(-0.0093)Lys+(0.0254)Leu;0.801,0.831,0.818,0.822,0.833,0.845,0.754,0.814,(7.2997)+(0.0168)Thr+(-0.0038)Ala+(-0.0707)Cit+(0.0040

)Tyr+(-0.1507)Trp;0.801,0.830,0.846,0.864,0.837,0.844,0.816,0.840,(5.3526)+(-0.0558)Asn+(0.0076)Gln+(-0.0011)Ala+(-0.0829)Met+(-0.1305)Trp;0.801,0.829,0.794,0.774,0.803,0.818,0.810,0.801,(8.6580)+(-0.0793)His+(-0.0320)Cit+(-0.0143)Val+(0.0482)Leu+(-0.1143)Trp;0.801,0.830,0.735,0.724,0.697,0.814,0.789,0.756,(-1.3492)+(0.0437)Ser+(-0.1884)Asn+(0.1440)Ile+(-0.0907)Leu+(0.0761)Phe;0.801,0.829,0.753,0.734,0.758,0.842,0.725,0.765,(4.0064)+(0.0433)Ser+(-0.1257)His+(-0.0014)Ala+(0.0097)Val+(-0.1167)Met;0.801,0.824,0.790,0.779,0.783,0.840,0.794,0.799,(4.3497)+(-0.0636)Asn+(0.0007)Gly+(0.0100)Gln+(-0.1412)His+(0.0227)Orn;0.801,0.821,0.784,0.767,0.763,0.844,0.832,0.801,(4.0636)+(0.0088)Gln+(-0.1487)His+(-0.0036)Ala+(-0.0142)Val+(0.0382)Leu;0.801,0.827,0.739,0.716,0.743,0.828,0.724,0.753,(4.3160)+(0.0426)Ser+(-0.0677)Asn+(-0.1218)His+(0.0077)Pro+(0.0010)Lys;0.801,0.826,0.827,0.836,0.838,0.831,0.775,0.820,(5.4010)+(0.0005)Gly+(0.0056)Gln+(-0.0748)Cit+(-0.0010)Lys+(-0.1532)Trp;0.801,0.823,0.759,0.732,0.742,0.843,0.802,0.780,(5.4875)+(0.0061)Gly+(-0.1122)His+(-0.0078)Ala+(-0.0560)Cit+(0.0691)Ile;0.801,0.826,0.765,0.724,0.762,0.845,0.819,0.788,(6.0114)+(-0.1118)His+(-0.0087)Ala+(-0.0757)Cit+(0.0446)Orn+(0.0547)Ile;0.801,0.831,0.800,0.791,0.779,0.821,0.852,0.811,(5.4410)+(-0.0077)Ala+(-0.0025)Tyr+(-0.0049)Lys+(0.0705)Ile+(-0.1504)Trp;0.801,0.829,0.816,0.815,0.831,0.817,0.786,0.812,(5.0512)+(0.0055)Gln+(-0.0790)Cit+(-0.0042)Arg+(0.0145)Leu+(-0.1685)Trp;0.801,0.823,0.724,0.691,0.726,0.825,0.732,0.743,(3.6625)+(0.0410)Ser+(-0.1389)His+(-0.0129)Arg+(-0.0170)Val+(0.0449)Leu;0.801,0.823,0.793,0.790,0.782,0.842,0.793,0.802,(4.7672)+(-0.0782)Asn+(0.0102)Gln+(-0.1415)His+(0.0134)Thr+(-0.0001)Lys;0.801,0.831,0.795,0.800,0.788,0.807,0.787,0.795,(3.7307)+(0.0377)Ser+(-0.0086)Gly+(0.0010)Gln+(-0.0131)Tyr+(-0.1471)Trp;0.800,0.831,0.787,0.765,0.784,0.812,0.831,0.798,(4.7862)+(-0.1105)His+(-0.0250)Val+(-0.2011)Met+(0.0438)Leu+(0.11

56)Phe;0.800,0.831,0.804,0.792,0.814,0.819,0.801,0.807,(8.4268)+(-0.0903)His+(-0.0000)Arg+(0.0126)Tyr+(0.0071)Val+(-0.1097)Trp;0.800,0.825,0.737,0.709,0.743,0.780,0.770,0.751,(4.6303)+(-0.1533)His+(0.0180)Thr+(-0.0003)Pro+(-0.0086)Lys+(0.0793)Phe;0.800,0.827,0.766,0.788,0.688,0.813,0.837,0.781,(0.9915)+(-0.0100)Ala+(-0.0633)Tyr+(0.1766)Ile+(-0.0986)Leu+(0.0854)Phe;0.800,0.827,0.794,0.799,0.812,0.796,0.743,0.788,(6.2724)+(-0.0019)Gly+(0.0273)Thr+(-0.2011)Met+(0.0166)Leu+(-0.1519)Trp;0.800,0.821,0.717,0.685,0.715,0.812,0.740,0.738,(3.4976)+(0.0383)Ser+(-0.1417)His+(-0.0101)Tyr+(-0.0164)Val+(0.0453)Leu;0.800,0.833,0.777,0.767,0.781,0.788,0.789,0.781,(3.0673)+(0.0389)Ser+(-0.0081)Gly+(-0.0001)Gln+(0.0094)Leu+(-0.1622)Trp;0.800,0.833,0.777,0.788,0.788,0.817,0.697,0.773,(3.7509)+(0.0297)Ser+(-0.0216)Arg+(-0.0078)Tyr+(0.0208)Orn+(-0.1453)Trp;0.800,0.830,0.794,0.798,0.789,0.812,0.779,0.794,(4.1499)+(0.0405)Ser+(-0.0085)Gly+(-0.0077)Tyr+(-0.0042)Lys+(-0.1421)Trp;0.800,0.826,0.811,0.814,0.811,0.828,0.793,0.811,(8.9125)+(-0.0073)Asn+(-0.0750)His+(-0.0000)Ala+(0.0019)Arg+(-0.0947)Trp;0.800,0.835,0.743,0.734,0.714,0.840,0.755,0.761,(-0.5465)+(0.0403)Ser+(-0.3091)Met+(-0.0009)Orn+(0.1707)Ile+(-0.0749)Leu;0.800,0.831,0.736,0.718,0.705,0.826,0.786,0.759,(-1.6095)+(0.0456)Ser+(-0.0098)Ala+(0.0103)Pro+(-0.3234)Met+(0.0722)Ile;0.800,0.829,0.750,0.728,0.722,0.828,0.808,0.772,(-1.5412)+(0.0527)Ser+(-0.0052)Gly+(-0.0072)Ala+(-0.3066)Met+(0.0779)Ile;0.800,0.828,0.790,0.776,0.784,0.834,0.807,0.800,(3.5239)+(0.0114)Gln+(-0.1455)His+(0.0059)Pro+(-0.1605)Met+(0.0184)Leu;0.800,0.832,0.803,0.798,0.802,0.804,0.815,0.805,(6.6691)+(0.0097)Pro+(-0.0276)Val+(-0.1563)Met+(0.0569)Leu+(-0.1284)Trp;0.800,0.831,0.794,0.796,0.801,0.815,0.756,0.792,(4.4681)+(0.0392)Ser+(-0.0083)Gly+(0.0067)Thr+(-0.0203)Arg+(-0.1510)Trp;0.800,0.831,0.795,0.803,0.788,0.839,0.757,0.797,(3.8357)+(0.0289)Ser+(-0.0036)Ala+(0.0035)Tyr+(-0.0029)Lys+(-0.1407)Trp;0.

800,0.833,0.778,0.773,0.778,0.785,0.785,0.780,(3.4107)+(0.0398)Ser+(-0.0084)Gly+(-0.0178)Tyr+(0.0119)Leu+(-0.1552)Trp;0.800,0.826,0.803,0.803,0.805,0.815,0.788,0.803,(8.4506)+(-0.0857)His+(-0.0007)Ala+(-0.0067)Arg+(0.0129)Lys+(-0.1036)Trp;0.800,0.828,0.800,0.794,0.793,0.850,0.797,0.808,(4.3745)+(-0.0353)Asn+(0.0104)Gln+(-0.1341)His+(-0.0849)Met+(0.0254)Orn;0.800,0.827,0.757,0.737,0.745,0.814,0.793,0.772,(4.8010)+(-0.1452)His+(0.0190)Thr+(-0.0048)Ala+(-0.0072)Lys+(0.0853)Phe;0.800,0.827,0.793,0.783,0.798,0.799,0.806,0.797,(5.6474)+(-0.0048)Arg+(-0.1632)Met+(0.0118)Orn+(0.0617)Ile+(-0.1429)Trp;0.800,0.829,0.801,0.796,0.808,0.836,0.777,0.804,(8.2162)+(0.0034)Gly+(-0.0869)His+(-0.0027)Arg+(0.0214)Tyr+(-0.1018)Trp;0.800,0.829,0.795,0.801,0.785,0.792,0.804,0.795,(4.6437)+(0.0022)Gln+(0.0045)Pro+(-0.0239)Val+(0.0437)Leu+(-0.1571)Trp;0.800,0.829,0.803,0.810,0.804,0.817,0.774,0.801,(3.7816)+(0.0395)Ser+(-0.0084)Gly+(0.0022)Gln+(-0.0197)Arg+(-0.1489)Trp;0.800,0.829,0.778,0.755,0.788,0.807,0.799,0.787,(4.4021)+(-0.1251)His+(-0.0008)Arg+(-0.1782)Met+(0.0249)Orn+(0.1048)Phe;0.800,0.821,0.732,0.723,0.642,0.845,0.860,0.768,(0.2879)+(0.0207)Ser+(-0.0126)Ala+(0.0046)Pro+(-0.0522)Val+(0.1673)Ile;0.800,0.830,0.772,0.778,0.780,0.801,0.721,0.770,(3.2369)+(0.0264)Ser+(-0.0007)Gln+(-0.0018)Val+(0.0134)Orn+(-0.1514)Trp;0.800,0.828,0.809,0.809,0.814,0.819,0.791,0.808,(8.5177)+(-0.0818)His+(-0.0048)Arg+(-0.0556)Met+(0.0155)Lys+(-0.1022)Trp;0.800,0.828,0.781,0.790,0.783,0.814,0.729,0.779,(3.3736)+(0.0284)Ser+(0.0005)Gln+(0.0001)Thr+(-0.0051)Lys+(-0.1465)Trp;0.800,0.826,0.803,0.804,0.822,0.814,0.754,0.798,(7.3522)+(-0.0440)Asn+(0.0042)Gly+(-0.0734)Cit+(0.0178)Leu+(-0.1503)Trp;0.800,0.820,0.718,0.688,0.725,0.816,0.715,0.736,(3.4646)+(0.0376)Ser+(-0.1424
)His+(-0.0010)Thr+(0.0056)Pro+(0.0030)Val;0.800,0.819,0.722,0.681,0.736,0.815,0.739,0.742,(3.4169)+(0.0440)Ser+(-0.0029)Gly+(-0.1445)His+(

-0.0282)Cit+(0.0195)Leu;0.800,0.829,0.789,0.795,0.782,0.830,0.756,0.791,(3.5180)+(0.0279)Ser+(0.0005)Thr+(-0.0043)Ala+(0.0030)Val+(-0.1472)Trp;0.800,0.827,0.814,0.825,0.813,0.831,0.772,0.811,(7.0184)+(-0.0781)Asn+(0.0164)Thr+(-0.0041)Ala+(0.0203)Orn+(-0.1372)Trp;0.800,0.825,0.735,0.704,0.742,0.780,0.770,0.749,(4.6314)+(-0.1544)His+(0.0182)Thr+(-0.0093)Lys+(0.0028)Leu+(0.0763)Phe;0.800,0.824,0.749,0.735,0.758,0.843,0.703,0.760,(5.2096)+(0.0392)Ser+(-0.0701)Asn+(-0.1148)His+(0.0116)Thr+(-0.0341)Cit;0.800,0.821,0.758,0.740,0.748,0.842,0.765,0.774,(4.5665)+(0.0424)Ser+(-0.0048)Gly+(-0.1248)His+(-0.0018)Ala+(-0.0008)Lys;0.800,0.834,0.737,0.740,0.714,0.793,0.736,0.746,(-3.6424)+(0.0469)Ser+(-0.0078)Ala+(0.0152)Pro+(-0.3835)Met+(0.1090)Phe;0.800,0.828,0.760,0.776,0.757,0.786,0.709,0.757,(-2.4577)+(0.0533)Ser+(-0.0976)Asn+(-0.2929)Met+(-0.0066)Leu+(0.1149)Phe;0.800,0.833,0.794,0.810,0.800,0.758,0.764,0.783,(3.9845)+(-0.0170)Arg+(-0.0312)Tyr+(0.0157)Orn+(0.0861)Phe+(-0.1562)Trp;0.800,0.828,0.775,0.767,0.775,0.767,0.805,0.778,(3.5301)+(0.0018)Gln+(0.0020)Thr+(-0.0030)Orn+(0.0488)Ile+(-0.1774)Trp;0.800,0.820,0.775,0.757,0.760,0.835,0.810,0.790,(3.9170)+(0.0082)Gln+(-0.1596)His+(0.0089)Thr+(-0.0046)Ala+(0.0173)Leu;0.800,0.832,0.770,0.774,0.784,0.805,0.708,0.768,(3.1730)+(0.0309)Ser+(-0.0227)Arg+(0.0154)Orn+(0.0088)Leu+(-0.1569)Trp;0.800,0.830,0.789,0.791,0.786,0.801,0.780,0.790,(3.8664)+(0.0391)Ser+(-0.0084)Gly+(-0.0129)Tyr+(0.0013)Val+(-0.1479)Trp;0.800,0.829,0.748,0.736,0.738,0.785,0.772,0.758,(4.5679)+(-0.1363)His+(-0.0468)Tyr+(0.0296)Orn+(-0.0024)Leu+(0.0929)Phe;0.800,0.824,0.746,0.719,0.754,0.778,0.780,0.758,(4.9701)+(-0.0618)Asn+(-0.1444)His+(0.0202)Thr+(-0.0022)Leu+(0.0796)Phe;0.800,0.828,0.797,0.788,0.799,0.800,0.815,0.800,(5.8960)+(-0.0076)Asn+(-0.0013)Arg+(-0.1545)Met+(0.0650)Ile+(-0.1426)Trp;0.800,0.826,0.747,0.736,0.748,0.837,0.711,0.758,(5.0700)+(0.0379)Ser+(-0.0681)Asn+(-0.1190)His+(0.0102)Thr+(-0

.0064)Tyr;0.800,0.831,0.820,0.833,0.821,0.813,0.788,0.814,(5.2861)+(-0.1101)Asn+(0.0054)Gln+(0.0148)Thr+(0.0066)Leu+(-0.1515)Trp;0.800,0.827,0.804,0.798,0.812,0.819,0.795,0.806,(8.6039)+(0.0078)Asn+(-0.0860)His+(0.0086)Val+(-0.0282)Met+(-0.1040)Trp;0.800,0.826,0.803,0.808,0.824,0.823,0.729,0.796,(7.0408)+(0.0001)Gly+(0.0151)Thr+(-0.0714)Cit+(-0.0042)Tyr+(-0.1554)Trp;0.800,0.829,0.790,0.790,0.789,0.808,0.780,0.792,(3.8129)+(0.0413)Ser+(-0.0084)Gly+(0.0022)Val+(-0.0064)Lys+(-0.1479)Trp;0.800,0.828,0.839,0.848,0.842,0.852,0.801,0.836,(5.5372)+(0.0058)Gln+(-0.0034)Ala+(-0.0726)Cit+(0.0082)Tyr+(-0.1495)Trp;0.800,0.830,0.756,0.746,0.748,0.786,0.780,0.765,(5.0126)+(-0.0286)Asn+(-0.1297)His+(-0.0458)Tyr+(0.0301)Orn+(0.0917)Phe;0.800,0.825,0.720,0.684,0.729,0.819,0.727,0.740,(3.5452)+(0.0417)Ser+(-0.1442)His+(-0.0102)Tyr+(-0.0077)Lys+(0.0255)Leu;0.800,0.826,0.799,0.802,0.824,0.813,0.728,0.792,(6.9045)+(0.0147)Thr+(-0.0750)Cit+(-0.0064)Tyr+(0.0036)Val+(-0.1609)Trp;0.800,0.832,0.764,0.762,0.769,0.798,0.734,0.766,(2.8162)+(0.0321)Ser+(0.0001)Gln+(-0.0098)Lys+(0.0160)Leu+(-0.1558)Trp;0.800,0.822,0.791,0.775,0.784,0.834,0.817,0.802,(3.9957)+(-0.0624)Asn+(0.0113)Gln+(-0.1498)His+(0.0023)Pro+(0.0117)Leu;0.800,0.823,0.779,0.758,0.767,0.841,0.816,0.796,(3.8533)+(0.0083)Gln+(-0.1554)His+(-0.0046)Ala+(0.0192)Orn+(0.0142)Leu;0.800,0.830,0.778,0.753,0.788,0.804,0.801,0.787,(4.2159)+(-0.1288)His+(-0.1907)Met+(0.0225)Orn+(0.0043)Lys+(0.1052)Phe;0.800,0.829,0.750,0.716,0.758,0.823,0.772,0.767,(5.3409)+(0.0051)Gly+(-0.1222)His+(-0.1618)Met+(0.0204)Orn+(0.0615)Ile;0.800,0.832,0.826,0.845,0.831,0.831,0.763,0.818,(5.7424)+(-0.0980)Asn+(0.0063)Gln+(0.0189)Thr+(-0.0169)Arg+(-0.1455)Trp;0.800,0.830,0.825,0.838,0.824,0.817,0.801,0.820,(5.0915)+(-0.0925)Asn+(0.0056)Gln+(0.0037)Pro+(0.0152)Orn+(-0.1419)Trp;0.800,0.822,0.789,0.774,0.774,0.843,0.825,0.804,(3.9722)+(0.0097)Gln+(-0.1534)His+(-0.0039)Ala+(-0.0039)Lys+(0.0187)Leu;0.800,0.8

26,0.743,0.725,0.729,0.811,0.775,0.760,(3.9203)+(0.0035)Gly+(-0.1504)His+(0.0135)Thr+(-0.0050)Ala+(0.0841)Phe;0.800,0.827,0.816,0.815,0.831,0.820,0.784,0.812,(8.0541)+(-0.0409)Asn+(-0.0659)Cit+(0.0088)Pro+(0.0027)Tyr+(-0.1412)Trp;0.800,0.830,0.796,0.806,0.786,0.836,0.760,0.797,(3.5249)+(0.0265)Ser+(0.0009)Gln+(-0.0039)Ala+(0.0006)Tyr+(-0.1442)Trp;0.800,0.828,0.753,0.735,0.761,0.837,0.724,0.764,(4.2028)+(0.0447)Ser+(-0.0237)Asn+(-0.1216)His+(0.0080)Val+(-0.1056)Met;0.800,0.823,0.824,0.835,0.834,0.845,0.760,0.819,(8.1878)+(-0.0376)Asn+(0.0034)Gly+(-0.0014)Ala+(-0.0618)Cit+(-0.1282)Trp;0.800,0.822,0.809,0.806,0.791,0.853,0.824,0.818,(4.5268)+(-0.0524)Asn+(0.0113)Gln+(-0.1398)His+(-0.0025)Ala+(0.0034)Val;0.800,0.829,0.786,0.768,0.782,0.812,0.824,0.797,(4.6730)+(-0.1143)His+(-0.0044)Ala+(0.0095)Pro+(-0.1820)Met+(0.1128)Phe;0.800,0.830,0.800,0.786,0.805,0.802,0.821,0.804,(5.4682)+(0.0150)Tyr+(-0.1927)Met+(0.0015)Lys+(0.0641)Ile+(-0.1480)Trp;0.800,0.830,0.845,0.863,0.838,0.842,0.816,0.840,(5.3415)+(-0.0556)Asn+(-0.0007)Gly+(0.0077)Gln+(-0.0912)Met+(-0.1318)Trp;0.800,0.827,0.779,0.789,0.781,0.816,0.720,0.776,(3.6623)+(0.0284)Ser+(0.0013)Thr+(-0.0057)Tyr+(-0.0045)Lys+(-0.1444)Trp;0.800,0.826,0.725,0.687,0.752,0.832,0.691,0.741,(3.8123)+(0.0344)Ser+(-0.1345)His+(-0.0638)Cit+(0.0017)Val+(0.0413)Orn;0.800,0.825,0.793,0.795,0.779,0.840,0.784,0.799,(5.0179)+(-0.0767)Asn+(0.0100)Gln+(-0.1361)His+(0.0153)Thr+(-0.0137)Tyr;0.800,0.829,0.762,0.767,0.766,0.788,0.720,0.760,(2.8473)+(0.0269)Ser+(-0.0177)Tyr+(0.0103)Orn+(0.0100)Leu+(-0.1568)Trp;0.799,0.828,0.790,0.783,0.792,0.800,0.801,0.794,(5.4647)+(0.0019)Gly+(-0.0027)Arg+(-0.1665)Met+(0.0667)Ile+(-0.1424)Trp;0.799,0.826,0.713,0.665,0.741,0.825,0.702,0.733,(3.2589)+(0.0366)Ser+(-0.1438)His+(-0.0593)Cit+(0.0350)Orn+(0.0139)Leu;0.799,0.825,0.821,0.818,0.831,0.822,0.806,0.819,(7.8646)+(-0.0275)Asn+(-0.0035)Ala+(-0.0656)Cit+(0.0206)Leu+(-0.1462)Trp;0.799,0.824,0.793,0.783,

0.786,0.842,0.799,0.803,(4.4722)+(-0.0636)Asn+(0.0101)Gln+(-0.1391)His+(-0.0012)Val+(0.0239)Orn;0.799,0.823,0.784,0.773,0.771,0.841,0.797,0.796,(4.3260)+(0.0082)Gln+(-0.1446)His+(-0.0032)Ala+(0.0256)Orn+(-0.0021)Lys;0.799,0.831,0.763,0.763,0.767,0.798,0.730,0.765,(3.0081)+(0.0320)Ser+(-0.0092)Tyr+(-0.0088)Lys+(0.0167)Leu+(-0.1528)Trp;0.799,0.821,0.812,0.816,0.828,0.829,0.757,0.808,(7.1601)+(0.0029)Gly+(-0.0035)Ala+(-0.0734)Cit+(0.0074)Val+(-0.1468)Trp;0.799,0.833,0.758,0.757,0.767,0.784,0.726,0.758,(2.4354)+(0.0268)Ser+(0.0029)Pro+(0.0053)Orn+(0.0068)Leu+(-0.1643)Trp;0.799,0.823,0.757,0.731,0.738,0.835,0.811,0.779,(5.5631)+(0.0045)Gly+(-0.1243)His+(-0.0064)Ala+(-0.0065)Arg+(0.0613)Ile;0.799,0.821,0.759,0.735,0.749,0.824,0.797,0.777,(3.8676)+(0.0073)Gln+(-0.1529)His+(-0.0189)Val+(0.0226)Orn+(0.0381)Leu;0.799,0.825,0.799,0.794,0.792,0.849,0.788,0.806,(4.9729)+(-0.0814)Asn+(0.0109)Gln+(-0.1334)His+(0.0149)Thr+(-0.0398)Cit;0.799,0.821,0.745,0.724,0.750,0.832,0.727,0.758,(4.4168)+(0.0421)Ser+(-0.0569)Asn+(-0.1260)His+(0.0044)Val+(0.0004)Lys;0.799,0.825,0.811,0.814,0.811,0.827,0.789,0.810,(8.9694)+(-0.0046)Asn+(-0.0742)His+(0.0001)Ala+(-0.0058)Met+(-0.0941)Trp;0.799,0.829,0.812,0.812,0.820,0.824,0.788,0.811,(8.6419)+(-0.0739)His+(-0.0267)Cit+(-0.0505)Met+(0.0138)Lys+(-0.1044)Trp;0.799,0.824,0.787,0.769,0.783,0.836,0.810,0.799,(4.0122)+(-0.0633)Asn+(0.0105)Gln+(-0.1502)His+(0.0178)Orn+(0.0102)Leu;0.799,0.826,0.726,0.688,0.723,0.798,0.782,0.748,(3.6955)+(0.0052)Gly+(-0.1471)His+(-0.0077)Lys+(0.0383)Ile+(0.0614)Phe;0.799,0.830,0.818,0.815,0.838,0.821,0.785,0.815,(7.5730)+(-0.0618)Cit+(0.0099)Pro+(0.0168)Tyr+(-0.1065)Met+(-0.1396)Trp;0.799,0.824,0.792,0.781,0.784,0.841,0.800,0.802,(4.3825)+(-0.0626)Asn+(0.0102)Gln+(-0.1414)His+(0.0227)Orn+(0.0000)Lys;0.799,0.823,0.740,0.740,0.650,0.847,0.850,0.771,(1.0470)+(0.0203)Ser+(-0.0102)Ala+(-0.0254)Tyr+(-0.0493)Val+(0.1689)Ile;0.799,0.827,0.791,0.792,0.787,0.792,0.800

,0.792,(5.3606)+(-0.0012)Gly+(-0.0269)Val+(0.0226)Orn+(0.0474)Leu+(-0.1510)Trp;0.799,0.823,0.746,0.725,0.748,0.840,0.727,0.760,(4.2573)+(0.0405)Ser+(-0.1339)His+(-0.0029)Ala+(-0.0131)Arg+(0.0076)Val;0.799,0.824,0.739,0.702,0.739,0.805,0.790,0.759,(5.9935)+(-0.0343)Asn+(-0.1346)His+(0.0177)Thr+(-0.0057)Lys+(0.0466)Ile;0.799,0.823,0.759,0.741,0.757,0.836,0.758,0.773,(4.8430)+(0.0464)Ser+(-0.0591)Asn+(-0.0041)Gly+(-0.1169)His+(0.0019)Lys;0.799,0.833,0.734,0.748,0.724,0.776,0.689,0.734,(-3.2807)+(0.0464)Ser+(0.0139)Pro+(-0.0169)Val+(-0.4066)Met+(0.1328)Phe;0.799,0.821,0.782,0.767,0.761,0.842,0.825,0.799,(3.8347)+(0.0090)Gln+(-0.1524)His+(-0.0056)Ala+(0.0058)Pro+(0.0145)Leu;0.799,0.831,0.806,0.811,0.814,0.841,0.754,0.805,(8.8068)+(0.0040)Gly+(-0.0680)His+(-0.0361)Cit+(-0.0055)Met+(-0.0975)Trp;0.799,0.825,0.812,0.825,0.819,0.815,0.760,0.805,(7.5024)+(-0.0813)Asn+(-0.0012)Gly+(0.0196)Thr+(-0.0028)Val+(-0.1386)Trp;0.799,0.831,0.806,0.811,0.806,0.834,0.771,0.806,(8.5529)+(0.0028)Gly+(-0.0777)His+(0.0012)Arg+(-0.0162)Met+(-0.0929)Trp;0.799,0.823,0.804,0.801,0.783,0.851,0.823,0.815,(4.6719)+(-0.0570)Asn+(0.0108)Gln+(-0.1327)His+(-0.0042)Ala+(0.0081)Pro;0.799,0.828,0.730,0.708,0.737,0.825,0.705,0.744,(4.1088)+(0.0319)Ser+(-0.1357)His+(0.0011)Thr+(-0.0154)Tyr+(0.0281)Orn;0.799,0.820,0.763,0.755,0.716,0.845,0.824,0.785,(5.2796)+(-0.1247)Asn+(0.0052)Gly+(-0.0560)Cit+(-0.0530)Val+(0.1668)Ile;0.799,0.821,0.749,0.728,0.715,0.817,0.824,0.771,(5.8997)+(-0.0878)His+(-0.0144)Arg+(-0.0342)Val+(0.1447)Ile+(-0.0118)Leu;0.799,0.821,0.770,0.757,0.769,0.827,0.767,0.780,(3.8662)+(0.0102)Gln+(-0.1650)His+(0.0129)Thr+(-0.0235)Arg+(0.0125)Leu;0.799,0.819,0.718,0.681,0.723,0.817,0.733,0.738,(3.4746)+(0.0393)Ser+(-0.1392)His+(-0.0267)Cit+(-0.0157)Val+(0.0433)Leu;0.799,0.828,0.786,0.777,0.781,0.838,0.787,0.796,(3.9627)+(0.0098)Gln+(-0.1371)His+(0.0070)Pro+(-0.1379)Met+(0.0218)Orn;0.799,0.826,0.764,0.756,0.763,0.852,0.722,0.773,(4.935

5)+(0.0419)Ser+(-0.0371)Asn+(-0.1085)His+(-0.0000)Ala+(-0.0702)Met;0.799,0.822,0.725,0.699,0.731,0.822,0.713,0.741,(3.8725)+(0.0370)Ser+(-0.1349)His+(0.0009)Thr+(0.0067)Pro+(-0.0035)Lys;0.799,0.826,0.728,0.693,0.754,0.834,0.694,0.744,(3.9409)+(0.0341)Ser+(-0.1311)His+(-0.0009)Thr+(-0.0642)Cit+(0.0434)Orn;0.799,0.830,0.779,0.777,0.758,0.804,0.812,0.788,(0.9531)+(-0.0159)Arg+(-0.2982)Met+(0.1781)Ile+(-0.0986)Leu+(0.1071)Phe;0.799,0.828,0.764

,0.745,0.752,0.815,0.807,0.780,(4.5033)+(-0.1332)His+(-0.0041)Ala+(-0.0064)Val+(0.0287)Orn+(0.0819)Phe;0.799,0.827,0.805,0.810,0.827,0.828,0.730,0.799,(7.1973)+(0.0161)Thr+(-0.0713)Cit+(-0.0033)Tyr+(-0.0021)Lys+(-0.1540)Trp;0.799,0.826,0.798,0.789,0.819,0.798,0.778,0.796,(6.7183)+(-0.0769)Cit+(0.0009)Arg+(0.0066)Pro+(0.0126)Leu+(-0.1626)Trp;0.799,0.835,0.721,0.707,0.729,0.781,0.700,0.729,(-4.7945)+(0.0550)Ser+(-0.0192)Arg+(-0.4236)Met+(0.0555)Ile+(0.0927)Phe;0.799,0.831,0.804,0.800,0.803,0.824,0.802,0.807,(6.2093)+(-0.0310)Val+(-0.1489)Met+(0.0314)Orn+(0.0612)Leu+(-0.1278)Trp;0.799,0.828,0.797,0.791,0.809,0.811,0.777,0.797,(6.5388)+(0.0028)Gly+(-0.0699)Cit+(-0.0163)Val+(0.0432)Leu+(-0.1571)Trp;0.799,0.828,0.782,0.776,0.780,0.768,0.814,0.785,(3.6453)+(-0.0012)Gly+(0.0022)Gln+(-0.0016)Orn+(0.0482)Ile+(-0.1761)Trp;0.799,0.829,0.767,0.765,0.771,0.794,0.742,0.768,(2.3880)+(0.0300)Ser+(-0.0063)Thr+(0.0101)Orn+(0.0089)Leu+(-0.1590)Trp;0.799,0.827,0.789,0.793,0.784,0.794,0.788,0.790,(4.7438)+(0.0015)Gln+(0.0084)Thr+(-0.0247)Val+(0.0466)Leu+(-0.1615)Trp;0.799,0.830,0.741,0.722,0.758,0.808,0.710,0.749,(-0.1389)+(0.0511)Ser+(-0.0568)Asn+(-0.0716)Cit+(-0.2780)Met+(0.0668)Ile;0.799,0.826,0.724,0.695,0.720,0.793,0.759,0.742,(5.5359)+(-0.1404)His+(0.0144)Thr+(-0.0409)Tyr+(0.0223)Orn+(0.0480)Ile;0.799,0.816,0.756,0.734,0.745,0.816,0.791,0.772,(3.9695)+(0.0073)Gln+(-0.1581)His+(0.0095)Thr+(-0.0174)Val+(0.0391)Leu;0.799,0.822,0.748,0.726,0.715

,0.815,0.824,0.770,(5.8713)+(-0.0919)His+(-0.0148)Arg+(-0.0376)Val+(0.0018)Lys+(0.1352)Ile;0.799,0.820,0.784,0.769,0.767,0.840,0.819,0.799,(3.8127)+(0.0006)Gly+(0.0092)Gln+(-0.1555)His+(-0.0041)Ala+(0.0172)Leu;0.799,0.828,0.776,0.783,0.780,0.810,0.725,0.774,(3.3640)+(0.0296)Ser+(0.0000)Thr+(0.0018)Val+(-0.0057)Lys+(-0.1480)Trp;0.799,0.827,0.757,0.766,0.756,0.791,0.707,0.755,(-2.4359)+(0.0543)Ser+(-0.0885)Asn+(-0.2910)Met+(-0.0062)Lys+(0.1123)Phe;0.799,0.827,0.725,0.699,0.732,0.822,0.707,0.740,(3.8780)+(0.0336)Ser+(-0.1402)His+(-0.0180)Tyr+(0.0038)Val+(0.0257)Orn;0.799,0.826,0.837,0.852,0.825,0.842,0.817,0.834,(5.3577)+(-0.0813)Asn+(0.0058)Gln+(-0.0037)Ala+(0.0216)Orn+(-0.1344)Trp;0.799,0.826,0.789,0.794,0.808,0.796,0.729,0.782,(5.9729)+(0.0258)Thr+(-0.2024)Met+(0.0002)Lys+(0.0171)Leu+(-0.1512)Trp;0.799,0.822,0.794,0.785,0.782,0.832,0.817,0.804,(4.2158)+(-0.0571)Asn+(0.0114)Gln+(-0.1465)His+(-0.0130)Tyr+(0.0149)Leu;0.799,0.827,0.733,0.697,0.743,0.794,0.766,0.750,(4.4107)+(-0.1536)His+(0.0157)Thr+(0.0194)Orn+(-0.0100)Lys+(0.0734)Phe;0.799,0.822,0.709,0.677,0.714,0.803,0.715,0.727,(3.2810)+(0.0390)Ser+(-0.1456)His+(0.0054)Pro+(-0.0217)Tyr+(0.0191)Leu;0.799,0.834,0.745,0.737,0.722,0.850,0.736,0.761,(0.0900)+(0.0442)Ser+(-0.0237)Arg+(-0.2653)Met+(0.1824)Ile+(-0.0818)Leu;0.799,0.822,0.749,0.728,0.715,0.817,0.827,0.772,(5.9316)+(-0.0907)His+(-0.0136)Arg+(-0.0004)Pro+(-0.0374)Val+(0.1363)Ile;0.799,0.820,0.720,0.702,0.719,0.819,0.700,0.735,(3.9736)+(0.0355)Ser+(-0.1321)His+(0.0021)Thr+(0.0080)Pro+(-0.0174)Tyr;0.799,0.821,0.783,0.772,0.769,0.840,0.799,0.795,(4.2581)+(-0.0003)Gly+(0.0081)Gln+(-0.1461)His+(-0.0034)Ala+(0.0246)Orn;0.799,0.827,0.730,0.732,0.735,0.765,0.691,0.731,(-3.2350)+(0.0559)Ser+(-0.0898)Asn+(0.0088)Pro+(-0.3496)Met+(0.1080)Phe;0.799,0.823,0.800,0.791,0.792,0.841,0.811,0.809,(4.0809)+(-0.0503)Asn+(0.0127)Gln+(-0.1497)His+(-0.0145)Arg+(0.0129)Leu;0.799,0.821,0.777,0.764,0.761,0.836,0.801,0.79

0,(4.1460)+(0.0078)Gln+(-0.1446)His+(-0.0053)Ala+(0.0069)Pro+(0.0217)Orn;0.799,0.822,0.744,0.713,0.733,0.817,0.792,0.764,(5.3929)+(-0.1099)His+(0.0085)Thr+(-0.0438)Cit+(0.1091)Ile+(-0.0448)Leu;0.799,0.831,0.806,0.804,0.800,0.808,0.823,0.809,(7.1073)+(-0.0681)Asn+(0.0070)Pro+(-0.0279)Val+(0.0516)Leu+(-0.1323)Trp;0.799,0.828,0.797,0.782,0.792,0.840,0.817,0.808,(3.5404)+(0.0115)Gln+(-0.1494)His+(0.0068)Tyr+(-0.1505)Met+(0.0210)Leu;0.799,0.823,0.776,0.765,0.764,0.836,0.789,0.788,(4.2934)+(0.0074)Gln+(-0.1485)His+(0.0058)Thr+(-0.0036)Ala+(0.0224)Orn;0.799,0.829,0.779,0.770,0.780,0.766,0.811,0.782,(3.6767)+(-0.0015)Gly+(0.0019)Gln+(0.0026)Thr+(0.0469)Ile+(-0.1776)Trp;0.799,0.829,0.788,0.793,0.806,0.800,0.728,0.782,(5.8038)+(0.0237)Thr+(-0.2012)Met+(0.0109)Orn+(0.0149)Leu+(-0.1500)Trp;0.799,0.820,0.737,0.700,0.734,0.807,0.791,0.758,(5.6945)+(-0.1410)His+(0.0158)Thr+(-0.0034)Pro+(-0.0077)Lys+(0.0526)Ile;0.799,0.825,0.754,0.751,0.744,0.787,0.761,0.761,(4.6813)+(-0.0389)Asn+(0.0053)Gly+(-0.1313)His+(-0.0352)Tyr+(0.1052)Phe;0.799,0.835,0.799,0.815,0.802,0.757,0.779,0.789,(3.9926)+(-0.0142)Arg+(-0.0291)Tyr+(0.0011)Lys+(0.0933)Phe+(-0.1589)Trp;0.799,0.828,0.812,0.799,0.825,0.828,0.807,0.815,(8.5766)+(-0.0845)His+(0.0227)Tyr+(0.0074)Val+(-0.0559)Met+(-0.1090)Trp;0.799,0.829,0.785,0.785,0.775,0.784,0.806,0.787,(4.1257)+(0.0032)Gln+(-0.0200)Tyr+(-0.0084)Lys+(0.0573)Ile+(-0.1595)Trp;0.799,0.828,0.810,0.826,0.806,0.814,0.772,0.805,(4.5916)+(0.0050)Gln+(0.0077)Pro+(-0.1709)Met+(0.0160)Orn+(-0.1360)Trp;0.799,0.823,0.812,0.818,0.831,0.826,0.748,0.806,(7.7443)+(-0.0403)Asn+(0.0037)Gly+(-0.0698)Cit+(0.0048)Val+(-0.1417)Trp;0.799,0.819,0.732,0.719,0.675,0.821,0.819,0.758,(1.0534)+(0.0380)Ser+(-0.0083)Gly+(-0.0372)Arg+(-0.0575)Val+(0.1658)Ile;0.799,0.829,0.792,0.800,0.784,0.829,0.761,0.793,(3.3245)+(0.0271)Ser+(0.0007)Gln+(-0.0044)Ala+(0.0030)Val+(-0.1479)Trp;0.799,0.824,0.773,0.751,0.779,0.789,0.805,0.781,(4.1671)+(0.0229)

Asn+(-0.1240)His+(0.0065)Pro+(-0.2198)Met+(0.1150)Phe;0.799,0.824,0.746,0.717,0.754,0.779,0.779,0.757,(4.9648)+(-0.0613)Asn+(-0.1457)His+(0.0204)Thr+(-0.0004)Pro+(0.0773)Phe;0.799,0.827,0.804,0.802,0.826,0.815,0.755,0.799,(6.8966)+(0.0037)Gly+(-0.0688)Cit+(-0.0822)Met+(0.0209)Leu+(-0.1480)Trp;0.799,0.826,0.822,0.828,0.836,0.823,0.775,0.816,(5.2309)+(0.0057)Gln+(-0.0769)Cit+(-0.0042)Arg+(0.0041)Val+(-0.1613)Trp;0.799,0.824,0.730,0.705,0.722,0.794,0.771,0.748,(5.9406)+(-0.1335)His+(0.0182)Thr+(-0.0343)Tyr+(-0.0051)Lys+(0.0548)Ile;0.799,0.826,0.796,0.812,0.799,0.801,0.744,0.789,(7.1085)+(-0.0808)Asn+(0.0177)Thr+(0.0055)Pro+(-0.0148)Tyr+(-0.1390)Trp;0.799,0.826,0.777,0.789,0.790,0.812,0.696,0.772,(3.9195)+(0.0294)Ser+(0.0046)Thr+(-0.0205)Arg+(0.0006)Val+(-0.1494)Trp;0.799,0.826,0.804,0.815,0.812,0.801,0.761,0.797,(7.0069)+(-0.0831)Asn+(-0.0009)Gly+(0.0169)Thr+(0.0042)Pro+(-0.1445)Trp;0.799,0.828,0.706,0.684,0.711,0.769,0.710,0.718,(-4.9240)+(0.0541)Ser+(-0.0012)Gln+(-0.4423)Met+(0.0555)Ile+(0.0877)Phe;0.799,0.820,0.756,0.744,0.737,0.814,0.782,0.770,(4.1552)+(0.0047)Gly+(-0.1385)His+(-0.0040)Ala+(-0.0031)Val+(0.0923)Phe;0.799,0.827,0.824,0.825,0.846,0.844,0.763,0.819,(7.1986)+(0.0035)Gly+(-0.0638)Cit+(0.0302)Tyr+(-0.1000)Met+(-0.1394)Trp;0.799,0.829,0.818,0.835,0.812,0.815,0.788,0.813,(4.7651)+(0.0058)Gln+(0.0092)Pro+(-0.0011)Val+(-0.1635)Met+(-0.1340)Trp;0.799,0.827,0.808,0.793,0.829,0.825,0.796,0.811,(8.7449)+(-0.0783)His+(-0.0395)Cit+(0.0155)Tyr+(0.0084)Val+(-0.1182)Trp;0.799,0.829,0.802,0.795,0.784,0.819,0.844,0.810,(5.6293)+(-0.0076)Ala+(-0.0087)Arg+(-0.0026)Lys+(0.0698)Ile+(-0.1505)Trp;0.798,0.822,0.769,0.748,0.747,0.822,0.836,0.788,(5.0011)+(-0.1308)His+(-0.0040)Ala+(-0.0185)Val+(0.0317)Leu+(0.0785)Phe;0.798,0.834,0.742,0.733,0.714,0.840,0.756,0.761,(-0.6135)+(0.0405)Ser+(0.0025)Tyr+(-0.3143)Met+(0.1707)Ile+(-0.0752)Leu;0.798,0.831,0.748,0.723,0.736,0.816,0.792,0.767,(4.2599)+(-0.1482)His+(0.0130)

Thr+(-0.0054)Ala+(0.0187)Orn+(0.0734)Phe;0.798,0.827,0.763,0.763,0.756,0.766,0.776,0.765,(4.5665)+(0.0071)Thr+(-0.0278)Tyr+(0.0023)Orn+(0.0518)Ile+(-0.1649)Trp;0.798,0.827,0.800,0.803,0.746,0.865,0.856,0.818,(2.0407)+(0.0042)Gln+(-0.0078)Ala+(-0.2243)Met+(0.1804)Ile+(-0.0811)Leu;0.798,0.822,0.747,0.726,0.757,0.833,0.718,0.758,(4.6027)+(0.0433)Ser+(-0.0543)Asn+(-0.1203)His+(-0.0319)Cit+(0.0054)Val;0.798,0.823,0.800,0.799,0.782,0.847,0.807,0.809,(4.2826)+(0.0106)Gln+(-0.1294)His+(-0.0032)Ala+(0.0106)Pro+(-0.1196)Met;0.798,0.824,0.786,0.773,0.781,0.836,0.797,0.797,(4.2561)+(-0.0644)Asn+(0.0101)Gln+(-0.1425)His+(0.0031)Pro+(0.0205)Orn;0.798,0.820,0.745,0.728,0.740,0.829,0.742,0.760,(4.6376)+(0.0402)Ser+(-0.0056)Gly+(-0.1294)His+(0.0070)Thr+(-0.0138)Tyr;0.798,0.828,0.779,0.791,0.779,0.808,0.728,0.776,(3.3489)+(0.0273)Ser+(0.0004)Gln+(-0.0010)Thr+(-0.0082)Tyr+(-0.1479)Trp;0.798,0.831,0.776,0.743,0.798,0.822,0.787,0.787,(4.6458)+(-0.1169)His+(-0.0562)Cit+(-0.1665)Met+(0.0395)Orn+(0.1007)Phe;0.798,0.823,0.795,0.787,0.793,0.843,0.785,0.802,(4.4418)+(-0.0506)Asn+(0.0115)Gln+(-0.1412)His+(-0.0174)Arg+(0.0256)Orn;0.798,0.822,0.744,0.755,0.677,0.789,0.824,0.761,(2.2715)+(-0.0292)Arg+(-0.0568)Tyr+(-0.0564)Val+(0.1606)Ile+(0.0725)Phe;0.798,0.825,0.800,0.801,0.829,0.818,0.725,0.793,(6.9902)+(0.0156)Thr+(-0.0718)Cit+(-0.0061)Arg+(0.0031)Val+(-0.1621)Trp;0.798,0.831,0.806,0.799,0.814,0.821,0.800,0.808,(8.5975)+(-0.0851)His+(0.0035)Arg+(0.0085)Val+(-0.0279)Met+(-0.1041)Trp;0.798,0.824,0.794,0.793,0.818,0.807,0.741,0.790,(6.6639)+(0.0026)Gly+(-0.0784)Cit+(0.0080)Pro+(0.0024)Val+(-0.1553)Trp;0.798,0.819,0.720,0.715,0.670,0.821,0.761,0.742,(0.6686)+(0.0289)Ser+(-0.0401)Arg+(-0.0431)Val+(0.1966)Ile+(-0.0430)Leu;0.798,0.821,0.741,0.705,0.740,0.805,0.795,0.761,(5.8955)+(-0.0402)Asn+(-0.1382)His+(0.0170)Thr+(-0.0030)Pro+(0.0473)Ile;0.798,0.826,0.778,0.791,0.789,0.814,0.695,0.772,(4.0825)+(0.0289)Ser+(0.0055)Thr+(-0.0201)Arg+

(-0.0038)Tyr+(-0.1471)Trp;0.798,0.820,0.810,0.811,0.790,0.854,0.815,0.817,(4.7111)+(-0.0566)Asn+(0.0006)Gly+(0.0111)Gln+(-0.1339)His+(-0.0018)Ala;0.798,0.829,0.801,0.811,0.810,0.803,0.756,0.795,(6.6025)+(-0.0870)Asn+(0.0140)Thr+(0.0033)Pro+(0.0148)Orn+(-0.1436)Trp;0.798,0.828,0.793,0.786,0.786,0.844,0.789,0.801,(4.1777)+(0.0001)Gly+(0.0096)Gln+(-0.1379)His+(-0.1095)Met+(0.0258)Orn;0.798,0.826,0.715,0.672,0.718,0.788,0.772,0.738,(3.2633)+(0.0047)Gly+(-0.1550)His+(0.0123)Orn+(0.0307)Ile+(0.0527)Phe;0.798,0.823,0.748,0.730,0.755,0.833,0.718,0.759,(4.6240)+(0.0434)Ser+(-0.0463)Asn+(-0.1248)His+(-0.0105)Arg+(0.0049)Val;0.798,0.822,0.710,0.677,0.717,0.806,0.713,0.728,(3.4778)+(0.0368)Ser+(-0.1498)His+(0.0049)Thr+(-0.0189)Tyr+(0.0220)Leu;0.798,0.826,0.767,0.748,0.763,0.805,0.795,0.778,(5.0040)+(-0.0492)Asn+(-0.1228)His+(-0.0106)Val+(0.0312)Orn+(0.0858)Phe;0.798,0.826,0.761,0.737,0.771,0.825,0.756,0.772,(6.6536)+(-0.1322)His+(0.0330)Thr+(-0.0024)Ala+(-0.1934)Met+(0.0268)Leu;0.798,0.823,0.733,0.710,0.729,0.796,0.758,0.748,(3.6900)+(0.0037)Gly+(-0.1445)His+(
-0.0077)Val+(0.0249)Orn+(0.0826)Phe;0.798,0.821,0.723,0.698,0.715,0.789,0.758,0.740,(5.4896)+(0.0016)Gly+(-0.1380)His+(0.0151)Thr+(-0.0347)Tyr+(0.0531)Ile;0.798,0.827,0.823,0.835,0.821,0.818,0.797,0.818,(4.5699)+(0.0058)Gln+(0.0082)Pro+(0.0133)Tyr+(-0.1838)Met+(-0.1387)Trp;0.798,0.818,0.765,0.762,0.694,0.840,0.867,0.791,(3.6919)+(0.0003)Gly+(-0.0093)Ala+(-0.0222)Arg+(-0.0546)Val+(0.1810)Ile;0.798,0.819,0.782,0.773,0.766,0.838,0.796,0.793,(4.1708)+(0.0085)Gln+(-0.1535)His+(0.0080)Thr+(-0.0037)Ala+(0.0044)Val;0.798,0.825,0.763,0.728,0.752,0.837,0.828,0.786,(5.9426)+(-0.1254)His+(-0.0067)Ala+(-0.0077)Arg+(0.0254)Orn+(0.0518)Ile;0.798,0.824,0.815,0.811,0.826,0.818,0.802,0.814,(7.2702)+(-0.0042)Ala+(-0.0693)Cit+(-0.0002)Lys+(0.0215)Leu+(-0.1521)Trp;0.798,0.824,0.802,0.800,0.790,0.841,0.801,0.808,(4.2519)+(-0.0294)Asn+(0.0

116)Gln+(-0.1314)His+(0.0078)Pro+(-0.1104)Met;0.798,0.823,0.746,0.731,0.748,0.836,0.717,0.758,(4.8485)+(0.0386)Ser+(-0.0707)Asn+(-0.1218)His+(0.0086)Thr+(0.0014)Lys;0.798,0.820,0.743,0.729,0.737,0.842,0.722,0.758,(4.4623)+(0.0338)Ser+(-0.1297)His+(0.0054)Thr+(-0.0021)Ala+(-0.0012)Lys;0.798,0.829,0.787,0.781,0.784,0.787,0.811,0.791,(3.8658)+(0.0028)Gln+(0.0028)Orn+(-0.0104)Lys+(0.0543)Ile+(-0.1663)Trp;0.798,0.827,0.805,0.814,0.812,0.807,0.768,0.800,(6.6960)+(-0.0325)Asn+(0.0075)Pro+(-0.1139)Met+(0.0235)Orn+(-0.1278)Trp;0.798,0.826,0.749,0.741,0.680,0.851,0.837,0.777,(0.2776)+(0.0292)Ser+(-0.0116)Ala+(-0.0169)Lys+(0.1691)Ile+(-0.0753)Leu;0.798,0.824,0.779,0.752,0.765,0.834,0.841,0.798,(6.4110)+(-0.1026)His+(-0.0063)Ala+(0.0063)Pro+(-0.1330)Met+(0.0642)Ile;0.798,0.818,0.793,0.789,0.779,0.837,0.800,0.801,(4.3222)+(-0.0636)Asn+(0.0011)Gly+(0.0109)Gln+(-0.1398)His+(0.0046)Pro;0.798,0.818,0.710,0.668,0.725,0.812,0.715,0.730,(3.1776)+(0.0403)Ser+(-0.1453)His+(-0.0332)Cit+(0.0036)Pro+(0.0178)Leu;0.798,0.828,0.778,0.785,0.781,0.809,0.728,0.776,(3.2479)+(0.0290)Ser+(0.0005)Gln+(0.0017)Val+(-0.0059)Lys+(-0.1485)Trp;0.798,0.828,0.765,0.764,0.770,0.791,0.739,0.766,(2.6225)+(0.0305)Ser+(-0.0003)Gln+(-0.0040)Thr+(0.0110)Leu+(-0.1596)Trp;0.798,0.827,0.776,0.786,0.776,0.807,0.725,0.774,(3.3624)+(0.0280)Ser+(-0.0011)Thr+(-0.0086)Tyr+(0.0009)Val+(-0.1487)Trp;0.798,0.828,0.794,0.796,0.798,0.811,0.765,0.793,(4.1935)+(0.0419)Ser+(-0.0079)Gly+(-0.0172)Arg+(0.0011)Val+(-0.1477)Trp;0.798,0.827,0.750,0.739,0.759,0.840,0.696,0.758,(5.2582)+(0.0390)Ser+(-0.0591)Asn+(-0.1203)His+(0.0124)Thr+(-0.0142)Arg;0.798,0.822,0.746,0.735,0.749,0.844,0.697,0.756,(4.8667)+(0.0352)Ser+(-0.1281)His+(0.0100)Thr+(-0.0019)Ala+(-0.0171)Arg;0.798,0.830,0.774,0.758,0.778,0.802,0.792,0.782,(4.5291)+(-0.1242)His+(-0.0234)Tyr+(-0.1474)Met+(0.0273)Orn+(0.1105)Phe;0.798,0.822,0.827,0.832,0.838,0.829,0.790,0.822,(8.1881)+(-0.0270)Asn+(-0.0026)Ala+(-0.0640

)Cit+(0.0060)Val+(-0.1390)Trp;0.798,0.831,0.788,0.797,0.812,0.800,0.709,0.779,(6.4271)+(0.0297)Thr+(-0.0130)Arg+(-0.1932)Met+(0.0170)Leu+(-0.1495)Trp;0.798,0.827,0.821,0.836,0.816,0.813,0.796,0.815,(4.7985)+(-0.0011)Gly+(0.0060)Gln+(0.0089)Pro+(-0.1633)Met+(-0.1358)Trp;0.798,0.823,0.815,0.817,0.799,0.854,0.812,0.821,(4.6126)+(-0.0370)Asn+(0.0116)Gln+(-0.1301)His+(-0.0006)Ala+(-0.0660)Met;0.798,0.829,0.784,0.799,0.793,0.814,0.703,0.777,(3.6198)+(0.0276)Ser+(0.0014)Gln+(0.0042)Thr+(-0.0217)Arg+(-0.1503)Trp;0.798,0.826,0.788,0.793,0.733,0.862,0.839,0.807,(4.3957)+(-0.0106)Ala+(-0.0821)Cit+(-0.0288)Tyr+(0.1818)Ile+(-0.0820)Leu;0.798,0.828,0.764,0.768,0.767,0.785,0.732,0.763,(2.8449)+(0.0293)Ser+(-0.0020)Thr+(-0.0130)Tyr+(0.0122)Leu+(-0.1565)Trp;0.798,0.828,0.801,0.784,0.816,0.820,0.804,0.806,(8.8042)+(-0.0779)His+(-0.0349)Cit+(-0.0274)Met+(0.0262)Leu+(-0.1144)Trp;0.798,0.826,0.818,0.810,0.832,0.820,0.811,0.818,(7.0749)+(-0.0049)Ala+(-0.0720)Cit+(0.0123)Tyr+(0.0211)Leu+(-0.1569)Trp;0.798,0.823,0.769,0.746,0.768,0.826,0.791,0.783,(3.7726)+(0.0088)Gln+(-0.1589)His+(0.0188)Orn+(-0.0066)Lys+(0.0129)Leu;0.798,0.822,0.781,0.768,0.769,0.838,0.801,0.794,(4.1232)+(0.0082)Gln+(-0.1493)His+(-0.0037)Ala+(0.0023)Val+(0.0227)Orn;0.798,0.820,0.728,0.704,0.718,0.791,0.770,0.746,(5.7572)+(-0.1372)His+(0.0166)Thr+(-0.0009)Pro+(-0.0360)Tyr+(0.0533)Ile;0.798,0.827,0.726,0.728,0.762,0.771,0.613,0.719,(-2.9935)+(0.0446)Ser+(0.0184)Thr+(-0.0877)Cit+(-0.4353)Met+(0.1248)Phe;0.798,0.822,0.766,0.751,0.763,0.823,0.771,0.777,(4.2189)+(0.0077)Gln+(-0.1529)His+(0.0066)Thr+(0.0215)Orn+(-0.0051)Lys;0.798,0.825,0.764,0.786,0.711,0.777,0.804,0.770,(2.2574)+(-0.0889)Asn+(-0.0702)Tyr+(0.1565)Ile+(-0.0958)Leu+(0.0962)Phe;0.798,0.820,0.799,0.795,0.786,0.842,0.804,0.807,(4.3629)+(-0.0590)Asn+(0.0009)Gly+(0.0111)Gln+(-0.1418)His+(0.0020)Val;0.798,0.826,0.814,0.808,0.823,0.819,0.808,0.815,(7.0167)+(-0.0046)Ala+(-0.0746)Cit+(0.0068)Arg+(0.0218)L

eu+(-0.1547)Trp;0.798,0.829,0.763,0.739,0.753,0.819,0.809,0.780,(4.5646)+(-0.1381)His+(-0.0051)Ala+(0.0251)Orn+(0.0005)Leu+(0.0719)Phe;0.798,0.828,0.773,0.750,0.765,0.821,0.819,0.789,(5.0269)+(-0.0313)Asn+(-0.1298)His+(-0.0048)Ala+(0.0264)Orn+(0.0746)Phe;0.798,0.826,0.815,0.809,0.831,0.812,0.798,0.813,(7.6125)+(-0.0436)Asn+(-0.0722)Cit+(0.0090)Arg+(0.0163)Leu+(-0.1519)Trp;0.798,0.827,0.814,0.831,0.809,0.802,0.786,0.807,(4.5007)+(0.0053)Gln+(0.0089)Pro+(-0.1804)Met+(0.0058)Lys+(-0.1407)Trp;0.798,0.825,0.795,0.795,0.816,0.810,0.741,0.791,(6.6971)+(0.0024)Gly+(-0.0758)Cit+(0.0085)Pro+(0.0012)Lys+(-0.1526)Trp;0.798,0.821,0.820,0.832,0.833,0.837,0.751,0.813,(8.1215)+(-0.0341)Asn+(0.0034)Gly+(-0.0605)Cit+(-0.0235)Met+(-0.1286)Trp;0.798,0.818,0.768,0.766,0.696,0.845,0.867,0.793,(3.3220)+(0.0012)Gln+(-0.0095)Ala+(-0.0240)Arg+(-0.0545)Val+(0.1802)Ile;0.798,0.818,0.736,0.712,0.726,0.800,0.776,0.753,(4.0614)+(0.0042)Gly+(-0.1428)His+(-0.0182)Val+(0.0282)Leu+(0.0785)Phe;0.798,0.821,0.740,0.718,0.736,0.835,0.736,0.756,(3.9791)+(0.0378)Ser+(-0.1369)His+(-0.0031)Ala+(-0.0059)Tyr+(0.0079)Val;0.798,0.826,0.764,0.764,0.758,0.768,0.777,0.767,(4.6018)+(0.0076)Thr+(-0.0010)Pro+(-0.0267)Tyr+(0.0536)Ile+(-0.1653)Trp;0.798,0.825,0.813,0.808,0.814,0.821,0.818,0.816,(7.2271)+(-0.0039)Ala+(-0.0627)Cit+(-0.0158)Val+(0.0466)Leu+(-0.1490)Trp;0.798,0.825,0.796,0.791,0.819,0.804,0.756,0.792,(6.6424)+(0.0031)Gly+(-0.0773)Cit+(-0.0023)Lys+(0.0185)Leu+(-0.1594)Trp;0.798,0.825,0.801,0.795,0.753,0.876,0.862,0.822,(4.8613)+(-0.0471)Asn+(-0.0108)Ala+(-0.0804)Cit+(0.1746)Ile+(-0.0803)Leu;0.798,0.823,0.802,0.800,0.823,0.804,0.765,0.798,(6.9746)+(-0.0731)Cit+(0.0078)Pro+(0.0017)Val+(0.0009)Lys+(-0.1544)Trp;0.798,0.828,0.768,0.771,0.782,0.799,0.706,0.765,(3.3157)+(0.0309)Ser+(0.0032)Thr+(-0.0211)Arg+(0.0116)Leu+(-0.1589)Trp;0.798,0.827,0.778,0.791,0.791,0.815,0.696,0.773,(4.0330)+(0.0293)Ser+(0.0053)Thr+(-0.0199)Arg+(-0.0011)Lys+(-0.1475)Trp

;0.798,0.826,0.777,0.769,0.776,0.771,0.803,0.780,(3.5388)+(0.0018)Gln+(0.0024)Thr+(-0.0028)Pro+(0.0509)Ile+(-0.1768)Trp;0.798,0.820,0.779,0.772,0.757,0.839,0.798,0.791,(4.3046)+(0.0081)Gln+(-0.1451)His+(0.0068)Thr+(-0.0050)Ala+(0.0072)Pro;0.798,0.820,0.760,0.755,0.688,0.838,0.865,0.787,(3.7599)+(-0.0108)Ala+(-0.0237)Arg+(0.0070)Pro+(-0.0550)Val+(0.1769)Ile;0.798,0.829,0.758,0.755,0.768,0.788,0.723,0.759,(2.7371)+(0.0282)Ser+(-0.0010)Gln+(0.0080)Orn+(0.0087)Leu+(-0.1620)Trp;0.798,0.829,0.790,0.788,0.788,0.800,0.792,0.792,(5.4286)+(-0.0273)Val+(0.0246)Orn+(-0.0049)Lys+(0.0508)Leu+(-0.1473)Trp;0.798,0.817,0.785,0.782,0.766,0.842,0.795,0.796,(4.4949)+(-0.0009)Gly+(0.0084)Gln+(-0.1472)His+(0.0090)Thr+(-0.0029)Ala;0.798,0.824,0.725,0.684,0.735,0.783,0.768,0.743,(4.3740)+(-0.1554)His+(0.0178)Thr+(-0.0177)Arg+(0.0295)Ile+(0.0559)Phe;0.798,0.827,0.791,0.782,0.786,0.843,0.789,0.800,(4.0244)+(0.0099)Gln+(-0.1418)His+(0.0027)Val+(-0.1149)Met+(0.0233)Orn;0.798,0.826,0.739,0.723,0.717,0.828,0.765,0.758,(-1.7039)+(0.0434)Ser+(0.0064)Thr+(-0.0075)Ala+(-0.3313)Met+(0.0793)Ile;0.798,0.826,0.792,0.783,0.794,0.794,0.814,0.796,(5.6186)+(-0.0587)Asn+(-0.0009)Pro+(0.0090)Orn+(0.0481)Ile+(-0.1551)Trp;0.798,0.819,0.757,0.748,0.692,0.845,0.849,0.784,(3.4578)+(-0.0096)Ala+(-0.0286)Arg+(-0.0572)Val+(0.0285)Orn+(0.1796)Ile;0.798,0.827,0.740,0.727,0.731,0.776,0.768,0.751,(4.4920)+(-0.1370)His+(0.0031)Pro+(-0.0497)Tyr+(0.0273)Orn+(0.0888)Phe;0.798,0.821,0.769,0.737,0.748,0.835,0.849,0.792,(6.0670)+(-0.0096)Asn+(-0.1183)His+(-0.0074)Ala+(0.0041)Pro+(0.0544)Ile;0.798,0.827,0.740,0.706,0.750,0.783,0.777,0.754,(4.7293)+(-0.0612)Asn+(-0.1464)His+(0.0179)Thr+(0.0161)Orn+(0.0708)Phe;0.798,0.822,0.718,0.695,0.721,0.815,0.705,0.734,(3.7148)+(0.0373)Ser+(-0.1371)His+(0.0072)Pro+(-0.0194)Tyr+(0.0043)Val;0.798,0.822,0.738,0.711,0.747,0.826,0.729,0.753,(4.1846)+(0.0458)Ser+(-0.0043)Gly+(-0.1301)His+(-0.0161)Arg+(0.0074)Pro;0.798,0.818,0.725,0

.698,0.739,0.819,0.697,0.738,(3.8656)+(0.0408)Ser+(-0.1361)His+(-0.0168)Arg+(0.0067)Pro+(0.0029)Val;0.798,0.827,0.748,0.730,0.756,0.833,0.717,0.759,(3.8441)+(0.0429)Ser+(-0.1268)His+(0.0083)Val+(-0.1363)Met+(0.0032)Lys;0.798,0.827,0.826,0.836,0.838,0.830,0.772,0.819,(5.4007)+(0.0004)Gly+(0.0058)Gln+(-0.0720)Cit+(-0.0042)Arg+(-0.1532)Trp;0.798,0.831,0.848,0.861,0.846,0.844,0.820,0.843,(5.0998)+(-0.0544)Asn+(0.0075)Gln+(0.0184)Tyr+(-0.1226)Met+(-0.1367)Trp;0.798,0.826,0.772,0.760,0.776,0.766,0.801,0.776,(4.2726)+(-0.0011)Gly+(0.0046)Thr+(-0.0009)Orn+(0.0481)Ile+(-0.1749)Trp;0.798,0.822,0.793,0.790,0.781,0.840,0.788,0.800,(4.0194)+(0.0008)Gly+(0.0107)Gln+(-0.1343)His+(0.0084)Pro+(-0.1341)Met;0.798,0.820,0.740,0.715,0.740,0.821,0.747,0.756,(4.1399)+(0.0438)Ser+(-0.0048)Gly+(-0.1349)His+(-0.0148)Tyr+(0.0059)Val;0.798,0.826,0.781,0.775,0.778,0.772,0.810,0.783,(3.5387)+(0.0021)Gln+(-0.0025)Pro+(-0.0010)Orn+(0.0514)Ile+(-0.1754)Trp;0.798,0.824,0.809,0.825,0.816,0.812,0.754,0.802,(7.2554)+(-0.0882)Asn+(0.0178)Thr+(-0.0035)Val+(0.0037)Lys+(-0.1391)Trp;0.798,0.820,0.799,0.785,0.795,0.837,0.818,0.809,(4.1156)+(-0.0638)Asn+(0.0124)Gln+(-0.1429)His+(-0.0394)Cit+(0.0146)Leu;0.798,0.819,0.772,0.753,0.766,0.826,0.799,0.786,(3.7274)+(0.0005)Gly+(0.0095)Gln+(-0.1593)His+(-0.0050)Lys+(0.0155)Leu;0.798,0.829,0.748,0.727,0.755,0.797,0.756,0.758,(4.8456)+(-0.1267)His+(-0.0642)Cit+(-0.0496)Tyr+(0.0470)Orn+(0.0924)Phe;0.798,0.821,0.745,0.727,0.750,0.831,0.724,0.758,(4.4950)+(0.0421)Ser+(-0.0539)Asn+(-0.1249)His+(-0.0059)Tyr+(0.0052)Val;0.798,0.824,0.809,0.818,0.813,0.794,0.785,0.802,(6.7528)+(-0.0347)Asn+(0.0092)Pro+(-0.1275)Met+(0.0099)Lys+(-0.1357)Trp;0.798,0.821,0.740,0.712,0.72

4,0.814,0.791,0.760,(4.9446)+(0.0032)Gly+(-0.1169)His+(-0.0010)Lys+(0.1067)Ile+(-0.0426)Leu;0.798,0.820,0.755,0.741,0.738,0.816,0.783,0.770,(4.1585)+(0.0049)Gly+(-0.1405)His+(-0.0044)Ala+(-0.0009)Lys+(0.0882

)Phe;0.798,0.820,0.744,0.719,0.748,0.842,0.730,0.760,(4.1256)+(0.0397)Ser+(-0.1303)His+(-0.0040)Ala+(-0.0379)Cit+(0.0092)Val;0.798,0.819,0.726,0.691,0.727,0.800,0.763,0.745,(5.3732)+(-0.0489)Asn+(0.0040)Gly+(-0.1378)His+(0.0144)Thr+(0.0465)Ile;0.798,0.833,0.746,0.727,0.718,0.837,0.790,0.768,(-1.0239)+(0.0464)Ser+(-0.0074)Ala+(-0.2715)Met+(-0.0117)Lys+(0.0865)Ile;0.798,0.826,0.793,0.778,0.802,0.854,0.773,0.802,(4.3775)+(0.0098)Gln+(-0.1279)His+(-0.0650)Cit+(-0.1095)Met+(0.0431)Orn;0.798,0.824,0.791,0.786,0.782,0.838,0.792,0.799,(4.6078)+(-0.0589)Asn+(0.0100)Gln+(-0.1361)His+(-0.0137)Tyr+(0.0259)Orn;0.798,0.824,0.756,0.731,0.736,0.819,0.819,0.776,(5.4989)+(-0.1121)His+(-0.0033)Pro+(-0.0001)Lys+(0.1143)Ile+(-0.0465)Leu;0.798,0.829,0.797,0.803,0.807,0.813,0.748,0.793,(6.1075)+(0.0263)Thr+(-0.0029)Ala+(-0.1849)Met+(0.0194)Leu+(-0.1491)Trp;0.798,0.829,0.792,0.781,0.795,0.795,0.814,0.796,(5.6897)+(-0.0536)Asn+(0.0101)Orn+(-0.0035)Lys+(0.0491)Ile+(-0.1529)Trp;0.798,0.823,0.806,0.821,0.789,0.824,0.793,0.807,(4.8223)+(0.0027)Gln+(0.0066)Thr+(-0.0073)Ala+(0.0092)Pro+(-0.1490)Trp;0.798,0.819,0.785,0.783,0.766,0.842,0.789,0.795,(4.5337)+(0.0084)Gln+(-0.1459)His+(0.0094)Thr+(-0.0028)Ala+(-0.0021)Lys;0.798,0.828,0.782,0.794,0.782,0.815,0.727,0.780,(3.4649)+(0.0280)Ser+(0.0007)Gln+(-0.0057)Tyr+(-0.0045)Lys+(-0.1446)Trp;0.797,0.821,0.768,0.737,0.746,0.835,0.848,0.792,(5.9945)+(-0.1190)His+(-0.0074)Ala+(0.0040)Pro+(-0.0020)Lys+(0.0559)Ile;0.797,0.825,0.733,0.695,0.756,0.835,0.713,0.750,(4.0065)+(0.0372)Ser+(-0.0026)Gly+(-0.1314)His+(-0.0600)Cit+(0.0417)Orn;0.797,0.830,0.714,0.694,0.712,0.771,0.730,0.727,(-5.2396)+(0.0542)Ser+(-0.4490)Met+(-0.0139)Orn+(0.0601)Ile+(0.0919)Phe;0.797,0.827,0.828,0.837,0.839,0.831,0.780,0.822,(5.4287)+(0.0056)Gln+(-0.0744)Cit+(0.0006)Tyr+(-0.0010)Lys+(-0.1535)Trp;0.797,0.827,0.755,0.733,0.760,0.835,0.743,0.768,(4.0464)+(0.0482)Ser+(-0.0037)Gly+(-0.1237)His+(0.0082)Val+(-0.1213)Met;0.797,0

.826,0.826,0.835,0.836,0.830,0.775,0.819,(5.3539)+(0.0005)Gly+(0.0054)Gln+(-0.0749)Cit+(0.0003)Tyr+(-0.1544)Trp;0.797,0.823,0.761,0.746,0.756,0.837,0.758,0.774,(5.0137)+(0.0467)Ser+(-0.0545)Asn+(-0.0044)Gly+(-0.1139)His+(-0.0036)Tyr;0.797,0.823,0.759,0.747,0.754,0.845,0.737,0.771,(4.9285)+(0.0409)Ser+(-0.0566)Asn+(-0.1146)His+(-0.0014)Ala+(0.0033)Tyr;0.797,0.820,0.773,0.758,0.769,0.827,0.782,0.784,(4.1085)+(-0.0003)Gly+(0.0084)Gln+(-0.1508)His+(0.0233)Orn+(-0.0035)Lys;0.797,0.825,0.759,0.733,0.744,0.816,0.822,0.779,(5.7072)+(-0.0247)Asn+(-0.1065)His+(0.0018)Lys+(0.1095)Ile+(-0.0472)Leu;0.797,0.823,0.816,0.831,0.816,0.832,0.766,0.811,(7.4565)+(-0.0757)Asn+(0.0201)Thr+(-0.0032)Ala+(-0.0006)Val+(-0.1371)Trp;0.797,0.823,0.774,0.745,0.761,0.831,0.838,0.794,(6.0149)+(0.0344)Asn+(-0.1117)His+(-0.0050)Ala+(-0.1553)Met+(0.0729)Ile;0.797,0.827,0.777,0.785,0.779,0.804,0.733,0.775,(3.1101)+(0.0283)Ser+(0.0002)Gln+(-0.0026)Thr+(0.0004)Val+(-0.1511)Trp;0.797,0.825,0.760,0.776,0.755,0.780,0.717,0.757,(-3.2570)+(0.0522)Ser+(-0.1032)Asn+(0.0022)Gln+(-0.3106)Met+(0.1074)Phe;0.797,0.828,0.788,0.775,0.787,0.800,0.813,0.794,(4.3505)+(-0.1229)His+(-0.0070)Val+(-0.1995)Met+(0.0103)Lys+(0.1261)Phe;0.797,0.822,0.753,0.744,0.671,0.829,0.894,0.784,(2.1243)+(-0.0024)Gln+(-0.0112)Ala+(-0.0559)Val+(0.1718)Ile+(0.0418)Phe;0.797,0.821,0.733,0.703,0.739,0.824,0.735,0.750,(3.9719)+(0.0427)Ser+(-0.0036)Gly+(-0.1305)His+(-0.0267)Cit+(0.0066)Pro;0.797,0.830,0.782,0.774,0.781,0.786,0.803,0.786,(3.9419)+(0.0024)Gln+(0.0061)Thr+(-0.0118)Lys+(0.0547)Ile+(-0.1689)Trp;0.797,0.821,0.758,0.750,0.681,0.843,0.879,0.788,(3.3230)+(0.0059)Thr+(-0.0099)Ala+(-0.0513)Val+(-0.0133)Lys+(0.1767)Ile;0.797,0.819,0.764,0.766,0.691,0.836,0.860,0.788,(4.2053)+(-0.0085)Ala+(-0.0202)Arg+(-0.0194)Tyr+(-0.0527)Val+(0.1796)Ile;0.797,0.828,0.800,0.793,0.783,0.817,0.841,0.809,(5.5399)+(-0.0076)Ala+(-0.0102)Arg+(-0.0011)Tyr+(0.0684)Ile+(-0.1522)Trp;0.797,0.826,0.802,

0.814,0.820,0.812,0.728,0.793,(7.0151)+(-0.0737)Asn+(0.0181)Thr+(-0.0157)Arg+(0.0202)Orn+(-0.1423)Trp;0.797,0.826,0.831,0.845,0.826,0.819,0.814,0.826,(5.2452)+(-0.0875)Asn+(-0.0006)Gly+(0.0063)Gln+(0.0050)Pro+(-0.1415)Trp;0.797,0.825,0.779,0.759,0.785,0.796,0.810,0.787,(4.1963)+(0.0168)Asn+(-0.1307)His+(-0.2110)Met+(0.0071)Lys+(0.1163)Phe;0.797,0.819,0.724,0.685,0.726,0.802,0.767,0.745,(5.1546)+(0.0029)Gly+(-0.1417)His+(0.0126)Thr+(-0.0074)Lys+(0.0502)Ile;0.797,0.821,0.722,0.692,0.732,0.814,0.712,0.738,(3.7123)+(0.0418)Ser+(-0.1426)His+(-0.0129)Arg+(-0.0121)Tyr+(0.0215)Leu;0.797,0.833,0.784,0.779,0.792,0.798,0.768,0.784,(3.6683)+(0.0424)Ser+(-0.0078)Gly+(-0.0183)Arg+(0.0112)Leu+(-0.1569)Trp;0.797,0.831,0.766,0.762,0.761,0.779,0.778,0.770,(5.0754)+(0.0116)Thr+(-0.0246)Tyr+(-0.0096)Lys+(0.0580)Ile+(-0.1588)Trp;0.797,0.829,0.750,0.727,0.762,0.838,0.722,0.762,(3.7509)+(0.0445)Ser+(-0.1274)His+(0.0142)Tyr+(0.0082)Val+(-0.1494)Met;0.797,0.818,0.772,0.760,0.765,0.824,0.778,0.782,(4.1447)+(0.0087)Gln+(-0.1565)His+(0.0085)Thr+(0.0032)Val+(-0.0046)Lys;0.797,0.829,0.843,0.861,0.836,0.842,0.810,0.837,(5.2404)+(-0.0558)Asn+(0.0076)Gln+(0.0007)Val+(-0.0934)Met+(-0.1327)Trp;0.797,0.828,0.783,0.781,0.782,0.797,0.777,0.784,(5.6146)+(0.0141)Thr+(-0.0263)Val+(-0.0075)Lys+(0.0532)Leu+(-0.1561)Trp;0.797,0.827,0.790,0.772,0.792,0.810,0.822,0.799,(4.5285)+(-0.1258)His+(-0.0022)Ala+(-0.1850)Met+(0.0080)Lys+(0.1153)Phe;0.797,0.821,0.771,0.741,0.750,0.838,0.846,0.794,(6.1821)+(-0.0063)Asn+(-0.1191)His+(-0.0064)Ala+(-0.0012)Lys+(0.0587)Ile;0.797,0.834,0.742,0.733,0.715,0.839,0.754,0.760,(-0.3905)+(0.0408)Ser+(-0.2982)Met+(-0.0036)Lys+(0.1699)Ile+(-0.0731)Leu;0.797,0.826,0.820,0.826,0.834,0.823,0.774,0.814,(5.2129)+(0.0055)Gln+(-0.0791)Cit+(-0.0029)Tyr+(0.0043)Val+(-0.1613)Trp;0.797,0.821,0.754,0.737,0.736,0.819,0.787,0.770,(4.0928)+(0.0049)Gly+(-0.1427)His+(-0.0047)Ala+(0.0043)Leu+(0.0829)Phe;0.797,0.825,0.818,0.811,0.823,0.8

45,0.807,0.821,(8.7551)+(-0.0764)His+(-0.0007)Ala+(0.0286)Tyr+(-0.0474)Met+(-0.1015)Trp;0.797,0.829,0.793,0.787,0.789,0.788,0.822,0.796,(3.9917)+(-0.0012)Gly+(0.0032)Gln+(-0.0101)Lys+(0.0546)Ile+(-0.1666)Trp;0.797,0.827,0.776,0.785,0.778,0.810,0.721,0.773,(3.4805)+(0.0296)Ser+(-0.0063)Tyr+(0.0021)Val+(-0.0051)Lys+(-0.1462)Trp;0.797,0.826,0.734,0.705,0.733,0.795,0.768,0.751,(4.0035)+(-0.1494)His+(0.0119)Thr+(-0.0087)Val+(0.0218)Orn+(0.0799)Phe;0.797,0.830,0.796,0.800,0.798,0.816,0.763,0.794,(4.4039)+(0.0419)Ser+(-0.0081)Gly+(-0.0162)Arg+(-0.0044)Tyr+(-0.1432)Trp;0.797,0.824,0.736,0.692,0.734,0.801,0.807,0.759,(4.1780)+(-0.1495)His+(-0.0035)Pro+(0.0173)Orn+(0.0327)Ile+(0.0476)Phe;0.797,0.819,0.775,0.756,0.762,0.830,0.813,0.790,(4.0351)+(0.0091)Gln+(-0.1513)His+(-0.0155)Val+(-0.0049)Lys+(0.0390)Leu;0.797,0.826,0.788,0.783,0.783,0.792,0.806,0.791,(5.8129)+(-0.0532)Asn+(-0.0172)Tyr+(0.0114)Orn+(0.0493)Ile+(-0.1492)Trp;0.797,0.822,0.822,0.823,0.838,0.824,0.786,0.818,(7.9413)+(-0.0410)Asn+(-0.0694)Cit+(0.0088)Arg+(0.0042)Val+(-0.1432)Trp;0.797,0.826,0.789,0.782,0.788,0.793,0.811,0.793,(5.5203)+(-0.0580)Asn+(0.0015)Gly+(-0.0004)Pro+(0.0514)Ile+(-0.1550)Trp;0.797,0.827,0.757,0.771,0.763,0.786,0.689,0.752,(-2.5071)+(0.0551)Ser+(-0.0860)Asn+(-0.0127)Arg+(-0.2970)Met+(0.1117)Phe;0.797,0.821,0.730,0.708,0.743,0.828,0.690,0.742,(4.2443)+(0.0377)Ser+(-0.1399)His+(0.0071)Thr+(-0.0174)Arg+(0.0047)Val;0.797,0.829,0.759,0.736,0.744,0.818,0.811,0.777,(4.4979)+(-0.1362)His+(-0.0065)Ala+(0.0054)Pro+(0.0228)Orn+(0.0693)Phe;0.797,0.823,0.818,0.827,0.830,0.836,0.759,0.813,(7.9070)+(-0.0489)Asn+(0.0034)Gly+(-0.0692)Cit+(0.0091)Arg+(-0.1335)Trp;0.797,0.826,0.810,0.821,0.801,0.814,0.795,0.808,(6.4119)+(-0.0046)Ala+(0.0128)Pro+(-0.1325)Met+(0.0088)Lys+(-0.1325)Trp;0.797,0.828,0.794,0.794,0.779,0.820,0.808,0.800,(5.5985)+(0.0136)Thr+(-0.0055)Ala+(-0.0250)Val+(0.0542)Leu+(-0.1549)Trp;0.797,0.827,0.794,0.785,0.797,0.797,0.811,0.79

8,(5.6994)+(-0.0031)Arg+(-0.1653)Met+(0.0024)Lys+(0.0643)Ile+(-0.1449)Trp;0.797,0.826,0.749,0.720,0.743,0.818,0.789,0.768,(5.6089)+(-0.1100)His+(-0.0161)Arg+(0.0269)Orn+(0.1112)Ile+(-0.0517)Leu;0.797,0.820,0.755,0.744,0.748,0.799,0.763,0.764,(4.5972)+(-0.0533)Asn+(0.0058)Gly+(-0.1291)His+(-0.0069)Val+(0.0993)Phe;0.797,0.819,0.737,0.711,0.728,0.822,0.765,0.756,(4.9294)+(0.0049)Gly+(-0.1049)His+(-0.0500)Cit+(0.1161)Ile+(-0.0464)Leu;0.797,0.826,0.812,0.815,0.812,0.827,0.792,0.811,(8.9103)+(-0.0058)Asn+(-0.0743)His+(0.0023)Arg+(-0.0081)Met+(-0.0943)Trp;0.797,0.815,0.768,0.768,0.700,0.843,0.858,0.792,(3.8867)+(-0.0090)Ala+(-0.0229)Arg+(-0.0426)Val+(0.2045)Ile+(-0.0359)Leu;0.797,0.826,0.804,0.809,0.829,0.826,0.726,0.798,(7.1483)+(0.0001)Gly+(0.0163)Thr+(-0.0681)Cit+(-0.0064)Arg+(-0.1564)Trp;0.797,0.825,0.816,0.809,0.823,0.840,0.804,0.819,(8.7214)+(-0.0001)Asn+(-0.0769)His+(0.0276)Tyr+(-0.0503)Met+(-0.1018)Trp;0.797,0.825,0.797,0.806,0.786,0.818,0.781,0.798,(5.4773)+(0.0066)Thr+(-0.0074)Ala+(0.0087)Pro+(0.0154)Orn+(-0.1459)Trp;0.797,0.828,0.794,0.785,0.789,0.844,0.790,0.802,(4.1297)+(0.0097)Gln+(-0.1387)His+(0.0039)Tyr+(-0.1155)Met+(0.0251)Orn;0.797,0.827,0.814,0.808,0.831,0.814,0.794,0.812,(7.0974)+(-0.0692)Cit+(0.0103)Arg+(-0.0899)Met+(0.0201)Leu+(-0.1491)Trp;0.797,0.823,0.744,0.719,0.737,0.817,0.776,0.762,(5.7721)+(-0.1160)His+(0.0132)Thr+(-0.0188)Arg+(0.1086)Ile+(-0.0459)Leu;0.797,0.821,0.749,0.724,0.717,0.822,0.826,0.772,(5.9457)+(-0.0874)His+(-0.0264)Cit+(-0.0090)Arg+(-0.0367)Val+(0.1355)Ile;0.797,0.821,0.746,0.743,0.731,0.786,0.757,0.754,(4.3182)+(0.0040)Gly+(-0.1359)His+(-0.0358)Tyr+(-0.0034)Val+(0.1063)Phe;0.797,0.831,0.781,0.779,0.786,0.782,0.775,0.781,(3.8731)+(0.0032)Gln+(0.0095)Thr+(-0.0264)Arg+(0.0501)Ile+(-0.1759)Trp;0.797,0.825,0.802,0.813,0.789,0.818,0.788,0.802,(5.7184)+(-0.0068)Ala+(0.0097)Pro+(-0.0027)Val+(0.0207)Orn+(-0.1370)Trp;0.797,0.821,0.807,0.810,0.790,0.851,0.800,0.813,(4.3702)+

(0.0002)Gly+(0.0107)Gln+(-0.1338)His+(-0.0005)Ala+(-0.0927)Met;0.797,0.821,0.741,0.733,0.729,0.782,0.754,0.750,(4.2571)+(0.0042)Gly+(-0.1405)His+(-0.0382)Tyr+(0.0017)Leu+(0.0997)Phe;0.797,0.827,0.822,0.811,0.847,0.819,0.803,0.820,(7.1957)+(-0.0642)Cit+(0.0233)Tyr+(-0.1102)Met+(0.0186)Leu+(-0.1521)Trp;0.797,0.826,0.732,0.699,0.759,0.835,0.687,0.745,(4.1921)+(0.0354)Ser+(-0.1287)His+(-0.0551)Cit+(-0.0107)Arg+(0.0430)Orn;0.797,0.829,0.796,0.800,0.798,0.815,0.766,0.795,(4.3436)+(0.0420)Ser+(-0.0080)Gly+(-0.0162)Arg+(-0.0009)Lys+(-0.1444)Trp;0.797,0.829,0.796,0.784,0.789,0.840,0.812,0.806,(3.5982)+(0.0114)Gln+(-0.1486)His+(-0.1433)Met+(0.0014)Lys+(0.0208)Leu;0.797,0.825,0.771,0.758,0.767,0.850,0.756,0.783,(4.9935)+(0.0476)Ser+(-0.0350)Asn+(-0.0043)Gly+(-0.1070)His+(-0.0704)Met;0.797,0.819,0.721,0.686,0.737,0.817,0.712,0.738,(3.5605)+(0.0419)Ser+(-0.1422)His+(-0.0241)Cit+(-0.0100)Arg+(0.0201)Leu;0.797,0.828,0.788,0.804,0.794,0.819,0.713,0.782,(3.4934)+(0.0293)Ser+(0.0017)Gln+(-0.0194)Arg+(-0.0005)Lys+(-0.1470)Trp;0.797,0.818,0.810,0.809,0.790,0.852,0.821,0.818,(4.6289)+(-0.0609)Asn+(0.0111)Gln+(-0.1360)His+(-0.0021)Ala+(0.0036)Lys;0.797,0.818,0.756,0.744,0.703,0.838,0.836,0.780,(4.8435)+(-0.1495)Asn+(0.0022)Gly+(-0.0587)Val+(0.0303)Orn+(0.1649)Ile;0.797,0.826,0.813,0.807,0.816,0.837,0.805,0.816,(8.6844)+(-0.0809)His+(-0.0011)Ala+(-0.0008)Arg+(0.0211)Tyr+(-0.1019)Trp;0.797,0.818,0.711,0.671,0.728,0.814,0.710,0.731,(3.3394)+(0.0388)Ser+(-0.1476)His+(0.0040)Thr+(-0.0344)Cit+(0.0199)Leu;0.797,0.824,0.803,0.800,0.823,0.805,0.766,0.799,(7.0195)+(-0.0737)Cit+(0.0007)Arg+(0.0078)Pro+(0.0020)Val+(-0.1539)Trp;0.797,0.819,0.757,0.740,0.748,0.840,0.762,0.773,(4.6055)+(0.0423)Ser+(-0.0049)Gly+(-0.1238)His+(-0.0016)Ala+(-0.0046)Tyr;0.797,0.826,0.751,0.760,0.752,0.782,0.703,0.749,(-2.7694)+(0.0538)Ser+(-0.0968)Asn+(-0.3079)Met+(0.0063)Orn+(0.1062)Phe;0.797,0.824,0.821,0.825,0.840,

0.837,0.760,0.815,(7.8085)+(-0.0484)Asn+(0.0039)Gly+(-0.0679)Cit+(0.0168)Tyr+(-0.1393)Trp;0.797,0.826,0.762,0.747,0.765,0.855,0.729,0.774,(4.3097)+(0.0414)Ser+(-0.1167)His+(-0.0004)Ala+(0.0211)Tyr+(-0.1320)Met;0.797,0.826,0.808,0.800,0.824,0.821,0.791,0.809,(9.0139)+(-0.0741)His+(-0.0371)Cit+(0.0094)Val+(-0.0112)Met+(-0.1109)Trp;0.797,0.823,0.767,0.755,0.763,0.848,0.752,0.779,(4.6934)+(0.0455)Ser+(-0.0045)Gly+(-0.1121)His+(0.0002)Ala+(-0.0958)Met;0.797,0.821,0.757,0.745,0.752,0.844,0.736,0.769,(4.8318)+(0.0405)Ser+(-0.0617)Asn+(-0.1159)His+(-0.0016)Ala+(0.0038)Lys;0.797,0.824,0.750,0.733,0.731,0.814,0.787,0.766,(4.0236)+(0.0047)Gly+(-0.1394)His+(-0.0062)Ala+(0.0063)Pro+(0.0826)Phe;0.797,0.823,0.792,0.773,0.798,0.854,0.786,0.803,(4.5491)+(-0.0680)Asn+(0.0107)Gln+(-0.1301)His+(-0.0670)Cit+(0.0408)Orn;0.797,0.823,0.818,0.830,0.818,0.830,0.773,0.813,(7.5415)+(-0.0738)Asn+(-0.0011)Gly+(0.0206)Thr+(-0.0033)Ala+(-0.1387)Trp;0.797,0.822,0.815,0.825,0.828,0.826,0.752,0.808,(7.7041)+(-0.0539)Asn+(0.0033)Gly+(-0.0636)Cit+(0.0073)Lys+(-0.1387)Trp;0.797,0.826,0.801,0.812,0.808,0.797,0.759,0.794,(6.8166)+(-0.0869)Asn+(0.0157)Thr+(0.0043)Pro+(0.0018)Lys+(-0.1451)Trp;0.797,0.822,0.777,0.755,0.784,0.798,0.808,0.786,(4.4191)+(0.0225)Asn+(-0.1276)His+(-0.2016)Met+(0.0052)Leu+(0.1128)Phe;0.797,0.825,0.742,0.725,0.715,0.829,0.778,0.762,(-1.7220)+(0.0455)Ser+(-0.0075)Ala+(-0.3097)Met+(-0.0012)Orn+(0.0803)Ile;0.797,0.821,0.735,0.727,0.646,0.849,0.859,0.770,(0.2508)+(0.0198)Ser+(-0.0118)Ala+(-0.0526)Val+(0.0078)Orn+(0.1693)Ile;0.797,0.820,0.724,0.705,0.724,0.818,0.705,0.738,(3.9945)+(0.0368)Ser+(-0.1302)His+(0.0082)Pro+(-0.0151)Tyr+(-0.0013)Lys;0.797,0.819,0.769,0.761,0.712,0.847,0.854,0.793,(4.2908)+(-0.1620)Asn+(0.0031)Gln+(-0.0583)Val+(0.0277)Orn+(0.1618)Ile;0.797,0.817,0.719,0.686,0.735,0.819,0.701,0.735,(3.6467)+(0.0388)Ser+(-0.1365)His+(-0.0338)Cit+(0.0056)Pro+(0.0039)Val;0.797,0.827,0.811,0.805,0.816,0.830,0.801,0.8

13,(8.7460)+(-0.0101)Asn+(-0.0799)His+(-0.0001)Arg+(0.0191)Tyr+(-0.1021)Trp;0.797,0.826,0.805,0.809,0.829,0.828,0.728,0.798,(7.2328)+(0.0168)Thr+(-0.0683)Cit+(-0.0057)Arg+(-0.0012)Lys+(-0.1555)Trp;0.797,0.826,0.751,0.731,0.767,0.838,0.707,0.761,(4.1613)+(0.0442)Ser+(-0.1201)His+(-0.0317)Cit+(0.0097)Val+(-0.1223)Met;0.797,0.827,0.780,0.786,0.773,0.793,0.771,0.781,(5.5156)+(0.0125)Thr+(-0.0159)Tyr+(-0.0247)Val+(0.0489)Leu+(-0.1555)Trp;0.797,0.824,0.817,0.827,0.809,0.820,0.801,0.815,(7.3335)+(-0.0238)Asn+(-0.0043)Ala+(0.0125)Pro+(-0.0834)Met+(-0.1225)Trp;0.797,0.820,0.796,0.787,0.782,0.846,0.814,0.807,(3.9526)+(0.0112)Gln+(-0.1537)His+(-0.0035)Ala+(-0.0161)Arg+(0.0163)Leu;0.797,0.827,0.786,0.800,0.793,0.816,0.711,0.780,(3.4135)+(0.0294)Ser+(0.0016)Gln+(-0.0199)Arg+(0.0009)Val+(-0.1489)Trp;0.797,0.825,0.836,0.837,0.849,0.842,0.803,0.833,(8.3042)+(-0.0364)Asn+(-0.0023)Ala+(-0.0610)Cit+(0.0193)Tyr+(-0.1360)Trp;0.797,0.824,0.750,0.726,0.737,0.813,0.796,0.768,(4.4699)+(-0.1491)His+(0.0159)Thr+(-0.0054)Ala+(0.0037)Leu+(0.0756)Phe;0.797,0.828,0.749,0.720,0.770,0.815,0.734,0.760,(6.2295)+(-0.1374)His+(0.0298)Thr+(-0.2013)Met+(0.0207)Orn+(0.0219)Leu;0.797,0.823,0.747,0.727,0.755,0.833,0.724,0.760,(4.7984)+(0.0418)Ser+(-0.0046)Gly+(-0.1310)His+(0.0092)Thr+(-0.0171)Arg;0.797,0.824,0.752,0.723,0.763,0.821,0.760,0.767,(5.7138)+(0.0072)Gly+(-0.1084)His+(-0.0438)Cit+(-0.1544)Met+(0.0692)Ile;0.797,0.823,0.759,0.747,0.737,0.812,0.799,0.773,(6.2824)+(-0.0964)His+(-0.0098)Arg+(-0.0260)Tyr+(0.1218)Ile+(-0.0497)Leu;0.797,0.822,0.831,0.837,0.837,0.841,0.795,0.828,(8.3179)+(-0.0391)Asn+(-0.0017)Ala+(-0.0634)Cit+(0.0098)Arg+(-0.1302)Trp;0.797,0.828,0.832,0.844,0.830,0.821,0.810,0.826,(5.2270)+(-0.0889)Asn+(-0.0010)Gly+(0.0058)Gln+(0.0180)Orn+(-0.1405)Trp;0.797,0.826,0.799,0.812,0.796,0.823,0.752,0.796,(6.4571)+(0.0153)Thr+(-0.0066)Ala+(-0.0183)Arg+(0.0101)Pro+(-0.1451)Trp;0.797,0.826,0.807,0.816,0.817,0.805,0.765,0.801,(6.859

1)+(-0.0842)Asn+(-0.0012)Gly+(0.0155)Thr+(0.0170)Orn+(-0.1436)Trp;0.797,0.821,0.815,0.820,0.800,0.854,0.808,0.820,(4.7542)+(-0.0462)Asn+(0.0125)Gln+(-0.1346)His+(-0.0014)Ala+(-0.0140)Arg;0.796,0.828,0.704,0.683,0.707,0.763,0.713,0.716,(-5.3308)+(0.0527)Ser+(0.0045)Pro+(-0.4618)Met+(0.0496)Ile+(0.0890)Phe;0.796,0.816,0.769,0.750,0.756,0.825,0.807,0.785,(3.8761)+(0.0001)Gly+(0.0086)Gln+(-0.1539)His+(-0.0155)Val+(0.0366)Leu;0.796,0.827,0.775,0.751,0.783,0.786,0.810,0.783,(4.1989)+(-0.1254)His+(0.0060)Pro+(-0.2165)Met+(0.0069)Lys+(0.1111)Phe;0.796,0.821,0.732,0.725,0.721,0.773,0.747,0.741,(4.1525)+(0.0040)Gly+(-0.1392)His+(0.0043)Pro+(-0.0425)Tyr+(0.0986)Phe;0.796,0.819,0.725,0.702,0.740,0.823,0.686,0.738,(4.1389)+(0.0384)Ser+(-0.1338)His+(0.0051)Thr+(-0.0187)Arg+(0.0069)Pro;0.796,0.818,0.758,0.747,0.709,0.840,0.834,0.782,(5.4106)+(-0.1215)Asn+(-0.0183)Arg+(-0.0602)Val+(0.0378)Orn+(0.1688)Ile;0.796,0.816,0.758,0.765,0.676,0.834,0.858,0.783,(3.3580)+(-0.0090)Ala+(-0.0283)Tyr+(-0.0388)Val+(0.1948)Ile+(-0.0356)Leu;0.796,0.827,0.828,0.838,0.839,0.830,0.775,0.820,(5.4279)+(0.0059)Gln+(-0.0715)Cit+(-0.0043)Arg+(0.0000)Lys+(-0.1532)Trp;0.796,0.825,0.800,0.786,0.798,0.847,0.809,0.810,(3.6800)+(0.0122)Gln+(-0.1413)His+(-0.0371)Cit+(-0.1388)Met+(0.0224)Leu;0.796,0.824,0.787,0.783,0.781,0.791,0.806,0.790,(5.7430)+(-0.0519)Asn+(0.0012)Gly+(-0.0134)Tyr+(0.0532)Ile+(-0.1504)Trp;0.796,0.824,0.798,0.795,0.785,0.819,0.817,0.804,(5.5741)+(-0.0052)Ala+(-0.0267)Val+(0.0258)Orn+(0.0532)Leu+(-0.1444)Trp;0.796,0.823,0.748,0.719,0.748,0.815,0.778,0.765,(5.2726)+(0.0256)Asn+(0.0053)Gly+(-0.1209)His+(-0.1845)Met+(0.0698)Ile;0.796,0.826,0.791,0.792,0.785,0.784,0.809,0.792,(5.5688)+(-0.0006)Gly+(0.0053)Pro+(-0.0245)Val+(0.0455)Leu+(-0.1518)Trp;0.796,0.825,0.799,0.816,0.805,0.805,0.741,0.792,(6.8977)+(-0.0822)Asn+(0.0161)Thr+(-0.0136)Tyr+(0.0190)Orn+(-0.1379)Trp;0.796,0.823,0.794,0.787,0.785,0.839,0.796,0.802,(3.8820)+(0.0111)Gln+(

-0.1390)His+(0.0074)Pro+(0.0031)Val+(-0.1368)Met;0.796,0.822,0.815,0.830,0.814,0.826,0.770,0.810,(7.2843)+(-0.0791)Asn+(0.0189)Thr+(-0.0034)Ala+(0.0029)Lys+(-0.1398)Trp;0.796,0.819,0.767,0.761,0.698,0.842,0.870,0.793,(3.9759)+(-0.0091)Ala+(-0.0192)Arg+(-0.0534)Val+(-0.0046)Lys+(0.1814)Ile;0.796,0.829,0.789,0.796,0.782,0.830,0.756,0.791,(3.5102)+(0.0282)Ser+(-0.0043)Ala+(-0.0002)Tyr+(0.0031)Val+(-0.1469)Trp;0.796,0.826,0.789,0.785,0.783,0.789,0.813,0.792,(5.9111)+(-0.0489)Asn+(0.0006)Pro+(-0.0147)Tyr+(0.0523)Ile+(-0.1504)Trp;0.796,0.821,0.730,0.705,0.726,0.798,0.757,0.747,(5.9652)+(-0.1277)His+(0.0181)Thr+(-0.0386)Cit+(-0.0368)Tyr+(0.0544)Ile;0.796,0.819,0.796,0.790,0.783,0.838,0.809,0.805,(4.3872)+(-0.0621)Asn+(0.0111)Gln+(-0.1398)His+(0.0045)Pro+(-0.0001)Val;0.796,0.826,0.781,0.765,0.783,0.797,0.806,0.788,(4.5560)+(-0.1122)His+(0.0078)Pro+(-0.0069)Val+(-0.1974)Met+(0.1228)Phe;0.796,0.826,0.814,0.808,0.822,0.816,0.811,0.814,(7.4770)+(-0.0531)Cit+(-0.0195)Val+(-0.0873)Met+(0.0516)Leu+(-0.1399)Trp;0.796,0.820,0.744,0.719,0.751,0.829,0.734,0.759,(4.2788)+(0.0454)Ser+(-0.0041)Gly+(-0.1344)His+(-0.0137)Arg+(0.0048)Val;0.796,0.826,0.796,0.790,0.816,0.795,0.774,0.794,(6.8629)+(-0.0748)Cit+(0.0071)Pro+(-0.0063)Tyr+(0.0129)Leu+(-0.1596)Trp;0.796,0.824,0.799,0.808,0.802,0.810,0.759,0.795,(6.2942)+(0.0087)Pro+(-0.0035)Val+(-0.1388)Met+(0.0246)Orn+(-0.1257)Trp;0.796,0.820,0.772,0.757,0.770,0.825,0.781,0.783,(4.0361)+(0.0084)Gln+(-0.1523)His+(0.0010)Val+(0.0224)Orn+(-0.0038)Lys;0.796,0.820,0.807,0.807,0.797,0.846,0.800,0.812,(4.4439)+(-0.0467)Asn+(0.0127)Gln+(-0.1421)His+(-0.0150)Arg+(0.0022)Val;0.796,0.826,0.784,0.778,0.782,0.772,0.815,0.787,(3.6554)+(-0.0011)Gly+(0.0023)Gln+(-0.0025)Pro+(0.0505)Ile+(-0.1753)Trp;0.796,0.824,0.756,0.752,0.736,0.802,0.774,0.766,(4.4002)+(0.0042)Gly+(-0.1355)His+(-0.0030)Ala+(-0.0315)Tyr+(0.1032)Phe;0.796,0.820,0.758,0.753,0.672,0.834,0.898,0.789,(1.4783)+(-0.0014)Gly+(-0.0115)Ala

+(-0.0552)Val+(0.1688)Ile+(0.0369)Phe;0.796,0.830,0.801,0.788,0.807,0.804,0.821,0.805,(5.6418)+(-0.0027)Arg+(0.0157)Tyr+(-0.1849)Met+(0.0648)Ile+(-0.1465)Trp;0.796,0.825,0.824,0.822,0.839,0.829,0.795,0.822,(7.3740)+(-0.0040)Ala+(-0.0709)Cit+(0.0135)Tyr+(0.0065)Val+(-0.1505)Trp;0.796,0.821,0.755,0.741,0.705,0.837,0.836,0.780,(5.0636)+(-0.1687)Asn+(0.0129)Thr+(-0.0605)Val+(0.0267)Orn+(0.1675)Ile;0.796,0.823,0.770,0.763,0.770,0.835,0.745,0.778,(6.9889)+(-0.1100)His+(0.0263)Thr+(-0.0037)Ala+(0.0107)Pro+(-0.1597)Met;0.796,0.829,0.829,0.841,0.827,0.822,0.803,0.823,(5.1060)+(-0.0925)Asn+(0.0057)Gln+(0.0170)Orn+(0.0015)Lys+(-0.1415)Trp;0.796,0.828,0.788,0.792,0.779,0.787,0.798,0.789,(5.7131)+(0.0062)Pro+(-0.0124)Tyr+(-0.0237)Val+(0.0454)Leu+(-0.1476)Trp;0.796,0.826,0.788,0.792,0.781,0.797,0.786,0.789,(5.4200)+(-0.0134)Tyr+(-0.0263)Val+(0.0243)Orn+(0.0480)Leu+(-0.1466)Trp;0.796,0.825,0.804,0.815,0.814,0.805,0.754,0.797,(6.6965)+(-0.0859)Asn+(0.0147)Thr+(0.0167)Orn+(0.0002)Lys+(-0.1428)Trp;

0.796,0.819,0.801,0.798,0.791,0.842,0.798,0.807,(4.4276)+(-0.0505)Asn+(0.0124)Gln+(-0.1396)His+(-0.0154)Arg+(0.0048)Pro;0.796,0.817,0.791,0.784,0.773,0.842,0.808,0.802,(4.0758)+(0.0002)Gly+(0.0095)Gln+(-0.1507)His+(-0.0033)Ala+(0.0048)Val;0.796,0.826,0.753,0.733,0.740,0.810,0.791,0.769,(4.4780)+(-0.1444)His+(0.0162)Thr+(-0.0044)Ala+(-0.0046)Val+(0.0873)Phe;0.796,0.823,0.786,0.769,0.788,0.809,0.814,0.795,(4.6134)+(0.0178)Asn+(-0.1227)His+(-0.0018)Ala+(-0.1803)Met+(0.1179)Phe;0.796,0.824,0.777,0.755,0.785,0.792,0.808,0.785,(4.5012)+(-0.1200)His+(0.0061)Pro+(-0.1995)Met+(0.0013)Leu+(0.1110)Phe;0.796,0.826,0.763,0.755,0.762,0.844,0.727,0.772,(4.6264)+(0.0417)Ser+(-0.0418)Asn+(-0.1114)His+(-0.0965)Met+(0.0074)Lys;0.796,0.829,0.775,0.761,0.780,0.780,0.801,0.781,(4.9053)+(-0.0013)Gly+(0.0094)Thr+(-0.0107)Lys+(0.0543)Ile+(-0.1667)Trp;0.796,0.828,0.803,0.798,0.810,0.815,0.793,0.804,(8.3062)+(-

0.0888)His+(-0.0075)Arg+(0.0117)Tyr+(0.0115)Lys+(-0.1086)Trp;0.796,0.814,0.758,0.737,0.753,0.809,0.784,0.771,(3.5905)+(0.0083)Gln+(-0.1657)His+(0.0068)Thr+(0.0008)Pro+(0.0124)Leu;0.796,0.828,0.807,0.799,0.819,0.824,0.793,0.809,(8.4103)+(-0.0790)His+(-0.0319)Cit+(0.0139)Tyr+(0.0092)Lys+(-0.1125)Trp;0.796,0.820,0.750,0.715,0.745,0.793,0.821,0.768,(4.7430)+(-0.0255)Asn+(-0.1388)His+(-0.0024)Pro+(0.0345)Ile+(0.0548)Phe;0.796,0.820,0.734,0.725,0.692,0.820,0.781,0.754,(3.2302)+(-0.0929)Cit+(-0.0509)Tyr+(-0.0487)Val+(0.0446)Orn+(0.1465)Ile;0.796,0.820,0.824,0.833,0.836,0.822,0.780,0.817,(7.9837)+(-0.0358)Asn+(-0.0542)Cit+(-0.0546)Met+(0.0097)Lys+(-0.1356)Trp;0.796,0.830,0.770,0.773,0.780,0.803,0.717,0.768,(3.2456)+(0.0338)Ser+(-0.0164)Arg+(-0.0048)Lys+(0.0147)Leu+(-0.1542)Trp;0.796,0.829,0.768,0.774,0.778,0.801,0.710,0.766,(3.3271)+(0.0323)Ser+(-0.0185)Arg+(-0.0065)Tyr+(0.0128)Leu+(-0.1546)Trp;0.796,0.829,0.775,0.781,0.785,0.802,0.719,0.772,(3.0020)+(0.0309)Ser+(0.0011)Gln+(-0.0207)Arg+(0.0115)Leu+(-0.1582)Trp;0.796,0.819,0.734,0.710,0.745,0.826,0.705,0.746,(4.1368)+(0.0403)Ser+(-0.1366)His+(-0.0141)Arg+(0.0057)Val+(-0.0006)Lys;0.796,0.825,0.777,0.754,0.785,0.792,0.810,0.785,(4.4267)+(-0.1202)His+(0.0021)Arg+(0.0062)Pro+(-0.2016)Met+(0.1126)Phe;0.796,0.824,0.740,0.723,0.714,0.828,0.776,0.760,(-1.6188)+(0.0459)Ser+(-0.0004)Gln+(-0.0075)Ala+(-0.3079)Met+(0.0801)Ile;0.796,0.819,0.769,0.745,0.746,0.831,0.838,0.790,(6.3866)+(-0.0051)Asn+(-0.1166)His+(-0.0057)Ala+(-0.0162)Tyr+(0.0605)Ile;0.796,0.826,0.792,0.784,0.785,0.844,0.787,0.800,(4.0726)+(0.0095)Gln+(-0.1393)His+(-0.1179)Met+(0.0244)Orn+(0.0029)Lys;0.796,0.823,0.812,0.815,0.798,0.852,0.805,0.817,(4.5236)+(-0.0374)Asn+(0.0007)Gly+(0.0115)Gln+(-0.1308)His+(-0.0710)Met;0.796,0.817,0.720,0.720,0.665,0.821,0.761,0.742,(1.4157)+(0.0265)Ser+(-0.0335)Arg+(-0.0312)Tyr+(-0.0522)Val+(0.1619)Ile;0.796,0.815,0.759,0.738,0.755,0.810,0.785,0.772,(3.6123)+(0.0000)Gly+(0.0

083)Gln+(-0.1659)His+(0.0071)Thr+(0.0129)Leu;0.796,0.827,0.805,0.803,0.814,0.820,0.781,0.805,(8.5643)+(-0.0773)His+(-0.0284)Cit+(-0.0018)Arg+(0.0112)Lys+(-0.1072)Trp;0.796,0.827,0.790,0.781,0.789,0.795,0.812,0.794,(5.5798)+(-0.0542)Asn+(0.0014)Gly+(-0.0022)Lys+(0.0524)Ile+(-0.1536)Trp;0.796,0.818,0.771,0.752,0.766,0.821,0.799,0.784,(3.7269)+(0.0096)Gln+(-0.1590)His+(0.0017)Pro+(-0.0052)Lys+(0.0143)Leu;0.796,0.817,0.800,0.797,0.786,0.843,0.803,0.807,(4.4169)+(-0.0646)Asn+(0.0008)Gly+(0.0110)Gln+(-0.1396)His+(0.0028)Lys;0.796,0.827,0.839,0.836,0.855,0.847,0.806,0.836,(7.7912)+(-0.0020)Ala+(-0.0584)Cit+(0.0289)Tyr+(-0.0776)Met+(-0.1364)Trp;0.796,0.816,0.735,0.706,0.745,0.823,0.730,0.751,(3.9941)+(0.0427)Ser+(-0.0032)Gly+(-0.1350)His+(-0.0285)Cit+(0.0055)Val;0.796,0.825,0.781,0.752,0.765,0.836,0.847,0.800,(6.3761)+(-0.1074)His+(-0.0050)Ala+(0.0039)Arg+(-0.1273)Met+(0.0694)Ile;0.796,0.820,0.791,0.794,0.778,0.847,0.770,0.797,(4.6491)+(0.0101)Gln+(-0.1478)His+(0.0142)Thr+(-0.0024)Ala+(-0.0228)Arg;0.796,0.828,0.845,0.864,0.838,0.842,0.807,0.838,(5.3331)+(-0.0537)Asn+(0.0080)Gln+(-0.0061)Arg+(-0.0861)Met+(-0.1305)Trp;0.796,0.826,0.800,0.812,0.814,0.805,0.736,0.792,(7.2091)+(-0.0734)Asn+(0.0196)Thr+(-0.0137)Arg+(0.0048)Pro+(-0.1437)Trp;0.796,0.825,0.796,0.795,0.817,0.811,0.743,0.791,(6.7905)+(0.0025)Gly+(-0.0757)Cit+(0.0001)Arg+(0.0086)Pro+(-0.1511)Trp;0.796,0.821,0.821,0.822,0.833,0.827,0.791,0.818,(7.3391)+(-0.0037)Ala+(-0.0732)Cit+(0.0064)Arg+(0.0070)Val+(-0.1476)Trp;0.796,0.823,0.809,0.822,0.790,0.825,0.800,0.809,(4.6791)+(0.0027)Gln+(-0.0074)Ala+(0.0089)Pro+(0.0152)Orn+(-0.1458)Trp;0.796,0.820,0.815,0.826,0.805,0.822,0.802,0.814,(7.0847)+(-0.0489)Asn+(0.0010)Gly+(-0.0054)Ala+(0.0110)Pro+(-0.1277)Trp;0.796,0.825,0.796,0.791,0.793,0.849,0.776,0.802,(4.2863)+(0.0110)Gln+(-0.1380)His+(-0.0161)Arg+(-0.0923)Met+(0.0282)Orn;0.796,0.823,0.726,0.703,0.724,0.783,0.752,0.741,(3.7757)+(0.0032)Gly+(-0.1532)His+(0.012

9)Thr+(-0.0063)Val+(0.0872)Phe;0.796,0.818,0.759,0.746,0.706,0.839,0.845,0.784,(4.9942)+(-0.1396)Asn+(-0.0554)Val+(0.0306)Orn+(0.1707)Ile+(-0.0103)Leu;0.796,0.827,0.764,0.749,0.769,0.852,0.730,0.775,(4.5857)+(0.0433)Ser+(-0.0323)Asn+(-0.1120)His+(0.0180)Tyr+(-0.1070)Met;0.796,0.826,0.749,0.723,0.768,0.809,0.737,0.759,(6.3292)+(-0.1319)His+(0.0323)Thr+(0.0050)Pro+(-0.2180)Met+(0.0227)Leu;0.796,0.821,0.786,0.789,0.723,0.852,0.859,0.806,(4.1664)+(-0.1367)Asn+(0.0056)Gln+(-0.0172)Arg+(-0.0562)Val+(0.1651)Ile;0.796,0.827,0.820,0.839,0.817,0.816,0.781,0.813,(4.8510)+(0.0063)Gln+(-0.0092)Arg+(0.0091)Pro+(-0.1540)Met+(-0.1343)Trp;0.796,0.822,0.815,0.830,0.815,0.830,0.764,0.810,(7.4305)+(-0.0749)Asn+(0.0201)Thr+(-0.0032)Ala+(-0.0016)Tyr+(-0.1375)Trp;0.796,0.822,0.810,0.815,0.830,0.822,0.744,0.803,(7.2755)+(0.0031)Gly+(-0.0672)Cit+(0.0060)Val+(-0.0622)Met+(-0.1417)Trp;0.796,0.820,0.802,0.800,0.788,0.842,0.808,0.810,(4.4958)+(-0.0547)Asn+(0.0113)Gln+(-0.1397)His+(-0.0085)Tyr+(0.0026)Val;0.796,0.819,0.785,0.773,0.768,0.837,0.818,0.799,(3.9859)+(0.0094)Gln+(-0.1524)His+(-0.0036)Ala+(-0.0104)Tyr+(0.0178)Leu;0.796,0.824,0.813,0.818,0.803,0.819,0.819,0.815,(6.8064)+(-0.0458)Asn+(-0.0062)Ala+(0.0099)Pro+(0.0108)Leu+(-0.1367)Trp;0.796,0.825,0.749,0.737,0.744,0.787,0.763,0.758,(4.9223)+(-0.1339)His+(-0.0099)Arg+(-0.0463)Tyr+(0.0315)Orn+(0.0919)Phe;0.796,0.830,0.765,0.740,0.757,0.819,0.808,0.781,(4.7020)+(-0.1354)His+(-0.0048)Ala+(0.0268)Orn+(-0.0033)Lys+(0.0744)Phe;0.796,0.822,0.764,0.741,0.738,0.827,0.836,0.786,(6.2025)+(-0.1157)His+(-0.0068)Ala+(0.0050)Pro+(-0.0192)Tyr+(0.0568)Ile;0.796,0.822,0.737,0.711,0.750,0.784,0.747,0.748,(4.9301)+(-0.1521)His+(0.0216)Thr+(-0.0160)Arg+(-0.0059)Lys+(0.0809)Phe;0.796,0.827,0.788,0.804,0.793,0.817,0.712,0.782,(3.5202)+(0.0291)Ser+(0.0017)Gln+(-0.0194)Arg+(-0.0022)Tyr+(-0.1464)Trp;0.796,0.829,0.762,0.764,0.767,0.786,0.727,0.761,(2.9601)+(0.0286)Ser+(-0.0003)Gln+(-0.0142)Tyr+(0.012

1)Leu+(-0.1572)Trp;0.796,0.823,0.700,0.675,0.644,0.809,0.806,0.733,(-0.9135)+(0.0306)Ser+(-0.0526)Val+(-0.0275)Lys+(0.1555)Ile+(0.0429)Phe;0.796,0.822,0.742,0.721,0.739,0.798,0.766,0.756,(-1.1332)+(0.0583)Ser+(-0.0586)Asn+(-0.0054)Gly+(-0.2983)Met+(0.0614)Ile;0.796,0.826,0.815,0.814,0.821,0.836,0.788,0.815,(8.9968)+(-0.0658)His+(-0.0004)Ala+(-0.0360)Cit+(0.0066)Arg+(-0.0999)Trp;0.796,0.826,0.804,0.810,0.827,0.826,0.724,0.797,(7.2116)+(0.0168)Thr+(-0.0674)Cit+(-0.0062)Arg+(-0.0033)Tyr+(-0.1551)Trp;0.796,0.826,0.793,0.783,0.792,0.795,0.820,0.798,(5.7837)+(-0.0502)Asn+(-0.0004)Pro+(-0.0023)Lys+(0.0524)Ile+(-0.1539)Trp;0.796,0.820,0.780,0.787,0.710,0.841,0.860,0.800,(4.4999)+(-0.1401)Asn+(0.0046)Gln+(-0.0247)Tyr+(-0.0532)Val+(0.1620)Ile;0.796,0.819,0.767,0.750,0.764,0.822,0.779,0.779,(3.9813)+(0.0083)Gln+(-0.1516)His+(0.0027)Pro+(0.0215)Orn+(-0.0039)Lys;0.796,0.820,0.811,0.813,0.791,0.854,0.819,0.819,(4.7638)+(-0.0554)Asn+(0.0112)Gln+(-0.1333)His+(-0.0017)Ala+(-0.0019)Tyr;0.796,0.817,0.777,0.769,0.767,0.826,0.782,0.786,(4.3945)+(-0.0009)Gly+(0.0086)Gln+(-0.1516)His+(0.0090)Thr+(-0.0035)Lys;0.796,0.824,0.728,0.682,0.735,0.804,0.782,0.751,(5.3826)+(-0.1426)His+(0.0130)Thr+(0.0191)Orn+(-0.0091)Lys+(0.0445)Ile;0.796,0.823,0.745,0.722,0.765,0.812,0.716,0.754,(6.1709)+(0.0027)Gly+(-0.1365)His+(0.0319)Thr+(-0.2095)Met+(0.0267)Leu;0.796,0.820,0.741,0.734,0.738,0.792,0.730,0.748,(4.3105)+(0.0056)Gly+(-0.1332)His+(-0.0406)Cit+(-0.0370)Tyr+(0.1083)Phe;0.796,0.826,0.803,0.797,0.813,0.806,0.800,0.804,(6.8441)+(-0.0667)Cit+(0.0026)Arg+(-0.0164)Val+(0.0423)Leu+(-0.1562)Trp;0.796,0.826,0.811,0.813,0.812,0.827,0.791,0.811,(8.8360)+(-0.0752)His+(0.0001)Ala+(0.0020)Arg+(-0.0124)Met+(-0.0944)Trp;0.796,0.824,0.847,0.865,0.834,0.845,0.829,0.843,(5.5074)+(-0.0757)Asn+(-0.0007)Gly+(0.0069)Gln+(-0.0027)Ala+(-0.1341)Trp;0.796,0.819,0.785,0.776,0.764,0.842,0.811,0.798,(4.0807)+(0.0090)Gln+(-0.1467)His+(-0.0051)Ala+(0.0071)Pro+(0.

0031)Val;0.796,0.821,0.742,0.722,0.749,0.792,0.743,0.751,(4.8874)+(-0.1468)His+(0.0215)Thr+(-0.0205)Arg+(-0.0082)Val+(0.0926)Phe;0.796,0.825,0.721,0.699,0.746,0.802,0.668,0.729,(-0.8615)+(0.0436)Ser+(0.0125)Thr+(-0.0798)Cit+(-0.3750)Met+(0.0711)Ile;0.796,0.824,0.780,0.791,0.789,0.815,0.705,0.775,(3.7765)+(0.0316)Ser+(-0.0177)Arg+(0.0014)Val+(-0.0007)Lys+(-0.1466)Trp;0.796,0.827,0.776,0.787,0.776,0.805,0.724,0.773,(3.3360)+(0.0270)Ser+(0.0003)Gln+(-0.0096)Tyr+(0.0008)Val+(-0.1494)Trp;0.795,0.816,0.722,0.683,0.722,0.798,0.768,0.743,(4.8645)+(0.0029)Gly+(-0.1475)His+(0.0107)Thr+(-0.0030)Pro+(0.0496)Ile;0.795,0.822,0.745,0.757,0.665,0.837,0.815,0.769,(0.6769)+(0.0212)Ser+(-0.0106)Ala+(-0.0385)Tyr+(0.1727)Ile+(-0.0820)Leu;0.795,0.822,0.825,0.825,0.845,0.822,0.787,0.820,(8.0113)+(-0.0378)Asn+(-0.0653)Cit+(0.0108)Tyr+(0.0035)Val+(-0.1450)Trp;0.795,0.825,0.800,0.792,0.793,0.843,0.806,0.808,(3.7105)+(0.0126)Gln+(-0.1472)His+(-0.0114)Arg+(-0.1259)Met+(0.0203)Leu;0.795,0.825,0.818,0.809,0.828,0.842,0.802,0.820,(9.0140)+(-0.0696)His+(-0.0015)Ala+(-0.0352)Cit+(0.0250)Tyr+(-0.1074)Trp;0.795,0.819,0.742,0.730,0.735,0.842,0.720,0.757,(4.4646)+(0.0334)Ser+(-0.1296)His+(0.0056)Thr+(-0.0020)Ala+(-0.0039)Tyr;0.795,0.819,0.745,0.728,0.745,0.795,0.758,0.756,(4.3288)+(-0.0460)Asn+(0.0061)Gly+(-0.1386)His+(-0.0009)Leu+(0.0870)Phe;0.795,0.821,0.811,0.824,0.803,0.821,0.785,0.808,(6.8032)+(0.0008)Gly+(-0.0045)Ala+(0.0129)Pro+(-0.1065)Met+(-0.1242)Trp;0.795,0.818,0.770,0.739,0.751,0.837,0.842,0.792,(6.2177)+(-0.0051)Asn+(-0.1194)His+(-0.0064)Ala+(-0.0029)Arg+(0.0581)Ile;0.795,0.824,0.750,0.720,0.754,0.810,0.779,0.766

,(5.5055)+(0.0057)Gly+(-0.1165)His+(0.0022)Pro+(-0.1659)Met+(0.0649)Ile;0.795,0.817,0.733,0.705,0.748,0.829,0.706,0.747,(4.1064)+(0.0402)Ser+(-0.1330)His+(-0.0341)Cit+(0.0076)Val+(-0.0049)Lys;0.795,0.827,0.816,0.816,0.822,0.835,0.792,0.816,(9.1296)+(-0.0118)Asn+(-0.0635)His+(

-0.0366)Cit+(0.0078)Arg+(-0.1000)Trp;0.795,0.825,0.805,0.798,0.814,0.809,0.799,0.805,(7.0514)+(-0.0646)Cit+(-0.0166)Val+(-0.0015)Lys+(0.0435)Leu+(-0.1537)Trp;0.795,0.825,0.799,0.797,0.788,0.843,0.794,0.806,(3.9287)+(0.0008)Gly+(0.0110)Gln+(-0.1434)His+(0.0056)Val+(-0.1114)Met;0.795,0.822,0.747,0.723,0.759,0.783,0.760,0.756,(5.2947)+(-0.0523)Asn+(-0.1450)His+(0.0239)Thr+(-0.0149)Arg+(0.0791)Phe;0.795,0.820,0.821,0.832,0.832,0.837,0.758,0.815,(7.6925)+(0.0026)Gly+(-0.0013)Ala+(-0.0598)Cit+(-0.0421)Met+(-0.1296)Trp;0.795,0.817,0.740,0.717,0.745,0.829,0.729,0.755,(4.4715)+(0.0399)Ser+(-0.0039)Gly+(-0.1297)His+(0.0060)Thr+(-0.0274)Cit;0.795,0.814,0.769,0.757,0.762,0.819,0.781,0.780,(4.0000)+(-0.0005)Gly+(0.0085)Gln+(-0.1578)His+(0.0070)Thr+(0.0021)Val;0.795,0.823,0.816,0.826,0.805,0.819,0.812,0.815,(6.9163)+(-0.0582)Asn+(-0.0057)Ala+(0.0107)Pro+(0.0067)Lys+(-0.1342)Trp;0.795,0.825,0.748,0.768,0.739,0.774,0.696,0.744,(-2.3118)+(0.0532)Ser+(-0.0991)Asn+(-0.0243)Tyr+(-0.2655)Met+(0.1158)Phe;0.795,0.825,0.828,0.823,0.852,0.828,0.791,0.823,(7.4954)+(-0.0629)Cit+(0.0236)Tyr+(0.0047)Val+(-0.0924)Met+(-0.1456)Trp;0.795,0.828,0.813,0.825,0.813,0.800,0.795,0.808,(4.4032)+(0.0056)Gln+(0.0075)Pro+(-0.1780)Met+(0.0111)Leu+(-0.1421)Trp;0.795,0.822,0.761,0.751,0.761,0.844,0.724,0.770,(5.1666)+(0.0418)Ser+(-0.0477)Asn+(-0.1125)His+(-0.0010)Ala+(-0.0093)Arg;0.795,0.827,0.746,0.719,0.720,0.864,0.785,0.772,(0.6808)+(0.0375)Ser+(-0.0128)Ala+(-0.0975)Cit+(-0.0237)Lys+(0.0833)Ile;0.795,0.825,0.796,0.796,0.816,0.811,0.741,0.791,(6.8411)+(0.0024)Gly+(-0.0751)Cit+(0.0088)Pro+(-0.0022)Tyr+(-0.1500)Trp;0.795,0.823,0.809,0.808,0.795,0.854,0.807,0.816,(4.2439)+(0.0110)Gln+(-0.1366)His+(-0.0009)Ala+(0.0126)Tyr+(-0.1102)Met;0.795,0.821,0.782,0.774,0.768,0.838,0.789,0.792,(4.3999)+(0.0080)Gln+(-0.1422)His+(-0.0028)Ala+(-0.0118)Tyr+(0.0269)Orn;0.795,0.818,0.764,0.747,0.761,0.819,0.777,0.776,(3.9815)+(-0.0006)Gly+(0.0077)Gln+(-0.1563)His

+(0.0049)Thr+(0.0193)Orn;0.795,0.821,0.774,0.757,0.777,0.828,0.777,0.785,(3.7304)+(0.0104)Gln+(-0.1588)His+(-0.0202)Arg+(0.0204)Orn+(0.0092)Leu;0.795,0.825,0.803,0.814,0.797,0.816,0.778,0.801,(6.2120)+(-0.0067)Ala+(-0.0151)Arg+(0.0098)Pro+(0.0244)Orn+(-0.1366)Trp;0.795,0.825,0.782,0.761,0.788,0.797,0.813,0.790,(4.4305)+(-0.1280)His+(-0.1979)Met+(0.0071)Lys+(0.0015)Leu+(0.1127)Phe;0.795,0.814,0.724,0.695,0.739,0.822,0.698,0.738,(3.9080)+(0.0372)Ser+(-0.1385)His+(0.0041)Thr+(-0.0352)Cit+(0.0057)Val;0.795,0.826,0.749,0.730,0.761,0.838,0.709,0.760,(4.1585)+(0.0444)Ser+(-0.1249)His+(-0.0078)Arg+(0.0087)Val+(-0.1116)Met;0.795,0.822,0.806,0.822,0.812,0.805,0.751,0.798,(7.4406)+(-0.0771)Asn+(-0.0014)Gly+(0.0200)Thr+(-0.0097)Tyr+(-0.1402)Trp;0.795,0.820,0.721,0.695,0.658,0.821,0.848,0.756,(0.9783)+(0.0410)Ser+(-0.0098)Gly+(-0.0513)Val+(-0.0230)Lys+(0.1617)Ile;0.795,0.820,0.824,0.827,0.837,0.829,0.782,0.819,(7.7866)+(-0.0024)Ala+(-0.0635)Cit+(0.0068)Val+(-0.0398)Met+(-0.1396)Trp;0.795,0.820,0.758,0.746,0.746,0.815,0.770,0.769,(4.3658)+(0.0055)Gly+(-0.1383)His+(-0.0042)Ala+(-0.0104)Arg+(0.0918)Phe;0.795,0.824,0.787,0.790,0.782,0.781,0.795,0.787,(4.0364)+(0.0041)Gln+(-0.0188)Arg+(-0.0178)Tyr+(0.0537)Ile+(-0.1635)Trp;0.795,0.819,0.763,0.750,0.710,0.840,0.850,0.788,(5.0735)+(-0.1421)Asn+(-0.0029)Pro+(-0.0588)Val+(0.0331)Orn+(0.1676)Ile;0.795,0.819,0.716,0.686,0.721,0.776,0.744,0.732,(3.6134)+(0.0037)Gly+(-0.1594)His+(0.0118)Thr+(-0.0003)Leu+(0.0764)Phe;0.795,0.828,0.787,0.786,0.742,0.858,0.833,0.805,(3.2790)+(0.0122)Thr+(-0.0079)Ala+(-0.2367)Met+(0.1755)Ile+(-0.0775)Leu;0.795,0.825,0.755,0.736,0.752,0.812,0.774,0.768,(4.9771)+(-0.1457)His+(0.0213)Thr+(-0.0050)Ala+(-0.0180)Arg+(0.0847)Phe;0.795,0.822,0.764,0.750,0.764,0.839,0.747,0.775,(5.1520)+(0.0475)Ser+(-0.0472)Asn+(-0.0042)Gly+(-0.1136)His+(-0.0094)Arg;0.795,0.818,0.769,0.765,0.709,0.841,0.850,0.791,(4.3277)+(-0.1805)Asn+(0.0036)Gln+(0.0147)Thr+(-0.0583)Val+(

0.1669)Ile;0.795,0.817,0.771,0.762,0.721,0.838,0.850,0.793,(5.6306)+(-0.1042)Asn+(-0.0495)Cit+(-0.0471)Val+(0.1776)Ile+(-0.0197)Leu;0.795,0.826,0.806,0.813,0.795,0.806,0.809,0.806,(4.7484)+(0.0031)Gln+(-0.0226)Val+(-0.0042)Lys+(0.0463)Leu+(-0.1535)Trp;0.795,0.824,0.815,0.817,0.821,0.834,0.780,0.813,(9.3233)+(-0.0054)Asn+(-0.0638)His+(-0.0001)Ala+(-0.0312)Cit+(-0.0980)Trp;0.795,0.821,0.758,0.756,0.671,0.835,0.887,0.787,(1.0385)+(-0.0114)Ala+(-0.0423)Val+(0.1937)Ile+(-0.0400)Leu+(0.0448)Phe;0.795,0.820,0.735,0.711,0.732,0.783,0.772,0.750,(4.2744)+(-0.1500)His+(0.0146)Thr+(0.0010)Pro+(-0.0072)Val+(0.0835)Phe;0.795,0.818,0.770,0.748,0.756,0.806,0.831,0.785,(5.6284)+(-0.0519)Asn+(-0.1196)His+(-0.0247)Val+(0.0364)Leu+(0.0823)Phe;0.795,0.823,0.719,0.671,0.723,0.784,0.790,0.742,(3.7835)+(-0.1587)His+(0.0109)Thr+(0.0107)Orn+(0.0280)Ile+(0.0481)Phe;0.795,0.823,0.746,0.709,0.740,0.798,0.819,0.767,(4.6535)+(-0.1402)His+(-0.0024)Pro+(-0.0068)Lys+(0.0393)Ile+(0.0563)Phe;0.795,0.819,0.726,0.681,0.730,0.802,0.782,0.749,(5.0662)+(-0.1495)His+(0.0109)Thr+(-0.0039)Pro+(0.0171)Orn+(0.0444)Ile;0.795,0.823,0.770,0.767,0.764,0.768,0.791,0.773,(4.7085)+(-0.0005)Pro+(-0.0232)Tyr+(0.0062)Orn+(0.0522)Ile+(-0.1608)Trp;0.795,0.825,0.792,0.784,0.798,0.790,0.800,0.793,(5.8157)+(-0.0481)Asn+(-0.0111)Arg+(0.0124)Orn+(0.0475)Ile+(-0.1540)Trp;0.795,0.818,0.759,0.728,0.752,0.828,0.809,0.779,(6.1676)+(-0.1233)His+(-0.0038)Ala+(-0.0227)Val+(0.0366)Orn+(0.0460)Leu;0.795,0.817,0.760,0.737,0.759,0.818,0.784,0.775,(3.5206)+(0.0004)Gly+(0.0082)Gln+(-0.1625)His+(0.0163)Orn+(0.0103)Leu;0.795,0.817,0.769,0.753,0.766,0.823,0.780,0.780,(3.9195)+(-0.0002)Gly+(0.0081)Gln+(-0.1541)His+(0.0001)Val+(0.0211)Orn;0.795,0.827,0.790,0.786,0.785,0.789,0.816,0.794,(3.8773)+(0.0031)Gln+(-0.0024)Pro+(-0.0100)Lys+(0.0580)Ile+(-0.1659)Trp;0.795,0.824,0.816,0.808,0.829,0.838,0.796,0.818,(9.0860)+(-0.0108)Asn+(-0.0685)His+(-0.0344)Cit+(0.0225)Tyr+(-0.1079)Trp;0.79

5,0.824,0.816,0.811,0.835,0.811,0.794,0.813,(7.7109)+(-0.0384)Asn+(-0.0677)Cit+(0.0074)Tyr+(0.0156)Leu+(-0.1526)Trp;0.795,0.822,0.771,0.759,0.776,0.830,0.750,0.779,(4.2237)+(0.0094)Gln+(-0.1556)His+(0.0105)Thr+(-0.0246)Arg+(0.0213)Orn;0.795,0.818,0.759,0.747,0.705,0.841,0.842,0.784,(5.3742)+(-0.1521)Asn+(0.0175)Thr+(-0.0580)Val+(-0.0042)Lys+(0.1703)Ile;0.795,0.813,0.717,0.707,0.664,0.820,0.776,0.742,(0.5553)+(0.0283)Ser+(-0.0024)Thr+(-0.0371)Arg+(-0.0559)Val+(0.1631)Ile;0.795,0.823,0.779,0.791,0.788,0.813,0.704,0.774,(3.7996)+(0.0314)Ser+(-0.0178)Arg+(-0.0019)Tyr+(0.0014)Val+(-0.1464)Trp;0.795,0.825,0.804,0.797,0.815,0.807,0.800,0.805,(6.8855)+(-0.0653)Cit+(0.0030)Tyr+(-0.0167)Val+(0.0425)Leu+(-0.1563)Trp;0.795,0.824,0.757,0.766,0.767,0.788,0.686,0.752,(-2.3877)+(0.0466)Ser+(-0.0723)Cit+(-0.0093)Val+(-0.3459)Met+(0.1345)Phe;0.795,0.821,0.827,0.836,0.835,0.828,0.788,0.822,(8.1064)+(-0.0444)Asn+(-0.0019)Ala+(-0.0575)Cit+(0.0080)Lys+(-0.1357)Trp;0.795,0.828,0.827,0.838,0.826,0.819,0.807,0.822,(4.9910)+(-0.0904)Asn+(0.0057)Gln+(0.0158)Orn+(0.0045)Leu+(-0.1441)Trp;0.795,0.814,0.712,0.701,0.664,0.821,0.765,0.737,(0.5400)+(0.0252)Ser+(-0.0421)Arg+(-0.0583)Val+(0.0182)Orn+(0.1633)Ile;0.795,0.827,0.791,0.791,0.785,0.789,0.805,0.792,(5.6064)+(0.0053)Pro+(-0.0245)Val+(-0.0022)Lys+(0.0469)Leu+(-0.1502)Trp;0.795,0.817,0.795,0.789,0.782,0.836,0.807,0.803,(4.3081)+(-0.0649)Asn+(0.0110)Gln+(-0.1412)His+(0.0043)Pro+(0.0019)Lys;0.795,0.825,0.783,0.763,0.789,0.796,0.812,0.790,(4.4395)+(-0.1275)His+(-0.0007)Arg+(-0.1964)Met+(0.0076)Lys+(0.1140)Phe;0.795,0.825,0.813,0.808,0.818,0.816,0.812,0.814,(7.9456)+(-0.0437)Asn+(-0.0573)Cit+(-0.0192)Val+(0.0473)Leu+(-0.1422)Trp;0.795,0.820,0.717,0.687,0.722,0.776,0.745,0.733,(3.6216)+(0.0037)Gly+(-0.1596)His+(0.0119)Thr+(-0.0003)Pro+(0.0765)Phe;0.795,0.817,0.762,0.746,0.760,0.818,0.771,0.774,(3.9388)+(0.0076)Gln+(-0.1563)His+(0.0047)Thr+(0.0001)Val+(0.0193)Orn;0.795,0.816,0.755,0.

746,0.700,0.836,0.833,0.779,(5.0316)+(-0.1631)Asn+(0.0021)Gly+(0.0153)Thr+(-0.0585)Val+(0.1699)Ile;0.795,0.818,0.804,0.804,0.789,0.846,0.805,0.811,(4.6297)+(-0.0581)Asn+(0.0005)Gly+(0.0112)Gln+(-0.1355)His+(-0.0051)Tyr;0.795,0.824,0.803,0.812,0.791,0.800,0.805,0.802,(4.7668)+(0.0029)Gln+(-0.0103)Tyr+(-0.0219)Val+(0.0441)Leu+(-0.1529)Trp;0.795,0.826,0.836,0.834,0.856,0.839,0.797,0.832,(8.1604)+(-0.0262)Asn+(-0.0577)Cit+(0.0255)Tyr+(-0.0649)Met+(-0.1361)Trp;0.795,0.824,0.749,0.725,0.734,0.810,0.801,0.768,(4.4231)+(-0.1453)His+(0.0144)Thr+(-0.0063)Ala+(0.0046)Pro+(0.0765)Phe;0.795,0.822,0.773,0.769,0.768,0.768,0.797,0.775,(4.8814)+(-0.0009)Gly+(-0.0241)Tyr+(0.0068)Orn+(0.0513)Ile+(-0.1602)Trp;0.795,0.826,0.809,0.807,0.797,0.848,0.808,0.815,(4.2105)+(-0.0286)Asn+(0.0118)Gln+(-0.1386)His+(0.0044)Val+(-0.0878)Met;0.795,0.822,0.780,0.753,0.765,0.833,0.842,0.799,(6.3434)+(-0.1101)His+(-0.0050)Ala+(-0.1333)Met+(0.0047)Lys+(0.0672)Ile;0.795,0.830,0.721,0.715,0.749,0.765,0.647,0.719,(-3.4305)+(0.0528)Ser+(-0.0859)Cit+(0.0110)Pro+(-0.4173)Met+(0.1192)Phe;0.795,0.826,0.782,0.795,0.790,0.816,0.706,0.777,(3.9006)+(0.0312)Ser+(-0.0178)Arg+(-0.0007)Tyr+(0.0002)Lys+(-0.1446)Trp;0.795,0.823,0.803,0.811,0.790,0.813,0.799,0.803,(5.7688)+(-0.0010)Gly+(-0.0071)Ala+(0.0093)Pro+(0.0192)Orn+(-0.1405)Trp;0.795,0.822,0.803,0.801,0.822,0.806,0.764,0.798,(7.0051)+(-0.0709)Cit+(-0.0009)Arg+(0.0083)Pro+(0.0018)Lys+(-0.1522)Trp;0.795,0.818,0.801,0.796,0.790,0.842,0.810,0.809,(4.3866)+(-0.0615)Asn+(0.0112)Gln+(-0.1419)His+(0.0012)Val+(0.0020)Lys;0.795,0.826,0.741,0.764,0.735,0.768,0.670,0.734,(0.0406)+(0.0485)Ser+(-0.1598)Asn+(-0.0771)Cit+(-0.0629)Tyr+(0.1029)Phe;0.795,0.817,0.728,0.711,0.735,0.822,0.690,0.740,(4.2796)+(0.0400)Ser+(-0.1258)His+(-0.0161)Arg+(0.0090)Pro+(-0.0137)Tyr;0.795,0.823,0.756,0.747,0.769,0.822,0.703,0.760,(6.6129)+(0.0019)Gly+(-0.1161)His+(0.0261)Thr+(0.0082)Pro+(-0.1755)Met;0.795,0.823,0.752,0.749,0.670,0.851

,0.858,0.782,(-0.5322)+(0.0344)Ser+(-0.0213)Thr+(-0.0112)Ala+(0.1847)Ile+(-0.0885)Leu;0.795,0.823,0.784,0.778,0.729,0.855,0.862,0.806,(1.5886)+(-0.0137)Ala+(-0.0987)Cit+(0.1852)Ile+(-0.0961)Leu+(0.0669)Phe;0.795,0.822,0.816,0.821,0.803,0.857,0.800,0.820,(4.6134)+(-0.0317)Asn+(0.0128)Gln+(-0.1318)His+(-0.0126)Arg+(-0.0587)Met;0.795,0.818,0.793,0.786,0.776,0.843,0.810,0.804,(4.1319)+(0.0097)Gln+(-0.1500)His+(-0.0032)Ala+(0.0050)Val+(-0.0013)Lys;0.795,0.818,0.735,0.694,0.744,0.810,0.771,0.755,(5.9014)+(-0.1298)His+(0.0168)Thr+(-0.0412)Cit+(-0.0092)Lys+(0.0518)Ile;0.795,0.817,0.741,0.720,0.741,0.791,0.758,0.753,(4.2474)+(-0.0469)Asn+(0.0061)Gly+(-0.1391)His+(0.0019)Pro+(0.0836)Phe;0.795,0.822,0.785,0.771,0.786,0.803,0.806,0.792,(4.6290)+(0.0126)Asn+(-0.1193)His+(-0.0042)Val+(-0.1829)Met+(0.1235)Phe;0.795,0.827,0.788,0.786,0.791,0.786,0.792,0.789,(3.7946)+(0.0037)Gln+(-0.0222)Arg+(0.0052)Orn+(0.0494)Ile+(-0.1708)Trp;0.795,0.819,0.820,0.824,0.835,0.814,0.779,0.813,(7.9127)+(-0.0447)Asn+(-0.0617)Cit+(0.0024)Val+(0.0060)Lys+(-0.1436)Trp;0.795,0.828,0.827,0.841,0.822,0.814,0.811,0.822,(5.1031)+(-0.0940)Asn+(0.0060)Gln+(0.0048)Pro+(0.0033)Lys+(-0.1442)Trp;0.795,0.823,0.795,0.791,0.784,0.841,0.795,0.803,(4.0284)+(0.0109)Gln+(-0.1350)His+(0.0081)Pro+(0.0031)Tyr+(-0.1369)Met;0.795,0.825,0.805,0.803,0.790,0.849,0.808,0.812,(4.0632)+(0.0111)Gln+(-0.1421)His+(-0.0015)Ala+(0.0061)Val+(-0.1013)Met;0.795,0.821,0.828,0.834,0.839,0.833,0.787,0.823,(8.2330)+(-0.0336)Asn+(-0.0618)Cit+(0.0102)Arg+(-0.0331)Met+(-0.1302)Trp;0.795,0.829,0.747,0.734,0.737,0.787,0.773,0.758,(4.6166)+(-0.1366)His+(-0.0464)Tyr+(0.0295)Orn+(-0.0010)Lys+(0.0908)Phe;0.795,0.822,0.780,0.760,0.784,0.800,0.808,0.788,(4.4364)+(0.0190)Asn+(-0.1256)His+(0.0016)Arg+(-0.1949)Met+(0.1176)Phe;0.795,0.829,0.753,0.734,0.770,0.820,0.720,0.761,(6.3955)+(-0.1215)His+(0.0237)Thr+(0.0065)Pro+(-0.1724)Met+(0.0259)Orn;0.795,0.82

3,0.750,0.724,0.769,0.811,0.736,0.760,(6.4020)+(0.0073)Asn+(-0.1357)His+(0.0331)Thr+(-0.2127)Met+(0.0257)Leu;0.795,0.817,0.761,0.737,0.759,0.818,0.786,0.775,(3.5210)+(0.0083)Gln+(-0.1622)His+(0.0009)Pro+(0.0160)Orn+(0.0096)Leu;0.795,0.816,0.759,0.750,0.703,0.836,0.842,0.783,(5.2092)+(-0.1551)Asn+(0.0154)Thr+(-0.0565)Val+(0.1732)Ile+(-0.0064)Leu;0.795,0.827,0.763,0.767,0.770,0.806,0.708,0.763,(-2.3659)+(0.0473)Ser+(-0.0043)Ala+(-0.0826)Cit+(-0.3265)Met+(0.1215)Phe;0.795,0.823,0.807,0.818,0.787,0.814,0.814,0.808,(4.4893)+(0.0032)Gln+(-0.0077)Ala+(0.0089)Pro+(0.0106)Leu+(-0.1529)Trp;0.795,0.830,0.771,0.757,0.776,0.782,0.792,0.777,(4.6596)+(0.0079)Thr+(0.0028)Orn+(-0.0109)Lys+(0.0542)Ile+(-0.1660)Trp;0.795,0.821,0.796,0.801,0.786,0.807,0.798,0.798,(5.3998)+(-0.0077)Ala+(0.0087)Pro+(0.0160)Orn+(0.0085)Leu+(-0.1470)Trp;0.795,0.821,0.808,0.811,0.796,0.851,0.793,0.813,(4.5827)+(-0.0492)Asn+(0.0009)Gly+(0.0124)Gln+(-0.1373)His+(-0.0148)Arg;0.795,0.819,0.774,0.761,0.776,0.828,0.764,0.782,(3.9660)+(0.0101)Gln+(-0.1520)His+(-0.0210)Arg+(0.0030)Pro+(0.0228)Orn;0.795,0.820,0.729,0.709,0.724,0.794,0.747,0.743,(6.2487)+(-0.1339)His+(0.0215)Thr+(-0.0148)Arg+(-0.0369)Tyr+(0.0529)Ile;0.795,0.823,0.751,0.727,0.768,0.810,0.736,0.760,(6.5480)+(-0.1339)His+(0.0334)Thr+(-0.0043)Tyr+(-0.2007)Met+(0.0256)Leu;0.795,0.820,0.763,0.752,0.764,0.849,0.730,0.774,(5.2587)+(0.0415)Ser+(-0.0542)Asn+(-0.1060)His+(-0.0015)Ala+(-0.0295)Cit;0.795,0.817,0.724,0.705,0.730,0.823,0.693,0.738,(4.1540)+(0.0377)Ser+(-0.1239)His+(-0.0314)Cit+(0.0085)Pro+(-0.0157)Tyr;0.795,0.824,0.740,0.741,0.653,0.837,0.848,0.770,(-2.2045)+(0.0224)Ser+(-0.0140)Ala+(0.1719)Ile+(-0.0946)Leu+(0.0500)Phe;0.795,0.823,0.752,0.723,0.753,0.815,0.781,0.768,(5.5447)+(0.0056)Gly+(-0.1173)His+(0.0007)Arg+(-0.1609)Met+(0.0673)Ile;0.795,0.820,0.762,0.737,0.749,0.826,0.813,0.781,(6.0075)+(-0.0194)Asn+(-0.0939)His+(-0.0409)Cit+(0.1173)Ile+(-0.0500)Leu;0.795,0.828,0.828,0.845,0.8

22,0.826,0.797,0.823,(5.2425)+(-0.0869)Asn+(0.0058)Gln+(-0.0094)Tyr+(0.0195)Orn+(-0.1364)Trp;0.795,0.827,0.830,0.847,0.831,0.828,0.785,0.823,(5.2302)+(-0.0788)Asn+(0.0064)Gln+(-0.0138)Arg+(0.0215)Orn+(-0.1385)Trp;0.795,0.824,0.820,0.838,0.804,0.830,0.799,0.818,(5.0383)+(0.0046)Gln+(-0.0064)Ala+(-0.0154)Arg+(0.0105)Pro+(-0.1420)Trp;0.795,0.822,0.794,0.799,0.782,0.810,0.794,0.796,(5.3927)+(0.0091)Thr+(-0.0079)Ala+(0.0085)Pro+(0.0113)Leu+(-0.1544)Trp;0.795,0.819,0.814,0.826,0.828,0.822,0.749,0.806,(7.1380)+(0.0024)Gly+(-0.0584)Cit+(-0.0830)Met+(0.0082)Lys+(-0.1372)Trp;0.795,0.821,0.818,0.829,0.808,0.824,0.807,0.817,(7.2680)+(-0.0471)Asn+(-0.0052)Ala+(0.0112)Pro+(-0.0010)Val+(-0.1264)Trp;0.795,0.818,0.784,0.778,0.762,0.843,0.803,0.796,(4.2470)+(0.0001)Gly+(0.0089)Gln+(-0.1421)His+(-0.0048)Ala+(0.0079)Pro;0.794,0.814,0.765,0.745,0.752,0.822,0.806,0.781,(3.8482)+(0.0084)Gln+(-0.1534)His+(0.0025)Pro+(-0.0162)Val+(0.0360)Leu;0.794,0.822,0.734,0.692,0.739,0.802,0.784,0.754,(5.5904)+(-0.0434)Asn+(-0.1395)His+(0.0144)Thr+(0.0170)Orn+(0.0391)Ile;0.794,0.817,0.745,0.731,0.745,0.846,0.707,0.757,(4.6963)+(0.0342)Ser+(-0.1234)His+(0.0080)Thr+(-0.0026)Ala+(-0.0352)Cit;0.794,0.825,0.766,0.757,0.770,0.848,0.720,0.774,(5.1771)+(0.0424)Ser+(-0.0376)Asn+(-0.1024)His+(-0.0270)Cit+(-0.0655)Met;0.794,0.819,0.762,0.747,0.757,0.816,0.776,0.774,(3.9153)+(0.0082)Gln+(-0.1549)His+(-0.0223)Tyr+(0.0210)Orn+(0.0125)Leu;0.794,0.827,0.825,0.843,0.817,0.814,0.803,0.819,(5.3032)+(-0.0850)Asn+(0.0063)Gln+(0.0058)Pro+(-0.0101)Tyr+(-0.1376)Trp;0.794,0.825,0.807,0.825,0.813,0.814,0.743,0.799,(7.4171)+(-0.0808)Asn+(0.0196)Thr+(-0.0063)Tyr+(-0.0023)Val+(-0.1365)Trp;0.794,0.817,0.780,0.759,0.779,0.831,0.800,0.792,(3.8740)+(0.0106)Gln+(-0.1519)His+(-0.0388)Cit+(-0.0060)Lys+(0.0172)Leu;0.794,0.825,0.805,0.811,0.814,0.799,0.775,0.800,(6.4749)+(-0.0660)Asn+(0.0001)Gly+(0.0044)Pro+(0.0207)Orn+(-0.1371)Trp;0.794,0.825,0.793,0.788,0.817,0.799,0.755,

0.790,(6.4034)+(0.0028)Gly+(-0.0790)Cit+(0.0027)Arg+(0.0170)Leu+(-0.1623)Trp;0.794,0.821,0.761,0.746,0.757,0.843,0.749,0.774,(4.8686)+(0.0443)Ser+(-0.0045)Gly+(-0.1212)His+(-0.0014)Ala+(-0.0125)Arg;0.794,0.819,0.819,0.822,0.831,0.825,0.783,0.815,(7.3805)+(-0.0034)Ala+(-0.0678)Cit+(0.0062)Val+(0.0024)Lys+(-0.1472)Trp;0.794,0.819,0.823,0.827,0.840,0.824,0.777,0.817,(8.1333)+(-0.0237)Asn+(-0.0607)Cit+(0.0049)Val+(-0.0352)Met+(-0.1381)Trp;0.794,0.823,0.755,0.729,0.782,0.814,0.727,0.763,(6.8093)+(-0.1261)His+(0.0348)Thr+(-0.0361)Cit+(-0.2089)Met+(0.0259)Leu;0.794,0.822,0.820,0.832,0.818,0.826,0.786,0.816,(7.0182)+(-0.0569)Asn+(-0.0030)Ala+(-0.0027)Val+(0.0301)Orn+(-0.1246)Trp;0.794,0.822,0.765,0.753,0.759,0.845,0.749,0.777,(4.4487)+(0.0445)Ser+(-0.0041)Gly+(-0.1145)His+(-0.1157)Met+(0.0053)Lys;0.794,0.821,0.790,0.782,0.784,0.842,0.785,0.798,(4.3815)+(0.0100)Gln+(-0.1445)His+(-0.0029)Ala+(-0.0195)Arg+(0.0280)Orn;0.794,0.820,0.761,0.745,0.764,0.839,0.743,0.773,(5.1234)+(0.0462)Ser+(-0.0552)Asn+(-0.0034)Gly+(-0.1098)His+(-0.0241)Cit;0.794,0.825,0.842,0.858,0.836,0.833,0.820,0.837,(5.4645)+(-0.0832)Asn+(-0.0008)Gly+(0.0068)Gln+(-0.0016)Val+(-0.1357)Trp;0.794,0.825,0.816,0.809,0.823,0.837,0.805,0.819,(8.6692)+(-0.0772)His+(0.0015)Arg+(0.0275)Tyr+(-0.0525)Met+(-0.1018)Trp;0.794,0.822,0.798,0.807,0.803,0.802,0.761,0.793,(6.1843)+(-0.0002)Gly+(0.0079)Pro+(-0.1417)Met+(0.0220)Orn+(-0.1306)Trp;0.794,0.816,0.755,0.756,0.671,0.833,0.869,0.782,(3.5747)+(-0.0009)Gln+(-0.0092)Ala+(-0.0255)Tyr+(-0.0508)Val+(0.1723)Ile;0.794,0.824,0.787,0.786,0.784,0.791,0.795,0.789,(5.5544)+(-0.0021)Gly+(0.0117)Thr+(-0.0254)Val+(0.0477)Leu+(-0.1597)Trp;0.794,0.818,0.731,0.708,0.736,0.823,0.714,0.745,(3.9855)+(0.0383)Ser+(-0.1378)His+(-0.0092)Tyr+(0.0070)Val+(-0.0032)Lys;0.794,0.820,0.741,0.734,0.728,0.780,0.755,0.749,(4.2192)+(0.0041)Gly+(-0.1405)His+(-0.0388)Tyr+(0.0011)Lys+(0.1010)Phe;0.794,0.819,0.755,0.730,0.755,0.815,0.780,0.770,(3

.5666)+(0.0077)Gln+(-0.1654)His+(0.0054)Thr+(0.0141)Orn+(0.0105)Leu;0
.794,0.818,0.767,0.736,0.747,0.834,0.843,0.790,(6.0749)+(-0.1189)His+
(-0.0074)Ala+(-0.0046)Arg+(0.0043)Pro+(0.0547)Ile;0.794,0.826,0.829,0
.827,0.849,0.829,0.793,0.824,(7.2089)+(-0.0572)Cit+(0.0255)Tyr+(-0.11
86)Met+(0.0081)Lys+(-0.1441)Trp;0.794,0.826,0.820,0.816,0.833,0.824,0
.802,0.819,(7.5107)+(-0.0031)Ala+(-0.0636)Cit+(-0.0531)Met+(0.0222)Le
u+(-0.1451)Trp;0.794,0.822,0.791,0.787,0.779,0.833,0.792,0.798,(3.823
0)+(0.0106)Gln+(-0.1375)His+(0.0083)Pro+(-0.1507)Met+(0.0057)Lys;0.79
4,0.820,0.801,0.813,0.805,0.789,0.770,0.794,(6.1319)+(0.0005)Gly+(0.0
095)Pro+(-0.1557)Met+(0.0085)Lys+(-0.1371)Trp;0.794,0.825,0.846,0.863
,0.834,0.847,0.827,0.843,(5.4282)+(-0.0775)Asn+(0.0067)Gln+(-0.0028)A
la+(0.0031)Tyr+(-0.1350)Trp;0.794,0.824,0.756,0.717,0.761,0.820,0.801
,0.775,(5.5461)+(0.0302)Asn+(-0.1230)His+(-0.1788)Met+(0.0227)Orn+(0.
0595)Ile;0.794,0.822,0.801,0.811,0.789,0.815,0.791,0.802,(5.6696)+(-0
.0071)Ala+(0.0093)Pro+(0.0193)Orn+(-0.0009)Lys+(-0.1396)Trp;0.794,0.8
20,0.757,0.748,0.678,0.839,0.884,0.787,(3.3941)+(-0.0108)Ala+(0.0052)
Pro+(-0.0508)Val+(-0.0110)Lys+(0.1715)Ile;0.794,0.816,0.760,0.763,0.6
76,0.835,0.876,0.787,(3.6417)+(-0.0021)Gly+(-0.0091)Ala+(-0.0278)Tyr+
(-0.0507)Val+(0.1715)Ile;0.794,0.824,0.791,0.779,0.789,0.809,0.814,0.
798,(4.8793)+(-0.1156)His+(-0.0012)Ala+(-0.0041)Val+(-0.1638)Met+(0.1
224)Phe;0.794,0.822,0.745,0.719,0.742,0.795,0.783,0.760,(4.2519)+(-0.
1391)His+(0.0019)Pro+(-0.0091)Val+(0.0270)Orn+(0.0777)Phe;0.794,0.822
,0.788,0.783,0.745,0.852,0.844,0.806,(3.4265)+(-0.0080)Ala+(-0.1994)M
et+(0.0124)Orn+(0.1761)Ile+(-0.0805)Leu;0.794,0.819,0.751,0.753,0.667
,0.837,0.858,0.779,(2.8914)+(-0.0095)Ala+(-0.0313)Tyr+(-0.0515)Val+(0
.0194)Orn+(0.1674)Ile;0.794,0.817,0.718,0.684,0.730,0.811,0.715,0.735
,(3.6069)+(0.0401)Ser+(-0.1398)His+(-0.0316)Cit+(-0.0145)Tyr+(0.0222)
Leu;0.794,0.816,0.761,0.752,0.705,0.840,0.844,0.785,(5.2686)+(-0.1579

)Asn+(0.0165)Thr+(-0.0022)Pro+(-0.0586)Val+(0.1721)Ile;0.794,0.822,0.730,0.700,0.735,0.795,0.753,0.746,(3.8218)+(0.0043)Gly+(-0.1483)His+(0.0221)Orn+(-0.0051)Lys+(0.0745)Phe;0.794,0.822,0.822,0.827,0.835,0.843,0.769,0.818,(7.1798)+(0.0027)Gly+(-0.0032)Ala+(-0.0686)Cit+(0.0170)Tyr+(-0.1426)Trp;0.794,0.821,0.739,0.705,0.753,0.800,0.752,0.753,(5.0091)+(-0.1455)His+(0.0202)Thr+(-0.0406)Cit+(-0.0103)Lys+(0.0854)Phe;0.794,0.819,0.768,0.743,0.744,0.830,0.838,0.789,(6.2946)+(-0.1179)His+(-0.0058)Ala+(-0.0165)Tyr+(0.0000)Lys+(0.0607)Ile;0.794,0.825,0.794,0.790,0.818,0.798,0.755,0.790,(6.4435)+(0.0029)Gly+(-0.0777)Cit+(0.0025)Tyr+(0.0168)Leu+(-0.1623)Trp;0.794,0.824,0.842,0.860,0.828,0.841,0.823,0.838,(5.3445)+(-0.0841)Asn+(0.0065)Gln+(-0.0029)Ala+(0.0048)Lys+(-0.1379)Trp;0.794,0.819,0.794,0.793,0.779,0.833,0.799,0.801,(4.5544)+(-0.0588)Asn+(0.0110)Gln+(-0.1346)His+(0.0059)Pro+(-0.0140)Tyr;0.794,0.827,0.831,0.848,0.827,0.8

22,0.802,0.825,(5.2847)+(-0.0784)Asn+(0.0068)Gln+(-0.0111)Arg+(0.0055)Pro+(-0.1401)Trp;0.794,0.823,0.795,0.810,0.782,0.817,0.768,0.794,(5.9293)+(0.0104)Thr+(-0.0066)Ala+(0.0101)Pro+(-0.0108)Tyr+(-0.1424)Trp;0.794,0.818,0.751,0.733,0.746,0.832,0.752,0.766,(4.5624)+(0.0427)Ser+(-0.0051)Gly+(-0.1255)His+(-0.0077)Tyr+(-0.0009)Lys;0.794,0.819,0.727,0.700,0.738,0.828,0.700,0.742,(4.0824)+(0.0386)Ser+(-0.1270)His+(-0.0317)Cit+(0.0072)Pro+(-0.0032)Lys;0.794,0.817,0.727,0.704,0.739,0.820,0.696,0.740,(4.0359)+(0.0401)Ser+(-0.1317)His+(-0.0171)Arg+(0.0075)Pro+(0.0006)Lys;0.794,0.821,0.758,0.754,0.670,0.835,0.895,0.789,(1.3388)+(-0.0025)Thr+(-0.0115)Ala+(-0.0548)Val+(0.1685)Ile+(0.0379)Phe;0.794,0.820,0.823,0.829,0.834,0.820,0.784,0.817,(7.9723)+(-0.0498)Asn+(-0.0617)Cit+(0.0046)Arg+(0.0062)Lys+(-0.1394)Trp;0.794,0.817,0.772,0.762,0.721,0.843,0.855,0.795,(5.7519)+(-0.1111)Asn+(-0.0470)Cit+(-0.0002)Pro+(-0.0537)Val+(0.1652)Ile;0.794,0.828,0.792,0.790,0.792,0.786,0.

803,0.793,(3.8577)+(-0.0006)Gly+(0.0040)Gln+(-0.0211)Arg+(0.0509)Ile+(-0.1710)Trp;0.794,0.826,0.779,0.767,0.778,0.789,0.806,0.785,(4.5504)+(-0.1273)His+(-0.0206)Tyr+(-0.1726)Met+(0.0085)Lys+(0.1201)Phe;0.794,0.821,0.819,0.820,0.837,0.822,0.779,0.814,(7.4266)+(-0.0677)Cit+(0.0088)Arg+(0.0057)Val+(-0.0691)Met+(-0.1426)Trp;0.794,0.818,0.823,0.832,0.833,0.828,0.777,0.818,(7.5022)+(-0.0013)Ala+(-0.0549)Cit+(-0.0705)Met+(0.0084)Lys+(-0.1354)Trp;0.794,0.824,0.739,0.715,0.743,0.797,0.754,0.752,(4.0724)+(-0.0486)Asn+(0.0055)Gly+(-0.1410)His+(0.0208)Orn+(0.0768)Phe;0.794,0.825,0.769,0.782,0.751,0.789,0.757,0.770,(-2.6998)+(0.0515)Ser+(-0.0059)Gly+(-0.0124)Val+(-0.3487)Met+(0.1258)Phe;0.794,0.827,0.819,0.810,0.833,0.843,0.798,0.821,(9.0139)+(-0.0673)His+(-0.0330)Cit+(0.0295)Tyr+(-0.0431)Met+(-0.1069)Trp;0.794,0.827,0.835,0.848,0.833,0.823,0.815,0.830,(4.8122)+(-0.0518)Asn+(0.0073)Gln+(-0.1186)Met+(0.0135)Leu+(-0.1398)Trp;0.794,0.817,0.772,0.761,0.722,0.842,0.853,0.795,(5.7809)+(-0.1085)Asn+(-0.0452)Cit+(-0.0023)Arg+(-0.0538)Val+(0.1655)Ile;0.794,0.824,0.796,0.799,0.731,0.853,0.882,0.816,(2.2674)+(-0.0901)Asn+(-0.0108)Ala+(0.1639)Ile+(-0.0923)Leu+(0.0667)Phe;0.794,0.822,0.814,0.829,0.793,0.825,0.808,0.814,(4.7961)+(0.0034)Gln+(-0.0069)Ala+(0.0100)Pro+(-0.0005)Val+(-0.1441)Trp;0.794,0.824,0.790,0.773,0.789,0.810,0.821,0.799,(4.7979)+(-0.1200)His+(-0.0019)Ala+(0.0022)Arg+(-0.1670)Met+(0.1162)Phe;0.794,0.824,0.782,0.760,0.787,0.799,0.816,0.791,(4.6292)+(-0.1241)His+(0.0032)Arg+(-0.1854)Met+(0.0045)Leu+(0.1112)Phe;0.794,0.823,0.738,0.743,0.692,0.817,0.759,0.753,(1.6388)+(0.0358)Ser+(-0.1265)Asn+(-0.0391)Tyr+(0.1478)Ile+(-0.0736)Leu;0.794,0.819,0.746,0.727,0.755,0.801,0.737,0.755,(4.4168)+(-0.0499)Asn+(0.0078)Gly+(-0.1306)His+(-0.0443)Cit+(0.0942)Phe;0.794,0.817,0.734,0.715,0.744,0.823,0.702,0.746,(4.2417)+(0.0401)Ser+(-0.1347)His+(-0.0137)Arg+(-0.0080)Tyr+(0.0063)Val;0.794,0.817,0.722,0.694,0.734,0.821,0.696,0.736,

(3.9150)+(0.0372)Ser+(-0.1317)His+(0.0019)Thr+(-0.0327)Cit+(0.0065)Pro;0.794,0.823,0.803,0.801,0.822,0.806,0.764,0.798,(7.1211)+(-0.0722)Cit+(0.0082)Pro+(-0.0042)Tyr+(0.0021)Val+(-0.1519)Trp;0.794,0.822,0.797,0.812,0.798,0.792,0.760,0.791,(4.4938)+(0.0020)Gln+(0.0040)Pro+(-0.0047)Val+(0.0152)Orn+(-0.1495)Trp;0.794,0.820,0.818,0.829,0.820,0.825,0.778,0.813,(6.9492)+(-0.0352)Asn+(-0.0022)Ala+(-0.0699)Met+(0.0297)Orn+(-0.1246)Trp;0.794,0.817,0.772,0.761,0.721,0.843,0.855,0.795,(5.7547)+(-0.1109)Asn+(-0.0471)Cit+(-0.0536)Val+(-0.0002)Lys+(0.1650)Ile;0.794,0.816,0.753,0.758,0.667,0.834,0.863,0.781,(3.0884)+(0.0030)Thr+(-0.0094)Ala+(-0.0290)Tyr+(-0.0507)Val+(0.1706)Ile;0.794,0.826,0.827,0.840,0.823,0.813,0.813,0.822,(5.0258)+(-0.0887)Asn+(0.0061)Gln+(0.0042)Pro+(0.0051)Leu+(-0.1457)Trp;0.794,0.822,0.817,0.828,0.821,0.817,0.777,0.811,(6.9399)+(-0.0645)Asn+(-0.0001)Gly+(-0.0045)Val+(0.0290)Orn+(-0.1263)Trp;0.794,0.813,0.764,0.745,0.757,0.815,0.790,0.777,(3.5084)+(0.0006)Gly+(0.0089)Gln+(-0.1620)His+(0.0016)Pro+(0.0121)Leu;0.794,0.825,0.799,0.806,0.808,0.795,0.762,0.793,(6.6551)+(-0.0849)Asn+(0.0162)Thr+(0.0034)Pro+(0.0059)Leu+(-0.1488)Trp;0.794,0.824,0.789,0.784,0.742,0.853,0.850,0.807,(3.7121)+(-0.0094)Ala+(0.0072)Pro+(-0.2029)Met+(0.1697)Ile+(-0.0774)Leu;0.794,0.814,0.772,0.772,0.708,0.844,0.853,0.794,(4.0292)+(-0.1567)Asn+(0.0021)Gly+(0.0040)Gln+(-0.0557)Val+(0.1631)Ile;0.794,0.825,0.759,0.746,0.761,0.846,0.727,0.770,(4.0501)+(0.0408)Ser+(-0.1192)His+(0.0186)Tyr+(-0.1530)Met+(0.0055)Lys;0.794,0.817,0.738,0.721,0.731,0.789,0.756,0.750,(4.0285)+(0.0046)Gly+(-0.1432)His+(-0.0050)Val+(-0.0011)Lys+(0.0894)Phe;0.794,0.815,0.768,0.759,0.760,0.821,0.773,0.778,(4.1761)+(0.0084)Gln+(-0.1523)His+(0.0075)Thr+(0.0033)Pro+(-0.0037)Lys;0.794,0.825,0.845,0.863,0.832,0.849,0.826,0.842,(5.4385)+(-0.0766)Asn+(0.0068)Gln+(-0.0027)Ala+(0.0002)Val+(-0.1343)Trp;0.794,0.818,0.816,0.826,0.826,0.831,0.760,0.810,(7.1563)+(0.0021)G

ly+(-0.0026)Ala+(-0.0647)Cit+(0.0043)Lys+(-0.1404)Trp;0.794,0.817,0.779,0.768,0.774,0.831,0.783,0.789,(3.6678)+(0.0010)Gly+(0.0111)Gln+(-0.1592)His+(-0.0183)Arg+(0.0131)Leu;0.794,0.813,0.780,0.770,0.770,0.828,0.791,0.790,(3.9761)+(0.0001)Gly+(0.0095)Gln+(-0.1540)His+(0.0032)Val+(-0.0022)Lys;0.794,0.821,0.812,0.824,0.805,0.818,0.792,0.810,(6.8864)+(-0.0045)Ala+(0.0127)Pro+(0.0006)Val+(-0.1048)Met+(-0.1252)Trp;0.794,0.825,0.756,0.743,0.770,0.821,0.712,0.762,(6.4987)+(0.0011)Gly+(-0.1234)His+(0.0230)Thr+(-0.1494)Met+(0.0294)Orn;0.794,0.826,0.828,0.837,0.839,0.831,0.776,0.821,(5.4187)+(0.0058)Gln+(-0.0717)Cit+(-0.0044)Arg+(0.0012)Tyr+(-0.1537)Trp;0.794,0.822,0.789,0.801,0.795,0.793,0.745,0.783,(5.1225)+(0.0046)Thr+(0.0039)Pro+(-0.0050)Val+(0.0159)Orn+(-0.1487)Trp;0.794,0.819,0.778,0.774,0.775,0.833,0.755,0.784,(4.2392)+(0.0103)Gln+(-0.1570)His+(0.0128)Thr+(-0.0237)Arg+(0.0020)Val;0.794,0.823,0.787,0.768,0.787,0.810,0.822,0.797,(4.8811)+(-0.1208)His+(-0.0023)Ala+(-0.1675)Met+(0.0059)Leu+(0.1104)Phe;0.794,0.821,0.793,0.791,0.746,0.858,0.851,0.811,(3.7525)+(-0.0049)Asn+(-0.0078)Ala+(-0.1873)Met+(0.1779)Ile+(-0.0796)Leu;0.794,0.817,0.744,0.734,0.665,0.837,0.871,0.777,(3.1033)+(-0.0025)Gln+(-0.0105)Ala+(-0.0546)Val+(0.0190)Orn+(0.1720)Ile;0.794,0.816,0.734,0.717,0.742,0.834,0.691,0.746,(4.5835)+(0.0350)Ser+(-0.1273)His+(0.0071)Thr+(-0.0330)Cit+(-0.0027)Lys;0.794,0.819,0.736,0.721,0.745,0.833,0.687,0.746,(4.6182)+(0.0357)Ser+(-0.1328)His+(0.0087)Thr+(-0.0180)Arg+(0.0010)Lys;0.794,0.817,0.782,0.769,0.770,0.835,0.803,0.794,(3.9930)+(0.0108)Gln+(-0.1519)His+(-0.0175)Arg+(-0.0153)Val+(0.0364)Leu;0.794,0.817,0.765,0.768,0.701,0.826,0.843,0.785,(5.5892)+(-0.1039)Asn+(-0.0252)Tyr+(-0.0474)Val+(0.1778)Ile+(-0.0188)Leu;0.794,0.817,0.756,0.744,0.745,0.809,0.771,0.767,(4.0099)+(0.0080)Gln+(-0.1594)His+(0.0108)Thr+(-0.0240)Tyr+(0.0162)Leu;0.794,0.816,0.763,0.755,0.686,0.844,0.887,0.793,(3.5124)+(-0.0007)Gly+(-0.0097)Ala+

(-0.0509)Val+(-0.0105)Lys+(0.1755)Ile;0.794,0.818,0.784,0.778,0.762,0.843,0.804,0.797,(4.2524)+(0.0089)Gln+(-0.1421)His+(-0.0048)Ala+(0.0079)Pro+(0.0000)Lys;0.794,0.820,0.754,0.742,0.682,0.845,0.874,0.786,(3.1818)+(-0.0099)Ala+(-0.0518)Val+(0.0224)Orn+(-0.0138)Lys+(0.1730)Ile;0.794,0.819,0.752,0.741,0.756,0.834,0.716,0.762,(4.8925)+(0.0419)Ser+(-0.0553)Asn+(-0.1183)His+(-0.0121)Arg+(0.0052)Lys;0.794,0.814,0.714,0.686,0.679,0.835,0.778,0.744,(1.3466)+(0.0293)Ser+(-0.0667)Cit+(-0.0462)Val+(-0.0224)Lys+(0.1590)Ile;0.794,0.818,0.783,0.781,0.778,0.837,0.758,0.788,(4.4394)+(-0.0005)Gly+(0.0103)Gln+(-0.1534)His+(0.0134)Thr+(-0.0237)Arg;0.794,0.824,0.819,0.826,0.814,0.823,0.807,0.818,(6.7812)+(-0.0047)Ala+(0.0122)Pro+(0.0171)Tyr+(-0.1267)Met+(-0.1285)Trp;0.793,0.818,0.769,0.739,0.749,0.837,0.842,0.792,(6.1745)+(-0.1198)His+(-0.0064)Ala+(-0.0030)Arg+(-0.0009)Lys+(0.0588)Ile;0.793,0.818,0.765,0.749,0.743,0.808,0.821,0.781,(4.8512)+(-0.1290)His+(-0.0058)Ala+(0.0075)Pro+(-0.0051)Val+(0.0853)Phe;0.793,0.822,0.781,0.754,0.767,0.833,0.844,0.799,(6.4861)+(-0.1064)His+(-0.0051)Ala+(0.0024)Tyr+(-0.1245)Met+(0.0687)Ile;0.793,0.823,0.846,0.867,0.834,0.846,0.816,0.841,(5.4906)+(-0.0704)Asn+(0.0073)Gln+(-0.0024)Ala+(-0.0081)Arg+(-0.1329)Trp;0.793,0.817,0.764,0.746,0.761,0.821,0.777,0.776,(3.8053)+(-0.0001)Gly+(0.0080)Gln+(-0.1548)His+(0.0024)Pro+(0.0195)Orn;0.793,0.824,0.766,0.743,0.763,0.815,0.797,0.780,(4.9074)+(-0.1339)His+(-0.0049)Ala+(-0.0105)Arg+(0.0279)Orn+(0.0741)Phe;0.793,0.822,0.750,0.725,0.747,0.800,0.784,0.764,(4.4315)+(-0.1372)His+(-0.0081)Val+(0.0290)Orn+(-0.0028)Lys+(0.0799)Phe;0.793,0.821,0.727,0.698,0.723,0.796,0.762,0.745,(5.3553)+(0.0027)Gly+(-0.1343)His+(-0.0309)Tyr+(0.0251)Orn+(0.0484)Ile;0.793,0.825,0.839,0.851,0.825,0.838,0.835,0.837,(5.0905)+(-0.0757)Asn+(0.0065)Gln+(-0.0039)Ala+(0.0122)Leu+(-0.1425)Trp;0.793,0.822,0.760,0.749,0.773,0.820,0.722,0.766,(6.9048)+(-0.0068)Asn+(-0.1142)His+(0.0275)Thr+

(0.0078)Pro+(-0.1696)Met;0.793,0.819,0.813,0.812,0.829,0.807,0.789,0.809,(7.6940)+(-0.0406)Asn+(-0.0656)Cit+(0.0028)Lys+(0.0147)Leu+(-0.1511)Trp;0.793,0.817,0.759,0.741,0.757,0.815,0.771,0.771,(3.8413)+(0.0076)Gln+(-0.1567)His+(0.0041)Thr+(0.0021)Pro+(0.0181)Orn;0.793,0.823,0.774,0.762,0.777,0.770,0.801,0.778,(4.3147)+(-0.0011)Gly+(0.0053)Thr+(-0.0027)Pro+(0.0507)Ile+(-0.1745)Trp;0.793,0.825,0.738,0.693,0.741,0.801,0.808,0.761,(4.4298)+(-0.1422)His+(0.0197)Orn+(-0.0089)Lys+(0.0332)Ile+(0.0516)Phe;0.793,0.821,0.744,0.741,0.736,0.785,0.742,0.751,(4.4974)+(0.0048)Gly+(-0.1374)His+(-0.0092)Arg+(-0.0360)Tyr+(0.1044)Phe;0.793,0.823,0.774,0.771,0.767,0.766,0.801,0.776,(4.9384)+(-0.0006)Gly+(-0.0001)Pro+(-0.0218)Tyr+(0.0536)Ile+(-0.1606)Trp;0.793,0.812,0.756,0.749,0.672,0.840,0.885,0.787,(3.1714)+(-0.0008)Gly+(-0.0013)Gln+(-0.0103)Ala+(-0.0532)Val+(0.1737)Ile;0.793,0.824,0.758,0.751,0.756,0.844,0.719,0.767,(4.3330)+(0.0389)Ser+(-0.1167)His+(-0.0000)Ala+(-0.1221)Met+(0.0064)Lys;0.793,0.819,0.802,0.805,0.785,0.849,0.798,0.809,(4.1580)+(0.0105)Gln+(-0.1365)His+(-0.0006)Ala+(-0.1108)Met+(0.0058)Lys;0.793,0.819,0.778,0.767,0.779,0.833,0.764,0.786,(4.0777)+(0.0003)Gly+(0.0101)Gln+(-0.1509)His+(-0.0207)Arg+(0.0250)Orn;0.793,0.819,0.831,0.840,0.839,0.837,0.785,0.825,(8.4912)+(-0.0277)Asn+(-0.0011)Ala+(-0.0555)Cit+(-0.0149)Met+(-0.1274)Trp;0.793,0.819,0.744,0.726,0.744,0.795,0.758,0.756,(4.3040)+(-0.0463)Asn+(0.0061)Gly+(-0.1393)His+(0.0003)Lys+(0.0856)Phe;0.793,0.818,0.729,0.690,0.734,0.807,0.766,0.749,(5.1129)+(-0.0330)Asn+(0.0045)Gly+(
-0.1349)His+(0.0202)Orn+(0.0430)Ile;0.793,0.821,0.776,0.764,0.779,0.767,0.806,0.779,(4.3457)+(-0.0004)Gly+(-0.0021)Pro+(0.0025)Orn+(0.0509)Ile+(-0.1706)Trp;0.793,0.821,0.813,0.829,0.818,0.832,0.745,0.806,(7.6538)+(-0.0670)Asn+(0.0227)Thr+(-0.0031)Ala+(-0.0113)Arg+(-0.1376)Trp;0.793,0.820,0.810,0.813,0.797,0.849,0.798,0.814,(4.6799)+(-0.0474)As

n+(0.0126)Gln+(-0.1360)His+(-0.0145)Arg+(-0.0034)Tyr;0.793,0.820,0.797,0.805,0.806,0.807,0.749,0.792,(6.4087)+(-0.0082)Arg+(0.0080)Pro+(-0.1309)Met+(0.0245)Orn+(-0.1295)Trp;0.793,0.818,0.800,0.798,0.786,0.847,0.800,0.808,(4.1993)+(0.0114)Gln+(-0.1491)His+(-0.0027)Ala+(-0.0168)Arg+(0.0046)Val;0.793,0.818,0.729,0.699,0.733,0.775,0.768,0.744,(4.2158)+(-0.1566)His+(0.0143)Thr+(-0.0004)Pro+(-0.0007)Leu+(0.0725)Phe;0.793,0.818,0.724,0.704,0.728,0.818,0.704,0.738,(3.9603)+(0.0354)Ser+(-0.1408)His+(0.0042)Thr+(-0.0141)Tyr+(0.0061)Val;0.793,0.824,0.815,0.821,0.794,0.825,0.837,0.819,(4.7834)+(0.0034)Gln+(-0.0050)Ala+(-0.0217)Val+(0.0487)Leu+(-0.1507)Trp;0.793,0.815,0.760,0.762,0.697,0.828,0.838,0.782,(5.4050)+(-0.1188)Asn+(0.0023)Gly+(-0.0212)Tyr+(-0.0538)Val+(0.1662)Ile;0.793,0.823,0.799,0.811,0.787,0.819,0.779,0.799,(5.8172)+(0.0093)Thr+(-0.0069)Ala+(0.0097)Pro+(-0.0009)Val+(-0.1445)Trp;0.793,0.823,0.752,0.721,0.755,0.816,0.782,0.768,(5.5022)+(0.0058)Gly+(-0.1176)His+(0.0036)Tyr+(-0.1656)Met+(0.0671)Ile;0.793,0.822,0.817,0.826,0.832,0.832,0.753,0.811,(7.3937)+(0.0026)Gly+(-0.0647)Cit+(0.0078)Arg+(-0.0625)Met+(-0.1327)Trp;0.793,0.819,0.758,0.731,0.744,0.826,0.809,0.778,(5.7662)+(-0.0993)His+(-0.0416)Cit+(-0.0033)Pro+(0.1222)Ile+(-0.0503)Leu;0.793,0.822,0.814,0.830,0.794,0.826,0.808,0.814,(4.7912)+(0.0035)Gln+(-0.0069)Ala+(0.0099)Pro+(-0.0005)Lys+(-0.1442)Trp;0.793,0.815,0.780,0.780,0.714,0.847,0.869,0.802,(4.1324)+(-0.1519)Asn+(0.0044)Gln+(-0.0017)Pro+(-0.0556)Val+(0.1640)Ile;0.793,0.817,0.714,0.671,0.721,0.793,0.758,0.736,(4.5588)+(0.0028)Gly+(-0.1495)His+(0.0081)Thr+(0.0151)Orn+(0.0418)Ile;0.793,0.822,0.804,0.816,0.805,0.794,0.774,0.797,(6.3171)+(0.0105)Pro+(-0.0033)Val+(-0.1548)Met+(0.0100)Lys+(-0.1339)Trp;0.793,0.819,0.737,0.727,0.743,0.833,0.680,0.746,(4.8641)+(0.0350)Ser+(-0.1294)His+(0.0106)Thr+(-0.0176)Arg+(-0.0079)Tyr;0.793,0.824,0.814,0.814,0.801,0.854,0.811,0.820,(4.4187)+(-0.0341)Asn+(0.0118)Gln+

(-0.1334)His+(0.0087)Tyr+(-0.0870)Met;0.793,0.818,0.801,0.794,0.793,0.842,0.806,0.809,(4.5252)+(-0.0640)Asn+(0.0119)Gln+(-0.1320)His+(-0.0374)Cit+(0.0048)Pro;0.793,0.822,0.758,0.746,0.771,0.819,0.721,0.764,(6.7665)+(-0.1173)His+(0.0274)Thr+(0.0075)Pro+(0.0014)Val+(-0.1767)Met;0.793,0.814,0.703,0.687,0.656,0.813,0.765,0.730,(1.3782)+(0.0313)Ser+(-0.0031)Gln+(-0.0342)Arg+(-0.0566)Val+(0.1672)Ile;0.793,0.826,0.745,0.730,0.722,0.830,0.767,0.763,(-1.3249)+(0.0468)Ser+(-0.0074)Ala+(-0.0128)Arg+(-0.2893)Met+(0.0802)Ile;0.793,0.825,0.790,0.785,0.784,0.791,0.813,0.793,(5.9414)+(-0.0463)Asn+(-0.0136)Tyr+(-0.0014)Lys+(0.0539)Ile+(-0.1497)Trp;0.793,0.818,0.749,0.736,0.749,0.838,0.717,0.760,(4.6217)+(0.0377)Ser+(-0.1254)His+(-0.0017)Ala+(-0.0148)Arg+(0.0035)Lys;0.793,0.824,0.761,0.737,0.793,0.835,0.704,0.767,(6.9249)+(-0.1123)His+(0.0233)Thr+(-0.0652)Cit+(-0.1490)Met+(0.0467)Orn;0.793,0.822,0.809,0.816,0.808,0.821,0.786,0.808,(6.8823)+(-0.0754)Asn+(0.0196)Thr+(-0.0047)Ala+(0.0132)Leu+(-0.1469)Trp;0.793,0.825,0.838,0.857,0.830,0.826,0.816,0.832,(5.3642)+(-0.0935)Asn+(0.0064)Gln+(-0.0029)Val+(0.0053)Lys+(-0.1379)Trp;0.793,0.822,0.797,0.810,0.782,0.812,0.783,0.797,(5.7594)+(-0.0067)Ala+(0.0098)Pro+(-0.0101)Tyr+(0.0202)Orn+(-0.1368)Trp;0.793,0.815,0.784,0.775,0.776,0.830,0.788,0.792,(3.9363)+(0.0114)Gln+(-0.1543)His+(-0.0170)Arg+(-0.0135)Tyr+(0.0146)Leu;0.793,0.821,0.818,0.828,0.807,0.822,0.808,0.817,(7.1926)+(-0.0468)Asn+(-0.0054)Ala+(0.0110)Pro+(0.0004)Tyr+(-0.1282)Trp;0.793,0.814,0.794,0.793,0.774,0.843,0.800,0.803,(4.3590)+(-0.0002)Gly+(0.0094)Gln+(-0.1438)His+(-0.0025)Ala+(0.0005)Lys;0.793,0.817,0.730,0.695,0.730,0.807,0.764,0.749,(5.5923)+(-0.1401)His+(0.0128)Thr+(-0.0247)Val+(0.0282)Orn+(0.0462)Leu;0.793,0.817,0.752,0.738,0.758,0.836,0.718,0.762,(4.9553)+(0.0417)Ser+(-0.0618)Asn+(-0.1119)His+(-0.0287)Cit+(0.0030)Lys;0.793,0.814,0.755,0.750,0.670,0.836,0.885,0.785,(2.7208)+(-0.0018)Gly+(-0.0117)Ala+(0.0051)Pro

+(-0.0532)Val+(0.1682)Ile;0.793,0.828,0.747,0.749,0.771,0.792,0.662,0.743,(-2.4003)+(0.0507)Ser+(-0.0823)Cit+(-0.3333)Met+(-0.0098)Lys+(0.1255)Phe;0.793,0.822,0.747,0.717,0.761,0.787,0.765,0.758,(5.2606)+(-0.0634)Asn+(-0.1383)His+(0.0222)Thr+(-0.0386)Cit+(0.0807)Phe;0.793,0.820,0.788,0.809,0.783,0.784,0.743,0.780,(4.6877)+(0.0025)Gln+(0.0065)Thr+(0.0049)Pro+(-0.0215)Tyr+(-0.1517)Trp;0.793,0.818,0.806,0.800,0.798,0.844,0.810,0.813,(4.4701)+(-0.0591)Asn+(0.0122)Gln+(-0.1357)His+(-0.0382)Cit+(0.0030)Val;0.793,0.819,0.779,0.768,0.779,0.833,0.766,0.787,(4.1028)+(0.0102)Gln+(-0.1507)His+(-0.0206)Arg+(-0.0001)Val+(0.0251)Orn;0.793,0.813,0.766,0.754,0.758,0.816,0.778,0.777,(4.0101)+(-0.0005)Gly+(0.0083)Gln+(-0.1550)His+(0.0063)Thr+(0.0030)Pro;0.793,0.812,0.764,0.751,0.756,0.816,0.777,0.775,(3.8960)+(0.0083)Gln+(-0.1570)His+(0.0060)Thr+(0.0027)Pro+(0.0012)Val;0.793,0.824,0.800,0.808,0.811,0.799,0.759,0.794,(6.5145)+(-0.0862)Asn+(0.0149)Thr+(0.0145)Orn+(0.0051)Leu+(-0.1469)Trp;0.793,0.821,0.714,0.679,0.721,0.782,0.742,0.731,(3.4348)+(0.0035)Gly+(-0.1602)His+(0.0097)Thr+(0.0152)Orn+(0.0703)Phe;0.793,0.826,0.804,0.796,0.825,0.801,0.785,0.802,(6.9385)+(-0.0764)Cit+(0.0061)Arg+(-0.0033)Lys+(0.0180)Leu+(-0.1593)Trp;0.793,0.823,0.779,0.766,0.782,0.783,0.807,0.784,(4.8030)+(-0.0003)Gly+(0.0068)Orn+(-0.0087)Lys+(0.0535)Ile+(-0.1616)Trp;0.793,0.822,0.802,0.812,0.790,0.818,0.791,0.803,(6.0469)+(-0.0019)Gly+(0.0108)Thr+(-0.0070)Ala+(0.0094)Pro+(-0.1466)Trp;0.793,0.821,0.755,0.744,0.737,0.788,0.802,0.768,(5.0343)+(-0.1299)His+(-0.0354)Tyr+(-0.0161)Val+(0.0261)Leu+(0.0950)Phe;0.793,0.820,0.818,0.828,0.826,0.839,0.761,0.814,(7.3301)+(0.0022)Gly+(-0.0024)Ala+(-0.0677)Cit+(0.0050)Arg+(-0.1370)Trp;0.793,0.818,0.779,0.775,0.777,0.828,0.761,0.785,(4.3698)+(0.0100)Gln+(-0.1446)His+(-0.0200)Arg+(-0.0148)Tyr+(0.0286)Orn;0.793,0.820,0.729,0.711,0.735,0.798,0.711,0.739,(-1.2528)+(0.0484)Ser+(-0.0678)Asn+(0.0084)Thr+(-0.3199)Met+(0.0

622)Ile;0.793,0.817,0.747,0.720,0.735,0.796,0.811,0.765,(4.7495)+(-0.1368)His+(0.0028)Pro+(-0.0204)Val+(0.0297)Leu+(0.0729)Phe;0.793,0.821,0.825,0.827,0.840,0.822,0.788,0.819,(7.9235)+(-0.0500)Asn+(-0.0609)Cit+(0.0095)Tyr+(0.0064)Lys+(-0.1431)Trp;0.793,0.823,0.764,0.750,0.784,0.828,0.711,0.769,(7.1547)+(-0.1076)His+(0.0287)Thr+(-0.0338)Cit+(0.0083)Pro+(-0.1775)Met;0.793,0.818,0.768,0.744,0.744,0.829,0.835,0.788,(6.3947)+(-0.1169)His+(-0.0057)Ala+(-0.0025)Arg+(-0.0160)Tyr+(0.0607)Ile;0.793,0.816,0.781,0.770,0.766,0.814,0.821,0.793,(5.4820)+(-0.0340)Asn+(-0.1212)His+(-0.0033)Ala+(-0.0054)Val+(0.0939)Phe;0.793,0.823,0.765,0.758,0.767,0.851,0.716,0.773,(5.0941)+(0.0425)Ser+(-0.0332)Asn+(-0.1082)His+(-0.0072)Arg+(-0.0612)Met;0.793,0.822,0.817,0.814,0.834,0.815,0.792,0.814,(7.7870)+(-0.0207)Asn+(-0.0617)Cit+(-0.0553)Met+(0.0187)Leu+(-0.1449)Trp;0.793,0.821,0.832,0.853,0.824,0.830,0.798,0.826,(4.7080)+(0.0057)Gln+(-0.0015)Ala+(-0.1336)Met+(0.0058)Lys+(-0.1384)Trp;0.793,0.816,0.748,0.727,0.750,0.832,0.737,0.762,(4.6029)+(0.0424)Ser+(-0.0040)Gly+(-0.1229)His+(-0.0241)Cit+(-0.0017)Lys;0.793,0.822,0.811,0.829,0.790,0.823,0.801,0.811,(4.8606)+(0.0036)Gln+(-0.0066)Ala+(0.0103)Pro+(-0.0084)Tyr+(-0.1418)Trp;0.793,0.822,0.812,0.824,0.811,0.798,0.790,0.806,(6.9583)+(-0.0726)Asn+(0.0075)Pro+(-0.0054)Val+(0.0079)Lys+(-0.1334)Trp;0.793,0.817,0.762,0.754,0.685,0.843,0.883,0.791,(3.4488)+(-0.0001)Gln+(-0.0097)Ala+(-0.0508)Val+(-0.0106)Lys+(0.1756)Ile;0.793,0.816,0.756,0.738,0.752,0.841,0.749,0.770,(4.7263)+(0.0417)Ser+(-0.0038)Gly+(-0.1188)His+(-0.0021)Ala+(-0.0256)Cit;0.793,0.823,0.788,0.775,0.788,0.804,0.811,0.794,(4.7525)+(-0.1170)His+(0.0017)Arg+(-0.0047)Val+(-0.1737)Met+(0.1231)Phe;0.793,0.815,0.732,0.713,0.728,0.784,0.755,0.745,(3.9077)+(0.0045)Gly+(-0.1437)His+(0.0026)Pro+(-0.0060)Val+(0.0868)Phe;0.793,0.824,0.779,0.755,0.794,0.797,0.799,0.786,(4.7329)+(-0.1146)His+(-0.0263)Cit+(0.0062)Pro+(-0.1907)Met+(0.1133)Phe

;0.793,0.819,0.754,0.741,0.760,0.840,0.718,0.765,(5.0794)+(0.0419)Ser+(-0.0572)Asn+(-0.1100)His+(-0.0287)Cit+(0.0012)Tyr;0.793,0.814,0.750,0.725,0.746,0.812,0.780,0.766,(7.3065)+(-0.0777)Asn+(-0.1207)His+(0.0257)Thr+(-0.0298)Val+(0.0578)Leu;0.793,0.822,0.826,0.843,0.819,0.834,0.788,0.821,(4.7824)+(0.0051)Gln+(-0.0024)Ala+(-0.1267)Met+(0.0225)Orn+(-0.1336)Trp;0.793,0.816,0.764,0.746,0.761,0.820,0.776,0.776,(3.8440)+(0.0079)Gln+(-0.1536)His+(0.0027)Pro+(-0.0007)Val+(0.0201)Orn;0.793,0.823,0.808,0.811,0.802,0.811,0.808,0.808,(6.5062)+(-0.0052)Ala+(0.0115)Pro+(-0.1178)Met+(0.0144)Leu+(-0.1333)Trp;0.793,0.824,0.764,0.751,0.773,0.830,0.732,0.771,(6.7177)+(-0.1208)His+(0.0232)Thr+(-0.0016)Ala+(-0.1391)Met+(0.0306)Orn;0.793,0.824,0.743,0.724,0.718,0.829,0.783,0.763,(-1.9124)+(0.0461)Ser+(-0.0077)Ala+(0.0075)Tyr+(-0.3231)Met+(0.0800)Ile;0.793,0.824,0.774,0.768,0.769,0.779,0.795,0.778,(5.0635)+(-0.0201)Tyr+(0.0098)Orn+(-0.0072)Lys+(0.0553)Ile+(-0.1542)Trp;0.793,0.823,0.805,0.810,0.812,0.797,0.781,0.800,(6.3996)+(-0.0655)Asn+(0.0040)Pro+(0.0197)Orn+(0.0030)Leu+(-0.1398)Trp;0.793,0.823,0.751,0.723,0.753,0.814,0.780,0.767,(5.3965)+(0.0057)Gly+(-0.1209)His+(-0.1715)Met+(0.0045)Lys+(0.0655)Ile;0.793,0.819,0.814,0.825,0.820,0.819,0.768,0.808,(6.9856)+(-0.0386)Asn+(-0.0025)Val+(-0.0780)Met+(0.0305)Orn+(-0.1231)Trp;0.793,0.818,0.724,0.683,0.726,0.802,0.771,0.745,(4.7566)+(0.0036)Gly+(-0.1437)His+(-0.0026)Pro+(0.0195)Orn+(0.0458)Ile;0.793,0.825,0.790,0.788,0.791,0.787,0.798,0.791,(3.7926)+(0.0039)Gln+(-0.0209)Arg+(-0.0010)Pro+(0.0523)Ile+(-0.1707)Trp;0.793,0.816,0.775,0.770,0.772,0.831,0.754,0.782,(4.2339)+(0.0101)Gln+(-0.1544)His+(0.0121)Thr+(-0.0241)Arg+(0.0034)Pro;0.793,0.823,0.771,0.760,0.774,0.768,0.797,0.775,(4.1457)+(0.0044)Thr+(-0.0026)Pro+(-0.0003)Orn+(0.0514)Ile+(-0.1743)Trp;0.793,0.821,0.818,0.819,0.809,0.857,0.805,0.823,(4.6959)+(-0.0402)Asn+(0.0124)Gln+(-0.1237)His+(-0.0347)Cit+(-0.0647)Met;0.793,0.824,0.

807,0.813,0.795,0.798,0.819,0.806,(4.7884)+(-0.0015)Gly+(0.0029)Gln+(-0.0225)Val+(0.0435)Leu+(-0.1559)Trp;0.793,0.819,0.817,0.828,0.809,0.822,0.805,0.816,(7.2918)+(-0.0424)Asn+(-0.0053)Ala+(-0.0040)Arg+(0.0112)Pro+(-0.1276)Trp;0.793,0.8

12,0.739,0.710,0.737,0.808,0.772,0.757,(6.3832)+(-0.1365)His+(0.0199)Thr+(-0.0227)Val+(-0.0064)Lys+(0.0503)Leu;0.793,0.822,0.804,0.803,0.792,0.851,0.797,0.811,(4.1323)+(0.0008)Gly+(0.0108)Gln+(-0.1378)His+(0.0125)Tyr+(-0.1172)Met;0.793,0.821,0.802,0.806,0.789,0.808,0.811,0.803,(5.7438)+(-0.0002)Gly+(-0.0073)Ala+(0.0096)Pro+(0.0114)Leu+(-0.1466)Trp;0.793,0.816,0.772,0.739,0.755,0.843,0.844,0.795,(6.1819)+(-0.1101)His+(-0.0077)Ala+(-0.0488)Cit+(0.0051)Arg+(0.0641)Ile;0.793,0.823,0.741,0.697,0.744,0.793,0.810,0.761,(4.5199)+(-0.0306)Asn+(-0.1405)His+(0.0177)Orn+(0.0275)Ile+(0.0498)Phe;0.793,0.823,0.812,0.822,0.816,0.807,0.781,0.806,(7.2454)+(-0.0272)Asn+(0.0097)Pro+(-0.0013)Val+(-0.0998)Met+(-0.1247)Trp;0.793,0.814,0.727,0.702,0.728,0.779,0.753,0.740,(3.7694)+(0.0048)Gly+(-0.1498)His+(0.0014)Pro+(-0.0008)Leu+(0.0785)Phe;0.793,0.823,0.799,0.811,0.788,0.821,0.777,0.799,(5.8757)+(0.0101)Thr+(-0.0069)Ala+(0.0096)Pro+(-0.0016)Lys+(-0.1445)Trp;0.793,0.818,0.768,0.760,0.761,0.818,0.770,0.777,(4.1584)+(0.0081)Gln+(-0.1485)His+(-0.0187)Tyr+(0.0016)Val+(0.0243)Orn;0.793,0.817,0.778,0.767,0.773,0.826,0.786,0.788,(3.6868)+(0.0112)Gln+(-0.1587)His+(-0.0187)Arg+(0.0026)Pro+(0.0112)Leu;0.792,0.820,0.726,0.690,0.733,0.785,0.768,0.744,(4.0090)+(-0.1579)His+(0.0121)Thr+(-0.0012)Pro+(0.0169)Orn+(0.0665)Phe;0.792,0.814,0.776,0.777,0.710,0.844,0.863,0.798,(4.0383)+(-0.1478)Asn+(0.0043)Gln+(-0.0506)Val+(0.1725)Ile+(-0.0157)Leu;0.792,0.823,0.779,0.766,0.780,0.794,0.801,0.785,(4.6635)+(0.0154)Asn+(-0.1230)His+(-0.0155)Tyr+(-0.1686)Met+(0.1213)Phe;0.792,0.822,0.808,0.820,0.813,0.806,0.771,0.802,(7.0191)+(-0.0281)Asn+(0.0011)Gly+(0.0094)Pro+(-0.1040)Met+(-0

.1263)Trp;0.792,0.824,0.816,0.829,0.818,0.815,0.778,0.810,(6.8408)+(-0.0740)Asn+(-0.0057)Val+(0.0271)Orn+(0.0053)Lys+(-0.1292)Trp;0.792,0.822,0.808,0.819,0.817,0.802,0.762,0.800,(7.1359)+(-0.0832)Asn+(-0.0010)Gly+(0.0179)Thr+(0.0019)Lys+(-0.1447)Trp;0.792,0.817,0.722,0.737,0.648,0.774,0.796,0.739,(0.9104)+(-0.0695)Tyr+(-0.0374)Val+(0.1852)Ile+(-0.0523)Leu+(0.0734)Phe;0.792,0.823,0.759,0.744,0.774,0.821,0.724,0.766,(6.7568)+(-0.0124)Asn+(-0.1209)His+(0.0241)Thr+(-0.1411)Met+(0.0296)Orn;0.792,0.821,0.740,0.704,0.749,0.810,0.762,0.756,(6.0820)+(-0.1192)His+(-0.0618)Cit+(-0.0358)Tyr+(0.0453)Orn+(0.0455)Ile;0.792,0.814,0.737,0.705,0.737,0.812,0.767,0.755,(5.6367)+(0.0019)Gly+(-0.1311)His+(-0.0230)Val+(0.0335)Orn+(0.0437)Leu;0.792,0.819,0.784,0.756,0.775,0.841,0.838,0.803,(6.8234)+(-0.0962)His+(-0.0059)Ala+(-0.0389)Cit+(-0.1079)Met+(0.0713)Ile;0.792,0.820,0.751,0.747,0.662,0.831,0.890,0.783,(1.2558)+(-0.0124)Ala+(0.0036)Pro+(-0.0550)Val+(0.1656)Ile+(0.0348)Phe;0.792,0.819,0.757,0.745,0.764,0.840,0.714,0.766,(5.1974)+(0.0422)Ser+(-0.0521)Asn+(-0.1095)His+(-0.0244)Cit+(-0.0055)Arg;0.792,0.818,0.803,0.806,0.826,0.813,0.740,0.796,(6.8422)+(0.0024)Gly+(-0.0732)Cit+(0.0046)Val+(0.0009)Lys+(-0.1529)Trp;0.792,0.817,0.743,0.757,0.699,0.788,0.762,0.752,(1.2046)+(-0.0865)Cit+(-0.0793)Tyr+(0.1745)Ile+(-0.1027)Leu+(0.0999)Phe;0.792,0.825,0.790,0.792,0.792,0.803,0.774,0.790,(5.8488)+(-0.0167)Arg+(-0.0278)Val+(0.0297)Orn+(0.0495)Leu+(-0.1455)Trp;0.792,0.822,0.803,0.819,0.809,0.800,0.746,0.794,(7.1456)+(-0.0827)Asn+(0.0182)Thr+(-0.0092)Tyr+(0.0026)Lys+(-0.1412)Trp;0.792,0.817,0.713,0.671,0.722,0.789,0.749,0.733,(3.2816)+(0.0068)Gly+(-0.1443)His+(-0.0487)Cit+(0.0377)Ile+(0.0619)Phe;0.792,0.817,0.749,0.753,0.662,0.827,0.865,0.777,(3.2365)+(-0.0106)Ala+(0.0067)Pro+(-0.0300)Tyr+(-0.0504)Val+(0.1655)Ile;0.792,0.816,0.790,0.787,0.773,0.838,0.803,0.800,(4.1749)+(0.0096)Gln+(-0.1484)His+(-0.0029)Ala+(-0.0085)Tyr+(0.0053)Val;0.79

2,0.817,0.781,0.783,0.762,0.835,0.779,0.790,(4.5736)+(0.0082)Gln+(-0.1438)His+(0.0100)Thr+(-0.0024)Ala+(-0.0105)Tyr;0.792,0.821,0.787,0.804,0.786,0.790,0.740,0.780,(5.5468)+(0.0058)Pro+(-0.0181)Tyr+(-0.0043)Val+(0.0211)Orn+(-0.1380)Trp;0.792,0.818,0.759,0.745,0.707,0.841,0.848,0.785,(5.1093)+(-0.1386)Asn+(-0.0583)Val+(0.0324)Orn+(-0.0023)Lys+(0.1643)Ile;0.792,0.813,0.751,0.726,0.738,0.825,0.792,0.770,(6.2821)+(-0.1341)His+(0.0184)Thr+(-0.0039)Ala+(-0.0207)Val+(0.0480)Leu;0.792,0.820,0.812,0.822,0.819,0.811,0.773,0.806,(6.6535)+(-0.0404)Asn+(-0.0984)Met+(0.0246)Orn+(0.0065)Lys+(-0.1330)Trp;0.792,0.818,0.735,0.720,0.735,0.827,0.706,0.747,(4.4186)+(0.0337)Ser+(-0.1317)His+(0.0056)Thr+(-0.0071)Tyr+(-0.0015)Lys;0.792,0.828,0.764,0.788,0.760,0.799,0.684,0.758,(-2.5998)+(0.0459)Ser+(-0.0172)Arg+(-0.0127)Val+(-0.3306)Met+(0.1332)Phe;0.792,0.818,0.778,0.767,0.779,0.834,0.766,0.786,(4.0438)+(0.0102)Gln+(-0.1519)His+(-0.0212)Arg+(0.0243)Orn+(0.0011)Lys;0.792,0.816,0.770,0.738,0.754,0.840,0.841,0.793,(6.2566)+(-0.1071)His+(-0.0088)Ala+(-0.0470)Cit+(0.0055)Pro+(0.0598)Ile;0.792,0.826,0.812,0.802,0.825,0.836,0.796,0.815,(8.7685)+(-0.0717)His+(-0.0367)Cit+(0.0040)Arg+(0.0202)Tyr+(-0.1086)Trp;0.792,0.824,0.795,0.776,0.801,0.819,0.815,0.802,(5.1606)+(-0.1130)His+(-0.0024)Ala+(-0.0294)Cit+(-0.1530)Met+(0.1175)Phe;0.792,0.823,0.828,0.828,0.844,0.833,0.794,0.825,(8.0760)+(-0.0460)Asn+(-0.0659)Cit+(0.0076)Arg+(0.0118)Tyr+(-0.1393)Trp;0.792,0.824,0.802,0.797,0.793,0.844,0.802,0.809,(3.9056)+(0.0113)Gln+(-0.1442)His+(0.0073)Tyr+(0.0050)Val+(-0.1211)Met;0.792,0.823,0.797,0.805,0.803,0.794,0.762,0.791,(5.9161)+(0.0081)Pro+(-0.1579)Met+(0.0186)Orn+(0.0056)Lys+(-0.1360)Trp;0.792,0.821,0.797,0.812,0.798,0.791,0.758,0.790,(4.5679)+(0.0022)Gln+(0.0048)Thr+(0.0042)Pro+(-0.0034)Val+(-0.1535)Trp;0.792,0.821,0.797,0.807,0.800,0.789,0.767,0.791,(5.5145)+(-0.0018)Gly+(0.0045)Pro+(-0.0051)Val+(0.0196)Orn+(-0.1443)Trp;0.792,0.820,0.721,

0.687,0.723,0.788,0.760,0.740,(3.6262)+(0.0059)Gly+(-0.1488)His+(-0.0125)Arg+(0.0344)Ile+(0.0612)Phe;0.792,0.819,0.752,0.746,0.664,0.837,0.888,0.784,(1.0968)+(-0.0118)Ala+(-0.0555)Val+(0.0104)Orn+(0.1662)Ile+(0.0336)Phe;0.792,0.819,0.817,0.822,0.835,0.815,0.770,0.810,(7.3486)+(-0.0594)Cit+(0.0039)Val+(-0.0800)Met+(0.0067)Lys+(-0.1430)Trp;0.792,0.818,0.752,0.733,0.755,0.831,0.739,0.764,(4.6579)+(0.0441)Ser+(-0.0044)Gly+(-0.1262)His+(-0.0140)Arg+(0.0014)Lys;0.792,0.825,0.767,0.749,0.768,0.852,0.750,0.780,(4.4234)+(0.0461)Ser+(-0.0038)Gly+(-0.1148)His+(0.0160)Tyr+(-0.1245)Met;0.792,0.814,0.773,0.761,0.764,0.824,0.788,0.784,(3.9230)+(0.0093)Gln+(-0.1532)His+(0.0033)Pro+(0.0020)Val+(-0.0024)Lys;0.792,0.822,0.800,0.807,0.808,0.804,0.764,0.796,(6.0938)+(0.0075)Pro+(0.0084)Tyr+(-0.1534)Met+(0.0210)Orn+(-0.1326)Trp;0.792,0.825,0.773,0.759,0.774,0.787,0.798,0.779,(4.6527)+(-0.1176)His+(0.0072)Pro+(-0.0223)Tyr+(-0.1711)Met+(0.1180)Phe;0.792,0.817,0.719,0.695,0.733,0.783,0.707,0.729,(4.0181)+(0.0045)Gly+(-0.1573)His+(0.0176)Thr+(-0.0204)Arg+(0.0828)Phe;0.792,0.822,0.805,0.813,0.818,0.801,0.761,0.798,(6.6985)+(-0.0556)Asn+(-0.0103)Arg+(0.0048)Pro+(0.0238)Orn+(-0.1361)Trp;0.792,0.824,0.813,0.815,0.820,0.834,0.780,0.812,(9.3092)+(-0.0069)Asn+(-0.0644)His+(-0.0315)Cit+(0.0061)Met+(-0.0987)Trp;0.792,0.820,0.751,0.738,0.750,0.835,0.725,0.762,(4.7572)+(0.0407)Ser+(-0.0628)Asn+(-0.1178)His+(-0.0027)Tyr+(0.0033)Lys;0.792,0.819,0.775,0.752,0.785,0.844,0.764,0.786,(4.4051)+(0.0087)Gln+(-0.1376)His+(-0.0681)Cit+(0.0440)Orn+(-0.0066)Lys;0.792,0.817,0.773,0.765,0.764,0.821,0.777,0.782,(4.3106)+(-0.0009)Gly+(0.0082)Gln+(-0.1457)His+(-0.0182)Tyr+(0.0258)Orn;0.792,0.821,0.748,0.711,0.745,0.793,0.820,0.767,(4.7949)+(-0.0187)Asn+(-0.1359)His+(-0.0055)Lys+(0.0350)Ile+(0.0568)Phe;0.792,0.816,0.747,0.740,0.664,0.833,0.877,0.778,(3.2269)+(-0.0019)Gln+(-0.0115)Ala+(0.0056)Pro+(-0.0534)Val+(0.1703)Ile;0.792,0.822,0.800,0.811,0.805,0.79

6,0.767,0.795,(6.6398)+(-0.0617)Asn+(0.0053)Pro+(-0.0127)Tyr+(0.0226)Orn+(-0.1324)Trp;0.792,0.818,0.746,0.731,0.738,0.841,0.730,0.760,(4.3876)+(0.0356)Ser+(-0.1272)His+(-0.0019)Ala+(-0.0002)Tyr+(0.0001)Lys;0.792,0.823,0.813,0.810,0.831,0.809,0.786,0.809,(7.1963)+(-0.0612)Cit+(-0.0879)Met+(0.0041)Lys+(0.0176)Leu+(-0.1486)Trp;0.792,0.815,0.728,0.703,0.741,0.827,0.692,0.741,(4.1321)+(0.0401)Ser+(-0.1276)His+(-0.0208)Cit+(-0.0132)Arg+(0.0076)Pro;0.792,0.824,0.762,0.754,0.765,0.851,0.713,0.771,(4.8797)+(0.0398)Ser+(-0.1073)His+(-0.0002)Ala+(-0.0269)Cit+(-0.0909)Met;0.792,0.820,0.800,0.800,0.790,0.843,0.787,0.805,(4.1701)+(0.0121)Gln+(-0.1340)His+(-0.0133)Arg+(0.0082)Pro+(-0.1170)Met;0.792,0.818,0.801,0.815,0.807,0.825,0.734,0.795,(6.2378)+(0.0144)Thr+(-0.0048)Ala+(-0.0206)Arg+(0.0236)Orn+(-0.1454)Trp;0.792,0.816,0.780,0.785,0.772,0.835,0.745,0.784,(4.6966)+(0.0100)Gln+(-0.1471)His+(0.0157)Thr+(-0.0238)Arg+(-0.0149)Tyr;0.792,0.813,0.752,0.746,0.671,0.838,0.879,0.783,(3.1111)+(-0.0016)Gln+(0.0008)Thr+(-0.0104)Ala+(-0.0533)Val+(0.1739)Ile;0.792,0.816,0.733,0.709,0.732,0.790,0.754,0.746,(3.9823)+(0.0050)Gly+(-0.1478)His+(-0.0031)Lys+(0.0013)Leu+(0.0807)Phe;0.792,0.815,0.774,0.742,0.759,0.840,0.841,0.795,(6.4441)+(-0.0038)Asn+(-0.1080)His+(-0.0074)Ala+(-0.0441)Cit+(0.0634)Ile;0.792,0.822,0.735,0.739,0.736,0.757,0.708,0.735,(-3.6826)+(0.0519)Ser+(-0.0067)Gly+(0.0136)Thr+(-0.4260)Met+(0.1059)Phe;0.792,0.816,0.775,0.764,0.764,0.821,0.797,0.786,(3.9325)+(0.0097)Gln+(-0.1546)His+(-0.0149)Tyr+(-0.0034)Lys+(0.0166)Leu;0.792,0.820,0.800,0.796,0.794,0.844,0.793,0.807,(4.1863)+(0.0115)Gln+(-0.1273)His+(-0.0346)Cit+(0.0085)Pro+(-0.1303)Met;0.792,0.818,0.806,0.806,0.797,0.850,0.794,0.811,(4.6482)+(-0.0631)Asn+(0.0017)Gly+(0.0118)Gln+(-0.1288)His+(-0.0384)Cit;0.792,0.817,0.755,0.726,0.742,0.821,0.809,0.774,(5.6881)+(-0.0996)His+(-0.0416)Cit+(-0.0007)Lys+(0.1164)Ile+(-0.0489)Leu;0.792,0.826,0.769,0.761,0.780,0.774,0.762,0.

769,(4.8175)+(0.0112)Thr+(-0.0236)Arg+(0.0050)Orn+(0.0491)Ile+(-0.1715)Trp;0.792,0.823,0.813,0.815,0.820,0.833,0.780,0.812,(9.2230)+(-0.0654)His+(-0.0002)Ala+(-0.0313)Cit+(0.0025)Met+(-0.0985)Trp;0.792,0.813,0.718,0.710,0.665,0.822,0.775,0.743,(0.6120)+(0.0273)Ser+(-0.0378)Arg+(-0.0019)Pro+(-0.0564)Val+(0.1660)Ile;0.792,0.824,0.773,0.760,0.776,0.787,0.793,0.779,(4.7586)+(0.0094)Thr+(-0.0031)Pro+(-0.0109)Lys+(0.0585)Ile+(-0.1658)Trp;0.792,0.824,0.837,0.853,0.831,0.822,0.819,0.831,(5.2350)+(-0.0898)Asn+(-0.0006)Gly+(0.0064)Gln+(0.0038)Lys+(-0.1423)Trp;0.792,0.818,0.754,0.728,0.741,0.802,0.814,0.771,(4.9506)+(-0.1349)His+(-0.0199)Val+(-0.0024)Lys+(0.0313)Leu+(0.0758)Phe;0.792,0.819,0.735,0.720,0.747,0.837,0.678,0.745,(4.7341)+(0.0358)Ser+(-0.1287)His+(0.0095)Thr+(-0.0226)Cit+(-0.0139)Arg;0.792,0.824,0.806,0.812,0.814,0.795,0.780,0.800,(6.4096)+(-0.0700)Asn+(0.0043)Pro+(0.0193)Orn+(0.0026)Lys+(-0.1397)Trp;0.792,0.818,0.736,0.701,0.742,0.801,0.770,0.754,(6.0874)+(-0.0331)Asn+(-0.1361)His+(0.0193)Thr+(-0.0120)Arg+(0.0434)Ile;0.792,0.816,0.783,0.782,0.758,0.839,0.797,0.794,(4.3911)+(0.0089)Gln+(-0.1376)His+(-0.0044)Ala+(0.0088)Pro+(-0.0122)Tyr;0.792,0.815,0.762,0.755,0.687,0.842,0.876,0.790,(3.3295)+(-0.0097)Ala+(-0.0421)Val+(-0.0088)Lys+(0.1930)Ile+(-0.0277)Leu;0.792,0.820,0.808,0.819,0.796,0.815,0.801,0.808,(6.1806)+(-0.0005)Gly+(-0.0064)Ala+(0.0109)Pro+(-0.0003)Val+(-0.1370)Trp;0.792,0.817,0.784,0.772,0.778,0.832,0.792,0.794,(3.7448)+(0.0114)Gln+(-0.1588)His+(-0.0179)Arg+(-0.0003)Lys+(0.0129)Leu;0.792,0.811,0.717,0.703,0.673,0.826,0.766,0.742,(0.7914)+(0.0268)Ser+(-0.0397)Cit+(-0.0305)Arg+(-0.0537)Val+(0.1604)Ile;0.792,0.826,0.793,0.791,0.790,0.792,0.803,0.794,(3.9463)+(0.0042)Gln+(-0.0179)Arg+(-0.0059)Lys+(0.0549)Ile+(-0.1660)Trp;0.792,0.826,0.831,0.828,0.849,0.836,0.795,0.827,(7.4848)+(-0.0624)Cit+(0.0069)Arg+(0.0252)Tyr+(-0.0965)Met+(-0.1391)Trp;0.792,0.810,0.7

55,0.752,0.677,0.838,0.871,0.784,(2.9919)+(-0.0011)Gln+(-0.0102)Ala+(-0.0425)Val+(0.1944)Ile+(-0.0322)Leu;0.792,0.824,0.844,0.858,0.838,0.847,0.818,0.840,(4.7040)+(0.0061)Gln+(-0.0020)Ala+(0.0232)Tyr+(-0.1512)Met+(-0.1387)Trp;0.792,0.821,0.810,0.816,0.796,0.854,0.793,0.815,(4.4634)+(0.0121)Gln+(-0.1344)His+(-0.0003)Ala+(-0.0135)Arg+(-0.0770)Met;0.792,0.824,0.765,0.786,0.747,0.802,0.721,0.764,(-2.8283)+(0.0427)Ser+(-0.0019)Ala+(-0.0118)Val+(-0.3397)Met+(0.1287)Phe;0.792,0.818,0.772,0.764,0.765,0.823,0.772,0.781,(4.2940)+(0.0081)Gln+(-0.1452)His+(-0.0161)Tyr+(0.0262)Orn+(-0.0017)Lys;0.792,0.820,0.787,0.785,0.741,0.854,0.839,0.805,(3.3659)+(0.0018)Gly+(-0.0079)Ala+(-0.1988)Met+(0.1794)Ile+(-0.0795)Leu;0.792,0.817,0.771,0.771,0.754,0.787,0.797,0.777,(5.4938)+(-0.0312)Asn+(-0.1194)His+(-0.0359)Tyr+(-0.0053)Val+(0.1088)Phe;0.792,0.813,0.770,0.758,0.754,0.822,0.801,0.784,(4.0618)+(0.0088)Gln+(-0.1499)His+(-0.0131)Tyr+(-0.0142)Val+(0.0363)Leu;0.792,0.824,0.760,0.750,0.771,0.819,0.720,0.765,(6.8670)+(-0.1143)His+(0.0273)Thr+(0.0083)Pro+(-0.0052)Tyr+(-0.1682)Met;0.792,0.822,0.751,0.726,0.768,0.809,0.738,0.761,(6.4509)+(-0.1348)His+(0.0329)Thr+(-0.2092)Met+(0.0013)Lys+(0.0249)Leu;0.792,0.822,0.757,0.742,0.749,0.827,0.761,0.770,(4.2284)+(0.0065)Gly+(-0.1320)His+(-0.0050)Ala+(-0.0469)Cit+(0.0967)Phe;0.792,0.816,0.760,0.731,0.757,0.823,0.797,0.777,(6.7826)+(-0.0501)Asn+(-0.1115)His+(-0.0289)Val+(0.0398)Orn+(0.0509)Leu;0.792,0.827,0.815,0.815,0.821,0.835,0.788,0.815,(8.9904)+(-0.0652)His+(-0.0356)Cit+(0.0071)Arg+(-0.0098)Met+(-0.0996)Trp;0.792,0.822,0.756,0.743,0.759,0.840,0.719,0.766,(5.0383)+(0.0422)Ser+(-0.0495)Asn+(-0.1153)His+(-0.0099)Arg+(0.0019)Tyr;0.792,0.821,0.726,0.696,0.729,0.790,0.749,0.741,(3.5707)+(0.0042)Gly+(-0.1514)His+(0.0204)Orn+(-0.0029)Leu+(0.0739)Phe;0.792,0.826,0.771,0.762,0.763,0.848,0.760,0.783,(3.6546)+(0.0180)Thr+(-0.0752)Cit+(-0.2714)Met+(0.1668)Ile+(-0.0767)Leu;0.792,0.819,0.828,0.835,

0.836,0.836,0.784,0.823,(7.7819)+(-0.0014)Ala+(-0.0612)Cit+(0.0083)Arg+(-0.0487)Met+(-0.1306)Trp;0.792,0.820,0.813,0.826,0.805,0.818,0.791,0.810,(7.0065)+(-0.0044)Ala+(-0.0025)Arg+(0.0129)Pro+(-0.1002)Met+(-0.1241)Trp;0.792,0.820,0.726,0.691,0.732,0.784,0.767,0.743,(3.9792)+(-0.1562)His+(0.0116)Thr+(0.0172)Orn+(-0.0031)Leu+(0.0688)Phe;0.792,0.816,0.731,0.696,0.735,0.801,0.766,0.750,(5.7343)+(-0.1431)His+(0.0173)Thr+(-0.0140)Arg+(-0.0029)Pro+(0.0475)Ile;0.792,0.826,0.772,0.764,0.783,0.774,0.770,0.773,(5.0002)+(-0.0008)Gly+(0.0125)Thr+(-0.0228)Arg+(0.0502)Ile+(-0.1720)Trp;0.792,0.825,0.759,0.724,0.763,0.817,0.804,0.777,(6.0624)+(-0.1173)His+(-0.0116)Tyr+(-0.1319)Met+(0.0258)Orn+(0.0560)Ile;0.792,0.819,0.818,0.830,0.816,0.824,0.789,0.815,(6.8490)+(-0.0550)Asn+(0.0001)Gly+(-0.0034)Ala+(0.0276)Orn+(-0.1287)Trp;0.792,0.818,0.732,0.696,0.737,0.800,0.767,0.750,(5.8366)+(-0.1392)His+(0.0178)Thr+(-0.0120)Arg+(-0.0053)Lys+(0.0471)Ile;0.792,0.818,0.794,0.793,0.775,0.847,0.797,0.803,(4.3789)+(0.0108)Gln+(-0.1407)His+(-0.0042)Ala+(-0.0173)Arg+(0.0080)Pro;0.791,0.820,0.760,0.755,0.733,0.796,0.806,0.772,(4.9941)+(-0.1266)His+(-0.0049)Ala+(0.0083)Pro+(-0.0389)Tyr+(0.0968)Phe;0.791,0.822,0.793,0.804,0.797,0.793,0.753,0.787,(5.3153)+(0.0045)Pro+(-0.0046)Val+(0.0192)Orn+(-0.0015)Lys+(-0.1435)Trp;0.791,0.821,0.746,0.745,0.764,0.775,0.691,0.744,(-2.7558)+(0.0535)Ser+(-0.0033)Gly+(-0.0773)Cit+(-0.3638)Met+(0.1167)Phe;0.791,0.821,0.818,0.819,0.801,0.824,0.842,0.822,(7.2282)+(-0.0530)Asn+(-0.0030)Ala+(-0.0249)Val+(0.0551)Leu+(-0.1305)Trp;0.791,0.823,0.804,0.797,0.826,0.801,0.780,0.801,(6.9998)+(-0.0721)Cit+(0.0026)Tyr+(-0.0016)Lys+(0.0168)Leu+(-0.1591)Trp;0.791,0.822,0.808,0.824,0.821,0.817,0.730,0.798,(7.6088)+(-0.0733)Asn+(0.0220)Thr+(-0.0122)Arg+(-0.0024)Val+(-0.1377)Trp;0.791,0.816,0.792,0.776,0.777,0.848,0.822,0.806,(3.9601)+(0.0102)Gln+(-0.1468)His+(-0.0047)Ala+(-0.0413)Cit+(0.0193)Leu;0.791,0.813,0.771,0.760,0.760,0.

814,0.792,0.782,(3.8590)+(0.0000)Gly+(0.0093)Gln+(-0.1558)His+(-0.017
1)Tyr+(0.0152)Leu;0.791,0.814,0.776,0.775,0.761,0.823,0.776,0.784,(4.
5750)+(-0.0016)Gly+(0.0084)Gln+(-0.1468)His+(0.0106)Thr+(-0.0172)Tyr;
0.791,0.824,0.785,0.765,0.796,0.799,0.805,0.791,(4.6701)+(-0.1222)His
+(-0.0262)Cit+(-0.1910)Met+(0.0072)Lys+(0.1152)Phe;0.791,0.822,0.801,
0.802,0.819,0.805,0.762,0.797,(7.0447)+(-0.0705)Cit+(0.0087)Pro+(-0.0
051)Tyr+(0.0021)Lys+(-0.1505)Trp;0.791,0.818,0.777,0.773,0.757,0.803,
0.809,0.786,(5.4884)+(-0.0231)Asn+(-0.1231)His+(-0.0028)Ala+(-0.0339)
Tyr+(0.1021)Phe;0.791,0.816,0.780,0.778,0.776,0.835,0.754,0.786,(4.34
01)+(0.0102)Gln+(-0.1543)His+(0.0129)Thr+(-0.0244)Arg+(0.0013)Lys;0.7
91,0.814,0.764,0.764,0.701,0.827,0.849,0.785,(5.6844)+(-0.1111)Asn+(0
.0008)Pro+(-0.0239)Tyr+(-0.0536)Val+(0.1643)Ile;0.791,0.821,0.801,0.8
07,0.788,0.806,0.811,0.803,(5.7421)+(-0.0073)Ala+(0.0096)Pro+(-0.0006
)Lys+(0.0117)Leu+(-0.1462)Trp;0.791,0.821,0.805,0.804,0.796,0.849,0.7
93,0.811,(4.0789)+(0.0125)Gln+(-0.1430)His+(-0.0134)Arg+(0.0053)Val+(
-0.0938)Met;0.791,0.824,0.787,0.776,0.783,0.804,0.811,0.793,(4.9760)+
(-0.1184)His+(-0.0015)Ala+(-0.0151)Tyr+(-0.1458)Met+(0.1200)Phe;0.791
,0.824,0.788,0.783,0.788,0.794,0.797,0.791,(5.6755)+(-0.0483)Asn+(0.0
017)Gly+(-0.0090)Arg+(0.0524)Ile+(-0.1539)Trp;0.791,0.822,0.793,0.786
,0.794,0.790,0.812,0.796,(5.9048)+(-0.0449)Asn+(-0.0085)Arg+(0.0002)P
ro+(0.0514)Ile+(-0.1545)Trp;0.791,0.816,0.781,0.779,0.779,0.837,0.753
,0.787,(4.4758)+(0.0102)Gln+(-0.1489)His+(0.0132)Thr+(-0.0230)Cit+(-0
.0200)Arg;0.791,0.823,0.811,0.812,0.803,0.818,0.818,0.813,(6.9798)+(-
0.0647)Asn+(0.0015)Gly+(-0.0262)Val+(0.0537)Leu+(-0.1321)Trp;0.791,0.
823,0.803,0.802,0.822,0.808,0.764,0.799,(7.1674)+(-0.0710)Cit+(0.0010
)Arg+(0.0087)Pro+(-0.0037)Tyr+(-0.1487)Trp;0.791,0.818,0.745,0.730,0.
747,0.795,0.747,0.755,(4.4539)+(-0.0390)Asn+(0.0064)Gly+(-0.1379)His+
(-0.0077)Arg+(0.0877)Phe;0.791,0.827,0.771,0.762,0.779,0.786,0.766,0.

773,(5.1426)+(0.0138)Thr+(-0.0196)Arg+(-0.0069)Lys+(0.0546)Ile+(-0.1667)Trp;0.791,0.824,0.760,0.722,0.766,0.817,0.804,0.777,(5.9090)+(-0.1174)His+(0.0008)Pro+(-0.1515)Met+(0.0237)Orn+(0.0547)Ile;0.791,0.821,0.782,0.761,0.794,0.803,0.800,0.789,(4.7324)+(0.0184)Asn+(-0.1198)His+(-0.0264)Cit+(-0.1855)Met+(0.1184)Phe;0.791,0.822,0.759,0.752,0.761,0.852,0.708,0.768,(4.8457)+(0.0406)Ser+(-0.1128)His+(0.0002)Ala+(-0.0087)Arg+(-0.0840)Met;0.791,0.821,0.804,0.804,0.828,0.815,0.743,0.797,(6.7789)+(0.0026)Gly+(-0.0748)Cit+(0.0055)Tyr+(0.0046)Val+(-0.1548)Trp;0.791,0.819,0.764,0.742,0.746,0.813,0.822,0.781,(4.8196)+(-0.1334)His+(-0.0064)Ala+(0.0066)Pro+(0.0013)Leu+(0.0759)Phe;0.791,0.818,0.721,0.673,0.735,0.783,0.778,0.742,(4.0936)+(-0.1498)His+(0.0137)Thr+(-0.0406)Cit+(0.0325)Ile+(0.0534)Phe;0.791,0.824,0.743,0.757,0.737,0.785,0.686,0.741,(-3.5335)+(0.0411)Ser+(0.0133)Thr+(-0.0041)Ala+(-0.3973)Met+(0.1118)Phe;0.791,0.821,0.782,0.800,0.782,0.787,0.731,0.775,(5.6892)+(0.0093)Thr+(0.0060)Pro+(-0.0189)Tyr+(-0.0026)Val+(-0.1452)Trp;0.791,0.822,0.779,0.765,0.781,0.794,0.804,0.786,(4.8904)+(-0.1215)His+(-0.0174)Tyr+(-0.1568)Met+(0.0042)Leu+(0.1160)Phe;0.791,0.818,0.769,0.767,0.746,0.799,0.803,0.779,(5.1244)+(-0.1267)His+(-0.0025)Ala+(-0.0339)Tyr+(-0.0029)Val+(0.1048)Phe;0.791,0.816,0.733,0.709,0.748,0.824,0.700,0.745,(4.1426)+(0.0403)Ser+(-0.1336)His+(-0.0249)Cit+(-0.0102)Arg+(0.0061)Val;0.791,0.821,0.760,0.751,0.778,0.820,0.702,0.763,(7.2182)+(-0.1135)His+(0.0304)Thr+(-0.0118)Arg+(0.0081)Pro+(-0.1691)Met;0.791,0.821,0.772,0.754,0.754,0.812,0.828,0.787,(5.2496)+(-0.0287)Asn+(-0.1252)His+(-0.0062)Ala+(0.0070)Pro+(0.0799)Phe;0.791,0.817,0.745,0.738,0.731,0.766,0.778,0.754,(4.8338)+(-0.1325)His+(0.0048)Pro+(-0.0457)Tyr+(-0.0012)Leu+(0.0974)Phe;0.791,0.817,0.749,0.744,0.731,0.770,0.780,0.756,(4.8501)+(-0.1280)His+(0.0057)Pro+(-0.0434)Tyr+(-0.0053)Val+(0.1033)Phe;0.791,0.812,0.772,0.752,0.764,0.827,0.803,0.787,(3.9297)+(0

.0094)Gln+(-0.1493)His+(-0.0329)Cit+(-0.0135)Val+(0.0347)Leu;0.791,0.818,0.817,0.819,0.801,0.859,0.818,0.824,(4.9093)+(-0.0572)Asn+(0.0120)Gln+(-0.1251)His+(-0.0020)Ala+(-0.0371)Cit;0.791,0.814,0.767,0.763,0.755,0.816,0.765,0.775,(4.2151)+(0.0083)Gln+(-0.1530)His+(0.0095)Thr+(-0.0193)Tyr+(0.0039)Val;0.791,0.823,0.834,0.846,0.830,0.817,0.820,0.828,(5.0528)+(-0.0851)Asn+(-0.0005)Gly+(0.0064)Gln+(0.0076)Leu+(-0.1456)Trp;0.791,0.823,0.761,0.722,0.766,0.820,0.806,0.779,(5.8823)+(-0.1188)His+(-0.1530)Met+(0.0233)Orn+(0.0014)Lys+(0.0551)Ile;0.791,0.822,0.810,0.812,0.806,0.808,0.814,0.810,(6.4123)+(-0.0263)Val+(-0.1469)Met+(0.0074)Lys+(0.0566)Leu+(-0.1343)Trp;0.791,0.816,0.802,0.802,0.787,0.841,0.807,0.809,(4.5686)+(-0.0621)Asn+(0.0111)Gln+(-0.1368)His+(-0.0081)Tyr+(0.0036)Lys;0.791,0.825,0.784,0.785,0.790,0.802,0.753,0.783,(5.9845)+(0.0178)Thr+(-0.0208)Arg+(-0.0265)Val+(0.0511)Leu+(-0.1577)Trp;0.791,0.817,0.750,0.738,0.750,0.842,0.718,0.762,(4.7147)+(0.0383)Ser+(-0.1234)His+(-0.0016)Ala+(-0.0132)Arg+(0.0024)Tyr;0.791,0.813,0.758,0.753,0.674,0.840,0.888,0.789,(2.7151)+(-0.0015)Gly+(-0.0001)Thr+(-0.0106)Ala+(-0.0530)Val+(0.1719)Ile;0.791,0.823,0.803,0.796,0.825,0.797,0.778,0.799,(6.7998)+(-0.0741)Cit+(0.0033)Arg+(0.0001)Tyr+(0.0161)Leu+(-0.1608)Trp;0.791,0.820,0.803,0.804,0.826,0.814,0.744,0.797,(6.7877)+(0.0024)Gly+(-0.0758)Cit+(0.0031)Arg+(0.0049)Val+(-0.1536)Trp;0.791,0.816,0.808,0.806,0.797,0.847,0.808,0.814,(4.6236)+(-0.0646)Asn+(0.0120)Gln+(-0.1316)His+(-0.

0361)Cit+(0.0024)Lys;0.791,0.815,0.765,0.767,0.702,0.828,0.847,0.786,(5.6393)+(-0.1163)Asn+(-0.0247)Tyr+(-0.0542)Val+(0.0028)Lys+(0.1650)Ile;0.791,0.824,0.793,0.791,0.768,0.861,0.803,0.806,(1.7862)+(0.0064)Gln+(-0.0790)Cit+(-0.2523)Met+(0.1748)Ile+(-0.0818)Leu;0.791,0.823,0.798,0.795,0.786,0.838,0.798,0.805,(3.8681)+(0.0109)Gln+(-0.1439)His+(0.0047)Val+(-0.1212)Met+(0.0040)Lys;0.791,0.812,0.774,0.764,0.763,0.82

4,0.785,0.784,(4.0140)+(0.0000)Gly+(0.0091)Gln+(-0.1504)His+(0.0039)Pro+(-0.0017)Lys;0.791,0.811,0.765,0.754,0.755,0.810,0.786,0.776,(3.8309)+(0.0091)Gln+(-0.1540)His+(0.0036)Pro+(-0.0213)Tyr+(0.0135)Leu;0.791,0.809,0.731,0.703,0.728,0.803,0.759,0.748,(5.8761)+(0.0013)Gly+(-0.1400)His+(0.0163)Thr+(-0.0216)Val+(0.0461)Leu;0.791,0.820,0.829,0.831,0.839,0.839,0.794,0.826,(7.4505)+(-0.0031)Ala+(-0.0665)Cit+(0.0037)Arg+(0.0140)Tyr+(-0.1418)Trp;0.791,0.817,0.789,0.787,0.773,0.849,0.783,0.798,(4.6526)+(0.0087)Gln+(-0.1386)His+(0.0104)Thr+(-0.0032)Ala+(-0.0390)Cit;0.791,0.821,0.799,0.807,0.785,0.805,0.807,0.801,(5.8141)+(-0.0070)Ala+(0.0100)Pro+(-0.0063)Tyr+(0.0117)Leu+(-0.1444)Trp;0.791,0.820,0.812,0.813,0.804,0.848,0.799,0.816,(4.7274)+(-0.0534)Asn+(0.0128)Gln+(-0.1311)His+(-0.0291)Cit+(-0.0100)Arg;0.791,0.823,0.757,0.740,0.773,0.821,0.721,0.764,(6.5852)+(-0.1242)His+(0.0239)Thr+(0.0010)Val+(-0.1522)Met+(0.0288)Orn;0.791,0.820,0.768,0.761,0.747,0.801,0.807,0.779,(5.1388)+(-0.1304)His+(-0.0031)Ala+(-0.0349)Tyr+(0.0032)Leu+(0.0971)Phe;0.791,0.823,0.785,0.776,0.782,0.799,0.805,0.790,(4.9134)+(-0.1156)His+(-0.0145)Tyr+(-0.0042)Val+(-0.1524)Met+(0.1261)Phe;0.791,0.819,0.826,0.829,0.837,0.834,0.790,0.823,(7.3069)+(-0.0031)Ala+(-0.0641)Cit+(0.0126)Tyr+(0.0035)Lys+(-0.1442)Trp;0.791,0.823,0.781,0.768,0.780,0.796,0.806,0.788,(4.8196)+(-0.1207)His+(0.0022)Arg+(-0.0171)Tyr+(-0.1560)Met+(0.1202)Phe;0.791,0.822,0.811,0.823,0.810,0.807,0.782,0.806,(7.0362)+(-0.0587)Asn+(0.0007)Gly+(0.0074)Pro+(-0.0031)Val+(-0.1294)Trp;0.791,0.818,0.760,0.738,0.746,0.815,0.807,0.777,(6.0103)+(-0.0120)Asn+(-0.1017)His+(-0.0102)Arg+(0.1150)Ile+(-0.0498)Leu;0.791,0.827,0.708,0.694,0.704,0.766,0.708,0.718,(-4.9611)+(0.0512)Ser+(-0.0177)Tyr+(-0.4188)Met+(0.0548)Ile+(0.0919)Phe;0.791,0.822,0.784,0.761,0.796,0.804,0.804,0.791,(4.9708)+(-0.1174)His+(-0.0267)Cit+(-0.1736)Met+(0.0041)Leu+(0.1122)Phe;0.791,0.824,0.833,0.847,0.832,0.827,0.804,0.828

,(4.4188)+(0.0057)Gln+(0.0204)Tyr+(-0.1773)Met+(0.0055)Lys+(-0.1450)Trp;0.791,0.820,0.724,0.692,0.728,0.788,0.750,0.740,(3.5512)+(0.0043)Gly+(-0.1527)His+(0.0002)Pro+(0.0195)Orn+(0.0706)Phe;0.791,0.820,0.832,0.850,0.826,0.822,0.801,0.825,(4.7305)+(-0.0012)Gly+(0.0059)Gln+(-0.1434)Met+(0.0056)Lys+(-0.1400)Trp;0.791,0.819,0.768,0.735,0.772,0.832,0.799,0.785,(6.4997)+(-0.1096)His+(-0.0273)Val+(-0.1199)Met+(0.0396)Orn+(0.0555)Leu;0.791,0.817,0.759,0.738,0.742,0.818,0.806,0.776,(5.9271)+(-0.1045)His+(-0.0110)Arg+(-0.0027)Pro+(0.1198)Ile+(-0.0506)Leu;0.791,0.824,0.793,0.794,0.791,0.792,0.796,0.794,(6.0380)+(-0.0122)Arg+(0.0065)Pro+(-0.0244)Val+(0.0462)Leu+(-0.1474)Trp;0.791,0.814,0.795,0.795,0.775,0.843,0.799,0.803,(4.4519)+(-0.0004)Gly+(0.0095)Gln+(-0.1416)His+(-0.0022)Ala+(-0.0049)Tyr;0.791,0.825,0.787,0.764,0.797,0.808,0.811,0.795,(4.7670)+(-0.1178)His+(-0.0329)Cit+(0.0080)Arg+(-0.1797)Met+(0.1177)Phe;0.791,0.820,0.737,0.707,0.733,0.798,0.783,0.755,(5.8120)+(-0.1310)His+(-0.0005)Pro+(-0.0331)Tyr+(0.0275)Orn+(0.0471)Ile;0.791,0.814,0.731,0.706,0.732,0.787,0.755,0.745,(3.9355)+(0.0049)Gly+(-0.1475)His+(0.0016)Pro+(-0.0032)Lys+(0.0803)Phe;0.791,0.823,0.753,0.731,0.775,0.812,0.725,0.761,(6.8087)+(-0.1323)His+(0.0355)Thr+(-0.0088)Arg+(-0.2005)Met+(0.0246)Leu;0.791,0.821,0.809,0.811,0.794,0.846,0.806,0.814,(4.3092)+(-0.0398)Asn+(0.0115)Gln+(-0.1338)His+(-0.0900)Met+(0.0064)Lys;0.791,0.825,0.763,0.763,0.766,0.776,0.748,0.763,(5.2257)+(0.0147)Thr+(-0.0213)Arg+(-0.0236)Tyr+(0.0542)Ile+(-0.1634)Trp;0.791,0.820,0.807,0.819,0.793,0.815,0.798,0.806,(6.2638)+(-0.0005)Gly+(-0.0062)Ala+(0.0111)Pro+(-0.0048)Tyr+(-0.1356)Trp;0.791,0.812,0.770,0.758,0.760,0.819,0.786,0.781,(3.8289)+(0.0002)Gly+(0.0090)Gln+(-0.1544)His+(0.0033)Pro+(0.0014)Val;0.791,0.821,0.788,0.772,0.795,0.806,0.805,0.795,(5.0301)+(-0.1121)His+(-0.0251)Cit+(-0.0043)Val+(-0.1653)Met+(0.1234)Phe;0.791,0.819,0.812,0.822,0.820,0.815,0.769,0.806,(6.8258)+(-0.

0358)Asn+(0.0001)Gly+(-0.0848)Met+(0.0280)Orn+(-0.1269)Trp;0.791,0.815,0.772,0.772,0.758,0.825,0.764,0.780,(4.5107)+(0.0082)Gln+(-0.1464)His+(0.0102)Thr+(-0.0141)Tyr+(-0.0019)Lys;0.791,0.819,0.777,0.774,0.724,0.869,0.827,0.798,(2.9664)+(0.0037)Gly+(-0.0125)Ala+(-0.0960)Cit+(0.1827)Ile+(-0.0832)Leu;0.791,0.819,0.806,0.807,0.795,0.842,0.798,0.811,(4.3904)+(-0.0553)Asn+(0.0127)Gln+(-0.1425)His+(-0.0183)Arg+(0.0064)Lys;0.791,0.821,0.812,0.814,0.804,0.808,0.828,0.814,(7.0720)+(-0.0723)Asn+(-0.0266)Val+(0.0057)Lys+(0.0510)Leu+(-0.1347)Trp;0.791,0.815,0.733,0.719,0.740,0.832,0.687,0.744,(4.6024)+(0.0340)Ser+(-0.1266)His+(0.0078)Thr+(-0.0330)Cit+(-0.0086)Tyr;0.791,0.821,0.839,0.858,0.829,0.836,0.809,0.833,(4.9912)+(-0.0012)Gly+(0.0064)Gln+(-0.0014)Ala+(-0.1173)Met+(-0.1335)Trp;0.791,0.810,0.765,0.746,0.765,0.821,0.779,0.778,(3.5674)+(0.0016)Gly+(0.0096)Gln+(-0.1552)His+(-0.0393)Cit+(0.0148)Leu;0.791,0.821,0.818,0.833,0.797,0.823,0.819,0.818,(4.9228)+(-0.0018)Gly+(0.0038)Gln+(-0.0069)Ala+(0.0099)Pro+(-0.1449)Trp;0.791,0.819,0.800,0.802,0.785,0.846,0.792,0.806,(4.0773)+(0.0005)Gly+(0.0104)Gln+(-0.1373)His+(-0.1162)Met+(0.0058)Lys;0.791,0.815,0.719,0.723,0.685,0.816,0.709,0.733,(1.0885)+(0.0231)Ser+(-0.0843)Cit+(-0.0514)Tyr+(0.1633)Ile+(-0.0823)Leu;0.791,0.815,0.761,0.759,0.681,0.840,0.873,0.788,(3.7913)+(-0.0089)Ala+(-0.0203)Tyr+(-0.0493)Val+(-0.0084)Lys+(0.1739)Ile;0.791,0.822,0.815,0.827,0.817,0.817,0.773,0.809,(6.9626)+(-0.0631)Asn+(-0.0041)Tyr+(-0.0042)Val+(0.0295)Orn+(-0.1250)Trp;0.791,0.815,0.787,0.796,0.723,0.846,0.851,0.804,(4.5424)+(-0.0576)Asn+(-0.0086)Ala+(-0.0319)Tyr+(0.1687)Ile+(-0.0812)Leu;0.791,0.821,0.761,0.796,0.728,0.785,0.721,0.757,(0.3247)+(0.0467)Ser+(-0.1799)Asn+(-0.0511)Tyr+(-0.0173)Val+(0.1241)Phe;0.791,0.818,0.790,0.788,0.731,0.878,0.856,0.813,(2.1938)+(0.0033)Gln+(-0.0129)Ala+(-0.0967)Cit+(0.1837)Ile+(-0.0855)Leu;0.791,0.815,0.801,0.805,0.786,0.849,0.790,0.808,(4.4551)+(0.0002)Gly+(0

.0112)Gln+(-0.1422)His+(-0.0018)Ala+(-0.0170)Arg;0.790,0.818,0.726,0.683,0.730,0.807,0.771,0.748,(4.9659)+(0.0036)Gly+(-0.1379)His+(0.0213)Orn+(-0.0059)Lys+(0.0460)Ile;0.790,0.822,0.805,0.798,0.801,0.849,0.796,0.811,(4.0282)+(0.0119)Gln+(-0.1375)His+(-0.0371)Cit+(0.0065)Val+(-0.1086)Met;0.790,0.819,0.767,0.761,0.759,0.784,0.788,0.773,(5.5848)+(-0.0230)Asn+(-0.1207)His+(-0.0303)Cit+(-0.0394)Tyr+(0.1043)Phe;0.790,0.818,0.762,0.754,0.755,0.818,0.757,0.771,(4.3649)+(0.0071)Gln+(-0.1481)His+(0.0075)Thr+(-0.0214)Tyr+(0.0238)Orn;0.790,0.816,0.761,0.752,0.753,0.813,0.765,0.771,(4.1316)+(0.0078)Gln+(-0.1455)His+(0.0046)Pro+(-0.0230)Tyr+(0.0236)Orn;0.790,0.825,0.839,0.858,0.831,0.832,0.813,0.833,(5.4072)+(-0.0837)Asn+(0.0067)Gln+(-0.0016)Tyr+(-0.0014)Val+(-0.1351)Trp;0.790,0.821,0.806,0.818,0.793,0.814,0.797,0.805,(5.9423)+(-0.0065)Ala+(0.0108)Pro+(-0.0008)Val+(0.0022)Lys+(-0.1392)Trp;0.790,0.813,0.802,0.806,0.786,0.849,0.790,0.808,(4.4953)+(0.0113)Gln+(-0.1414)His+(-0.0017)Ala+(-0.0168)Arg+(-0.0024)Tyr;0.790,0.833,0.730,0.702,0.750,0.819,0.701,0.743,(-0.3182)+(0.0486)Ser+(-0.0750)Cit+(-0.2880)Met+(-0.0121)Lys+(0.0772)Ile;0.790,0.829,0.733,0.727,0.768,0.783,0.639,0.729,(-3.0143)+(0.0473)Ser+(-0.1009)Cit+(-0.3734)Met+(0.0273)Orn+(0.1120)Phe;0.790,0.821,0.761,0.719,0.781,0.825,0.782,0.777,(6.1546)+(-0.1087)His+(-0.0562)Cit+(-0.1391)Met+(0.0390)Orn+(0.0516)Ile;0.790,0.821,0.792,0.805,0.797,0.782,0.757,0.785,(4.2488)+(0.0019)Gln+(0.0027)Thr+(0.0026)Pro+(0.0103)Orn+(-0.1590)Trp;0.790,0.818,0.757,0.754,0.739,0.778,0.788,0.765,(4.8602)+(-0.1315)His+(-0.0405)Tyr+(-0.0046)Val+(0.0033)Lys+(0.1043)Phe;0.790,0.815,0.738,0.698,0.746,0.806,0.777,0.757,(6.0323)+(-0.0412)Asn+(-0.1281)His+(0.0177)Thr+(-0.0381)Cit+(0.0453)Ile;0.790,0.815,0.774,0.743,0.760,0.842,0.839,0.796,(6.5007)+(-0.1065)His+(-0.0074)Ala+(-0.0446)Cit+(-0.0023)Lys+(0.0650)Ile;0.790,0.821,0.801,0.809,0.812,0.798,0.758,0.794,(6.7118)+(-0.0834)Asn+(0.0174)Thr+(

-0.0001)Lys+(0.0080)Leu+(-0.1492)Trp;0.790,0.822,0.727,0.693,0.744,0.786,0.738,0.740,(4.5027)+(-0.1545)His+(0.0173)Thr+(-0.0191)Arg+(0.0181)Orn+(0.0689)Phe;0.790,0.819,0.783,0.774,0.730,0.866,0.854,0.806,(3.5660)+(-0.0136)Ala+(-0.0902)Cit+(0.0055)Pro+(0.1742)Ile+(-0.0820)Leu;0.790,0.817,0.765,0.760,0.751,0.783,0.793,0.772,(5.3626)+(-0.0239)Asn+(-0.1267)His+(-0.0396)Tyr+(0.0000)Leu+(0.1003)Phe;0.790,0.815,0.752,0.740,0.753,0.843,0.712,0.762,(4.8645)+(0.0381)Ser+(-0.1177)His+(-0.0017)Ala+(-0.0231)Cit+(-0.0089)Arg;0.790,0.824,0.777,0.771,0.771,0.778,0.803,0.781,(5.2192)+(-0.0003)Gly+(-0.0179)Tyr+(-0.0059)Lys+(0.0574)Ile+(-0.1554)Trp;0.790,0.823,0.767,0.754,0.767,0.850,0.741,0.778,(4.8851)+(0.0448)Ser+(-0.0038)Gly+(-0.1072)His+(-0.0218)Cit+(-0.0916)Met;0.790,0.820,0.777,0.794,0.780,0.780,0.726,0.770,(5.2728)+(0.0067)Thr+(0.0044)Pro+(-0.0230)Tyr+(0.0147)Orn+(-0.1485)Trp;0.790,0.815,0.790,0.790,0.781,0.835,0.777,0.796,(4.1683)+(0.0115)Gln+(-0.1495)His+(-0.0176)Arg+(-0.0102)Tyr+(0.0039)Val;0.790,0.824,0.758,0.745,0.771,0.820,0.720,0.764,(6.6635)+(-0.1222)His+(0.0236)Thr+(-0.0054)Tyr+(-0.1413)Met+(0.0306)Orn;0.790,0.813,0.753,0.746,0.671,0.844,0.881,0.785,(2.4697)+(-0.0022)Gly+(-0.0108)Ala+(-0.0542)Val+(0.0162)Orn+(0.1691)Ile;0.790,0.823,0.758,0.744,0.779,0.824,0.704,0.763,(7.0577)+(-0.1213)His+(0.0269)Thr+(-0.0140)Arg+(-0.1418)Met+(0.0319)Orn;0.790,0.821,0.818,0.829,0.815,0.820,0.794,0.815,(6.7495)+(-0.0605)Asn+(-0.0036)Ala+(0.0255)Orn+(0.0039)Lys+(-0.1324)Trp;0.790,0.814,0.749,0.736,0.748,0.845,0.720,0.762,(4.6487)+(0.0366)Ser+(-0.1191)His+(-0.0022)Ala+(-0.0308)Cit+(0.0004)Lys;0.790,0.814,0.766,0.768,0.707,0.828,0.842,0.786,(5.8845)+(-0.0981)Asn+(-0.0100)Arg+(-0.0215)Tyr+(-0.0542)Val+(0.1679)Ile;0.790,0.817,0.779,0.761,0.765,0.819,0.826,0.793,(5.3446)+(-0.0259)Asn+(-0.1284)His+(-0.0044)Ala+(0.0023)Leu+(0.0816)Phe;0.790,0.823,0.819,0.836,0.817,0.827,0.775,0.814,(4.7062)+(0.0051)Gln+(-0.0011)Val+(-0.1416)Me

t+(0.0214)Orn+(-0.1344)Trp;0.790,0.821,0.797,0.811,0.800,0.793,0.760,0.791,(4.5615)+(0.0025)Gln+(0.0063)Thr+(0.0034)Pro+(-0.0046)Lys+(-0.1551)Trp;0.790,0.820,0.808,0.814,0.795,0.852,0.787,0.812,(4.4122)+(0.0004)Gly+(0.0120)Gln+(-0.1349)His+(-0.0137)Arg+(-0.0797)Met;0.790,0.819,0.790,0.802,0.795,0.793,0.743,0.783,(5.5064)+(0.0083)Thr+(0.0046)Pro+(-0.0029)Val+(-0.0023)Lys+(-0.1493)Trp;0.790,0.818,0.811,0.813,0.800,0.858,0.797,0.817,(4.5357)+(0.0113)Gln+(-0.1265)His+(-0.0008)Ala+(-0.0334)Cit+(-0.0863)Met;0.790,0.822,0.811,0.820,0.815,0.804,0.781,0.805,(7.1868)+(-0.0255)Asn+(-0.0011)Arg+(0.0094)Pro+(-0.1014)Met+(-0.1265)Trp;0.790,0.810,0.761,0.738,0.763,0.818,0.778,0.774,(3.7298)+(0.0089)Gln+(-0.1594)His+(0.0083)Thr+(-0.0391)Cit+(0.0141)Leu;0.790,0.821,0.803,0.810,0.815,0.798,0.765,0.797,(6.8269)+(-0.0824)Asn+(-0.0009)Gly+(0.0179)Thr+(0.0078)Leu+(-0.1498)Trp;0.790,0.819,0.725,0.702,0.724,0.793,0.741,0.740,(-2.0027)+(0.0531)Ser+(-0.0066)Gly+(0.0083)Thr+(-0.3811)Met+(0.0646)Ile;0.790,0.822,0.824,0.837,0.822,0.824,0.791,0.818,(4.7961)+(-0.0017)Gly+(0.0053)Gln+(-0.1421)Met+(0.0210)Orn+(-0.1360)Trp;0.790,0.810,0.760,0.757,0.680,0.840,0.877,0.789,(2.7955)+(-0.0015)Gly+(-0.0103)Ala+(-0.0421)Val+(0.1940)Ile+(-0.0332)Leu;0.790,0.818,0.811,0.811,0.800,0.849,0.805,0.816,(4.7878)+(-0.0595)Asn+(0.0121)Gln+(-0.1278)His+(-0.0361)Cit+(-0.0045)Tyr;0.790,0.820,0.762,0.758,0.748,0.778,0.793,0.769,(5.2644)+(-0.0286)Asn+(-0.1291)His+(-0.0424)Tyr+(0.0039)Lys+(0.0991)Phe;0.790,0.824,0.831,0.845,0.827,0.815,0.816,0.826,(4.9859)+(-0.0892)Asn+(0.0062)Gln+(0.0020)Lys+(0.0067)Leu+(-0.1465)Trp;0.790,0.819,0.820,0.828,0.833,0.819,0.773,0.813,(7.3782)+(-0.0571)Cit+(0.0032)Arg+(-0.0816)Met+(0.0076)Lys+(-0.1374)Trp;0.790,0.812,0.785,0.773,0.781,0.832,0.788,0.794,(4.0711)+(0.0104)Gln+(-0.1478)His+(-0.0379)Cit+(0.0047)Val+(-0.0032)Lys;0.790,0.823,0.757,0.741,0.772,0.822,0.721,0.764,(6.4694)+(-0.124

4)His+(0.0232)Thr+(-0.1595)Met+(0.0281)Orn+(0.0034)Lys;0.790,0.815,0.732,0.703,0.746,0.779,0.746,0.744,(4.7219)+(-0.1542)His+(0.0197)Thr+(-0.0182)Arg+(-0.0001)Pro+(0.0759)Phe;0.790,0.812,0.761,0.759,0.747,0.813,0.756,0.769,(4.2952)+(0.0080)Gln+(-0.1464)His+(0.0087)Thr+(0.0052)Pro+(-0.0220)Tyr;0.790,0.810,0.757,0.753,0.696,0.835,0.839,0.781,(4.8726)+(-0.1276)Asn+(0.0029)Gly+(-0.0512)Val+(0.1758)Ile+(-0.0147)Leu;0.790,0.822,0.791,0.790,0.742,0.853,0.847,0.808,(3.7598)+(-0.0077)Ala+(-0.0065)Tyr+(-0.1823)Met+(0.1787)Ile+(-0.0797)Leu;0.790,0.822,0.804,0.811,0.793,0.810,0.803,0.804,(6.1795)+(-0.0069)Ala+(-0.0100)Arg+(0.0103)Pro+(0.0117)Leu+(-0.1435)Trp;0.790,0.821,0.806,0.815,0.813,0.791,0.781,0.800,(6.0963)+(0.0088)Pro+(0.0126)Tyr+(-0.1714)Met+(0.0083)Lys+(-0.1402)Trp;0.790,0.820,0.802,0.801,0.790,0.846,0.802,0.809,(3.9855)+(0.0107)Gln+(-0.1395)His+(0.0097)Tyr+(-0.1294)Met+(0.0053)Lys;0.790,0.812,0.780,0.774,0.768,0.823,0.786,0.788,(4.0968)+(-0.0003)Gly+(0.0096)Gln+(-0.1506)His+(-0.0137)Tyr+(0.0039)Val;0.790,0.814,0.740,0.705,0.740,0.811,0.781,0.759,(5.7959)+(-0.1285)His+(0.0029)Pro+(-0.0244)Val+(0.0334)Orn+(0.0433)Leu;0.790,0.815,0.779,0.773,0.773,0.837,0.767,0.788,(4.5481)+(0.0090)Gln+(-0.1439)His+(0.0102)Thr+(-0.0373)Cit+(-0.0039)Lys;0.790,0.822,0.759,0.749,0.763,0.845,0.714,0.768,(4.5591)+(0.0394)Ser+(-0.1107)His+(-0.0261)Cit+(-0.1162)Met+(0.0061)Lys;0.790,0.821,0.818,0.833,0.816,0.821,0.776,0.812,(4.5631)+(0.0049)Gln+(-0.1509)Met+(0.0189)Orn+(0.0032)Lys+(-0.1387)Trp;0.790,0.813,0.730,0.705,0.743,0.822,0.701,0.743,(4.0722)+(0.0387)Ser+(-0.1327)His+(-0.0332)Cit+(-0.0111)Tyr+(0.0072)Val;0.790,0.813,0.748,0.730,0.749,0.831,0.735,0.761,(4.6551)+(0.0421)Ser+(-0.0042)Gly+(-0.1214)His+(-0.0234)Cit+(-0.0068)Tyr;0.790,0.821,0.815,0.821,0.823,0.807,0.790,0.810,(7.0235)+(-0.0254)Asn+(0.0087)Pro+(0.0129)Tyr+(-0.1217)Met+(-0.1300)Trp;0.790,0.815,0.746,0.711,0.747,0.814,0.786,0.764,(6.0645)+(-0.1264)His+(-0.0241)V

al+(0.0365)Orn+(-0.0030)Lys+(0.0458)Leu;0.790,0.817,0.754,0.749,0.741,0.769,0.786,0.761,(5.2168)+(-0.0250)Asn+(-0.1263)His+(0.0048)Pro+(-0.0446)Tyr+(0.0976)Phe;0.790,0.817,0.724,0.680,0.739,0.802,0.754,0.744,(5.4340)+(-0.1450)His+(0.0146)Thr+(-0.0159)Arg+(0.0186)Orn+(0.0393)Ile;0.790,0.821,0.779,0.766,0.781,0.785,0.805,0.784,(4.7949)+(-0.0021)Pro+(0.0076)Orn+(-0.0087)Lys+(0.0559)Ile+(-0.1609)Trp;0.790,0.819,0.755,0.739,0.755,0.832,0.741,0.767,(4.8500)+(0.0446)Ser+(-0.0048)Gly+(-0.1222)His+(-0.0127)Arg+(-0.0053)Tyr;0.790,0.821,0.820,0.839,0.821,0.827,0.763,0.813,(4.8019)+(0.0057)Gln+(-0.0127)Arg+(-0.1311)Met+(0.0239)Orn+(-0.1338)Trp;0.790,0.820,0.805,0.818,0.791,0.815,0.794,0.804,(6.1730)+(-0.0062)Ala+(0.0111)Pro+(-0.0044)Tyr+(-0.0001)Val+(-0.1356)Trp;0.790,0.820,0.809,0.823,0.799,0.819,0.789,0.807,(6.5470)+(0.0000)Gly+(-0.0060)Ala+(-0.0095)Arg+(0.0114)Pro+(-0.1344)Trp;0.790,0.814,0.778,0.777,0.712,0.846,0.868,0.801,(4.1629)+(-0.1509)Asn+(0.0044)Gln+(-0.0554)Val+(-0.0008)Lys+(0.1619)Ile;0.790,0.816,0.734,0.707,0.748,0.780,0.744,0.745,(4.7477)+(-0.1529)His+(0.0198)Thr+(-0.0186)Arg+(-0.0027)Leu+(0.0791)Phe;0.790,0.823,0.819,0.809,0.822,0.820,0.835,0.822,(6.4297)+(0.0289)Tyr+(-0.0282)Val+(-0.1718)Met+(0.0614)Leu+(-0.1344)Trp;0.790,0.822,0.841,0.861,0.835,0.835,0.807,0.834,(5.4317)+(-0.0763)Asn+(0.0072)Gln+(-0.0093)Arg+(-0.0012)Val+(-0.1346)Trp;0.790,0.820,0.807,0.818,0.794,0.811,0.800,0.806,(6.0042)+(-0.0005)Gly+(-0.0066)Ala+(0.0107)Pro+(0.0020)Lys+(-0.1400)Trp;0.790,0.823,0.760,0.723,0.766,0.818,0.805,0.778,(5.9357)+(-0.1177)His+(-0.0003)Arg+(-0.1492)Met+(0.0241)Orn+(0.0554)Ile;0.790,0.819,0.795,0.806,0.799,0.787,0.764,0.789,(5.7373)+(-0.0024)Gly+(0.0090)Thr+(0.0045)Pro+(-0.0036)Val+(-0.1514)Trp;0.790,0.821,0.742,0.713,0.739,0.799,0.786,0.759,(6.0572)+(-0.0152)Asn+(-0.1266)His+(-0.0325)Tyr+(0.0283)Orn+(0.0461)Ile;0.790,0.811,0.769,0.749,0.768,0.821,0.790,0.782,(3.6423)+(0.0098)Gln+(-0.1552)His+(-0.0375

)Cit+(0.0018)Pro+(0.0130)Leu;0.790,0.818,0.809,0.824,0.799,0.821,0.779,0.806,(4.7183)+(0.0025)Gln+(0.0064)Thr+(-0.0055)Ala+(0.0164)Orn+(-0.1492)Trp;0.790,0.818,0.806,0.810,0.812,0.796,0.788,0.802,(6.7604)+(-0.0227)Asn+(0.0079)Pro+(-0.1205)Met+(0.0113)Leu+(-0.1345)Trp;0.790,0.814,0.792,0.793,0.771,0.841,0.795,0.800,(4.3893)+(0.0093)Gln+(-0.1423)His+(-0.0022)Ala+(-0.0053)Tyr+(0.0010)Lys;0.789,0.818,0.754,0.745,0.676,0.856,0.868,0.786,(-0.1487)+(0.0334)Ser+(-0.0083)Gly+(-0.0129)Ala+(0.1731)Ile+(-0.0864)Leu;0.789,0.819,0.789,0.809,0.786,0.785,0.749,0.782,(4.5291)+(0.0025)Gln+(0.0045)Pro+(-0.0215)Tyr+(0.0145)Orn+(-0.1486)Trp;0.789,0.815,0.752,0.733,0.756,0.834,0.734,0.764,(4.7649)+(0.0438)Ser+(-0.0040)Gly+(-0.1222)His+(-0.0154)Cit+(-0.0108)Arg;0.789,0.819,0.786,0.805,0.788,0.794,0.728,0.779,(5.4957)+(0.0077)Thr+(-0.0171)Tyr+(-0.0032)Val+(0.0194)Orn+(-0.1436)Trp;0.789,0.819,0.833,0.853,0.825,0.833,0.799,0.827,(4.7603)+(0.0061)Gln+(-0.0018)Ala+(0.0025)Val+(-0.1213)Met+(-0.1364)Trp;0.789,0.819,0.798,0.812,0.801,0.796,0.754,0.791,(4.5532)+(0.0019)Gln+(0.0040)Thr+(-0.0039)Val+(0.0153)Orn+(-0.1514)Trp;0.789,0.821,0.814,0.827,0.822,0.815,0.761,0.806,(7.1003)+(-0.0560)Asn+(-0.0090)Arg+(-0.0044)Val+(0.0318)Orn+(-0.1250)Trp;0.789,0.820,0.754,0.734,0.758,0.799,0.770,0.765,(4.7468)+(-0.1330)His+(-0.0132)Arg+(-0.0094)Val+(0.0317)Orn+(0.0827)Phe;0.789,0.820,0.786,0.803,0.786,0.776,0.749,0.779,(6.0417)+(-0.0030)Gly+(0.0117)Thr+(0.0054)Pro+(-0.0232)Tyr+(-0.1493)Trp;0.789,0.819,0.799,0.821,0.790,0.794,0.762,0.792,(4.7148)+(0.0032)Gln+(0.0061)Pro+(-0.0168)Tyr+(-0.0023)Val+(-0.1452)Trp;0.789,0.815,0.779,0.762,0.768,0.818,0.818,0.792,(5.4493)+(-0.0225)Asn+(-0.1268)His+(-0.0042)Ala+(-0.0043)Arg+(0.0850)Phe;0.789,0.815,0.744,0.703,0.747,0.808,0.799,0.764,(5.6411)+(-0.0208)Asn+(-0.1339)His+(-0.0024)Pro+(0.0233)Orn+(0.0422)Ile;0.789,0.809,0.730,0.700,0.725,0.800,0.768,0.748,(5.9621)+(-0.1384)His+(0.0162)Thr+(0.0024)Pro+(-0.0226

)Val+(0.0456)Leu;0.789,0.823,0.768,0.757,0.766,0.849,0.744,0.779,(4.9375)+(0.0464)Ser+(-0.0044)Gly+(-0.1108)His+(-0.0084)Arg+(-0.0815)Met;0.789,0.817,0.742,0.721,0.729,0.815,0.774,0.760,(5.3197)+(0.0040)Gly+(-0.1089)His+(-0.0138)Arg+(0.1149)Ile+(-0.0477)Leu;0.789,0.815,0.755,0.729,0.742,0.820,0.804,0.774,(5.8234)+(-0.0981)His+(-0.0373)Cit+(-0.0050)Arg+(0.1181)Ile+(-0.0505)Leu;0.789,0.825,0.839,0.857,0.832,0.828,0.816,0.833,(5.3940)+(-0.0815)Asn+(-0.0009)Gly+(0.0068)Gln+(-0.0036)Tyr+(-0.1373)Trp;0.789,0.821,0.757,0.777,0.746,0.790,0.700,0.753,(-3.0129)+(0.0430)Ser+(0.0001)Gln+(-0.0128)Val+(-0.3550)Met+(0.1294)Phe;0.789,0.815,0.788,0.785,0.782,0.834,0.774,0.794,(4.0063)+(0.0006)Gly+(0.0113)Gln+(-0.1527)His+(-0.0184)Arg+(0.0031)Val;0.789,0.814,0.772,0.747,0.752,0.838,0.834,0.793,(6.6185)+(-0.1059)His+(-0.0068)Ala+(-0.0428)Cit+(-0.0136)Tyr+(0.0654)Ile;0.789,0.814,0.765,0.749,0.758,0.789,0.802,0.775,(5.3149)+(-0.0427)Asn+(-0.1227)His+(0.0040)Pro+(-0.0088)Val+(0.0896)Phe;0.789,0.817,0.771,0.755,0.755,0.811,0.817,0.785,(4.9209)+(-0.1320)His+(-0.0038)Ala+(-0.0041)Val+(0.0008)Lys+(0.0879)Phe;0.789,0.811,0.759,0.753,0.699,0.836,0.842,0.783,(4.9681)+(-0.1316)Asn+(0.0030)Gly+(-0.0008)Pro+(-0.0559)Val+(0.1672)Ile;0.789,0.823,0.740,0.743,0.764,0.777,0.651,0.734,(-2.8546)+(0.0499)Ser+(-0.0781)Cit+(-0.0054)Arg+(-0.3605)Met+(0.1208)Phe;0.789,0.819,0.811,0.812,0.831,0.809,0.766,0.805,(7.1039)+(-0.0694)Cit+(0.0037)Tyr+(0.0040)Val+(0.0012)Lys+(-0.1534)Trp;0.789,0.824,0.839,0.853,0.838,0.833,0.811,0.834,(4.6682)+(-0.0007)Gly+(0.0062)Gln+(0.0200)Tyr+(-0.1612)Met+(-0.1399)Trp;0.789,0.823,0.776,0.771,0.770,0.778,0.800,0.780,(5.1643)+(-0.0002)Pro+(-0.0176)Tyr+(-0.0060)Lys+(0.0578)Ile+(-0.1555)Trp;0.789,0.823,0.823,0.836,0.823,0.827,0.789,0.818,(4.5066)+(0.0052)Gln+(0.0150)Tyr+(-0.1664)Met+(0.0185)Orn+(-0.1394)Trp;0.789,0.821,0.803,0.814,0.804,0.784,0.785,0.797,(4.4486)+(-0.0023)Gly+(0.0026)Gln+(0.0028)Pro+(0.0121)Orn+(-0.15

74)Trp;0.789,0.818,0.810,0.825,0.806,0.792,0.791,0.804,(4.7301)+(-0.0022)Gly+(0.0032)Gln+(0.0048)Pro+(-0.0031)Val+(-0.1507)Trp;0.789,0.822,0.784,0.769,0.790,0.799,0.799,0.789,(5.1218)+(-0.1149)His+(-0.0265)Cit+(-0.0173)Tyr+(-0.1455)Met+(0.1212)Phe;0.789,0.820,0.790,0.787,0.785,0.789,0.808,0.792,(6.0444)+(-0.0414)Asn+(-0.0071)Arg+(-0.0122)Tyr+(0.0537)Ile+(-0.1501)Trp;0.789,0.819,0.743,0.748,0.763,0.778,0.663,0.738,(-3.4052)+(0.0470)Ser+(0.0019)Gln+(-0.0855)Cit+(-0.3754)Met+(0.1194)Phe;0.789,0.819,0.804,0.815,0.809,0.800,0.767,0.798,(6.6420)+(0.0006)Gly+(0.0098)Pro+(-0.0007)Val+(-0.1269)Met+(-0.1278)Trp;0.789,0.819,0.818,0.830,0.816,0.823,0.790,0.815,(6.8702)+(-0.0546)Asn+(-0.0034)Ala+(-0.0003)Tyr+(0.0277)Orn+(-0.1287)Trp;0.789,0.819,0.811,0.812,0.830,0.812,0.767,0.805,(7.0996)+(
-0.0711)Cit+(0.0031)Arg+(0.0043)Val+(0.0006)Lys+(-0.1526)Trp;0.789,0.817,0.786,0.780,0.733,0.869,0.850,0.808,(3.5615)+(0.0004)Thr+(-0.0123)Ala+(-0.0885)Cit+(0.1798)Ile+(-0.0833)Leu;0.789,0.821,0.806,0.820,0.821,0.808,0.739,0.797,(7.5297)+(-0.0706)Asn+(-0.0011)Gly+(0.0218)Thr+(-0.0126)Arg+(-0.1427)Trp;0.789,0.820,0.809,0.823,0.799,0.819,0.789,0.807,(6.5494)+(-0.0060)Ala+(-0.0095)Arg+(0.0114)Pro+(-0.0000)Val+(-0.1343)Trp;0.789,0.816,0.761,0.755,0.750,0.783,0.781,0.767,(5.2485)+(-0.1238)His+(-0.0295)Cit+(-0.0386)Tyr+(-0.0034)Val+(0.1080)Phe;0.789,0.823,0.836,0.849,0.835,0.831,0.806,0.830,(4.5434)+(0.0060)Gln+(0.0202)Tyr+(0.0010)Val+(-0.1646)Met+(-0.1412)Trp;0.789,0.821,0.827,0.839,0.820,0.824,0.813,0.824,(4.4430)+(0.0059)Gln+(-0.0027)Ala+(-0.1372)Met+(0.0170)Leu+(-0.1419)Trp;0.789,0.820,0.827,0.847,0.823,0.821,0.789,0.820,(4.6060)+(0.0057)Gln+(0.0004)Val+(-0.1454)Met+(0.0055)Lys+(-0.1404)Trp;0.789,0.815,0.781,0.767,0.780,0.828,0.790,0.791,(3.7560)+(0.0114)Gln+(-0.1548)His+(-0.0277)Cit+(-0.0138)Arg+(0.0138)Leu;0.789,0.818,0.759,0.766,0.740,0.783,0.759,0.762,(-3.1536)+(0.0525)Ser+(-0.0056)Gly

+(-0.0034)Ala+(-0.3474)Met+(0.1052)Phe;0.789,0.813,0.798,0.801,0.783,0.842,0.789,0.804,(4.2808)+(0.0111)Gln+(-0.1463)His+(-0.0022)Ala+(-0.0200)Arg+(0.0051)Lys;0.789,0.818,0.767,0.749,0.753,0.809,0.815,0.781,(5.1030)+(-0.1298)His+(-0.0063)Ala+(-0.0085)Arg+(0.0073)Pro+(0.0802)Phe;0.789,0.818,0.807,0.819,0.809,0.799,0.775,0.800,(6.9085)+(-0.0554)Asn+(0.0006)Gly+(0.0069)Pro+(-0.0062)Tyr+(-0.1329)Trp;0.789,0.823,0.811,0.822,0.805,0.806,0.802,0.809,(4.8256)+(0.0042)Gln+(-0.0158)Arg+(-0.0220)Val+(0.0441)Leu+(-0.1529)Trp;0.789,0.813,0.782,0.779,0.774,0.832,0.772,0.789,(4.0461)+(0.0005)Gly+(0.0110)Gln+(-0.1491)His+(-0.0191)Arg+(0.0046)Pro;0.789,0.821,0.816,0.822,0.826,0.819,0.776,0.811,(6.7295)+(-0.0340)Asn+(0.0117)Tyr+(-0.1036)Met+(0.0264)Orn+(-0.1301)Trp;0.789,0.817,0.821,0.829,0.829,0.829,0.779,0.816,(7.3829)+(-0.0026)Ala+(-0.0629)Cit+(0.0020)Arg+(0.0040)Lys+(-0.1403)Trp;0.789,0.822,0.808,0.808,0.803,0.818,0.808,0.809,(6.4713)+(0.0015)Gly+(-0.0256)Val+(-0.1303)Met+(0.0589)Leu+(-0.1302)Trp;0.789,0.822,0.842,0.861,0.837,0.829,0.811,0.834,(5.4091)+(-0.0750)Asn+(-0.0007)Gly+(0.0073)Gln+(-0.0095)Arg+(-0.1370)Trp;0.789,0.816,0.806,0.815,0.804,0.816,0.779,0.804,(5.8564)+(-0.0023)Gly+(0.0100)Thr+(-0.0052)Ala+(0.0187)Orn+(-0.1473)Trp;0.789,0.820,0.806,0.810,0.796,0.854,0.783,0.811,(4.4122)+(0.0012)Gly+(0.0111)Gln+(-0.1275)His+(-0.0344)Cit+(-0.0936)Met;0.789,0.812,0.760,0.757,0.703,0.834,0.831,0.781,(5.1829)+(-0.1159)Asn+(0.0032)Gly+(-0.0119)Arg+(-0.0563)Val+(0.1689)Ile;0.789,0.816,0.757,0.748,0.748,0.781,0.782,0.765,(5.2364)+(-0.1275)His+(-0.0307)Cit+(-0.0409)Tyr+(0.0013)Leu+(0.1016)Phe;0.789,0.824,0.762,0.748,0.768,0.853,0.718,0.772,(4.5049)+(0.0424)Ser+(-0.1159)His+(-0.0083)Arg+(0.0200)Tyr+(-0.1200)Met;0.789,0.819,0.818,0.829,0.819,0.825,0.780,0.813,(7.0276)+(-0.0471)Asn+(-0.0033)Ala+(-0.0083)Arg+(0.0304)Orn+(-0.1277)Trp;0.789,0.823,0.831,0.846,0.824,0.817,0.814,0.825,(5.0632)+(-0.0833)Asn+(0.0064)Gln+(-0.0066)T

yr+(0.0084)Leu+(-0.1435)Trp;0.789,0.820,0.781,0.799,0.783,0.783,0.728,0.774,(5.6882)+(0.0101)Thr+(0.0053)Pro+(-0.0192)Tyr+(-0.0023)Lys+(-0.1472)Trp;0.789,0.817,0.743,0.707,0.741,0.792,0.807,0.762,(4.6073)+(-0.1426)His+(-0.0074)Arg+(-0.0022)Pro+(0.0351)Ile+(0.0537)Phe;0.789,0.813,0.752,0.749,0.666,0.838,0.880,0.783,(2.5251)+(-0.0023)Thr+(-0.0117)Ala+(0.0052)Pro+(-0.0527)Val+(0.1676)Ile;0.789,0.812,0.741,0.730,0.737,0.793,0.739,0.750,(4.2842)+(0.0053)Gly+(-0.1398)His+(-0.0118)Arg+(-0.0055)Val+(0.0944)Phe;0.789,0.810,0.753,0.727,0.750,0.821,0.781,0.770,(6.4855)+(-0.1377)His+(0.0186)Thr+(-0.0045)Ala+(-0.0044)Lys+(0.0193)Leu;0.789,0.821,0.798,0.810,0.802,0.792,0.763,0.792,(4.3924)+(0.0025)Gln+(0.0030)Pro+(0.0140)Orn+(-0.0045)Lys+(-0.1522)Trp;0.789,0.820,0.837,0.859,0.830,0.838,0.793,0.830,(4.9778)+(0.0067)Gln+(-0.0012)Ala+(-0.0078)Arg+(-0.1102)Met+(-0.1319)Trp;0.789,0.819,0.766,0.761,0.744,0.799,0.804,0.777,(5.0163)+(-0.1314)His+(-0.0030)Ala+(-0.0367)Tyr+(0.0027)Lys+(0.0995)Phe;0.789,0.813,0.718,0.684,0.725,0.799,0.734,0.736,(5.1766)+(0.0035)Gly+(-0.1436)His+(0.0146)Thr+(-0.0157)Arg+(0.0466)Ile;0.789,0.821,0.802,0.813,0.804,0.783,0.783,0.796,(4.6362)+(-0.0028)Gly+(0.0026)Gln+(0.0060)Thr+(0.0030)Pro+(-0.1604)Trp;0.789,0.819,0.797,0.807,0.804,0.793,0.760,0.791,(5.6056)+(-0.0027)Gly+(0.0077)Thr+(-0.0043)Val+(0.0179)Orn+(-0.1494)Trp;0.789,0.816,0.803,0.815,0.798,0.820,0.765,0.800,(5.5974)+(0.0084)Thr+(-0.0050)Ala+(-0.0014)Val+(0.0197)Orn+(-0.1443)Trp;0.789,0.811,0.770,0.764,0.758,0.817,0.776,0.779,(4.0369)+(0.0092)Gln+(-0.1481)His+(0.0050)Pro+(-0.0192)Tyr+(0.0026)Val;0.789,0.807,0.733,0.712,0.727,0.799,0.754,0.748,(6.3723)+(-0.1353)His+(0.0201)Thr+(-0.0217)Tyr+(-0.0202)Val+(0.0464)Leu;0.789,0.820,0.804,0.817,0.788,0.813,0.793,0.803,(5.9928)+(-0.0064)Ala+(0.0110)Pro+(-0.0061)Tyr+(0.0024)Lys+(-0.1382)Trp;0.789,0.818,0.808,0.813,0.828,0.818,0.746,0.801,(6.8609)+(0.0022)Gly+(-0.0690)Cit+(0.0067)Tyr+(0.0022)Lys+(

-0.1489)Trp;0.789,0.813,0.783,0.778,0.777,0.831,0.778,0.791,(3.9884)+(0.0112)Gln+(-0.1516)His+(-0.0190)Arg+(0.0041)Pro+(0.0014)Val;0.789,0.822,0.723,0.697,0.743,0.803,0.690,0.733,(-0.9826)+(0.0479)Ser+(-0.0760)Cit+(0.0044)Pro+(-0.3450)Met+(0.0654)Ile;0.789,0.818,0.811,0.811,0.831,0.812,0.769,0.806,(7.0805)+(-0.0719)Cit+(0.0030)Arg+(0.0033)Tyr+(0.0043)Val+(-0.1535)Trp;0.789,0.817,0.774,0.767,0.758,0.806,0.801,0.783,(5.4303)+(-0.1215)His+(-0.0034)Ala+(-0.0339)Cit+(-0.0334)Tyr+(0.1054)Phe;0.789,0.821,0.725,0.741,0.751,0.768,0.598,0.715,(-3.4847)+(0.0446)Ser+(0.0192)Thr+(-0.0242)Arg+(-0.4232)Met+(0.1170)Phe;0.789,0.819,0.802,0.815,0.800,0.820,0.760,0.799,(5.7372)+(0.0100)Thr+(-0.0051)Ala+(0.0200)Orn+(-0.0034)Lys+(-0.1435)Trp;0.789,0.820,0.743,0.740,0.719,0.839,0.731,0.757,(1.2379)+(0.0421)Ser+(-0.1147)Asn+(-0.0304)Arg+(0.1619)Ile+(-0.0861)Leu;0.789,0.820,0.796,0.815,0.805,0.795,0.727,0.786,(4.8109)+(0.0035)Gln+(0.0109)Thr+(-0.0237)Arg+(0.0041)Pro+(-0.1583)Trp;0.788,0.818,0.740,0.708,0.744,0.791,0.783,0.756,(4.2536)+(-0.1455)His+(0.0005)Pro+(0.0232)Orn+(-0.0043)Leu+(0.0686)Phe;0.788,0.822,0.793,0.785,0.794,0.791,0.814,0.796,(5.9159)+(-0.0441)Asn+(-0.0082)Arg+(-0.0006)Lys+(0.0520)Ile+(-0.1541)Trp;0.788,0.813,0.779,0.774,0.767,0.824,0.786,0.788,(4.0955)+(0.0096)Gln+(-0.1505)His+(-0.0130)Tyr+(0.0041)Val+(-0.0009)Lys;0.788,0.819,0.794,0.798,0.803,0.793,0.765,0.790,(5.9600)+(0.0070)Pro+(-0.1516)Met+(0.0191)Orn+(0.0088)Leu+(-0.1361)Trp;0.788,0.825,0.754,0.773,0.743,0.796,0.695,0.752,(-3.0218)+(0.0413)Ser+(-0.0146)Val+(-0.3556)Met+(0.0144)Orn+(0.1269)Phe;0.788,0.822,0.757,0.744,0.769,0.816,0.723,0.763,(6.4877)+(-0.1188)His+(0.0260)Thr+(0.0079)Pro+(-0.1935)Met+(0.0064)Lys;0.788,0.818,0.806,0.816,0.809,0.792,0.781,0.800,(6.5634)+(-0.0681)Asn+(0.0008)Gly+(0.0059)Pro+(0.0054)Lys+(-0.1406)Trp;0.788,0.814,0.750,0.722,0.749,0.826,0.771,0.767,(5.8318)+(0.0029)Gly+(-0.1333)His+(-0.0045)Ala+(0.0301)Orn+(0.0139)Leu;0.788,

0.822,0.796,0.809,0.802,0.794,0.749,0.789,(6.8693)+(-0.0803)Asn+(0.0189)Thr+(-0.0131)Tyr+(0.0096)Leu+(-0.1461)Trp;0.788,0.818,0.798,0.819,0.791,0.791,0.762,0.791,(4.6368)+(0.0033)Gln+(0.0055)Pro+(-0.0172)Tyr+(-0.0013)Lys+(-0.1474)Trp;0.788,0.823,0.802,0.821,0.815,0.807,0.723,0.791,(7.5046)+(-0.0707)Asn+(0.0220)Thr+(-0.0122)Arg+(-0.0067)Tyr+(-0.1394)Trp;0.788,0.815,0.761,0.758,0.792,0.837,0.648,0.759,(2.3208)+(0.0416)Ser+(-0.0936)Asn+(-0.0979)Cit+(-0.1754)Met+(0.0453)Orn;0.788,0.820,0.811,0.824,0.810,0.805,0.784,0.806,(7.1751)+(-0.0553)Asn+(0.0077)Pro+(-0.0045)Tyr+(-0.0029)Val+(-0.1284)Trp;0.788,0.818,0.798,0.806,0.805,0.782,0.776,0.792,(6.0534)+(0.0083)Pro+(-0.1590)Met+(0.0064)Lys+(0.0091)Leu+(-0.1410)Trp;0.788,0.822,0.811,0.813,0.800,0.854,0.797,0.816,(4.2835)+(0.0123)Gln+(-0.1376)His+(-0.0135)Arg+(0.0112)Tyr+(-0.0980)Met;0.788,0.821,0.814,0.814,0.807,0.822,0.825,0.817,(6.7417)+(-0.0018)Ala+(-0.0247)Val+(-0.1123)Met+(0.0588)Leu+(-0.1295)Trp;0.788,0.812,0.781,0.776,0.775,0.829,0.774,0.788,(3.9481)+(0.0111)Gln+(-0.1520)His+(-0.0209)Arg+(0.0042)Pro+(0.0031)Lys;0.788,0.814,0.797,0.788,0.783,0.848,0.811,0.808,(4.1746)+(0.0104)Gln+(-0.1433)His+(-0.0040)Ala+(-0.0411)Cit+(0.0066)Val;0.788,0.814,0.755,0.733,0.744,0.797,0.808,0.771,(5.1373)+(-0.1329)His+(-0.0085)Arg+(-0.0204)Val+(0.0304)Leu+(0.0791)Phe;0.788,0.822,0.792,0.790,0.744,0.856,0.850,0.810,(3.5509)+(-0.0079)Ala+(-0.1972)Met+(0.0016)Lys+(0.1792)Ile+(-0.0807)Leu;0.788,0.824,0.833,0.852,0.826,0.820,0.809,0.827,(5.2321)+(-0.0893)Asn+(0.0064)Gln+(-0.0049)Tyr+(0.0042)Lys+(-0.1405)Trp;0.788,0.821,0.791,0.801,0.795,0.777,0.767,0.785,(4.1958)+(0.0021)Gln+(0.0041)Thr+(0.0025)Pro+(0.0051)Leu+(-0.1637)Trp;0.788,0.815,0.741,0.727,0.746,0.828,0.703,0.751,(4.5573)+(0.0378)Ser+(-0.1274)His+(-0.0152)Arg+(-0.0038)Tyr+(0.0031)Lys;0.788,0.819,0.810,0.807,0.803,0.857,0.800,0.817,(4.3175)+(0.0115)Gln+(-0.1309)His+(-0.0331)Cit+(0.0116)Tyr+(-0.1109)Met;0.788,0.819,0.719,0

.716,0.715,0.744,0.721,0.724,(-4.0486)+(0.0573)Ser+(-0.0063)Gly+(0.00
98)Pro+(-0.4200)Met+(0.1026)Phe;0.788,0.820,0.826,0.833,0.831,0.813,0
.808,0.821,(4.1722)+(0.0059)Gln+(0.0186)Tyr+(-0.1853)Met+(0.0142)Leu+
(-0.1473)Trp;0.788,0.819,0.739,0.743,0.762,0.775,0.655,0.734,(-2.8835
)+(0.0490)Ser+(-0.0817)Cit+(-0.3649)Met+(-0.0013)Leu+(0.1211)Phe;0.78
8,0.814,0.774,0.761,0.761,0.810,0.808,0.785,(5.2383)+(-0.1283)His+(-0
.0036)Ala+(-0.0075)Arg+(-0.0043)Val+(0.0914)Phe;0.788,0.820,0.791,0.7
98,0.800,0.776,0.761,0.784,(5.2234)+(-0.0023)Gly+(0.0061)Thr+(0.0026)
Pro+(0.0125)Orn+(-0.1576)Trp;0.788,0.815,0.757,0.723,0.757,0.806,0.80
8,0.774,(5.7467)+(0.0350)Asn+(-0.1168)His+(0.0020)Pro+(-0.1839)Met+(0
.0636)Ile;0.788,0.819,0.808,0.815,0.816,0.807,0.772,0.802,(6.4027)+(0
.0009)Gly+(0.0088)Pro+(0.0145)Tyr+(-0.1495)Met+(-0.1324)Trp;0.788,0.8
14,0.715,0.668,0.736,0.812,0.722,0.735,(4.5826)+(0.0055)Gly+(-0.1330)
His+(-0.0675)Cit+(0.0368)Orn+(0.0424)Ile;0.788,0.817,0.744,0.737,0.73
0,0.765,0.779,0.753,(4.7776)+(-0.1343)His+(0.0046)Pro+(-0.0467)Tyr+(0
.0013)Lys+(0.0956)Phe;0.788,0.817,0.784,0.800,0.786,0.784,0.741,0.778
,(5.4653)+(0.0050)Pro+(-0.0187)Tyr+(0.0189)Orn+(-0.0016)Lys+(-0.1425)
Trp;0.788,0.812,0.713,0.673,0.724,0.800,0.734,0.733,(4.7884)+(0.0046)
Gly+(-0.1372)His+(0.0106)Thr+(-0.0456)Cit+(0.0496)Ile;0.788,0.821,0.8
08,0.821,0.799,0.813,0.788,0.805,(6.2719)+(-0.0064)Ala+(-0.0135)Arg+(
0.0113)Pro+(0.0056)Lys+(-0.14
02)Trp;0.788,0.820,0.816,0.817,0.811,0.818,0.826,0.818,(7.2367)+(-0.0
303)Asn+(-0.0260)Val+(-0.0978)Met+(0.0584)Leu+(-0.1261)Trp;0.788,0.81
9,0.780,0.766,0.782,0.781,0.810,0.785,(4.8888)+(0.0000)Gly+(-0.0016)P
ro+(-0.0076)Lys+(0.0573)Ile+(-0.1615)Trp;0.788,0.813,0.762,0.732,0.77
2,0.829,0.769,0.776,(3.7083)+(0.0085)Gln+(-0.1515)His+(-0.0613)Cit+(0
.0345)Orn+(0.0086)Leu;0.788,0.823,0.768,0.737,0.772,0.838,0.793,0.785
,(4.9283)+(-0.1229)His+(-0.0067)Ala+(-0.0742)Cit+(0.0470)Orn+(0.0753)

Phe;0.788,0.816,0.741,0.697,0.744,0.809,0.798,0.762,(5.5844)+(-0.1344)His+(-0.0026)Pro+(0.0249)Orn+(-0.0059)Lys+(0.0463)Ile;0.788,0.818,0.735,0.727,0.659,0.846,0.832,0.766,(0.2739)+(0.0263)Ser+(-0.0029)Gln+(-0.0125)Ala+(0.1711)Ile+(-0.0836)Leu;0.788,0.818,0.784,0.765,0.785,0.854,0.784,0.797,(4.5727)+(0.0081)Gln+(-0.1311)His+(-0.0047)Ala+(-0.0723)Cit+(0.0462)Orn;0.788,0.813,0.811,0.823,0.812,0.819,0.774,0.807,(6.1700)+(-0.0023)Ala+(-0.1121)Met+(0.0256)Orn+(0.0051)Lys+(-0.1324)Trp;0.788,0.812,0.736,0.702,0.734,0.805,0.779,0.755,(5.3628)+(-0.0274)Asn+(0.0049)Gly+(-0.1313)His+(-0.0012)Pro+(0.0503)Ile;0.788,0.820,0.786,0.795,0.795,0.787,0.741,0.780,(5.1778)+(0.0066)Thr+(0.0029)Pro+(0.0143)Orn+(-0.0049)Lys+(-0.1520)Trp;0.788,0.817,0.811,0.821,0.821,0.813,0.761,0.804,(6.9584)+(-0.0324)Asn+(-0.0060)Arg+(-0.0797)Met+(0.0299)Orn+(-0.1261)Trp;0.788,0.817,0.779,0.763,0.764,0.817,0.826,0.792,(5.3087)+(-0.0287)Asn+(-0.1283)His+(-0.0043)Ala+(0.0016)Lys+(0.0832)Phe;0.788,0.821,0.758,0.752,0.761,0.840,0.710,0.766,(4.5671)+(0.0401)Ser+(-0.1163)His+(-0.0120)Arg+(-0.1113)Met+(0.0086)Lys;0.788,0.816,0.738,0.722,0.737,0.799,0.735,0.748,(-1.6831)+(0.0493)Ser+(-0.0720)Asn+(0.0017)Gln+(-0.2978)Met+(0.0616)Ile;0.788,0.817,0.789,0.809,0.790,0.784,0.737,0.780,(4.6317)+(0.0022)Gln+(0.0057)Thr+(-0.0198)Tyr+(0.0146)Orn+(-0.1506)Trp;0.788,0.820,0.755,0.728,0.758,0.797,0.793,0.769,(4.7930)+(-0.0359)Asn+(-0.1348)His+(0.0253)Orn+(-0.0051)Leu+(0.0728)Phe;0.788,0.813,0.748,0.718,0.747,0.823,0.777,0.766,(5.9312)+(-0.1407)His+(0.0128)Thr+(-0.0049)Ala+(0.0248)Orn+(0.0139)Leu;0.788,0.819,0.810,0.814,0.830,0.825,0.748,0.804,(6.9487)+(0.0023)Gly+(-0.0704)Cit+(0.0020)Arg+(0.0079)Tyr+(-0.1473)Trp;0.788,0.809,0.759,0.758,0.678,0.838,0.874,0.787,(2.6546)+(-0.0023)Thr+(-0.0102)Ala+(-0.0414)Val+(0.1941)Ile+(-0.0340)Leu;0.788,0.818,0.806,0.826,0.797,0.784,0.785,0.798,(4.8610)+(-0.0026)Gly+(0.0038)Gln+(0.0057)Pro+(-0.0201)Tyr+(-0.1479)Trp;0.788,0.82

1,0.793,0.802,0.798,0.778,0.769,0.787,(4.1302)+(0.0021)Gln+(0.0024)Pro+(0.0103)Orn+(0.0036)Leu+(-0.1605)Trp;0.788,0.816,0.789,0.804,0.789,0.779,0.759,0.783,(5.7106)+(-0.0020)Gly+(0.0051)Pro+(-0.0209)Tyr+(0.0193)Orn+(-0.1433)Trp;0.788,0.818,0.728,0.703,0.736,0.794,0.732,0.741,(3.8825)+(0.0051)Gly+(-0.1478)His+(-0.0140)Arg+(0.0226)Orn+(0.0744)Phe;0.788,0.816,0.729,0.712,0.731,0.796,0.721,0.740,(-1.3274)+(0.0507)Ser+(-0.0648)Asn+(-0.2960)Met+(0.0016)Orn+(0.0622)Ile;0.788,0.814,0.749,0.735,0.748,0.844,0.722,0.762,(4.6365)+(0.0368)Ser+(-0.1194)His+(-0.0022)Ala+(-0.0310)Cit+(0.0021)Tyr;0.788,0.824,0.724,0.698,0.751,0.811,0.675,0.734,(-0.9316)+(0.0452)Ser+(-0.0912)Cit+(-0.3344)Met+(0.0209)Orn+(0.0635)Ile;0.788,0.818,0.765,0.745,0.747,0.812,0.822,0.781,(4.8722)+(-0.1320)His+(-0.0063)Ala+(0.0068)Pro+(-0.0011)Lys+(0.0782)Phe;0.788,0.814,0.736,0.709,0.744,0.789,0.756,0.749,(4.5661)+(-0.1453)His+(0.0167)Thr+(-0.0353)Cit+(-0.0063)Val+(0.0869)Phe;0.788,0.822,0.840,0.860,0.833,0.831,0.807,0.833,(5.3575)+(-0.0757)Asn+(0.0072)Gln+(-0.0095)Arg+(-0.0007)Tyr+(-0.1365)Trp;0.788,0.817,0.815,0.836,0.814,0.830,0.750,0.808,(5.2280)+(0.0041)Gln+(0.0147)Thr+(-0.0044)Ala+(-0.0208)Arg+(-0.1496)Trp;0.788,0.811,0.770,0.758,0.768,0.825,0.770,0.780,(4.0505)+(0.0090)Gln+(-0.1526)His+(0.0080)Thr+(-0.0386)Cit+(0.0033)Val;0.788,0.810,0.772,0.769,0.758,0.818,0.777,0.780,(4.2100)+(-0.0005)Gly+(0.0092)Gln+(-0.1440)His+(0.0056)Pro+(-0.0177)Tyr;0.788,0.821,0.795,0.808,0.802,0.806,0.736,0.788,(5.9646)+(-0.0174)Arg+(0.0056)Pro+(-0.0052)Val+(0.0254)Orn+(-0.1388)Trp;0.788,0.814,0.769,0.755,0.760,0.791,0.808,0.779,(5.2948)+(-0.0461)Asn+(-0.1248)His+(-0.0086)Val+(0.0038)Lys+(0.0911)Phe;0.788,0.818,0.744,0.707,0.742,0.792,0.811,0.763,(4.6989)+(-0.1388)His+(-0.0052)Arg+(-0.0057)Lys+(0.0359)Ile+(0.0563)Phe;0.788,0.811,0.766,0.762,0.710,0.831,0.848,0.788,(5.4754)+(-0.1126)Asn+(-0.0126)Arg+(-0.0572)Val+(0.0031)Lys+(0.1673)Ile;0.788,0.822,0.815,0.814,0

.807,0.815,0.832,0.817,(7.1195)+(-0.0635)Asn+(0.0050)Tyr+(-0.0264)Val+(0.0530)Leu+(-0.1337)Trp;0.788,0.819,0.803,0.820,0.800,0.795,0.771,0.797,(4.5570)+(0.0030)Gln+(0.0048)Pro+(-0.0026)Val+(-0.0016)Lys+(-0.1497)Trp;0.788,0.815,0.754,0.748,0.738,0.775,0.787,0.762,(4.9044)+(-0.1350)His+(-0.0424)Tyr+(0.0019)Lys+(0.0001)Leu+(0.0980)Phe;0.788,0.821,0.802,0.815,0.809,0.788,0.765,0.794,(6.4267)+(-0.0086)Arg+(0.0097)Pro+(-0.1470)Met+(0.0104)Lys+(-0.1375)Trp;0.788,0.821,0.813,0.824,0.816,0.809,0.781,0.807,(4.3194)+(0.0051)Gln+(-0.1613)Met+(0.0159)Orn+(0.0119)Leu+(-0.1424)Trp;0.788,0.820,0.823,0.835,0.822,0.808,0.805,0.818,(4.4329)+(-0.0008)Gly+(0.0060)Gln+(-0.1544)Met+(0.0147)Leu+(-0.1434)Trp;0.788,0.820,0.715,0.726,0.726,0.755,0.634,0.710,(-3.8529)+(0.0440)Ser+(-0.0007)Gln+(0.0126)Thr+(-0.4287)Met+(0.1106)Phe;0.788,0.815,0.758,0.726,0.757,0.809,0.811,0.776,(5.7509)+(0.0340)Asn+(-0.1180)His+(0.0019)Arg+(-0.1801)Met+(0.0659)Ile;0.788,0.809,0.765,0.763,0.708,0.830,0.846,0.786,(5.4233)+(-0.0994)Asn+(-0.0128)Arg+(-0.0502)Val+(0.1802)Ile+(-0.0190)Leu;0.788,0.819,0.738,0.707,0.734,0.799,0.783,0.756,(5.8946)+(-0.1284)His+(-0.0317)Tyr+(0.0284)Orn+(-0.0027)Lys+(0.0478)Ile;0.788,0.817,0.749,0.738,0.742,0.774,0.772,0.757,(5.0831)+(-0.1268)His+(-0.0321)Cit+(0.0052)Pro+(-0.0465)Tyr+(0.1008)Phe;0.788,0.810,0.766,0.761,0.706,0.834,0.856,0.789,(5.1757)+(-0.1172)Asn+(-0.0015)Pro+(-0.0507)Val+(0.1773)Ile+(-0.0161)Leu;0.788,0.815,0.762,0.760,0.746,0.784,0.782,0.768,(5.2678)+(-0.1265)His+(-0.0067)Arg+(-0.0371)Tyr+(-0.0043)Val+(0.1073)Phe;0.788,0.810,0.761,0.737,0.758,0.821,0.786,0.776,(6.8692)+(-0.0377)Asn+(-0.1321)His+(0.0203)Thr+(-0.0043)Ala+(0.0170)Leu;0.788,0.822,0.717,0.724,0.727,0.758,0.645,0.714,(-3.8879)+(0.0512)Ser+(-0.0196)Arg+(0.0102)Pro+(-0.4046)Met+(0.1112)Phe;0.788,0.821,0.799,0.810,0.814,0.800,0.738,0.791,(7.0039)+(-0.0731)Asn+(0.0207)Thr+(-0.0131)Arg+(0.0084)Leu+(-0.1492)Trp;0.788,0.811,0.779,0.770,0.772,0.831,0

.782,0.789,(4.1804)+(0.0098)Gln+(-0.1428)His+(-0.0358)Cit+(0.0043)Pro+(-0.0020)Lys;0.788,0.819,0.810,0.817,0.817,0.808,0.780,0.805,(6.6129)+(0.0091)Pro+(0.0141)Tyr+(-0.0011)Val+(-0.1446)Met+(-0.1309)Trp;0.787,0.823,0.734,0.710,0.746,0.802,0.722,0.745,(-0.9031)+(0.0522)Ser+(-0.0036)Gly+(-0.0695)Cit+(-0.3308)Met+(0.0690)Ile;0.787,0.815,0.746,0.711,0.746,0.790,0.811,0.764,(4.7953)+(-0.0209)Asn+(-0.1374)His+(-0.0057)Arg+(0.0318)Ile+(0.0549)Phe;0.787,0.818,0.806,0.815,0.795,0.814,0.797,0.805,(4.4789)+(0.0028)Gln+(0.0087)Thr+(-0.0062)Ala+(0.0132)Leu+(-0.1592)Trp;0.787,0.817,0.806,0.806,0.790,0.815,0.830,0.810,(5.9949)+(0.0002)Gly+(-0.0044)Ala+(-0.0226)Val+(0.0516)Leu+(-0.1441)Trp;0.787,0.817,0.771,0.757,0.778,0.836,0.749,0.780,(4.4661)+(0.0082)Gln+(-0.1342)His+(-0.0666)Cit+(-0.0216)Tyr+(0.0449)Orn;0.787,0.811,0.731,0.690,0.738,0.805,0.772,0.751,(5.5005)+(-0.1373)His+(0.0143)Thr+(-0.0382)Cit+(-0.0033)Pro+(0.0500)Ile;0.787,0.824,0.840,0.855,0.840,0.836,0.803,0.833,(4.7135)+(0.0067)Gln+(-0.0092)Arg+(0.0223)Tyr+(-0.1553)Met+(-0.1387)Trp;0.787,0.811,0.774,0.761,0.767,0.822,0.788,0.785,(3.9206)+(0.0101)Gln+(-0.1491)His+(-0.0371)Cit+(-0.0171)Tyr+(0.0165)Leu;0.787,0.810,0.758,0.752,0.699,0.834,0.843,0.782,(4.9434)+(-0.1341)Asn+(0.0030)Gly+(-0.0561)Val+(0.0007)Lys+(0.1660)Ile;0.787,0.813,0.741,0.725,0.750,0.833,0.698,0.752,(4.5958)+(0.0382)Ser+(-0.1243)His+(-0.0202)Cit+(-0.0113)Arg+(0.0017)Lys;0.787,0.819,0.775,0.766,0.784,0.771,0.781,0.776,(4.8810)+(0.0003)Gly+(-0.0176)Arg+(0.0092)Orn+(0.0495)Ile+(-0.1645)Trp;0.787,0.818,0.789,0.783,0.739,0.872,0.852,0.812,(4.1086)+(-0.0117)Ala+(-0.0863)Cit+(-0.0059)Lys+(0.1779)Ile+(-0.0794)Leu;0.787,0.817,0.765,0.761,0.752,0.783,0.790,0.772,(5.4486)+(-0.0205)Asn+(-0.1263)His+(-0.0036)Arg+(-0.0393)Tyr+(0.1010)Phe;0.787,0.816,0.819,0.837,0.814,0.827,0.778,0.814,(4.9228)+(0.0043)Gln+(-0.0046)Ala+(-0.0183)Arg+(0.0246)Orn+(-0.1420)Trp;0.787,0.816,0.726,0.709,0.727,0.791,0.721,0.737,(

-1.3375)+(0.0510)Ser+(-0.0639)Asn+(0.0035)Pro+(-0.3059)Met+(0.0587)Ile;0.787,0.816,0.806,0.811,0.815,0.803,0.773,0.801,(6.5107)+(-0.0309)Asn+(-0.1040)Met+(0.0240)Orn+(0.0103)Leu+(-0.1337)Trp;0.787,0.816,0.816,0.832,0.806,0.824,0.790,0.813,(4.6959)+(0.0030)Gln+(-0.0050)Ala+(-0.0010)Val+(0.0200)Orn+(-0.1437)Trp;0.787,0.814,0.787,0.784,0.780,0.831,0.777,0.793,(3.9773)+(0.0114)Gln+(-0.1538)His+(-0.0200)Arg+(0.0022)Val+(0.0029)Lys;0.787,0.817,0.806,0.807,0.791,0.815,0.831,0.811,(6.0404)+(-0.0043)Ala+(-0.0226)Val+(-0.0002)Lys+(0.0516)Leu+(-0.1438)Trp;0.787,0.813,0.817,0.832,0.820,0.806,0.777,0.809,(6.9406)+(-0.0391)Asn+(0.0009)Gly+(-0.0886)Met+(0.0101)Lys+(-0.1342)Trp;0.787,0.824,0.770,0.761,0.780,0.777,0.763,0.771,(4.8858)+(0.0123)Thr+(-0.0226)Arg+(-0.0016)Pro+(0.0524)Ile+(-0.1715)Trp;0.787,0.820,0.829,0.851,0.827,0.821,0.780,0.820,(4.6998)+(0.0063)Gln+(-0.0126)Arg+(-0.1376)Met+(0.0083)Lys+(-0.1397)Trp;0.787,0.815,0.737,0.714,0.727,0.798,0.773,0.753,(5.7677)+(-0.0210)Asn+(0.0042)Gly+(-0.1251)His+(-0.0221)Tyr+(0.0538)Ile;0.787,0.812,0.720,0.734,0.686,0.808,0.688,0.729,(0.9109)+(0.0302)Ser+(-0.0372)Arg+(-0.0445)Tyr+(0.1738)Ile+(-0.0913)Leu;0.787,0.819,0.758,0.736,0.753,0.825,0.782,0.774,(4.8075)+(-0.1388)His+(0.0180)Thr+(-0.0058)Ala+(-0.0432)Cit+(0.0853)Phe;0.787,0.818,0.811,0.815,0.801,0.854,0.791,0.815,(4.5054)+(0.0122)Gln+(-0.1295)His+(-0.0262)Cit+(-0.0095)Arg+(-0.0816)Met;0.787,0.814,0.758,0.727,0.756,0.807,0.809,0.775,(5.7128)+(0.0329)Asn+(-0.1198)His+(-0.1845)Met+(0.0031)Lys+(0.0642)Ile;0.787,0.819,0.798,0.799,0.792,0.794,0.808,0.798,(5.8139)+(-0.0003)Gly+(-0.0233)Val+(-0.0016)Lys+(0.0478)Leu+(-0.1488)Trp;0.787,0.817,0.797,0.803,0.805,0.790,0.770,0.792,(6.1930)+(0.0008)Gly+(0.0080)Pro+(-0.1448)Met+(0.0122)Leu+(-0.1368)Trp;0.787,0.815,0.765,0.763,0.764,0.841,0.715,0.771,(2.0353)+(0.0403)Ser+(-0.0086)Ala+(-0.0811)Cit+(0.0193)Pro+(-0.2333)Met;0.787,0.812,0.735,0.716,0.738,0.788,0.738,0.745,(4.1190)+(0.0

056)Gly+(-0.1456)His+(-0.0114)Arg+(-0.0008)Leu+(0.0850)Phe;0.787,0.82
1,0.724,0.731,0.741,0.776,0.6
35,0.721,(-3.3946)+(0.0434)Ser+(0.0159)Thr+(-0.4012)Met+(-0.0120)Lys+
(0.1170)Phe;0.787,0.815,0.817,0.832,0.807,0.824,0.792,0.814,(4.7285)+
(0.0033)Gln+(-0.0050)Ala+(0.0205)Orn+(-0.0025)Lys+(-0.1426)Trp;0.787,
0.821,0.793,0.811,0.786,0.783,0.766,0.787,(4.4356)+(0.0030)Gln+(0.004
6)Pro+(-0.0195)Tyr+(0.0065)Leu+(-0.1541)Trp;0.787,0.810,0.753,0.750,0
.670,0.839,0.870,0.782,(2.4761)+(-0.0113)Ala+(0.0040)Pro+(-0.0424)Val
+(0.1893)Ile+(-0.0319)Leu;0.787,0.815,0.782,0.763,0.775,0.821,0.816,0
.794,(5.6605)+(-0.0256)Asn+(-0.1192)His+(-0.0047)Ala+(-0.0359)Cit+(0.
0897)Phe;0.787,0.820,0.837,0.856,0.833,0.825,0.802,0.829,(5.2029)+(-0
.0835)Asn+(0.0070)Gln+(-0.0131)Arg+(0.0065)Lys+(-0.1424)Trp;0.787,0.8
21,0.756,0.775,0.746,0.796,0.699,0.754,(-2.8293)+(0.0439)Ser+(-0.0118
)Val+(-0.3435)Met+(-0.0038)Lys+(0.1296)Phe;0.787,0.815,0.743,0.700,0.
747,0.809,0.800,0.764,(5.6941)+(-0.0155)Asn+(-0.1306)His+(0.0243)Orn+
(-0.0048)Lys+(0.0420)Ile;0.787,0.811,0.783,0.785,0.771,0.829,0.771,0.
789,(4.2827)+(0.0111)Gln+(-0.1429)His+(-0.0183)Arg+(0.0061)Pro+(-0.01
46)Tyr;0.787,0.818,0.814,0.820,0.811,0.820,0.801,0.813,(6.5790)+(-0.0
530)Asn+(-0.0043)Ala+(0.0241)Orn+(0.0094)Leu+(-0.1358)Trp;0.787,0.818
,0.804,0.811,0.809,0.790,0.784,0.799,(6.5299)+(-0.0588)Asn+(0.0008)Gl
y+(0.0052)Pro+(0.0067)Leu+(-0.1414)Trp;0.787,0.816,0.770,0.766,0.752,
0.800,0.800,0.779,(5.3335)+(-0.1273)His+(-0.0028)Ala+(-0.0055)Arg+(-0
.0342)Tyr+(0.1021)Phe;0.787,0.817,0.804,0.815,0.809,0.803,0.762,0.797
,(6.7046)+(0.0007)Gly+(-0.0032)Arg+(0.0097)Pro+(-0.1231)Met+(-0.1283)
Trp;0.787,0.813,0.731,0.705,0.721,0.794,0.771,0.748,(5.4947)+(0.0036)
Gly+(-0.1298)His+(0.0003)Pro+(-0.0245)Tyr+(0.0535)Ile;0.787,0.819,0.7
35,0.693,0.739,0.796,0.793,0.755,(4.4139)+(-0.1446)His+(-0.0105)Arg+(
0.0189)Orn+(0.0284)Ile+(0.0485)Phe;0.787,0.824,0.762,0.746,0.772,0.85

5,0.718,0.773,(4.5133)+(0.0419)Ser+(-0.1110)His+(-0.0273)Cit+(0.0211)Tyr+(-0.1312)Met;0.787,0.819,0.802,0.812,0.807,0.785,0.776,0.795,(4.6037)+(-0.0029)Gly+(0.0023)Gln+(0.0053)Thr+(0.0115)Orn+(-0.1595)Trp;0.787,0.819,0.798,0.802,0.791,0.789,0.806,0.797,(5.8736)+(-0.0005)Gly+(-0.0061)Tyr+(-0.0228)Val+(0.0469)Leu+(-0.1477)Trp;0.787,0.810,0.768,0.756,0.765,0.824,0.768,0.778,(4.1559)+(0.0088)Gln+(-0.1480)His+(0.0073)Thr+(-0.0373)Cit+(0.0033)Pro;0.787,0.819,0.698,0.701,0.705,0.744,0.639,0.697,(-4.4896)+(0.0461)Ser+(0.0097)Thr+(0.0090)Pro+(-0.4616)Met+(0.1092)Phe;0.787,0.816,0.757,0.749,0.746,0.781,0.781,0.764,(5.1759)+(-0.1281)His+(-0.0304)Cit+(-0.0418)Tyr+(0.0014)Lys+(0.1023)Phe;0.787,0.813,0.738,0.735,0.657,0.847,0.839,0.769,(-0.5664)+(0.0215)Ser+(-0.0136)Ala+(0.0037)Pro+(0.1655)Ile+(-0.0843)Leu;0.787,0.816,0.755,0.733,0.740,0.812,0.800,0.771,(5.7008)+(-0.1068)His+(-0.0143)Arg+(0.0041)Lys+(0.1160)Ile+(-0.0523)Leu;0.787,0.821,0.832,0.850,0.827,0.822,0.803,0.826,(4.8190)+(-0.0013)Gly+(0.0063)Gln+(0.0016)Val+(-0.1320)Met+(-0.1372)Trp;0.787,0.820,0.758,0.775,0.752,0.794,0.696,0.754,(-3.0174)+(0.0469)Ser+(-0.0036)Ala+(-0.0170)Arg+(-0.3291)Met+(0.1131)Phe;0.787,0.819,0.809,0.819,0.817,0.800,0.776,0.803,(6.5138)+(-0.0676)Asn+(0.0001)Gly+(0.0223)Orn+(0.0030)Lys+(-0.1377)Trp;0.787,0.813,0.794,0.797,0.783,0.840,0.778,0.800,(4.3927)+(0.0000)Gly+(0.0113)Gln+(-0.1438)His+(-0.0175)Arg+(-0.0060)Tyr;0.787,0.812,0.822,0.837,0.823,0.809,0.791,0.815,(7.1203)+(-0.0374)Asn+(-0.0012)Ala+(-0.0789)Met+(0.0102)Lys+(-0.1329)Trp;0.787,0.810,0.784,0.783,0.769,0.827,0.789,0.792,(4.3216)+(-0.0005)Gly+(0.0094)Gln+(-0.1450)His+(-0.0102)Tyr+(0.0005)Lys;0.787,0.819,0.748,0.735,0.754,0.806,0.725,0.755,(6.9669)+(-0.0434)Asn+(-0.1223)His+(0.0176)Thr+(-0.0258)Tyr+(0.0337)Orn;0.787,0.816,0.808,0.815,0.824,0.819,0.747,0.801,(6.9537)+(0.0020)Gly+(-0.0677)Cit+(0.0009)Arg+(0.0027)Lys+(-0.1463)Trp;0.787,0.814,0.772,0.753,0.761,0.816,0.815,0.786,

(5.1780)+(-0.1328)His+(-0.0045)Ala+(-0.0064)Arg+(0.0025)Leu+(0.0810)Phe;0.787,0.819,0.801,0.812,0.801,0.788,0.782,0.796,(4.3027)+(0.0031)Gln+(0.0031)Pro+(-0.0046)Lys+(0.0077)Leu+(-0.1578)Trp;0.787,0.814,0.792,0.785,0.773,0.849,0.807,0.803,(4.4703)+(0.0095)Gln+(-0.1323)His+(-0.0054)Ala+(-0.0403)Cit+(0.0090)Pro;0.787,0.811,0.752,0.747,0.672,0.842,0.867,0.782,(2.2226)+(-0.0107)Ala+(-0.0432)Val+(0.0123)Orn+(0.1902)Ile+(-0.0318)Leu;0.787,0.813,0.745,0.718,0.742,0.811,0.778,0.762,(6.2362)+(-0.1245)His+(-0.0179)Tyr+(-0.0223)Val+(0.0383)Orn+(0.0437)Leu;0.787,0.820,0.820,0.833,0.819,0.808,0.798,0.815,(4.3037)+(0.0057)Gln+(-0.1607)Met+(0.0026)Lys+(0.0138)Leu+(-0.1450)Trp;0.787,0.818,0.817,0.824,0.821,0.828,0.784,0.814,(6.2824)+(-0.0027)Ala+(0.0169)Tyr+(-0.1209)Met+(0.0264)Orn+(-0.1314)Trp;0.787,0.817,0.716,0.677,0.739,0.806,0.707,0.732,(3.4491)+(0.0062)Gly+(-0.1431)His+(-0.0698)Cit+(0.0386)Orn+(0.0734)Phe;0.787,0.820,0.809,0.822,0.798,0.819,0.788,0.807,(6.5645)+(-0.0060)Ala+(-0.0094)Arg+(0.0115)Pro+(-0.0013)Tyr+(-0.1339)Trp;0.787,0.817,0.754,0.765,0.744,0.796,0.711,0.754,(-2.9630)+(0.0455)Ser+(-0.0034)Ala+(-0.3262)Met+(-0.0084)Lys+(0.1134)Phe;0.787,0.814,0.743,0.701,0.747,0.796,0.808,0.763,(4.8468)+(-0.1304)His+(-0.0390)Cit+(-0.0082)Lys+(0.0397)Ile+(0.0601)Phe;0.787,0.811,0.775,0.774,0.766,0.829,0.755,0.781,(4.6012)+(0.0086)Gln+(-0.1404)His+(0.0111)Thr+(-0.0367)Cit+(-0.0152)Tyr;0.787,0.819,0.723,0.738,0.732,0.756,0.638,0.716,(-3.9005)+(0.0424)Ser+(0.0124)Thr+(-0.4233)Met+(-0.0044)Leu+(0.1140)Phe;0.787,0.812,0.702,0.684,0.644,0.817,0.789,0.734,(0.4878)+(0.0269)Ser+(-0.0442)Val+(-0.0209)Lys+(0.1755)Ile+(-0.0232)Leu;0.787,0.820,0.792,0.805,0.799,0.799,0.738,0.785,(5.3903)+(0.0074)Thr+(-0.0033)Val+(0.0184)Orn+(-0.0037)Lys+(-0.1465)Trp;0.787,0.815,0.751,0.740,0.749,0.818,0.737,0.761,(6.4872)+(-0.1272)His+(0.0137)Thr+(-0.0027)Ala+(-0.0207)Tyr+(0.0337)Orn;0.787,0.818,0.791,0.807,0.804,0.809,0.707,0.782,(6.0194)+(0.0

126)Thr+(-0.0224)Arg+(-0.0044)Val+(0.0231)Orn+(-0.1462)Trp;0.787,0.82
0,0.774,0.788,0.778,0.770,0.734,0.768,(5.3058)+(0.0090)Thr+(0.0043)Pr
o+(-0.0223)Tyr+(0.0073)Leu+(-0.1551)Trp;0.787,0.819,0.796,0.809,0.802
,0.794,0.751,0.789,(4.5397)+(0.0023)Gln+(0.0058)Thr+(0.0139)Orn+(-0.0
057)Lys+(-0.1531)Trp;0.786,0.813,0.790,0.783,0.786,0.835,0.782,0.797,
(4.0555)+(0.0115)Gln+(-0.1491)His+(-0.0268)Cit+(-0.0141)Arg+(0.0037)V
al;0.786,0.820,0.801,0.816,0.808,0.799,0.746,0.792,(4.5747)+(0.0036)G
ln+(-0.0213)Arg+(0.0038)Pro+(0.0175)Orn+(-0.1531)Trp;0.786,0.816,0.79
7,0.819,0.794,0.794,0.748,0.789,(4.8054)+(0.0027)Gln+(0.0080)Thr+(-0.
0155)Tyr+(-0.0012)Val+(-0.1499)Trp;0.786,0.814,0.761,0.736,0.773,0.83
2,0.752,0.773,(4.0978)+(0.0078)Gln+(-0.1461)His+(0.0044)Thr+(-0.0633)
Cit+(0.0375)Orn;0.786,0.822,0.761,0.753,0.766,0.849,0.708,0.769,(4.96
50)+(0.0404)Ser+(-0.1078)His+(-0.0231)Cit+(-0.0048)Arg+(-0.0855)Met;0
.786,0.819,0.804,0.814,0.804,0.780,0.793,0.798,(4.3807)+(-0.0020)Gly+
(0.0030)Gln+(0.0031)Pro+(0.0047)Leu+(-0.1606)Trp;0.786,0.818,0.815,0.
833,0.803,0.828,0.781,0.811,(4.9803)+(0.0032)Gln+(0.0102)Thr+(-0.0047
)Ala+(-0.0030)Lys+(-0.1476)Trp;0.786,0.819,0.750,0.718,0.755,0.792,0.
793,0.765,(4.7628)+(-0.0345)Asn+(-0.1375)His+(0.0004)Pro+(0.0237)Orn+
(0.0664)Phe;0.786,0.812,0.756,0.736,0.757,0.824,0.761,0.769,(6.3459)+
(-0.1296)His+(0.0123)Thr+(-0.0036)Ala+(0.0310)Orn+(-0.0020)Lys;0.786,
0.815,0.757,0.752,0.744,0.780,0.781,0.764,(5.2127)+(-0.1312)His+(-0.0
059)Arg+(-0.0401)Tyr+(0.0003)Leu+(0.1001)Phe;0.786,0.816,0.798,0.813,
0.793,0.814,0.758,0.795,(5.6645)+(0.0093)Thr+(-0.0048)Ala+(-0.0092)Ty
r+(0.0198)Orn+(-0.1434)Trp;0.786,0.818,0.794,0.802,0.801,0.785,0.761,
0.787,(5.7650)+(-0.0023)Gly+(0.0103)Thr+(0.0036)Pro+(-0.0036)Lys+(-0.
1539)Trp;0.786,0.811,0.787,0.787,0.778,0.834,0.771,0.793,(4.0748)+(0.
0004)Gly+(0.0111)Gln+(-0.1507)His+(-0.0207)Arg+(0.0041)Lys;0.786,0.81
3,0.746,0.740,0.661,0.841,0.871,0.778,(2.1085)+(-0.0118)Ala+(0.0039)P

ro+(-0.0537)Val+(0.0125)Orn+(0.1659)Ile;0.786,0.821,0.725,0.704,0.743,0.803,0.690,0.735,(-0.9320)+(0.0477)Ser+(-0.0730)Cit+(-0.0026)Arg+(-0.3289)Met+(0.0706)Ile;0.786,0.814,0.743,0.729,0.751,0.835,0.699,0.754,(4.7100)+(0.0383)Ser+(-0.1219)His+(-0.0210)Cit+(-0.0101)Arg+(-0.0012)Tyr;0.786,0.808,0.747,0.723,0.741,0.819,0.768,0.763,(5.9837)+(0.0021)Gly+(-0.1407)His+(0.0153)Thr+(-0.0046)Ala+(0.0183)Leu;0.786,0.815,0.758,0.726,0.757,0.808,0.808,0.775,(5.8301)+(0.0343)Asn+(-0.1173)His+(-0.0013)Tyr+(-0.1756)Met+(0.0657)Ile;0.786,0.814,0.812,0.824,0.812,0.822,0.773,0.808,(6.3972)+(-0.0023)Ala+(-0.0005)Val+(-0.0978)Met+(0.0288)Orn+(-0.1270)Trp;0.786,0.820,0.803,0.819,0.818,0.801,0.731,0.792,(7.2376)+(-0.0769)Asn+(0.0200)Thr+(-0.0147)Arg+(0.0046)Lys+(-0.1451)Trp;0.786,0.818,0.771,0.774,0.753,0.832,0.758,0.779,(0.2768)+(0.0457)Ser+(-0.1563)Asn+(-0.0083)Ala+(-0.0820)Cit+(0.0826)Phe;0.786,0.817,0.802,0.819,0.804,0.801,0.755,0.795,(4.7207)+(0.0027)Gln+(0.0078)Thr+(-0.0013)Val+(-0.0038)Lys+(-0.1522)Trp;0.786,0.813,0.751,0.730,0.746,0.821,0.770,0.767,(6.0701)+(-0.1281)His+(0.0100)Thr+(-0.0057)Ala+(0.0069)Pro+(0.0274)Orn;0.786,0.813,0.812,0.823,0.813,0.820,0.775,0.808,(6.4309)+(-0.0004)Gly+(-0.0023)Ala+(-0.0977)Met+(0.0285)Orn+(-0.1276)Trp;0.786,0.818,0.790,0.796,0.800,0.771,0.771,0.784,(5.1374)+(-0.0014)Gly+(0.0029)Pro+(0.0143)Orn+(0.0033)Leu+(-0.1557)Trp;0.786,0.816,0.820,0.836,0.808,0.822,0.803,0.817,(5.1395)+(-0.0030)Gly+(0.0034)Gln+(0.0107)Thr+(-0.0049)Ala+(-0.1512)Trp;0.786,0.810,0.773,0.765,0.767,0.830,0.764,0.781,(4.3062)+(0.0003)Gly+(0.0087)Gln+(-0.1467)His+(0.0085)Thr+(-0.0372)Cit;0.786,0.809,0.775,0.764,0.772,0.827,0.773,0.784,(3.8688)+(0.0013)Gly+(0.0098)Gln+(-0.1497)His+(-0.0388)Cit+(0.0042)Val;0.786,0.815,0.762,0.740,0.772,0.833,0.746,0.773,(3.9871)+(0.0015)Gly+(0.0079)Gln+(-0.1436)His+(-0.0658)Cit+(0.0398)Orn;0.786,0.817,0.797,0.819,0.795,0.799,0.745,0.789,(4.8715)+(0.0029)Gln+(0.0093)Thr+(-0.0150)Tyr+

(-0.0035)Lys+(-0.1492)Trp;0.786,0.814,0.769,0.776,0.732,0.826,0.785,0.780,(4.9379)+(-0.0572)Asn+(-0.0682)Cit+(-0.0401)Tyr+(0.1583)Ile+(-0.0805)Leu;0.786,0.817,0.781,0.794,0.784,0.774,0.747,0.775,(5.2578)+(0.0044)Pro+(-0.0204)Tyr+(0.0164)Orn+(0.0047)Leu+(-0.1482)Trp;0.786,0.813,0.733,0.698,0.730,0.804,0.778,0.753,(5.1824)+(0.0042)Gly+(-0.1347)His+(-0.0015)Pro+(-0.0037)Lys+(0.0526)Ile;0.786,0.813,0.752,0.745,0.669,0.842,0.877,0.783,(2.2808)+(-0.0039)Thr+(-0.0108)Ala+(-0.0535)Val+(0.0169)Orn+(0.1684)Ile;0.786,0.815,0.809,0.823,0.810,0.792,0.782,0.802,(4.9373)+(-0.0031)Gly+(0.0028)Gln+(0.0081)Thr+(-0.0024)Val+(-0.1552)Trp;0.786,0.818,0.795,0.803,0.807,0.791,0.754,0.789,(5.6731)+(-0.0026)Gly+(0.0095)Thr+(0.0164)Orn

+(-0.0052)Lys+(-0.1519)Trp;0.786,0.821,0.730,0.710,0.745,0.808,0.698,0.740,(-1.3729)+(0.0454)Ser+(0.0016)Gln+(-0.0780)Cit+(-0.3402)Met+(0.0701)Ile;0.786,0.819,0.753,0.722,0.759,0.796,0.792,0.767,(4.8605)+(-0.0303)Asn+(-0.1357)His+(0.0254)Orn+(-0.0032)Lys+(0.0688)Phe;0.786,0.817,0.803,0.808,0.792,0.843,0.786,0.807,(4.0943)+(0.0122)Gln+(-0.1402)His+(-0.0184)Arg+(-0.1049)Met+(0.0094)Lys;0.786,0.816,0.807,0.820,0.812,0.811,0.757,0.800,(6.1194)+(-0.0025)Val+(-0.1263)Met+(0.0255)Orn+(0.0059)Lys+(-0.1323)Trp;0.786,0.810,0.730,0.704,0.729,0.802,0.750,0.746,(5.5500)+(0.0051)Gly+(-0.1212)His+(-0.0425)Cit+(-0.0224)Tyr+(0.0570)Ile;0.786,0.818,0.806,0.818,0.811,0.802,0.767,0.799,(6.8356)+(-0.0029)Arg+(0.0099)Pro+(-0.0007)Val+(-0.1206)Met+(-0.1275)Trp;0.786,0.810,0.766,0.760,0.710,0.832,0.850,0.788,(5.5195)+(-0.1073)Asn+(-0.0113)Arg+(-0.0000)Pro+(-0.0564)Val+(0.1676)Ile;0.786,0.816,0.729,0.694,0.704,0.836,0.799,0.758,(3.5352)+(-0.0995)Cit+(-0.0501)Val+(0.0522)Orn+(-0.0213)Lys+(0.1553)Ile;0.786,0.820,0.811,0.811,0.808,0.814,0.819,0.813,(6.6303)+(0.0018)Arg+(-0.0254)Val+(-0.1288)Met+(0.0582)Leu+(-0.1304)Trp;0.786,0.812,0.735,0.701,0.735,0.804,0.777,0.754,(5.3818)+(-0.025

3)Asn+(0.0048)Gly+(-0.1300)His+(-0.0018)Lys+(0.0499)Ile;0.786,0.820,0.834,0.850,0.830,0.821,0.810,0.828,(5.0714)+(-0.0768)Asn+(0.0069)Gln+(-0.0102)Arg+(0.0082)Leu+(-0.1444)Trp;0.786,0.814,0.715,0.685,0.729,0.784,0.712,0.728,(3.6816)+(0.0052)Gly+(-0.1529)His+(0.0131)Thr+(-0.0451)Cit+(0.0828)Phe;0.786,0.808,0.749,0.722,0.741,0.818,0.788,0.767,(6.1352)+(-0.1353)His+(0.0149)Thr+(-0.0061)Ala+(0.0060)Pro+(0.0149)Leu;0.786,0.814,0.767,0.744,0.777,0.833,0.760,0.779,(4.0819)+(0.0082)Gln+(-0.1436)His+(-0.0637)Cit+(-0.0002)Val+(0.0394)Orn;0.786,0.816,0.758,0.751,0.749,0.782,0.779,0.765,(5.2772)+(-0.1266)His+(-0.0298)Cit+(-0.0012)Arg+(-0.0405)Tyr+(0.1032)Phe;0.786,0.814,0.722,0.682,0.732,0.805,0.748,0.742,(4.9837)+(0.0042)Gly+(-0.1389)His+(-0.0114)Arg+(0.0218)Orn+(0.0429)Ile;0.786,0.815,0.804,0.825,0.799,0.788,0.773,0.796,(5.1729)+(-0.0038)Gly+(0.0032)Gln+(0.0106)Thr+(-0.0205)Tyr+(-0.1522)Trp;0.786,0.816,0.749,0.762,0.736,0.787,0.713,0.750,(-3.3831)+(0.0447)Ser+(-0.0001)Gln+(-0.0038)Ala+(-0.3504)Met+(0.1090)Phe;0.786,0.819,0.742,0.707,0.748,0.795,0.785,0.759,(4.5067)+(-0.1427)His+(0.0004)Pro+(0.0249)Orn+(-0.0053)Lys+(0.0678)Phe;0.786,0.816,0.770,0.750,0.755,0.818,0.820,0.786,(4.9996)+(-0.1348)His+(-0.0046)Ala+(-0.0010)Lys+(0.0036)Leu+(0.0786)Phe;0.786,0.817,0.755,0.750,0.743,0.776,0.776,0.761,(5.1175)+(-0.1339)His+(-0.0080)Arg+(-0.0428)Tyr+(0.0040)Lys+(0.0992)Phe;0.786,0.816,0.790,0.806,0.795,0.782,0.745,0.782,(5.8660)+(-0.0032)Gly+(0.0103)Thr+(-0.0221)Tyr+(0.0177)Orn+(-0.1484)Trp;0.786,0.810,0.770,0.767,0.756,0.816,0.775,0.779,(4.1637)+(0.0090)Gln+(-0.1444)His+(0.0056)Pro+(-0.0175)Tyr+(0.0003)Lys;0.786,0.816,0.763,0.746,0.763,0.825,0.765,0.775,(6.8643)+(-0.0421)Asn+(-0.1227)His+(0.0155)Thr+(-0.0035)Ala+(0.0308)Orn;0.786,0.818,0.788,0.804,0.787,0.783,0.749,0.781,(4.5075)+(0.0025)Gln+(0.0076)Thr+(-0.0198)Tyr+(0.0085)Leu+(-0.1584)Trp;0.786,0.819,0.767,0.731,0.774,0.814,0.816,0.784,(6.2207)+(-0.1061)His+(-0.0392)C

it+(0.0106)Arg+(-0.1516)Met+(0.0636)Ile;0.786,0.817,0.809,0.825,0.808,0.794,0.781,0.802,(4.7579)+(-0.0025)Gly+(0.0028)Gln+(-0.0039)Val+(0.0178)Orn+(-0.1487)Trp;0.786,0.820,0.797,0.815,0.808,0.801,0.719,0.786,(4.7682)+(0.0032)Gln+(0.0100)Thr+(-0.0249)Arg+(0.0164)Orn+(-0.1571)Trp;0.786,0.820,0.783,0.796,0.801,0.791,0.708,0.774,(5.6676)+(0.0111)Thr+(-0.0228)Arg+(0.0035)Pro+(0.0171)Orn+(-0.1549)Trp;0.786,0.814,0.774,0.756,0.782,0.838,0.755,0.783,(4.1493)+(0.0097)Gln+(-0.1435)His+(-0.0532)Cit+(-0.0135)Arg+(0.0381)Orn;0.786,0.810,0.752,0.731,0.746,0.826,0.767,0.768,(5.9396)+(0.0024)Gly+(-0.1224)His+(-0.0057)Ala+(0.0081)Pro+(0.0310)Orn;0.786,0.819,0.810,0.824,0.807,0.789,0.792,0.803,(4.6459)+(-0.0021)Gly+(0.0035)Gln+(0.0041)Pro+(-0.0027)Lys+(-0.1530)Trp;0.786,0.816,0.806,0.807,0.794,0.851,0.793,0.811,(4.2519)+(0.0111)Gln+(-0.1306)His+(-0.0322)Cit+(-0.1100)Met+(0.0052)Lys;0.786,0.815,0.813,0.830,0.801,0.822,0.784,0.809,(4.7999)+(0.0030)Gln+(0.0088)Thr+(-0.0050)Ala+(0.0008)Val+(-0.1507)Trp;0.786,0.813,0.810,0.822,0.815,0.821,0.761,0.805,(6.6121)+(-0.0023)Ala+(-0.0079)Arg+(-0.0877)Met+(0.0310)Orn+(-0.1262)Trp;0.786,0.813,0.740,0.724,0.743,0.833,0.706,0.752,(4.5294)+(0.0368)Ser+(-0.1229)His+(-0.0294)Cit+(-0.0028)Tyr+(-0.0005)Lys;0.786,0.812,0.820,0.835,0.823,0.806,0.785,0.812,(7.1033)+(-0.0386)Asn+(-0.0008)Val+(-0.0863)Met+(0.0105)Lys+(-0.1334)Trp;0.786,0.811,0.799,0.797,0.783,0.849,0.800,0.807,(4.5245)+(0.0100)Gln+(-0.1352)His+(-0.0027)Ala+(-0.0358)Cit+(0.0004)Lys;0.786,0.814,0.763,0.739,0.774,0.831,0.760,0.776,(3.9795)+(0.0082)Gln+(-0.1450)His+(-0.0630)Cit+(0.0019)Pro+(0.0378)Orn;0.785,0.818,0.783,0.790,0.793,0.773,0.749,0.776,(4.7712)+(0.0045)Thr+(0.0023)Pro+(0.0108)Orn+(0.0039)Leu+(-0.1602)Trp;0.785,0.810,0.782,0.777,0.775,0.827,0.780,0.790,(4.1196)+(0.0103)Gln+(-0.1450)His+(-0.0373)Cit+(-0.0140)Tyr+(0.0052)Val;0.785,0.810,0.733,0.712,0.743,0.795,0.724,0.744,(4.1119)+(0.0065)Gly+(-0.1392)His+(-0.0434)Cit+(

-0.0041)Lys+(0.0909)Phe;0.785,0.819,0.813,0.825,0.814,0.806,0.782,0.807,(7.2370)+(-0.0518)Asn+(-0.0048)Arg+(0.0076)Pro+(-0.0029)Val+(-0.1293)Trp;0.785,0.810,0.775,0.762,0.770,0.827,0.782,0.785,(3.9111)+(0.0098)Gln+(-0.1489)His+(-0.0370)Cit+(0.0033)Pro+(0.0025)Val;0.785,0.808,0.727,0.692,0.734,0.807,0.748,0.745,(5.2776)+(0.0059)Gly+(-0.1236)His+(-0.0455)Cit+(-0.0050)Lys+(0.0556)Ile;0.785,0.814,0.774,0.759,0.738,0.867,0.821,0.796,(3.2413)+(-0.0131)Ala+(-0.1178)Cit+(0.0396)Orn+(0.1706)Ile+(-0.0841)Leu;0.785,0.813,0.752,0.732,0.752,0.824,0.751,0.765,(6.1011)+(0.0011)Gly+(-0.1313)His+(0.0109)Thr+(-0.0037)Ala+(0.0302)Orn;0.785,0.820,0.727,0.702,0.718,0.803,0.754,0.744,(-1.2932)+(0.0558)Ser+(-0.0062)Gly+(-0.3108)Met+(-0.0120)Lys+(0.0715)Ile;0.785,0.812,0.772,0.755,0.761,0.813,0.811,0.785,(5.1444)+(-0.1328)His+(-0.0044)Ala+(-0.0075)Arg+(0.0015)Lys+(0.0828)Phe;0.785,0.812,0.734,0.715,0.738,0.788,0.738,0.745,(4.1087)+(0.0056)Gly+(-0.1460)His+(-0.0114)Arg+(-0.0000)Lys+(0.0839)Phe;0.785,0.810,0.785,0.780,0.778,0.837,0.778,0.793,(4.2858)+(0.0008)Gly+(0.0098)Gln+(-0.1411)His+(-0.0355)Cit+(-0.0010)Lys;0.785,0.817,0.807,0.807,0.792,0.817,0.833,0.812,(5.9594)+(-0.0046)Ala+(0.0038)Tyr+(-0.0228)Val+(0.0517)Leu+(-0.1453)Trp;0.785,0.812,0.740,0.699,0.742,0.795,0.807,0.761,(4.5727)+(-0.1376)His+(-0.0364)Cit+(-0.0027)Pro+(0.0378)Ile+(0.0545)Phe;0.785,0.814,0.726,0.704,0.719,0.790,0.753,0.742,(-2.0205)+(0.0551)Ser+(-0.0062)Gly+(-0.3540)Met+(-0.0001)Orn+(0.0650)Ile;0.785,0.817,0.809,0.819,0.815,0.803,0.770,0.802,(6.7418)+(-0.0597)Asn+(-0.0002)Gly+(-0.0072)Tyr+(0.0257)Orn+(-0.1318)Trp;0.785,0.817,0.808,0.819,0.813,0.801,0.772,0.801,(6.9290)+(-0.0522)Asn+(0.0009)Gly+(-0.0056)Arg+(0.0067)Pro+(-0.1343)Trp;0.785,0.811,0.766,0.760,0.705,0.833,0.859,0.789,(5.2667)+(-0.1240)Asn+(-0.0007)Pro+(-0.0560)Val+(0.0005)Lys+(0.1656)Ile;0.785,0.810,0.764,0.759,0.703,0.832,0.855,0.787,(5.1346)+(-0.1214)Asn+(-0.0512)Val+(0.0013)Lys+(0.1748)Ile

+(-0.0155)Leu;0.785,0.817,0.772,0.770,0.775,0.772,0.775,0.773,(5.2219)+(-0.0154)Arg+(-0.0188)Tyr+(0.0124)Orn+(0.0514)Ile+(-0.1566)Trp;0.785,0.814,0.798,0.802,0.796,0.815,0.779,0.798,(5.6866)+(0.0140)Thr+(-0.0058)Ala+(-0.0053)Lys+(0.0163)Leu+(-0.1542)Trp;0.785,0.812,0.724,0.703,0.729,0.793,0.721,0.737,(6.0361)+(-0.1420)His+(0.0155)Thr+(-0.0328)Tyr+(0.0283)Orn+(0.0135)Leu;0.785,0.808,0.732,0.700,0.739,0.808,0.749,0.749,(5.4484)+(-0.0300)Asn+(0.0065)Gly+(-0.1208)His+(-0.0447)Cit+(0.0525)Ile;0.785,0.820,0.797,0.800,0.791,0.792,0.803,0.796,(5.8453)+(-0.0051)Tyr+(-0.0229)Val+(-0.0011)Lys+(0.0477)Leu+(-0.1474)Trp;0.785,0.817,0.811,0.820,0.820,0.816,0.766,0.806,(6.2169)+(0.0145)Tyr+(-0.0018)Val+(-0.1329)Met+(0.0262)Orn+(-0.1311)Trp;0.785,0.818,0.769,0.748,0.756,0.820,0.817,0.785,(5.1821)+(-0.1236)His+(-0.0073)Ala+(-0.0411)Cit+(0.0083)Pro+(0.0836)Phe;0.785,0.813,0.749,0.727,0.742,0.785,0.794,0.762,(4.7103)+(-0.1365)His+(0.0031)Pro+(-0.0068)Val+(-0.0006)Lys+(0.0833)Phe;0.785,0.811,0.713,0.708,0.661,0.810,0.767,0.737,(1.5071)+(0.0200)Ser+(-0.0669)Cit+(-0.0437)Tyr+(-0.0458)Val+(0.1486)Ile;0.785,0.809,0.727,0.687,0.739,0.802,0.757,0.746,(5.6430)+(-0.1362)His+(0.0159)Thr+(-0.0317)Cit+(-0.0088)Arg+(0.0456)Ile;0.785,0.816,0.805,0.806,0.815,0.792,0.786,0.800,(6.2114)+(0.0074)Pro+(0.0128)Tyr+(-0.1603)Met+(0.0118)Leu+(-0.1396)Trp;0.785,0.805,0.726,0.733,0.669,0.801,0.774,0.745,(3.7353)+(0.0140)Thr+(-0.0336)Arg+(-0.0425)Tyr+(-0.0550)Val+(0.1670)Ile;0.785,0.817,0.712,0.714,0.716,0.755,0.664,0.712,(-3.7246)+(0.0494)Ser+(0.0100)Pro+(-0.3933)Met+(-0.0109)Lys+(0.1127)Phe;0.785,0.817,0.809,0.820,0.820,0.806,0.760,0.801,(6.7995)+(-0.0539)Asn+(0.0001)Gly+(-0.0092)Arg+(0.0272)Orn+(-0.1333)Trp;0.785,0.821,0.778,0.768,0.786,0.780,0.789,0.781,(5.1257)+(-0.0146)Arg+(0.0114)Orn+(-0.0052)Lys+(0.0521)Ile+(-0.1597)Trp;0.785,0.818,0.805,0.819,0.804,0.788,0.782,0.798,(6.7733)+(-0.0637)Asn+(0.0066)Pro+(-0.0098)Tyr+(0.0060)Lys+(-0.1379)Trp

;0.785,0.818,0.806,0.814,0.810,0.787,0.790,0.800,(6.5476)+(-0.0645)As
n+(0.0052)Pro+(0.0042)Lys+(0.0043)Leu+(-0.1437)Trp;0.785,0.815,0.764,
0.733,0.765,0.807,0.813,0.779,(6.0722)+(-0.1143)His+(0.0019)Pro+(-0.1
604)Met+(0.0043)Lys+(0.0576)Ile;0.785,0.812,0.731,0.716,0.737,0.796,0
.711,0.740,(6.1413)+(-0.1304)His+(0.0129)Thr+(0.0046)Pro+(-0.0312)Tyr
+(0.0309)Orn;0.785,0.817,0.747,0.750,0.742,0.774,0.733,0.750,(-2.9831
)+(0.0560)Ser+(-0.0064)Gly+(-0.3450)Met+(-0.0099)Lys+(0.1098)Phe;0.78
5,0.817,0.752,0.721,0.760,0.798,0.783,0.765,(4.9508)+(-0.0272)Asn+(-0
.1359)His+(-0.0081)Arg+(0.0256)Orn+(0.0672)Phe;0.785,0.818,0.807,0.81
3,0.815,0.800,0.777,0.801,(6.4157)+(-0.0631)Asn+(0.0002)Gly+(0.0217)O
rn+(0.0051)Leu+(-0.1394)Trp;0.785,0.817,0.784,0.801,0.790,0.788,0.722
,0.775,(5.5542)+(0.0093)Thr+(-0.0176)Tyr+(0.0184)Orn+(-0.0039)Lys+(-0
.1450)Trp;0.785,0.814,0.821,0.834,0.810,0.820,0.809,0.818,(4.8304)+(-
0.0021)Gly+(0.0034)Gln+(-0.0051)Ala+(0.0195)Orn+(-0.1452)Trp;0.785,0.
812,0.802,0.806,0.736,0.868,0.879,0.822,(2.7250)+(-0.0946)Asn+(0.0041
)Gln+(-0.0099)Ala+(0.1633)Ile+(-0.0830)Leu;0.785,0.810,0.756,0.733,0.
754,0.784,0.799,0.767,(5.0727)+(-0.0314)Asn+(-0.1331)His+(0.0021)Pro+
(-0.0030)Leu+(0.0775)Phe;0.785,0.807,0.737,0.712,0.739,0.807,0.747,0.
751,(6.5870)+(-0.1356)His+(0.0219)Thr+(-0.0143)Arg+(-0.0232)Val+(0.04
77)Leu;0.785,0.816,0.792,0.79
2,0.748,0.854,0.838,0.808,(4.2055)+(-0.0076)Ala+(-0.0120)Arg+(-0.1704
)Met+(0.1816)Ile+(-0.0821)Leu;0.785,0.815,0.696,0.670,0.643,0.815,0.7
90,0.730,(0.4092)+(0.0264)Ser+(-0.0514)Val+(0.0137)Orn+(-0.0246)Lys+(
0.1575)Ile;0.785,0.815,0.814,0.818,0.831,0.812,0.769,0.808,(7.1378)+(
-0.0656)Cit+(0.0006)Arg+(0.0051)Tyr+(0.0025)Lys+(-0.1482)Trp;0.785,0.
821,0.837,0.859,0.832,0.832,0.795,0.829,(5.0154)+(-0.0012)Gly+(0.0069
)Gln+(-0.0081)Arg+(-0.1186)Met+(-0.1334)Trp;0.785,0.818,0.787,0.804,0
.801,0.796,0.709,0.777,(6.1587)+(0.0140)Thr+(-0.0203)Arg+(0.0057)Pro+

(-0.0034)Val+(-0.1490)Trp;0.785,0.816,0.735,0.743,0.752,0.770,0.651,0.729,(-2.6839)+(0.0483)Ser+(-0.0816)Cit+(-0.0173)Tyr+(-0.3414)Met+(0.1255)Phe;0.785,0.816,0.810,0.817,0.819,0.803,0.777,0.804,(6.6851)+(-0.0035)Arg+(0.0089)Pro+(0.0142)Tyr+(-0.1409)Met+(-0.1319)Trp;0.785,0.819,0.804,0.819,0.806,0.801,0.762,0.797,(4.5757)+(0.0026)Gln+(-0.0030)Val+(0.0182)Orn+(-0.0031)Lys+(-0.1466)Trp;0.785,0.817,0.811,0.832,0.799,0.824,0.775,0.807,(4.9319)+(0.0031)Gln+(0.0096)Thr+(-0.0045)Ala+(-0.0067)Tyr+(-0.1477)Trp;0.785,0.815,0.722,0.698,0.719,0.785,0.750,0.738,(-2.0401)+(0.0556)Ser+(-0.0064)Gly+(0.0040)Pro+(-0.3646)Met+(0.0604)Ile;0.785,0.815,0.814,0.832,0.803,0.820,0.787,0.810,(4.7201)+(0.0031)Gln+(-0.0048)Ala+(-0.0070)Tyr+(0.0202)Orn+(-0.1427)Trp;0.785,0.810,0.785,0.779,0.780,0.834,0.777,0.792,(4.1510)+(0.0112)Gln+(-0.1448)His+(-0.0247)Cit+(-0.0152)Arg+(0.0046)Pro;0.785,0.815,0.744,0.710,0.757,0.810,0.760,0.759,(4.5431)+(-0.1289)His+(-0.0629)Cit+(-0.0090)Val+(0.0458)Orn+(0.0799)Phe;0.785,0.817,0.738,0.710,0.738,0.796,0.772,0.754,(6.0912)+(-0.1277)His+(-0.0078)Arg+(-0.0326)Tyr+(0.0298)Orn+(0.0463)Ile;0.785,0.810,0.730,0.708,0.734,0.785,0.737,0.741,(4.0373)+(0.0056)Gly+(-0.1462)His+(-0.0120)Arg+(0.0020)Pro+(0.0817)Phe;0.785,0.819,0.810,0.832,0.812,0.813,0.747,0.801,(4.8290)+(0.0039)Gln+(-0.0204)Arg+(-0.0037)Val+(0.0235)Orn+(-0.1444)Trp;0.785,0.819,0.744,0.711,0.748,0.796,0.786,0.760,(4.4992)+(-0.1422)His+(0.0255)Orn+(-0.0048)Lys+(-0.0022)Leu+(0.0703)Phe;0.785,0.819,0.799,0.808,0.804,0.789,0.772,0.793,(4.2879)+(0.0028)Gln+(0.0139)Orn+(-0.0060)Lys+(0.0074)Leu+(-0.1557)Trp;0.785,0.809,0.727,0.703,0.735,0.790,0.725,0.739,(3.8777)+(0.0064)Gly+(-0.1430)His+(-0.0420)Cit+(0.0006)Leu+(0.0857)Phe;0.785,0.819,0.791,0.800,0.799,0.782,0.759,0.785,(4.1685)+(0.0019)Gln+(0.0034)Thr+(0.0098)Orn+(0.0046)Leu+(-0.1624)Trp;0.785,0.817,0.790,0.795,0.801,0.775,0.762,0.783,(5.1623)+(-0.0023)Gly+(0.0069)Thr+(0.0121)Orn+(0.0043)Leu+(-0.

1606)Trp;0.785,0.816,0.795,0.799,0.793,0.808,0.780,0.795,(5.2295)+(0.0088)Thr+(-0.0062)Ala+(0.0145)Orn+(0.0112)Leu+(-0.1546)Trp;0.785,0.816,0.793,0.803,0.813,0.792,0.726,0.784,(6.1162)+(-0.0024)Gly+(0.0136)Thr+(-0.0221)Arg+(0.0194)Orn+(-0.1547)Trp;0.785,0.812,0.816,0.834,0.815,0.802,0.783,0.808,(6.9751)+(-0.0652)Asn+(0.0006)Gly+(-0.0024)Val+(0.0077)Lys+(-0.1345)Trp;0.785,0.813,0.732,0.707,0.723,0.795,0.772,0.749,(5.5393)+(0.0036)Gly+(-0.1289)His+(-0.0234)Tyr+(-0.0011)Lys+(0.0544)Ile;0.785,0.810,0.790,0.794,0.778,0.832,0.773,0.794,(4.2397)+(0.0112)Gln+(-0.1471)His+(-0.0207)Arg+(-0.0101)Tyr+(0.0054)Lys;0.784,0.818,0.794,0.802,0.802,0.782,0.767,0.788,(5.4400)+(-0.0015)Gly+(0.0035)Pro+(0.0175)Orn+(-0.0029)Lys+(-0.1488)Trp;0.784,0.815,0.810,0.817,0.819,0.812,0.767,0.804,(6.1614)+(-0.0001)Gly+(0.0137)Tyr+(-0.1348)Met+(0.0248)Orn+(-0.1334)Trp;0.784,0.814,0.747,0.742,0.735,0.768,0.771,0.754,(5.0975)+(-0.1306)His+(-0.0075)Arg+(0.0052)Pro+(-0.0454)Tyr+(0.0983)Phe;0.784,0.816,0.765,0.732,0.765,0.810,0.817,0.781,(6.1258)+(-0.1119)His+(0.0032)Arg+(0.0017)Pro+(-0.1536)Met+(0.0600)Ile;0.784,0.813,0.785,0.788,0.749,0.836,0.814,0.797,(1.8120)+(-0.0360)Asn+(0.0053)Gln+(-0.2413)Met+(0.1636)Ile+(-0.0804)Leu;0.784,0.821,0.814,0.815,0.806,0.815,0.827,0.816,(7.1970)+(-0.0597)Asn+(-0.0011)Arg+(-0.0257)Val+(0.0527)Leu+(-0.1322)Trp;0.784,0.817,0.823,0.837,0.823,0.814,0.791,0.816,(4.4701)+(0.0064)Gln+(-0.0078)Arg+(-0.1458)Met+(0.0147)Leu+(-0.1421)Trp;0.784,0.811,0.823,0.840,0.823,0.825,0.781,0.817,(7.4025)+(-0.0302)Asn+(0.0009)Gly+(-0.0011)Ala+(-0.0536)Met+(-0.1235)Trp;0.784,0.814,0.806,0.818,0.814,0.803,0.762,0.799,(6.1047)+(-0.0004)Gly+(-0.1276)Met+(0.0239)Orn+(0.0051)Lys+(-0.1350)Trp;0.784,0.811,0.821,0.837,0.815,0.815,0.793,0.815,(6.9858)+(-0.0580)Asn+(0.0008)Gly+(-0.0026)Ala+(0.0075)Lys+(-0.1339)Trp;0.784,0.818,0.777,0.768,0.786,0.772,0.783,0.777,(4.9429)+(-0.0172)Arg+(-0.0009)Pro+(0.0098)Orn+(0.0502)Ile+(-0.1642)Trp;0.7

84,0.817,0.750,0.764,0.737,0.787,0.713,0.750,(-3.3900)+(0.0443)Ser+(-0.0037)Ala+(-0.3496)Met+(-0.0011)Leu+(0.1098)Phe;0.784,0.812,0.722,0.672,0.741,0.810,0.753,0.744,(5.0960)+(-0.1373)His+(0.0098)Thr+(-0.0586)Cit+(0.0330)Orn+(0.0381)Ile;0.784,0.812,0.746,0.715,0.749,0.814,0.773,0.763,(6.2978)+(-0.1240)His+(-0.0096)Arg+(-0.0247)Val+(0.0387)Orn+(0.0447)Leu;0.784,0.812,0.757,0.732,0.776,0.842,0.725,0.769,(6.4407)+(0.0040)Gly+(-0.1090)His+(-0.0050)Ala+(-0.0803)Cit+(0.0579)Orn;0.784,0.808,0.759,0.737,0.752,0.824,0.785,0.775,(6.2899)+(-0.1184)His+(-0.0055)Ala+(0.0082)Pro+(-0.0015)Val+(0.0328)Orn;0.784,0.817,0.777,0.771,0.783,0.862,0.716,0.783,(3.0678)+(0.0362)Ser+(-0.1326)Asn+(-0.0081)Ala+(-0.1143)Cit+(0.0541)Orn;0.784,0.816,0.809,0.817,0.819,0.808,0.769,0.803,(5.9361)+(0.0141)Tyr+(-0.1495)Met+(0.0218)Orn+(0.0051)Lys+(-0.1385)Trp;0.784,0.807,0.728,0.723,0.673,0.798,0.809,0.751,(1.6091)+(0.0073)Thr+(-0.0385)Arg+(-0.0614)Val+(0.1627)Ile+(0.0381)Phe;0.784,0.816,0.730,0.718,0.734,0.793,0.708,0.738,(-1.0759)+(0.0512)Ser+(-0.0560)Asn+(-0.0104)Arg+(-0.2862)Met+(0.0635)Ile;0.784,0.814,0.727,0.706,0.719,0.791,0.755,0.743,(-2.1200)+(0.0547)Ser+(-0.0062)Gly+(0.0004)Gln+(-0.3558)Met+(0.0648)Ile;0.784,0.812,0.737,0.723,0.744,0.803,0.716,0.746,(6.3120)+(0.0000)Gly+(-0.1314)His+(0.0136)Thr+(-0.0262)Tyr+(0.0329)Orn;0.784,0.811,0.756,0.727,0.749,0.824,0.798,0.775,(6.0798)+(-0.1267)His+(-0.0062)Ala+(0.0067)Pro+(0.0290)Orn+(0.0099)Leu;0.784,0.812,0.797,0.795,0.782,0.848,0.794,0.805,(4.4975)+(0.0008)Gly+(0.0098)Gln+(-0.1347)His+(-0.0026)Ala+(-0.0368)Cit;0.784,0.809,0.773,0.763,0.767,0.828,0.772,0.782,(4.0191)+(0.0011)Gly+(0.0094)Gln+(-0.1444)His+(-0.0370)Cit+(0.0042)Pro;0.784,0.809,0.765,0.744,0.759,0.829,0.789,0.780,(6.6528)+(-0.0237)Asn+(-0.1139)His+(-0.0056)Ala+(0.0081)Pro+(0.0331)Orn;0.784,0.811,0.731,0.694,0.746,0.803,0.745,0.747,(5.8881)+(-0.1443)His+(0.0141)Thr+(0.0250)Orn+(-0.0067)Lys+(0.0122)Leu;0.784,0.813,0.747,0.

707,0.752,0.790,0.811,0.765,(4.8691)+(-0.0250)Asn+(-0.1306)His+(-0.0358)Cit+(0.0337)Ile+(0.0567)Phe;0.784,0.817,0.792,0.810,0.790,0.786,0.756,0.785,(5.7807)+(0.0069)Pro+(-0.0142)Tyr+(-0.0026)Val+(0.0019)Lys+(-0.1414)Trp;0.784,0.814,0.767,0.767,0.772,0.832,0.711,0.771,(7.0593)+(0.0013)Gly+(-0.1152)His+(0.0271)Thr+(-0.0008)Ala+(-0.1404)Met;0.784,0.809,0.761,0.773,0.692,0.823,0.827,0.779,(2.8271)+(-0.0098)Ala+(-0.0419)Tyr+(0.0116)Orn+(0.1692)Ile+(-0.0845)Leu;0.784,0.816,0.766,0.736,0.763,0.810,0.819,0.782,(6.2324)+(-0.1122)His+(0.0035)Arg+(-0.0047)Tyr+(-0.1418)Met+(0.0623)Ile;0.784,0.813,0.811,0.821,0.808,0.812,0.787,0.807,(5.9428)+(-0.0012)Gly+(-0.0043)Ala+(-0.0014)Val+(0.0250)Orn+(-0.1373)Trp;0.784,0.820,0.795,0.804,0.801,0.791,0.763,0.790,(4.4362)+(0.0026)Gln+(0.0081)Thr+(-0.0071)Lys+(0.0098)Leu+(-0.1609)Trp;0.784,0.815,0.749,0.711,0.770,0.807,0.767,0.764,(5.0211)+(-0.0353)Asn+(-0.1265)His+(-0.0612)Cit+(0.0410)Orn+(0.0659)Phe;0.784,0.814,0.741,0.723,0.704,0.830,0.804,0.765,(1.0128)+(0.0444)Ser+(-0.1461)Asn+(-0.0053)Gly+(0.1405)Ile+(-0.0771)Leu;0.784,0.811,0.755,0.734,0.755,0.824,0.762,0.769,(6.2306)+(-0.1312)His+(0.0116)Thr+(-0.0038)Ala+(0.0002)Val+(0.0301)Orn;0.784,0.811,0.770,0.756,0.764,0.793,0.802,0.779,(5.5104)+(-0.0341)Asn+(-0.1232)His+(-0.0051)Arg+(-0.0075)Val+(0.0927)Phe;0.784,0.816,0.788,0.784,0.737,0.868,0.846,0.809,(3.8222)+(-0.0118)Ala+(-0.0820)Cit+(-0.0058)Arg+(0.1803)Ile+(-0.0840)Leu;0.784,0.819,0.810,0.824,0.812,0.797,0.779,0.803,(5.0036)+(-0.0032)Gly+(0.0031)Gln+(0.0098)Thr+(-0.0049)Lys+(-0.1554)Trp;0.784,0.814,0.807,0.818,0.814,0.812,0.760,0.801,(6.3908)+(-0.0006)Gly+(-0.0015)Val+(-0.1108)Met+(0.0281)Orn+(-0.1280)Trp;0.784,0.818,0.779,0.799,0.791,0.787,0.694,0.768,(6.2156)+(0.0152)Thr+(-0.0194)Arg+(0.0061)Pro+(-0.0171)Tyr+(-0.1481)Trp;0.784,0.816,0.809,0.817,0.800,0.812,0.804,0.808,(4.3846)+(0.0030)Gln+(-0.0060)Ala+(0.0155)Orn+(0.0106)Leu+(-0.1529)Trp;0.784,0.815,0.772,0.769,0.776,0

.832,0.727,0.776,(7.3649)+(-0.0127)Asn+(-0.1127)His+(0.0282)Thr+(-0.0009)Ala+(-0.1303)Met;0.784,0.814,0.763,0.755,0.775,0.820,0.717,0.767,(7.0402)+(-0.0051)Asn+(-0.1203)His+(0.0284)Thr+(0.0036)Val+(-0.1514)Met;0.784,0.814,0.740,0.719,0.760,0.817,0.694,0.748,(6.6335)+(-0.1196)His+(0.0141)Thr+(-0.0667)Cit+(-0.0299)Tyr+(0.0517)Orn;0.784,0.816,0.800,0.806,0.808,0.789,0.778,0.795,(6.4344)+(-0.0026)Arg+(0.0082)Pro+(-0.1378)Met+(0.0119)Leu+(-0.1364)Trp;0.784,0.815,0.800,0.819,0.797,0.801,0.752,0.792,(4.6911)+(0.0026)Gln+(-0.0154)Tyr+(-0.0029)Val+(0.0194)Orn+(-0.1435)Trp;0.784,0.810,0.706,0.686,0.647,0.822,0.799,0.739,(0.5670)+(0.0276)Ser+(-0.0045)Pro+(-0.0504)Val+(-0.0222)Lys+(0.1644)Ile;0.784,0.818,0.802,0.810,0.808,0.780,0.784,0.795,(4.5267)+(-0.0027)Gly+(0.0026)Gln+(0.0067)Thr+(0.0056)Leu+(-0.1645)Trp;0.784,0.810,0.792,0.792,0.785,0.844,0.770,0.798,(4.3100)+(0.0008)Gly+(0.0112)Gln+(-0.1421)His+(-0.0250)Cit+(-0.0142)Arg;0.784,0.819,0.778,0.770,0.781,0.779,0.794,0.781,(5.1156)+(0.0006)Gly+(-0.0128)Arg+(-0.0041)Lys+(0.0553)Ile+(-0.1605)Trp;0.784,0.813,0.738,0.689,0.757,0.819,0.771,0.759,(5.8862)+(-0.1195)His+(-0.0651)Cit+(0.0440)Orn+(-0.0093)Lys+(0.0434)Ile;0.784,0.818,0.788,0.793,0.799,0.779,0.761,0.783,(5.1261)+(0.0029)Pro+(0.0156)Orn+(-0.0043)Lys+(0.0057)Leu+(-0.1525)Trp;0.784,0.815,0.803,0.825,0.812,0.808,0.724,0.792,(5.0208)+(0.0037)Gln+(0.0128)Thr+(-0.0227)Arg+(-0.0019)Val+(-0.1533)Trp;0.784,0.807,0.725,0.689,0.732,0.804,0.749,0.743,(5.0516)+(0.0056)Gly+(-0.1289)His+(-0.0438)Cit+(-0.0015)Pro+(0.0538)Ile;0.784,0.820,0.784,0.789,0.796,0.780,0.750,0.779,(5.2337)+(0.0092)Thr+(0.0026)Pro+(-0.0057)Lys+(0.0087)Leu+(-0.1588)Trp;0.784,0.817,0.789,0.794,0.799,0.770,0.767,0.782,(5.2685)+(-0.0021)Gly+(0.0080)Thr+(0.0027)Pro+(0.0053)Leu+(-0.1620)Trp;0.784,0.815,0.763,0.733,0.762,0.806,0.810,0.778,(6.3189)+(-0.1101)His+(0.0021)Pro+(-0.0062)Tyr+(-0.1402)Met+(0.0596)Ile;0.784,0.814,0.731,0.703,0.748,0.782,0.736,0.74

2,(4.7934)+(-0.1498)His+(0.01
95)Thr+(-0.0279)Cit+(-0.0138)Arg+(0.0776)Phe;0.784,0.810,0.755,0.730,
0.753,0.785,0.800,0.767,(5.0767)+(-0.0296)Asn+(-0.1343)His+(0.0018)Pr
o+(-0.0006)Lys+(0.0746)Phe;0.784,0.815,0.757,0.750,0.770,0.822,0.702,
0.761,(6.7413)+(0.0019)Gly+(-0.1230)His+(0.0273)Thr+(0.0044)Val+(-0.1
571)Met;0.784,0.817,0.807,0.814,0.815,0.797,0.779,0.801,(6.4110)+(-0.
0658)Asn+(0.0210)Orn+(0.0019)Lys+(0.0042)Leu+(-0.1405)Trp;0.784,0.816
,0.729,0.715,0.728,0.795,0.722,0.740,(-1.1785)+(0.0503)Ser+(-0.0646)A
sn+(-0.0054)Tyr+(-0.2853)Met+(0.0630)Ile;0.784,0.815,0.810,0.817,0.82
3,0.811,0.761,0.803,(6.3913)+(-0.0082)Arg+(0.0144)Tyr+(-0.1256)Met+(0
.0273)Orn+(-0.1320)Trp;0.784,0.816,0.749,0.760,0.748,0.771,0.710,0.74
7,(-3.1104)+(0.0566)Ser+(-0.0059)Gly+(-0.0169)Arg+(-0.3572)Met+(0.108
0)Phe;0.783,0.812,0.738,0.696,0.745,0.805,0.786,0.758,(5.5886)+(-0.13
61)His+(-0.0085)Arg+(-0.0023)Pro+(0.0245)Orn+(0.0421)Ile;0.783,0.814,
0.754,0.729,0.783,0.831,0.702,0.761,(6.5116)+(0.0043)Gly+(-0.1080)His
+(-0.0715)Cit+(-0.0805)Met+(0.0546)Orn;0.783,0.813,0.810,0.823,0.806,
0.823,0.777,0.807,(6.3613)+(-0.0023)Gly+(0.0145)Thr+(-0.0043)Ala+(-0.
0017)Lys+(-0.1461)Trp;0.783,0.810,0.823,0.839,0.817,0.815,0.796,0.817
,(7.1232)+(-0.0571)Asn+(-0.0025)Ala+(-0.0007)Val+(0.0078)Lys+(-0.1333
)Trp;0.783,0.818,0.776,0.769,0.782,0.772,0.789,0.778,(4.9538)+(0.0006
)Gly+(-0.0153)Arg+(-0.0004)Pro+(0.0531)Ile+(-0.1642)Trp;0.783,0.819,0
.727,0.707,0.729,0.803,0.724,0.741,(-0.9310)+(0.0505)Ser+(-0.0528)Asn
+(-0.2730)Met+(-0.0093)Lys+(0.0685)Ile;0.783,0.816,0.764,0.763,0.772,
0.828,0.707,0.768,(7.1499)+(-0.0145)Asn+(0.0016)Gly+(-0.1143)His+(0.0
275)Thr+(-0.1356)Met;0.783,0.813,0.739,0.723,0.746,0.804,0.717,0.748,
(6.3685)+(-0.1306)His+(0.0140)Thr+(-0.0256)Tyr+(0.0333)Orn+(-0.0011)L
ys;0.783,0.810,0.756,0.741,0.746,0.821,0.772,0.770,(6.5062)+(-0.1150)
His+(-0.0050)Ala+(0.0090)Pro+(-0.0192)Tyr+(0.0352)Orn;0.783,0.818,0.7

74,0.772,0.774,0.774,0.783,0.776,(5.2736)+(0.0002)Gly+(-0.0128)Arg+(-0.0158)Tyr+(0.0551)Ile+(-0.1576)Trp;0.783,0.806,0.742,0.747,0.685,0.813,0.794,0.760,(3.7786)+(-0.0642)Cit+(-0.0418)Tyr+(-0.0353)Val+(0.1835)Ile+(-0.0403)Leu;0.783,0.818,0.718,0.731,0.728,0.752,0.638,0.712,(-4.0252)+(0.0433)Ser+(0.0132)Thr+(-0.4327)Met+(-0.0035)Orn+(0.1116)Phe;0.783,0.818,0.806,0.818,0.812,0.796,0.768,0.799,(6.6263)+(-0.0650)Asn+(-0.0084)Tyr+(0.0238)Orn+(0.0035)Lys+(-0.1348)Trp;0.783,0.816,0.807,0.810,0.794,0.816,0.823,0.811,(6.3291)+(-0.0040)Ala+(-0.0065)Arg+(-0.0223)Val+(0.0515)Leu+(-0.1417)Trp;0.783,0.809,0.717,0.722,0.644,0.768,0.818,0.738,(2.1842)+(-0.0027)Gln+(-0.0620)Tyr+(-0.0538)Val+(0.1522)Ile+(0.0614)Phe;0.783,0.807,0.776,0.772,0.765,0.825,0.770,0.783,(4.3006)+(0.0097)Gln+(-0.1372)His+(-0.0353)Cit+(0.0059)Pro+(-0.0170)Tyr;0.783,0.809,0.742,0.770,0.690,0.773,0.750,0.746,(1.5608)+(-0.0297)Arg+(-0.0731)Tyr+(0.1747)Ile+(-0.1062)Leu+(0.0928)Phe;0.783,0.807,0.767,0.782,0.692,0.834,0.835,0.786,(2.5559)+(0.0011)Gln+(-0.0099)Ala+(-0.0400)Tyr+(0.1719)Ile+(-0.0845)Leu;0.783,0.814,0.698,0.700,0.704,0.741,0.653,0.699,(-4.1130)+(0.0497)Ser+(-0.0009)Gln+(0.0097)Pro+(-0.4247)Met+(0.1074)Phe;0.783,0.821,0.725,0.703,0.742,0.803,0.692,0.735,(-0.9950)+(0.0474)Ser+(-0.0749)Cit+(0.0006)Tyr+(-0.3337)Met+(0.0706)Ile;0.783,0.819,0.831,0.853,0.828,0.829,0.784,0.823,(4.8056)+(0.0066)Gln+(-0.0083)Arg+(0.0018)Val+(-0.1241)Met+(-0.1356)Trp;0.783,0.807,0.735,0.733,0.680,0.794,0.812,0.755,(1.6517)+(-0.0344)Arg+(-0.0457)Val+(0.1921)Ile+(-0.0458)Leu+(0.0483)Phe;0.783,0.813,0.742,0.747,0.734,0.758,0.732,0.743,(-3.6266)+(0.0544)Ser+(-0.0062)Gly+(0.0002)Gln+(-0.3791)Met+(0.1034)Phe;0.783,0.808,0.750,0.715,0.747,0.803,0.808,0.768,(5.9672)+(-0.0112)Asn+(-0.1277)His+(-0.0014)Pro+(-0.0024)Lys+(0.0488)Ile;0.783,0.815,0.801,0.814,0.805,0.791,0.766,0.794,(5.6986)+(-0.0017)Gly+(-0.0036)Val+(0.0226)Orn+(-0.0011)Lys+(-0.1420)Trp;0.783,0.810,0.775,0.759

,0.763,0.816,0.810,0.787,(5.2737)+(-0.1242)His+(-0.0044)Ala+(-0.0347)Cit+(-0.0027)Val+(0.0917)Phe;0.783,0.815,0.826,0.833,0.836,0.809,0.799,0.819,(6.8375)+(-0.0353)Asn+(0.0192)Tyr+(-0.1197)Met+(0.0097)Lys+(-0.1394)Trp;0.783,0.814,0.805,0.820,0.800,0.823,0.761,0.801,(5.9689)+(0.0127)Thr+(-0.0046)Ala+(0.0012)Val+(-0.0019)Lys+(-0.1464)Trp;0.783,0.812,0.737,0.723,0.744,0.803,0.716,0.746,(6.3105)+(-0.1316)His+(0.0136)Thr+(-0.0264)Tyr+(0.0002)Val+(0.0328)Orn;0.783,0.815,0.800,0.812,0.803,0.785,0.774,0.793,(5.7504)+(-0.0011)Gly+(0.0058)Pro+(-0.0030)Val+(0.0010)Lys+(-0.1454)Trp;0.783,0.812,0.756,0.738,0.765,0.826,0.737,0.766,(6.7600)+(-0.1283)His+(0.0160)Thr+(-0.0036)Ala+(-0.0160)Arg+(0.0329)Orn;0.783,0.810,0.733,0.714,0.738,0.792,0.731,0.744,(4.0048)+(0.0060)Gly+(-0.1386)His+(-0.0399)Cit+(-0.0041)Val+(0.0938)Phe;0.783,0.814,0.785,0.797,0.789,0.771,0.756,0.778,(5.8211)+(-0.0028)Gly+(0.0128)Thr+(-0.0211)Tyr+(0.0090)Leu+(-0.1564)Trp;0.783,0.808,0.728,0.695,0.730,0.800,0.761,0.747,(5.2215)+(0.0046)Gly+(-0.1349)His+(-0.0081)Arg+(-0.0011)Pro+(0.0503)Ile;0.783,0.809,0.764,0.734,0.772,0.840,0.772,0.779,(6.7379)+(-0.1049)His+(-0.0077)Ala+(-0.0775)Cit+(0.0094)Pro+(0.0544)Orn;0.783,0.810,0.739,0.724,0.741,0.793,0.737,0.749,(6.9790)+(-0.0394)Asn+(-0.1322)His+(0.0227)Thr+(-0.0264)Tyr+(0.0166)Leu;0.783,0.815,0.765,0.733,0.764,0.810,0.817,0.781,(6.0835)+(-0.1152)His+(0.0017)Arg+(-0.1564)Met+(0.0038)Lys+(0.0602)Ile;0.783,0.810,0.747,0.719,0.746,0.784,0.794,0.761,(4.7406)+(-0.1408)His+(0.0018)Pro+(-0.0025)Lys+(-0.0008)Leu+(0.0746)Phe;0.783,0.812,0.694,0.698,0.619,0.771,0.782,0.717,(-0.8378)+(0.0184)Ser+(-0.0672)Tyr+(-0.0515)Val+(0.1421)Ile+(0.0594)Phe;0.783,0.819,0.803,0.812,0.807,0.783,0.786,0.797,(4.3790)+(-0.0022)Gly+(0.0027)Gln+(0.0123)Orn+(0.0040)Leu+(-0.1595)Trp;0.783,0.812,0.712,0.695,0.716,0.786,0.696,0.724,(-2.1984)+(0.0448)Ser+(0.0082)Thr+(-0.3849)Met+(-0.0074)Orn+(0.0693)Ile;0.783,0.810,0.733,0.702,0.734,0.803,0

.764,0.751,(5.4448)+(-0.0224)Asn+(0.0051)Gly+(-0.1298)His+(-0.0061)Arg+(0.0491)Ile;0.783,0.809,0.790,0.789,0.784,0.838,0.773,0.796,(4.2135)+(0.0113)Gln+(-0.1455)His+(-0.0223)Cit+(-0.0165)Arg+(0.0030)Lys;0.783,0.813,0.796,0.812,0.798,0.788,0.752,0.788,(6.2458)+(-0.0030)Gly+(0.0134)Thr+(-0.0160)Tyr+(-0.0012)Val+(-0.1476)Trp;0.783,0.811,0.730,0.695,0.744,0.782,0.756,0.744,(4.4819)+(-0.1500)His+(0.0158)Thr+(-0.0370)Cit+(-0.0007)Leu+(0.0757)Phe;0.783,0.808,0.766,0.753,0.757,0.827,0.774,0.778,(7.1623)+(-0.0409)Asn+(-0.1155)His+(0.0178)Thr+(-0.0052)Ala+(0.0083)Pro;0.783,0.816,0.767,0.759,0.774,0.828,0.729,0.772,(7.0451)+(-0.1204)His+(0.0281)Thr+(-0.0015)Ala+(0.0046)Val+(-0.1467)Met;0.783,0.810,0.760,0.738,0.757,0.789,0.800,0.771,(5.1356)+(-0.0305)Asn+(-0.1336)His+(0.0002)Lys+(-0.0020)Leu+(0.0785)Phe;0.783,0.810,0.769,0.749,0.767,0.830,0.781,0.782,(6.6415)+(-0.1075)His+(-0.0048)Ala+(0.0100)Pro+(-0.0873)Met+(0.0345)Orn;0.783,0.810,0.758,0.738,0.757,0.828,0.762,0.771,(6.1778)+(0.0022)Gly+(-0.1249)His+(-0.0035)Ala+(0.0007)Val+(0.0347)Orn;0.783,0.809,0.817,0.833,0.816,0.810,0.779,0.810,(6.5010)+(0.0003)Gly+(-0.0014)Ala+(-0.1065)Met+(0.0088)Lys+(-0.1345)Trp;0.783,0.809,0.746,0.724,0.735,0.791,0.796,0.762,(6.2670)+(-0.0091)Asn+(-0.1222)His+(0.0006)Pro+(-0.0265)Tyr+(0.0513)Ile;0.783,0.814,0.744,0.743,0.662,0.850,0.842,0.774,(-0.4866)+(0.0219)Ser+(-0.0127)Ala+(-0.0039)Orn+(0.1713)Ile+(-0.0848)Leu;0.783,0.819,0.775,0.772,0.774,0.775,0.785,0.777,(5.3182)+(-0.0129)Arg+(0.0008)Pro+(-0.0166)Tyr+(0.0542)Ile+(-0.1574)Trp;0.783,0.817,0.810,0.822,0.812,0.793,0.784,0.803,(4.6757)+(-0.0024)Gly+(0.0032)Gln+(0.0167)Orn+(-0.0043)Lys+(-0.1506)Trp;0.783,0.816,0.729,0.676,0.744,0.802,0.782,0.751,(4.2460)+(-0.1387)His+(-0.0585)Cit+(0.0331)Orn+(0.0277)Ile+(0.0464)Phe;0.783,0.816,0.777,0.791,0.782,0.776,0.730,0.770,(5.1532)+(0.0078)Thr+(-0.0211)Tyr+(0.0141)Orn+(0.0068)Leu+(-0.1538)Trp;0.783,0.813,0.805,0.818,0.816,0.813,0.747,0.798,(6

.5590)+(-0.0082)Arg+(-0.0017)Val+(-0.1007)Met+(0.0307)Orn+(-0.1262)Trp;0.783,0.813,0.803,0.816,0.814,0.803,0.748,0.795,(6.2922)+(-0.0112)Arg+(-0.1197)Met+(0.0260)Orn+(0.0072)Lys+(-0.1348)Trp;0.783,0.812,0.805,0.807,0.791,0.854,0.792,0.811,(4.5702)+(0.0113)Gln+(-0.1363)His+(-0.0021)Ala+(-0.0263)Cit+(-0.0127)Arg;0.783,0.818,0.803,0.812,0.806,0.787,0.784,0.797,(6.7468)+(-0.0537)Asn+(0.0059)Pro+(-0.0086)Tyr+(0.0072)Leu+(-0.1389)Trp;0.783,0.813,0.809,0.824,0.811,0.819,0.763,0.804,(6.3119)+(-0.0039)Ala+(-0.0137)Arg+(-0.0015)Val+(0.0301)Orn+(-0.1333)Trp;0.783,0.811,0.733,0.709,0.727,0.795,0.764,0.748,(5.6810)+(0.0040)Gly+(-0.1276)His+(-0.0063)Arg+(-0.0225)Tyr+(0.0542)Ile;0.783,0.811,0.689,0.711,0.630,0.746,0.713,0.700,(-2.0856)+(0.0202)Ser+(-0.0850)Tyr+(0.1592)Ile+(-0.0985)Leu+(0.0863)Phe;0.783,0.815,0.797,0.813,0.796,0.789,0.765,0.791,(6.1154)+(-0.0012)Gly+(0.0070)Pro+(-0.0134)Tyr+(-0.0021)Val+(-0.1393)Trp;0.783,0.815,0.793,0.801,0.787,0.808,0.773,0.793,(5.5359)+(0.0123)Thr+(-0.0055)Ala+(-0.0083)Tyr+(0.0144)Leu+(-0.1544)Trp;0.783,0.813,0.759,0.756,0.769,0.821,0.704,0.763,(6.6205)+(0.0016)Gly+(-0.1201)His+(0.0258)Thr+(-0.1673)Met+(0.0069)Lys;0.783,0.806,0.751,0.740,0.740,0.824,0.754,0.765,(6.3349)+(0.0016)Gly+(-0.1239)His+(0.0128)Thr+(-0.0053)Ala+(0.0083)Pro;0.783,0.816,0.807,0.819,0.818,0.804,0.756,0.799,(6.8823)+(-0.0522)Asn+(-0.0088)Arg+(-0.0054)Tyr+(0.0282)Orn+(-0.1311)Trp;0.783,0.814,0.766,0.767,0.734,0.827,0.786,0.778,(1.4853)+(0.0035)Gln+(0.0089)Thr+(-0.3004)Met+(0.1658)Ile+(-0.0800)Leu;0.783,0.817,0.782,0.802,0.794,0.794,0.694,0.771,(6.0187)+(0.0137)Thr+(-0.0213)Arg+(-0.0158)Tyr+(0.0216)Orn+(-0.1471)Trp;0.783,0.814,0.793,0.801,0.806,0.789,0.745,0.785,(5.8561)+(-0.0009)Gly+(-0.0169)Arg+(0.0044)Pro+(0.0217)Orn+(-0.1473)Trp;0.783,0.813,0.808,0.820,0.805,0.815,0.778,0.804,(5.7703)+(-0.0044)Ala+(-0.0012)Val+(0.0244)Orn+(-0.0002)Lys+(-0.1375)Trp;0.783,0.808,0.686,0.655,0.640,0.808,0.778,0.720,(1.6040)+(0

.0331)Ser+(-0.0044)Gln+(-0.0511)Val+(-0.0198)Lys+(0.1635)Ile;0.783,0.806,0.724,0.704,0.725,0.780,0.730,0.735,(6.2449)+(-0.1381)His+(0.0180)Thr+(0.0036)Pro+(-0.0306)Tyr+(0.0150)Leu;0.783,0.814,0.803,0.820,0.799,0.823,0.755,0.799,(6.0688)+(0.0131)Thr+(-0.0041)Ala+(-0.0044)Tyr+(-0.0012)Lys+(-0.1439)Trp;0.782,0.811,0.799,0.799,0.783,0.848,0.798,0.807,(4.5724)+(0.0100)Gln+(-0.1339)His+(-0.0025)Ala+(-0.0356)Cit+(-0.0029)Tyr;0.782,0.814,0.799,0.810,0.806,0.794,0.759,0.792,(6.0386)+(-0.0025)Gly+(0.0121)Thr+(-0.0016)Val+(-0.0026)Lys+(-0.1505)Trp;0.782,0.813,0.825,0.834,0.833,0.823,0.785,0.819,(7.0089)+(-0.0290)Asn+(0.0013)Gly+(0.0221)Tyr+(-0.1004)Met+

(-0.1308)Trp;0.782,0.815,0.745,0.702,0.769,0.811,0.759,0.760,(4.9135)+(-0.1286)His+(-0.0672)Cit+(0.0457)Orn+(-0.0088)Lys+(0.0713)Phe;0.782,0.813,0.801,0.806,0.798,0.808,0.792,0.801,(5.6984)+(-0.0018)Gly+(0.0127)Thr+(-0.0058)Ala+(0.0134)Leu+(-0.1570)Trp;0.782,0.812,0.805,0.817,0.817,0.808,0.749,0.798,(6.5334)+(-0.0003)Gly+(-0.0079)Arg+(-0.1035)Met+(0.0293)Orn+(-0.1286)Trp;0.782,0.810,0.795,0.797,0.785,0.843,0.776,0.801,(4.4592)+(0.0114)Gln+(-0.1392)His+(-0.0242)Cit+(-0.0138)Arg+(-0.0061)Tyr;0.782,0.815,0.805,0.821,0.808,0.793,0.764,0.797,(4.4837)+(0.0042)Gln+(-0.0185)Arg+(0.0044)Pro+(0.0057)Leu+(-0.1571)Trp;0.782,0.814,0.808,0.824,0.802,0.787,0.792,0.801,(4.6459)+(-0.0023)Gly+(0.0038)Gln+(-0.0162)Tyr+(0.0083)Leu+(-0.1539)Trp;0.782,0.814,0.726,0.706,0.717,0.789,0.752,0.741,(-1.8329)+(0.0547)Ser+(-0.0064)Gly+(-0.0073)Tyr+(-0.3398)Met+(0.0652)Ile;0.782,0.806,0.731,0.711,0.734,0.787,0.734,0.742,(6.4939)+(-0.1389)His+(0.0202)Thr+(-0.0259)Tyr+(-0.0034)Lys+(0.0182)Leu;0.782,0.816,0.808,0.820,0.819,0.800,0.762,0.800,(6.6971)+(-0.0592)Asn+(-0.0116)Arg+(0.0248)Orn+(0.0051)Lys+(-0.1381)Trp;0.782,0.816,0.808,0.820,0.812,0.798,0.776,0.801,(7.1006)+(-0.0490)Asn+(-0.0049)Arg+(0.0071)Pro+(-0.0053)Tyr+(-0.1327)Trp;0.782,0.807,0.731,0.741,0.

651,0.773,0.843,0.752,(1.9160)+(-0.0040)Gly+(-0.0670)Tyr+(-0.0535)Val+(0.1500)Ile+(0.0597)Phe;0.782,0.809,0.723,0.699,0.733,0.786,0.722,0.735,(3.8170)+(0.0063)Gly+(-0.1431)His+(-0.0424)Cit+(0.0018)Pro+(0.0843)Phe;0.782,0.816,0.709,0.719,0.711,0.741,0.654,0.706,(-4.1041)+(0.0473)Ser+(0.0106)Pro+(-0.4164)Met+(-0.0091)Leu+(0.1146)Phe;0.782,0.813,0.738,0.696,0.745,0.807,0.785,0.758,(5.6589)+(-0.1325)His+(-0.0069)Arg+(0.0253)Orn+(-0.0044)Lys+(0.0420)Ile;0.782,0.814,0.793,0.809,0.797,0.794,0.744,0.786,(5.6247)+(-0.0125)Tyr+(-0.0030)Val+(0.0235)Orn+(-0.0004)Lys+(-0.1384)Trp;0.782,0.815,0.806,0.823,0.801,0.792,0.778,0.799,(4.8381)+(-0.0029)Gly+(0.0033)Gln+(-0.0193)Tyr+(0.0180)Orn+(-0.1469)Trp;0.782,0.812,0.742,0.721,0.754,0.808,0.728,0.753,(6.3454)+(-0.0479)Asn+(0.0021)Gly+(-0.1290)His+(0.0139)Thr+(0.0284)Orn;0.782,0.816,0.811,0.831,0.811,0.804,0.761,0.802,(4.8009)+(0.0044)Gln+(-0.0179)Arg+(0.0060)Pro+(-0.0027)Val+(-0.1474)Trp;0.782,0.816,0.807,0.825,0.810,0.794,0.761,0.798,(4.5883)+(0.0042)Gln+(-0.0194)Arg+(0.0051)Pro+(0.0018)Lys+(-0.1538)Trp;0.782,0.812,0.808,0.823,0.803,0.815,0.771,0.803,(6.3900)+(-0.0025)Gly+(0.0146)Thr+(-0.0040)Ala+(-0.0074)Tyr+(-0.1452)Trp;0.782,0.819,0.784,0.789,0.796,0.785,0.744,0.779,(5.1158)+(0.0082)Thr+(0.0134)Orn+(-0.0069)Lys+(0.0081)Leu+(-0.1567)Trp;0.782,0.811,0.809,0.821,0.805,0.817,0.779,0.806,(6.1962)+(-0.0022)Gly+(0.0134)Thr+(-0.0045)Ala+(0.0006)Val+(-0.1481)Trp;0.782,0.812,0.708,0.690,0.714,0.784,0.689,0.719,(-2.0908)+(0.0452)Ser+(-0.0007)Gln+(0.0068)Thr+(-0.3789)Met+(0.0668)Ile;0.782,0.811,0.730,0.695,0.745,0.782,0.757,0.745,(4.4877)+(-0.1503)His+(0.0160)Thr+(-0.0370)Cit+(-0.0004)Pro+(0.0752)Phe;0.782,0.807,0.774,0.746,0.789,0.846,0.766,0.787,(7.3251)+(-0.0226)Asn+(-0.1005)His+(-0.0047)Ala+(-0.0748)Cit+(0.0584)Orn;0.782,0.812,0.748,0.725,0.760,0.810,0.742,0.759,(6.5965)+(-0.0432)Asn+(-0.1283)His+(0.0152)Thr+(0.0290)Orn+(-0.0014)Lys;0.782,0.806,0.746,0.729,0.739,0.808,0.7

62,0.759,(6.5210)+(-0.1366)His+(0.0194)Thr+(-0.0037)Ala+(-0.0205)Tyr+(0.0193)Leu;0.782,0.815,0.764,0.736,0.763,0.807,0.812,0.780,(6.2131)+(-0.1147)His+(-0.0064)Tyr+(-0.1458)Met+(0.0046)Lys+(0.0601)Ile;0.782,0.814,0.744,0.712,0.753,0.795,0.774,0.759,(4.7349)+(-0.1404)His+(-0.0094)Arg+(0.0265)Orn+(-0.0032)Lys+(0.0681)Phe;0.782,0.814,0.740,0.709,0.748,0.793,0.770,0.755,(4.6264)+(-0.1425)His+(-0.0110)Arg+(0.0006)Pro+(0.0248)Orn+(0.0653)Phe;0.782,0.815,0.805,0.828,0.802,0.799,0.755,0.796,(4.8058)+(0.0045)Gln+(-0.0169)Arg+(0.0063)Pro+(-0.0132)Tyr+(-0.1465)Trp;0.782,0.810,0.736,0.689,0.753,0.814,0.771,0.757,(5.5024)+(-0.1291)His+(-0.0598)Cit+(-0.0032)Pro+(0.0391)Orn+(0.0418)Ile;0.782,0.808,0.723,0.734,0.645,0.775,0.821,0.744,(1.1504)+(-0.0024)Pro+(-0.0632)Tyr+(-0.0531)Val+(0.1503)Ile+(0.0583)Phe;0.782,0.803,0.727,0.728,0.673,0.802,0.783,0.746,(3.6058)+(-0.0313)Arg+(-0.0396)Tyr+(-0.0554)Val+(0.0315)Orn+(0.1618)Ile;0.782,0.815,0.806,0.813,0.814,0.790,0.782,0.800,(6.7847)+(-0.0506)Asn+(-0.0058)Arg+(0.0056)Pro+(0.0068)Leu+(-0.1409)Trp;0.782,0.815,0.785,0.799,0.793,0.785,0.728,0.776,(5.9397)+(-0.0158)Arg+(0.0056)Pro+(-0.0154)Tyr+(0.0233)Orn+(-0.1408)Trp;0.782,0.814,0.810,0.828,0.820,0.798,0.752,0.800,(5.2328)+(-0.0032)Gly+(0.0041)Gln+(0.0141)Thr+(-0.0231)Arg+(-0.1585)Trp;0.782,0.808,0.751,0.724,0.744,0.793,0.807,0.767,(5.0279)+(-0.1319)His+(-0.0259)Cit+(-0.0183)Val+(0.0281)Leu+(0.0778)Phe;0.782,0.813,0.745,0.718,0.752,0.795,0.768,0.758,(4.6699)+(-0.1399)His+(-0.0116)Arg+(0.0267)Orn+(-0.0055)Leu+(0.0721)Phe;0.782,0.812,0.759,0.726,0.763,0.811,0.800,0.775,(6.0506)+(0.0342)Asn+(-0.1103)His+(-0.0303)Cit+(-0.1703)Met+(0.0658)Ile;0.782,0.809,0.738,0.696,0.741,0.791,0.805,0.758,(4.5577)+(-0.1371)His+(-0.0346)Cit+(-0.0024)Arg+(0.0346)Ile+(0.0541)Phe;0.782,0.815,0.798,0.801,0.796,0.792,0.795,0.796,(6.1152)+(0.0001)Gly+(-0.0094)Arg+(-0.0230)Val+(0.0476)Leu+(-0.1465)Trp;0.782,0.806,0.772,0.785,0.699,0.832,0.844,0.790,(3.4

318)+(-0.0019)Gly+(-0.0096)Ala+(-0.0398)Tyr+(0.1721)Ile+(-0.0843)Leu;0.782,0.815,0.794,0.809,0.795,0.779,0.764,0.787,(5.9210)+(-0.0013)Gly+(0.0064)Pro+(-0.0157)Tyr+(0.0013)Lys+(-0.1439)Trp;0.782,0.811,0.764,0.746,0.765,0.831,0.761,0.776,(6.5769)+(-0.0265)Asn+(0.0027)Gly+(-0.1174)His+(-0.0031)Ala+(0.0365)Orn;0.782,0.815,0.777,0.758,0.778,0.837,0.779,0.788,(3.2598)+(0.0259)Thr+(-0.0098)Ala+(-0.0901)Cit+(-0.2719)Met+(0.0745)Ile;0.782,0.814,0.790,0.802,0.790,0.773,0.771,0.784,(5.7529)+(-0.0011)Gly+(0.0055)Pro+(-0.0166)Tyr+(0.0072)Leu+(-0.1488)Trp;0.782,0.818,0.781,0.771,0.785,0.779,0.799,0.783,(5.2214)+(-0.0122)Arg+(-0.0005)Pro+(-0.0041)Lys+(0.0556)Ile+(-0.1603)Trp;0.782,0.809,0.735,0.710,0.748,0.807,0.726,0.748,(5.9199)+(0.0012)Gly+(-0.1367)His+(0.0111)Thr+(0.0289)Orn+(-0.0031)Lys;0.782,0.808,0.774,0.746,0.792,0.843,0.759,0.785,(7.2269)+(-0.0999)His+(-0.0039)Ala+(-0.0731)Cit+(-0.0530)Met+(0.0586)Orn;0.782,0.810,0.787,0.786,0.776,0.835,0.779,0.794,(4.4205)+(0.0100)Gln+(-0.1381)His+(-0.0341)Cit+(-0.0085)Tyr+(0.0001)Lys;0.782,0.817,0.747,0.759,0.733,0.792,0.714,0.750,(-3.4529)+(0.0438)Ser+(-0.0040)Ala+(-0.3513)Met+(0.0061)Orn+(0.1066)Phe;0.782,0.813,0.740,0.743,0.734,0.760,0.729,0.741,(-3.6015)+(0.0544)Ser+(-0.0063)Gly+(-0.3798)Met+(0.0049)Orn+(0.1015)Phe;0.782,0.815,0.740,0.754,0.748,0.778,0.661,0.735,(-3.1264)+(0.0486)Ser+(-0.0145)Arg+(-0.3427)Met+(-0.0066)Lys+(0.1145)Phe;0.782,0.812,0.766,0.750,0.771,0.834,0.751,0.777,(6.5012)+(0.0025)Gly+(-0.1151)His+(-0.0021)Ala+(-0.0664)Met+(0.0379)Orn;0.782,0.814,0.747,0.756,0.738,0.764,0.731,0.747,(-3.4181)+(0.0540)Ser+(-0.0061)Gly+(-0.3706)Met+(-0.0041)Leu+(0.1072)Phe;0.782,0.810,0.786,0.785,0.775,0.836,0.774,0.793,(4.3893)+(0.0005)Gly+(0.0098)Gln+(-0.1381)His+(-0.0347)Cit+(-0.0081)Tyr;0.782,0.805,0.756,0.742,0.745,0.822,0.768,0.769,(6.5005)+(-0.1238)His+(0.0136)Thr+(-0.0054)Ala+(0.0081)Pro+(0.0005)Lys;0.782,0.812,0.796,0.804,0.800,0.810,0.753,0.792,(6.0504)+(0.0

172)Thr+(-0.0054)Ala+(-0.0174)Arg+(0.0143)Leu+(-0.1557)Trp;0.782,0.815,0.807,0.814,0.819,0.801,0.766,0.800,(6.6401)+(-0.0537)Asn+(-0.0092)Arg+(0.0249)Orn+(0.0049)Leu+(-0.1381)Trp;0.782,0.810,0.757,0.738,0.756,0.828,0.761,0.771,(6.1166)+(0.0021)Gly+(-0.1255)His+(-0.0035)Ala+(0.0344)Orn+(0.0015)Lys;0.782,0.809,0.769,0.752,0.767,0.791,0.799,0.777,(5.5974)+(-0.0378)Asn+(-0.1191)His+(-0.0288)Cit+(-0.0068)Val+(0.0941)Phe;0.782,0.817,0.803,0.812,0.811,0.794,0.771,0.797,(6.5394)+(-0.0595)Asn+(-0.0090)Tyr+(0.0233)Orn+(0.0058)Leu+(-0.1365)Trp;0.781,0.807,0.715,0.726,0.637,0.769,0.809,0.735,(1.0623)+(0.0018)Thr+(-0.0665)Tyr+(-0.0530)Val+(0.1473)Ile+(0.0573)Phe;0.781,0.815,0.753,0.734,0.761,0.812,0.745,0.763,(6.7656)+(-0.0490)Asn+(-0.1226)His+(0.0151)Thr+(-0.0035)Val+(0.0314)Orn;0.781,0.813,0.818,0.827,0.827,0.806,0.782,0.811,(6.1362)+(0.0008)Gly+(0.0216)Tyr+(-0.1514)Met+(0.0082)Lys+(-0.1414)Trp;0.781,0.812,0.831,0.849,0.817,0.824,0.815,0.826,(4.9299)+(-0.0019)Gly+(0.0044)Gln+(-0.0041)Ala+(0.0000)Lys+(-0.1439)Trp;0.781,0.814,0.730,0.711,0.728,0.792,0.737,0.742,(-1.5579)+(0.0558)Ser+(-0.0058)Gly+(-0.0128)Arg+(-0.3337)Met+(0.0653)Ile;0.781,0.808,0.720,0.686,0.731,0.798,0.728,0.736,(5.3149)+(0.0020)Gly+(-0.1481)His+(0.0103)Thr+(0.0227)Orn+(0.0103)Leu;0.781,0.808,0.729,0.696,0.730,0.801,0.762,0.747,(5.2503)+(0.0046)Gly+(-0.1333)His+(-0.0073)Arg+(-0.0019)Lys+(0.0501)Ile;0.781,0.820,0.753,0.779,0.739,0.783,0.693,0.748,(-2.8093)+(0.0425)Ser+(-0.0128)Tyr+(-0.0125)Val+(-0.3357)Met+(0.1327)Phe;0.781,0.814,0.762,0.753,0.774,0.820,0.716,0.766,(6.9697)+(-0.1214)His+(0.0283)Thr+(-0.0001)Tyr+(0.0038)Val+(-0.1554)Met;0.781,0.813,0.771,0.767,0.777,0.832,0.725,0.775,(7.1666)+(-0.1153)His+(0.0277)Thr+(-0.0010)Ala+(0.0046)Tyr+(-0.1459)Met;0.781,0.808,0.736,0.707,0.749,0.805,0.734,0.749,(5.9605)+(-0.1362)His+(0.0113)Thr+(0.0022)Pro+(0.0278)Orn+(-0.0036)Lys;0.781,0.814,0.800,0.818,0.799,0.798,0.753,0.792,(4.6258)+(0.0030)Gln+(-0.015

5)Tyr+(0.0184)Orn+(-0.0031)Lys+(-0.1449)Trp;0.781,0.814,0.798,0.825,0.805,0.802,0.712,0.786,(5.0739)+(0.0039)Gln+(0.0138)Thr+(-0.0220)Arg+(-0.0127)Tyr+(-0.1515)Trp;0.781,0.811,0.739,0.738,0.704,0.803,0.771,0.754,(0.3967)+(0.0505)Ser+(-0.2271)Asn+(-0.0492)Val+(0.0601)Leu+(0.0921)Phe;0.781,0.810,0.738,0.727,0.683,0.805,0.833,0.762,(2.2222)+(-0.0272)Arg+(-0.0574)Val+(-0.0103)Lys+(0.1627)Ile+(0.0436)Phe;0.781,0.813,0.802,0.818,0.798,0.817,0.757,0.798,(5.9395)+(0.0124)Thr+(-0.0044)Ala+(-0.0053)Tyr+(0.0010)Val+(-0.1459)Trp;0.781,0.812,0.795,0.812,0.799,0.789,0.748,0.787,(6.3149)+(-0.0030)Gly+(0.0143)Thr+(-0.0160)Tyr+(-0.0022)Lys+(-0.1476)Trp;0.781,0.810,0.729,0.708,0.739,0.789,0.719,0.739,(4.0258)+(0.0066)Gly+(-0.1414)His+(-0.0379)Cit+(-0.0062)Arg+(0.0886)Phe;0.781,0.804,0.723,0.705,0.726,0.783,0.724,0.735,(6.1773)+(0.0011)Gly+(-0.1412)His+(0.0180)Thr+(-0.0259)Tyr+(0.0172)Leu;0.781,0.814,0.799,0.815,0.800,0.792,0.759,0.792,(5.9379)+(-0.0019)Gly+(-0.0136)Tyr+(-0.0031)Val+(0.0248)Orn+(-0.1375)Trp;0.781,0.811,0.787,0.784,0.728,0.860,0.867,0.809,(3.7479)+(-0.0770)Asn+(-0.0100)Ala+(0.0135)Orn+(0.1602)Ile+(-0.0826)Leu;0.781,0.809,0.769,0.742,0.772,0.832,0.792,0.784,(6.6137)+(-0.1205)His+(-0.0033)Ala+(-0.0840)Met+(0.0342)Orn+(0.0158)Leu;0.781,0.809,0.760,0.744,0.7
59,0.825,0.756,0.771,(6.4303)+(0.0017)Gly+(-0.1207)His+(-0.0028)Ala+(-0.0116)Tyr+(0.0378)Orn;0.781,0.806,0.755,0.749,0.741,0.821,0.750,0.765,(6.7535)+(-0.1183)His+(0.0160)Thr+(-0.0047)Ala+(0.0093)Pro+(-0.0195)Tyr;0.781,0.815,0.791,0.803,0.805,0.787,0.730,0.781,(6.2557)+(-0.0021)Gly+(0.0149)Thr+(-0.0202)Arg+(0.0045)Pro+(-0.1554)Trp;0.781,0.811,0.766,0.733,0.773,0.812,0.804,0.781,(6.4812)+(-0.1038)His+(-0.0302)Cit+(0.0018)Pro+(-0.1422)Met+(0.0598)Ile;0.781,0.811,0.808,0.820,0.804,0.812,0.783,0.805,(5.9825)+(-0.0012)Gly+(-0.0042)Ala+(-0.0056)Tyr+(0.0249)Orn+(-0.1371)Trp;0.781,0.809,0.747,0.725,0.736,0.792,0.796,0.762

,(6.2720)+(-0.0094)Asn+(-0.1226)His+(-0.0262)Tyr+(0.0004)Lys+(0.0517)Ile;0.781,0.802,0.757,0.737,0.742,0.822,0.790,0.773,(6.3997)+(0.0031)Gly+(-0.1221)His+(-0.0032)Ala+(-0.0177)Val+(0.0445)Leu;0.781,0.808,0.757,0.740,0.754,0.789,0.788,0.768,(5.0307)+(-0.1342)His+(-0.0102)Arg+(-0.0071)Val+(0.0027)Lys+(0.0878)Phe;0.781,0.814,0.806,0.819,0.802,0.813,0.772,0.802,(5.8224)+(-0.0042)Ala+(-0.0044)Tyr+(-0.0012)Val+(0.0250)Orn+(-0.1362)Trp;0.781,0.804,0.756,0.741,0.745,0.824,0.771,0.770,(6.4826)+(-0.1252)His+(0.0139)Thr+(-0.0055)Ala+(0.0078)Pro+(0.0013)Val;0.781,0.812,0.811,0.820,0.808,0.814,0.789,0.808,(5.9100)+(-0.0011)Gly+(-0.0045)Ala+(0.0242)Orn+(-0.0005)Lys+(-0.1386)Trp;0.781,0.814,0.790,0.809,0.795,0.793,0.729,0.781,(5.8425)+(0.0116)Thr+(-0.0129)Tyr+(-0.0007)Val+(-0.0019)Lys+(-0.1464)Trp;0.781,0.813,0.741,0.700,0.748,0.805,0.787,0.760,(5.7279)+(-0.0153)Asn+(-0.1318)His+(-0.0074)Arg+(0.0242)Orn+(0.0390)Ile;0.781,0.810,0.745,0.718,0.774,0.826,0.699,0.754,(6.4409)+(-0.0372)Asn+(0.0049)Gly+(-0.1111)His+(-0.0727)Cit+(0.0531)Orn;0.781,0.803,0.734,0.703,0.737,0.806,0.754,0.750,(6.2881)+(-0.1344)His+(0.0185)Thr+(-0.0276)Cit+(-0.0209)Val+(0.0451)Leu;0.781,0.809,0.740,0.715,0.752,0.810,0.735,0.753,(6.1139)+(-0.1342)His+(0.0117)Thr+(-0.0015)Val+(0.0301)Orn+(-0.0029)Lys;0.781,0.814,0.796,0.811,0.809,0.794,0.731,0.786,(4.6467)+(0.0035)Gln+(0.0118)Thr+(-0.0233)Arg+(0.0071)Leu+(-0.1632)Trp;0.781,0.814,0.767,0.763,0.773,0.825,0.724,0.771,(6.8703)+(-0.1181)His+(0.0266)Thr+(-0.0009)Ala+(-0.1597)Met+(0.0066)Lys;0.781,0.810,0.787,0.788,0.724,0.858,0.862,0.808,(3.6552)+(-0.0754)Asn+(0.0019)Gly+(-0.0098)Ala+(0.1646)Ile+(-0.0820)Leu;0.781,0.808,0.748,0.741,0.748,0.801,0.728,0.755,(7.2114)+(-0.0419)Asn+(-0.1170)His+(0.0202)Thr+(0.0061)Pro+(-0.0247)Tyr;0.781,0.815,0.792,0.809,0.792,0.784,0.757,0.785,(4.3924)+(0.0026)Gln+(-0.0187)Tyr+(0.0146)Orn+(0.0061)Leu+(-0.1529)Trp;0.781,0.808,0.758,0.735,0.751,0.825,0.786,0.774,(6.1959)+(-

0.1213)His+(-0.0058)Ala+(0.0079)Pro+(0.0313)Orn+(0.0010)Lys;0.781,0.804,0.731,0.729,0.676,0.807,0.797,0.752,(3.4010)+(0.0052)Thr+(-0.0646)Cit+(-0.0469)Tyr+(-0.0480)Val+(0.1534)Ile;0.781,0.809,0.761,0.740,0.760,0.788,0.795,0.771,(5.2726)+(-0.0254)Asn+(-0.1323)His+(-0.0052)Arg+(-0.0022)Leu+(0.0799)Phe;0.781,0.801,0.759,0.736,0.741,0.819,0.817,0.778,(6.6354)+(-0.1152)His+(-0.0053)Ala+(0.0088)Pro+(-0.0200)Val+(0.0436)Leu;0.781,0.816,0.723,0.678,0.746,0.801,0.741,0.741,(4.1954)+(-0.1471)His+(0.0115)Thr+(-0.0602)Cit+(0.0338)Orn+(0.0643)Phe;0.781,0.813,0.827,0.835,0.831,0.820,0.801,0.822,(6.3607)+(-0.0020)Ala+(0.0235)Tyr+(-0.1380)Met+(0.0084)Lys+(-0.1397)Trp;0.781,0.808,0.783,0.785,0.771,0.796,0.795,0.786,(1.2111)+(-0.0443)Val+(-0.3284)Met+(0.0288)Orn+(0.0583)Leu+(0.1005)Phe;0.781,0.808,0.714,0.723,0.638,0.774,0.802,0.734,(0.9808)+(-0.0666)Tyr+(-0.0533)Val+(0.0127)Orn+(0.1452)Ile+(0.0539)Phe;0.781,0.816,0.785,0.800,0.801,0.788,0.711,0.775,(5.9113)+(0.0132)Thr+(-0.0207)Arg+(0.0047)Pro+(0.0006)Lys+(-0.1549)Trp;0.781,0.811,0.734,0.744,0.736,0.773,0.678,0.732,(-3.4145)+(0.0465)Ser+(0.0003)Gln+(-0.3549)Met+(-0.0095)Lys+(0.1124)Phe;0.781,0.812,0.743,0.696,0.762,0.815,0.772,0.761,(5.7935)+(-0.0232)Asn+(-0.1220)His+(-0.0595)Cit+(0.0393)Orn+(0.0372)Ile;0.781,0.811,0.740,0.729,0.755,0.803,0.694,0.745,(6.9139)+(-0.1281)His+(0.0187)Thr+(-0.0172)Arg+(-0.0274)Tyr+(0.0361)Orn;0.781,0.817,0.787,0.801,0.805,0.796,0.708,0.778,(5.8055)+(0.0124)Thr+(-0.0217)Arg+(0.0195)Orn+(-0.0010)Lys+(-0.1524)Trp;0.781,0.815,0.772,0.767,0.785,0.839,0.711,0.776,(7.5594)+(-0.1067)His+(0.0291)Thr+(-0.0012)Ala+(-0.0333)Cit+(-0.1366)Met;0.781,0.814,0.819,0.830,0.806,0.818,0.819,0.818,(4.4936)+(0.0040)Gln+(-0.0054)Ala+(-0.0033)Lys+(0.0150)Leu+(-0.1517)Trp;0.781,0.816,0.779,0.790,0.787,0.781,0.732,0.773,(5.5727)+(0.0127)Thr+(-0.0173)Tyr+(-0.0053)Lys+(0.0118)Leu+(-0.1542)Trp;0.781,0.815,0.763,0.761,0.781,0.835,0.680,0.764,(7.2320)+(0.0024)Gly+(-0.1

090)His+(0.0282)Thr+(-0.0357)Cit+(-0.1460)Met;0.781,0.810,0.775,0.756,0.767,0.819,0.810,0.788,(5.3131)+(-0.1252)His+(-0.0048)Ala+(-0.0364)Cit+(-0.0007)Lys+(0.0880)Phe;0.781,0.811,0.799,0.805,0.809,0.793,0.765,0.793,(5.8657)+(-0.1385)Met+(0.0208)Orn+(0.0031)Lys+(0.0106)Leu+(-0.1393)Trp;0.781,0.810,0.757,0.732,0.754,0.822,0.783,0.773,(6.4974)+(-0.1266)His+(-0.0037)Ala+(-0.0169)Tyr+(0.0351)Orn+(0.0134)Leu;0.781,0.808,0.712,0.689,0.701,0.835,0.709,0.733,(0.5739)+(0.0308)Ser+(-0.0880)Cit+(-0.0204)Lys+(0.1566)Ile+(-0.0758)Leu;0.781,0.812,0.803,0.805,0.816,0.798,0.775,0.798,(5.8691)+(0.0132)Tyr+(-0.1515)Met+(0.0205)Orn+(0.0114)Leu+(-0.1399)Trp;0.781,0.811,0.804,0.808,0.801,0.805,0.799,0.803,(5.5508)+(-0.0007)Gly+(-0.0055)Ala+(0.0199)Orn+(0.0105)Leu+(-0.1471)Trp;0.781,0.812,0.766,0.734,0.773,0.811,0.806,0.781,(6.3880)+(-0.1076)His+(-0.0300)Cit+(-0.1479)Met+(0.0039)Lys+(0.0601)Ile;0.781,0.810,0.774,0.753,0.766,0.819,0.813,0.788,(5.2774)+(-0.1271)His+(-0.0052)Ala+(-0.0369)Cit+(0.0044)Leu+(0.0828)Phe;0.781,0.810,0.739,0.706,0.752,0.801,0.750,0.753,(6.2473)+(-0.0446)Asn+(-0.1374)His+(0.0156)Thr+(0.0242)Orn+(0.0092)Leu;0.781,0.814,0.770,0.764,0.787,0.833,0.706,0.773,(7.6226)+(-0.0128)Asn+(-0.1067)His+(0.0296)Thr+(-0.0323)Cit+(-0.1367)Met;0.781,0.809,0.704,0.683,0.645,0.819,0.801,0.737,(0.3739)+(0.0300)Ser+(-0.0063)Thr+(-0.0495)Val+(-0.0205)Lys+(0.1569)Ile;0.781,0.808,0.822,0.837,0.819,0.824,0.787,0.817,(7.2054)+(-0.0445)Asn+(0.0008)Gly+(-0.0024)Ala+(0.0014)Val+(-0.1290)Trp;0.781,0.806,0.723,0.688,0.731,0.803,0.743,0.741,(5.0536)+(0.0057)Gly+(-0.1285)His+(-0.0424)Cit+(-0.0021)Arg+(0.0519)Ile;0.781,0.812,0.750,0.730,0.762,0.818,0.729,0.760,(6.0868)+(0.0031)Gly+(-0.1159)His+(0.0069)Pro+(-0.1070)Met+(0.0324)Orn;0.781,0.807,0.735,0.712,0.746,0.806,0.726,0.747,(5.8167)+(0.0011)Gly+(-0.1364)His+(0.0099)Thr+(-0.0016)Val+(0.0289)Orn;0.781,0.810,0.735,0.709,0.690,0.812,0.843,0.763,(2.3063)+(-0.0679)Cit+(-0.0514)Val+(-0.01

86)Lys+(0.1572)Ile+(0.0473)Phe;0.781,0.810,0.707,0.689,0.710,0.784,0.692,0.719,(-2.3056)+(0.0449)Ser+(0.0057)Thr+(0.0031)Pro+(-0.3874)Met+(0.0629)Ile;0.781,0.809,0.827,0.839,0.825,0.830,0.797,0.823,(7.1522)+(-0.0482)Asn+(0.0009)Gly+(-0.0026)Ala+(0.0093)Tyr+(-0.1300)Trp;0.781,0.811,0.833,0.842,0.838,0.827,0.805,0.828,(7.2725)+(-0.0260)Asn+(-0.0017)Ala+(0.0232)Tyr+(-0.0886)Met+(-0.1296)Trp;0.781,0.809,0.774,0.777,0.736,0.829,0.804,0.786,(1.5171)+(-0.0001)Gly+(0.0042)Gln+(-0.2728)Met+(0.1682)Ile+(-0.0818)Leu;0.781,0.815,0.782,0.791,0.800,0.783,0.718,0.773,(5.7071)+(0.0133)Thr+(-0.0206)Arg+(0.0038)Pro+(0.0062)Leu+(-0.1600)Trp;0.781,0.808,0.765,0.736,0.764,0.828,0.797,0.781,(6.5612)+(-0.0182)Asn+(-0.1248)His+(-0.0043)Ala+(0.0330)Orn+(0.0119)Leu;0.781,0.800,0.750,0.730,0.736,0.820,0.779,0.766,(6.0299)+(0.0037)Gly+(-0.1259)His+(-0.0059)Ala+(0.0080)Pro+(0.0152)Leu;0.781,0.816,0.806,0.817,0.812,0.786,0.776,0.798,(6.8133)+(-0.0592)Asn+(-0.0095)Arg+(0.0063)Pro+(0.0073)Lys+(-0.1415)Trp;0.781,0.811,0.816,0.823,0.812,0.817,0.804,0.814,(6.7056)+(-0.0457)Asn+(0.0011)Gly+(-0.0037)Ala+(0.0146)Leu+(-0.1378)Trp;0.781,0.805,0.753,0.730,0.754,0.819,0.765,0.767,(6.6903)+(-0.1366)His+(0.0202)Thr+(-0.0044)Ala+(-0.0116)Arg+(0.0167)Leu;0.781,0.803,0.734,0.728,0.676,0.799,0.825,0.757,(1.8057)+(-0.0001)Gly+(-0.0332)Arg+(-0.0598)Val+(0.1605)Ile+(0.0381)Phe;0.781,0.816,0.791,0.795,0.803,0.783,0.764,0.786,(5.6633)+(-0.0022)Gly+(0.0122)Thr+(-0.0060)Lys+(0.0097)Leu+(-0.1594)Trp;0.780,0.806,0.761,0.774,0.688,0.826,0.831,0.780,(3.0394)+(-0.0108)Ala+(0.0056)Pro+(-0.0413)Tyr+(0.1647)Ile+(-0.0824)Leu;0.780,0.805,0.745,0.719,0.742,0.796,0.784,0.760,(6.3567)+(-0.1164)His+(-0.0331)Cit+(0.0007)Pro+(-0.0266)Tyr+(0.0532)Ile;0.780,0.809,0.744,0.720,0.733,0.792,0.795,0.760,(6.1185)+(-0.1244)His+(0.0005)Pro+(-0.0269)Tyr+(-0.0003)Lys+(0.0518)Ile;0.780,0.806,0.728,0.702,0.737,0.803,0.723,0.741,(5.5583)+(0.0016)Gly+(-0.1394)His+(0.0090)Thr+(0.0023)P

ro+(0.0260)Orn;0.780,0.812,0.759,0.751,0.771,0.816,0.717,0.764,(6.721
1)+(-0.1232)His+(0.0272)Thr+(0.0030)Val+(-0.1711)Met+(0.0056)Lys;0.78
0,0.809,0.817,0.826,0.812,0.810,0.812,0.815,(6.7524)+(-0.0511)Asn+(-0
.0037)Ala+(0.0045)Lys+(0.0120)Leu+(-0.1404)Trp;0.780,0.811,0.802,0.82
0,0.808,0.820,0.728,0.794,(6.4930)+(0.0174)Thr+(-0.0041)Ala+(-0.0169)
Arg+(0.0009)Val+(-0.1464)Trp;0.780,0.810,0.752,0.734,0.747,0.785,0.78
5,0.763,(5.0291)+(-0.1325)His+(-0.0098)Arg+(0.0038)Pro+(-0.0075)Val+(
0.0868)Phe;0.780,0.814,0.769,0.764,0.778,0.827,0.723,0.773,(7.2598)+(
-0.0113)Asn+(-0.1146)His+(0.0283)Thr+(0.0022)Tyr+(-0.1411)Met;0.780,0
.807,0.726,0.691,0.737,0.799,0.744,0.743,(5.5478)+(-0.1466)His+(0.011
2)Thr+(0.0006)Pro+(0.0229)Orn+(0.0090)Leu;0.780,0.814,0.736,0.722,0.6
95,0.832,0.787,0.759,(0.4836)+(0.0425)Ser+(-0.1274)Asn+(-0.0127)Thr+(
0.1498)Ile+(-0.0793)Leu;0.780,0.808,0.759,0.737,0.759,0.787,0.795,0.7
70,(5.2292)+(-0.0257)Asn+(-0.1340)His+(-0.0053)Arg+(0.0008)Lys+(0.076
5)Phe;0.780,0.807,0.769,0.749,0.768,0.828,0.784,0.782,(6.7356)+(-0.02
47)Asn+(-0.1184)His+(-0.0034)Ala+(0.0357)Orn+(0.0029)Lys;0.780,0.814,
0.817,0.837,0.809,0.800,0.790,0.809,(4.9069)+(-0.0025)Gly+(0.0041)Gln
+(-0.0123)Tyr+(-0.0006)Val+(-0.1460)Trp;0.780,0.805,0.727,0.700,0.735
,0.797,0.734,0.741,(5.9023)+(0.0021)Gly+(-0.1447)His+(0.0158)Thr+(-0.
0051)Lys+(0.0163)Leu;0.780,0.812,0.827,0.836,0.831,0.829,0.791,0.822,
(6.6385)+(0.0011)Gly+(-0.0019)Ala+(0.0257)Tyr+(-0.1159)Met+(-0.1320)T
rp;0.780,0.811,0.802,0.821,0.807,0.818,0.729,0.794,(6.4423)+(0.0168)T
hr+(-0.0040)Ala+(-0.0181)Arg+(0.0022)Lys+(-0.1468)Trp;0.780,0.808,0.7
55,0.731,0.757,0.783,0.795,0.767,(5.1778)+(-0.0254)Asn+(-0.1337)His+(
-0.0055)Arg+(0.0020)Pro+(0.0749)Phe;0.780,0.808,0.816,0.832,0.817,0.8
09,0.780,0.809,(6.5085)+(-0.0015)Ala+(0.0011)Val+(-0.1059)Met+(0.0084
)Lys+(-0.1355)Trp;0.780,0.811,0.810,0.822,0.813,0.816,0.768,0.805,(6.
3475)+(-0.0007)Gly+(-0.0041)A

la+(-0.0134)Arg+(0.0290)Orn+(-0.1354)Trp;0.780,0.813,0.766,0.750,0.76
2,0.843,0.762,0.779,(3.7277)+(-0.0908)Cit+(-0.2130)Met+(0.0349)Orn+(0
.1632)Ile+(-0.0822)Leu;0.780,0.811,0.808,0.823,0.813,0.820,0.747,0.80
1,(6.8578)+(-0.0021)Gly+(0.0190)Thr+(-0.0039)Ala+(-0.0167)Arg+(-0.146
4)Trp;0.780,0.809,0.818,0.833,0.822,0.813,0.774,0.810,(7.2105)+(-0.02
92)Asn+(0.0009)Gly+(0.0016)Val+(-0.0677)Met+(-0.1275)Trp;0.780,0.811,
0.760,0.731,0.759,0.826,0.795,0.778,(6.3040)+(-0.1289)His+(-0.0044)Al
a+(0.0323)Orn+(-0.0013)Lys+(0.0128)Leu;0.780,0.814,0.763,0.759,0.773,
0.828,0.707,0.767,(6.9103)+(0.0016)Gly+(-0.1175)His+(0.0269)Thr+(0.00
58)Tyr+(-0.1548)Met;0.780,0.811,0.819,0.834,0.824,0.803,0.781,0.810,(
7.1500)+(-0.0352)Asn+(-0.0056)Arg+(-0.0854)Met+(0.0113)Lys+(-0.1343)T
rp;0.780,0.813,0.739,0.757,0.746,0.769,0.655,0.732,(-3.6598)+(0.0472)
Ser+(0.0009)Gln+(-0.0183)Arg+(-0.3650)Met+(0.1111)Phe;0.780,0.807,0.8
23,0.840,0.820,0.825,0.786,0.818,(7.3443)+(-0.0434)Asn+(0.0008)Gly+(-
0.0021)Ala+(-0.0017)Arg+(-0.1265)Trp;0.780,0.812,0.818,0.835,0.814,0.
801,0.794,0.811,(4.7795)+(-0.0022)Gly+(0.0038)Gln+(-0.0011)Val+(-0.00
14)Lys+(-0.1493)Trp;0.780,0.810,0.774,0.756,0.766,0.818,0.809,0.787,(
5.3139)+(-0.1256)His+(-0.0049)Ala+(-0.0354)Cit+(-0.0013)Arg+(0.0877)P
he;0.780,0.814,0.797,0.802,0.795,0.792,0.791,0.795,(6.0717)+(-0.0107)
Arg+(-0.0230)Val+(0.0019)Lys+(0.0466)Leu+(-0.1477)Trp;0.780,0.807,0.7
62,0.737,0.767,0.789,0.796,0.772,(5.3942)+(-0.0295)Asn+(-0.1271)His+(
-0.0313)Cit+(-0.0016)Leu+(0.0820)Phe;0.780,0.818,0.777,0.773,0.775,0.
778,0.791,0.779,(5.4195)+(-0.0108)Arg+(-0.0147)Tyr+(-0.0031)Lys+(0.05
68)Ile+(-0.1551)Trp;0.780,0.807,0.747,0.725,0.736,0.794,0.793,0.762,(
6.3495)+(-0.0062)Asn+(-0.1218)His+(-0.0029)Arg+(-0.0256)Tyr+(0.0520)I
le;0.780,0.806,0.749,0.725,0.744,0.799,0.786,0.763,(6.4947)+(-0.0068)
Asn+(-0.1147)His+(-0.0327)Cit+(-0.0254)Tyr+(0.0536)Ile;0.780,0.816,0.
803,0.818,0.799,0.792,0.777,0.796,(4.4637)+(0.0036)Gln+(-0.0132)Tyr+(

-0.0035)Lys+(0.0104)Leu+(-0.1530)Trp;0.780,0.808,0.739,0.735,0.751,0.796,0.685,0.742,(0.0944)+(0.0494)Ser+(-0.1506)Asn+(-0.0809)Cit+(-0.0165)Lys+(0.0807)Phe;0.780,0.815,0.803,0.825,0.806,0.803,0.740,0.793,(4.7636)+(0.0040)Gln+(-0.0193)Arg+(-0.0121)Tyr+(0.0220)Orn+(-0.1454)Trp;0.780,0.809,0.820,0.836,0.824,0.817,0.776,0.813,(7.3333)+(-0.0306)Asn+(0.0009)Gly+(0.0002)Arg+(-0.0623)Met+(-0.1249)Trp;0.780,0.807,0.736,0.710,0.745,0.805,0.735,0.749,(5.8509)+(-0.1344)His+(0.0097)Thr+(0.0029)Pro+(-0.0030)Val+(0.0283)Orn;0.780,0.814,0.763,0.752,0.785,0.825,0.702,0.766,(7.2584)+(-0.1147)His+(0.0297)Thr+(-0.0346)Cit+(0.0047)Val+(-0.1581)Met;0.780,0.812,0.820,0.829,0.829,0.807,0.789,0.813,(6.2816)+(0.0212)Tyr+(-0.0006)Val+(-0.1486)Met+(0.0085)Lys+(-0.1408)Trp;0.780,0.812,0.750,0.722,0.764,0.819,0.743,0.762,(5.9898)+(0.0037)Gly+(-0.1266)His+(-0.1075)Met+(0.0306)Orn+(0.0160)Leu;0.780,0.807,0.740,0.701,0.755,0.820,0.757,0.758,(6.1687)+(-0.1187)His+(-0.0586)Cit+(-0.0226)Val+(0.0515)Orn+(0.0408)Leu;0.780,0.815,0.814,0.832,0.815,0.796,0.777,0.805,(4.8154)+(-0.0018)Gly+(0.0046)Gln+(-0.0179)Arg+(0.0051)Pro+(-0.1520)Trp;0.780,0.807,0.763,0.741,0.762,0.827,0.779,0.777,(6.4041)+(-0.1233)His+(-0.0035)Ala+(-0.0003)Val+(0.0354)Orn+(0.0014)Lys;0.780,0.814,0.791,0.801,0.805,0.788,0.738,0.783,(5.6604)+(-0.0179)Arg+(0.0044)Pro+(0.0207)Orn+(0.0012)Lys+(-0.1487)Trp;0.780,0.812,0.824,0.842,0.810,0.825,0.803,0.820,(4.6953)+(0.0040)Gln+(-0.0044)Ala+(0.0016)Val+(-0.0005)Lys+(-0.1454)Trp;0.780,0.811,0.818,0.834,0.817,0.801,0.788,0.810,(7.0515)+(-0.0640)Asn+(0.0006)Tyr+(-0.0025)Val+(0.0077)Lys+(-0.1348)Trp;0.780,0.811,0.814,0.830,0.815,0.797,0.782,0.806,(6.8264)+(-0.0629)Asn+(0.0006)Gly+(-0.0010)Tyr+(0.0065)Lys+(-0.1377)Trp;0.780,0.810,0.802,0.821,0.808,0.822,0.727,0.794,(6.5686)+(0.0177)Thr+(-0.0038)Ala+(-0.0168)Arg+(-0.0018)Tyr+(-0.1446)Trp;0.780,0.806,0.807,0.820,0.785,0.795,0.829,0.807,(-0.3197)+(0.0051)Gln+(-0.0413)Val+(-0.3630)Met+(

0.0577)Leu+(0.1085)Phe;0.780,0.806,0.739,0.710,0.751,0.809,0.742,0.75
3,(5.9206)+(-0.0299)Asn+(0.0035)Gly+(-0.1316)His+(0.0295)Orn+(0.0096)
Leu;0.780,0.811,0.742,0.718,0.767,0.820,0.696,0.750,(6.3884)+(0.0033)
Gly+(-0.1143)His+(-0.0709)Cit+(-0.0188)Tyr+(0.0556)Orn;0.780,0.814,0.
764,0.758,0.775,0.818,0.721,0.768,(6.9787)+(-0.0153)Asn+(-0.1172)His+
(0.0272)Thr+(-0.1565)Met+(0.0069)Lys;0.780,0.815,0.801,0.822,0.811,0.
804,0.724,0.790,(4.9024)+(0.0037)Gln+(0.0124)Thr+(-0.0227)Arg+(-0.000
3)Lys+(-0.1562)Trp;0.780,0.815,0.816,0.827,0.804,0.815,0.813,0.815,(4
.4536)+(0.0038)Gln+(-0.0053)Ala+(-0.0042)Tyr+(0.0136)Leu+(-0.1525)Trp
;0.780,0.813,0.805,0.818,0.801,0.813,0.774,0.801,(5.7948)+(-0.0044)Al
a+(-0.0045)Tyr+(0.0243)Orn+(-0.0003)Lys+(-0.1374)Trp;0.780,0.804,0.72
5,0.713,0.675,0.801,0.803,0.748,(1.6453)+(-0.0377)Arg+(-0.0612)Val+(0
.0223)Orn+(0.1593)Ile+(0.0328)Phe;0.780,0.809,0.763,0.746,0.761,0.826
,0.769,0.776,(6.6710)+(-0.1195)His+(-0.0028)Ala+(-0.0140)Tyr+(0.0007)
Val+(0.0385)Orn;0.780,0.814,0.798,0.802,0.796,0.792,0.795,0.796,(6.14
50)+(-0.0092)Arg+(-0.0012)Tyr+(-0.0229)Val+(0.0475)Leu+(-0.1460)Trp;0
.780,0.814,0.813,0.830,0.818,0.802,0.765,0.804,(4.8223)+(-0.0021)Gly+
(0.0042)Gln+(-0.0203)Arg+(0.0204)Orn+(-0.1511)Trp;0.780,0.811,0.740,0
.703,0.758,0.803,0.755,0.755,(4.5171)+(-0.1345)His+(-0.0625)Cit+(0.04
16)Orn+(-0.0061)Leu+(0.0707)Phe;0.780,0.802,0.734,0.725,0.735,0.792,0
.714,0.741,(6.4789)+(0.0007)Gly+(-0.1260)His+(0.0157)Thr+(0.0058)Pro+
(-0.0243)Tyr;0.780,0.815,0.783,0.793,0.803,0.785,0.713,0.774,(5.5892)
+(0.0120)Thr+(-0.0222)Arg+(0.0170)Orn+(0.0049)Leu+(-0.1579)Trp;0.780,
0.809,0.817,0.823,0.818,0.810,0.804,0.814,(6.8995)+(-0.0223)Asn+(-0.0
024)Ala+(-0.0796)Met+(0.0173)Leu+(-0.1342)Trp;0.779,0.806,0.748,0.726
,0.747,0.783,0.784,0.760,(4.9256)+(-0.1316)His+(-0.0300)Cit+(0.0033)P
ro+(-0.0064)Val+(0.0857)Phe;0.779,0.811,0.798,0.803,0.809,0.796,0.764
,0.793,(5.9656)+(0.0000)Gly+(-0.1318)Met+(0.0222)Orn+(0.0116)Leu+(-0.

1370)Trp;0.779,0.808,0.771,0.751,0.771,0.831,0.782,0.784,(6.8749)+(-0.0225)Asn+(-0.1149)His+(-0.0030)Ala+(-0.0010)Val+(0.0380)Orn;0.779,0.814,0.742,0.760,0.750,0.775,0.652,0.734,(-3.2700)+(0.0477)Ser+(-0.0178)Arg+(-0.3524)Met+(-0.0048)Leu+(0.1157)Phe;0.779,0.813,0.821,0.830,0.809,0.815,0.823,0.819,(4.5519)+(-0.0014)Gly+(0.0040)Gln+(-0.0054)Ala+(0.0130)Leu+(-0.1535)Trp;0.779,0.809,0.825,0.841,0.824,0.822,0.787,0.818,(7.4953)+(-0.0292)Asn+(-0.0011)Ala+(0.0007)Arg+(-0.0536)Met+(-0.1239)Trp;0.779,0.807,0.761,0.736,0.766,0.789,0.798,0.772,(5.4066)+(-0.0278)Asn+(-0.1274)His+(-0.0315)Cit+(-0.0009)Lys+(0.0806)Phe;0.779,0.816,0.805,0.825,0.810,0.805,0.745,0.796,(4.6111)+(0.0038)Gln+(-0.0205)Arg+(0.0199)Orn+(0.0001)Lys+(-0.1509)Trp;0.779,0.815,0.787,0.799,0.788,0.776,0.762,0.781,(5.5878)+(0.0053)Pro+(-0.0157)Tyr+(-0.0009)Lys+(0.0078)Leu+(-0.1489)Trp;0.779,0.813,0.829,0.847,0.816,0.823,0.816,0.825,(4.8566)+(-0.0019)Gly+(0.0043)Gln+(-0.0043)Ala+(0.0013)Val+(-0.1457)Trp;0.779,0.812,0.830,0.849,0.815,0.823,0.813,0.825,(4.9711)+(-0.0020)Gly+(0.0045)Gln+(-0.0039)Ala+(-0.0032)Tyr+(-0.1427)Trp;0.779,0.811,0.822,0.841,0.808,0.823,0.801,0.818,(4.7035)+(0.0040)Gln+(-0.0043)Ala+(-0.0023)Tyr+(0.0015)Val+(-0.1451)Trp;0.779,0.811,0.709,0.692,0.712,0.785,0.690,0.720,(-2.1457)+(0.0438)Ser+(0.0070)Thr+(-0.0053)Tyr+(-0.3732)Met+(0.0667)Ile;0.779,0.813,0.809,0.831,0.802,0.800,0.769,0.801,(4.6670)+(0.0036)Gln+(-0.0105)Tyr+(-0.0005)Val+(-0.0007)Lys+(-0.1464)Trp;0.779,0.805,0.748,0.714,0.746,0.801,0.804,0.766,(5.9882)+(-0.0111)Asn+(-0.1283)His+(-0.0039)Arg+(-0.0012)Pro+(0.0471)Ile;0.779,0.817,0.711,0.730,0.717,0.746,0.624,0.704,(-3.7132)+(0.0412)Ser+(0.0147)Thr+(-0.0233)Tyr+(-0.4047)Met+(0.1175)Phe;0.779,0.805,0.744,0.718,0.752,0.800,0.757,0.757,(6.6924)+(-0.0383)Asn+(-0.1360)His+(0.0200)Thr+(-0.0030)Lys+(0.0143)Leu;0.779,0.810,0.803,0.810,0.805,0.812,0.775,0.800,(5.9720)+(-0.0050)Ala+(-0.0133)Arg+(0.0251)Orn+(0.0102)Leu+(-0.1432)T

rp;0.779,0.813,0.729,0.732,0.661,0.783,0.827,0.751,(1.9577)+(-0.0556)Tyr+(-0.0509)Val+(-0.0133)Lys+(0.1524)Ile+(0.0631)Phe;0.779,0.803,0.734,0.724,0.684,0.801,0.819,0.757,(1.8750)+(-0.0447)Cit+(-0.0250)Arg+(-0.0573)Val+(0.1577)Ile+(0.0419)Phe;0.779,0.811,0.743,0.718,0.756,0.802,0.743,0.754,(6.4119)+(-0.0453)Asn+(-0.1292)His+(0.0142)Thr+(0.0023)Pro+(0.0269)Orn;0.779,0.808,0.703,0.692,0.643,0.812,0.780,0.732,(1.1911)+(0.0254)Ser+(-0.0308)Tyr+(-0.0473)Val+(-0.0179)Lys+(0.1563)Ile;0.779,0.808,0.822,0.837,0.823,0.818,0.784,0.816,(7.3547)+(-0.0267)Asn+(-0.0015)Ala+(0.0024)Val+(-0.0581)Met+(-0.1271)Trp;0.779,0.809,0.771,0.773,0.736,0.827,0.801,0.784,(1.5147)+(0.0040)Gln+(-0.2733)Met+(0.0030)Orn+(0.1675)Ile+(-0.0820)Leu;0.779,0.795,0.736,0.711,0.733,0.800,0.765,0.752,(5.9761)+(0.0029)Gly+(-0.1269)His+(0.0045)Pro+(-0.0201)Val+(0.0420)Leu;0.779,0.813,0.821,0.836,0.811,0.820,0.804,0.818,(4.6146)+(0.0049)Gln+(-0.0049)Ala+(-0.0140)Arg+(0.0136)Leu+(-0.1511)Trp;0.779,0.812,0.806,0.811,0.807,0.813,0.785,0.804,(6.0785)+(-0.0032)Ala+(-0.1119)Met+(0.0238)Orn+(0.0138)Leu+(-0.1351)Trp;0.779,0.808,0.733,0.709,0.742,0.802,0.730,0.746,(5.9743)+(0.0022)Gly+(-0.1334)His+(-0.0217)Tyr+(0.0328)Orn+(0.0117)Leu;0.779,0.800,0.722,0.694,0.730,0.789,0.733,0.736,(5.5555)+(0.0023)Gly+(-0.1463)His+(0.0129)Thr+(0.0016)Pro+(0.0130)Leu;0.779,0.803,0.734,0.710,0.742,0.798,0.733,0.746,(6.2614)+(-0.0465)Asn+(0.0030)Gly+(-0.1377)His+(0.0177)Thr+(0.0143)Leu;0.779,0.812,0.824,0.844,0.810,0.828,0.800,0.820,(4.7734)+(0.0040)Gln+(-0.0041)Ala+(-0.0017)Tyr+(0.0002)Lys+(-0.1433)Trp;0.779,0.809,0.812,0.827,0.816,0.801,0.768,0.803,(6.4165)+(0.0002)Gly+(0.0003)Val+(-0.1170)Met+(0.0085)Lys+(-0.1364)Trp;0.779,0.814,0.733,0.747,0.744,0.772,0.648,0.728,(-3.4704)+(0.0477)Ser+(-0.0190)Arg+(-0.3635)Met+(0.0078)Orn+(0.1089)Phe;0.779,0.812,0.768,0.763,0.738,0.816,0.812,0.782,(2.4630)+(-0.0987)Asn+(-0.0794)Cit+(0.1525)Ile+(-0.0941)Leu+(0.0681)Phe;0.779,0.802,0.73

5,0.725,0.737,0.790,0.719,0.743,(6.5352)+(-0.1272)His+(0.0163)Thr+(0.0055)Pro+(-0.0260)Tyr+(0.0011)Val;0.779,0.810,0.810,0.818,0.818,0.791,0.788,0.804,(6.6768)+(-0.0312)Asn+(-0.1067)Met+(0.0073)Lys+(0.0121)Leu+(-0.1399)Trp;0.779,0.807,0.743,0.720,0.734,0.791,0.789,0.759,(6.2535)+(-0.1230)His+(-0.0037)Arg+(0.0007)Pro+(-0.0266)Tyr+(0.0514)Ile;0.779,0.804,0.767,0.737,0.782,0.841,0.760,0.780,(6.9172)+(-0.1075)His+(-0.0051)Ala+(-0.0747)Cit+(0.0007)Val+(0.0570)Orn;0.779,0.808,0.760,0.743,0.766,0.828,0.747,0.771,(6.5210)+(0.0026)Gly+(-0.1205)His+(-0.0032)Ala+(-0.0101)Arg+(0.0383)Orn;0.779,0.807,0.721,0.748,0.658,0.753,0.759,0.729,(0.1937)+(-0.0033)Pro+(-0.0793)Tyr+(0.1666)Ile+(-0.1012)Leu+(0.0842)Phe;0.779,0.804,0.730,0.720,0.681,0.813,0.800,0.754,(3.3402)+(0.0114)Thr+(-0.0301)Arg+(-0.0567)Val+(-0.0109)Lys+(0.1685)Ile;0.779,0.801,0.757,0.748,0.751,0.822,0.749,0.767,(6.5758)+(0.0012)Gly+(-0.1273)His+(0.0151)Thr+(-0.0030)Ala+(0.0009)Lys;0.779,0.805,0.769,0.784,0.697,0.832,0.838,0.788,(3.1233)+(-0.0025)Thr+(-0.0096)Ala+(-0.0368)Tyr+(0.1731)Ile+(-0.0845)Leu;0.779,0.810,0.748,0.734,0.782,0.847,0.644,0.752,(2.7632)+(0.0391)Ser+(-0.1282)Asn+(-0.1093)Cit+(0.0536)Orn+(-0.0158)Lys;0.779,0.807,0.706,0.705,0.680,0.805,0.693,0.721,(-2.3474)+(0.0335)Ser+(-0.0501)Arg+(0.1747)Ile+(-0.1102)Leu+(0.0565)Phe;0.779,0.806,0.746,0.712,0.744,0.803,0.802,0.765,(5.9090)+(-0.1293)His+(-0.0038)Arg+(-0.0013)Pro+(-0.0023)Lys+(0.0489)Ile;0.779,0.809,0.759,0.731,0.775,0.841,0.738,0.771,(6.6475)+(-0.1150)His+(0.0115)Thr+(-0.0053)Ala+(-0.0743)Cit+(0.0519)Orn;0.779,0.812,0.789,0.797,0.803,0.783,0.738,0.781,(5.6161)+(-0.0171)Arg+(0.0040)Pro+(0.0201)Orn+(0.0032)Leu+(-0.1503)Trp;0.779,0.809,0.769,0.753,0.767,0.828,0.772,0.780,(6.9952)+(-0.0196)Asn+(-0.1136)His+(-0.0026)Ala+(-0.0127)Tyr+(0.0398)Orn;0.779,0.808,0.706,0.686,0.708,0.782,0.698,0.719,(-2.1393)+(0.0473)Ser+(-0.0006)Gln+(0.0036)Pro+(-0.3665)Met+

(0.0629)Ile;0.779,0.806,0.742,0.720,0.759,0.811,0.712,0.751,(6.5568)+(-0.1310)His+(0.0152)Thr+(-0.0169)Arg+(-0.0028)Val+(0.0326)Orn;0.779,0.808,0.771,0.777,0.730,0.824,0.799,0.783,(1.7135)+(0.0041)Gln+(-0.0117)Tyr+(-0.2520)Met+(0.1680)Ile+(-0.0811)Leu;0.779,0.807,0.763,0.728,0.778,0.839,0.774,0.779,(6.6691)+(-0.1139)His+(-0.0061)Ala+(-0.0734)Cit+(0.0534)Orn+(0.0121)Leu;0.779,0.810,0.734,0.724,0.694,0.830,0.771,0.755,(0.8428)+(0.0376)Ser+(-0.1482)Asn+(-0.0037)Pro+(0.1482)Ile+(-0.0776)Leu;0.779,0.806,0.761,0.735,0.766,0.789,0.796,0.772,(5.3718)+(-0.0294)Asn+(-0.1279)His+(-0.0316)Cit+(0.0003)Arg+(0.0798)Phe;0.779,0.815,0.795,0.801,0.801,0.775,0.779,0.789,(5.4856)+(-0.0008)Gly+(0.0041)Pro+(-0.0020)Lys+(0.0072)Leu+(-0.1537)Trp;0.779,0.803,0.733,0.726,0.676,0.798,0.825,0.756,(1.9401)+(-0.0005)Gln+(-0.0325)Arg+(-0.0599)Val+(0.1609)Ile+(0.0387)Phe;0.779,0.807,0.767,0.743,0.781,0.836,0.752,0.778,(7.1449)+(-0.1035)His+(-0.0042)Ala+(-0.0741)Cit+(-0.0133)Tyr+(0.0598)Orn;0.779,0.805,0.727,0.693,0.738,0.801,0.736,0.742,(5.3757)+(0.0029)Gly+(-0.1396)His+(0.0020)Pro+(0.0266)Orn+(0.0085)Leu;0.779,0.811,0.732,0.741,0.735,0.772,0.675,0.731,(-3.3466)+(0.0470)Ser+(-0.3545)Met+(-0.0095)Lys+(0.0007)Leu+(0.1121)Phe;0.779,0.802,0.765,0.760,0.760,0.825,0.744,0.772,(7.1978)+(-0.0423)Asn+(0.0018)Gly+(-0.1184)His+(0.0191)Thr+(-0.0026)Ala;0.779,0.810,0.818,0.819,0.829,0.805,0.801,0.813,(6.6450)+(-0.0222)Asn+(0.0183)Tyr+(-0.1250)Met+(0.0145)Leu+(-0.1396)Trp;0.779,0.805,0.768,0.739,0.784,0.843,0.758,0.781,(7.0122)+(-0.1053)His+(-0.0048)Ala+(-0.0752)Cit+(0.0583)Orn+(-0.0013)Lys;0.779,0.799,0.744,0.722,0.738,0.806,0.771,0.759,(6.1711)+(0.0030)Gly+(-0.1273)His+(-0.0190)Val+(0.0004)Lys+(0.0429)Leu;0.779,0.811,0.824,0.839,0.820,0.816,0.801,0.819,(7.0294)+(-0.0573)Asn+(-0.0028)Ala+(0.0049)Tyr+(0.0071)Lys+(-0.1355)Trp;0.779,0.810,0.809,0.818,0.812,0.792,0.787,0.802,(6.5249)+(-0.0617)Asn+(0.0008)Gly+(0.0042)Lys+(0.0078)Leu+(-0.1432)Trp;0.

779,0.805,0.738,0.732,0.680,0.801,0.830,0.760,(1.7840)+(-0.0323)Arg+(-0.0029)Pro+(-0.0597)Val+(0.1634)Ile+(0.0399)Phe;0.779,0.816,0.812,0.822,0.814,0.789,0.799,0.806,(4.5133)+(-0.0019)Gly+(0.0037)Gln+(-0.0044)Lys+(0.0089)Leu+(-0.1569)Trp;0.779,0.814,0.803,0.819,0.809,0.797,0.749,0.794,(4.4800)+(0.0038)Gln+(-0.0205)Arg+(0.0180)Orn+(0.0046)Leu+(-0.1552)Trp;0.779,0.805,0.733,0.704,0.740,0.794,0.752,0.748,(6.1449)+(-0.1428)His+(0.0166)Thr+(0.0012)Pro+(-0.0051)Lys+(0.0146)Leu;0.778,0.811,0.710,0.699,0.725,0.789,0.653,0.717,(-1.6369)+(0.0445)Ser+(0.0115)Thr+(-0.0182)Arg+(-0.3671)Met+(0.0669)Ile;0.778,0.806,0.747,0.713,0.746,0.800,0.802,0.765,(5.9844)+(-0.0097)Asn+(-0.1271)His+(-0.0034)Arg+(-0.0017)Lys+(0.0466)Ile;0.778,0.812,0.797,0.811,0.799,0.787,0.760,0.789,(5.8460)+(-0.0018)Gly+(-0.0147)Tyr+(0.0228)Orn+(-0.0012)Lys+(-0.1410)Trp;0.778,0.809,0.759,0.738,0.768,0.818,0.755,0.769,(6.4900)+(-0.1104)His+(0.0070)Pro+(-0.0025)Val+(-0.0994)Met+(0.0354)Orn;0.778,0.808,0.748,0.724,0.749,0.781,0.784,0.759,(4.9121)+(-0.1386)His+(-0.0086)Arg+(0.0023)Pro+(-0.0030)Leu+(0.0768)Phe;0.778,0.799,0.754,0.736,0.747,0.812,0.778,0.768,(6.8692)+(-0.0400)Asn+(0.0038)Gly+(-0.1141)His+(-0.0223)Val+(0.0484)Leu;0.778,0.816,0.741,0.741,0.730,0.844,0.690,0.751,(0.9375)+(0.0327)Ser+(0.0208)Thr+(-0.0453)Val+(-0.3642)Met+(0.0831)Leu;0.778,0.814,0.828,0.850,0.818,0.829,0.793,0.822,(4.8724)+(0.0051)Gln+(-0.0039)Ala+(-0.0137)Arg+(0.0017)Val+(-0.1433)Trp;0.778,0.802,0.741,0.742,0.686,0.811,0.805,0.761,(4.1185)+(-0.0466)Cit+(-0.0148)Arg+(-0.0362)Tyr+(-0.0499)Val+(0.1596)Ile;0.778,0.809,0.808,0.810,0.822,0.801,0.779,0.803,(5.9815)+(0.0013)Gly+(0.0202)Tyr+(-0.1527)Met+(0.0155)Leu+(-0.1421)Trp;0.778,0.809,0.799,0.805,0.811,0.798,0.756,0.793,(6.1843)+(-0.0067)Arg+(-0.1216)Met+(0.0246)Orn+(0.0110)Leu+(-0.1356)Trp;0.778,0.811,0.821,0.821,0.827,0.816,0.813,0.819,(6.2938)+(-0.0031)Ala+(0.0229)Tyr+(-0.1319)Met+(0.0176)Leu+(-0.1409)Trp;0.778,0.811,0.7

66,0.736,0.771,0.812,0.804,0.781,(6.5910)+(-0.1040)His+(-0.0302)Cit+(-0.0043)Tyr+(-0.1303)Met+(0.0620)Ile;0.778,0.809,0.759,0.741,0.770,0.827,0.736,0.769,(6.4328)+(-0.0080)Asn+(0.0027)Gly+(-0.1164)His+(-0.0731)Met+(0.0366)Orn;0.778,0.810,0.807,0.815,0.814,0.797,0.778,0.801,(6.6650)+(-0.0258)Asn+(0.0013)Gly+(-0.0965)Met+(0.0156)Leu+(-0.1352)Trp;0.778,0.811,0.807,0.821,0.809,0.816,0.761,0.802,(6.1279)+(-0.0043)Ala+(-0.0155)Arg+(0.0274)Orn+(0.0031)Lys+(-0.1386)Trp;0.778,0.810,0.827,0.835,0.836,0.818,0.794,0.821,(7.1368)+(-0.0263)Asn+(0.0204)Tyr+(0.0009)Val+(-0.0994)Met+(-0.1320)Trp;0.778,0.806,0.735,0.718,0.740,0.801,0.724,0.746,(6.0673)+(0.0017)Gly+(-0.1243)His+(0.0053)Pro+(-0.0235)Tyr+(0.0342)Orn;0.778,0.804,0.759,0.749,0.753,0.829,0.746,0.769,(6.9929)+(-0.1210)His+(0.0181)Thr+(-0.0052)Ala+(-0.0135)Arg+(0.0082)Pro;0.778,0.814,0.797,0.812,0.804,0.787,0.748,0.788,(6.0299)+(-0.0157)Arg+(0.0069)Pro+(-0.0037)Val+(0.0054)Lys+(-0.1446)Trp;0.778,0.813,0.708,0.687,0.712,0.799,0.693,0.723,(-1.4675)+(0.0442)Ser+(0.0094)Thr+(-0.3422)Met+(-0.0134)Lys+(0.0734)Ile;0.778,0.810,0.798,0.813,0.812,0.799,0.729,0.788,(6.6113)+(-0.0024)Gly+(0.0172)Thr+(-0.0186)Arg+(-0.0018)Val+(-0.1503)Trp;0.778,0.809,0.712,0.694,0.713,0.786,0.705,0.725,(-2.1835)+(0.0469)Ser+(-0.0002)Gln+(-0.3577)Met+(-0.0031)Orn+(0.0680)Ile;0.778,0.810,0.745,0.754,0.762,0.823,0.632,0.743,(3.0281)+(0.0372)Ser+(-0.1394)Asn+(-0.1039)Cit+(-0.0403)Tyr+(0.0506)Orn;0.778,0.806,0.734,0.735,0.712,0.816,0.717,0.745,(3.1585)+(-0.1035)Cit+(-0.0565)Tyr+(0.0398)Orn+(0.1556)Ile+(-0.0856)Leu;0.778,0.813,0.827,0.849,0.817,0.829,0.786,0.820,(4.8539)+(0.0049)Gln+(-0.0038)Ala+(-0.0161)Arg+(0.0039)Lys+(-0.1445)Trp;0.778,0.805,0.792,0.778,0.777,0.817,0.843,0.804,(1.3319)+(-0.0078)Ala+(-0.2622)Met+(-0.0111)Lys+(0.0598)Ile+(0.0711)Phe;0.778,0.808,0.751,0.736,0.758,0.815,0.732,0.760,(6.6027)+(-0.0259)Asn+(0.0022)Gly+(-0.1184)His+(-0.0153)Tyr+(0.0377)Orn;0.778,0.803,0.736,0.736,0

.680,0.805,0.806,0.757,(3.5694)+(0.0000)Gln+(-0.0616)Cit+(-0.0427)Tyr+(-0.0479)Val+(0.1536)Ile;0.778,0.815,0.763,0.763,0.778,0.831,0.681,0.763,(7.3662)+(0.0016)Gly+(-0.1149)His+(0.0300)Thr+(-0.0115)Arg+(-0.1377)Met;0.778,0.808,0.760,0.729,0.787,0.826,0.741,0.771,(6.7647)+(-0.1043)His+(-0.0634)Cit+(0.0056)Pro+(-0.0981)Met+(0.0508)Orn;0.778,0.807,0.828,0.839,0.826,0.824,0.802,0.823,(7.2181)+(-0.0456)Asn+(-0.0027)Ala+(0.0081)Tyr+(0.0009)Val+(-0.1313)Trp;0.778,0.807,0.745,0.719,0.740,0.796,0.788,0.761,(6.2846)+(-0.1172)His+(-0.0351)Cit+(0.0025)Arg+(-0.0265)Tyr+(0.0540)Ile;0.778,0.804,0.761,0.740,0.759,0.826,0.772,0.774,(6.6049)+(-0.1166)His+(-0.0056)Ala+(-0.0096)Arg+(0.0081)Pro+(0.0348)Orn;0.778,0.810,0.762,0.759,0.738,0.821,0.781,0.775,(3.1097)+(-0.0224)Asn+(0.0135)Thr+(-0.2637)Met+(0.1614)Ile+(-0.0780)Leu;0.778,0.807,0.761,0.733,0.763,0.824,0.785,0.776,(6.5214)+(-0.1265)His+(-0.0043)Ala+(-0.0071)Arg+(0.0343)Orn+(0.0115)Leu;0.778,0.812,0.808,0.821,0.810,0.817,0.762,0.803,(6.2585)+(-0.0041)Ala+(-0.0136)Arg+(-0.0010)Tyr+(0.0290)Orn+(-0.1351)Trp;0.778,0.805,0.767,0.737,0.783,0.843,0.759,0.781,(6.9116)+(-0.1069)His+(-0.0050)Ala+(-0.0752)Cit+(0.0007)Arg+(0.0574)Orn;0.778,0.805,0.741,0.706,0.773,0.822,0.708,0.752,(6.5355)+(-0.1221)His+(0.0128)Thr+(-0.0682)Cit+(0.0497)Orn+(-0.0068)Lys;0.778,0.813,0.719,0.719,0.711,0.789,0.685,0.726,(1.3976)+(0.0421)Ser+(-0.1314)Asn+(-0.0732)Cit+(-0.0440)Tyr+(0.0479)Ile;0.778,0.809,0.774,0.754,0.777,0.833,0.775,0.785,(6.8478)+(-0.0050)Asn+(-0.1125)His+(-0.0023)Ala+(-0.0586)Met+(0.0388)Orn;0.778,0.810,0.748,0.725,0.767,0.813,0.721,0.757,(6.8917)+(-0.0366)Asn+(-0.1280)His+(0.0179)Thr+(-0.0142)Arg+(0.0305)Orn;0.778,0.812,0.803,0.806,0.800,0.808,0.795,0.802,(5.5806)+(-0.0054)Ala+(0.0209)Orn+(-0.0029)Lys+(0.0119)Leu+(-0.1449)Trp;0.778,0.812,0.767,0.765,0.781,0.829,0.697,0.768,(7.5990)+(-0.0064)Asn+(-0.1135)His+(0.0308)Thr+(-0.0108)Arg+(-0.1337)Met;0.778,0.811,0.791,0.803,0.795,0.77

4,0.766,0.784,(5.5950)+(-0.0017)Gly+(-0.0172)Tyr+(0.0196)Orn+(0.0061)Leu+(-0.1474)Trp;0.778,0.813,0.817,0.837,0.810,0.798,0.791,0.809,(4.8940)+(-0.0025)Gly+(0.0042)Gln+(-0.0124)Tyr+(-0.0008)Lys+(-0.1463)Trp;0.778,0.812,0.799,0.806,0.795,0.805,0.788,0.798,(5.5195)+(-0.0052)Ala+(-0.0060)Tyr+(0.0204)Orn+(0.0109)Leu+(-0.1453)Trp;0.778,0.808,0.757,0.734,0.768,0.815,0.756,0.768,(6.4065)+(0.0020)Asn+(-0.1139)His+(0.0064)Pro+(-0.1034)Met+(0.0338)Orn;0.778,0.801,0.741,0.725,0.748,0.801,0.724,0.750,(6.6200)+(-0.0468)Asn+(0.0025)Gly+(-0.1245)His+(0.0163)Thr+(0.0042)Pro;0.778,0.812,0.769,0.768,0.780,0.834,0.700,0.771,(7.5858)+(-0.1134)His+(0.0306)Thr+(-0.0008)Ala+(-0.0111)Arg+(-0.1326)Met;0.778,0.808,0.709,0.692,0.708,0.782,0.705,0.722,(-2.2463)+(0.0471)Ser+(0.0037)Pro+(-0.3683)Met+(-0.0046)Orn+(0.0642)Ile;0.778,0.805,0.824,0.839,0.821,0.819,0.792,0.818,(7.3418)+(-0.0412)Asn+(-0.0023)Ala+(-0.0017)Arg+(0.0014)Val+(-0.1290)Trp;0.778,0.815,0.744,0.763,0.729,0.780,0.702,0.743,(-3.2481)+(0.0438)Ser+(-0.0034)Ala+(-0.0133)Tyr+(-0.3333)Met+(0.1124)Phe;0.778,0.812,0.834,0.855,0.823,0.830,0.805,0.828,(5.1104)+(-0.0017)Gly+(0.0055)Gln+(-0.0035)Ala+(-0.0133)Arg+(-0.1411)Trp;0.778,0.809,0.773,0.776,0.735,0.828,0.803,0.786,(1.5073)+(0.0042)Gln+(-0.0004)Pro+(-0.2721)Met+(0.1688)Ile+(-0.0819)Leu;0.778,0.813,0.830,0.852,0.820,0.834,0.793,0.825,(4.9387)+(0.0051)Gln+(-0.0037)Ala+(-0.0138)Arg+(0.0024)Tyr+(-0.1418)Trp;0.778,0.814,0.762,0.756,0.780,0.824,0.696,0.764,(7.3506)+(-0.1194)His+(0.0310)Thr+(-0.0107)Arg+(0.0035)Val+(-0.1477)Met;0.778,0.812,0.800,0.815,0.807,0.795,0.753,0.792,(6.2935)+(-0.0004)Gly+(-0.0117)Arg+(0.0069)Pro+(-0.0024)Val+(-0.1405)Trp;0.778,0.810,0.819,0.832,0.822,0.810,0.783,0.812,(7.0933)+(-0.0525)Asn+(0.0007)Gly+(0.0037)Tyr+(-0.0006)Val+(-0.1315)Trp;0.778,0.807,0.744,0.722,0.734,0.792,0.790,0.759,(6.2524)+(-0.1238)His+(-0.0040)Arg+(-0.0264)Tyr+(0.0008)Lys+(0.0518)Ile;0.

778,0.806,0.747,0.722,0.743,0.797,0.785,0.762,(6.4130)+(-0.1156)His+(-0.0332)Cit+(-0.0253)Tyr+(-0.0010)Lys+(0.0544)Ile;0.777,0.811,0.775,0.778,0.737,0.831,0.805,0.788,(1.5897)+(0.0043)Gln+(-0.2684)Met+(-0.0019)Lys+(0.1678)Ile+(-0.0808)Leu;0.777,0.800,0.738,0.747,0.679,0.801,0.792,0.755,(4.0769)+(-0.0249)Arg+(-0.0350)Tyr+(-0.0403)Val+(0.1911)Ile+(-0.0397)Leu;0.777,0.814,0.763,0.757,0.772,0.820,0.717,0.766,(6.7951)+(-0.1195)His+(0.0267)Thr+(0.0017)Tyr+(-0.1685)Met+(0.0065)Lys;0.777,0.802,0.730,0.711,0.739,0.790,0.720,0.740,(6.6218)+(-0.1331)His+(0.0205)Thr+(-0.0330)Cit+(-0.0274)Tyr+(0.0174)Leu;0.777,0.806,0.756,0.729,0.762,0.786,0.795,0.768,(5.3021)+(-0.0298)Asn+(-0.1282)His+(-0.0316)Cit+(0.0020)Pro+(0.0777)Phe;0.777,0.803,0.768,0.759,0.763,0.822,0.762,0.776,(7.2631)+(-0.0423)Asn+(-0.1197)His+(0.0191)Thr+(-0.0029)Ala+(0.0026)Lys;0.777,0.805,0.743,0.726,0.746,0.803,0.740,0.754,(6.3490)+(-0.1197)His+(0.0057)Pro+(-0.0240)Tyr+(-0.0020)Val+(0.0363)Orn;0.777,0.814,0.795,0.800,0.805,0.781,0.772,0.790,(5.4112)+(-0.0013)Gly+(0.0181)Orn+(-0.0040)Lys+(0.0066)Leu+(-0.1511)Trp;0.777,0.802,0.755,0.743,0.751,0.820,0.749,0.766,(6.4497)+(0.0015)Gly+(-0.1311)His+(0.0150)Thr+(-0.0035)Ala+(0.0033)Val;0.777,0.807,0.744,0.718,0.765,0.811,0.723,0.754,(6.6704)+(-0.1110)His+(-0.0653)Cit+(0.0049)Pro+(-0.0280)Tyr+(0.0539)Orn;0.777,0.814,0.731,0.739,0.736,0.777,0.669,0.730,(-3.3411)+(0.0461)Ser+(-0.3524)Met+(0.0090)Orn+(-0.0108)Lys+(0.1099)Phe;0.777,0.802,0.752,0.737,0.756,0.805,0.748,0.761,(7.0201)+(-0.0457)Asn+(-0.1204)His+(0.0178)Thr+(0.0045)Pro+(-0.0022)Val;0.777,0.811,0.730,0.715,0.696,0.835,0.764,0.753,(0.9807)+(0.0393)Ser+(-0.1332)Asn+(-0.0092)Lys+(0.1417)Ile+(-0.0719)Leu;0.777,0.809,0.809,0.817,0.810,0.805,0.789,0.805,(6.3207)+(0.0010)Gly+(-0.0026)Ala+(-0.1023)Met+(0.0185)Leu+(-0.1363)Trp;0.777,0.804,0.761,0.741,0.759,0.822,0.772,0.774,(6.6830)+(0.0041)Gly+(-0.1104)His+(-0.0217)Val+(-0.1118)Met+(0.0542)Leu;0.777,0.807,0.

812,0.829,0.819,0.800,0.762,0.802,(6.5754)+(0.0005)Gly+(-0.0075)Arg+(-0.1111)Met+(0.0104)Lys+(-0.1359)Trp;0.777,0.805,0.753,0.733,0.761,0.819,0.742,0.764,(6.4398)+(-0.0319)Asn+(0.0026)Gly+(-0.1190)His+(-0.0022)Val+(0.0360)Orn;0.777,0.808,0.733,0.685,0.751,0.809,0.766,0.753,(5.4202)+(-0.1287)His+(-0.0581)Cit+(-0.0013)Arg+(0.0378)Orn+(0.0379)Ile;0.777,0.808,0.761,0.745,0.758,0.823,0.768,0.773,(6.5570)+(-0.1212)His+(-0.0028)Ala+(-0.0155)Tyr+(0.0376)Orn+(0.0029)Lys;0.777,0.805,0.755,0.735,0.754,0.789,0.787,0.766,(5.0793)+(-0.1307)His+(-0.0299)Cit+(-0.0052)Val+(-0.0010)Lys+(0.0882)Phe;0.777,0.811,0.784,0.783,0.770,0.843,0.773,0.792,(5.1941)+(-0.0906)Asn+(0.0355)Thr+(-0.0518)Val+(-0.2609)Met+(0.0872)Leu;0.777,0.808,0.822,0.839,0.819,0.815,0.790,0.816,(7.1888)+(-0.0519)Asn+(-0.0025)Ala+(-0.0068)Arg+(0.0090)Lys+(-0.1344)Trp;0.777,0.802,0.759,0.746,0.755,0.820,0.762,0.771,(6.6742)+(-0.1298)His+(0.0161)Thr+(-0.0035)Ala+(0.0029)Val+(-0.0003)Lys;0.777,0.812,0.702,0.706,0.705,0.736,0.663,0.703,(-4.3336)+(0.0490)Ser+(0.0099)Pro+(-0.4282)Met+(-0.0049)Orn+(0.1086)Phe;0.777,0.808,0.731,0.698,0.745,0.803,0.738,0.746,(5.6116)+(0.0028)Gly+(-0.1378)His+(0.0289)Orn+(-0.0025)Lys+(0.0107)Leu;0.777,0.805,0.736,0.713,0.742,0.796,0.742,0.748,(6.1958)+(-0.1284)His+(0.0040)Pro+(-0.0276)Tyr+(0.0331)Orn+(0.0089)Leu;0.777,0.804,0.764,0.735,0.789,0.829,0.740,0.773,(7.0262)+(-0.0055)Asn+(-0.1046)His+(-0.0659)Cit+(-0.0723)Met+(0.0545)Orn;0.777,0.804,0.755,0.749,0.756,0.809,0.731,0.761,(7.3486)+(-0.0386)Asn+(-0.1204)His+(0.0212)Thr+(-0.0187)Tyr+(0.0014)Val;0.777,0.802,0.740,0.734,0.688,0.815,0.812,0.762,(4.2631)+(-0.0599)Cit+(-0.0335)Tyr+(-0.0468)Val+(-0.0098)Lys+(0.1584)Ile;0.777,0.806,0.733,0.710,0.753,0.809,0.695,0.742,(6.2025)+(0.0018)Gly+(-0.1358)His+(0.0143)Thr+(-0.0169)Arg+(0.0302)Orn;0.777,0.803,0.727,0.752,0.665,0.746,0.778,0.735,(0.8437)+(-0.0033)Gly+(-0.0827)Tyr+(0.1616)Ile+(-0.1001)Leu+(0.0839)Phe;0.777,0.801,0.757,0.753,0

.750,0.820,0.739,0.766,(6.8691)+(0.0006)Gly+(-0.1234)His+(0.0174)Thr+(-0.0023)Ala+(-0.0121)Tyr;0.777,0.804,0.769,0.759,0.764,0.824,0.764,0.778,(7.2841)+(-0.0374)Asn+(-0.1209)His+(0.0196)Thr+(-0.0031)Ala+(0.0016)Val;0.777,0.809,0.748,0.717,0.777,0.822,0.719,0.759,(6.8198)+(-0.0475)Asn+(-0.1173)His+(0.0147)Thr+(-0.0650)Cit+(0.0462)Orn;0.777,0.813,0.765,0.757,0.782,0.826,0.707,0.768,(7.1391)+(-0.1121)His+(0.0282)Thr+(-0.0310)Cit+(-0.1634)Met+(0.0059)Lys;0.777,0.812,0.730,0.744,0.731,0.758,0.667,0.725,(-3.7210)+(0.0456)Ser+(-0.0001)Gln+(-0.3780)Met+(-0.0039)Leu+(0.1109)Phe;0.777,0.810,0.820,0.825,0.816,0.816,0.816,0.818,(6.7994)+(-0.0447)Asn+(-0.0039)Ala+(0.0048)Tyr+(0.0140)Leu+(-0.1393)Trp;0.777,0.807,0.778,0.785,0.718,0.834,0.844,0.795,(1.5419)+(-0.0113)Ala+(-0.0289)Arg+(0.1790)Ile+(-0.1004)Leu+(0.0600)Phe;0.777,0.811,0.709,0.686,0.709,0.795,0.708,0.724,(-1.5674)+(0.0471)Ser+(0.0033)Pro+(-0.3256)Met+(-0.0119)Lys+(0.0693)Ile;0.777,0.807,0.758,0.734,0.779,0.821,0.732,0.767,(7.2287)+(-0.0227)Asn+(-0.1046)His+(-0.0671)Cit+(-0.0207)Tyr+(0.0573)Orn;0.777,0.803,0.716,0.711,0.643,0.791,0.826,0.743,(1.4168)+(0.0325)Ser+(-0.0112)Gly+(-0.0504)Tyr+(-0.0499)Val+(0.1519)Ile;0.777,0.803,0.736,0.709,0.746,0.804,0.736,0.749,(5.7379)+(0.0021)Gly+(-0.1289)His+(0.0040)Pro+(-0.0027)Val+(0.0314)Orn;0.777,0.798,0.735,0.705,0.752,0.802,0.735,0.748,(6.5476)+(-0.1355)His+(0.0190)Thr+(-0.0344)Cit+(-0.0062)Lys+(0.0166)Leu;0.777,0.810,0.737,0.695,0.756,0.802,0.760,0.753,(4.5177)+(-0.1369)His+(-0.0611)Cit+(-0.0005)Pro+(0.0400)Orn+(0.0640)Phe;0.777,0.812,0.798,0.814,0.806,0.802,0.736,0.789,(5.9422)+(-0.0179)Arg+(-0.0044)Val+(0.0270)Orn+(0.0034)Lys+(-0.1405)Trp;0.777,0.811,0.828,0.837,0.837,0.820,0.793,0.822,(7.2146)+(-0.0266)Asn+(-0.0007)Arg+(0.0211)Tyr+(-0.0968)Met+(-0.1307)Trp;0.777,0.808,0.771,0.751,0.772,0.835,0.774,0.783,(6.5777)+(-0.1169)His+(-0.0023)Ala+(-0.0793)Met+(0.0361)Orn+(0.0056)Lys;0.777,0.802,0.751,0.740,0.754,0.811

,0.729,0.758,(6.8970)+(-0.0445)Asn+(0.0021)Gly+(-0.1240)His+(0.0179)Thr+(0.0002)Val;0.777,0.800,0.735,0.726,0.736,0.789,0.719,0.742,(6.5039)+(-0.1265)His+(0.0158)Thr+(0.0058)Pro+(-0.0259)Tyr+(0.0013)Lys;0.777,0.806,0.776,0.790,0.718,0.836,0.820,0.791,(4.1497)+(-0.0088)Ala+(-0.0211)Arg+(-0.0325)Tyr+(0.1801)Ile+(-0.0882)Leu;0.777,0.809,0.807,0.816,0.811,0.793,0.784,0.801,(6.6479)+(-0.0532)Asn+(0.0008)Gly+(-0.0020)Tyr+(0.0103)Leu+(-0.1404)Trp;0.777,0.815,0.731,0.727,0.713,0.824,0.714,0.744,(0.6825)+(0.0408)Ser+(0.0127)Pro+(-0.0415)Val+(-0.3317)Met+(0.0696)Leu;0.777,0.806,0.741,0.717,0.752,0.807,0.736,0.753,(6.0503)+(-0.0328)Asn+(0.0032)Gly+(-0.1241)His+(0.0038)Pro+(0.0310)Orn;0.777,0.800,0.753,0.726,0.755,0.822,0.770,0.768,(6.6054)+(-0.1302)His+(0.0187)Thr+(-0.0053)Ala+(-0.0389)Cit+(0.0190)Leu;0.777,0.806,0.766,0.747,0.771,0.826,0.766,0.777,(6.8270)+(-0.1180)His+(-0.0032)Ala+(-0.0090)Arg+(-0.0006)Val+(0.0392)Orn;0.777,0.802,0.741,0.715,0.748,0.794,0.755,0.753,(6.5236)+(-0.0423)Asn+(-0.1358)His+(0.0184)Thr+(0.0017)Pro+(0.0119)Leu;0.777,0.807,0.748,0.730,0.753,0.803,0.746,0.758,(6.6732)+(-0.0224)Asn+(-0.1161)His+(0.0054)Pro+(-0.0242)Tyr+(0.0363)Orn;0.777,0.799,0.759,0.741,0.753,0.819,0.775,0.772,(6.5656)+(-0.0175)Asn+(0.0040)Gly+(-0.1246)His+(-0.0036)Ala+(0.0183)Leu;0.777,0.809,0.773,0.753,0.775,0.834,0.775,0.784,(6.7753)+(-0.1141)His+(-0.0024)Ala+(0.0006)Val+(-0.0634)Met+(0.0383)Orn;0.777,0.799,0.739,0.729,0.741,0.798,0.719,0.747,(6.5867)+(0.0008)Gly+(-0.1309)His+(0.0169)Thr+(-0.0198)Tyr+(0.0028)Val;0.777,0.807,0.747,0.721,0.749,0.780,0.787,0.759,(4.9207)+(-0.1394)His+(-0.0077)Arg+(0.0020)Pro+(-0.0009)Lys+(0.0741)Phe;0.777,0.803,0.746,0.706,0.750,0.803,0.799,0.765,(5.9864)+(-0.1207)His+(-0.0383)Cit+(0.0040)Arg+(-0.0052)Lys+(0.0512)Ile;0.777,0.802,0.748,0.713,0.751,0.800,0.796,0.765,(6.1299)+(-0.0129)Asn+(-0.1211)His+(-0.0336)Cit+(-0.0014)Pro+(0.0490)Ile;0.777,0.807,0.738,0.713,0.758,0.809,0.713,0.748,(6

.4302)+(-0.1349)His+(0.0153)Thr+(-0.0161)Arg+(0.0303)Orn+(-0.0006)Lys;0.777,0.810,0.817,0.824,0.814,0.813,0.809,0.815,(6.9085)+(-0.0411)Asn+(-0.0036)Ala+(-0.0022)Arg+(0.0144)Leu+(-0.1377)Trp;0.776,0.813,0.816,0.838,0.817,0.807,0.765,0.807,(4.7136)+(0.0046)Gln+(-0.0180)Arg+(-0.0015)Val+(0.0032)Lys+(-0.1490)Trp;0.776,0.809,0.820,0.829,0.830,0.813,0.779,0.813,(6.4764)+(0.0009)Gly+(0.0220)Tyr+(0.0014)Val+(-0.1285)Met+(-0.1352)Trp;0.776,0.806,0.738,0.707,0.767,0.825,0.696,0.749,(6.1155)+(0.0040)Gly+(-0.1179)His+(-0.0723)Cit+(0.0534)Orn+(-0.0032)Lys;0.776,0.811,0.717,0.687,0.729,0.818,0.698,0.733,(1.1241)+(0.0457)Ser+(-0.1191)Asn+(-0.0788)Cit+(-0.0190)Lys+(0.0529)Ile;0.776,0.804,0.731,0.717,0.738,0.792,0.711,0.740,(6.8275)+(-0.1369)His+(0.0229)Thr+(-0.0128)Arg+(-0.0268)Tyr+(0.0162)Leu;0.776,0.808,0.817,0.834,0.820,0.807,0.772,0.808,(6.7094)+(-0.0013)Ala+(-0.0071)Arg+(-0.1007)Met+(0.0104)Lys+(-0.1344)Trp;0.776,0.806,0.813,0.830,0.820,0.799,0.766,0.804,(6.6422)+(-0.0073)Arg+(-0.0000)Val+(-0.1103)Met+(0.0104)Lys+(-0.1359)Trp;0.776,0.795,0.730,0.722,0.678,0.805,0.807,0.753,(2.9692)+(-0.0013)Gly+(0.0080)Thr+(-0.0342)Arg+(-0.0587)Val+(0.1650)Ile;0.776,0.801,0.698,0.705,0.626,0.795,0.761,0.722,(0.8425)+(0.0172)Ser+(-0.0459)Tyr+(-0.0388)Val+(0.1795)Ile+(-0.0376)Leu;0.776,0.803,0.747,0.711,0.751,0.802,0.796,0.765,(6.1832)+(-0.0087)Asn+(-0.1188)His+(-0.0343)Cit+(-0.0032)Lys+(0.0496)Ile;0.776,0.802,0.736,0.735,0.680,0.807,0.806,0.757,(3.5836)+(-0.0614)Cit+(-0.0002)Pro+(-0.0425)Tyr+(-0.0479)Val+(0.1539)Ile;0.776,0.809,0.757,0.739,0.769,0.825,0.735,0.767,(6.3415)+(0.0026)Gly+(-0.1182)His+(0.0004)Val+(-0.0800)Met+(0.0362)Orn;0.776,0.804,0.769,0.764,0.770,0.828,0.740,0.776,(7.6815)+(-0.0328)Asn+(-0.1177)His+(0.0227)Thr+(-0.0026)Ala+(-0.0111)Arg;0.776,0.809,0.820,0.835,0.824,0.810,0.780,0.812,(7.3176)+(-0.0279)Asn

+(0.0002)Arg+(0.0016)Val+(-0.0671)Met+(-0.1277)Trp;0.776,0.810,0.828,

0.835,0.832,0.823,0.801,0.823,(6.6909)+(-0.0022)Ala+(0.0235)Tyr+(0.0024)Val+(-0.1143)Met+(-0.1347)Trp;0.776,0.805,0.768,0.766,0.762,0.823,0.748,0.775,(7.5534)+(-0.0391)Asn+(-0.1153)His+(0.0215)Thr+(-0.0021)Ala+(-0.0128)Tyr;0.776,0.808,0.756,0.736,0.764,0.813,0.751,0.766,(6.5311)+(-0.1124)His+(0.0069)Pro+(-0.0116)Tyr+(-0.0858)Met+(0.0354)Orn;0.776,0.805,0.745,0.727,0.752,0.811,0.730,0.755,(6.2859)+(0.0016)Gly+(-0.1245)His+(-0.0172)Tyr+(-0.0002)Val+(0.0370)Orn;0.776,0.806,0.734,0.707,0.754,0.805,0.713,0.745,(6.2772)+(-0.1355)His+(0.0146)Thr+(-0.0164)Arg+(0.0022)Pro+(0.0286)Orn;0.776,0.811,0.802,0.817,0.810,0.802,0.747,0.794,(6.2314)+(-0.0012)Gly+(-0.0154)Arg+(-0.0038)Val+(0.0286)Orn+(-0.1375)Trp;0.776,0.810,0.711,0.689,0.711,0.797,0.707,0.726,(-1.5479)+(0.0465)Ser+(-0.3155)Met+(0.0035)Orn+(-0.0126)Lys+(0.0723)Ile;0.776,0.803,0.739,0.733,0.746,0.797,0.695,0.743,(7.0862)+(-0.1224)His+(0.0209)Thr+(-0.0147)Arg+(0.0062)Pro+(-0.0255)Tyr;0.776,0.812,0.762,0.755,0.750,0.839,0.752,0.774,(3.4453)+(0.0047)Gly+(-0.0746)Cit+(-0.2173)Met+(0.1726)Ile+(-0.0799)Leu;0.776,0.799,0.766,0.744,0.752,0.822,0.815,0.783,(6.7852)+(-0.1198)His+(-0.0032)Ala+(-0.0186)Val+(0.0019)Lys+(0.0438)Leu;0.776,0.809,0.794,0.803,0.804,0.778,0.758,0.786,(5.8766)+(-0.0002)Gly+(-0.0125)Arg+(0.0052)Pro+(0.0067)Leu+(-0.1511)Trp;0.776,0.808,0.787,0.785,0.724,0.857,0.874,0.810,(3.8910)+(-0.0716)Asn+(-0.0109)Ala+(0.0046)Pro+(0.1579)Ile+(-0.0809)Leu;0.776,0.801,0.760,0.731,0.782,0.829,0.739,0.770,(7.1010)+(-0.0311)Asn+(-0.1044)His+(-0.0666)Cit+(-0.0035)Val+(0.0556)Orn;0.776,0.803,0.738,0.737,0.680,0.808,0.812,0.759,(3.6860)+(-0.0006)Gly+(-0.0603)Cit+(-0.0428)Tyr+(-0.0480)Val+(0.1539)Ile;0.776,0.813,0.768,0.763,0.786,0.834,0.697,0.770,(7.6634)+(-0.1087)His+(0.0308)Thr+(-0.0277)Cit+(-0.0069)Arg+(-0.1414)Met;0.776,0.811,0.810,0.818,0.812,0.798,0.794,0.806,(6.2526)+(-0.0025)Ala+(-0.1143)Met+(0.0055)Lys+(0.0158)Leu+(-0.1401)Trp;0.776,0.810,0.811,0.813,0.

824,0.795,0.791,0.806,(5.9898)+(0.0187)Tyr+(-0.1603)Met+(0.0054)Lys+(0.0129)Leu+(-0.1457)Trp;0.776,0.812,0.738,0.751,0.726,0.748,0.724,0.737,(-3.1813)+(0.0543)Ser+(-0.0068)Gly+(-0.0236)Tyr+(-0.3396)Met+(0.1097)Phe;0.776,0.809,0.791,0.791,0.727,0.861,0.872,0.813,(3.8613)+(-0.0731)Asn+(0.0018)Thr+(-0.0099)Ala+(0.1632)Ile+(-0.0819)Leu;0.776,0.803,0.733,0.705,0.744,0.803,0.734,0.746,(5.6482)+(0.0024)Gly+(-0.1324)His+(0.0033)Pro+(0.0299)Orn+(-0.0006)Lys;0.776,0.803,0.752,0.726,0.756,0.786,0.789,0.764,(5.1074)+(-0.1337)His+(-0.0322)Cit+(-0.0030)Lys+(0.0005)Leu+(0.0795)Phe;0.776,0.802,0.756,0.747,0.750,0.816,0.745,0.765,(6.8367)+(-0.1276)His+(0.0180)Thr+(-0.0029)Ala+(-0.0161)Tyr+(0.0039)Val;0.776,0.810,0.713,0.692,0.710,0.797,0.711,0.728,(-1.6404)+(0.0463)Ser+(0.0004)Gln+(-0.3178)Met+(-0.0122)Lys+(0.0731)Ile;0.776,0.809,0.736,0.696,0.757,0.800,0.754,0.752,(4.6024)+(-0.1359)His+(-0.0584)Cit+(-0.0033)Arg+(0.0397)Orn+(0.0641)Phe;0.776,0.810,0.731,0.768,0.710,0.762,0.652,0.723,(-0.5218)+(0.0481)Ser+(-0.1523)Asn+(-0.0182)Arg+(-0.0621)Tyr+(0.0938)Phe;0.776,0.804,0.756,0.737,0.755,0.788,0.784,0.766,(5.1699)+(-0.1300)His+(-0.0261)Cit+(-0.0046)Arg+(-0.0057)Val+(0.0893)Phe;0.776,0.809,0.776,0.767,0.758,0.838,0.792,0.789,(4.1851)+(-0.0046)Asn+(-0.0652)Cit+(-0.2014)Met+(0.1693)Ile+(-0.0803)Leu;0.776,0.807,0.772,0.792,0.734,0.818,0.765,0.777,(0.2197)+(0.0451)Ser+(-0.1845)Asn+(-0.0044)Ala+(-0.0171)Val+(0.1012)Phe;0.776,0.805,0.770,0.781,0.701,0.834,0.838,0.789,(3.4137)+(-0.0094)Ala+(-0.0353)Tyr+(-0.0053)Lys+(0.1706)Ile+(-0.0810)Leu;0.776,0.811,0.755,0.754,0.745,0.825,0.725,0.763,(3.4838)+(0.0291)Thr+(0.0100)Pro+(-0.0485)Val+(-0.3595)Met+(0.0773)Leu;0.776,0.809,0.829,0.841,0.830,0.824,0.799,0.824,(7.3292)+(-0.0439)Asn+(-0.0025)Ala+(-0.0024)Arg+(0.0095)Tyr+(-0.1299)Trp;0.776,0.800,0.731,0.709,0.687,0.822,0.813,0.758,(3.4960)+(0.0071)Thr+(-0.0658)Cit+(-0.0497)Val+(-0.0177)Lys+(0.1604)Ile;0.776,0.811,0.789,0.811,0.802,0.797

,0.700,0.777,(6.3748)+(0.0166)Thr+(-0.0181)Arg+(-0.0096)Tyr+(-0.0010)Val+(-0.1465)Trp;0.776,0.805,0.756,0.734,0.763,0.812,0.761,0.767,(6.6017)+(-0.0324)Asn+(-0.1146)His+(0.0047)Pro+(-0.0047)Val+(0.0354)Orn;0.776,0.805,0.747,0.750,0.765,0.811,0.656,0.746,(2.0893)+(0.0460)Ser+(-0.0737)Asn+(-0.0690)Cit+(0.0114)Pro+(-0.2170)Met;0.776,0.804,0.742,0.718,0.751,0.811,0.738,0.755,(5.9034)+(0.0020)Gly+(-0.1297)His+(-0.0015)Val+(0.0332)Orn+(0.0005)Lys;0.776,0.804,0.764,0.742,0.768,0.823,0.768,0.775,(6.6779)+(-0.1218)His+(-0.0035)Ala+(-0.0108)Arg+(0.0371)Orn+(0.0038)Lys;0.776,0.800,0.748,0.730,0.754,0.801,0.746,0.758,(6.8277)+(-0.0440)Asn+(-0.1251)His+(0.0172)Thr+(0.0038)Pro+(0.0010)Lys;0.776,0.807,0.753,0.730,0.754,0.786,0.787,0.764,(4.9779)+(-0.1388)His+(-0.0078)Arg+(-0.0000)Lys+(-0.0018)Leu+(0.0778)Phe;0.776,0.799,0.735,0.709,0.747,0.799,0.729,0.746,(6.4960)+(-0.1410)His+(0.0196)Thr+(-0.0118)Arg+(-0.0024)Lys+(0.0136)Leu;0.776,0.806,0.776,0.763,0.757,0.796,0.836,0.788,(0.6199)+(-0.0102)Ala+(0.0093)Pro+(-0.3014)Met+(0.0478)Ile+(0.0688)Phe;0.776,0.796,0.733,0.715,0.739,0.796,0.722,0.743,(6.0770)+(0.0017)Gly+(-0.1336)His+(0.0127)Thr+(0.0038)Pro+(-0.0008)Lys;0.776,0.804,0.758,0.755,0.763,0.814,0.717,0.762,(7.7473)+(-0.0411)Asn+(-0.1111)His+(0.0229)Thr+(-0.0319)Cit+(-0.0169)Tyr;0.776,0.806,0.730,0.699,0.750,0.801,0.719,0.742,(6.1045)+(-0.1425)His+(0.0156)Thr+(-0.0154)Arg+(0.0261)Orn+(0.0082)Leu;0.776,0.808,0.710,0.692,0.711,0.785,0.701,0.722,(-2.1055)+(0.0465)Ser+(-0.0004)Gln+(-0.0027)Tyr+(-0.3527)Met+(0.0671)Ile;0.776,0.809,0.774,0.775,0.703,0.833,0.875,0.796,(1.1906)+(-0.0120)Ala+(-0.0121)Lys+(0.1665)Ile+(-0.0880)Leu+(0.0535)Phe;0.776,0.804,0.764,0.735,0.788,0.830,0.740,0.774,(6.9974)+(-0.1043)His+(-0.0660)Cit+(-0.0010)Val+(-0.0747)Met+(0.0553)Orn;0.776,0.807,0.740,0.721,0.743,0.800,0.737,0.750,(6.2195)+(-0.1242)His+(0.0052)Pro+(-0.0269)Tyr+(0.0343)Orn+(0.0021)Lys;0.776,0.806,0.760,0.744,0.764,0.817,0.753,0.770,

(6.9193)+(-0.0230)Asn+(-0.1145)His+(-0.0165)Tyr+(-0.0015)Val+(0.0400)Orn;0.776,0.805,0.726,0.694,0.757,0.817,0.681,0.737,(5.7329)+(0.0033)Gly+(-0.1285)His+(0.0087)Thr+(-0.0690)Cit+(0.0466)Orn;0.776,0.804,0.748,0.720,0.754,0.785,0.785,0.761,(5.0441)+(-0.1337)His+(-0.0327)Cit+(0.0021)Pro+(-0.0033)Lys+(0.0783)Phe;0.776,0.814,0.768,0.759,0.786,0.833,0.706,0.771,(7.4276)+(-0.1093)His+(0.0292)Thr+(-0.0322)Cit+(0.0037)Tyr+(-0.1513)Met;0.776,0.810,0.793,0.812,0.805,0.793,0.719,0.782,(6.7568)+(-0.0027)Gly+(0.0186)Thr+(-0.0177)Arg+(-0.0128)Tyr+(-0.1485)Trp;0.776,0.808,0.770,0.750,0.774,0.828,0.773,0.781,(7.0143)+(-0.0154)Asn+(-0.1151)His+(-0.0032)Ala+(-0.0075)Arg+(0.0392)Orn;0.776,0.794,0.732,0.714,0.738,0.796,0.723,0.743,(6.0289)+(0.0017)Gly+(-0.1340)His+(0.0123)Thr+(0.0038)Pro+(-0.0002)Val;0.776,0.811,0.722,0.733,0.727,0.756,0.661,0.719,(-3.8154)+(0.0463)Ser+(-0.0004)Gln+(-0.3853)Met+(0.0029)Orn+(0.1065)Phe;0.775,0.798,0.744,0.724,0.738,0.805,0.768,0.759,(6.3548)+(0.0028)Gly+(-0.1248)His+(-0.0067)Tyr+(-0.0184)Val+(0.0430)Leu;0.775,0.805,0.744,0.726,0.749,0.809,0.732,0.754,(6.1835)+(0.0016)Gly+(-0.1266)His+(-0.0191)Tyr+(0.0359)Orn+(0.0022)Lys;0.775,0.809,0.789,0.798,0.808,0.783,0.731,0.780,(6.0770)+(-0.0020)Gly+(0.0159)Thr+(-0.0195)Arg+(0.0077)Leu+(-0.1606)Trp;0.775,0.804,0.747,0.724,0.757,0.812,0.740,0.758,(6.1765)+(-0.0331)Asn+(0.0030)Gly+(-0.1250)His+(0.0326)Orn+(0.0022)Lys;0.775,0.809,0.809,0.820,0.813,0.787,0.790,0.803,(6.6886)+(-0.0584)Asn+(-0.0041)Tyr+(0.0045)Lys+(0.0081)Leu+(-0.1423)Trp;0.775,0.806,0.769,0.764,0.789,0.856,0.676,0.771,(1.9384)+(0.0320)Ser+(-0.0060)Ala+(-0.1086)Cit+(-0.1974)Met+(0.0495)Orn;0.775,0.805,0.744,0.713,0.766,0.814,0.730,0.756,(6.6643)+(-0.1175)His+(-0.0641)Cit+(-0.0260)Tyr+(0.0530)Orn+(0.0091)Leu;0.775,0.799,0.742,0.751,0.704,0.806,0.748,0.752,(3.4485)+(0.0008)Thr+(-0.0764)Cit+(-0.0503)Tyr+(0.1633)Ile+(-0.0845)Leu;0.775,0.797,0.773,0.753,0.760,0.822,0.819,0.788,(7.4056)+(-0.

0272)Asn+(-0.1096)His+(-0.0026)Ala+(-0.0212)Val+(0.0481)Leu;0.775,0.809,0.802,0.811,0.810,0.785,0.774,0.795,(6.0445)+(0.0007)Gly+(-0.1334)Met+(0.0056)Lys+(0.0139)Leu+(-0.1418)Trp;0.775,0.808,0.728,0.714,0.694,0.825,0.765,0.749,(0.7689)+(0.0371)Ser+(-0.1537)Asn+(0.0054)Orn+(0.1398)Ile+(-0.0768)Leu;0.775,0.804,0.754,0.751,0.754,0.811,0.721,0.759,(7.2725)+(-0.0426)Asn+(0.0013)Gly+(-0.1185)His+(0.0205)Thr+(-0.0154)Tyr;0.775,0.811,0.791,0.809,0.806,0.798,0.706,0.780,(6.1785)+(0.0150)Thr+(-0.0197)Arg+(-0.0020)Val+(0.0018)Lys+(-0.1502)Trp;0.775,0.813,0.695,0.707,0.693,0.730,0.644,0.694,(-4.0024)+(0.0471)Ser+(0.0107)Pro+(-0.0257)Tyr+(-0.3938)Met+(0.1138)Phe;0.775,0.806,0.820,0.837,0.821,0.820,0.773,0.813,(6.9992)+(0.0004)Gly+(-0.0012)Ala+(-0.0013)Arg+(-0.0761)Met+(-0.1258)Trp;0.775,0.809,0.757,0.736,0.767,0.809,0.756,0.767,(6.2073)+(-0.1174)His+(0.0065)Pro+(-0.1186)Met+(0.0309)Orn+(0.0057)Lys;0.775,0.805,0.735,0.725,0.696,0.831,0.774,0.757,(0.4451)+(0.0361)Ser+(-0.1606)Asn+(0.0017)Gln+(0.1407)Ile+(-0.0768)Leu;0.775,0.802,0.746,0.718,0.751,0.781,0.783,0.758,(4.8756)+(-0.1361)His+(-0.0319)Cit+(0.0019)Pro+(-0.0018)Leu+(0.0771)Phe;0.775,0.804,0.760,0.726,0.788,0.824,0.749,0.772,(6.7413)+(-0.1115)His+(-0.0621)Cit+(-0.0950)Met+(0.0496)Orn+(0.0111)Leu;0.775,0.805,0.757,0.727,0.770,0.817,0.768,0.771,(6.3252)+(0.0088)Asn+(-0.1245)His+(-0.1078)Met+(0.0325)Orn+(0.0141)Leu;0.775,0.806,0.763,0.787,0.745,0.803,0.711,0.761,(0.2876)+(0.0482)Ser+(-0.1796)Asn+(-0.0184)Arg+(-0.0196)Val+(0.1027)Phe;0.775,0.810,0.742,0.727,0.691,0.852,0.807,0.769,(0.4059)+(0.0443)Ser+(-0.1130)Asn+(-0.0094)Ala+(-0.0163)Lys+(0.0645)Ile;0.775,0.811,0.774,0.769,0.753,0.835,0.785,0.785,(4.2895)+(-0.0651)Cit+(-0.0122)Tyr+(-0.1853)Met+(0.1703)Ile+(-0.0802)Leu;0.775,0.796,0.746,0.719,0.740,0.801,0.791,0.763,(6.4271)+(-0.1234)His+(0.0046)Pro+(-0.0212)Val+(0.0003)Lys+(0.0423)Leu;0.775,0.808,0.755,0.738,0.765,0.823,0.734,0.765,(6.1047)+(0.0028)Gly+(-0.121

5)His+(-0.0981)Met+(0.0336)Orn+(0.0059)Lys;0.775,0.804,0.762,0.733,0.788,0.828,0.740,0.772,(6.8758)+(-0.1072)His+(-0.0645)Cit+(-0.0836)Met+(0.0530)Orn+(0.0022)Lys;0.775,0.802,0.747,0.711,0.750,0.799,0.796,0.764,(6.0356)+(-0.0158)Asn+(-0.1211)His+(-0.0353)Cit+(0.0022)Arg+(0.0473)Ile;0.775,0.809,0.821,0.831,0.831,0.819,0.776,0.814,(6.6394)+(0.0010)Gly+(-0.0029)Arg+(0.0235)Tyr+(-0.1228)Met+(-0.1329)Trp;0.775,0.801,0.757,0.744,0.761,0.808,0.744,0.764,(7.0845)+(-0.0448)Asn+(-0.1232)His+(0.0185)Thr+(-0.0009)Val+(
0.0020)Lys;0.775,0.801,0.785,0.793,0.776,0.784,0.784,0.784,(1.0280)+(0.0033)Gly+(-0.0410)Val+(-0.3357)Met+(0.0581)Leu+(0.1109)Phe;0.775,0.800,0.723,0.702,0.690,0.819,0.779,0.747,(2.7035)+(-0.0691)Cit+(-0.0246)Arg+(-0.0557)Val+(0.0408)Orn+(0.1541)Ile;0.775,0.804,0.763,0.766,0.687,0.827,0.868,0.787,(0.4482)+(-0.0006)Gln+(-0.0128)Ala+(0.1682)Ile+(-0.0942)Leu+(0.0483)Phe;0.775,0.812,0.762,0.758,0.779,0.818,0.695,0.762,(7.2139)+(-0.1190)His+(0.0300)Thr+(-0.0152)Arg+(-0.1642)Met+(0.0093)Lys;0.775,0.810,0.821,0.829,0.834,0.807,0.782,0.813,(6.4569)+(-0.0081)Arg+(0.0221)Tyr+(-0.1444)Met+(0.0101)Lys+(-0.1414)Trp;0.775,0.800,0.761,0.753,0.760,0.824,0.740,0.769,(7.1294)+(-0.1271)His+(0.0200)Thr+(-0.0032)Ala+(-0.0128)Arg+(0.0024)Val;0.775,0.809,0.755,0.765,0.751,0.796,0.708,0.755,(0.4481)+(0.0480)Ser+(-0.1885)Asn+(-0.0642)Cit+(-0.0171)Val+(0.1043)Phe;0.775,0.802,0.743,0.706,0.747,0.800,0.793,0.762,(5.8611)+(-0.1254)His+(-0.0346)Cit+(0.0008)Arg+(-0.0016)Pro+(0.0496)Ile;0.775,0.811,0.796,0.807,0.806,0.781,0.754,0.787,(5.9505)+(-0.0004)Gly+(-0.0148)Arg+(0.0059)Pro+(0.0037)Lys+(-0.1491)Trp;0.775,0.810,0.796,0.814,0.802,0.801,0.733,0.788,(6.1508)+(-0.0149)Arg+(-0.0077)Tyr+(-0.0033)Val+(0.0291)Orn+(-0.1349)Trp;0.775,0.800,0.748,0.738,0.752,0.806,0.726,0.755,(6.7892)+(-0.0474)Asn+(0.0022)Gly+(-0.1250)His+(0.0172)Thr+(0.0022)Lys;0.775,0.809,0.714,0.701,0.718,0.787,0.685,0.723,(-

1.7838)+(0.0475)Ser+(-0.0142)Arg+(-0.3357)Met+(0.0008)Orn+(0.0669)Ile
;0.775,0.809,0.812,0.830,0.816,0.800,0.770,0.804,(6.9195)+(-0.0582)As
n+(0.0009)Gly+(-0.0080)Arg+(0.0083)Lys+(-0.1381)Trp;0.775,0.797,0.740
,0.720,0.745,0.797,0.739,0.750,(6.3168)+(-0.1323)His+(0.0139)Thr+(0.0
037)Pro+(-0.0004)Val+(-0.0009)Lys;0.775,0.802,0.738,0.706,0.765,0.820
,0.709,0.750,(6.2323)+(-0.1242)His+(0.0103)Thr+(-0.0646)Cit+(-0.0025)
Val+(0.0476)Orn;0.775,0.812,0.796,0.813,0.800,0.794,0.747,0.788,(6.34
94)+(-0.0109)Arg+(0.0075)Pro+(-0.0088)Tyr+(-0.0020)Val+(-0.1375)Trp;0
.775,0.809,0.713,0.696,0.713,0.785,0.706,0.725,(-2.1949)+(0.0465)Ser+
(-0.0018)Tyr+(-0.3553)Met+(-0.0031)Orn+(0.0680)Ile;0.775,0.807,0.818,
0.833,0.818,0.816,0.777,0.811,(6.7872)+(0.0005)Gly+(-0.0017)Ala+(0.00
30)Val+(-0.0826)Met+(-0.1300)Trp;0.775,0.810,0.710,0.698,0.715,0.783,
0.680,0.719,(-1.7727)+(0.0480)Ser+(-0.0151)Arg+(0.0042)Pro+(-0.3459)M
et+(0.0622)Ile;0.775,0.813,0.732,0.753,0.737,0.765,0.643,0.725,(-3.18
47)+(0.0474)Ser+(-0.0175)Arg+(-0.0179)Tyr+(-0.3335)Met+(0.1166)Phe;0.
775,0.808,0.706,0.690,0.704,0.780,0.698,0.718,(-2.1589)+(0.0461)Ser+(
0.0038)Pro+(-0.0056)Tyr+(-0.3595)Met+(0.0626)Ile;0.775,0.806,0.749,0.
726,0.754,0.807,0.757,0.761,(6.6260)+(-0.0181)Asn+(-0.1250)His+(-0.02
24)Tyr+(0.0356)Orn+(0.0103)Leu;0.775,0.802,0.743,0.717,0.751,0.804,0.
754,0.756,(6.0159)+(-0.1264)His+(0.0039)Pro+(-0.0035)Val+(0.0327)Orn+
(0.0004)Lys;0.775,0.810,0.830,0.838,0.835,0.827,0.799,0.825,(6.8822)+
(-0.0018)Ala+(-0.0022)Arg+(0.0249)Tyr+(-0.1095)Met+(-0.1315)Trp;0.775
,0.797,0.767,0.744,0.754,0.821,0.814,0.783,(6.8406)+(-0.0128)Asn+(-0.
1173)His+(-0.0058)Ala+(0.0082)Pro+(0.0132)Leu;0.775,0.811,0.712,0.690
,0.711,0.796,0.711,0.727,(-1.5627)+(0.0469)Ser+(0.0009)Tyr+(-0.3177)M
et+(-0.0120)Lys+(0.0732)Ile;0.775,0.809,0.773,0.755,0.774,0.833,0.772
,0.784,(6.8172)+(-0.1131)His+(-0.0022)Ala+(-0.0039)Tyr+(-0.0574)Met+(
0.0393)Orn;0.775,0.805,0.762,0.778,0.785,0.827,0.623,0.753,(2.8569)+(

0.0386)Ser+(-0.0861)Asn+(0.0148)Thr+(-0.0674)Cit+(-0.2025)Met;0.775,0.801,0.747,0.710,0.750,0.803,0.795,0.765,(6.1179)+(-0.1206)His+(-0.0347)Cit+(-0.0014)Pro+(-0.0039)Lys+(0.0520)Ile;0.775,0.801,0.738,0.728,0.745,0.801,0.706,0.745,(6.8687)+(-0.1188)His+(0.0178)Thr+(-0.0318)Cit+(0.0060)Pro+(-0.0253)Tyr;0.775,0.798,0.741,0.730,0.743,0.798,0.725,0.749,(6.6760)+(-0.1304)His+(0.0173)Thr+(-0.0210)Tyr+(0.0025)Val+(0.0006)Lys;0.775,0.796,0.723,0.733,0.651,0.789,0.798,0.743,(2.7440)+(-0.0023)Pro+(-0.0431)Tyr+(-0.0395)Val+(0.1851)Ile+(-0.0384)Leu;0.775,0.810,0.795,0.811,0.799,0.788,0.750,0.787,(6.3441)+(-0.0006)Gly+(-0.0107)Arg+(0.0071)Pro+(-0.0102)Tyr+(-0.1403)Trp;0.775,0.807,0.818,0.835,0.820,0.801,0.782,0.809,(7.1986)+(-0.0584)Asn+(-0.0079)Arg+(-0.0025)Val+(0.0096)Lys+(-0.1346)Trp;0.775,0.802,0.766,0.762,0.755,0.828,0.755,0.775,(6.8361)+(0.0037)Gly+(-0.1025)His+(-0.0043)Ala+(0.0120)Pro+(-0.0816)Met;0.775,0.813,0.811,0.826,0.815,0.798,0.770,0.802,(4.4694)+(0.0044)Gln+(-0.0170)Arg+(0.0000)Lys+(0.0080)Leu+(-0.1564)Trp;0.775,0.806,0.772,0.754,0.778,0.831,0.766,0.782,(6.9765)+(-0.1120)His+(-0.0023)Ala+(-0.0061)Arg+(-0.0552)Met+(0.0403)Orn;0.775,0.806,0.752,0.727,0.772,0.819,0.728,0.762,(6.8800)+(-0.1100)His+(-0.0667)Cit+(-0.0214)Tyr+(-0.0008)Val+(0.0569)Orn;0.775,0.809,0.758,0.741,0.768,0.825,0.734,0.767,(6.3900)+(0.0025)Gly+(-0.1174)His+(-0.0023)Tyr+(-0.0756)Met+(0.0370)Orn;0.775,0.806,0.755,0.739,0.759,0.810,0.753,0.765,(6.7566)+(-0.0251)Asn+(-0.1194)His+(-0.0206)Tyr+(0.0374)Orn+(0.0038)Lys;0.775,0.803,0.760,0.739,0.767,0.815,0.764,0.771,(6.6529)+(-0.0327)Asn+(-0.1179)His+(-0.0038)Val+(0.0362)Orn+(0.0032)Lys;0.775,0.803,0.773,0.764,0.773,0.833,0.750,0.780,(7.7729)+(-0.0400)Asn+(-0.1096)His+(0.0218)Thr+(-0.0032)Ala+(-0.0351)Cit;0.775,0.813,0.816,0.840,0.814,0.810,0.762,0.807,(4.8102)+(0.0049)Gln+(-0.0154)Arg+(-0.0056)Tyr+(-0.0003)Val+(-0.1451)Trp;0.775,0.797,0.739,0.723,0.744,0.801,0.728,0.749,(6.2597)+(0.0015

)Gly+(-0.1348)His+(0.0141)Thr+(0.0013)Val+(-0.0008)Lys;0.774,0.803,0.791,0.794,0.736,0.857,0.850,0.809,(4.3257)+(-0.0481)Asn+(-0.0094)Ala+(-0.0175)Arg+(0.1713)Ile+(-0.0860)Leu;0.774,0.804,0.743,0.720,0.756,0.802,0.737,0.754,(6.8967)+(-0.0351)Asn+(-0.1349)His+(0.0216)Thr+(-0.0107)Arg+(0.0124)Leu;0.774,0.804,0.755,0.751,0.754,0.806,0.732,0.761,(7.2968)+(-0.0440)Asn+(-0.1198)His+(0.0204)Thr+(-0.0193)Tyr+(0.0035)Lys;0.774,0.802,0.752,0.727,0.758,0.785,0.787,0.764,(5.1275)+(-0.1336)His+(-0.0310)Cit+(-0.0015)Arg+(-0.0025)Lys+(0.0800)Phe;0.774,0.799,0.745,0.759,0.702,0.809,0.751,0.755,(2.3712)+(0.0028)Gln+(-0.0827)Cit+(-0.0531)Tyr+(0.1640)Ile+(-0.0853)Leu;0.774,0.794,0.745,0.727,0.732,0.795,0.786,0.760,(6.6827)+(-0.1187)His+(0.0059)Pro+(-0.0147)Tyr+(-0.0200)Val+(0.0418)Leu;0.774,0.811,0.787,0.797,0.794,0.778,0.749,0.780,(5.4298)+(-0.0149)Tyr+(0.0197)Orn+(-0.0031)Lys+(0.0078)Leu+(-0.1463)Trp;0.774,0.796,0.757,0.745,0.744,0.822,0.769,0.770,(6.3954)+(0.0032)Gly+(-0.1175)His+(-0.0054)Ala+(0.0094)Pro+(0.0022)Val;0.774,0.811,0.792,0.802,0.803,0.778,0.754,0.784,(5.7671)+(-0.0141)Arg+(0.0052)Pro+(0.0021)Lys+(0.0056)Leu+(-0.1526)Trp;0.774,0.809,0.745,0.738,0.702,0.841,0.785,0.767,(0.1896)+(0.0432)Ser+(-0.1270)Asn+(-0.0098)Ala+(-0.0159)Arg+(0.0555)Ile;0.774,0.800,0.757,0.752,0.749,0.817,0.741,0.765,(6.8540)+(-0.1242)His+(0.0171)Thr+(-0.0024)Ala+(-0.0140)Tyr+(0.0019)Lys;0.774,0.796,0.726,0.717,0.675,0.805,0.796,0.748,(2.9234)+(-0.0004)Gln+(0.0076)Thr+(-0.0339)Arg+(-0.0585)Val+(0.1651)Ile;0.774,0.809,0.756,0.753,0.730,0.817,0.774,0.769,(2.6770)+(0.0003)Gly+(0.0119)Thr+(-0.2844)Met+(0.1648)Ile+(-0.0790)Leu;0.774,0.797,0.725,0.702,0.740,0.798,0.705,0.736,(6.0802)+(0.0026)Gly+(-0.1432)His+(0.0176)Thr+(-0.0138)Arg+(0.0136)Leu;0.774,0.809,0.796,0.810,0.812,0.792,0.727,0.785,(6.4241)+(-0.0022)Gly+(0.0164)Thr+(-0.0192)Arg+(0.0006)Lys+(-0.1539)Trp;0.774,0.807,0.818,0.833,0.821,0.810,0.776,0.810,(7.2030)+(-0.0478)Asn+(0.0007)G

ly+(-0.0029)Arg+(-0.0001)Val+(-0.1301)Trp;0.774,0.807,0.813,0.814,0.8
25,0.801,0.792,0.808,(6.2889)+(-0.0020)Arg+(0.0196)Tyr+(-0.1444)Met+(
0.0152)Leu+(-0.1416)Trp;0.774,0.798,0.767,0.746,0.753,0.821,0.813,0.7
83,(6.9384)+(-0.1176)His+(-0.0029)Ala+(-0.0027)Tyr+(-0.0184)Val+(0.04
46)Leu;0.774,0.806,0.762,0.736,0.785,0.827,0.736,0.771,(7.0639)+(-0.1
046)His+(-0.0663)Cit+(-0.0101)Tyr+(-0.0608)Met+(0.0562)Orn;0.774,0.80
5,0.755,0.726,0.769,0.814,0.762,0.767,(6.2890)+(-0.1196)His+(0.0050)P
ro+(-0.1163)Met+(0.0306)Orn+(0.0114)Leu;0.774,0.801,0.750,0.725,0.755
,0.782,0.784,0.762,(5.0508)+(-0.1349)His+(-0.0292)Cit+(-0.0033)Arg+(-
0.0011)Leu+(0.0792)Phe;0.774,0.799,0.772,0.754,0.763,0.824,0.804,0.78
6,(6.9961)+(-0.1088)His+(-0.0050)Ala+(0.0099)Pro+(-0.0948)Met+(0.0169
)Leu;0.774,0.812,0.767,0.764,0.782,0.830,0.699,0.769,(7.5043)+(-0.114
8)His+(0.0307)Thr+(-0.0111)Arg+(0.0025)Tyr+(-0.1419)Met;0.774,0.801,0
.761,0.747,0.755,0.833,0.757,0.773,(6.9275)+(-0.1135)His+(0.0156)Thr+
(-0.0061)Ala+(-0.0386)Cit+(0.0091)Pro;0.774,0.809,0.716,0.704,0.719,0
.789,0.688,0.725,(-1.9183)+(0.0468)Ser+(0.0006)Gln+(-0.0147)Arg+(-0.3
378)Met+(0.0669)Ile;0.774,0.795,0.729,0.717,0.683,0.815,0.795,0.752,(
2.9820)+(0.0063)Thr+(-0.0423)Cit+(-0.0255)Arg+(-0.0554)Val+(0.1610)Il
e;0.774,0.803,0.736,0.706,0.763,0.822,0.696,0.747,(5.9686)+(0.0038)Gl
y+(-0.1199)His+(-0.0701)Cit+(-0.0012)Val+(0.0519)Orn;0.774,0.802,0.74
7,0.727,0.757,0.802,0.744,0.757,(6.1925)+(0.0048)Gly+(-0.1195)His+(0.
0068)Pro+(-0.1232)Met+(0.0178)Leu;0.774,0.811,0.789,0.802,0.793,0.778
,0.751,0.781,(6.0111)+(-0.0112)Arg+(0.0061)Pro+(-0.0119)Tyr+(0.0075)L
eu+(-0.1468)Trp;0.774,0.808,0.812,0.819,0.813,0.805,0.798,0.809,(6.50
17)+(-0.0025)Ala+(-0.0004)Arg+(-0.0989)Met+(0.0181)Leu+(-0.1363)Trp;0
.774,0.806,0.763,0.732,0.789,0.831,0.743,0.774,(6.8762)+(-0.1061)His+
(-0.0685)Cit+(0.0035)Arg+(-0.0807)Met+(0.0545)Orn;0.774,0.794,0.730,0
.723,0.678,0.808,0.800,0.752,(2.8000)+(0.0077)Thr+(-0.0339)Arg+(-0.00

23)Pro+(-0.0583)Val+(0.1671)Ile;0.774,0.807,0.765,0.750,0.768,0.824,0.759,0.775,(6.9903)+(-0.1157)His+(-0.0026)Ala+(-0.0085)Arg+(-0.0128)Tyr+(0.0414)Orn;0.774,0.797,0.763,0.756,0.750,0.826,0.767,0.775,(6.8632)+(-0.0238)Asn+(0.0036)Gly+(-0.1083)His+(-0.0050)Ala+(0.0102)Pro;0.774,0.803,0.793,0.774,0.790,0.820,0.830,0.804,(1.7482)+(-0.0096)Ala+(-0.0763)Cit+(-0.2451)Met+(0.0608)Ile+(0.0713)Phe;0.774,0.808,0.811,0.818,0.817,0.795,0.789,0.805,(6.8257)+(-0.0241)Asn+(0.0007)Arg+(-0.0954)Met+(0.0153)Leu+(-0.1356)Trp;0.774,0.807,0.752,0.780,0.707,0.798,0.741,0.756,(-0.2966)+(0.0446)Ser+(-0.1586)Asn+(-0.0057)Ala+(-0.0522)Tyr+(0.0942)Phe;0.774,0.796,0.736,0.743,0.673,0.804,0.799,0.755,(3.5130)+(0.0009)Gln+(-0.0258)Arg+(-0.0348)Tyr+(-0.0528)Val+(0.1615)Ile;0.774,0.813,0.729,0.743,0.731,0.761,0.666,0.725,(-3.7761)+(0.0449)Ser+(-0.3789)Met+(0.0041)Orn+(-0.0046)Leu+(0.1099)Phe;0.774,0.798,0.754,0.736,0.747,0.817,0.773,0.768,(6.2095)+(0.0036)Gly+(-0.1301)His+(-0.0039)Ala+(0.0015)Lys+(0.0178)Leu;0.774,0.808,0.781,0.789,0.746,0.837,0.791,0.791,(1.7555)+(0.0061)Gln+(-0.0223)Arg+(-0.2442)Met+(0.1758)Ile+(-0.0865)Leu;0.774,0.804,0.725,0.
688,0.755,0.816,0.696,0.739,(5.5264)+(0.0045)Gly+(-0.1288)His+(-0.0683)Cit+(0.0466)Orn+(0.0084)Leu;0.774,0.804,0.765,0.770,0.686,0.829,0.869,0.789,(0.2590)+(-0.0128)Ala+(-0.0023)Orn+(0.1689)Ile+(-0.0943)Leu+(0.0481)Phe;0.774,0.804,0.749,0.727,0.763,0.816,0.730,0.759,(6.4689)+(-0.0233)Asn+(0.0031)Gly+(-0.1216)His+(-0.0088)Arg+(0.0361)Orn;0.774,0.803,0.764,0.764,0.748,0.846,0.740,0.775,(2.9202)+(0.0399)Ser+(-0.1228)Asn+(-0.0102)Ala+(-0.0796)Cit+(0.0147)Pro;0.774,0.802,0.746,0.714,0.757,0.803,0.763,0.759,(6.2054)+(-0.0244)Asn+(-0.1285)His+(0.0023)Pro+(0.0300)Orn+(0.0064)Leu;0.774,0.808,0.818,0.832,0.823,0.809,0.778,0.810,(7.1160)+(-0.0493)Asn+(0.0008)Gly+(-0.0035)Arg+(0.0043)Tyr+(-0.1321)Trp;0.774,0.808,0.716,0.697,0.718,0.801,0.697,0.729,(-1.3126)+(0.

0478)Ser+(-0.0101)Arg+(-0.3056)Met+(-0.0102)Lys+(0.0726)Ile;0.774,0.795,0.764,0.746,0.755,0.807,0.802,0.777,(7.3828)+(-0.0307)Asn+(-0.1110)His+(-0.0043)Tyr+(-0.0222)Val+(0.0474)Leu;0.774,0.803,0.733,0.703,0.750,0.807,0.725,0.746,(5.8188)+(0.0033)Gly+(-0.1351)His+(-0.0099)Arg+(0.0310)Orn+(0.0089)Leu;0.774,0.801,0.758,0.747,0.766,0.814,0.726,0.763,(7.4834)+(-0.0351)Asn+(-0.1217)His+(0.0219)Thr+(-0.0117)Arg+(-0.0005)Val;0.774,0.797,0.775,0.755,0.767,0.822,0.810,0.788,(7.2918)+(-0.1056)His+(-0.0015)Ala+(-0.0216)Val+(-0.0921)Met+(0.0531)Leu;0.774,0.807,0.742,0.733,0.685,0.835,0.818,0.768,(-1.2271)+(0.0448)Ser+(-0.1680)Asn+(-0.0110)Ala+(0.0425)Ile+(0.0465)Phe;0.774,0.801,0.713,0.740,0.652,0.744,0.749,0.721,(0.3556)+(-0.0004)Gln+(-0.0810)Tyr+(0.1609)Ile+(-0.0997)Leu+(0.0831)Phe;0.774,0.808,0.810,0.821,0.816,0.791,0.782,0.803,(6.7818)+(-0.0549)Asn+(-0.0070)Arg+(0.0059)Lys+(0.0072)Leu+(-0.1433)Trp;0.774,0.803,0.740,0.705,0.752,0.804,0.760,0.755,(5.9214)+(-0.1341)His+(0.0020)Pro+(0.0296)Orn+(-0.0025)Lys+(0.0081)Leu;0.774,0.798,0.768,0.746,0.755,0.821,0.813,0.784,(6.9400)+(-0.1177)His+(-0.0030)Ala+(-0.0011)Arg+(-0.0187)Val+(0.0448)Leu;0.774,0.801,0.758,0.754,0.757,0.824,0.723,0.765,(7.0668)+(0.0015)Gly+(-0.1243)His+(0.0195)Thr+(-0.0027)Ala+(-0.0136)Arg;0.774,0.795,0.757,0.733,0.751,0.802,0.802,0.772,(7.1610)+(-0.0380)Asn+(-0.1097)His+(0.0056)Pro+(-0.0248)Val+(0.0472)Leu;0.774,0.803,0.785,0.761,0.775,0.833,0.834,0.801,(3.8488)+(-0.0116)Ala+(-0.0767)Cit+(0.0104)Pro+(-0.1985)Met+(0.0649)Ile;0.774,0.798,0.742,0.735,0.742,0.800,0.722,0.750,(6.6512)+(0.0006)Gly+(-0.1279)His+(0.0165)Thr+(-0.0180)Tyr+(0.0014)Lys;0.774,0.804,0.764,0.758,0.737,0.819,0.797,0.778,(3.1764)+(-0.0162)Asn+(-0.2280)Met+(0.0117)Orn+(0.1628)Ile+(-0.0813)Leu;0.773,0.798,0.754,0.738,0.747,0.815,0.771,0.768,(6.3952)+(0.0035)Gly+(-0.1276)His+(-0.0036)Ala+(-0.0049)Tyr+(0.0188)Leu;0.773,0.804,0.757,0.756,0.761,0.809,0.711,0.759,(7.7603)+(-0.0333)Asn+(

-0.1172)His+(0.0243)Thr+(-0.0118)Arg+(-0.0171)Tyr;0.773,0.800,0.769,0.791,0.713,0.809,0.799,0.778,(2.9370)+(-0.0997)Asn+(0.0045)Gln+(-0.0456)Tyr+(0.1493)Ile+(-0.0804)Leu;0.773,0.797,0.765,0.745,0.756,0.809,0.805,0.779,(7.2979)+(-0.0339)Asn+(-0.1119)His+(0.0012)Arg+(-0.0230)Val+(0.0480)Leu;0.773,0.809,0.756,0.752,0.730,0.816,0.775,0.768,(2.6650)+(0.0112)Thr+(-0.2832)Met+(0.0038)Orn+(0.1642)Ile+(-0.0795)Leu;0.773,0.806,0.797,0.807,0.812,0.794,0.744,0.789,(5.9249)+(-0.0010)Gly+(-0.0164)Arg+(0.0239)Orn+(0.0015)Lys+(-0.1461)Trp;0.773,0.798,0.715,0.724,0.644,0.786,0.785,0.735,(2.3936)+(-0.0491)Tyr+(-0.0406)Val+(0.0162)Orn+(0.1786)Ile+(-0.0369)Leu;0.773,0.796,0.730,0.740,0.655,0.789,0.815,0.750,(3.3995)+(-0.0033)Gly+(-0.0461)Tyr+(-0.0399)Val+(0.1815)Ile+(-0.0367)Leu;0.773,0.802,0.767,0.770,0.690,0.829,0.874,0.791,(0.4220)+(-0.0010)Gly+(-0.0128)Ala+(0.1680)Ile+(-0.0942)Leu+(0.0472)Phe;0.773,0.803,0.749,0.734,0.762,0.804,0.724,0.756,(7.1940)+(-0.0358)Asn+(-0.1234)His+(0.0205)Thr+(-0.0120)Arg+(0.0040)Pro;0.773,0.802,0.749,0.721,0.758,0.805,0.761,0.761,(6.3188)+(-0.0273)Asn+(-0.1240)His+(0.0033)Pro+(0.0315)Orn+(0.0010)Lys;0.773,0.800,0.776,0.781,0.761,0.769,0.800,0.778,(1.6206)+(0.0102)Pro+(-0.0410)Val+(-0.3520)Met+(0.0532)Leu+(0.1050)Phe;0.773,0.802,0.751,0.764,0.708,0.794,0.778,0.761,(4.0185)+(-0.0807)Asn+(-0.0482)Tyr+(0.0191)Orn+(0.1476)Ile+(-0.0811)Leu;0.773,0.804,0.790,0.791,0.753,0.851,0.823,0.805,(2.3795)+(-0.1184)Asn+(0.0067)Gln+(-0.0848)Cit+(0.1524)Ile+(-0.0832)Leu;0.773,0.796,0.738,0.745,0.675,0.799,0.810,0.757,(4.1242)+(-0.0016)Gly+(-0.0233)Arg+(-0.0352)Tyr+(-0.0530)Val+(0.1627)Ile;0.773,0.806,0.751,0.725,0.772,0.820,0.726,0.761,(6.8850)+(-0.1105)His+(-0.0669)Cit+(-0.0217)Tyr+(0.0567)Orn+(-0.0005)Lys;0.773,0.801,0.763,0.747,0.762,0.822,0.766,0.774,(6.5938)+(0.0045)Gly+(-0.1203)His+(-0.0026)Ala+(-0.0847)Met+(0.0227)Leu;0.773,0.806,0.764,0.743,0.774,0.822,0.758,0.774,(6.4936)+(-0.0048)Asn+(-0.1185)His

+(-0.0892)Met+(0.0348)Orn+(0.0054)Lys;0.773,0.812,0.813,0.837,0.813,0.805,0.760,0.803,(4.7221)+(0.0047)Gln+(-0.0173)Arg+(-0.0073)Tyr+(0.0030)Lys+(-0.1481)Trp;0.773,0.805,0.760,0.763,0.776,0.851,0.658,0.762,(3.5678)+(0.0354)Ser+(-0.1551)Asn+(-0.0984)Cit+(-0.0128)Val+(0.0559)Orn;0.773,0.801,0.722,0.747,0.659,0.748,0.766,0.730,(0.4146)+(-0.0048)Thr+(-0.0771)Tyr+(0.1631)Ile+(-0.1005)Leu+(0.0821)Phe;0.773,0.812,0.809,0.827,0.809,0.797,0.768,0.800,(4.5648)+(0.0046)Gln+(-0.0158)Arg+(-0.0093)Tyr+(0.0090)Leu+(-0.1530)Trp;0.773,0.809,0.786,0.808,0.798,0.791,0.699,0.774,(6.2478)+(0.0159)Thr+(-0.0189)Arg+(-0.0109)Tyr+(0.0015)Lys+(-0.1489)Trp;0.773,0.797,0.720,0.707,0.675,0.809,0.783,0.744,(2.5122)+(0.0045)Thr+(-0.0381)Arg+(-0.0600)Val+(0.0240)Orn+(0.1630)Ile;0.773,0.796,0.719,0.727,0.649,0.785,0.794,0.739,(3.1671)+(-0.0011)Gln+(-0.0436)Tyr+(-0.0402)Val+(0.1816)Ile+(-0.0361)Leu;0.773,0.807,0.767,0.746,0.777,0.826,0.760,0.777,(6.7187)+(-0.0045)Asn+(-0.1141)His+(-0.0008)Val+(-0.0713)Met+(0.0381)Orn;0.773,0.804,0.749,0.716,0.761,0.807,0.766,0.763,(6.3125)+(-0.0219)Asn+(-0.1290)His+(0.0314)Orn+(-0.0008)Lys+(0.0081)Leu;0.773,0.808,0.776,0.793,0.791,0.779,0.701,0.766,(5.9598)+(0.0162)Thr+(-0.0186)Arg+(-0.0147)Tyr+(0.0098)Leu+(-0.1555)Trp;0.773,0.799,0.724,0.707,0.680,0.811,0.796,0.749,(3.1813)+(-0.0295)Arg+(-0.0568)Val+(0.0298)Orn+(-0.0105)Lys+(0.1639)Ile;0.773,0.797,0.731,0.705,0.744,0.797,0.725,0.743,(6.3496)+(-0.1410)His+(0.0183)Thr+(-0.0133)Arg+(0.0018)Pro+(0.0113)Leu;0.773,0.797,0.755,0.737,0.750,0.818,0.769,0.768,(6.4134)+(0.0038)Gly+(-0.1275)His+(-0.0037)Ala+(-0.0033)Arg+(0.0183)Leu;0.773,0.807,0.773,0.776,0.698,0.830,0.879,0.796,(0.7334)+(-0.0098)Thr+(-0.0119)Ala+(0.1730)Ile+(-0.0959)Leu+(0.0506)Phe;0.773,0.808,0.808,0.817,0.814,0.795,0.778,0.801,(6.7061)+(-0.0499)Asn+(0.0010)Gly+(-0.0041)Arg+(0.0104)Leu+(-0.1403)Trp;0.773,0.808,0.792,0.791,0.729,0.860,0.875,0.814,(3.9730)+(-0.0652)Asn+(-0.0098)Ala+(-0.0025)Ly

s+(0.1636)Ile+(-0.0808)Leu;0.773,0.800,0.755,0.722,0.782,0.824,0.737,0.766,(6.9113)+(-0.0249)Asn+(-0.1099)His+(-0.0664)Cit+(0.0532)Orn+(-0.0015)Lys;0.773,0.812,0.823,0.843,0.822,0.809,0.784,0.814,(4.9522)+(-0.0019)Gly+(0.0051)Gln+(-0.0158)Arg+(-0.0008)Val+(-0.1469)Trp;0.773,0.807,0.807,0.813,0.800,0.805,0.805,0.806,(5.8378)+(-0.0001)Gly+(-0.0048)Ala+(0.0000)Tyr+(0.0146)Leu+(-0.1472)Trp;0.773,0.796,0.730,0.728,0.678,0.805,0.786,0.749,(2.9796)+(0.0058)Thr+(-0.0338)Arg+(-0.0465)Val+(0.1898)Ile+(-0.0360)Leu;0.773,0.792,0.733,0.731,0.679,0.806,0.797,0.753,(3.1290)+(-0.0001)Gly+(-0.0295)Arg+(-0.0448)Val+(0.1890)Ile+(-0.0376)Leu;0.773,0.797,0.764,0.745,0.755,0.807,0.805,0.778,(7.2331)+(-0.0399)Asn+(-0.1129)His+(-0.0236)Val+(0.0042)Lys+(0.0467)Leu;0.773,0.802,0.751,0.742,0.762,0.818,0.700,0.756,(7.1791)+(-0.0473)Asn+(0.0033)Gly+(-0.1156)His+(0.0194)Thr+(-0.0369)Cit;0.773,0.808,0.754,0.755,0.724,0.812,0.769,0.765,(2.9319)+(0.0129)Thr+(-0.0160)Tyr+(-0.2601)Met+(0.1645)Ile+(-0.0778)Leu;0.773,0.807,0.807,0.813,0.801,0.805,0.805,0.806,(5.8500)+(-0.0001)Gly+(-0.0048)Ala+(-0.0002)Lys+(0.0147)Leu+(-0.1470)Trp;0.773,0.806,0.793,0.801,0.808,0.787,0.745,0.785,(5.8030)+(-0.0008)Gly+(-0.0156)Arg+(0.0225)Orn+(0.0048)Leu+(-0.1491)Trp;0.773,0.804,0.750,0.732,0.754,0.807,0.748,0.760,(6.4248)+(-0.1239)His+(-0.0202)Tyr+(-0.0009)Val+(0.0373)Orn+(0.0025)Lys;0.773,0.801,0.746,0.718,0.754,0.780,0.779,0.758,(4.9750)+(-0.1358)His+(-0.0293)Cit+(-0.0037)Arg+(0.0019)Pro+(0.0757)Phe;0.773,0.795,0.733,0.737,0.672,0.799,0.799,0.752,(3.8366)+(-0.0246)Arg+(0.0009)Pro+(-0.0348)Tyr+(-0.0530)Val+(0.1615)Ile;0.773,0.803,0.755,0.766,0.733,0.832,0.719,0.762,(1.4717)+(0.0433)Ser+(-0.0769)Asn+(-0.0066)Ala+(0.0150)Pro+(-0.1921)Met;0.773,0.810,0.784,0.794,0.803,0.786,0.715,0.774,(5.8129)+(0.0150)Thr+(-0.0188)Arg+(-0.0018)Lys+(0.0091)Leu+(-0.1591)Trp;0.773,0.796,0.760,0.742,0.745,0.813,0.800,0.775,(6.8102)+(-0.1173)His+(-0.0054)Ala+(0.0089)Pro+(-0.01

35)Tyr+(0.0143)Leu;0.773,0.792,0.723,0.715,0.679,0.803,0.780,0.744,(2.7958)+(-0.0354)Arg+(-0.0471)Val+(0.0245)Orn+(0.1880)Ile+(-0.0372)Leu;0.773,0.809,0.822,0.831,0.832,0.812,0.785,0.815,(6.7153)+(-0.0026)Arg+(0.0217)Tyr+(0.0014)Val+(-0.1219)Met+(-0.1347)Trp;0.773,0.797,0.745,0.724,0.740,0.807,0.765,0.759,(6.3607)+(0.0032)Gly+(-0.1248)His+(-0.0042)Arg+(-0.0189)Val+(0.0431)Leu;0.773,0.800,0.770,0.748,0.766,0.814,0.808,0.784,(7.0454)+(-0.1078)His+(0.0053)Arg+(-0.0230)Val+(-0.1109)Met+(0.0548)Leu;0.773,0.796,0.737,0.719,0.688,0.823,0.824,0.764,(3.2755)+(0.0009)Gln+(-0.0640)Cit+(-0.0489)Val+(-0.0154)Lys+(0.1582)Ile;0.773,0.801,0.721,0.708,0.655,0.795,0.837,0.749,(1.4011)+(-0.0449)Val+(-0.0161)Lys+(0.1761)Ile+(-0.0322)Leu+(0.0385)Phe;0.773,0.798,0.738,0.749,0.701,0.805,0.740,0.749,(3.3081)+(0.0009)Gly+(-0.0778)Cit+(-0.0492)Tyr+(0.1639)Ile+(-0.0846)Leu;0.773,0.806,0.765,0.745,0.773,0.824,0.758,0.775,(6.7788)+(-0.0052)Asn+(-0.1144)His+(-0.0074)Tyr+(-0.0608)Met+(0.0388)Orn;0.773,0.802,0.750,0.743,0.759,0.813,0.704,0.755,(7.2265)+(-0.0376)Asn+(0.0023)Gly+(-0.1226)His+(0.0209)Thr+(-0.0121)Arg;0.773,0.796,0.737,0.721,0.690,0.822,0.813,0.761,(3.5301)+(-0.0650)Cit+(-0.0400)Val+(-0.0118)Lys+(0.1799)Ile+(-0.0312)Leu;0.773,0.811,0.816,0.831,0.819,0.795,0.782,0.807,(4.6368)+(-0.0016)Gly+(0.0047)Gln+(-0.0167)Arg+(0.0076)Leu+(-0.1561)Trp;0.773,0.806,0.820,0.834,0.824,0.810,0.784,0.813,(7.2528)+(-0.0479)Asn+(-0.0031)Arg+(0.0043)Tyr+(-0.0005)Val+(-0.1314)Trp;0.773,0.802,0.762,0.765,0.685,0.826,0.865,0.786,(0.2435)+(-0.0133)Ala+(0.0019)Pro+(0.1656)Ile+(-0.0935)Leu+(0.0462)Phe;0.773,0.803,0.745,0.725,0.760,0.814,0.722,0.755,(6.3032)+(0.0025)Gly+(-0.1245)His+(-0.0109)Arg+(-0.0017)Val+(0.0370)Orn;0.773,0.804,0.781,0.802,0.790,0.759,0.719,0.768,(1.68
55)+(-0.0835)Asn+(0.0324)Thr+(-0.0190)Val+(-0.2974)Met+(0.1282)Phe;0.773,0.796,0.760,0.737,0.747,0.817,0.809,0.777,(6.5003)+(-0.1226)His+(

-0.0060)Ala+(0.0080)Pro+(0.0017)Lys+(0.0128)Leu;0.772,0.811,0.731,0.7
46,0.729,0.767,0.669,0.728,(-3.0855)+(0.0459)Ser+(-0.0165)Tyr+(-0.329
1)Met+(-0.0091)Lys+(0.1171)Phe;0.772,0.811,0.820,0.839,0.820,0.803,0.
780,0.810,(4.8228)+(-0.0019)Gly+(0.0049)Gln+(-0.0175)Arg+(0.0023)Lys+
(-0.1510)Trp;0.772,0.806,0.757,0.735,0.771,0.814,0.749,0.767,(6.5940)
+(-0.1123)His+(-0.0054)Arg+(0.0063)Pro+(-0.0953)Met+(0.0351)Orn;0.772
,0.805,0.751,0.725,0.771,0.819,0.727,0.761,(6.8631)+(-0.1110)His+(-0.
0664)Cit+(-0.0001)Arg+(-0.0221)Tyr+(0.0564)Orn;0.772,0.797,0.731,0.71
1,0.686,0.821,0.811,0.757,(3.3571)+(0.0017)Gly+(-0.0650)Cit+(-0.0489)
Val+(-0.0150)Lys+(0.1590)Ile;0.772,0.804,0.748,0.762,0.731,0.794,0.71
8,0.751,(0.0869)+(0.0440)Ser+(-0.2074)Asn+(-0.0232)Val+(0.0252)Orn+(0
.0955)Phe;0.772,0.797,0.738,0.722,0.690,0.820,0.817,0.763,(3.7779)+(-
0.0499)Cit+(-0.0121)Arg+(-0.0511)Val+(-0.0105)Lys+(0.1617)Ile;0.772,0
.799,0.770,0.749,0.765,0.813,0.803,0.782,(6.9580)+(-0.1103)His+(-0.02
37)Val+(-0.1267)Met+(0.0081)Lys+(0.0526)Leu;0.772,0.795,0.683,0.648,0
.626,0.791,0.813,0.720,(1.2854)+(0.0359)Ser+(-0.0077)Gly+(-0.0054)Gln
+(-0.0563)Val+(0.1577)Ile;0.772,0.813,0.763,0.766,0.738,0.838,0.754,0
.774,(2.3992)+(0.0462)Ser+(-0.1086)Asn+(-0.0437)Val+(-0.1894)Met+(0.0
793)Leu;0.772,0.801,0.792,0.787,0.768,0.808,0.844,0.802,(-1.0854)+(0.
0041)Gln+(-0.0082)Ala+(-0.3186)Met+(0.0540)Ile+(0.0689)Phe;0.772,0.79
9,0.706,0.703,0.642,0.783,0.792,0.730,(3.4000)+(-0.0031)Gln+(-0.0466)
Tyr+(-0.0529)Val+(0.0232)Orn+(0.1548)Ile;0.772,0.800,0.751,0.716,0.77
7,0.819,0.739,0.763,(6.6904)+(-0.0280)Asn+(-0.1120)His+(-0.0643)Cit+(
0.0026)Pro+(0.0500)Orn;0.772,0.809,0.757,0.754,0.731,0.818,0.777,0.77
0,(2.7164)+(0.0121)Thr+(-0.0000)Pro+(-0.2842)Met+(0.1648)Ile+(-0.0791
)Leu;0.772,0.806,0.756,0.753,0.726,0.810,0.785,0.769,(3.0923)+(-0.016
0)Tyr+(-0.2187)Met+(0.0121)Orn+(0.1652)Ile+(-0.0813)Leu;0.772,0.804,0
.728,0.695,0.758,0.815,0.692,0.740,(5.6784)+(0.0042)Gly+(-0.1233)His+

(-0.0694)Cit+(0.0029)Pro+(0.0486)Orn;0.772,0.808,0.757,0.740,0.771,0.825,0.725,0.765,(6.5358)+(0.0028)Gly+(-0.1164)His+(-0.0070)Arg+(-0.0709)Met+(0.0382)Orn;0.772,0.805,0.742,0.717,0.749,0.802,0.751,0.755,(6.3215)+(-0.1302)His+(-0.0237)Tyr+(0.0345)Orn+(0.0001)Lys+(0.0107)Leu;0.772,0.806,0.818,0.834,0.819,0.815,0.778,0.811,(6.9036)+(-0.0016)Ala+(-0.0013)Arg+(0.0030)Val+(-0.0795)Met+(-0.1298)Trp;0.772,0.804,0.711,0.708,0.688,0.815,0.690,0.725,(-0.0284)+(0.0335)Ser+(-0.0376)Arg+(-0.0102)Lys+(0.1659)Ile+(-0.0896)Leu;0.772,0.796,0.692,0.660,0.659,0.816,0.755,0.723,(0.0163)+(0.0162)Ser+(-0.0929)Cit+(-0.0519)Val+(0.0306)Orn+(0.1415)Ile;0.772,0.799,0.745,0.754,0.705,0.810,0.756,0.756,(3.4978)+(-0.0759)Cit+(-0.0017)Pro+(-0.0480)Tyr+(0.1662)Ile+(-0.0851)Leu;0.772,0.796,0.770,0.749,0.766,0.811,0.801,0.782,(7.2828)+(-0.0029)Asn+(-0.1058)His+(-0.0227)Val+(-0.0986)Met+(0.0535)Leu;0.772,0.808,0.765,0.744,0.774,0.824,0.756,0.775,(6.4637)+(-0.1178)His+(-0.0014)Val+(-0.0913)Met+(0.0357)Orn+(0.0057)Lys;0.772,0.798,0.724,0.726,0.652,0.788,0.822,0.747,(3.1592)+(-0.0050)Gly+(-0.0523)Tyr+(-0.0526)Val+(0.0229)Orn+(0.1519)Ile;0.772,0.795,0.763,0.741,0.751,0.819,0.806,0.779,(6.7385)+(-0.1194)His+(-0.0058)Ala+(-0.0032)Arg+(0.0082)Pro+(0.0133)Leu;0.772,0.809,0.775,0.766,0.757,0.837,0.791,0.788,(4.0968)+(-0.0655)Cit+(0.0003)Pro+(-0.2071)Met+(0.1697)Ile+(-0.0805)Leu;0.772,0.800,0.742,0.715,0.758,0.800,0.740,0.753,(6.8864)+(-0.0425)Asn+(-0.1293)His+(0.0205)Thr+(-0.0334)Cit+(0.0135)Leu;0.772,0.805,0.766,0.782,0.733,0.823,0.750,0.772,(-0.4213)+(0.0454)Ser+(-0.1538)Asn+(-0.0076)Ala+(-0.0175)Arg+(0.0726)Phe;0.772,0.795,0.755,0.744,0.740,0.820,0.767,0.768,(6.2033)+(0.0029)Gly+(-0.1194)His+(-0.0054)Ala+(0.0096)Pro+(0.0045)Lys;0.772,0.806,0.802,0.809,0.811,0.791,0.772,0.796,(6.2993)+(0.0009)Gly+(-0.0013)Arg+(-0.1173)Met+(0.0162)Leu+(-0.1376)Trp;0.772,0.798,0.733,0.719,0.746,0.800,0.695,0.740,(6.4655)+(0.0021)Gly+(-0.1310)His+(0.0167)Thr

+(-0.0150)Arg+(0.0041)Pro;0.772,0.804,0.806,0.796,0.786,0.848,0.843,0.818,(1.4413)+(0.0064)Gln+(-0.0097)Ala+(-0.0894)Cit+(-0.2263)Met+(0.0738)Ile;0.772,0.795,0.756,0.735,0.757,0.828,0.754,0.769,(6.5204)+(0.0050)Gly+(-0.1199)His+(-0.0045)Ala+(-0.0398)Cit+(0.0207)Leu;0.772,0.805,0.758,0.741,0.749,0.839,0.761,0.773,(4.0143)+(-0.0914)Asn+(-0.1004)Cit+(0.0401)Orn+(0.1419)Ile+(-0.0835)Leu;0.772,0.808,0.718,0.697,0.751,0.786,0.656,0.722,(-0.3064)+(0.0445)Ser+(-0.1888)Asn+(-0.1039)Cit+(0.0333)Orn+(0.0531)Phe;0.772,0.809,0.714,0.702,0.718,0.787,0.685,0.723,(-1.7504)+(0.0474)Ser+(-0.0141)Arg+(-0.0013)Tyr+(-0.3332)Met+(0.0672)Ile;0.772,0.809,0.717,0.726,0.653,0.788,0.771,0.735,(0.7597)+(0.0327)Ser+(-0.0104)Gly+(-0.0624)Tyr+(0.1537)Ile+(-0.0817)Leu;0.772,0.807,0.757,0.730,0.768,0.814,0.764,0.769,(6.5278)+(-0.1223)His+(-0.0088)Tyr+(-0.0865)Met+(0.0343)Orn+(0.0138)Leu;0.772,0.793,0.736,0.735,0.681,0.808,0.803,0.757,(3.1766)+(-0.0284)Arg+(-0.0030)Pro+(-0.0440)Val+(0.1936)Ile+(-0.0392)Leu;0.772,0.811,0.791,0.809,0.795,0.780,0.742,0.781,(6.0521)+(-0.0141)Arg+(0.0069)Pro+(-0.0124)Tyr+(0.0047)Lys+(-0.1449)Trp;0.771,0.794,0.746,0.721,0.741,0.798,0.785,0.761,(6.6475)+(-0.1206)His+(-0.0047)Arg+(0.0051)Pro+(-0.0215)Val+(0.0426)Leu;0.771,0.806,0.759,0.730,0.771,0.819,0.769,0.772,(6.3374)+(-0.1244)His+(-0.1075)Met+(0.0316)Orn+(0.0031)Lys+(0.0127)Leu;0.771,0.793,0.754,0.735,0.743,0.801,0.791,0.768,(6.7603)+(-0.1220)His+(-0.0100)Tyr+(-0.0189)Val+(0.0021)Lys+(0.0422)Leu;0.771,0.801,0.788,0.806,0.789,0.839,0.698,0.783,(1.3863)+(0.0386)Ser+(-0.1014)Asn+(0.0056)Gln+(-0.0726)Cit+(-0.1688)Met;0.771,0.794,0.725,0.710,0.678,0.809,0.800,0.750,(2.8518)+(-0.0016)Gly+(-0.0346)Arg+(-0.0594)Val+(0.0270)Orn+(0.1615)Ile;0.771,0.796,0.713,0.697,0.680,0.819,0.746,0.736,(-0.4505)+(0.0344)Ser+(-0.0219)Thr+(-0.0786)Cit+(0.1721)Ile+(-0.0921)Leu;0.771,0.796,0.719,0.729,0.647,0.787,0.792,0.739,(2.7160)+(-0.0001)Thr+(-0.0450)Tyr+(-0.0395)Val+(0.1811)

Ile+(-0.0375)Leu;0.771,0.791,0.735,0.724,0.686,0.815,0.807,0.758,(2.9259)+(0.0006)Gln+(-0.0437)Cit+(-0.0218)Arg+(-0.0540)Val+(0.1588)Ile;0.771,0.804,0.724,0.747,0.669,0.752,0.761,0.732,(0.9459)+(-0.0754)Tyr+(-0.0098)Lys+(0.1591)Ile+(-0.0942)Leu+(0.0848)Phe;0.771,0.804,0.765,0.765,0.732,0.815,0.798,0.778,(3.5933)+(-0.0136)Asn+(-0.0144)Tyr+(-0.1992)Met+(0.1656)Ile+(-0.0800)Leu;0.771,0.800,0.773,0.762,0.760,0.821,0.791,0.784,(6.8026)+(-0.1074)His+(-0.0047)Ala+(0.0119)Pro+(-0.1059)Met+(0.0103)Lys;0.771,0.807,0.807,0.813,0.801,0.806,0.804,0.806,(5.8315)+(-0.0048)Ala+(0.0002)Tyr+(-0.0003)Lys+(0.0148)Leu+(-0.1470)Trp;0.771,0.794,0.682,0.651,0.642,0.803,0.758,0.713,(1.4563)+(0.0271)Ser+(-0.0047)Gln+(-0.0605)Cit+(-0.0522)Val+(0.1550)Ile;0.771,0.791,0.731,0.720,0.684,0.813,0.799,0.754,(2.9859)+(0.0010)Gly+(-0.0448)Cit+(-0.0211)Arg+(-0.0539)Val+(0.1593)Ile;0.771,0.800,0.757,0.743,0.768,0.813,0.733,0.764,(7.3858)+(-0.0434)Asn+(-0.1173)His+(0.0200)Thr+(-0.0320)Cit+(0.0010)Lys;0.771,0.799,0.753,0.734,0.766,0.809,0.734,0.761,(7.2024)+(-0.0437)Asn+(-0.1173)His+(0.0190)Thr+(-0.0323)Cit+(0.0040)Pro;0.771,0.805,0.804,0.820,0.805,0.785,0.769,0.795,(6.0584)+(-0.0010)Gly+(-0.0071)Tyr+(-0.0007)Val+(0.0023)Lys+(-0.1425)Trp;0.771,0.801,0.756,0.746,0.784,0.827,0.674,0.758,(1.3452)+(0.0427)Ser+(-0.0058)Gly+(-0.0926)Cit+(-0.2543)Met+(0.0408)Orn;0.771,0.807,0.815,0.831,0.819,0.799,0.777,0.807,(7.0297)+(-0.0564)Asn+(-0.0077)Arg+(-0.0000)Tyr+(0.0082)Lys+(-0.1384)Trp;0.771,0.795,0.719,0.703,0.675,0.807,0.787,0.743,(2.9445)+(-0.0010)Gln+(-0.0338)Arg+(-0.0593)Val+(0.0271)Orn+(0.1623)Ile;0.771,0.799,0.745,0.743,0.752,0.806,0.693,0.748,(7.1892)+(0.0009)Gly+(-0.1242)His+(0.0213)Thr+(-0.0141)Arg+(-0.0164)Tyr;0.771,0.807,0.764,0.745,0.772,0.824,0.756,0.774,(6.7168)+(-0.1150)His+(-0.0066)Tyr+(-0.0003)Val+(-0.0657)Met+(0.0388)Orn;0.771,0.806,0.747,0.731,0.759,0.811,0.717,0.755,(6.5679)+(0.0021)Gly+(-0.1216)His+(-0.0098)Arg+(-0.0158)Tyr+(0.

0394)Orn;0.771,0.804,0.734,0.705,0.764,0.819,0.691,0.745,(5.9738)+(0.0040)Gly+(-0.1209)His+(-0.0681)Cit+(-0.0027)Arg+(0.0509)Orn;0.771,0.802,0.733,0.697,0.761,0.814,0.708,0.745,(6.0131)+(-0.1283)His+(0.0099)Thr+(-0.0632)Cit+(0.0015)Pro+(0.0444)Orn;0.771,0.802,0.730,0.714,0.664,0.809,0.850,0.759,(1.7067)+(-0.0053)Pro+(-0.0541)Val+(-0.0178)Lys+(0.1613)Ile+(0.0363)Phe;0.771,0.801,0.754,0.721,0.779,0.823,0.740,0.766,(6.8168)+(-0.0279)Asn+(-0.1113)His+(-0.0664)Cit+(0.0013)Arg+(0.0521)Orn;0.771,0.801,0.758,0.743,0.768,0.815,0.733,0.765,(7.4160)+(-0.0419)Asn+(-0.1172)His+(0.0203)Thr+(-0.0323)Cit+(0.0003)Val;0.771,0.794,0.767,0.743,0.760,0.825,0.801,0.782,(6.9839)+(-0.1116)His+(-0.0067)Ala+(-0.0360)Cit+(0.0092)Pro+(0.0149)Leu;0.771,0.804,0.813,0.827,0.808,0.812,0.788,0.809,(6.0378)+(-0.0038)Ala+(0.0011)Tyr+(0.0012)Val+(0.0025)Lys+(-0.1410)Trp;0.771,0.804,0.816,0.829,0.812,0.816,0.792,0.812,(6.2522)+(-0.0004)Gly+(-0.0037)Ala+(0.0025)Tyr+(0.0017)Val+(-0.1391)Trp;0.771,0.803,0.734,0.708,0.751,0.808,0.717,0.746,(5.9492)+(0.0030)Gly+(-0.1285)His+(-0.0115)Arg+(0.0037)Pro+(0.0326)Orn;0.771,0.807,0.794,0.809,0.804,0.792,0.737,0.786,(6.2068)+(-0.0013)Gly+(-0.0142)Arg+(-0.0106)Tyr+(0.0269)Orn+(-0.1393)Trp;0.771,0.807,0.761,0.742,0.769,0.819,0.754,0.771,(6.5167)+(-0.1188)His+(-0.0082)Tyr+(-0.0809)Met+(0.0360)Orn+(0.0056)Lys;0.771,0.799,0.762,0.739,0.758,0.806,0.798,0.775,(7.0084)+(-0.1014)His+(0.0084)Pro+(-0.0251)Val+(-0.1315)Met+(0.0535)Leu;0.771,0.806,0.708,0.677,0.737,0.800,0.666,0.720,(0.6813)+(0.0411)Ser+(-0.1683)Asn+(-0.1011)Cit+(0.0318)Orn+(0.0270)Ile;0.771,0.799,0.759,0.759,0.756,0.821,0.720,0.764,(7.4291)+(-0.1207)His+(0.0220)Thr+(-0.0021)Ala+(-0.0133)Arg+(-0.0132)Tyr;0.771,0.809,0.757,0.753,0.732,0.819,0.777,0.770,(2.8402)+(0.0127)Thr+(-0.2802)Met+(-0.0022)Lys+(0.1641)Ile+(-0.0778)Leu;0.771,0.806,0.804,0.813,0.812,0.787,0.773,0.796,(6.2978)+(-0.0048)Arg+(-0.1263)Met+(0.0069)Lys+(0.0130)Leu+(-0.1416)Trp;0.771

,0.792,0.735,0.736,0.679,0.808,0.796,0.755,(2.7265)+(0.0011)Gln+(-0.0315)Arg+(-0.0442)Val+(0.1892)Ile+(-0.0392)Leu;0.771,0.805,0.814,0.830,0.820,0.806,0.763,0.805,(6.7940)+(0.0004)Gly+(-0.0018)Arg+(0.0022)Val+(-0.0909)Met+(-0.1304)Trp;0.771,0.797,0.740,0.729,0.752,0.807,0.698,0.746,(6.6919)+(0.0019)Gly+(-0.1317)His+(0.0181)Thr+(-0.0143)Arg+(0.0010)Val;0.771,0.804,0.719,0.700,0.657,0.800,0.841,0.749,(1.6234)+(0.0027)Thr+(-0.0542)Val+(-0.0195)Lys+(0.1553)Ile+(0.0326)Phe;0.771,0.800,0.744,0.711,0.769,0.818,0.728,0.757,(6.3555)+(-0.1156)His+(-0.0642)Cit+(0.0034)Pro+(-0.0037)Val+(0.0512)Orn;0.771,0.797,0.708,0.675,0.680,0.808,0.782,0.736,(2.8728)+(-0.0031)Gln+(-0.0885)Cit+(-0.0540)Val+(0.0416)Orn+(0.1478)Ile;0.771,0.798,0.759,0.752,0.758,0.821,0.738,0.767,(7.0890)+(-0.1263)His+(0.0192)Thr+(-0.0030)Ala+(-0.0148)Arg+(0.0036)Lys;0.771,0.793,0.736,0.730,0.688,0.812,0.794,0.756,(3.3443)+(-0.0468)Cit+(-0.0201)Arg+(-0.0414)Val+(0.1871)Ile+(-0.0393)Leu;0.771,0.805,0.738,0.778,0.713,0.751,0.680,0.730,(-0.2436)+(0.0448)Ser+(-0.1668)Asn+(-0.0601)Tyr+(-0.0156)Leu+(0.1064)Phe;0.771,0.792,0.771,0.760,0.756,0.823,0.797,0.784,(7.1827)+(-0.0152)Asn+(-0.1081)His+(-0.0052)Ala+(0.0098)Pro+(0.0008)Val;0.771,0.808,0.720,0.738,0.718,0.748,0.659,0.716,(-3.5521)+(0.0454)Ser+(-0.0003)Gln+(-0.0179)Tyr+(-0.3569)Met+(0.1126)Phe;0.771,0.801,0.729,0.688,0.759,0.808,0.714,0.743,(5.8281)+(-0.1344)His+(0.0109)Thr+(-0.0613)Cit+(0.0414)Orn+(0.0073)Leu;0.771,0.805,0.808,0.816,0.806,0.805,0.794,0.805,(6.0967)+(-0.0044)Ala+(-0.0091)Arg+(0.0025)Lys+(0.0137)Leu+(-0.1464)Trp;0.771,0.801,0.761,0.740,0.772,0.819,0.753,0.771,(6.9445)+(-0.0216)Asn+(-0.1149)His+(-0.0081)Arg+(-0.0032)Val+(0.0396)Orn;0.771,0.798,0.763,0.757,0.762,0.829,0.731,0.770,(7.2945)+(-0.1151)His+(0.0196)Thr+(-0.0028)Ala+(-0.0340)Cit+(-0.0117)Tyr;0.771,0.795,0.699,0.681,0.655,0.810,0.760,0.727,(0.2375)+(0.0209)Ser+(-0.0751)Cit+(-0.0380)Val+

(0.1816)Ile+(-0.0431)Leu;0.771,0.792,0.739,0.717,0.740,0.805,0.750,0.753,(6.3199)+(0.0039)Gly+(-0.1221)His+(-0.0281)Cit+(-0.0170)Val+(0.0412)Leu;0.771,0.799,0.743,0.732,0.752,0.803,0.707,0.749,(6.9716)+(-0.1240)His+(0.0192)Thr+(-0.0327)Cit+(-0.0213)Tyr+(0.0034)Val;0.771,0.807,0.810,0.819,0.817,0.792,0.785,0.803,(6.8474)+(-0.0477)Asn+(-0.0036)Arg+(-0.0012)Tyr+(0.0103)Leu+(-0.1402)Trp;0.771,0.801,0.749,0.717,0.764,0.810,0.758,0.762,(6.4763)+(-0.0176)Asn+(-0.1272)His+(-0.0068)Arg+(0.0331)Orn+(0.0071)Leu;0.771,0.801,0.725,0.707,0.662,0.800,0.853,0.755,(1.9077)+(-0.0014)Gly+(-0.0540)Val+(-0.0179)Lys+(0.1552)Ile+(0.0324)Phe;0.771,0.804,0.759,0.731,0.772,0.817,0.765,0.771,(6.5178)+(-0.1218)His+(-0.0026)Arg+(-0.0961)Met+(0.0336)Orn+(0.0130)Leu;0.771,0.801,0.752,0.743,0.755,0.805,0.734,0.759,(6.1269)+(0.0040)Gly+(-0.1159)His+(0.0088)Pro+(-0.1304)Met+(0.0100)Lys;0.770,0.795,0.760,0.753,0.751,0.833,0.747,0.771,(6.7982)+(0.0043)Gly+(-0.1038)His+(-0.0059)Ala+(-0.0405)Cit+(0.0113)Pro;0.770,0.801,0.739,0.716,0.754,0.808,0.719,0.749,(6.0516)+(0.0029)Gly+(-0.1300)His+(-0.0123)Arg+(0.0339)Orn+(0.0029)Lys;0.770,0.800,0.744,0.739,0.751,0.803,0.700,0.749,(7.2168)+(-0.1268)His+(0.0219)Thr+(-0.0137)Arg+(-0.0202)Tyr+(0.0023)Val;0.770,0.812,0.747,0.744,0.729,0.852,0.720,0.761,(0.5883)+(0.0360)Ser+(-0.0433)Val+(-0.3020)Met+(0.0259)Orn+(0.0745)Leu;0.770,0.805,0.809,0.817,0.806,0.805,0.797,0.806,(6.1325)+(0.0003)Gly+(-0.0044)Ala+(-0.0074)Arg+(0.0150)Leu+(-0.1448)Trp;0.770,0.798,0.724,0.718,0.696,0.814,0.734,0.741,(0.0223)+(0.0390)Ser+(-0.0067)Gly+(-0.0425)Arg+(0.1692)Ile+(-0.0980)Leu;0.770,0.803,0.743,0.725,0.753,0.801,0.728,0.752,(6.6583)+(-0.1186)His+(-0.0094)Arg+(0.0055)Pro+(-0.0246)Tyr+(0.0379)Orn;0.770,0.801,0.770,0.746,0.794,0.778,0.775,0.773,(1.7517)+(-0.0660)Cit+(-0.2834)Met+(-0.0118)Lys+(0.0509)Ile+(0.0762)Phe;0.770,0.798,0.783,0.798,0.785,0.846,0.694,0.781,(3.0452)+(0.0411)Ser+(-0.0785)Asn+(-0.0030)Ala+(-0.0641)Cit+(

-0.1281)Met;0.770,0.797,0.741,0.727,0.753,0.802,0.711,0.748,(6.7848)+(-0.1287)His+(0.0179)Thr+(-0.0145)Arg+(0.0042)Pro+(-0.0011)Val;0.770,0.795,0.759,0.752,0.743,0.822,0.762,0.770,(6.6641)+(0.0028)Gly+(-0.1113)His+(-0.0048)Ala+(0.0105)Pro+(-0.0080)Tyr;0.770,0.794,0.725,0.713,0.678,0.811,0.793,0.749,(2.6473)+(-0.0344)Arg+(-0.0036)Pro+(-0.0591)Val+(0.0277)Orn+(0.1651)Ile;0.770,0.803,0.757,0.752,0.729,0.815,0.788,0.771,(2.7522)+(0.0010)Gly+(-0.2481)Met+(0.0093)Orn+(0.1659)Ile+(-0.0817)Leu;0.770,0.806,0.790,0.807,0.798,0.791,0.725,0.780,(5.9212)+(-0.0160)Arg+(-0.0107)Tyr+(0.0252)Orn+(0.0023)Lys+(-0.1420)Trp;0.770,0.801,0.747,0.723,0.760,0.808,0.741,0.758,(6.4505)+(-0.1205)His+(-0.0108)Arg+(0.0044)Pro+(-0.0040)Val+(0.0363)Orn;0.770,0.804,0.816,0.830,0.810,0.813,0.792,0.811,(6.1627)+(-0.0005)Gly+(-0.0036)Ala+(0.0012)Tyr+(0.0030)Lys+(-0.1398)Trp;0.770,0.803,0.814,0.828,0.809,0.811,0.791,0.810,(6.1379)+(-0.0005)Gly+(-0.0037)Ala+(0.0012)Val+(0.0027)Lys+(-0.1407)Trp;0.770,0.802,0.761,0.758,0.732,0.818,0.788,0.774,(3.1012)+(-0.0152)Asn+(0.0018)Gly+(-0.2282)Met+(0.1657)Ile+(-0.0802)Leu;0.770,0.804,0.716,0.695,0.656,0.801,0.834,0.746,(1.5504)+(-0.0543)Val+(0.0169)Orn+(-0.0204)Lys+(0.1531)Ile+(0.0291)Phe;0.770,0.796,0.727,0.697,0.705,0.843,0.769,0.753,(-0.5246)+(0.0254)Ser+(-0.0162)Ala+(-0.1288)Cit+(0.0334)Orn+(0.0560)Ile;0.770,0.812,0.822,0.843,0.819,0.806,0.781,0.812,(5.0055)+(-0.0021)Gly+(0.0053)Gln+(-0.0149)Arg+(-0.0074)Tyr+(-0.1451)Trp;0.770,0.799,0.713,0.739,0.652,0.745,0.748,0.721,(0.1495)+(-0.0817)Tyr+(0.0018)Orn+(0.1600)Ile+(-0.0996)Leu+(0.0821)Phe;0.770,0.800,0.760,0.770,0.732,0.790,0.772,0.766,(0.4060)+(0.0524)Ser+(-0.1946)Asn+(-0.0050)Gly+(-0.0201)Val+(0.0956)Phe;0.770,0.803,0.767,0.763,0.737,0.818,0.803,0.780,(3.3112)+(-0.0106)Asn+(0.0004)Pro+(-0.2285)Met+(0.1653)Ile+(-0.0806)Leu;0.770,0.800,0.735,0.702,0.766,0.815,0.699,0.745,(6.3309)+(-0.1270)His+(0.0125)Thr+(-0.0574)Cit+(-0.0079)Arg+(0.0445)Orn;0.

770,0.798,0.756,0.771,0.706,0.798,0.789,0.766,(4.0995)+(-0.0737)Asn+(0.0005)Gly+(-0.0440)Tyr+(0.1520)Ile+(-0.0807)Leu;0.770,0.798,0.750,0.712,0.777,0.819,0.745,0.763,(6.6314)+(-0.0257)Asn+(-0.1162)His+(-0.0634)Cit+(0.0492)Orn+(0.0056)Leu;0.770,0.796,0.722,0.694,0.686,0.817,0.800,0.749,(2.0075)+(-0.0075)Thr+(-0.0907)Cit+(-0.0523)Val+(0.0407)Orn+(0.1432)Ile;0.770,0.808,0.775,0.766,0.757,0.837,0.789,0.787,(3.9924)+(-0.0658)Cit+(-0.2114)Met+(0.0017)Lys+(0.1706)Ile+(-0.0815)Leu;0.770,0.798,0.753,0.742,0.763,0.807,0.723,0.759,(7.2937)+(-0.0376)Asn+(-0.1251)His+(0.0209)Thr+(-0.0133)Arg+(0.0037)Lys;0.770,0.809,0.775,0.766,0.757,0.838,0.791,0.788,(4.1058)+(-0.0653)Cit+(-0.0002)Arg+(-0.2061)Met+(0.1700)Ile+(-0.0805)Leu;0.770,0.803,0.744,0.722,0.754,0.802,0.743,0.755,(6.6038)+(-0.1267)His+(-0.0072)Arg+(-0.0226)Tyr+(0.0369)Orn+(0.0099)Leu;0.770,0.790,0.733,0.727,0.677,0.808,0.814,0.757,(2.9320)+(-0.0006)Gly+(0.0003)Gln+(-0.0294)Arg+(-0.0569)Val+(0.1621)Ile;0.770,0.805,0.786,0.800,0.796,0.783,0.730,0.777,(5.8289)+(-0.0146)Arg+(-0.0115)Tyr+(0.0238)Orn+(0.0060)Leu+(-0.1448)Trp;0.770,0.808,0.727,0.749,0.722,0.751,0.662,0.721,(-3.4778)+(0.0444)Ser+(-0.0180)Tyr+(-0.3505)Met+(-0.0040)Leu+(0.1161)Phe;0.770,0.803,0.816,0.832,0.813,0.815,0.778,0.810,(6.5716)+(-0.0001)Gly+(-0.0032)Ala+(-0.0067)Arg+(0.0021)Val+(-0.1362)Trp;0.770,0.798,0.772,0.765,0.751,0.800,0.811,0.782,(-0.1471)+(0.0037)Gly+(-0.0083)Ala+(-0.3044)Met+(0.0568)Ile+(0.0719)Phe;0.770,0.790,0.767,0.743,0.759,0.820,0.806,0.782,(7.1714)+(-0.1124)His+(-0.0035)Ala+(-0.0251)Cit+(-0.0169)Val+(0.0433)Leu;0.770,0.796,0.791,0.798,0.777,0.776,0.812,0.791,(1.5772)+(-0.0401)Val+(-0.3228)Met+(0.0004)Lys+(0.0565)Leu+(0.1067)Phe;0.770,0.796,0.758,0.751,0.759,0.834,0.722,0.766,(6.8954)+(0.0023)Gly+(-0.1179)His+(0.0170)Thr+(-0.0033)Ala+(-0.0380)Cit;0.770,0.791,0.733,0.706,0.740,0.793,0.743,0.746,(5.7730)+(0.0036)Gly+(-0.1351)His+(0.0034)Pro+(-0.0001)Lys+(0.0123)Leu;0.770,0.800,

0.749,0.722,0.763,0.807,0.750,0.760,(6.5481)+(-0.0196)Asn+(-0.1215)His+(-0.0081)Arg+(0.0035)Pro+(0.0340)Orn;0.770,0.801,0.755,0.737,0.770,0.814,0.728,0.762,(6.6405)+(0.0057)Gly+(-0.1158)His+(-0.0351)Cit+(-0.0967)Met+(0.0217)Leu;0.770,0.799,0.782,0.756,0.787,0.844,0.798,0.796,(3.4733)+(-0.0105)Ala+(-0.1062)Cit+(-0.1813)Met+(0.0389)Orn+(0.0605)Ile;0.770,0.798,0.745,0.709,0.773,0.819,0.729,0.757,(6.4555)+(-0.1163)His+(-0.0659)Cit+(0.0026)Pro+(0.0514)Orn+(-0.0036)Lys;0.770,0.807,0.748,0.741,0.790,0.848,0.605,0.746,(1.8429)+(0.0352)Ser+(-0.1048)Cit+(-0.2098)Met+(0.0495)Orn+(-0.0108)Lys;0.769,0.799,0.750,0.718,0.775,0.823,0.731,0.762,(6.6471)+(-0.1134)His+(-0.0667)Cit+(-0.0020)Val+(0.0543)Orn+(-0.0024)Lys;0.769,0.797,0.775,0.765,0.762,0.823,0.792,0.785,(7.2262)+(-0.1024)His+(-0.0046)Ala+(0.0112)Pro+(0.0020)Val+(-0.0741)Met;0.769,0.806,0.790,0.799,0.805,0.787,0.739,0.782,(5.6621)+(-0.0160)Arg+(0.0220)Orn+(0.0002)Lys+(0.0050)Leu+(-0.1495)Trp;0.769,0.796,0.742,0.739,0.748,0.802,0.695,0.746,(7.1554)+(-0.1266)His+(0.0210)Thr+(-0.0162)Arg+(-0.0208)Tyr+(0.0048)Lys;0.769,0.796,0.738,0.721,0.690,0.823,0.825,0.765,(3.6449)+(-0.0610)Cit+(-0.0028)Pro+(-0.0491)Val+(-0.0141)Lys+(0.1620)Ile;0.769,0.795,0.764,0.754,0.764,0.832,0.742,0.773,(7.1239)+(-0.1180)His+(0.0179)Thr+(-0.0034)Ala+(-0.0347)Cit+(0.0004)Lys;0.769,0.795,0.723,0.729,0.649,0.784,0.821,0.746,(3.2874)+(-0.0046)Gly+(0.0053)Thr+(-0.0509)Tyr+(-0.0519)Val+(0.1550)Ile;0.769,0.793,0.735,0.731,0.683,0.809,0.801,0.756,(3.3639)+(-0.0267)Arg+(-0.0448)Val+(-0.0042)Lys+(0.1875)Ile+(-0.0343)Leu;0.769,0.800,0.732,0.754,0.698,0.739,0.738,0.732,(-0.3126)+(0.0552)Ser+(-0.1609)Asn+(-0.0070)Gly+(-0.0701)Tyr+(0.0887)Phe;0.769,0.800,0.768,0.732,0.768,0.855,0.800,0.789,(3.8985)+(-0.0131)Ala+(-0.1280)Cit+(0.0538)Orn+(-0.0222)Lys+(0.0617)Ile;0.769,0.800,0.798,0.805,0.784,0.781,0.823,0.798,(2.8910)+(-0.0609)Asn+(-0.0423)Val+(-0.2574)Met+(0.0590)Leu+(0.1062)Phe;0.769,0.803,0.757,0.7

40,0.766,0.814,0.744,0.766,(7.0379)+(-0.0153)Asn+(-0.1157)His+(-0.0074)Arg+(-0.0176)Tyr+(0.0409)Orn;0.769,0.798,0.740,0.709,0.755,0.805,0.747,0.754,(6.1377)+(-0.1312)His+(-0.0090)Arg+(0.0024)Pro+(0.0313)Orn+(0.0059)Leu;0.769,0.802,0.754,0.737,0.763,0.810,0.739,0.762,(6.8766)+(-0.1179)His+(-0.0090)Arg+(-0.0172)Tyr+(-0.0011)Val+(0.0413)Orn;0.769,0.795,0.735,0.738,0.674,0.805,0.802,0.755,(3.9900)+(-0.0218)Arg+(-0.0314)Tyr+(-0.0521)Val+(-0.0041)Lys+(0.1632)Ile;0.769,0.792,0.769,0.748,0.763,0.817,0.804,0.783,(6.9397)+(-0.0133)Asn+(-0.1231)His+(-0.0038)Ala+(0.0030)Lys+(0.0152)Leu;0.769,0.794,0.756,0.732,0.750,0.805,0.792,0.770,(6.7441)+(-0.1227)His+(-0.0040)Arg+(-0.0200)Val+(0.0022)Lys+(0.0424)Leu;0.769,0.794,0.721,0.693,0.739,0.794,0.703,0.732,(5.7739)+(0.0034)Gly+(-0.1398)His+(0.0146)Thr+(-0.0381)Cit+(0.0152)Leu;0.769,0.800,0.752,0.769,0.702,0.796,0.781,0.762,(4.1855)+(-0.0836)Asn+(0.0060)Thr+(-0.0478)Tyr+(0.1495)Ile+(-0.0795)Leu;0.769,0.800,0.747,0.755,0.709,0.812,0.755,0.758,(3.8969)+(-0.0744)Cit+(-0.0451)Tyr+(-0.0056)Lys+(0.1621)Ile+(-0.0813)Leu;0.7

69,0.798,0.743,0.738,0.751,0.812,0.695,0.749,(6.8858)+(0.0017)Gly+(-0.1206)His+(0.0179)Thr+(-0.0337)Cit+(-0.0155)Tyr;0.769,0.793,0.759,0.752,0.746,0.823,0.757,0.770,(6.7197)+(0.0033)Gly+(-0.1118)His+(-0.0050)Ala+(-0.0061)Arg+(0.0102)Pro;0.769,0.792,0.728,0.697,0.744,0.791,0.733,0.741,(6.1492)+(-0.1380)His+(0.0158)Thr+(-0.0330)Cit+(0.0015)Pro+(0.0127)Leu;0.769,0.798,0.750,0.731,0.758,0.807,0.745,0.760,(6.3505)+(0.0079)Asn+(0.0044)Gly+(-0.1239)His+(-0.1057)Met+(0.0212)Leu;0.769,0.805,0.765,0.745,0.778,0.824,0.751,0.774,(6.8578)+(-0.1133)His+(-0.0061)Arg+(-0.0010)Val+(-0.0673)Met+(0.0397)Orn;0.769,0.800,0.748,0.743,0.757,0.810,0.696,0.752,(7.3982)+(-0.1193)His+(0.0218)Thr+(-0.0242)Cit+(-0.0099)Arg+(-0.0176)Tyr;0.769,0.795,0.745,0.732,0.755,0.805,0.713,0.751,(6.8624)+(-0.1313)His+(0.0185)Thr+(-0.0150)Arg+(-0.0002)Val+(0.

0024)Lys;0.769,0.797,0.747,0.739,0.753,0.810,0.710,0.753,(7.0510)+(-0.1206)His+(0.0188)Thr+(-0.0311)Cit+(-0.0182)Tyr+(0.0009)Lys;0.769,0.799,0.757,0.772,0.707,0.799,0.793,0.768,(4.1592)+(-0.0719)Asn+(-0.0007)Pro+(-0.0439)Tyr+(0.1531)Ile+(-0.0810)Leu;0.769,0.804,0.760,0.754,0.732,0.817,0.794,0.774,(2.8911)+(-0.0003)Pro+(-0.2449)Met+(0.0103)Orn+(0.1659)Ile+(-0.0820)Leu;0.769,0.802,0.758,0.758,0.726,0.812,0.786,0.771,(3.1167)+(0.0010)Gly+(-0.0119)Tyr+(-0.2224)Met+(0.1679)Ile+(-0.0805)Leu;0.769,0.793,0.769,0.750,0.762,0.818,0.803,0.783,(7.0386)+(-0.0088)Asn+(-0.1216)His+(-0.0037)Ala+(-0.0003)Arg+(0.0166)Leu;0.769,0.796,0.725,0.731,0.657,0.798,0.800,0.746,(3.2974)+(-0.0386)Tyr+(-0.0400)Val+(-0.0077)Lys+(0.1795)Ile+(-0.0320)Leu;0.769,0.796,0.774,0.766,0.760,0.824,0.788,0.785,(7.2415)+(0.0034)Asn+(-0.1003)His+(-0.0044)Ala+(0.0116)Pro+(-0.0752)Met;0.769,0.804,0.761,0.760,0.729,0.811,0.793,0.773,(3.3101)+(0.0009)Pro+(-0.0138)Tyr+(-0.2180)Met+(0.1663)Ile+(-0.0804)Leu;0.769,0.805,0.820,0.836,0.818,0.822,0.784,0.815,(6.5825)+(-0.0000)Gly+(-0.0032)Ala+(-0.0073)Arg+(0.0066)Tyr+(-0.1356)Trp;0.769,0.793,0.732,0.715,0.733,0.788,0.737,0.743,(6.1323)+(0.0032)Gly+(-0.1288)His+(0.0050)Pro+(-0.0178)Tyr+(0.0135)Leu;0.769,0.804,0.735,0.739,0.675,0.831,0.783,0.757,(0.5900)+(0.0410)Ser+(-0.1294)Asn+(-0.0085)Ala+(-0.0327)Tyr+(0.0584)Ile;0.769,0.798,0.757,0.746,0.768,0.817,0.721,0.763,(7.5937)+(-0.0380)Asn+(-0.1170)His+(0.0219)Thr+(-0.0271)Cit+(-0.0072)Arg;0.769,0.797,0.707,0.678,0.670,0.803,0.790,0.735,(0.7871)+(-0.0946)Cit+(-0.0544)Val+(0.0349)Orn+(0.1406)Ile+(0.0237)Phe;0.769,0.798,0.762,0.747,0.764,0.828,0.747,0.771,(6.9872)+(-0.1222)His+(0.0178)Thr+(-0.0042)Ala+(-0.0377)Cit+(0.0043)Val;0.769,0.793,0.769,0.756,0.755,0.816,0.800,0.781,(6.9596)+(-0.0243)Asn+(-0.1120)His+(-0.0054)Ala+(0.0097)Pro+(0.0063)Lys;0.769,0.800,0.759,0.745,0.775,0.869,0.682,0.768,(2.3968)+(0.0268)Ser+(-0.0093)Ala+(-0.1269)Cit+(0.0621)Orn+(-0.0195)Lys;

0.769,0.793,0.765,0.756,0.749,0.817,0.786,0.777,(7.0454)+(-0.1100)His+(-0.0050)Ala+(0.0102)Pro+(-0.0114)Tyr+(0.0019)Val;0.769,0.801,0.751,0.753,0.783,0.842,0.614,0.748,(1.7914)+(0.0321)Ser+(-0.0973)Cit+(-0.0056)Val+(-0.2319)Met+(0.0465)Orn;0.769,0.800,0.750,0.733,0.759,0.805,0.733,0.758,(6.7278)+(-0.1230)His+(-0.0112)Arg+(-0.0218)Tyr+(0.0388)Orn+(0.0049)Lys;0.769,0.792,0.731,0.713,0.744,0.804,0.698,0.740,(6.2141)+(0.0028)Gly+(-0.1271)His+(0.0133)Thr+(-0.0358)Cit+(0.0041)Pro;0.769,0.793,0.766,0.758,0.758,0.824,0.762,0.775,(6.9506)+(-0.0148)Asn+(0.0034)Gly+(-0.1170)His+(-0.0026)Ala+(0.0038)Val;0.769,0.792,0.741,0.720,0.752,0.806,0.724,0.751,(6.6497)+(-0.1256)His+(0.0155)Thr+(-0.0320)Cit+(0.0038)Pro+(-0.0016)Lys;0.768,0.789,0.734,0.726,0.678,0.809,0.816,0.758,(3.0395)+(-0.0004)Gly+(-0.0283)Arg+(-0.0017)Pro+(-0.0567)Val+(0.1641)Ile;0.768,0.794,0.755,0.735,0.747,0.804,0.792,0.769,(6.9248)+(-0.1197)His+(-0.0018)Arg+(-0.0077)Tyr+(-0.0192)Val+(0.0433)Leu;0.768,0.800,0.779,0.768,0.779,0.784,0.806,0.784,(-0.9997)+(0.0052)Gln+(-0.3461)Met+(-0.0153)Lys+(0.0499)Ile+(0.0748)Phe;0.768,0.805,0.765,0.743,0.777,0.824,0.752,0.774,(6.8210)+(-0.0001)Asn+(-0.1146)His+(-0.0058)Arg+(-0.0695)Met+(0.0389)Orn;0.768,0.801,0.759,0.751,0.770,0.819,0.712,0.763,(6.8640)+(0.0050)Gly+(-0.1017)His+(-0.0334)Cit+(0.0091)Pro+(-0.0938)Met;0.768,0.793,0.698,0.678,0.626,0.796,0.831,0.733,(-0.2111)+(0.0303)Ser+(-0.0098)Gly+(-0.0459)Val+(0.1806)Ile+(-0.0364)Leu;0.768,0.804,0.813,0.829,0.813,0.810,0.772,0.806,(6.4134)+(-0.0002)Gly+(-0.0032)Ala+(-0.0109)Arg+(0.0062)Lys+(-0.1394)Trp;0.768,0.804,0.777,0.763,0.769,0.842,0.785,0.790,(2.9325)+(0.0060)Gly+(-0.0097)Ala+(-0.0873)Cit+(-0.1985)Met+(0.0776)Ile;0.768,0.796,0.716,0.715,0.651,0.801,0.793,0.740,(3.2803)+(0.0080)Thr+(-0.0402)Tyr+(-0.0499)Val+(-0.0138)Lys+(0.1589)Ile;0.768,0.791,0.736,0.726,0.686,0.815,0.807,0.759,(3.1755)+(-0.0434)Cit+(-0.0200)Arg+(-0.0018)Pro+(-0.0539)Val+(0.1611)Ile;0.768,0

.805,0.729,0.759,0.704,0.767,0.674,0.726,(-0.3729)+(0.0474)Ser+(-0.15
07)Asn+(-0.0586)Tyr+(-0.0110)Lys+(0.0951)Phe;0.768,0.799,0.712,0.716,
0.685,0.812,0.689,0.725,(-0.2496)+(0.0305)Ser+(-0.0429)Arg+(-0.0045)P
ro+(0.1789)Ile+(-0.0989)Leu;0.768,0.806,0.795,0.806,0.798,0.774,0.777
,0.789,(5.7997)+(-0.0008)Gly+(-0.0101)Tyr+(-0.0006)Lys+(0.0102)Leu+(-
0.1492)Trp;0.768,0.799,0.784,0.794,0.724,0.853,0.834,0.801,(2.0822)+(
0.0034)Gln+(-0.0105)Ala+(-0.0300)Arg+(0.1805)Ile+(-0.0932)Leu;0.768,0
.799,0.717,0.712,0.656,0.798,0.801,0.742,(3.1152)+(-0.0397)Tyr+(-0.05
02)Val+(0.0244)Orn+(-0.0137)Lys+(0.1550)Ile;0.768,0.798,0.744,0.704,0
.774,0.817,0.737,0.758,(6.4521)+(-0.1198)His+(-0.0655)Cit+(0.0507)Orn
+(-0.0052)Lys+(0.0083)Leu;0.768,0.795,0.738,0.716,0.744,0.796,0.745,0
.750,(6.1527)+(-0.0258)Asn+(0.0042)Gly+(-0.1279)His+(0.0039)Pro+(0.01
21)Leu;0.768,0.808,0.720,0.737,0.717,0.751,0.656,0.715,(-3.6523)+(0.0
445)Ser+(-0.0190)Tyr+(-0.3583)Met+(0.0046)Orn+(0.1110)Phe;0.768,0.795
,0.744,0.728,0.744,0.799,0.748,0.755,(6.5393)+(-0.0190)Asn+(0.0038)Gl
y+(-0.1262)His+(-0.0101)Tyr+(0.0159)Leu;0.768,0.804,0.728,0.709,0.767
,0.748,0.683,0.727,(0.0067)+(0.0307)Thr+(-0.0884)Cit+(-0.4264)Met+(0.
0462)Ile+(0.0837)Phe;0.768,0.797,0.705,0.705,0.683,0.809,0.673,0.718,
(-0.3939)+(0.0297)Ser+(-0.0450)Arg+(0.0061)Orn+(0.1699)Ile+(-0.0988)L
eu;0.768,0.800,0.755,0.746,0.757,0.808,0.735,0.761,(6.5626)+(0.0040)G
ly+(-0.1109)His+(0.0084)Pro+(0.0017)Val+(-0.0977)Met;0.768,0.804,0.76
0,0.754,0.733,0.814,0.792,0.773,(2.9536)+(-0.2425)Met+(0.0109)Orn+(-0
.0012)Lys+(0.1651)Ile+(-0.0813)Leu;0.768,0.798,0.773,0.796,0.767,0.84
3,0.677,0.771,(1.9141)+(0.0381)Ser+(-0.0899)Asn+(0.0115)Thr+(-0.0027)
Ala+(-0.1868)Met;0.768,0.792,0.770,0.764,0.753,0.819,0.788,0.781,(7.3
503)+(-0.0145)Asn+(-0.1040)His+(-0.0047)Ala+(0.0106)Pro+(-0.0094)Tyr;
0.768,0.790,0.725,0.729,0.652,0.785,0.825,0.748,(3.5822)+(-0.0030)Gly
+(-0.0009)Gln+(-0.0447)Tyr+(-0.0514)Val+(0.1555)Ile;0.768,0.804,0.727

,0.721,0.764,0.820,0.603,0.727,(0.8205)+(0.0384)Ser+(-0.0974)Cit+(0.0095)Pro+(-0.2940)Met+(0.0344)Orn;0.768,0.790,0.745,0.718,0.743,0.800,0.784,0.761,(6.6731)+(-0.1185)His+(-0.0225)Cit+(0.0049)Pro+(-0.0201)Val+(0.0413)Leu;0.768,0.798,0.764,0.756,0.766,0.831,0.731,0.771,(7.3875)+(-0.1176)His+(0.0203)Thr+(-0.0032)Ala+(-0.0286)Cit+(-0.0085)Arg;0.768,0.807,0.763,0.762,0.749,0.852,0.730,0.773,(3.1315)+(0.0257)Thr+(-0.0495)Val+(-0.3311)Met+(0.0236)Orn+(0.0799)Leu;0.768,0.801,0.759,0.756,0.729,0.816,0.787,0.772,(2.8672)+(0.0015)Gly+(0.0002)Pro+(-0.2451)Met+(0.1675)Ile+(-0.0809)Leu;0.768,0.798,0.748,0.714,0.775,0.820,0.730,0.760,(6.5821)+(-0.1156)His+(-0.0674)Cit+(0.0007)Arg+(0.0532)Orn+(-0.0034)Lys;0.768,0.793,0.741,0.728,0.751,0.814,0.703,0.749,(6.5666)+(0.0024)Gly+(-0.1255)His+(0.0155)Thr+(-0.0350)Cit+(-0.0007)Lys;0.768,0.793,0.767,0.749,0.758,0.813,0.798,0.780,(7.1269)+(-0.0076)Asn+(-0.1203)His+(-0.0033)Ala+(-0.0069)Tyr+(0.0172)Leu;0.768,0.798,0.756,0.748,0.758,0.810,0.734,0.762,(6.6602)+(-0.0014)Asn+(0.0039)Gly+(-0.1082)His+(0.0088)Pro+(-0.0940)Met;0.768,0.801,0.759,0.750,0.748,0.785,0.789,0.768,(-0.3264)+(0.0221)Thr+(-0.0085)Ala+(-0.3675)Met+(0.0535)Ile+(0.0750)Phe;0.768,0.799,0.716,0.695,0.656,0.794,0.840,0.746,(2.2581)+(-0.0018)Gln+(-0.0546)Val+(-0.0166)Lys+(0.1569)Ile+(0.0354)Phe;0.768,0.798,0.726,0.729,0.753,0.808,0.604,0.723,(1.2039)+(0.0381)Ser+(0.0094)Thr+(-0.0762)Cit+(0.0115)Pro+(-0.3123)Met;0.768,0.796,0.747,0.745,0.725,0.831,0.740,0.760,(3.5591)+(-0.0912)Asn+(0.0054)Gly+(-0.0816)Cit+(0.1541)Ile+(-0.0816)Leu;0.768,0.792,0.728,0.718,0.666,0.808,0.829,0.755,(2.6626)+(-0.0050)Pro+(-0.0439)Val+(-0.0125)Lys+(0.1844)Ile+(-0.0295)Leu;0.768,0.798,0.776,0.775,0.709,0.847,0.870,0.800,(2.7526)+(-0.0005)Gly+(-0.0110)Ala+(-0.0091)Lys+(0.1657)Ile+(-0.0804)Leu;0.767,0.802,0.766,0.763,0.737,0.815,0.804,0.780,(3.2536)+(-0.0119)Asn+(-0.2300)Met+(0.0013)Lys+(0.1660)Ile+(-0.0814)Leu;0.767,0.792,0.763,0.753,0.756

,0.822,0.761,0.773,(6.7453)+(0.0031)Gly+(-0.1207)His+(-0.0028)Ala+(-0.0023)Tyr+(0.0044)Val;0.767,0.789,0.704,0.684,0.653,0.809,0.789,0.734,(0.1774)+(0.0259)Ser+(-0.0126)Thr+(-0.0627)Cit+(-0.0490)Val+(0.1472)Ile;0.767,0.804,0.764,0.760,0.777,0.824,0.705,0.766,(4.2497)+(0.0338)Thr+(-0.0572)Cit+(-0.0426)Val+(-0.3327)Met+(0.0766)Leu;0.767,0.796,0.738,0.721,0.750,0.799,0.712,0.746,(6.6391)+(-0.1319)His+(0.0173)Thr+(-0.0151)Arg+(0.0037)Pro+(0.0018)Lys;0.767,0.799,0.751,0.728,0.764,0.808,0.742,0.761,(6.5122)+(-0.1236)His+(-0.0120)Arg+(-0.0034)Val+(0.0371)Orn+(0.0037)Lys;0.767,0.789,0.707,0.708,0.638,0.781,0.793,0.730,(3.3425)+(-0.0022)Gln+(0.0037)Thr+(-0.0450)Tyr+(-0.0518)Val+(0.1566)Ile;0.767,0.795,0.772,0.774,0.697,0.846,0.871,0.797,(1.7871)+(-0.0015)Gly+(0.0006)Gln+(-0.0118)Ala+(0.1674)Ile+(-0.0865)Leu;0.767,0.789,0.651,0.616,0.601,0.763,0.769,0.687,(0.2195)+(0.0294)Ser+(-0.0077)Gln+(-0.0583)Val+(0.1544)Ile+(0.0358)Phe;0.767,0.801,0.771,0.768,0.706,0.845,0.860,0.795,(2.5676)+(-0.0111)Ala+(0.0106)Orn+(-0.0109)Lys+(0.1626)Ile+(-0.0799)Leu;0.767,0.792,0.764,0.750,0.748,0.817,0.793,0.777,(6.6093)+(-0.1171)His+(-0.0055)Ala+(0.0094)Pro+(0.0003)Val+(0.0046)Lys;0.767,0.804,0.810,0.816,0.809,0.808,0.801,0.808,(6.1328)+(-0.0045)Ala+(-0.0077)Arg+(0.0033)Tyr+(0.0148)Leu+(-0.1458)Trp;0.767,0.797,0.775,0.767,0.761,0.825,0.789,0.786,(7.3084)+(-0.0997)His+(-0.0044)Ala+(-0.0005)Arg+(0.0116)Pro+(-0.0714)Met;0.767,0.797,0.797,0.805,0.776,0.789,0.826,0.799,(1.7146)+(-0.0027)Ala+(-0.0384)Val+(-0.3005)Met+(0.0562)Leu+(0.1056)Phe;0.767,0.790,0.665,0.641,0.611,0.784,0.755,0.698,(1.0551)+(0.0263)Ser+(-0.0057)Gln+(-0.0469)Val+(0.1803)Ile+(-0.0302)Leu;0.767,0.792,0.772,0.761,0.757,0.824,

0.794,0.784,(7.3031)+(-0.0134)Asn+(-0.1062)His+(-0.0050)Ala+(-0.0029)Arg+(0.0100)Pro;0.767,0.792,0.735,0.718,0.750,0.809,0.699,0.744,(6.3242)+(0.0028)Gly+(-0.1298)His+(0.0147)Thr+(-0.0366)Cit+(0.0024)Val;0.7

67,0.792,0.768,0.756,0.754,0.824,0.792,0.781,(7.0672)+(-0.1110)His+(-0.0052)Ala+(-0.0042)Arg+(0.0097)Pro+(0.0012)Val;0.767,0.796,0.704,0.704,0.681,0.808,0.677,0.718,(-0.2501)+(0.0311)Ser+(-0.0005)Gln+(-0.0433)Arg+(0.1706)Ile+(-0.0976)Leu;0.767,0.795,0.738,0.728,0.750,0.804,0.696,0.744,(6.6113)+(0.0019)Gly+(-0.1323)His+(0.0174)Thr+(-0.0157)Arg+(0.0029)Lys;0.767,0.795,0.779,0.750,0.774,0.851,0.813,0.797,(3.9379)+(-0.0754)Asn+(-0.0127)Ala+(-0.1158)Cit+(0.0449)Orn+(0.0458)Ile;0.767,0.790,0.759,0.748,0.751,0.818,0.760,0.769,(6.4381)+(0.0030)Gly+(-0.1248)His+(-0.0031)Ala+(0.0032)Val+(0.0045)Lys;0.767,0.798,0.748,0.732,0.691,0.844,0.837,0.776,(0.2457)+(0.0477)Ser+(-0.1422)Asn+(-0.0046)Gly+(-0.0101)Ala+(0.0514)Ile;0.767,0.797,0.707,0.714,0.648,0.791,0.750,0.726,(-0.2261)+(0.0295)Ser+(-0.0187)Thr+(-0.0428)Tyr+(0.1630)Ile+(-0.0856)Leu;0.767,0.795,0.759,0.775,0.721,0.803,0.764,0.765,(4.6276)+(-0.0504)Asn+(-0.0183)Arg+(-0.0411)Tyr+(0.1601)Ile+(-0.0850)Leu;0.767,0.789,0.699,0.689,0.630,0.800,0.795,0.729,(-0.5111)+(0.0282)Ser+(-0.0189)Thr+(-0.0385)Val+(0.1834)Ile+(-0.0453)Leu;0.767,0.792,0.709,0.687,0.639,0.800,0.848,0.744,(-0.1850)+(0.0364)Ser+(-0.0086)Gly+(-0.0145)Thr+(-0.0531)Val+(0.1489)Ile;0.767,0.789,0.734,0.727,0.678,0.810,0.814,0.758,(2.8667)+(0.0003)Gln+(-0.0290)Arg+(-0.0018)Pro+(-0.0567)Val+(0.1639)Ile;0.767,0.801,0.743,0.711,0.758,0.807,0.751,0.757,(6.2350)+(-0.1317)His+(-0.0083)Arg+(0.0324)Orn+(-0.0002)Lys+(0.0073)Leu;0.767,0.794,0.771,0.751,0.768,0.817,0.798,0.783,(6.9966)+(0.0138)Asn+(-0.1182)His+(-0.0027)Ala+(-0.0848)Met+(0.0209)Leu;0.767,0.791,0.739,0.717,0.751,0.803,0.726,0.749,(6.5336)+(-0.1272)His+(0.0149)Thr+(-0.0318)Cit+(0.0036)Pro+(0.0001)Val;0.767,0.803,0.701,0.707,0.657,0.786,0.716,0.716,(0.5876)+(0.0248)Ser+(-0.0478)Tyr+(-0.0149)Lys+(0.1502)Ile+(-0.0733)Leu;0.767,0.797,0.766,0.768,0.692,0.841,0.860,0.790,(1.6757)+(0.0000)Gln+(-0.0119)Ala+(0.0039)Orn+(0.1664)Ile+(-0.0862)Leu;0.767,0.796,0.

791,0.799,0.779,0.776,0.808,0.791,(1.7065)+(-0.0026)Arg+(-0.0395)Val+(-0.3167)Met+(0.0557)Leu+(0.1067)Phe;0.767,0.796,0.710,0.702,0.695,0.824,0.677,0.725,(0.0359)+(0.0300)Ser+(-0.0629)Cit+(-0.0307)Arg+(0.1694)Ile+(-0.0935)Leu;0.767,0.796,0.725,0.708,0.662,0.807,0.840,0.754,(2.8592)+(-0.0020)Gly+(0.0039)Thr+(-0.0531)Val+(-0.0166)Lys+(0.1586)Ile;0.767,0.796,0.677,0.664,0.619,0.783,0.755,0.705,(1.9536)+(0.0256)Ser+(-0.0051)Gln+(-0.0398)Tyr+(-0.0504)Val+(0.1565)Ile;0.767,0.795,0.713,0.717,0.641,0.792,0.798,0.737,(2.2291)+(-0.0026)Pro+(-0.0476)Tyr+(-0.0521)Val+(0.0185)Orn+(0.1533)Ile;0.767,0.800,0.742,0.713,0.757,0.804,0.740,0.754,(6.2269)+(-0.1280)His+(-0.0108)Arg+(0.0032)Pro+(0.0326)Orn+(0.0017)Lys;0.767,0.797,0.720,0.697,0.665,0.809,0.835,0.751,(2.7474)+(-0.0027)Gly+(-0.0537)Val+(0.0222)Orn+(-0.0180)Lys+(0.1560)Ile;0.767,0.804,0.818,0.833,0.816,0.819,0.783,0.813,(6.4872)+(-0.0035)Ala+(-0.0075)Arg+(0.0057)Tyr+(0.0019)Val+(-0.1380)Trp;0.767,0.793,0.744,0.725,0.750,0.802,0.743,0.755,(6.4183)+(-0.0197)Asn+(0.0042)Gly+(-0.1279)His+(-0.0032)Arg+(0.0145)Leu;0.767,0.788,0.748,0.737,0.748,0.800,0.739,0.756,(6.6162)+(-0.0267)Asn+(0.0036)Gly+(-0.1162)His+(0.0061)Pro+(-0.0005)Val;0.767,0.797,0.756,0.763,0.775,0.811,0.660,0.752,(1.8933)+(0.0451)Ser+(-0.0758)Asn+(-0.0661)Cit+(-0.1921)Met+(0.0109)Leu;0.767,0.796,0.769,0.770,0.698,0.841,0.865,0.793,(1.9257)+(-0.0014)Gly+(-0.0118)Ala+(0.0051)Orn+(0.1659)Ile+(-0.0864)Leu;0.767,0.794,0.740,0.730,0.755,0.812,0.686,0.746,(6.8000)+(0.0025)Gly+(-0.1253)His+(0.0179)Thr+(-0.0278)Cit+(-0.0099)Arg;0.767,0.793,0.746,0.727,0.758,0.810,0.724,0.755,(6.7958)+(-0.1272)His+(0.0169)Thr+(-0.0326)Cit+(0.0019)Val+(-0.0019)Lys;0.767,0.804,0.812,0.828,0.813,0.809,0.772,0.805,(6.3590)+(-0.0034)Ala+(-0.0109)Arg+(0.0008)Val+(0.0058)Lys+(-0.1402)Trp;0.767,0.791,0.734,0.724,0.681,0.808,0.818,0.758,(3.4381)+(-0.0003)Gly+(-0.0238)Arg+(-0.0548)Val+(-0.0078)Lys+(0.1641)Ile;0.767,0.797,0.764,0.756,0.

738,0.833,0.787,0.778,(4.1118)+(-0.0861)Asn+(0.0039)Thr+(-0.0747)Cit+(0.1493)Ile+(-0.0818)Leu;0.767,0.792,0.714,0.691,0.679,0.815,0.772,0.739,(1.8588)+(-0.0955)Cit+(-0.0407)Val+(0.0355)Orn+(0.1736)Ile+(-0.0398)Leu;0.767,0.790,0.762,0.739,0.758,0.806,0.795,0.775,(7.4984)+(-0.0306)Asn+(-0.1081)His+(-0.0199)Cit+(-0.0215)Val+(0.0463)Leu;0.767,0.799,0.753,0.728,0.767,0.810,0.751,0.764,(6.6415)+(-0.0209)Asn+(-0.1232)His+(-0.0091)Arg+(0.0349)Orn+(0.0031)Lys;0.767,0.800,0.752,0.734,0.759,0.805,0.747,0.761,(6.1983)+(0.0045)Gly+(-0.1262)His+(-0.1172)Met+(0.0065)Lys+(0.0187)Leu;0.766,0.801,0.730,0.716,0.672,0.840,0.808,0.759,(0.0318)+(0.0416)Ser+(-0.1477)Asn+(-0.0117)Ala+(0.0069)Pro+(0.0475)Ile;0.766,0.805,0.762,0.774,0.725,0.829,0.760,0.772,(-0.2937)+(0.0457)Ser+(-0.1501)Asn+(-0.0070)Ala+(-0.0118)Lys+(0.0753)Phe;0.766,0.789,0.687,0.662,0.641,0.793,0.774,0.718,(-0.9131)+(0.0197)Ser+(-0.0729)Cit+(-0.0527)Val+(0.1439)Ile+(0.0280)Phe;0.766,0.790,0.728,0.733,0.653,0.789,0.828,0.751,(3.3010)+(-0.0035)Gly+(-0.0007)Pro+(-0.0456)Tyr+(-0.0513)Val+(0.1550)Ile;0.766,0.795,0.771,0.745,0.771,0.818,0.807,0.785,(7.0604)+(-0.1068)His+(0.0143)Tyr+(-0.0245)Val+(-0.1243)Met+(0.0559)Leu;0.766,0.790,0.712,0.707,0.638,0.787,0.824,0.739,(0.2132)+(-0.0076)Pro+(-0.0441)Val+(0.1900)Ile+(-0.0455)Leu+(0.0343)Phe;0.766,0.801,0.739,0.741,0.779,0.825,0.589,0.734,(1.2647)+(0.0332)Ser+(0.0055)Thr+(-0.0990)Cit+(-0.2702)Met+(0.0389)Orn;0.766,0.798,0.748,0.717,0.773,0.820,0.729,0.760,(6.5855)+(-0.1148)His+(-0.0636)Cit+(-0.0021)Arg+(-0.0026)Val+(0.0530)Orn;0.766,0.798,0.779,0.764,0.751,0.826,0.842,0.796,(3.1257)+(-0.0097)Ala+(0.0090)Pro+(-0.2193)Met+(-0.0079)Lys+(0.0632)Ile;0.766,0.798,0.752,0.769,0.729,0.794,0.726,0.755,(0.1542)+(0.0466)Ser+(-0.1872)Asn+(-0.0186)Val+(-0.0052)Lys+(0.0990)Phe;0.766,0.793,0.732,0.705,0.749,0.797,0.720,0.743,(6.4788)+(-0.1372)His+(0.0187)Thr+(-0.0269)Cit+(-0.0085)Arg+(0.0131)Leu;0.766,0.795,0.738,0.698,0.765,0.812,0

.732,0.752,(6.0914)+(-0.1245)His+(-0.0622)Cit+(0.0015)Pro+(0.0466)Orn+(0.0053)Leu;0.766,0.793,0.743,0.722,0.747,0.801,0.749,0.755,(6.2559)+(-0.0259)Asn+(0.0041)Gly+(-0.1299)His+(0.0023)Lys+(0.0135)Leu;0.766,0.798,0.753,0.732,0.762,0.811,0.747,0.763,(6.3169)+(0.0048)Gly+(-0.1235)His+(0.0074)Tyr+(-0.1106)Met+(0.0206)Leu;0.766,0.796,0.776,0.783,0.718,0.848,0.827,0.794,(3.1215)+(0.0010)Gly+(-0.0103)Ala+(-0.0251)Arg+(0.1778)Ile+(-0.0903)Leu;0.766,0.789,0.690,0.682,0.619,0.797,0.783,0.720,(-0.4561)+(0.0174)Ser+(-0.0067)Pro+(-0.0443)Val+(0.1895)Ile+(-0.0391)Leu;0.766,0.799,0.752,0.734,0.759,0.808,0.749,0.762,(6.4086)+(0.0045)Gly+(-0.1229)His+(0.0012)Arg+(-0.1003)Met+(0.0209)Leu;0.766,0.797,0.720,0.700,0.663,0.812,0.827,0.750,(2.4705)+(-0.0057)Pro+(-0.0534)Val+(0.0230)Orn+(-0.0181)Lys+(0.1627)Ile;0.766,0.796,0.781,0.771,0.775,0.831,0.788,0.791,(7.6283)+(-0.0922)His+(-0.0050)Ala+(-0.0308)Cit+(0.0122)Pro+(-0.0652)Met;0.766,0.802,0.762,0.741,0.775,0.819,0.749,0.771,(6.6447)+(-0.1184)His+(-0.0083)Arg+(-0.0872)Met+(0.0359)Orn+(0.0068)Lys;0.766,0.796,0.707,0.682,0.655,0.800,0.816,0.738,(3.0976)+(-0.0022)Gln+(-0.0540)Val+(0.0230)Orn+(-0.0165)Lys+(0.1580)Ile;0.766,0.799,0.778,0.779,0.708,0.849,0.868,0.801,(2.1736)+(0.0014)Gln+(-0.0112)Ala+(-0.0107)Lys+(0.1655)Ile+(-0.0802)Leu;0.766,0.796,0.786,0.776,0.769,0.801,0.838,0.796,(0.8631)+(-0.0145)Asn+(-0.0081)Ala+(-0.2716)Met+(0.0533)Ile+(0.0673)Phe;0.766,0.792,0.712,0.691,0.661,0.788,0.818,0.739,(1.9819)+(-0.0023)Gln+(-0.0631)Cit+(-0.0548)Val+(0.1512)Ile+(0.0326)Phe;0.766,0.796,0.775,0.766,0.761,0.825,0.790,0.786,(7.2822)+(-0.0999)His+(-0.0044)Ala+(0.0115)Pro+(0.0007)Tyr+(-0.0731)Met;0.766,0.789,0.704,0.677,0.651,0.807,0.814,0.737,(0.3362)+(0.0277)Ser+(-0.0064)Gly+(-0.0602)Cit+(-0.0521)Val+(0.1488)Ile;0.766,0.791,0.771,0.755,0.763,0.826,0.789,0.783,(7.2505)+(-0.1047)His+(-0.0062)Ala+(-0.0348)Cit+(0.0103)Pro+(0.0026)Val;0.766,0.798,0.757,0.772,0.706,0.797,0.793,0.767,(4.

1754)+(-0.0714)Asn+(-0.0442)Tyr+(-0.0005)Lys+(0.1520)Ile+(-0.0806)Leu;0.766,0.796,0.742,0.705,0.769,0.816,0.728,0.754,(6.2911)+(-0.1199)His+(-0.0620)Cit+(-0.0021)Arg+(0.0024)Pro+(0.0486)Orn;0.766,0.793,0.695,0.695,0.623,0.795,0.772,0.721,(0.7155)+(0.0174)Ser+(-0.0019)Pro+(-0.0449)Tyr+(-0.0499)Val+(0.1519)Ile;0.766,0.798,0.771,0.770,0.703,0.844,0.862,0.795,(2.6543)+(-0.0118)Ala+(0.0035)Pro+(-0.0094)Lys+(0.1610)Ile+(-0.0792)Leu;0.766,0.798,0.698,0.715,0.668,0.732,0.694,0.702,(-1.2563)+(0.0469)Ser+(-0.1703)Asn+(-0.0693)Tyr+(0.0283)Ile+(0.0732)Phe;0.766,0.799,0.754,0.758,0.724,0.828,0.755,0.766,(0.6680)+(0.0473)Ser+(-0.0068)Gly+(-0.0068)Ala+(0.0159)Pro+(-0.2585)Met;0.766,0.795,0.767,0.767,0.693,0.842,0.867,0.792,(1.9894)+(-0.0013)Gly+(-0.0125)Ala+(0.0034)Pro+(0.1629)Ile+(-0.0853)Leu;0.766,0.792,0.739,0.721,0.738,0.794,0.744,0.750,(6.2083)+(0.0032)Gly+(-0.1320)His+(-0.0136)Tyr+(0.0020)Lys+(0.0152)Leu;0.766,0.791,0.770,0.767,0.759,0.826,0.761,0.778,(7.1727)+(-0.0187)Asn+(0.0032)Gly+(-0.1112)His+(-0.0020)Ala+(0.0024)Tyr;0.766,0.805,0.762,0.744,0.773,0.821,0.747,0.771,(6.9081)+(-0.1139)His+(-0.0061)Arg+(-0.0077)Tyr+(-0.0572)Met+(0.0403)Orn;0.766,0.793,0.724,0.709,0.661,0.810,0.832,0.753,(2.6571)+(0.0040)Thr+(-0.0045)Pro+(-0.0528)Val+(-0.0167)Lys+(0.1639)Ile;0.765,0.801,0.804,0.821,0.811,0.788,0.753,0.793,(6.2397)+(-0.0005)Gly+(-0.0126)Arg+(-0.0014)Val+(0.0054)Lys+(-0.1437)Trp;0.765,0.793,0.736,0.728,0.681,0.811,0.815,0.759,(3.1104)+(0.0009)Gln+(-0.0252)Arg+(-0.0546)Val+(-0.0083)Lys+(0.1634)Ile;0.765,0.788,0.714,0.716,0.644,0.785,0.804,0.737,(3.3060)+(-0.0017)Gln+(-0.0008)Pro+(-0.0419)Tyr+(-0.0514)Val+(0.1567)Ile;0.765,0.795,0.778,0.781,0.704,0.846,0.876,0.802,(1.7309)+(0.0015)Gln+(-0.0101)Thr+(-0.0111)Ala+(0.1725)Ile+(-0.0880)Leu;0.765,0.786,0.771,0.750,0.769,0.822,0.795,0.784,(7.3511)+(-0.0073)Asn+(-0.1138)His+(-0.0041)Ala+(-0.0312)Cit+(0.0178)Leu;0.765,0.795,0.748,0.765,0.726,0.787,0.717,0.749,(0.1659)+(0

.0447)Ser+(-0.2035)Asn+(0.0035)Thr+(-0.0207)Val+(0.0985)Phe;0.765,0.790,0.734,0.725,0.680,0.810,0.818,0.758,(3.4162)+(-0.0233)Arg+(-0.0017)Pro+(-0.0547)Val+(-0.0078)Lys+(0.1658)Ile;0.765,0.803,0.761,0.760,0.728,0.811,0.793,0.773,(3.2331)+(-0.0136)Tyr+(-0.2197)Met+(0.0012)Lys+(0.1680)Ile+(-0.0813)Leu;0.765,0.789,0.754,0.728,0.752,0.805,0.788,0.768,(6.8586)+(-0.1191)His+(-0

.0213)Cit+(-0.0188)Val+(0.0007)Lys+(0.0418)Leu;0.765,0.795,0.679,0.688,0.629,0.765,0.696,0.694,(0.7662)+(0.0228)Ser+(-0.0027)Gln+(-0.0559)Tyr+(0.1538)Ile+(-0.0807)Leu;0.765,0.799,0.768,0.786,0.757,0.842,0.695,0.770,(1.4289)+(0.0404)Ser+(-0.0926)Asn+(-0.0034)Ala+(-0.1612)Met+(0.0232)Orn;0.765,0.806,0.704,0.682,0.719,0.761,0.692,0.713,(-0.7853)+(0.0465)Ser+(-0.1821)Asn+(-0.0832)Cit+(0.0245)Ile+(0.0483)Phe;0.765,0.800,0.715,0.713,0.681,0.816,0.721,0.733,(-0.5198)+(0.0377)Ser+(-0.0157)Thr+(-0.0350)Arg+(0.1774)Ile+(-0.0984)Leu;0.765,0.787,0.700,0.678,0.652,0.813,0.776,0.730,(0.2154)+(0.0202)Ser+(-0.0687)Cit+(-0.0050)Pro+(-0.0508)Val+(0.1535)Ile;0.765,0.792,0.760,0.752,0.742,0.810,0.780,0.771,(6.7583)+(-0.1137)His+(-0.0050)Ala+(0.0105)Pro+(-0.0153)Tyr+(0.0063)Lys;0.765,0.795,0.764,0.765,0.688,0.842,0.861,0.789,(1.7160)+(0.0001)Gln+(-0.0126)Ala+(0.0033)Pro+(0.1632)Ile+(-0.0852)Leu;0.765,0.794,0.765,0.747,0.756,0.814,0.795,0.778,(7.0166)+(-0.1221)His+(-0.0034)Ala+(-0.0006)Arg+(-0.0073)Tyr+(0.0173)Leu;0.765,0.795,0.774,0.754,0.770,0.818,0.803,0.786,(7.0695)+(-0.1169)His+(-0.0027)Ala+(0.0034)Arg+(-0.0772)Met+(0.0205)Leu;0.765,0.793,0.741,0.722,0.757,0.806,0.708,0.748,(6.8241)+(-0.1261)His+(0.0176)Thr+(-0.0245)Cit+(-0.0103)Arg+(0.0039)Pro;0.765,0.790,0.754,0.727,0.752,0.805,0.788,0.768,(6.8688)+(-0.1188)His+(-0.0220)Cit+(0.0007)Arg+(-0.0187)Val+(0.0421)Leu;0.765,0.791,0.748,0.741,0.747,0.799,0.732,0.755,(6.8019)+(-0.0234)Asn+(0.0033)Gly+(-0.1127)His+(0.0071)Pro+(-0.0120)Tyr;0.765,0.788,0.765,0.760,0.755,

0.819,0.760,0.774,(6.8648)+(-0.0289)Asn+(0.0033)Gly+(-0.1160)His+(-0.0024)Ala+(0.0074)Lys;0.765,0.802,0.683,0.661,0.651,0.782,0.735,0.707,(-2.2338)+(0.0300)Ser+(-0.0260)Lys+(0.1434)Ile+(-0.0829)Leu+(0.0480)Phe;0.765,0.789,0.744,0.723,0.756,0.805,0.728,0.753,(6.5412)+(-0.0239)Asn+(0.0053)Gly+(-0.1213)His+(-0.0355)Cit+(0.0158)Leu;0.765,0.796,0.732,0.746,0.738,0.794,0.636,0.728,(0.9522)+(0.0428)Ser+(-0.0856)Asn+(0.0080)Thr+(0.0093)Pro+(-0.2477)Met;0.765,0.791,0.725,0.713,0.662,0.804,0.831,0.753,(2.7693)+(-0.0015)Gly+(-0.0449)Val+(-0.0128)Lys+(0.1756)Ile+(-0.0265)Leu;0.765,0.791,0.764,0.753,0.765,0.830,0.742,0.773,(6.9063)+(0.0046)Gly+(-0.1141)His+(-0.0036)Ala+(-0.0391)Cit+(0.0063)Val;0.765,0.795,0.690,0.691,0.619,0.788,0.766,0.716,(0.6738)+(0.0156)Ser+(-0.0493)Tyr+(-0.0505)Val+(0.0111)Orn+(0.1480)Ile;0.765,0.792,0.768,0.746,0.768,0.812,0.792,0.780,(7.4192)+(-0.1030)His+(-0.0185)Cit+(-0.0214)Val+(-0.0977)Met+(0.0518)Leu;0.765,0.797,0.774,0.784,0.770,0.823,0.718,0.774,(1.8193)+(0.0487)Ser+(-0.0869)Asn+(-0.0070)Gly+(0.0125)Thr+(-0.2191)Met;0.765,0.794,0.793,0.774,0.782,0.843,0.828,0.807,(4.2403)+(-0.0091)Ala+(-0.0733)Cit+(-0.1635)Met+(-0.0075)Lys+(0.0750)Ile;0.765,0.799,0.744,0.742,0.783,0.831,0.603,0.740,(1.3087)+(0.0352)Ser+(-0.0953)Cit+(-0.0058)Arg+(-0.2450)Met+(0.0416)Orn;0.765,0.790,0.741,0.731,0.741,0.795,0.729,0.749,(6.4483)+(0.0028)Gly+(-0.1200)His+(0.0066)Pro+(-0.0148)Tyr+(0.0012)Val;0.765,0.800,0.758,0.755,0.728,0.815,0.787,0.771,(2.8384)+(0.0015)Gly+(-0.2458)Met+(0.0005)Lys+(0.1680)Ile+(-0.0812)Leu;0.765,0.796,0.775,0.777,0.705,0.839,0.871,0.798,(2.2917)+(0.0001)Gly+(-0.0083)Thr+(-0.0110)Ala+(0.1715)Ile+(-0.0869)Leu;0.765,0.793,0.713,0.697,0.655,0.803,0.814,0.742,(2.3109)+(-0.0463)Val+(0.0176)Orn+(-0.0161)Lys+(0.1723)Ile+(-0.0240)Leu;0.765,0.795,0.711,0.714,0.639,0.788,0.795,0.734,(2.2637)+(-0.0014)Thr+(-0.0485)Tyr+(-0.0517)Val+(0.0180)Orn+(0.1499)Ile;0.765,0.786,0.719,0.700,0.670,0.796,0.815,0

.745,(2.8035)+(-0.0014)Gln+(-0.0009)Thr+(-0.0607)Cit+(-0.0524)Val+(0.1530)Ile;0.765,0.795,0.750,0.752,0.744,0.791,0.728,0.754,(1.0726)+(0.0541)Ser+(-0.0756)Asn+(-0.0065)Gly+(0.0099)Pro+(-0.2320)Met;0.765,0.794,0.776,0.785,0.781,0.821,0.712,0.775,(2.6992)+(0.0489)Ser+(-0.0761)Asn+(-0.0048)Gly+(-0.0566)Cit+(-0.1626)Met;0.765,0.790,0.765,0.753,0.751,0.816,0.787,0.777,(6.8371)+(-0.1156)His+(-0.0055)Ala+(-0.0084)Arg+(0.0097)Pro+(0.0068)Lys;0.765,0.796,0.738,0.744,0.747,0.777,0.677,0.736,(0.0066)+(0.0460)Ser+(-0.1767)Asn+(-0.0768)Cit+(-0.0158)Leu+(0.0837)Phe;0.764,0.802,0.764,0.760,0.734,0.816,0.799,0.777,(3.0604)+(0.0003)Pro+(-0.2425)Met+(0.0007)Lys+(0.1672)Ile+(-0.0815)Leu;0.764,0.799,0.777,0.776,0.709,0.849,0.871,0.801,(2.7824)+(-0.0047)Thr+(-0.0107)Ala+(-0.0073)Lys+(0.1682)Ile+(-0.0819)Leu;0.764,0.799,0.731,0.725,0.686,0.837,0.764,0.753,(0.2537)+(0.0288)Ser+(-0.0126)Ala+(-0.0939)Cit+(-0.0362)Tyr+(0.0684)Ile;0.764,0.795,0.768,0.783,0.782,0.824,0.660,0.762,(2.6283)+(0.0425)Ser+(-0.0800)Asn+(-0.0629)Cit+(-0.1586)Met+(0.0003)Lys;0.764,0.803,0.797,0.807,0.807,0.779,0.759,0.788,(5.8989)+(-0.0002)Gly+(-0.0117)Arg+(0.0020)Lys+(0.0086)Leu+(-0.1514)Trp;0.764,0.800,0.741,0.737,0.708,0.848,0.743,0.759,(2.7751)+(0.0397)Ser+(-0.1944)Asn+(-0.0508)Val+(0.0345)Orn+(0.0712)Leu;0.764,0.790,0.776,0.764,0.767,0.829,0.787,0.787,(7.5960)+(-0.0145)Asn+(-0.0978)His+(-0.0057)Ala+(-0.0328)Cit+(0.0109)Pro;0.764,0.798,0.756,0.748,0.758,0.810,0.734,0.763,(6.6084)+(0.0039)Gly+(-0.1089)His+(0.0087)Pro+(0.0025)Tyr+(-0.0988)Met;0.764,0.794,0.753,0.739,0.764,0.769,0.758,0.757,(0.2597)+(0.0035)Gly+(-0.3263)Met+(-0.0132)Lys+(0.0510)Ile+(0.0761)Phe;0.764,0.791,0.719,0.704,0.669,0.793,0.810,0.744,(0.9053)+(-0.0758)Cit+(-0.0393)Val+(0.1835)Ile+(-0.0499)Leu+(0.0436)Phe;0.764,0.797,0.756,0.750,0.758,0.811,0.730,0.762,(6.7167)+(0.0039)Gly+(-0.1078)His+(-0.0024)Arg+(0.0088)Pro+(-0.0920)Met;0.764,0.786,0.729,0.703,0.744,0.797,0.719,0.741,(5.9321

)+(0.0048)Gly+(-0.1281)His+(-0.0356)Cit+(0.0037)Pro+(0.0134)Leu;0.764,0.788,0.738,0.721,0.739,0.794,0.737,0.748,(6.0045)+(0.0030)Gly+(-0.1274)His+(0.0052)Pro+(-0.0005)Val+(0.0030)Lys;0.764,0.794,0.740,0.702,0.768,0.814,0.732,0.754,(6.1967)+(-0.1241)His+(-0.0619)Cit+(-0.0008)Arg+(0.0475)Orn+(0.0061)Leu;0.764,0.791,0.697,0.695,0.627,0.792,0.780,0.724,(0.5485)+(0.0223)Ser+(-0.0088)Thr+(-0.0398)Tyr+(-0.0486)Val+(0.1482)Ile;0.764,0.790,0.763,0.754,0.756,0.822,0.758,0.772,(6.8574)+(0.0034)Gly+(-0.1196)His+(-0.0027)Ala+(-0.0042)Arg+(0.0042)Val;0.764,0.793,0.762,0.744,0.754,0.809,0.795,0.775,(6.8599)+(-0.1245)His+(-0.0035)Ala+(-0.0097)Tyr+(0.0031)Lys+(0.0162)Leu;0.764,0.805,0.757,0.759,0.738,0.824,0.741,0.765,(3.4848)+(0.0186)Thr+(-0.0219)Arg+(-0.2652)Met+(0.1693)Ile+(-0.0818)Leu;0.764,0.795,0.747,0.758,0.712,0.811,0.742,0.756,(3.9467)+(-0.0636)Cit+(-0.0118)Arg+(-0.0458)Tyr+(0.1658)Ile+(-0.0862)Leu;0.764,0.802,0.806,0.823,0.812,0.794,0.756,0.796,(6.4356)+(-0.0004)Gly+(-0.0086)Arg+(-0.0014)Tyr+(0.0001)Val+(-0.1393)Trp;0.764,0.796,0.768,0.783,0.782,0.824,0.662,0.763,(2.6206)+(0.0424)Ser+(-0.0809)Asn+(-0.0644)Cit+(0.0021)Arg+(-0.1593)Met;0.764,0.795,0.758,0.777,0.732,0.790,0.737,0.759,(-0.3058)+(0.0442)Ser+(-0.2062)Asn+(0.0019)Gln+(-0.0203)Val+(0.0964)Phe;0.764,0.791,0.766,0.745,0.760,0.816,0.798,0.780,(6.8321)+(-0.1252)His+(-0.0038)Ala+(-0.0031)Arg+(0.0030)Lys+(0.0152)Leu;0.764,0.802,0.747,0.769,0.755,0.735,0.684,0.736,(0.0841)+(0.0264)Thr+(0.0104)Pro+(-0.0195)Val+(-0.4003)Met+(0.1263)Phe;0.764,0.786,0.675,0.646,0.622,0.787,0.781,0.709,(0.9798)+(0.0322)Ser+(-0.0055)Gln+(-0.0121)Thr+(-0.0532)Val+(0.1557)Ile;0.764,0.794,0.762,0.763,0.687,0.839,0.859,0.787,(1.6766)+(-0.0126)Ala+(0.0032)Pro+(0.0026)Orn+(0.1626)Ile+(-0.0853)Leu;0.764,0.787,0.753,0.731,0.750,0.802,0.784,0.767,(7.0684)+(-0.1160)His+(-0.0213)Cit+(-0.0082)Tyr+(-0.0179)Val+(0.0421)Leu;0.764,0.794,0.796,0.790,0.761,0.842,0.851,0.811,(1.4244)+(0.0047)Gln

+(-0.0076)Ala+(-0.2320)Met+(-0.0113)Lys+(0.0708)Ile;0.764,0.793,0.746,0.730,0.761,0.811,0.710,0.753,(6.9948)+(-0.1269)His+(0.0188)Thr+(-0.0252)Cit+(-0.0097)Arg+(0.0010)Val;0.764,0.797,0.744,0.745,0.780,0.829,0.607,0.740,(0.9623)+(0.0340)Ser+(0.0008)Gln+(-0.0995)Cit+(-0.2563)Met+(0.0400)Orn;0.764,0.794,0.772,0.788,0.783,0.835,0.664,0.767,(2.9820)+(0.0416)Ser+(-0.0826)Asn+(-0.0601)Cit+(-0.0025)Val+(-0.1434)Met;0.764,0.789,0.776,0.757,0.777,0.823,0.792,0.787,(7.5022)+(-0.1087)His+(-0.0032)Ala+(-0.0291)Cit+(-0.0648)Met+(0.0206)Leu;0.764,0.794,0.769,0.763,0.763,0.830,0.753,0.777,(6.9311)+(0.0037)Gly+(-0.1148)His+(-0.0019)Ala+(0.0052)Val+(-0.0556)Met;0.764,0.789,0.722,0.705,0.661,0.801,0.835,0.751,(3.1179)+(-0.0012)Gly+(-0.0009)Gln+(-0.0528)Val+(-0.0143)Lys+(0.1585)Ile;0.764,0.793,0.756,0.732,0.762,0.797,0.775,0.767,(6.5942)+(0.0164)Asn+(-0.1175)His+(0.0065)Pro+(-0.1250)Met+(0.0161)Leu;0.764,0.794,0.775,0.754,0.774,0.819,0.802,0.787,(7.1390)+(-0.1161)His+(-0.0028)Ala+(0.0049)Tyr+(-0.0790)Met+(0.0199)Leu;0.764,0.790,0.769,0.766,0.760,0.824,0.756,0.777,(7.2902)+(-0.0159)Asn+(0.0032)Gly+(-0.1099)His+(-0.0018)Ala+(-0.0028)Arg;0.764,0.792,0.740,0.724,0.741,0.797,0.739,0.750,(6.4024)+(0.0035)Gly+(-0.1293)His+(-0.0038)Arg+(-0.0108)Tyr+(0.0158)Leu;0.764,0.797,0.771,0.798,0.770,0.843,0.649,0.765,(2.5586)+(0.0366)Ser+(-0.0981)Asn+(0.0129)Thr+(-0.0064)Val+(-0.1802)Met;0.764,0.791,0.730,0.716,0.667,0.810,0.841,0.758,(2.9304)+(-0.0013)Gly+(-0.0038)Pro+(-0.0524)Val+(-0.0146)Lys+(0.1623)Ile;0.764,0.792,0.714,0.696,0.655,0.801,0.824,0.744,(3.0793)+(-0.0015)Gln+(0.0039)Thr+(-0.0533)Val+(-0.0157)Lys+(0.1599)Ile;0.764,0.793,0.731,0.730,0.662,0.796,0.828,0.754,(3.7897)+(-0.0025)Gly+(-0.0374)Tyr+(-0.0497)Val+(-0.0096)Lys+(0.1575)Ile;0.763,0.801,0.801,0.820,0.808,0.789,0.745,0.791,(6.2075)+(-0.0125)Arg+(-0.0032)Tyr+(-0.0012)Val+(0.0055)Lys+(-0.1427)Trp;0.763,0.793,0.746,0.731,0.760,0.811,0.709,0.753,(7.0041)+(-0.1263)His+(0.01

87)Thr+(-0.0238)Cit+(-0.0106)Arg+(0.0012)Lys;0.763,0.792,0.720,0.704,0.664,0.792,0.828,0.747,(1.3037)+(-0.0039)Thr+(-0.0659)Cit+(-0.0536)Val+(0.1479)Ile+(0.0296)Phe;0.763,0.791,0.767,0.762,0.751,0.817,0.782,0.778,(7.2495)+(-0.1063)His+(-0.0048)Ala+(-0.0038)Arg+(0.0106)Pro+(-0.0096)Tyr;0.763,0.803,0.776,0.783,0.757,0.845,0.747,0.783,(2.5135)+(0.0026)Gln+(0.0286)Thr+(-0.0467)Val+(-0.3498)Met+(0.0794)Leu;0.763,0.788,0.713,0.719,0.641,0.787,0.797,0.736,(2.5076)+(0.0015)Thr+(-0.0015)Pro+(-0.0452)Tyr+(-0.0512)Val+(0.1546)Ile;0.763,0.799,0.766,0.782,0.728,0.818,0.763,0.773,(-0.3104)+(0.0431)Ser+(-0.1705)Asn+(-0.0068)Ala+(-0.0116)Leu+(0.0791)Phe;0.763,0.799,0.759,0.756,0.739,0.818,0.766,0.770,(3.5519)+(-0.0182)Arg+(-0.2148)Met+(0.0182)Orn+(0.1690)Ile+(-0.0858)Leu;0.763,0.796,0.713,0.692,0.656,0.807,0.820,0.744,(2.3504)+(0.0003)Thr+(-0.0532)Val+(0.0195)Orn+(-0.0185)Lys+(0.1556)Ile;0.763,0.794,0.772,0.775,0.720,0.844,0.821,0.790,(3.1079)+(-0.0104)Ala+(-0.0286)Arg+(0.0179)Orn+(0.1748)Ile+(-0

.0922)Leu;0.763,0.796,0.770,0.773,0.723,0.799,0.839,0.783,(0.7688)+(-0.1389)Asn+(0.0039)Gln+(0.1405)Ile+(-0.0911)Leu+(0.0533)Phe;0.763,0.789,0.743,0.729,0.744,0.796,0.738,0.752,(6.3218)+(-0.0340)Asn+(0.0038)Gly+(-0.1215)His+(0.0055)Pro+(0.0051)Lys;0.763,0.788,0.738,0.719,0.748,0.799,0.725,0.748,(6.4096)+(0.0045)Gly+(-0.1245)His+(-0.0340)Cit+(-0.0104)Tyr+(0.0170)Leu;0.763,0.797,0.786,0.778,0.771,0.800,0.830,0.795,(0.8851)+(-0.0081)Ala+(-0.0077)Arg+(-0.2750)Met+(0.0543)Ile+(0.0681)Phe;0.763,0.792,0.718,0.692,0.684,0.815,0.787,0.745,(1.7663)+(-0.0924)Cit+(-0.0062)Pro+(-0.0526)Val+(0.0394)Orn+(0.1494)Ile;0.763,0.794,0.758,0.737,0.764,0.793,0.778,0.768,(6.5457)+(-0.1183)His+(0.0066)Pro+(-0.1287)Met+(0.0068)Lys+(0.0128)Leu;0.763,0.791,0.761,0.742,0.770,0.769,0.785,0.767,(0.8704)+(-0.3090)Met+(0.0086)Orn+(-0.0140)Lys+(0.0466)Ile+(0.0701)Phe;0.763,0.804,0.814,0.830,0.814,0.810,0.776,0.807,(6.

3418)+(-0.0034)Ala+(-0.0113)Arg+(0.0039)Tyr+(0.0059)Lys+(-0.1406)Trp;0.763,0.799,0.724,0.725,0.739,0.765,0.663,0.723,(-0.2857)+(0.0469)Ser+(-0.1728)Asn+(-0.0745)Cit+(-0.0085)Arg+(0.0653)Phe;0.763,0.796,0.768,0.771,0.764,0.817,0.732,0.771,(1.2273)+(0.0515)Ser+(-0.0878)Asn+(-0.0068)Gly+(-0.1975)Met+(0.0217)Orn;0.763,0.796,0.737,0.726,0.765,0.816,0.651,0.739,(1.7193)+(0.0410)Ser+(-0.1496)Asn+(-0.0079)Thr+(-0.1022)Cit+(0.0447)Orn;0.763,0.794,0.775,0.780,0.717,0.844,0.835,0.794,(3.2647)+(-0.0112)Ala+(-0.0248)Arg+(0.0041)Pro+(0.1717)Ile+(-0.0888)Leu;0.763,0.794,0.772,0.759,0.747,0.850,0.803,0.790,(3.2656)+(-0.0786)Asn+(0.0063)Gly+(-0.0118)Ala+(-0.0936)Cit+(0.0634)Ile;0.763,0.795,0.774,0.755,0.770,0.817,0.799,0.785,(6.9456)+(-0.1195)His+(-0.0027)Ala+(-0.0903)Met+(0.0065)Lys+(0.0180)Leu;0.763,0.789,0.692,0.667,0.620,0.785,0.844,0.729,(-0.8845)+(0.0296)Ser+(-0.0098)Gly+(-0.0575)Val+(0.1485)Ile+(0.0167)Phe;0.763,0.794,0.760,0.738,0.765,0.798,0.779,0.770,(6.7543)+(-0.1151)His+(0.0019)Arg+(0.0063)Pro+(-0.1123)Met+(0.0154)Leu;0.763,0.791,0.773,0.773,0.766,0.825,0.753,0.779,(7.2499)+(-0.0071)Asn+(0.0032)Gly+(-0.1073)His+(-0.0012)Ala+(-0.0411)Met;0.763,0.787,0.731,0.721,0.678,0.812,0.806,0.754,(2.5436)+(-0.0673)Cit+(-0.0050)Pro+(-0.0384)Val+(0.1880)Ile+(-0.0424)Leu;0.763,0.790,0.719,0.705,0.658,0.801,0.821,0.746,(2.8693)+(-0.0009)Gln+(-0.0451)Val+(-0.0124)Lys+(0.1762)Ile+(-0.0261)Leu;0.763,0.789,0.704,0.685,0.631,0.799,0.840,0.739,(-0.1315)+(0.0295)Ser+(-0.0094)Gly+(-0.0049)Pro+(-0.0561)Val+(0.1566)Ile;0.763,0.796,0.765,0.762,0.724,0.797,0.837,0.780,(1.8099)+(-0.1110)Asn+(-0.0052)Pro+(0.1511)Ile+(-0.0935)Leu+(0.0583)Phe;0.763,0.789,0.768,0.743,0.766,0.820,0.798,0.782,(7.0325)+(-0.1173)His+(-0.0045)Ala+(-0.0355)Cit+(0.0048)Arg+(0.0186)Leu;0.763,0.795,0.771,0.770,0.703,0.838,0.866,0.794,(2.1736)+(-0.0104)Thr+(-0.0110)Ala+(0.0112)Orn+(0.1693)Ile+(-0.0877)Leu;0.763,0.792,0.763,0.744,0.773,0.766,0.791,0.769,(0.8641)+(0

.0028)Pro+(-0.3204)Met+(-0.0127)Lys+(0.0455)Ile+(0.0733)Phe;0.763,0.795,0.782,0.772,0.763,0.800,0.835,0.793,(0.5330)+(-0.0083)Ala+(-0.2873)Met+(0.0029)Orn+(0.0537)Ile+(0.0664)Phe;0.763,0.787,0.767,0.745,0.766,0.819,0.792,0.780,(7.1060)+(-0.1174)His+(-0.0043)Ala+(-0.0314)Cit+(0.0019)Lys+(0.0172)Leu;0.763,0.787,0.736,0.712,0.750,0.800,0.724,0.746,(6.1669)+(0.0048)Gly+(-0.1277)His+(-0.0349)Cit+(-0.0004)Lys+(0.0159)Leu;0.763,0.786,0.722,0.710,0.671,0.808,0.801,0.747,(2.5911)+(-0.0005)Gln+(-0.0671)Cit+(-0.0399)Val+(0.1806)Ile+(-0.0395)Leu;0.763,0.802,0.795,0.807,0.803,0.778,0.760,0.787,(6.0609)+(-0.0003)Gly+(-0.0093)Arg+(-0.0059)Tyr+(0.0103)Leu+(-0.1478)Trp;0.763,0.794,0.779,0.784,0.722,0.849,0.833,0.797,(3.2598)+(0.0012)Thr+(-0.0103)Ala+(-0.0251)Arg+(0.1770)Ile+(-0.0902)Leu;0.763,0.792,0.808,0.802,0.774,0.856,0.864,0.824,(2.1475)+(-0.1029)Asn+(0.0068)Gln+(-0.0119)Ala+(-0.0951)Cit+(0.0570)Ile;0.763,0.790,0.733,0.710,0.742,0.794,0.732,0.744,(5.9965)+(0.0040)Gly+(-0.1319)His+(-0.0065)Arg+(0.0039)Pro+(0.0119)Leu;0.763,0.789,0.737,0.717,0.743,0.797,0.735,0.748,(6.1017)+(0.0039)Gly+(-0.1337)His+(-0.0066)Arg+(0.0023)Lys+(0.0132)Leu;0.763,0.789,0.725,0.710,0.664,0.807,0.834,0.754,(3.0191)+(-0.0008)Gln+(-0.0037)Pro+(-0.0525)Val+(-0.0142)Lys+(0.1630)Ile;0.763,0.795,0.769,0.765,0.739,0.835,0.796,0.784,(4.1801)+(-0.0740)Asn+(-0.0732)Cit+(-0.0038)Pro+(0.1575)Ile+(-0.0833)Leu;0.763,0.786,0.666,0.640,0.613,0.784,0.765,0.700,(1.1526)+(0.0269)Ser+(-0.0061)Gln+(-0.0038)Pro+(-0.0555)Val+(0.1618)Ile;0.763,0.797,0.735,0.723,0.682,0.840,0.801,0.761,(-0.0489)+(0.0415)Ser+(-0.1484)Asn+(-0.0102)Ala+(0.0057)Orn+(0.0512)Ile;0.763,0.791,0.722,0.719,0.656,0.799,0.810,0.746,(3.5288)+(-0.0005)Gln+(-0.0354)Tyr+(-0.0496)Val+(-0.0102)Lys+(0.1577)Ile;0.763,0.789,0.771,0.758,0.761,0.827,0.788,0.783,(7.2997)+(-0.1020)His+(-0.0059)Ala+(-0.0341)Cit+(0.0011)Arg+(0.0108)Pro;0.763,0.792,0.778,0.764,0.755,0.830,0.830,0.795,(2.9086)+(-0.0078)Ala+

(-0.2050)Met+(0.0157)Orn+(-0.0111)Lys+(0.0663)Ile;0.763,0.787,0.767,0.747,0.766,0.816,0.789,0.780,(7.3029)+(-0.1147)His+(-0.0040)Ala+(-0.0309)Cit+(-0.0053)Tyr+(0.0184)Leu;0.763,0.803,0.752,0.749,0.752,0.831,0.700,0.758,(1.5316)+(0.0396)Ser+(-0.0541)Cit+(-0.0334)Val+(-0.2737)Met+(0.0659)Leu;0.763,0.794,0.733,0.747,0.709,0.773,0.718,0.737,(0.0822)+(0.0469)Ser+(-0.2065)Asn+(0.0079)Pro+(-0.0231)Val+(0.0953)Phe;0.763,0.788,0.736,0.728,0.731,0.789,0.729,0.744,(6.2457)+(0.0025)Gly+(-0.1229)His+(0.0067)Pro+(-0.0185)Tyr+(0.0050)Lys;0.763,0.798,0.731,0.713,0.767,0.759,0.682,0.730,(-0.2185)+(0.0072)Gly+(-0.0855)Cit+(-0.3453)Met+(0.0497)Ile+(0.0839)Phe;0.762,0.792,0.712,0.685,0.676,0.811,0.789,0.740,(1.7036)+(-0.0007)Gly+(-0.0914)Cit+(-0.0531)Val+(0.0368)Orn+(0.1432)Ile;0.762,0.800,0.740,0.728,0.681,0.843,0.818,0.768,(-0.2405)+(0.0448)Ser+(-0.1340)Asn+(-0.0074)Thr+(-0.0099)Ala+(0.0560)Ile;0.762,0.800,0.801,0.819,0.808,0.785,0.749,0.790,(6.2468)+(-0.0005)Gly+(-0.0120)Arg+(-0.0043)Tyr+(0.0051)Lys+(-0.1439)Trp;0.762,0.788,0.761,0.755,0.751,0.816,0.758,0.770,(6.6184)+(0.0025)Gly+(-0.1202)His+(-0.0024)Ala+(-0.0045)Tyr+(0.0061)Lys;0.762,0.789,0.757,0.749,0.755,0.811,0.743,0.764,(6.9094)+(-0.0176)Asn+(0.0033)Gly+(-0.1179)His+(-0.0050)Tyr+(0.0025)Val;0.762,0.794,0.741,0.738,0.752,0.806,0.681,0.744,(1.2080)+(0.0483)Ser+(-0.0054)Gly+(-0.0664)Cit+(0.0118)Pro+(-0.2830)Met;0.762,0.789,0.766,0.752,0.755,0.823,0.785,0.779,(7.0074)+(-0.1074)His+(-0.0062)Ala+(-0.0333)Cit+(0.0106)Pro+(0.0048)Lys;0.762,0.797,0.773,0.763,0.786,0.773,0.776,0.774,(-1.5228)+(0.0067)Gln+(-0.0849)Cit+(-0.3661)Met+(0.0459)Ile+(0.0778)Phe;0.762,0.801,0.775,0.777,0.752,0.849,0.763,0.786,(3.5786)+(0.0309)Thr+(-0.0032)Ala+(-0.0456)Val+(-0.3177)Met+(0.0816)Leu;0.762,0.801,0.767,0.766,0.754,0.837,0.746,0.776,(3.5864)+(-0.0012)Gly+(0.0315)Thr+(-0.0471)Val+(-0.3375)Met+(0.0807)Leu;0.762,0.794,0.737,0.745,0.752,0.819,0.626,0.735,(1.6627)+(0.0395)Ser+(-0.0688)Cit

+(0.0136)Pro+(-0.0053)Val+(-0.2686)Met;0.762,0.788,0.747,0.736,0.756,0.806,0.715,0.753,(6.8236)+(-0.0279)Asn+(0.0048)Gly+(-0.1092)His+(-0.0341)Cit+(0.0064)Pro;0.762,0.788,0.773,0.761,0.765,0.817,0.792,0.784,(7.1720)+(-0.0190)Asn+(-0.1163)His+(-0.0028)Ala+(0.0013)Val+(0.0064)Lys;0.762,0.786,0.728,0.717,0.676,0.810,0.808,0.753,(2.5839)+(-0.0035)Thr+(-0.0662)Cit+(-0.0388)Val+(0.1814)Ile+(-0.0412)Leu;0.762,0.797,0.770,0.790,0.764,0.848,0.670,0.768,(2.3158)+(0.0382)Ser+(-0.1055)Asn+(-0.0095)Val+(-0.1445)Met+(0.0298)Orn;0.762,0.799,0.708,0.683,0.667,0.801,0.791,0.735,(-0.1595)+(0.0393)Ser+(-0.0090)Gly+(-0.0222)Lys+(0.1428)Ile+(-0.0749)Leu;0.762,0.793,0.763,0.779,0.780,0.845,0.630,0.758,(2.2439)+(0.0315)Ser+(0.0134)Thr+(-0.0036)Ala+(-0.0725)Cit+(-0.2350)Met;0.762,0.783,0.711,0.704,0.646,0.791,0.809,0.738,(2.3103)+(-0.0020)Gln+(-0.0053)Pro+(-0.0450)Val+(0.1869)Ile+(-0.0358)Leu;0.762,0.790,0.720,0.709,0.658,0.803,0.822,0.748,(2.5302)+(-0.0001)Thr+(-0.0447)Val+(-0.0133)Lys+(0.1756)Ile+(-0.0267)Leu;0.762,0.796,0.769,0.783,0.784,0.827,0.659,0.763,(2.5251)+(0.0429)Ser+(-0.0789)Asn+(-0.0635)Cit+(0.0049)Tyr+(-0.1676)Met;0.762,0.795,0.722,0.719,0.734,0.762,0.677,0.723,(-0.4209)+(0.0475)Ser+(-0.1737)Asn+(-0.0041)Thr+(-0.0790)Cit+(0.0649)Phe;0.762,0.804,0.757,0.759,0.727,0.851,0.749,0.771,(0.8802)+(0.0381)Ser+(-0.0025)Ala+(-0.0373)Val+(-0.2721)Met+(0.0724)Leu;0.762,0.796,0.771,0.772,0.700,0.837,0.871,0.795,(2.3154)+(-0.0089)Thr+(-0.0119)Ala+(0.0042)Pro+(0.1661)Ile+(-0.0858)Leu;0.762,0.801,0.765,0.765,0.755,0.838,0.737,0.774,(3.3781)+(0.0305)Thr+(0.0038)Tyr+(-0.0475)Val+(-0.3434)Met+(0.0813)Leu;0.762,0.795,0.779,0.783,0.722,0.848,0.836,0.797,(3.3562)+(-0.0102)Ala+(-0.0235)Arg+(-0.0012)Lys+(0.1764)Ile+(-0.0891)Leu;0.762,0.795,0.733,0.710,0.694,0.835,0.801,0.760,(-0.7302)+(0.0346)Ser+(-0.0122)Thr+(-0.0141)Ala+(-0.0947)Cit+(0.0680)Ile;0.762,0.794,0.779,0.802,0.763,0.845,0.702,0.778,(1.7463)+(0.0414)Ser+(-0.0852)Asn+(-0.0

025)Ala+(-0.1542)Met+(0.0005)Lys;0.762,0.790,0.749,0.733,0.746,0.787,0.770,0.759,(6.8992)+(-0.0125)Asn+(-0.1201)His+(0.0053)Pro+(-0.0191)Tyr+(0.0120)Leu;0.762,0.785,0.714,0.695,0.667,0.795,0.804,0.740,(2.7302)+(0.0011)Gly+(-0.0018)Gln+(-0.0625)Cit+(-0.0524)Val+(0.1533)Ile;0.762,0.798,0.767,0.766,0.739,0.821,0.784,0.778,(3.7523)+(-0.0013)Asn+(-0.0136)Arg+(-0.2111)Met+(0.1704)Ile+(-0.0834)Leu;0.762,0.789,0.775,0.764,0.768,0.821,0.788,0.785,(7.3945)+(-0.0076)Asn+(-0.1136)His+(-0.0025)Ala+(-0.0037)Tyr+(0.0033)Val;0.762,0.794,0.737,0.743,0.754,0.810,0.632,0.735,(0.5280)+(0.0389)Ser+(0.0021)Gln+(-0.0773)Cit+(0.0116)Pro+(-0.2924)Met;0.762,0.789,0.724,0.707,0.669,0.798,0.827,0.750,(1.1684)+(-0.0670)Cit+(-0.0053)Pro+(-0.0538)Val+(0.1531)Ile+(0.0322)Phe;0.762,0.790,0.767,0.752,0.775,0.768,0.791,0.772,(1.0434)+(-0.0073)Asn+(-0.3036)Met+(-0.0124)Lys+(0.0479)Ile+(0.0719)Phe;0.762,0.790,0.771,0.762,0.759,0.824,0.780,0.781,(7.4599)+(-0.0991)His+(-0.0055)Ala+(-0.0324)Cit+(0.0114)Pro+(-0.0084)Tyr;0.762,0.786,0.671,0.660,0.600,0.775,0.774,0.702,(-1.7918)+(0.0175)Ser+(-0.0446)Val+(0.1778)Ile+(-0.0435)Leu+(0.0293)Phe;0.761,0.786,0.748,0.737,0.751,0.800,0.730,0.755,(6.7018)+(-0.0222)Asn+(0.0039)Gly+(-0.1159)His+(-0.0051)Arg+(0.0061)Pro;0.761,0.794,0.765,0.757,0.738,0.836,0.793,0.781,(4.3043)+(-0.0699)Asn+(-0.0726)Cit+(-0.0041)Lys+(0.1508)Ile+(-0.0803)Leu;0.761,0.788,0.775,0.764,0.768,0.821,0.789,0.786,(7.4055)+(-0.0071)Asn+(-0.1138)His+(-0.0026)Ala+(-0.0018)Arg+(0.0030)Val;0.761,0.796,0.770,0.795,0.770,0.762,0.712,0.760,(0.2696)+(0.0283)Thr+(-0.0032)Ala+(-0.0152)Val+(-0.3513)Met+(0.1252)Phe;0.761,0.797,0.741,0

.745,0.692,0.810,0.780,0.757,(-0.6142)+(0.0437)Ser+(-0.1728)Asn+(-0.0108)Ala+(0.0097)Pro+(0.0628)Phe;0.761,0.795,0.748,0.750,0.707,0.786,0.800,0.761,(1.4046)+(-0.1247)Asn+(0.0030)Gly+(0.1425)Ile+(-0.0916)Leu+(0.0580)Phe;0.761,0.792,0.763,0.752,0.763,0.804,0.763,0.770,(6.9944)

+(0.0064)Asn+(-0.1078)His+(0.0081)Pro+(0.0008)Val+(-0.0933)Met;0.761,0.788,0.741,0.724,0.739,0.781,0.762,0.752,(6.5470)+(-0.1258)His+(0.0052)Pro+(-0.0223)Tyr+(0.0030)Lys+(0.0111)Leu;0.761,0.790,0.762,0.752,0.732,0.814,0.817,0.779,(2.1110)+(0.0024)Gly+(-0.0101)Ala+(0.0093)Pro+(-0.2502)Met+(0.0610)Ile;0.761,0.793,0.762,0.756,0.761,0.819,0.742,0.769,(6.8262)+(0.0009)Asn+(0.0037)Gly+(-0.1160)His+(0.0042)Val+(-0.0669)Met;0.761,0.792,0.761,0.739,0.774,0.799,0.768,0.770,(7.0850)+(-0.1087)His+(-0.0258)Cit+(0.0064)Pro+(-0.1053)Met+(0.0153)Leu;0.761,0.795,0.769,0.795,0.766,0.826,0.664,0.763,(0.7218)+(0.0374)Ser+(-0.1026)Asn+(0.0031)Gln+(0.0098)Thr+(-0.2145)Met;0.761,0.789,0.757,0.748,0.757,0.811,0.739,0.764,(6.9260)+(-0.0164)Asn+(0.0036)Gly+(-0.1181)His+(-0.0038)Arg+(0.0021)Val;0.761,0.792,0.725,0.724,0.658,0.800,0.811,0.748,(3.3573)+(-0.0013)Pro+(-0.0347)Tyr+(-0.0494)Val+(-0.0107)Lys+(0.1586)Ile;0.761,0.796,0.739,0.729,0.683,0.841,0.809,0.765,(-0.1950)+(0.0411)Ser+(-0.1496)Asn+(0.0008)Gln+(-0.0101)Ala+(0.0527)Ile;0.761,0.795,0.789,0.799,0.774,0.773,0.808,0.789,(1.6498)+(-0.0056)Tyr+(-0.0392)Val+(-0.3129)Met+(0.0552)Leu+(0.1080)Phe;0.761,0.789,0.730,0.746,0.699,0.787,0.713,0.736,(3.4572)+(-0.0305)Arg+(-0.0513)Tyr+(0.0235)Orn+(0.1645)Ile+(-0.0923)Leu;0.761,0.788,0.767,0.762,0.759,0.823,0.754,0.775,(7.0619)+(0.0030)Gly+(-0.1141)His+(-0.0020)Ala+(-0.0043)Arg+(0.0020)Tyr;0.761,0.787,0.788,0.805,0.785,0.779,0.760,0.782,(2.1976)+(-0.0686)Asn+(-0.0188)Val+(-0.2109)Met+(0.0318)Orn+(0.1058)Phe;0.761,0.785,0.722,0.703,0.672,0.804,0.817,0.749,(2.7723)+(-0.0012)Gln+(-0.0607)Cit+(-0.0035)Pro+(-0.0522)Val+(0.1565)Ile;0.761,0.784,0.726,0.709,0.674,0.807,0.820,0.753,(2.3417)+(-0.0015)Thr+(-0.0626)Cit+(-0.0038)Pro+(-0.0517)Val+(0.1550)Ile;0.761,0.796,0.792,0.817,0.771,0.850,0.727,0.791,(0.8852)+(0.0387)Ser+(-0.0979)Asn+(0.0035)Gln+(-0.0025)Ala+(-0.1623)Met;0.761,0.795,0.754,0.763,0.744,0.762,0.745,0.754,(0.0087)+(0.0215)Thr+(

-0.0088)Ala+(0.0119)Pro+(-0.3613)Met+(0.0975)Phe;0.761,0.785,0.721,0.706,0.668,0.801,0.815,0.748,(2.1935)+(0.0006)Gly+(-0.0029)Thr+(-0.0640)Cit+(-0.0517)Val+(0.1507)Ile;0.761,0.787,0.754,0.743,0.753,0.803,0.746,0.761,(6.6422)+(-0.0302)Asn+(0.0035)Gly+(-0.1207)His+(0.0003)Val+(0.0061)Lys;0.761,0.792,0.756,0.781,0.771,0.822,0.611,0.746,(1.8495)+(0.0393)Ser+(-0.0829)Asn+(0.0137)Thr+(-0.0118)Arg+(-0.2060)Met;0.761,0.787,0.772,0.770,0.769,0.832,0.739,0.778,(7.5224)+(-0.0189)Asn+(0.0042)Gly+(-0.1019)His+(-0.0021)Ala+(-0.0333)Cit;0.761,0.798,0.764,0.768,0.734,0.815,0.779,0.774,(3.9433)+(-0.0137)Arg+(-0.0135)Tyr+(-0.1887)Met+(0.1710)Ile+(-0.0831)Leu;0.761,0.790,0.721,0.692,0.685,0.832,0.790,0.750,(-0.6236)+(0.0283)Ser+(-0.0170)Ala+(-0.1061)Cit+(0.0078)Pro+(0.0591)Ile;0.761,0.787,0.751,0.743,0.745,0.788,0.761,0.759,(6.9625)+(-0.0239)Asn+(-0.1151)His+(0.0069)Pro+(-0.0207)Tyr+(0.0070)Lys;0.761,0.782,0.721,0.715,0.651,0.797,0.828,0.748,(1.8093)+(-0.0023)Gly+(-0.0058)Pro+(-0.0443)Val+(0.1869)Ile+(-0.0380)Leu;0.761,0.791,0.791,0.775,0.780,0.833,0.828,0.804,(3.8155)+(-0.0048)Asn+(-0.0093)Ala+(-0.0747)Cit+(-0.1800)Met+(0.0710)Ile;0.761,0.795,0.761,0.749,0.763,0.797,0.767,0.769,(6.6229)+(0.0013)Asn+(-0.1129)His+(0.0082)Pro+(-0.1205)Met+(0.0095)Lys;0.761,0.794,0.742,0.739,0.770,0.823,0.637,0.742,(2.4096)+(0.0370)Ser+(-0.1560)Asn+(-0.1026)Cit+(0.0459)Orn+(-0.0083)Leu;0.761,0.795,0.754,0.749,0.716,0.783,0.825,0.768,(1.7622)+(-0.1173)Asn+(0.0064)Orn+(0.1396)Ile+(-0.0912)Leu+(0.0535)Phe;0.761,0.786,0.757,0.742,0.756,0.797,0.770,0.766,(6.8826)+(-0.0305)Asn+(-0.1152)His+(0.0060)Pro+(-0.0031)Val+(0.0061)Lys;0.761,0.786,0.744,0.769,0.701,0.795,0.733,0.749,(2.3758)+(0.0037)Gln+(-0.0319)Arg+(-0.0490)Tyr+(0.1683)Ile+(-0.0921)Leu;0.761,0.785,0.719,0.708,0.669,0.808,0.789,0.743,(2.2315)+(0.0008)Gly+(-0.0701)Cit+(-0.0392)Val+(0.1806)Ile+(-0.0407)Leu;0.761,0.794,0.759,0.738,0.764,0.797,0.776,0.769,(6.8807)+(-0.1138)His+(0.0066)Pro+

(-0.0046)Tyr+(-0.1029)Met+(0.0152)Leu;0.761,0.790,0.712,0.695,0.660,0.788,0.814,0.739,(1.0307)+(0.0005)Gly+(-0.0691)Cit+(-0.0538)Val+(0.1474)Ile+(0.0281)Phe;0.761,0.796,0.756,0.766,0.714,0.816,0.777,0.768,(-0.6490)+(0.0448)Ser+(-0.1659)Asn+(-0.0034)Thr+(-0.0078)Ala+(0.0681)Phe;0.761,0.802,0.793,0.806,0.802,0.776,0.753,0.784,(5.9535)+(-0.0110)Arg+(-0.0066)Tyr+(0.0024)Lys+(0.0092)Leu+(-0.1492)Trp;0.761,0.794,0.778,0.805,0.768,0.840,0.686,0.775,(1.9334)+(0.0418)Ser+(-0.0797)Asn+(-0.0024)Ala+(-0.0070)Arg+(-0.1451)Met;0.760,0.799,0.750,0.785,0.753,0.729,0.665,0.733,(0.2765)+(0.0304)Thr+(-0.0307)Tyr+(-0.0161)Val+(-0.3423)Met+(0.1358)Phe;0.760,0.793,0.762,0.754,0.774,0.822,0.715,0.766,(7.0053)+(0.0049)Gly+(-0.1105)His+(-0.0347)Cit+(0.0054)Val+(-0.0660)Met;0.760,0.789,0.757,0.747,0.753,0.796,0.763,0.765,(7.1991)+(-0.0159)Asn+(-0.1102)His+(0.0070)Pro+(-0.0151)Tyr+(-0.0001)Val;0.760,0.785,0.760,0.755,0.754,0.814,0.748,0.768,(6.7430)+(0.0031)Gly+(-0.1204)His+(-0.0025)Ala+(-0.0094)Arg+(0.0080)Lys;0.760,0.786,0.746,0.737,0.739,0.788,0.752,0.754,(6.6329)+(-0.1195)His+(0.0068)Pro+(-0.0208)Tyr+(-0.0005)Val+(0.0056)Lys;0.760,0.793,0.733,0.716,0.751,0.752,0.728,0.737,(0.0794)+(0.0257)Thr+(-0.3897)Met+(-0.0176)Lys+(0.0502)Ile+(0.0823)Phe;0.760,0.792,0.773,0.767,0.768,0.832,0.757,0.781,(6.9834)+(0.0036)Gly+(-0.1102)His+(-0.0015)Ala+(0.0126)Tyr+(-0.0659)Met;0.760,0.795,0.789,0.770,0.774,0.836,0.840,0.805,(3.4331)+(-0.0098)Ala+(-0.0847)Cit+(0.0102)Arg+(-0.1966)Met+(0.0735)Ile;0.760,0.789,0.752,0.728,0.755,0.796,0.778,0.764,(6.7259)+(-0.0142)Asn+(-0.1241)His+(-0.0028)Arg+(0.0038)Pro+(0.0102)Leu;0.760,0.795,0.734,0.725,0.767,0.813,0.632,0.734,(1.9190)+(0.0388)Ser+(-0.1549)Asn+(-0.0985)Cit+(-0.0067)Arg+(0.0418)Orn;0.760,0.789,0.691,0.708,0.634,0.770,0.709,0.705,(0.1285)+(0.0181)Ser+(-0.0023)Pro+(-0.0565)Tyr+(0.1567)Ile+(-0.0828)Leu;0.760,0.796,0.770,0.800,0.771,0.751,0.700,0.755,(-1.0511)+(0.0032)Gln+(0.0258)Thr+(-0.0167)Va

l+(-0.3896)Met+(0.1250)Phe;0.760,0.787,0.694,0.668,0.623,0.794,0.838,0.731,(-0.3247)+(0.0290)Ser+(-0.0102)Gly+(-0.0571)Val+(0.0070)Orn+(0.1499)Ile;0.760,0.794,0.736,0.721,0.764,0.808,0.667,0.740,(1.8496)+(0.0418)Ser+(-0.1601)Asn+(-0.0026)Gly+(-0.0990)Cit+(0.0404)Orn;0.760,0.788,0.653,0.616,0.606,0.782,0.754,0.690,(1.1913)+(0.0262)Ser+(-0.0071)Gln+(-0.0567)Val+(0.0127)Orn+(0.1564)Ile;0.760,0.786,0.754,0.745,0.763,0.814,0.720,0.760,(6.9876)+(-0.0201)Asn+(0.0047)Gly+(-0.1132)His+(-0.0343)Cit+(0.0033)Val;0.760,0.785,0.684,0.669,0.611,0.789,0.799,0.717,(-1.4498)+(0.0176)Ser+(-0.0073)Pro+(-0.0570)Val+(0.1537)Ile+(0.0238)Phe;0.760,0.796,0.756,0.782,0.766,0.744,0.672,0.741,(-0.0401)+(0.0009)Gly+(0.0275)Thr+(-0.0168)Val+(-0.3738)Met+(0.1265)Phe;0.760,0.792,0.777,0.770,0.740,0.821,0.837,0.792,(1.1633)+(0.0035)Gln+(-0.0099)Ala+(0.0087)Pro+(-0.2660)Met+(0.0589)Ile;0.760,0.789,0.770,0.755,0.781,0.833,0.738,0.777,(4.2459)+(-0.0829)Cit+(-0.0371)Val+(-0.2169)Met+(0.0545)Orn+(0.0568)Leu;0.760,0.789,0.752,0.727,0.756,0.793,0.780,0.764,(6.5796)+(-0.0196)Asn+(-0.1259)His+(0.0036)Pro+(0.0020)Lys+(0.0094)Leu;0.760,0.796,0.769,0.783,0.756,0.830,0.713,0.771,(1.0259)+(0.0437)Ser+(-0.0804)Asn+(-0.0034)Ala+(-0.1812)Met+(0.0112)Leu;0.760,0.803,0.760,0.754,0.731,0.828,0.784,0.774,(1.0181)+(0.0479)Ser+(-0.0068)Gly+(-0.0381)Val+(-0.2838)Met+(0.0707)Leu;0.760,0.787,0.688,0.671,0.619,0.784,0.809,0.720,(-1.5397)+(0.0270)Ser+(-0.0181)Thr+(-0.0535)Val+(0.1429)Ile+(0.0252)Phe;0.760,0.791,0.765,0.781,0.756,0.762,0.741,0.760,(0.8216)+(0.0101)Pro+(-0.0189)Val+(-0.3168)Met+(0.0230)Orn+(0.1079)Phe;0.760,0.789,0.777,0.767,0.770,0.823,0.784,0.786,(7.3332)+(0.0061)Asn+(-0.1121)His+(-0.0020)Ala+(0.0043)Val+(-0.0518)Met;0.760,0.786,0.748,0.740,0.744,0.799,0.738,0.755,(6.4410)+(0.0027)Gly+(-0.1258)His+(-0.0110)Tyr+(0.0021)Val+(0.0049)Lys;0.760,0.786,0.773,0.765,0.762,0.813,0.787,0.782,(7.3084)+(-0.0209)Asn+(-0.1134)His+(-0.0022)Ala+(-0.0068)Tyr+(

0.0078)Lys;0.760,0.794,0.763,0.751,0.763,0.799,0.767,0.770,(6.6686)+(-0.1109)His+(0.0087)Pro+(-0.0016)Val+(-0.1196)Met+(0.0101)Lys;0.760,0.788,0.754,0.738,0.750,0.790,0.775,0.763,(6.9540)+(-0.0151)Asn+(-0.1242)His+(-0.0158)Tyr+(0.0039)Lys+(0.0130)Leu;0.760,0.784,0.722,0.717,0.652,0.798,0.825,0.748,(1.7781)+(-0.0059)Thr+(-0.0052)Pro+(-0.0424)Val+(0.1873)Ile+(-0.0402)Leu;0.760,0.794,0.750,0.767,0.757,0.821,0.641,0.747,(1.1247)+(0.0402)Ser+(-0.0953)Asn+(0.0070)Thr+(-0.2092)Met+(0.0174)Orn;0.760,0.786,0.735,0.711,0.749,0.799,0.723,0.746,(6.1404)+(0.0047)Gly+(-0.1280)His+(-0.0350)Cit+(0.0001)Arg+(0.0157)Leu;0.760,0.790,0.773,0.762,0.744,0.818,0.833,0.789,(2.7190)+(-0.0106)Asn+(-0.0100)Ala+(0.0093)Pro+(-0.2304)Met+(0.0583)Ile;0.760,0.788,0.783,0.797,0.758,0.774,0.802,0.783,(-0.6398)+(0.0039)Gln+(-0.0084)Ala+(0.0122)Pro+(-0.3130)Met+(0.0898)Phe;0.760,0.794,0.780,0.802,0.767,0.847,0.704,0.780,(1.6711)+(0.0417)Ser+(-0.0841)Asn+(-0.0026)Ala+(0.0042)Tyr+(-0.1602)Met;0.760,0.797,0.749,0.765,0.730,0.831,0.686,0.753,(0.9142)+(0.0396)Ser+(-0.0069)Ala+(-0.0142)Arg+(0.0163)Pro+(-0.2389)Met;0.760,0.788,0.768,0.756,0.738,0.815,0.826,0.784,(2.3700)+(-0.0101)Ala+(0.0091)Pro+(-0.2443)Met+(0.0068)Orn+(0.0570)Ile;0.760,0.787,0.742,0.733,0.747,0.803,0.709,0.748,(6.6676)+(0.0038)Gly+(-0.1120)His+(-0.0322)Cit+(0.0071)Pro+(-0.0124)Tyr;0.760,0.783,0.695,0.680,0.632,0.769,0.812,0.723,(1.4476)+(-0.0033)Gln+(-0.0465)Val+(0.1791)Ile+(-0.0386)Leu+(0.0344)Phe;0.760,0.793,0.783,0.809,0.767,0.850,0.702,0.782,(2.3537)+(0.0401)Ser+(-0.0896)Asn+(-0.0018)Ala+(-0.0044)Val+(-0.1342)Met;0.760,0.791,0.767,0.766,0.761,0.822,0.745,0.774,(6.6534)+(0.0033)Gly+(-0.1148)His+(-0.0013)Ala+(-0.0842)Met+(0.0103)Lys;0.760,0.795,0.751,0.758,0.712,0.816,0.768,0.764,(-0.6200)+(0.0427)Ser+(-0.1739)Asn+(-0.0084)Ala+(0.0115)Orn+(0.0630)Phe;0.760,0.793,0.758,0.780,0.764,0.822,0.638,0.751,(1.6240)+(0.0394)Ser+(-0.0893)Asn+(0.0114)Thr+(-0.2051)Met+(-0.0016)Lys;0.

760,0.787,0.742,0.729,0.747,0.798,0.724,0.749,(6.4315)+(0.0034)Gly+(-0.1215)His+(-0.0071)Arg+(0.0058)Pro+(0.0002)Val;0.760,0.794,0.732,0.734,0.754,0.812,0.620,0.730,(1.3163)+(0.0413)Ser+(-0.0730)Cit+(0.0120)Pro+(-0.2687)Met+(-0.0032)Lys;0.760,0.797,0.740,0.740,0.777,0.825,0.603,0.736,(1.2940)+(0.0343)Ser
+(-0.0991)Cit+(-0.0050)Tyr+(-0.2436)Met+(0.0419)Orn;0.760,0.791,0.759,0.766,0.776,0.819,0.665,0.757,(1.8689)+(0.0411)Ser+(-0.0060)Gly+(0.0131)Thr+(-0.0638)Cit+(-0.2723)Met;0.760,0.788,0.727,0.743,0.673,0.768,0.770,0.738,(2.7308)+(-0.0040)Gly+(-0.0612)Tyr+(0.0140)Orn+(0.1534)Ile+(-0.0863)Leu;0.759,0.786,0.736,0.719,0.749,0.801,0.708,0.744,(6.3190)+(0.0043)Gly+(-0.1194)His+(-0.0342)Cit+(0.0054)Pro+(0.0015)Val;0.759,0.794,0.747,0.764,0.758,0.805,0.641,0.742,(0.8711)+(0.0417)Ser+(-0.0878)Asn+(0.0109)Thr+(-0.2371)Met+(0.0084)Leu;0.759,0.787,0.768,0.758,0.757,0.811,0.783,0.777,(6.9768)+(-0.1199)His+(-0.0027)Ala+(-0.0085)Tyr+(0.0027)Val+(0.0058)Lys;0.759,0.792,0.762,0.739,0.767,0.802,0.784,0.773,(6.7766)+(0.0134)Asn+(-0.1212)His+(0.0023)Arg+(-0.1026)Met+(0.0192)Leu;0.759,0.792,0.774,0.794,0.761,0.844,0.698,0.774,(3.3547)+(0.0379)Ser+(-0.1130)Asn+(-0.0047)Ala+(-0.0676)Cit+(-0.0131)Tyr;0.759,0.797,0.758,0.759,0.733,0.820,0.761,0.768,(3.4004)+(0.0023)Gly+(-0.0151)Arg+(-0.2165)Met+(0.1720)Ile+(-0.0834)Leu;0.759,0.791,0.730,0.709,0.699,0.841,0.771,0.755,(-0.4823)+(0.0303)Ser+(-0.0144)Ala+(-0.0926)Cit+(-0.0106)Arg+(0.0650)Ile;0.759,0.792,0.788,0.799,0.768,0.838,0.763,0.792,(1.9844)+(0.0503)Ser+(-0.0814)Asn+(-0.0064)Gly+(-0.0023)Ala+(-0.1573)Met;0.759,0.785,0.783,0.765,0.762,0.844,0.832,0.801,(3.9397)+(-0.0881)Asn+(0.0126)Thr+(-0.0123)Ala+(-0.0889)Cit+(0.0564)Ile;0.759,0.799,0.735,0.730,0.774,0.819,0.606,0.732,(0.8138)+(0.0365)Ser+(-0.0984)Cit+(-0.2683)Met+(0.0380)Orn+(0.0062)Leu;0.759,0.792,0.690,0.676,0.629,0.780,0.789,0.718,(-3.3191)+(0.0371)Ser+(-0.0317)Thr+(0.1704)Ile+(

-0.1053)Leu+(0.0486)Phe;0.759,0.793,0.731,0.735,0.753,0.808,0.617,0.728,(1.1819)+(0.0415)Ser+(-0.0702)Cit+(-0.0043)Arg+(0.0120)Pro+(-0.2771)Met;0.759,0.780,0.697,0.683,0.628,0.800,0.804,0.729,(-0.5265)+(0.0255)Ser+(-0.0152)Thr+(-0.0041)Pro+(-0.0522)Val+(0.1523)Ile;0.759,0.789,0.769,0.767,0.773,0.827,0.724,0.773,(7.4069)+(-0.0087)Asn+(0.0043)Gly+(-0.1023)His+(-0.0309)Cit+(-0.0452)Met;0.759,0.788,0.773,0.772,0.773,0.833,0.732,0.778,(7.4320)+(0.0040)Gly+(-0.1012)His+(-0.0015)Ala+(-0.0319)Cit+(-0.0415)Met;0.759,0.798,0.758,0.782,0.765,0.754,0.684,0.746,(-0.0215)+(0.0246)Thr+(-0.0182)Val+(-0.3649)Met+(0.0154)Orn+(0.1219)Phe;0.759,0.786,0.747,0.726,0.753,0.788,0.758,0.756,(6.9485)+(-0.1175)His+(-0.0271)Cit+(0.0053)Pro+(-0.0196)Tyr+(0.0127)Leu;0.759,0.794,0.723,0.721,0.748,0.798,0.625,0.723,(0.6741)+(0.0425)Ser+(-0.0750)Cit+(0.0110)Pro+(-0.2985)Met+(0.0073)Leu;0.759,0.793,0.751,0.724,0.787,0.769,0.733,0.753,(0.9448)+(-0.0878)Cit+(-0.3110)Met+(0.0253)Orn+(0.0380)Ile+(0.0651)Phe;0.759,0.792,0.763,0.755,0.761,0.805,0.761,0.770,(7.1218)+(-0.1061)His+(0.0082)Pro+(-0.0035)Tyr+(0.0007)Val+(-0.0827)Met;0.759,0.788,0.776,0.766,0.748,0.829,0.822,0.791,(2.6285)+(0.0026)Gly+(-0.0077)Ala+(-0.2127)Met+(-0.0090)Lys+(0.0725)Ile;0.759,0.791,0.759,0.771,0.714,0.814,0.779,0.770,(-0.8717)+(0.0423)Ser+(-0.1769)Asn+(0.0014)Gln+(-0.0080)Ala+(0.0660)Phe;0.759,0.792,0.763,0.755,0.761,0.805,0.760,0.770,(7.0791)+(0.0044)Asn+(-0.1059)His+(0.0084)Pro+(-0.0027)Tyr+(-0.0868)Met;0.759,0.788,0.744,0.728,0.743,0.788,0.761,0.755,(6.8035)+(-0.1223)His+(-0.0030)Arg+(0.0053)Pro+(-0.0195)Tyr+(0.0120)Leu;0.759,0.784,0.734,0.719,0.745,0.797,0.708,0.742,(6.2137)+(0.0041)Gly+(-0.1204)His+(-0.0330)Cit+(0.0055)Pro+(0.0026)Lys;0.759,0.788,0.755,0.738,0.752,0.795,0.775,0.765,(7.0525)+(-0.0096)Asn+(-0.1226)His+(-0.0007)Arg+(-0.0131)Tyr+(0.0146)Leu;0.759,0.788,0.753,0.745,0.754,0.809,0.735,0.761,(6.8031)+(0.0032)Gly+(-0.1211)His+(-0.0047)Arg+(-0.0058)Tyr

+(0.0029)Val;0.758,0.784,0.774,0.764,0.766,0.815,0.785,0.782,(7.3591)+(-0.0176)Asn+(-0.1145)His+(-0.0025)Ala+(-0.0062)Arg+(0.0083)Lys;0.758,0.790,0.746,0.761,0.774,0.830,0.584,0.737,(1.9054)+(0.0326)Ser+(0.0127)Thr+(-0.0694)Cit+(-0.0015)Val+(-0.2632)Met;0.758,0.787,0.780,0.806,0.764,0.751,0.763,0.771,(-0.5226)+(0.0044)Gln+(0.0106)Pro+(-0.0169)Val+(-0.3447)Met+(0.1127)Phe;0.758,0.790,0.764,0.760,0.764,0.811,0.739,0.768,(6.6728)+(-0.0116)Asn+(0.0036)Gly+(-0.1150)His+(-0.0849)Met+(0.0103)Lys;0.758,0.789,0.733,0.754,0.696,0.787,0.714,0.738,(3.5656)+(0.0056)Thr+(-0.0292)Arg+(-0.0506)Tyr+(0.1656)Ile+(-0.0896)Leu;0.758,0.792,0.759,0.752,0.760,0.810,0.736,0.765,(6.4534)+(0.0037)Gly+(-0.1198)His+(0.0026)Val+(-0.0966)Met+(0.0092)Lys;0.758,0.787,0.774,0.762,0.767,0.820,0.786,0.784,(7.3458)+(-0.1150)His+(-0.0025)Ala+(-0.0021)Arg+(-0.0039)Tyr+(0.0035)Val;0.758,0.785,0.782,0.799,0.761,0.771,0.789,0.780,(1.5119)+(-0.0062)Ala+(0.0145)Pro+(-0.0140)Val+(-0.2799)Met+(0.1096)Phe;0.758,0.794,0.758,0.754,0.717,0.791,0.830,0.773,(2.0469)+(-0.1037)Asn+(-0.0060)Lys+(0.1415)Ile+(-0.0884)Leu+(0.0562)Phe;0.758,0.787,0.784,0.772,0.756,0.831,0.838,0.799,(3.0998)+(-0.0034)Asn+(-0.0076)Ala+(-0.2017)Met+(-0.0086)Lys+(0.0698)Ile;0.758,0.786,0.780,0.786,0.768,0.776,0.794,0.781,(1.3280)+(-0.0082)Ala+(0.0128)Pro+(-0.2695)Met+(-0.0057)Lys+(0.0917)Phe;0.758,0.794,0.738,0.752,0.716,0.826,0.683,0.744,(0.4749)+(0.0364)Ser+(0.0045)Thr+(-0.0071)Ala+(0.0155)Pro+(-0.2735)Met;0.758,0.782,0.709,0.701,0.643,0.794,0.805,0.736,(1.1046)+(-0.0070)Pro+(-0.0451)Val+(0.0113)Orn+(0.1868)Ile+(-0.0383)Leu;0.758,0.791,0.755,0.744,0.730,0.810,0.797,0.770,(2.0000)+(0.0162)Thr+(-0.0100)Ala+(0.0084)Pro+(-0.2960)Met+(0.0601)Ile;0.758,0.792,0.762,0.763,0.720,0.817,0.807,0.777,(-0.2474)+(0.0495)Ser+(-0.1673)Asn+(-0.0048)Gly+(-0.0080)Ala+(0.0643)Phe;0.758,0.792,0.757,0.780,0.763,0.821,0.636,0.750,(1.6016)+(0.0393)Ser+(-0.0911)Asn+(0.0111)Thr+(-0.0025)Tyr+(-0.2053)Me

t;0.758,0.792,0.764,0.754,0.763,0.806,0.761,0.771,(7.0739)+(0.0056)As
n+(-0.1063)His+(-0.0011)Arg+(0.0083)Pro+(-0.0900)Met;0.758,0.798,0.76
6,0.765,0.739,0.820,0.784,0.777,(3.7289)+(-0.0138)Arg+(0.0006)Pro+(-0
.2140)Met+(0.1697)Ile+(-0.0833)Leu;0.758,0.793,0.764,0.754,0.764,0.80
4,0.763,0.771,(7.1155)+(-0.1062)His+(-0.0007)Arg+(0.0081)Pro+(0.0005)
Val+(-0.0864)Met;0.758,0.792,0.729,0.734,0.721,0.788,0.691,0.733,(0.0
414)+(0.0481)Ser+(-0.0078)Gly+(0.0071)Thr+(0.0102)Pro+(-0.3212)Met;0.
758,0.795,0.761,0.750,0.761,0.796,0.764,0.768,(6.7048)+(-0.1120)His+(
0.0086)Pro+(-0.0071)Tyr+(-0.1108)Met+(0.0099)Lys;0.758,0.791,0.775,0.
764,0.748,0.816,0.829,0.789,(2.8017)+(-0.0099)Ala+(-0.0066)Arg+(0.009
4)Pro+(-0.2310)Met+(0.0589)Ile;0.758,0.786,0.751,0.719,0.785,0.810,0.
726,0.760,(3.5835)+(-0.0944)Cit+(-0.2104)Met+(0.0403)Orn+(-0.0144)Lys
+(0.0510)Ile;0.758,0.794,0.726,0.713,0.757,0.810,0.635,0.729,(1.7158)
+(0.0387)Ser+(-0.1630)Asn+(-0.1023)Cit+(0.0013)Pro+(0.0403)Orn;0.758,
0.796,0.795,0.808,0.776,0.830,0.771,0.796,(0.6388)+(0.0493)Ser+(-0.09
71)Asn+(-0.0071)Gly+(0.0041)Gln+(-0.1912)Met;0.758,0.787,0.743,0.737,
0.743,0.796,0.721,0.749,(6.6875)+(0.0031)Gly+(-0.1162)His+(-0.0062)Ar
g+(0.0071)Pro+(-0.0125)Tyr;0.758,0.797,0.762,0.789,0.784,0.758,0.646,
0.744,(0.7599)+(0.0347)Thr+(-0.0212)Arg+(-0.0171)Val+(-0.3613)Met+(0.
1297)Phe;0.758,0.789,0.756,0.750,0.754,0.803,0.743,0.762,(6.8167)+(-0
.0295)Asn+(0.0032)Gly+(-0.1180)His+(-0.0082)Tyr+(0.0073)Lys;0.758,0.7
83,0.689,0.671,0.622,0.799,0.797,0.722,(-0.7482)+(0.0255)Ser+(-0.0183
)Thr+(-0.0526)Val+(0.0109)Orn+(0.1444)Ile;0.758,0.783,0.769,0.757,0.7
62,0.816,0.782,0.779,(7.0885)+(-0.1195)His+(-0.0029)Ala+(-0.0068)Arg+
(0.0017)Val+(0.0069)Lys;0.758,0.786,0.762,0.740,0.773,0.803,0.769,0.7
71,(7.1155)+(0.0138)Asn+(-0.1146)His+(-0.0256)Cit+(-0.0954)Met+(0.019
1)Leu;0.758,0.782,0.736,0.723,0.742,0.791,0.716,0.743,(6.1682)+(0.003
6)Gly+(-0.1267)His+(-0.0107)Arg+(0.0054)Pro+(0.0056)Lys;0.758,0.799,0

.763,0.770,0.763,0.833,0.693,0.765,(3.9395)+(0.0352)Thr+(-0.0147)Arg+(-0.0463)Val+(-0.3276)Met+(0.0796)Leu;0.758,0.795,0.756,0.774,0.785,0.748,0.652,0.740,(0.8907)+(0.0318)Thr+(-0.0669)Cit+(-0.0137)Val+(-0.3660)Met+(0.1264)Phe;0.758,0.787,0.777,0.770,0.770,0.817,0.784,0.785,(7.1657)+(-0.0059)Asn+(-0.1117)His+(-0.0015)Ala+(-0.0704)Met+(0.0099)Lys;0.758,0.784,0.723,0.707,0.671,0.808,0.813,0.750,(2.1838)+(0.0005)Gly+(-0.0643)Cit+(-0.0041)Pro+(-0.0517)Val+(0.1550)Ile;0.758,0.791,0.744,0.759,0.775,0.829,0.578,0.735,(2.0189)+(0.0332)Ser+(0.0136)Thr+(-0.0706)Cit+(-0.2540)Met+(-0.0042)Lys;0.758,0.786,0.760,0.746,0.760,0.802,0.765,0.768,(7.1513)+(-0.0167)Asn+(-0.1124)His+(-0.0037)Arg+(0.0060)Pro+(-0.0012)Val;0.758,0.778,0.710,0.696,0.645,0.786,0.829,0.739,(2.5878)+(-0.0013)Gly+(-0.0025)Gln+(-0.0040)Pro+(-0.0560)Val+(0.1592)Ile;0.758,0.802,0.748,0.743,0.731,0.840,0.729,0.761,(0.3494)+(0.0402)Ser+(0.0209)Tyr+(-0.0415)Val+(-0.3273)Met+(0.0757)Leu;0.758,0.792,0.746,0.759,0.751,0.808,0.659,0.744,(0.6830)+(0.0433)Ser+(-0.0906)Asn+(-0.2042)Met+(0.0183)Orn+(0.0047)Leu;0.758,0.785,0.779,0.794,0.777,0.775,0.747,0.773,(0.9279)+(-0.0161)Val+(-0.2760)Met+(0.0279)Orn+(-0.0028)Lys+(0.1069)Phe;0.758,0.792,0.768,0.761,0.767,0.824,0.746,0.775,(6.9545)+(-0.0039)Asn+(0.0037)Gly+(-0.1111)His+(0.0101)Tyr+(-0.0688)Met;0.758,0.783,0.777,0.763,0.777,0.825,0.778,0.786,(7.6422)+(-0.0060)Asn+(-0.1078)His+(-0.0032)Ala+(-0.0306)Cit+(0.0043)Val;0.757,0.790,0.767,0.754,0.773,0.811,0.758,0.774,(7.3186)+(0.0045)Asn+(-0.1008)His+(-0.0251)Cit+(0.0084)Pro+(-0.0870)Met;0.757,0.783,0.761,0.755,0.759,0.824,0.738,0.769,(6.8250)+(0.0037)Gly+(-0.1127)His+(-0.0029)Ala+(-0.0330)Cit+(0.0056)Lys;0.757,0.784,0.712,0.704,0.640,0.780,0.831,0.739,(0.6118)+(-0.0089)Thr+(-0.0422)Val+(0.1795)Ile+(-0.0456)Leu+(0.0319)Phe;0.757,0.789,0.762,0.749,0.743,0.822,0.790,0.776,(2.6796)+(0.0209)Thr+(-0.0078)Ala+(-0.2659)Met+(-0.0123)Lys+(0.0723)Ile;0.757,0.787,0.820,0.848

,0.802,0.786,0.808,0.811,(0.2467)+(-0.0811)Asn+(0.0069)Gln+(-0.0157)V
al+(-0.2413)Met+(0.1118)Phe;0.757,0.791,0.762,0.742,0.789,0.756,0.765
,0.763,(1.3314)+(-0.0143)Asn+(-0.0683)Cit+(-0.2980)Met+(0.0435)Ile+(0
.0714)Phe;0.757,0.783,0.703,0.688,0.638,0.774,0.830,0.732,(1.7847)+(-
0.0035)Gln+(-0.0049)Pro+(-0.0580)Val+(0.1584)Ile+(0.0288)Phe;0.757,0.
787,0.761,0.756,0.759,0.815,0.742,0.768,(7.1464)+(-0.0175)Asn+(0.0033
)Gly+(-0.1132)His+(-0.0034)Arg+(-0.0013)Tyr;0.757,0.793,0.753,0.771,0
.762,0.820,0.641,0.748,(1.2595)+(0.0423)Ser+(-0.0852)Asn+(-0.0113)Arg
+(-0.1801)Met+(0.0229)Orn;0.757,0.785,0.752,0.743,0.749,0.796,0.750,0
.760,(7.0887)+(-0.1134)His+(-0.0043)Arg+(0.0069)Pro+(-0.0157)Tyr+(0.0
004)Val;0.757,0.777,0.706,0.695,0.640,0.781,0.816,0.733,(2.4238)+(-0.
0015)Gly+(-0.0021)Gln+(-0.0459)Val+(0.1781)Ile+(-0.0331)Leu;0.757,0.7
88,0.766,0.752,0.773,0.768,0.787,0.770,(1.0097)+(-0.0033)Arg+(-0.3074
)Met+(-0.0120)Lys+(0.0484)Ile
+(0.0720)Phe;0.757,0.785,0.739,0.759,0.697,0.788,0.736,0.745,(3.6358)
+(-0.0254)Arg+(-0.0010)Pro+(-0.0460)Tyr+(0.1679)Ile+(-0.0901)Leu;0.75
7,0.792,0.732,0.734,0.738,0.767,0.691,0.733,(-1.1492)+(0.0434)Ser+(-0
.1978)Asn+(0.0038)Gln+(-0.0865)Cit+(0.0616)Phe;0.757,0.801,0.747,0.75
1,0.724,0.835,0.724,0.758,(0.5978)+(0.0381)Ser+(0.0005)Gln+(-0.0385)V
al+(-0.2929)Met+(0.0718)Leu;0.757,0.795,0.762,0.752,0.765,0.821,0.743
,0.770,(6.7295)+(0.0039)Gly+(-0.1165)His+(0.0075)Tyr+(0.0038)Val+(-0.
0780)Met;0.757,0.779,0.696,0.676,0.633,0.770,0.828,0.727,(1.9598)+(-0
.0009)Gly+(-0.0036)Gln+(-0.0580)Val+(0.1531)Ile+(0.0251)Phe;0.757,0.7
93,0.768,0.778,0.789,0.777,0.692,0.759,(1.0841)+(0.0310)Thr+(-0.0064)
Ala+(-0.0825)Cit+(-0.3339)Met+(0.1066)Phe;0.757,0.789,0.779,0.767,0.7
73,0.826,0.788,0.789,(7.3825)+(-0.1110)His+(-0.0021)Ala+(0.0044)Tyr+(
0.0038)Val+(-0.0525)Met;0.757,0.794,0.748,0.766,0.719,0.834,0.697,0.7
54,(1.1354)+(0.0364)Ser+(-0.0065)Ala+(0.0173)Pro+(-0.0061)Val+(-0.244

9)Met;0.757,0.791,0.762,0.739,0.769,0.802,0.781,0.773,(6.8171)+(0.014
8)Asn+(-0.1208)His+(0.0021)Tyr+(-0.1035)Met+(0.0189)Leu;0.757,0.784,0
.733,0.753,0.673,0.775,0.777,0.745,(2.4039)+(-0.0039)Gly+(0.0013)Gln+
(-0.0593)Tyr+(0.1558)Ile+(-0.0860)Leu;0.757,0.784,0.753,0.747,0.754,0
.801,0.733,0.759,(6.7940)+(-0.0264)Asn+(0.0038)Gly+(-0.1201)His+(-0.0
082)Arg+(0.0081)Lys;0.757,0.787,0.777,0.789,0.768,0.853,0.706,0.779,(
3.2938)+(0.0385)Ser+(-0.1096)Asn+(-0.0051)Ala+(-0.0688)Cit+(-0.0044)L
ys;0.757,0.791,0.761,0.740,0.766,0.800,0.781,0.771,(6.6705)+(0.0105)A
sn+(-0.1233)His+(-0.1134)Met+(0.0060)Lys+(0.0168)Leu;0.757,0.789,0.68
7,0.704,0.630,0.763,0.703,0.700,(0.1003)+(0.0177)Ser+(-0.0590)Tyr+(0.
0023)Orn+(0.1524)Ile+(-0.0823)Leu;0.757,0.784,0.763,0.756,0.758,0.797
,0.770,0.770,(7.1899)+(-0.0212)Asn+(-0.1166)His+(-0.0118)Tyr+(0.0004)
Val+(0.0071)Lys;0.757,0.795,0.715,0.708,0.732,0.757,0.668,0.716,(-0.3
823)+(0.0461)Ser+(-0.1811)Asn+(-0.0808)Cit+(0.0014)Pro+(0.0620)Phe;0.
757,0.791,0.761,0.749,0.765,0.796,0.760,0.768,(6.7959)+(-0.1122)His+(
-0.0058)Arg+(0.0083)Pro+(-0.1158)Met+(0.0107)Lys;0.757,0.792,0.765,0.
743,0.770,0.803,0.787,0.776,(6.9313)+(-0.1189)His+(0.0029)Arg+(0.0008
)Tyr+(-0.0924)Met+(0.0184)Leu;0.757,0.794,0.722,0.715,0.734,0.760,0.6
88,0.724,(-0.2534)+(0.0480)Ser+(-0.1789)Asn+(-0.0016)Gly+(-0.0781)Cit
+(0.0619)Phe;0.757,0.794,0.768,0.774,0.764,0.799,0.740,0.769,(1.0688)
+(0.0533)Ser+(-0.0784)Asn+(-0.0063)Gly+(-0.2057)Met+(0.0077)Leu;0.757
,0.787,0.756,0.747,0.753,0.796,0.758,0.764,(7.2741)+(-0.0132)Asn+(-0.
1098)His+(-0.0031)Arg+(0.0071)Pro+(-0.0148)Tyr;0.757,0.790,0.767,0.75
4,0.774,0.810,0.758,0.774,(7.3413)+(-0.1015)His+(-0.0256)Cit+(0.0080)
Pro+(0.0011)Val+(-0.0844)Met;0.757,0.779,0.705,0.696,0.631,0.776,0.83
0,0.733,(0.6230)+(-0.0027)Gly+(-0.0452)Val+(0.1776)Ile+(-0.0411)Leu+(
0.0275)Phe;0.757,0.795,0.757,0.755,0.715,0.789,0.830,0.772,(1.7970)+(
-0.1128)Asn+(-0.0009)Thr+(0.1421)Ile+(-0.0916)Leu+(0.0553)Phe;0.757,0

.791,0.710,0.743,0.684,0.727,0.664,0.704,(-0.6425)+(0.0450)Ser+(-0.17
27)Asn+(0.0023)Thr+(-0.0659)Tyr+(0.0889)Phe;0.757,0.795,0.764,0.766,0
.737,0.815,0.777,0.774,(3.5290)+(-0.0165)Arg+(-0.2219)Met+(0.0050)Lys
+(0.1730)Ile+(-0.0870)Leu;0.757,0.793,0.762,0.756,0.762,0.819,0.740,0
.769,(6.8843)+(0.0037)Gly+(-0.1155)His+(-0.0014)Arg+(0.0041)Val+(-0.0
639)Met;0.757,0.789,0.778,0.768,0.771,0.822,0.785,0.786,(7.4176)+(-0.
1108)His+(-0.0020)Ala+(0.0002)Arg+(0.0040)Val+(-0.0465)Met;0.757,0.78
5,0.761,0.756,0.765,0.817,0.725,0.766,(7.2781)+(-0.0220)Asn+(0.0043)G
ly+(-0.1071)His+(-0.0318)Cit+(0.0002)Tyr;0.757,0.794,0.760,0.782,0.77
2,0.748,0.682,0.746,(0.3340)+(0.0292)Thr+(-0.0158)Val+(-0.3623)Met+(-
0.0045)Lys+(0.1261)Phe;0.757,0.790,0.729,0.740,0.732,0.797,0.645,0.72
8,(0.6231)+(0.0443)Ser+(-0.0870)Asn+(0.0086)Pro+(-0.2301)Met+(0.0146)
Orn;0.756,0.792,0.719,0.755,0.690,0.727,0.682,0.713,(-1.0425)+(0.0444
)Ser+(-0.1770)Asn+(0.0016)Gln+(-0.0649)Tyr+(0.0875)Phe;0.756,0.790,0.
766,0.741,0.776,0.807,0.783,0.777,(7.0530)+(-0.1137)His+(-0.0322)Cit+
(0.0084)Arg+(-0.0956)Met+(0.0195)Leu;0.756,0.792,0.741,0.755,0.715,0.
825,0.695,0.747,(0.4255)+(0.0377)Ser+(0.0001)Gln+(-0.0071)Ala+(0.0158
)Pro+(-0.2597)Met;0.756,0.789,0.732,0.744,0.733,0.793,0.652,0.731,(0.
9351)+(0.0450)Ser+(-0.0798)Asn+(0.0099)Pro+(-0.2224)Met+(-0.0013)Lys;
0.756,0.782,0.754,0.745,0.761,0.808,0.723,0.759,(6.9274)+(-0.0315)Asn
+(0.0044)Gly+(-0.1125)His+(-0.0315)Cit+(0.0062)Lys;0.756,0.790,0.765,
0.761,0.737,0.831,0.786,0.778,(4.2528)+(-0.0699)Asn+(-0.0666)Cit+(-0.
0071)Arg+(0.1526)Ile+(-0.0836)Leu;0.756,0.784,0.752,0.725,0.763,0.794
,0.769,0.763,(6.9129)+(-0.0157)Asn+(-0.1187)His+(-0.0276)Cit+(0.0038)
Pro+(0.0108)Leu;0.756,0.781,0.746,0.737,0.749,0.799,0.728,0.753,(6.47
86)+(0.0033)Gly+(-0.1263)His+(-0.0094)Arg+(0.0008)Val+(0.0063)Lys;0.7
56,0.786,0.752,0.771,0.774,0.828,0.601,0.744,(1.0788)+(0.0311)Ser+(0.
0023)Gln+(0.0113)Thr+(-0.0746)Cit+(-0.2769)Met;0.756,0.793,0.729,0.73

2,0.749,0.805,0.622,0.727,(1.1518)+(0.0409)Ser+(-0.0733)Cit+(0.0121)Pro+(-0.0024)Tyr+(-0.2787)Met;0.756,0.784,0.761,0.755,0.766,0.817,0.726,0.766,(7.2425)+(-0.0234)Asn+(0.0043)Gly+(-0.1071)His+(-0.0332)Cit+(0.0018)Arg;0.756,0.785,0.746,0.720,0.752,0.793,0.768,0.758,(6.4610)+(-0.1290)His+(-0.0057)Arg+(0.0037)Pro+(0.0022)Lys+(0.0092)Leu;0.756,0.786,0.766,0.777,0.751,0.769,0.767,0.766,(0.3405)+(0.0030)Gly+(-0.0086)Ala+(0.0130)Pro+(-0.2980)Met+(0.0934)Phe;0.756,0.793,0.733,0.741,0.708,0.815,0.703,0.742,(-0.0390)+(0.0394)Ser+(-0.0075)Ala+(0.0150)Pro+(-0.2757)Met+(0.0085)Leu;0.756,0.791,0.771,0.770,0.764,0.825,0.750,0.777,(7.2259)+(0.0032)Gly+(-0.1081)His+(-0.0011)Ala+(-0.0017)Arg+(-0.0443)Met;0.756,0.784,0.749,0.739,0.759,0.808,0.716,0.756,(6.7648)+(0.0041)Gly+(-0.1177)His+(-0.0337)Cit+(-0.0062)Tyr+(0.0041)Val;0.756,0.790,0.764,0.750,0.772,0.801,0.761,0.771,(6.9151)+(-0.1070)His+(-0.0248)Cit+(0.0084)Pro+(-0.1164)Met+(0.0094)Lys;0.756,0.788,0.765,0.758,0.731,0.811,0.824,0.781,(2.6750)+(-0.0099)Ala+(0.0097)Pro+(-0.0100)Tyr+(-0.2271)Met+(0.0592)Ile;0.756,0.782,0.780,0.799,0.773,0.749,0.770,0.773,(2.2888)+(-0.0517)Asn+(0.0108)Pro+(-0.0177)Val+(-0.2541)Met+(0.1111)Phe;0.756,0.793,0.793,0.823,0.774,0.851,0.711,0.790,(1.3790)+(0.0373)Ser+(-0.1072)Asn+(0.0040)Gln+(-0.0062)Val+(-0.1531)Met;0.756,0.792,0.740,0.754,0.715,0.826,0.694,0.747,(0.4534)+(0.0378)Ser+(-0.0071)Ala+(0.0159)Pro+(0.0001)Tyr+(-0.2593)Met;0.756,0.787,0.755,0.734,0.758,0.794,0.778,0.766,(6.8180)+(-0.0153)Asn+(-0.1263)His+(-0.0035)Arg+(0.0031)Lys+(0.0111)Leu;0.756,0.782,0.748,0.734,0.759,0.808,0.717,0.755,(6.6399)+(0.0043)Gly+(-0.1195)His+(-0.0337)Cit+(-0.0005)Arg+(0.0036)Val;0.756,0.785,0.739,0.726,0.749,0.803,0.708,0.746,(6.4874)+(0.0042)Gly+(-0.1164)His+(-0.0313)Cit+(-0.0026)Arg+(0.0060)Pro;0.756,0.791,0.695,0.726,0.668,0.713,0.660,0.692,(-0.7864)+(0.0460)Ser+(-0.1713)Asn+(0.0053)Pro+(-0.0702)Tyr+(0.0857)Phe;0.756,0.789,0.771,0.771,0.791,0.795,

0.713,0.767,(1.5402)+(-0.0848)Cit+(-0.0155)Val+(-0.2548)Met+(0.0477)Orn+(0.1032)Phe;0.756,0.781,0.743,0.729,0.754,0.803,0.717,0.750,(6.4438)+(0.0041)Gly+(-0.1221)His+(-0.0332)Cit+(0.0028)Val+(0.0028)Lys;0.756,0.778,0.708,0.698,0.642,0.784,0.812,0.734,(2.3502)+(-0.0018)Gln+(-0.0052)Thr+(-0.0441)Val+(0.1790)Ile+(-0.0356)Leu;0.756,0.785,0.784,0.780,0.749,0.835,0.831,0.799,(4.4410)+(-0.0553)Asn+(-0.0103)Ala+(-0.0779)Cit+(-0.0274)Tyr+(0.0610)Ile;0.756,0.785,0.740,0.759,0.698,0.786,0.740,0.746,(3.7417)+(-0.0006)Gly+(-0.0250)Arg+(-0.0472)Tyr+(0.1661)Ile+(-0.0897)Leu;0.756,0.782,0.747,0.737,0.747,0.788,0.745,0.754,(6.9073)+(-0.1137)His+(-0.0256)Cit+(0.0069)Pro+(-0.0203)Tyr+(0.0053)Lys;0.756,0.782,0.747,0.740,0.744,0.784,0.744,0.753,(6.8784)+(-0.1187)His+(-0.0089)Arg+(0.0070)Pro+(-0.0216)Tyr+(0.0078)Lys;0.756,0.783,0.711,0.731,0.658,0.761,0.734,0.721,(2.0697)+(-0.0003)Gln+(-0.0588)Tyr+(0.0101)Orn+(0.1534)Ile+(-0.0855)Leu;0.756,0.786,0.778,0.770,0.768,0.820,0.789,0.787,(7.6018)+(-0.0103)Asn+(-0.1086)His+(-0.0019)Ala+(-0.0017)Arg+(-0.0005)Tyr;0.756,0.783,0.761,0.783,0.755,0.746,0.725,0.752,(0.6640)+(0.0028)Gly+(0.0112)Pro+(-0.0168)Val+(-0.3239)Met+(0.1154)Phe;0.756,0.781,0.752,0.739,0.732,0.829,0.774,0.768,(3.0002)+(-0.0127)Ala+(-0.1194)Cit+(-0.0394)Tyr+(0.0441)Orn+(0.0517)Ile;0.755,0.784,0.733,0.750,0.676,0.774,0.776,0.744,(2.8345)+(-0.0030)Gly+(-0.0016)Pro+(-0.0561)Tyr+(0.1588)Ile+(-0.0860)Leu;0.755,0.792,0.757,0.762,0.706,0.852,0.778,0.775,(2.9282)+(0.0409)Ser+(-0.1641)Asn+(-0.0037)Ala+(-0.0422)Val+(0.0690)Leu;0.755,0.790,0.720,0.694,0.686,0.835,0.778,0.748,(-0.2979)+(0.0303)Ser+(-0.0014)Gln+(-0.0149)Ala+(-0.0998)Cit+(0.0657)Ile;0.755,0.784,0.759,0.749,0.759,0.801,0.754,0.766,(7.4577)+(-0.0150)Asn+(-0.1045)His+(-0.0258)Cit+(0.0071)Pro+(-0.0144)Tyr;0.755,0.788,0.763,0.747,0.805,0.792,0.701,0.761,(1.8908)+(-0.0930)Cit+(-0.2402)Met+(0.0451)Orn+(-0.0127)Lys+(0.0832)Phe;0.755,0.783,0.754,0.737,0.758,0.793,0.764,

0.763,(6.8721)+(-0.0208)Asn+(-0.1195)His+(-0.0069)Arg+(0.0052)Pro+(0.0061)Lys;0.755,0.780,0.776,0.765,0.774,0.821,0.780,0.785,(7.5637)+(-0.0203)Asn+(-0.1071)His+(-0.0028)Ala+(-0.0274)Cit+(0.0070)Lys;0.755,0.789,0.713,0.715,0.674,0.770,0.749,0.727,(0.7998)+(0.0498)Ser+(-0.1359)Asn+(-0.0065)Gly+(-0.0523)Tyr+(0.0405)Ile;0.755,0.790,0.727,0.731,0.762,0.800,0.591,0.721,(0.9002)+(0.0363)Ser+(0.0132)Thr+(-0.0749)Cit+(-0.3092)Met+(0.0132)Leu;0.755,0.789,0.775,0.764,0.771,0.816,0.785,0.784,(7.0499)+(-0.1149)His+(-0.0019)Ala+(0.0025)Val+(-0.0755)Met+(0.0090)Lys;0.755,0.781,0.756,0.729,0.765,0.798,0.776,0.767,(6.9962)+(-0.0159)Asn+(-0.1201)His+(-0.0297)Cit+(0.0033)Arg+(0.0135)Leu;0.755,0.783,0.774,0.758,0.773,0.825,0.779,0.784,(7.4087)+(-0.1106)His+(-0.0035)Ala+(-0.0336)Cit+(0.0031)Arg+(0.0047)Val;0.755,0.783,0.753,0.740,0.755,0.797,0.748,0.760,(7.1720)+(-0.1100)His+(-0.0265)Cit+(0.0068)Pro+(-0.0163)Tyr+(0.0011)Val;0.755,0.787,0.781,0.772,0.774,0.824,0.787,0.789,(7.4787)+(0.0003)Asn+(-0.1071)His+(-0.0015)Ala+(0.0071)Tyr+(-0.0509)Met;0.755,0.788,0.706,0.737,0.679,0.730,0.661,0.702,(-0.7461)+(0.0450)Ser+(-0.1733)Asn+(-0.0669)Tyr+(0.0129)Orn+(0.0844)Phe;0.755,0.778,0.708,0.695,0.643,0.785,0.822,0.736,(2.5130)+(-0.0026)Gln+(-0.0021)Thr+(-0.0038)Pro+(-0.0556)Val+(0.1589)Ile;0.755,0.793,0.737,0.748,0.714,0.826,0.690,0.745,(0.2356)+(0.0366)Ser+(-0.0074)Ala+(0.0150)Pro+(-0.2652)Met+(0.0127)Orn;0.755,0.791,0.776,0.778,0.778,0.765,0.775,0.774,(-1.4879)+(0.0056)Gln+(-0.0170)Arg+(-0.3621)Met+(0.0417)Ile+(0.0713)Phe;0.755,0.784,0.767,0.763,0.764

,0.830,0.739,0.774,(7.1984)+(0.0037)Gly+(-0.1069)His+(-0.0024)Ala+(-0.0337)Cit+(0.0009)Arg;0.755,0.782,0.767,0.761,0.758,0.810,0.774,0.776,(7.2315)+(-0.1166)His+(-0.0022)Ala+(-0.0075)Arg+(-0.0073)Tyr+(0.0084)Lys;0.755,0.792,0.780,0.809,0.774,0.830,0.678,0.773,(0.6705)+(0.0399)Ser+(-0.0936)Asn+(0.0040)Gln+(-0.0104)Arg+(-0.1757)Met;0.755,0.785,0

.781,0.784,0.777,0.773,0.790,0.781,(2.1335)+(-0.0433)Cit+(-0.0357)Val+(-0.2998)Met+(0.0509)Leu+(0.1072)Phe;0.755,0.791,0.768,0.767,0.764,0.822,0.744,0.774,(7.1937)+(-0.0056)Asn+(0.0033)Gly+(-0.1088)His+(-0.0015)Arg+(-0.0480)Met;0.755,0.791,0.748,0.766,0.740,0.815,0.667,0.747,(2.2481)+(0.0426)Ser+(-0.0908)Asn+(0.0129)Pro+(-0.0099)Val+(-0.1877)Met;0.755,0.785,0.737,0.758,0.696,0.786,0.732,0.743,(3.5757)+(-0.0265)Arg+(-0.0476)Tyr+(0.0014)Lys+(0.1673)Ile+(-0.0910)Leu;0.755,0.781,0.746,0.717,0.755,0.793,0.766,0.758,(6.6116)+(-0.1239)His+(-0.0279)Cit+(0.0035)Pro+(0.0002)Lys+(0.0111)Leu;0.755,0.790,0.775,0.772,0.749,0.788,0.822,0.783,(0.7349)+(-0.0078)Ala+(-0.0176)Tyr+(-0.2641)Met+(0.0541)Ile+(0.0721)Phe;0.755,0.788,0.744,0.768,0.741,0.777,0.661,0.737,(-0.3380)+(0.0461)Ser+(-0.1669)Asn+(-0.0212)Arg+(-0.0193)Leu+(0.0803)Phe;0.755,0.778,0.692,0.676,0.632,0.777,0.794,0.720,(2.3065)+(-0.0034)Gln+(-0.0475)Val+(0.0144)Orn+(0.1760)Ile+(-0.0314)Leu;0.755,0.779,0.698,0.680,0.635,0.769,0.826,0.727,(1.9014)+(-0.0035)Gln+(-0.0032)Thr+(-0.0574)Val+(0.1526)Ile+(0.0261)Phe;0.755,0.792,0.764,0.755,0.762,0.806,0.759,0.771,(7.1697)+(-0.1050)His+(-0.0008)Arg+(0.0084)Pro+(-0.0031)Tyr+(-0.0814)Met;0.755,0.791,0.735,0.751,0.741,0.794,0.638,0.731,(1.1073)+(0.0457)Ser+(-0.0734)Asn+(-0.0105)Arg+(0.0103)Pro+(-0.2181)Met;0.755,0.786,0.716,0.736,0.661,0.764,0.741,0.726,(1.9606)+(-0.0027)Pro+(-0.0571)Tyr+(0.0106)Orn+(0.1576)Ile+(-0.0863)Leu;0.755,0.791,0.763,0.784,0.760,0.824,0.672,0.760,(0.4022)+(0.0402)Ser+(-0.1020)Asn+(0.0026)Gln+(-0.1954)Met+(0.0179)Orn;0.755,0.781,0.771,0.756,0.770,0.820,0.778,0.781,(7.2361)+(-0.1137)His+(-0.0035)Ala+(-0.0303)Cit+(0.0035)Val+(0.0046)Lys;0.755,0.782,0.759,0.742,0.765,0.805,0.761,0.768,(7.2882)+(-0.0184)Asn+(-0.1083)His+(-0.0264)Cit+(0.0059)Pro+(-0.0006)Val;0.755,0.789,0.790,0.775,0.779,0.833,0.827,0.803,(3.7507)+(-0.0093)Ala+(-0.0749)Cit+(-0.0016)Tyr+(-0.1828)Met+(0.0715)Ile;0.755,0.783,0.759,0.75

6,0.741,0.815,0.761,0.769,(3.5524)+(0.0094)Pro+(-0.0427)Val+(-0.2701)Met+(0.0313)Orn+(0.0621)Leu;0.755,0.786,0.766,0.760,0.764,0.831,0.738,0.773,(7.1360)+(0.0039)Gly+(-0.1080)His+(-0.0026)Ala+(-0.0337)Cit+(0.0043)Tyr;0.755,0.782,0.719,0.739,0.663,0.770,0.744,0.729,(2.0062)+(0.0004)Gln+(-0.0022)Pro+(-0.0553)Tyr+(0.1590)Ile+(-0.0858)Leu;0.755,0.800,0.749,0.751,0.733,0.838,0.710,0.758,(0.9836)+(0.0394)Ser+(-0.0079)Arg+(-0.0376)Val+(-0.2750)Met+(0.0703)Leu;0.755,0.785,0.700,0.686,0.676,0.817,0.703,0.721,(-0.3502)+(0.0223)Ser+(-0.0930)Cit+(-0.0069)Pro+(0.1697)Ile+(-0.0901)Leu;0.755,0.784,0.779,0.796,0.782,0.777,0.729,0.771,(1.3078)+(-0.0138)Arg+(-0.0169)Val+(-0.2637)Met+(0.0314)Orn+(0.1067)Phe;0.755,0.790,0.729,0.740,0.731,0.790,0.654,0.729,(0.5994)+(0.0459)Ser+(-0.0800)Asn+(0.0093)Pro+(-0.2366)Met+(0.0038)Leu;0.755,0.784,0.733,0.750,0.675,0.774,0.776,0.744,(2.8578)+(-0.0025)Gly+(-0.0032)Thr+(-0.0544)Tyr+(0.1576)Ile+(-0.0861)Leu;0.755,0.788,0.771,0.785,0.755,0.838,0.719,0.774,(0.9603)+(0.0423)Ser+(-0.0074)Gly+(0.0107)Thr+(-0.0026)Ala+(-0.2609)Met;0.755,0.783,0.785,0.802,0.774,0.783,0.761,0.780,(0.9278)+(-0.0033)Ala+(-0.0151)Val+(-0.2593)Met+(0.0275)Orn+(0.1065)Phe;0.755,0.800,0.762,0.762,0.752,0.841,0.725,0.770,(3.6761)+(0.0326)Thr+(-0.0462)Val+(-0.3269)Met+(-0.0055)Lys+(0.0819)Leu;0.755,0.784,0.773,0.793,0.771,0.770,0.731,0.766,(0.5335)+(0.0014)Gly+(-0.0167)Val+(-0.2882)Met+(0.0256)Orn+(0.1092)Phe;0.755,0.792,0.765,0.785,0.760,0.811,0.690,0.762,(0.0642)+(0.0419)Ser+(-0.0957)Asn+(0.0032)Gln+(-0.2083)Met+(0.0072)Leu;0.755,0.788,0.761,0.767,0.726,0.793,0.798,0.771,(2.3491)+(-0.0848)Asn+(-0.0239)Arg+(0.1517)Ile+(-0.0968)Leu+(0.0598)Phe;0.755,0.787,0.779,0.774,0.771,0.821,0.782,0.787,(7.5909)+(-0.0013)Asn+(-0.1059)His+(-0.0013)Ala+(-0.0004)Arg+(-0.0386)Met;0.754,0.789,0.730,0.745,0.729,0.789,0.647,0.728,(1.0719)+(0.0445)Ser+(-0.0820)Asn+(0.0102)Pro+(-0.0083)Tyr+(-0.2119)Met;0.754,0.789,0.789,0.813,0.780,0.77

5,0.756,0.781,(-0.5172)+(0.0036)Gln+(-0.0165)Val+(-0.3094)Met+(0.0217)Orn+(0.1086)Phe;0.754,0.795,0.705,0.681,0.714,0.780,0.694,0.717,(0.4317)+(0.0447)Ser+(-0.1483)Asn+(-0.0058)Thr+(-0.0760)Cit+(0.0382)Ile;0.754,0.778,0.720,0.710,0.649,0.794,0.840,0.748,(1.8073)+(-0.0020)Gly+(-0.0036)Thr+(-0.0044)Pro+(-0.0552)Val+(0.1559)Ile;0.754,0.782,0.775,0.761,0.775,0.823,0.776,0.784,(7.5667)+(-0.1091)His+(-0.0032)Ala+(-0.0306)Cit+(-0.0027)Tyr+(0.0047)Val;0.754,0.781,0.763,0.751,0.764,0.801,0.768,0.771,(7.2292)+(-0.0204)Asn+(-0.1171)His+(-0.0067)Arg+(-0.0009)Val+(0.0077)Lys;0.754,0.778,0.716,0.708,0.647,0.789,0.829,0.743,(1.8866)+(-0.0016)Gly+(-0.0062)Thr+(-0.0432)Val+(0.1783)Ile+(-0.0378)Leu;0.754,0.794,0.741,0.736,0.763,0.815,0.655,0.742,(1.1233)+(0.0366)Ser+(-0.1759)Asn+(0.0030)Gln+(-0.1052)Cit+(0.0388)Orn;0.754,0.785,0.681,0.660,0.667,0.802,0.682,0.703,(-0.0986)+(0.0244)Ser+(-0.0018)Gln+(-0.0897)Cit+(0.1584)Ile+(-0.0883)Leu;0.754,0.784,0.781,0.768,0.783,0.827,0.776,0.788,(7.7290)+(-0.1047)His+(-0.0026)Ala+(-0.0296)Cit+(0.0050)Val+(-0.0402)Met;0.754,0.786,0.789,0.772,0.762,0.837,0.852,0.806,(2.9626)+(-0.0773)Asn+(-0.0124)Ala+(-0.0844)Cit+(0.0498)Ile+(0.0385)Phe;0.754,0.778,0.695,0.675,0.635,0.783,0.807,0.725,(2.4440)+(-0.0038)Gln+(-0.0051)Pro+(-0.0574)Val+(0.0191)Orn+(0.1594)Ile;0.754,0.786,0.749,0.734,0.747,0.789,0.766,0.759,(6.8569)+(-0.1265)His+(-0.0041)Arg+(-0.0161)Tyr+(0.0041)Lys+(0.0129)Leu;0.754,0.779,0.755,0.731,0.764,0.797,0.769,0.765,(7.0179)+(-0.0157)Asn+(-0.1204)His+(-0.0270)Cit+(0.0018)Lys+(0.0124)Leu;0.754,0.790,0.762,0.756,0.764,0.813,0.739,0.768,(6.4467)+(0.0037)Gly+(-0.1174)His+(0.0072)Tyr+(-0.1041)Met+(0.0098)Lys;0.754,0.789,0.767,0.775,0.746,0.839,0.739,0.775,(0.5155)+(0.0438)Ser+(-0.0074)Gly+(-0.0033)Ala+(-0.2389)Met+(0.0210)Orn;0.754,0.780,0.717,0.706,0.643,0.789,0.848,0.746,(0.8975)+(-0.0024)Gly+(-0.0058)Pro+(-0.0573)Val+(0.1550)Ile+(0.0216)Phe;0.754,0.790,0.756,0.733,0.784,0.752,0.760,

0.757,(1.0048)+(-0.0688)Cit+(0.0027)Pro+(-0.3223)Met+(0.0419)Ile+(0.0721)Phe;0.754,0.789,0.743,0.759,0.776,0.824,0.571,0.733,(1.8922)+(0.0334)Ser+(0.0141)Thr+(-0.0662)Cit+(-0.0069)Arg+(-0.2650)Met;0.754,0.789,0.743,0.757,0.774,0.823,0.587,0.735,(1.6069)+(0.0338)Ser+(0.0120)Thr+(-0.0713)Cit+(0.0051)Tyr+(-0.2774)Met;0.754,0.785,0.779,0.758,0.754,0.837,0.848,0.799,(3.9404)+(-0.0667)Asn+(-0.0135)Ala+(-0.0845)Cit+(0.0080)Pro+(0.0521)Ile;0.754,0.781,0.683,0.666,0.613,0.795,0.788,0.716,(-0.6605)+(0.0164)Ser+(-0.0066)Pro+(-0.0560)Val+(0.0062)Orn+(0.1555)Ile;0.754,0.790,0.769,0.775,0.757,0.845,0.721,0.775,(2.7004)+(0.0389)Ser+(-0.1207)Asn+(-0.0065)Ala+(-0.0734)Cit+(0.0072)Leu;0.754,0.779,0.694,0.670,0.635,0.778,0.817,0.725,(2.5746)+(-0.0019)Gly+(-0.0037)Gln+(-0.0575)Val+(0.0176)Orn+(0.1533)Ile;0.754,0.790,0.768,0.754,0.774,0.814,0.763,0.776,(7.2719)+(-0.1005)His+(-0.0281)Cit+(0.0038)Arg+(0.0083)Pro+(-0.0880)Met;0.754,0.782,0.756,0.736,0.763,0.794,0.766,0.765,(7.2809)+(-0.0095)Asn+(-0.1168)His+(-0.0264)Cit+(-0.0124)Tyr+(0.0150)Leu;0.754,0.785,0.781,0.769,0.785,0.819,0.776,0.787,(1.4571)+(0.0068)Gln+(-0.0786)Cit+(-0.2596)Met+(-0.0124)Lys+(0.0632)Ile;0.754,0.792,0.765,0.791,0.768,0.816,0.651,0.756,(1.5660)+(0.0430)Ser+(-0.0811)Asn+(-0.0081)Arg+(-0.1719)Met+(0.0013)Lys;0.754,0.790,0.768,0.762,0.777,0.831,0.722,0.773,(7.1060)+(0.0046)Gly+(-0.1057)His+(-0.0319)Cit+(0.0129)Tyr+(-0.0735)Met;0.754,0.776,0.706,0.690,0.642,0.783,0.826,0.735,(2.6085)+(-0.0012)Gly+(-0.0026)Gln+(-0.0024)Thr+(-0.0558)Val+(0.1544)Ile;0.754,0.800,0.745,0.745,0.726,0.840,0.717,0.757,(0.8538)+(0.0394)Ser+(-0.0377)Val+(-0.2776)Met+(-0.0039)Lys+(0.0726)Leu;0.754,0.786,0.774,0.786,0.763,0.848,0.709,0.777,(3.0723)+(0.0382)Ser+(-0.1183)Asn+(-0.0055)Ala+(-0.0698)Cit+(-0.0001)Arg;0.754,0.790,0.751,0.766,0.755,0.819,0.655,0.749,(1.1735)+(0.0418)Ser+(-0.0898)Asn+(-0.1786)Met+(0.0224)Orn+(-0.0036)Lys;0.754,0.791,0.763,0.742,0.768,0.799,0.780,0.772,(6.81

77)+(-0.1214)His+(-0.0005)Arg+(-0.1043)Met+(0.0065)Lys+(0.0159)Leu;0.754,0.787,0.790,0.807,0.771,0.852,0.741,0.793,(2.0213)+(0.0345)Ser+(-0.1407)Asn+(0.0047)Gln+(-0.0057)Ala+(-0.0781)Cit;0.754,0.785,0.724,0.700,0.687,0.830,0.790,0.752,(-1.5203)+(0.0287)Ser+(-0.0160)Ala+(-0.1057)Cit+(0.0590)Ile+(0.0262)Phe;0.754,0.791,0.769,0.749,0.746,0.859,0.803,0.789,(2.9949)+(0.0050)Gly+(-0.0124)Ala+(-0.0985)Cit+(-0.0172)Lys+(0.0752)Ile;0.754,0.785,0.789,0.770,0.764,0.855,0.845,0.808,(4.4559)+(-0.0430)Asn+(-0.0110)Ala+(-0.0816)Cit+(-0.0118)Lys+(0.0658)Ile;0.754,0.792,0.741,0.756,0.716,0.826,0.695,0.748,(0.6554)+(0.0380)Ser+(-0.0070)Ala+(0.0159)Pro+(-0.2473)Met+(-0.0029)Lys;0.754,0.790,0.763,0.758,0.771,0.816,0.719,0.766,(6.8026)+(0.0043)Gly+(-0.1100)His+(-0.0295)Cit+(-0.0891)Met+(0.0097)Lys;0.754,0.789,0.726,0.744,0.726,0.789,0.633,0.723,(2.7702)+(0.0396)Ser+(-0.1281)Asn+(-0.0689)Cit+(0.0083)Pro+(-0.0377)Tyr;0.754,0.786,0.767,0.757,0.765,0.810,0.772,0.776,(7.3964)+(-0.0091)Asn+(-0.1143)His+(-0.0021)Arg+(-0.0073)Tyr+(0.0020)Val;0.754,0.780,0.756,0.735,0.763,0.798,0.763,0.765,(7.0345)+(-0.0240)Asn+(-0.1133)His+(-0.0263)Cit+(0.0053)Pro+(0.0045)Lys;0.754,0.782,0.675,0.655,0.656,0.784,0.692,0.697,(-2.2968)+(0.0229)Ser+(-0.0999)Cit+(0.1604)Ile+(-0.0992)Leu+(0.0475)Phe;0.754,0.786,0.757,0.750,0.718,0.826,0.807,0.775,(3.1419)+(0.0497)Ser+(-0.1726)Asn+(-0.0061)Gly+(-0.0445)Val+(0.0664)Leu;0.754,0.777,0.705,0.694,0.637,0.784,0.821,0.734,(1.4485)+(-0.0033)Gly+(-0.0462)Val+(0.0106)Orn+(0.1752)Ile+(-0.0350)Leu;0.754,0.782,0.759,0.740,0.765,0.804,0.761,0.768,(7.2358)+(-0.0185)Asn+(-0.1094)His+(-0.0272)Cit+(0.0008)Arg+(0.0057)Pro;0.754,0.778,0.749,0.729,0.756,0.796,0.753,0.758,(6.7295)+(-0.1179)His+(-0.0264)Cit+(0.0053)Pro+(-0.0007)Val+(0.0032)Lys;0.754,0.792,0.699,0.683,0.652,0.804,0.764,0.726,(-0.8901)+(0.0361)Ser+(-0.0212)Thr+(-0.0139)Lys+(0.1582)Ile+(-0.0820)Leu;0.754,0.781,0.775,0.788,0.780,0.829,0.691,0.772,(6.1176)+(-0.0

942)Asn+(-0.0970)Cit+(-0.0302)Tyr+(-0.0123)Val+(0.0652)Orn;0.754,0.781,0.748,0.733,0.751,0.793,0.752,0.757,(6.7002)+(-0.1212)His+(-0.0093)Arg+(0.0057)Pro+(-0.0023)Val+(0.0062)Lys;0.754,0.787,0.765,0.744,0.776,0.803,0.772,0.774,(7.0726)+
(-0.1156)His+(-0.0252)Cit+(-0.1010)Met+(0.0061)Lys+(0.0163)Leu;0.754,0.787,0.777,0.777,0.775,0.756,0.797,0.776,(-1.2233)+(-0.0449)Asn+(0.0056)Gln+(-0.3370)Met+(0.0378)Ile+(0.0686)Phe;0.754,0.781,0.746,0.717,0.755,0.793,0.767,0.758,(6.6136)+(-0.1238)His+(-0.0281)Cit+(0.0003)Arg+(0.0035)Pro+(0.0112)Leu;0.754,0.790,0.743,0.760,0.738,0.798,0.668,0.741,(0.2030)+(0.0429)Ser+(-0.0920)Asn+(0.0027)Gln+(0.0093)Pro+(-0.2311)Met;0.754,0.790,0.777,0.804,0.767,0.830,0.692,0.773,(0.5778)+(0.0398)Ser+(-0.0983)Asn+(0.0036)Gln+(-0.1824)Met+(-0.0010)Lys;0.753,0.783,0.783,0.784,0.788,0.837,0.736,0.786,(5.5567)+(-0.0732)Asn+(-0.0075)Ala+(-0.1112)Cit+(-0.0273)Tyr+(0.0614)Orn;0.753,0.789,0.767,0.756,0.773,0.810,0.755,0.773,(7.4046)+(-0.0997)His+(-0.0250)Cit+(0.0084)Pro+(-0.0026)Tyr+(-0.0795)Met;0.753,0.789,0.777,0.789,0.768,0.815,0.739,0.778,(1.7215)+(0.0516)Ser+(-0.0806)Asn+(-0.0066)Gly+(-0.1767)Met+(-0.0008)Lys;0.753,0.789,0.778,0.793,0.770,0.815,0.727,0.776,(1.8681)+(0.0519)Ser+(-0.0762)Asn+(-0.0066)Gly+(-0.0072)Arg+(-0.1719)Met;0.753,0.781,0.782,0.775,0.780,0.826,0.771,0.788,(7.8992)+(-0.0024)Asn+(-0.0995)His+(-0.0017)Ala+(-0.0262)Cit+(-0.0322)Met;0.753,0.780,0.716,0.707,0.643,0.789,0.840,0.745,(0.7345)+(-0.0056)Thr+(-0.0055)Pro+(-0.0563)Val+(0.1538)Ile+(0.0237)Phe;0.753,0.791,0.763,0.743,0.768,0.799,0.780,0.772,(6.8200)+(-0.1214)His+(-0.0014)Tyr+(-0.1028)Met+(0.0064)Lys+(0.0161)Leu;0.753,0.782,0.749,0.745,0.747,0.798,0.725,0.754,(6.7138)+(0.0030)Gly+(-0.1225)His+(-0.0096)Arg+(-0.0091)Tyr+(0.0080)Lys;0.753,0.788,0.777,0.804,0.766,0.840,0.683,0.773,(2.2266)+(0.0403)Ser+(-0.0949)Asn+(-0.0061)Val+(-0.1531)Met+(0.0030)Lys;0.753,0.782,0.750,0.730,0.755

,0.790,0.762,0.759,(7.0037)+(-0.1213)His+(-0.0262)Cit+(-0.0152)Tyr+(0
.0024)Lys+(0.0143)Leu;0.753,0.781,0.675,0.663,0.607,0.784,0.772,0.706
,(-0.6905)+(0.0167)Ser+(-0.0448)Val+(0.0011)Orn+(0.1773)Ile+(-0.0372)
Leu;0.753,0.786,0.776,0.793,0.763,0.850,0.703,0.777,(3.4261)+(0.0377)
Ser+(-0.1192)Asn+(-0.0045)Ala+(-0.0648)Cit+(-0.0037)Val;0.753,0.793,0
.757,0.759,0.764,0.827,0.684,0.759,(1.2564)+(0.0389)Ser+(-0.0048)Ala+
(-0.0741)Cit+(-0.2240)Met+(0.0166)Leu;0.753,0.790,0.768,0.761,0.768,0
.825,0.743,0.774,(6.9653)+(0.0037)Gly+(-0.1114)His+(-0.0018)Arg+(0.01
05)Tyr+(-0.0698)Met;0.753,0.788,0.777,0.767,0.771,0.818,0.784,0.785,(
7.0571)+(-0.1128)His+(-0.0016)Ala+(0.0037)Tyr+(-0.0796)Met+(0.0096)Ly
s;0.753,0.781,0.756,0.748,0.761,0.815,0.722,0.761,(6.9879)+(0.0037)Gl
y+(-0.1124)His+(-0.0306)Cit+(-0.0005)Arg+(-0.0019)Tyr;0.753,0.787,0.7
84,0.773,0.755,0.830,0.836,0.799,(3.0970)+(-0.0076)Ala+(-0.0021)Arg+(
-0.2029)Met+(-0.0082)Lys+(0.0699)Ile;0.753,0.785,0.770,0.783,0.770,0.
762,0.744,0.765,(0.9766)+(-0.0551)Asn+(0.0263)Thr+(-0.0057)Ala+(-0.29
87)Met+(0.0961)Phe;0.753,0.791,0.753,0.773,0.760,0.802,0.651,0.747,(0
.9883)+(0.0449)Ser+(-0.0776)Asn+(-0.0072)Arg+(-0.1952)Met+(0.0082)Leu
;0.753,0.790,0.750,0.769,0.750,0.813,0.654,0.747,(1.1861)+(0.0414)Ser
+(-0.0942)Asn+(-0.0072)Tyr+(-0.1762)Met+(0.0215)Orn;0.753,0.792,0.721
,0.696,0.663,0.828,0.831,0.754,(-0.4769)+(0.0437)Ser+(-0.0071)Gly+(-0
.0113)Ala+(-0.0264)Lys+(0.0655)Ile;0.753,0.782,0.796,0.794,0.762,0.83
4,0.841,0.808,(1.2088)+(-0.0347)Asn+(0.0049)Gln+(-0.0077)Ala+(-0.2284
)Met+(0.0616)Ile;0.753,0.797,0.705,0.683,0.719,0.783,0.677,0.716,(0.6
283)+(0.0433)Ser+(-0.1505)Asn+(-0.0730)Cit+(-0.0075)Arg+(0.0373)Ile;0
.753,0.793,0.738,0.717,0.768,0.797,0.688,0.743,(3.3260)+(0.0278)Thr+(
-0.0805)Cit+(-0.3015)Met+(-0.0132)Lys+(0.0645)Ile;0.753,0.788,0.760,0
.758,0.762,0.810,0.727,0.764,(6.7301)+(0.0037)Gly+(-0.1163)His+(-0.00
75)Arg+(-0.0876)Met+(0.0117)Lys;0.753,0.788,0.742,0.724,0.773,0.779,0

.698,0.744,(3.0444)+(-0.0295)Asn+(0.0261)Thr+(-0.0797)Cit+(-0.3071)Met+(0.0547)Ile;0.753,0.784,0.785,0.769,0.792,0.836,0.778,0.793,(3.4192)+(-0.0932)Asn+(-0.0106)Ala+(-0.1131)Cit+(0.0515)Orn+(0.0499)Phe;0.753,0.790,0.768,0.765,0.773,0.828,0.725,0.773,(7.2249)+(0.0041)Gly+(-0.1037)His+(-0.0330)Cit+(0.0032)Arg+(-0.0565)Met;0.753,0.782,0.780,0.771,0.777,0.826,0.779,0.788,(7.8123)+(-0.0134)Asn+(-0.1017)His+(-0.0023)Ala+(-0.0299)Cit+(0.0033)Arg;0.753,0.794,0.704,0.681,0.715,0.782,0.685,0.716,(0.5747)+(0.0427)Ser+(-0.1570)Asn+(-0.0780)Cit+(-0.0013)Pro+(0.0384)Ile;0.753,0.782,0.685,0.660,0.627,0.769,0.811,0.717,(1.8853)+(-0.0046)Gln+(-0.0588)Val+(0.0148)Orn+(0.1518)Ile+(0.0231)Phe;0.753,0.785,0.722,0.737,0.669,0.771,0.756,0.733,(2.2635)+(-0.0083)Thr+(-0.0531)Tyr+(0.0147)Orn+(0.1563)Ile+(-0.0874)Leu;0.753,0.780,0.751,0.724,0.759,0.797,0.770,0.763,(6.7565)+(-0.1244)His+(-0.0285)Cit+(0.0015)Arg+(0.0001)Lys+(0.0134)Leu;0.753,0.779,0.757,0.749,0.753,0.794,0.757,0.763,(7.1062)+(-0.1203)His+(-0.0075)Arg+(-0.0127)Tyr+(0.0008)Val+(0.0077)Lys;0.753,0.785,0.742,0.747,0.742,0.792,0.692,0.743,(-0.0996)+(0.0465)Ser+(-0.0075)Gly+(0.0103)Thr+(-0.3137)Met+(0.0095)Leu;0.753,0.781,0.777,0.772,0.788,0.848,0.718,0.781,(4.6231)+(-0.0898)Asn+(0.0041)Gly+(-0.0089)Ala+(-0.1201)Cit+(0.0588)Orn;0.753,0.788,0.782,0.778,0.764,0.837,0.793,0.793,(5.0834)+(-0.0822)Asn+(-0.0460)Val+(-0.1602)Met+(0.0417)Orn+(0.0687)Leu;0.753,0.787,0.770,0.760,0.768,0.812,0.772,0.778,(7.2608)+(0.0058)Asn+(-0.1129)His+(-0.0003)Arg+(0.0032)Val+(-0.0619)Met;0.753,0.786,0.780,0.792,0.743,0.831,0.789,0.788,(2.2520)+(-0.0969)Asn+(0.0061)Gln+(-0.0280)Arg+(0.1543)Ile+(-0.0894)Leu;0.753,0.786,0.772,0.784,0.763,0.847,0.702,0.774,(3.1546)+(0.0367)Ser+(-0.1251)Asn+(0.0047)Thr+(-0.0059)Ala+(-0.0721)Cit;0.752,0.780,0.749,0.742,0.753,0.805,0.719,0.755,(6.7010)+(0.0035)Gly+(-0.1169)His+(-0.0300)Cit+(-0.0071)Tyr+(0.0051)Lys;0.752,0.786,0.770,0.791,0.741,0.856,0.711,0.775,(2

.7880)+(0.0344)Ser+(-0.1477)Asn+(-0.0039)Ala+(-0.0117)Val+(0.0311)Orn
;0.752,0.786,0.770,0.759,0.769,0.806,0.774,0.777,(6.9836)+(-0.0017)As
n+(-0.1154)His+(0.0013)Val+(-0.0851)Met+(0.0092)Lys;0.752,0.786,0.730
,0.704,0.693,0.836,0.799,0.758,(-0.5670)+(0.0307)Ser+(-0.0020)Gly+(-0
.0151)Ala+(-0.0996)Cit+(0.0640)Ile;0.752,0.781,0.755,0.771,0.756,0.75
4,0.712,0.748,(-0.2281)+(0.0012)Gly+(0.0231)Thr+(-0.0057)Ala+(-0.3499
)Met+(0.0997)Phe;0.752,0.781,0.780,0.771,0.778,0.827,0.777,0.788,(7.8
619)+(-0.0111)Asn+(-0.1021)His+(-0.0023)Ala+(-0.0275)Cit+(0.0014)Tyr;
0.752,0.785,0.765,0.744,0.776,0.803,0.773,0.774,(7.2911)+(-0.1121)His
+(-0.0257)Cit+(0.0015)Tyr+(-0.0851)Met+(0.0181)Leu;0.752,0.785,0.780,
0.757,0.756,0.846,0.845,0.801,(2.6599)+(-0.0130)Ala+(-0.0921)Cit+(-0.
0194)Lys+(0.0652)Ile+(0.0401)Phe;0.752,0.789,0.755,0.733,0.782,0.752,
0.763,0.757,(0.8943)+(-0.0733)Cit+(0.0044)Arg+(-0.3209)Met+(0.0452)Il
e+(0.0719)Phe;0.752,0.783,0.751,0.730,0.757,0.793,0.765,0.761,(7.0017
)+(-0.1204)His+(-0.0289)Cit+(0.0031)Arg+(-0.0142)Tyr+(0.0155)Leu;0.75
2,0.777,0.712,0.700,0.640,0.780,0.848,0.742,(1.0653)+(-0.0021)Gly+(-0
.0057)Thr+(-0.0563)Val+(0.1480)Ile+(0.0191)Phe;0.752,0.787,0.770,0.75
8,0.769,0.814,0.774,0.779,(7.2158)+(0.0062)Asn+(-0.1132)His+(0.0027)T
yr+(0.0031)Val+(-0.0668)Met;0.752,0.780,0.763,0.757,0.759,0.794,0.764
,0.769,(7.3532)+(-0.0181)Asn+(-0.1158)His+(-0.0065)Arg+(-0.0116)Tyr+(
0.0087)Lys;0.752,0.784,0.779,0.770,0.777,0.821,0.775,0.786,(7.4014)+(
-0.1062)His+(-0.0018)Ala+(-0.0252)Cit+(-0.0685)Met+(0.0096)Lys;0.752,
0.782,0.767,0.787,0.759,0.760,0.736,0.760,(-1.2192)+(0.0032)Gln+(0.02
16)Thr+(-0.0057)Ala+(-0.3644)Met+(0.0980)Phe;0.752,0.790,0.777,0.804,
0.767,0.828,0.692,0.773,(0.5485)+(0.0398)Ser+(-0.0992)Asn+(0.0035)Gln
+(-0.0006)Tyr+(-0.1848)Met;0.752,0.784,0.774,0.780,0.726,0.823,0.824,
0.788,(2.0796)+(-0.1207)Asn+(0.0045)Gln+(-0.0048)Pro+(0.1491)Ile+(-0.
0841)Leu;0.752,0.782,0.754,0.743,0.755,0.799,0.747,0.761,(7.2120)+(-0

.1085)His+(-0.0258)Cit+(-0.0003)Arg+(0.0070)Pro+(-0.0154)Tyr;0.752,0.781,0.789,0.775,0.804,0.855,0.744,0.795,(5.5596)+(-0.0654)Asn+(-0.0082)Ala+(-0.1159)Cit+(0.0644)Orn+(-0.0098)Lys;0.752,0.792,0.672,0.646,0.648,0.792,0.707,0.698,(0.0212)+(0.0307)Ser+(-0.0027)Gln+(-0.0206)Lys+(0.1434)Ile+(-0.0740)Leu;0.752,0.790,0.752,0.768,0.756,0.807,0.663,0.748,(0.8387)+(0.0449)Ser+(-0.0793)Asn+(-0.1981)Met+(-0.0028)Lys+(0.0099)Leu;0.752,0.794,0.719,0.704,0.723,0.790,0.703,0.730,(-0.1734)+(0.0400)Ser+(-0.1769)Asn+(0.0037)Gln+(-0.0845)Cit+(0.0350)Ile;0.752,0.781,0.785,0.789,0.780,0.790,0.779,0.785,(1.1355)+(-0.0054)Ala+(-0.2433)Met+(0.0220)Orn+(-0.0088)Lys+(0.0875)Phe;0.752,0.790,0.765,0.791,0.768,0.818,0.652,0.757,(1.5966)+(0.0430)Ser+(-0.0801)Asn+(-0.0076)Arg+(0.0011)Tyr+(-0.1697)Met;0.752,0.781,0.703,0.693,0.630,0.787,0.822,0.733,(0.2522)+(-0.0070)Pro+(-0.0578)Val+(0.0104)Orn+(0.1540)Ile+(0.0199)Phe;0.752,0.786,0.782,0.772,0.753,0.829,0.836,0.797,(3.0973)+(-0.0076)Ala+(-0.0039)Tyr+(-0.1993)Met+(-0.0086)Lys+(0.0703)Ile;0.752,0.777,0.694,0.672,0.636,0.778,0.811,0.724,(2.4863)+(-0.0036)Gln+(-0.0048)Thr+(-0.0566)Val+(0.0186)Orn+(0.1525)Ile;0.752,0.782,0.771,0.759,0.778,0.811,0.757,0.777,(7.4983)+(0.0063)Asn+(-0.1079)His+(-0.0264)Cit+(0.0038)Val+(-0.0604)Met;0.752,0.780,0.780,0.778,0.744,0.824,0.832,0.794,(0.8949)+(0.0037)Gln+(-0.0080)Ala+(-0.2579)Met+(0.0036)Orn+(0.0638)Ile;0.752,0.781,0.763,0.773,0.766,0.768,0.723,0.758,(0.5552)+(0.0267)Thr+(-0.0053)Ala+(-0.3275)Met+(-0.0101)Lys+(0.1037)Phe;0.752,0.790,0.777,0.789,0.766,0.814,0.738,0.777,(1.8042)+(0.0514)Ser+(-0.0818)Asn+(-0.0067)Gly+(-0.0046)Tyr+(-0.1702)Met;0.751,0.787,0.740,0.765,0.744,0.800,0.622,0.733,(3.0968)+(0.0370)Ser+(-0.1313)Asn+(0.0054)Thr+(-0.0674)Cit+(-0.0292)Tyr;0.751,0.776,0.693,0.687,0.619,0.775,0.805,0.721,(0.0468)+(-0.0452)Val+(0.0040)Orn+(0.1761)Ile+(-0.0413)Leu+(0.0263)Phe;0.751,0.782,0.785,0.766,0.757,0.843,0.853,0.805,(3.8446)+(-0.0724)Asn+(

-0.0120)Ala+(-0.0891)Cit+(0.0075)Arg+(0.0586)Ile;0.751,0.789,0.749,0.759,0.742,0.810,0.696,0.752,(0.2157)+(0.0446)Ser+(-0.0081)Gly+(0.0066)Thr+(-0.2879)Met+(0.0159)Orn;0.751,0.789,0.775,0.803,0.770,0.837,0.665,0.769,(2.4411)+(0.0410)Ser+(-0.0863)Asn+(-0.0074)Arg+(-0.0053)Val+(-0.1367)Met;0.751,0.787,0.714,0.714,0.749,0.824,0.559,0.712,(2.1833)+(0.0265)Ser+(-0.1151)Cit+(-0.0409)Tyr+(0.0566)Orn+(-0.0209)Lys;0.751,0.778,0.747,0.738,0.755,0.803,0.715,0.753,(6.6413)+(0.0038)Gly+(-0.1192)His+(-0.0272)Cit+(-0.0048)Arg+(0.0054)Lys;0.751,0.786,0.781,0.799,0.781,0.844,0.688,0.778,(1.2822)+(0.0322)Ser+(0.0030)Gln+(-0.0035)Ala+(-0.0737)Cit+(-0.2059)Met;0.751,0.778,0.770,0.761,0.766,0.815,0.772,0.779,(7.3249)+(-0.1104)His+(-0.0027)Ala+(-0.0271)Cit+(-0.0048)Tyr+(0.0063)Lys;0.751,0.778,0.713,0.700,0.644,0.791,0.839,0.743,(1.4359)+(-0.0033)Gly+(-0.0059)Pro+(-0.

0571)Val+(0.0151)Orn+(0.1556)Ile;0.751,0.785,0.725,0.726,0.717,0.780,0.702,0.731,(-0.2915)+(0.0508)Ser+(-0.0074)Gly+(0.0100)Pro+(-0.3100)Met+(0.0046)Leu;0.751,0.782,0.772,0.809,0.746,0.756,0.739,0.763,(3.3958)+(-0.1225)Asn+(-0.0552)Tyr+(-0.0204)Val+(0.0381)Orn+(0.0975)Phe;0.751,0.787,0.771,0.776,0.754,0.774,0.791,0.774,(0.7046)+(-0.0087)Ala+(0.0122)Pro+(-0.2869)Met+(0.0119)Orn+(0.0849)Phe;0.751,0.783,0.769,0.781,0.777,0.840,0.667,0.766,(1.9805)+(0.0358)Ser+(-0.0036)Ala+(-0.0699)Cit+(0.0013)Val+(-0.1943)Met;0.751,0.788,0.787,0.802,0.771,0.835,0.746,0.789,(2.5566)+(0.0498)Ser+(-0.0880)Asn+(-0.0068)Gly+(-0.0055)Val+(-0.1466)Met;0.751,0.779,0.766,0.755,0.771,0.806,0.760,0.773,(7.5725)+(-0.0096)Asn+(-0.1096)His+(-0.0264)Cit+(-0.0073)Tyr+(0.0026)Val;0.751,0.779,0.788,0.813,0.786,0.764,0.743,0.776,(1.8276)+(-0.0613)Asn+(0.0035)Gly+(-0.0152)Val+(-0.2220)Met+(0.1160)Phe;0.751,0.794,0.706,0.680,0.718,0.779,0.700,0.719,(0.6273)+(0.0448)Ser+(-0.1568)Asn+(-0.0018)Gly+(-0.0756)Cit+(0.0353)Ile;0.751,0.786,0.756,0.753,0.752,0.752,0.777

,0.758,(1.1559)+(-0.0246)Tyr+(-0.2761)Met+(-0.0121)Lys+(0.0486)Ile+(0.0782)Phe;0.751,0.786,0.764,0.793,0.755,0.813,0.670,0.758,(1.9047)+(0.0349)Ser+(-0.1476)Asn+(0.0051)Gln+(-0.0746)Cit+(-0.0283)Tyr;0.751,0.782,0.804,0.800,0.804,0.856,0.780,0.810,(3.5132)+(-0.1103)Asn+(0.0055)Gln+(-0.0092)Ala+(-0.1190)Cit+(0.0531)Orn;0.751,0.778,0.771,0.759,0.768,0.818,0.773,0.780,(7.3284)+(-0.1114)His+(-0.0029)Ala+(-0.0255)Cit+(-0.0028)Arg+(0.0065)Lys;0.751,0.784,0.790,0.773,0.756,0.863,0.854,0.812,(2.1109)+(0.0048)Gln+(-0.0129)Ala+(-0.0991)Cit+(-0.0200)Lys+(0.0728)Ile;0.751,0.787,0.768,0.785,0.756,0.839,0.699,0.769,(1.2704)+(0.0419)Ser+(-0.0079)Gly+(0.0115)Thr+(-0.0046)Val+(-0.2675)Met;0.751,0.786,0.775,0.767,0.771,0.814,0.775,0.782,(7.2550)+(-0.1121)His+(-0.0015)Ala+(-0.0057)Arg+(-0.0706)Met+(0.0110)Lys;0.751,0.779,0.710,0.702,0.645,0.787,0.813,0.737,(1.4390)+(-0.0096)Thr+(-0.0431)Val+(0.0134)Orn+(0.1763)Ile+(-0.0389)Leu;0.751,0.783,0.775,0.773,0.789,0.805,0.730,0.774,(3.8398)+(-0.1338)Asn+(-0.0934)Cit+(-0.0215)Val+(0.0578)Orn+(0.0742)Phe;0.751,0.780,0.792,0.789,0.797,0.855,0.744,0.796,(5.8714)+(-0.0888)Asn+(-0.0063)Ala+(-0.1065)Cit+(-0.0099)Val+(0.0650)Orn;0.751,0.792,0.753,0.769,0.757,0.803,0.664,0.748,(0.8061)+(0.0446)Ser+(-0.0828)Asn+(-0.0012)Tyr+(-0.2018)Met+(0.0085)Leu;0.751,0.786,0.725,0.697,0.726,0.828,0.722,0.743,(2.8824)+(-0.1113)Cit+(0.0423)Orn+(-0.0173)Lys+(0.1448)Ile+(-0.0793)Leu;0.751,0.782,0.762,0.761,0.731,0.814,0.793,0.775,(0.8324)+(0.0028)Gln+(0.0158)Thr+(-0.0081)Ala+(-0.3054)Met+(0.0652)Ile;0.751,0.783,0.768,0.796,0.756,0.759,0.728,0.760,(0.9773)+(-0.0259)Tyr+(-0.0163)Val+(-0.2483)Met+(0.0287)Orn+(0.1134)Phe;0.750,0.783,0.719,0.732,0.675,0.768,0.739,0.729,(2.6677)+(-0.0532)Tyr+(0.0153)Orn+(-0.0101)Lys+(0.1501)Ile+(-0.0796)Leu;0.750,0.790,0.764,0.788,0.763,0.817,0.667,0.759,(1.4139)+(0.0426)Ser+(-0.0854)Asn+(0.0007)Tyr+(-0.1776)Met+(-0.0000)Lys;0.750,0.790,0.777,0.800,0.768,0.843,0.683,0.774,(2.

1661)+(0.0409)Ser+(-0.0908)Asn+(0.0053)Tyr+(-0.0056)Val+(-0.1549)Met;0.750,0.784,0.792,0.794,0.759,0.831,0.826,0.802,(1.0371)+(0.0049)Gln+(-0.0077)Ala+(-0.0125)Arg+(-0.2446)Met+(0.0646)Ile;0.750,0.780,0.774,0.763,0.749,0.816,0.825,0.788,(2.5398)+(-0.0177)Asn+(-0.0080)Ala+(-0.2153)Met+(0.0107)Orn+(0.0605)Ile;0.750,0.776,0.704,0.686,0.634,0.779,0.841,0.735,(0.8353)+(-0.0036)Gly+(-0.0578)Val+(0.0105)Orn+(0.1469)Ile+(0.0140)Phe;0.750,0.787,0.711,0.731,0.728,0.793,0.566,0.704,(0.3809)+(0.0384)Ser+(0.0099)Thr+(-0.0184)Arg+(0.0105)Pro+(-0.3055)Met;0.750,0.779,0.769,0.764,0.741,0.816,0.810,0.783,(2.2899)+(-0.0183)Asn+(0.0028)Gly+(-0.0079)Ala+(-0.2195)Met+(0.0664)Ile;0.750,0.778,0.763,0.748,0.769,0.801,0.763,0.770,(7.3130)+(-0.0215)Asn+(-0.1129)His+(-0.0255)Cit+(0.0003)Val+(0.0055)Lys;0.750,0.783,0.782,0.775,0.780,0.826,0.773,0.789,(7.7505)+(-0.1001)His+(-0.0017)Ala+(-0.0292)Cit+(0.0041)Arg+(-0.0393)Met;0.750,0.787,0.781,0.772,0.774,0.823,0.787,0.789,(7.5005)+(-0.1069)His+(-0.0015)Ala+(-0.0005)Arg+(0.0070)Tyr+(-0.0499)Met;0.750,0.786,0.771,0.762,0.769,0.807,0.772,0.778,(7.0409)+(-0.0043)Asn+(-0.1137)His+(0.0008)Tyr+(-0.0828)Met+(0.0096)Lys;0.750,0.785,0.773,0.758,0.784,0.839,0.740,0.780,(4.2981)+(-0.0104)Ala+(-0.1078)Cit+(0.0132)Pro+(-0.1636)Met+(0.0508)Orn;0.750,0.784,0.777,0.788,0.776,0.753,0.763,0.770,(-0.8740)+(0.0049)Gln+(0.0069)Pro+(-0.3386)Met+(-0.0099)Lys+(0.0915)Phe;0.750,0.780,0.727,0.746,0.669,0.774,0.764,0.738,(1.9980)+(0.0011)Gln+(-0.0072)Thr+(-0.0518)Tyr+(0.1586)Ile+(-0.0868)Leu;0.750,0.780,0.766,0.751,0.772,0.808,0.765,0.774,(7.4308)+(-0.0138)Asn+(-0.1111)His+(-0.0283)Cit+(0.0021)Arg+(0.0019)Val;0.750,0.786,0.772,0.745,0.747,0.843,0.842,0.794,(3.7116)+(-0.0142)Ala+(-0.0910)Cit+(0.0080)Pro+(-0.0164)Lys+(0.0656)Ile;0.750,0.785,0.778,0.750,0.751,0.857,0.852,0.802,(3.5670)+(-0.0128)Ala+(-0.1002)Cit+(0.0132)Arg+(-0.0197)Lys+(0.0738)Ile;0.750,0.784,0.728,0.725,0.735,0.719,0.726,0.726,(-2.0295)+(0.00

31)Gln+(0.0191)Thr+(-0.4393)Met+(0.0411)Ile+(0.0750)Phe;0.750,0.780,0.752,0.732,0.761,0.801,0.754,0.762,(6.9758)+(-0.1144)His+(-0.0259)Cit+(-0.0012)Arg+(0.0055)Pro+(0.0000)Val;0.750,0.786,0.734,0.741,0.719,0.783,0.709,0.738,(-0.3194)+(0.0489)Ser+(-0.0077)Gly+(0.0011)Gln+(0.0104)Pro+(-0.3047)Met;0.750,0.778,0.806,0.836,0.784,0.780,0.791,0.798,(-0.5083)+(0.0047)Gln+(-0.0029)Ala+(-0.0126)Val+(-0.2905)Met+(0.1117)Phe;0.750,0.783,0.781,0.786,0.768,0.771,0.800,0.781,(1.4856)+(-0.0295)Asn+(-0.0083)Ala+(0.0124)Pro+(-0.2524)Met+(0.0875)Phe;0.750,0.788,0.706,0.688,0.643,0.824,0.803,0.739,(-1.8074)+(0.0353)Ser+(-0.0121)Ala+(-0.0288)Lys+(0.0608)Ile+(0.0308)Phe;0.750,0.789,0.660,0.603,0.707,0.808,0.605,0.681,(-0.2414)+(0.0334)Ser+(-0.1194)Cit+(0.0410)Orn+(-0.0352)Lys+(0.0464)Ile;0.750,0.778,0.749,0.729,0.757,0.795,0.751,0.758,(6.7843)+(-0.1186)His+(-0.0235)Cit+(-0.0041)Arg+(0.0052)Pro+(0.0040)Lys;0.750,0.782,0.779,0.788,0.768,0.766,0.787,0.777,(1.2373)+(-0.0083)Ala+(-0.0082)Arg+(0.0128)Pro+(-0.2712)Met+(0.0894)Phe;0.750,0.779,0.757,0.769,0.757,0.756,0.728,0.753,(-0.0774)+(0.0223)Thr+(-0.0059)Ala+(-0.3436)Met+(0.0057)Orn+(0.0959)Phe;0.750,0.779,0.772,0.792,0.768,0.747,0.745,0.763,(1.5033)+(-0.0077)Arg+(0.0110)Pro+(-0.0164)Val+(-0.2997)Met+(0.1115)Phe;0.750,0.780,0.769,0.758,0.768,0.836,0.754,0.779,(5.8012)+(-0.1311)Asn+(-0.0872)Cit+(-0.0413)Val+(0.0631)Orn+(0.0518)Leu;0.750,0.779,0.727,0.741,0.678,0.773,0.757,0.737,(2.8293)+(-0.0024)Thr+(-0.0493)Tyr+(-0.0070)Lys+(0.1553)Ile+(-0.0814)Leu;0.749,0.783,0.770,0.783,0.777,0.843,0.667,0.767,(2.1858)+(0.0355)Ser+(-0.0033)Ala+(-0.0683)Cit+(-0.1850)Met+(-0.0015)Lys;0.749,0.782,0.728,0.746,0.672,0.776,0.763,0.739,(2.4380)+(-0.0055)Thr+(-0.0017)Pro+(-0.0504)Tyr+(0.1611)Ile+(-0.0867)Leu;0.749,0.784,0.734,0.747,0.682,0.776,0.774,0.745,(3.2434)+(-0.0024)Gly+(-0.0522)Tyr+(-0.0068)Lys+(0.1546)Ile+(-0.0813)Leu;0.749,0.778,0.762,0.750,0.768,0.801,0.755,0.768,(7.3392)+(-0.1131)His+(

-0.0279)Cit+(0.0016)Arg+(-0.0089)Tyr+(0.0031)Val;0.749,0.786,0.762,0.778,0.752,0.819,0.702,0.763,(0.2036)+(0.0431)Ser+(-0.0080)Gly+(0.0013)Gln+(0.0096)Thr+(-0.2901)Met;0.749,0.784,0.697,0.673,0.673,0.807,0.729,0.721,(-0.4171)+(0.0270)Ser+(-0.0043)Gly+(-0.0871)Cit+(0.1569)Ile+(-0.0891)Leu;0.749,0.794,0.694,0.680,0.656,0.799,0.738,0.718,(-0.4882)+(0.0269)Ser+(-0.0059)Pro+(-0.0213)Lys+(0.1524)Ile+(-0.0758)Leu;0.749,0.782,0.752,0.747,0.708,0.816,0.813,0.771,(3.2369)+(-0.0138)Ala+(-0.0887)Cit+(0.0099)Pro+(-0.0393)Tyr+(0.0569)Ile;0.749,0.787,0.727,0.730,0.718,0.786,0.697,0.733,(-0.2351)+(0.0492)Ser+(-0.0078)Gly+(0.0096)Pro+(-0.3068)Met+(0.0126)Orn;0.749,0.787,0.702,0.715,0.678,0.771,0.666,0.708,(0.5826)+(0.0430)Ser+(-0.1269)Asn+(-0.0164)Arg+(-0.0450)Tyr+(0.0446)Ile;0.749,0.780,0.761,0.779,0.760,0.755,0.718,0.753,(0.0279)+(0.0238)Thr+(-0.0053)Ala+(-0.3418)Met+(-0.0055)Leu+(0.1032)Phe;0.749,0.785,0.772,0.779,0.783,0.841,0.678,0.770,(1.8197)+(0.0365)Ser+(-0.0037)Ala+(-0.0699)Cit+(0.0137)Tyr+(-0.2144)Met;0.749,0.784,0.776,0.783,0.777,0.833,0.715,0.777,(2.1616)+(0.0425)Ser+(-0.0052)Gly+(-0.0030)Ala+(-0.0621)Cit+(-0.1957)Met;0.749,0.784,0.780,0.771,0.796,0.814,0.748,0.782,(1.7945)+(-0.0078)Ala+(-0.1020)Cit+(-0.2129)Met+(0.0453)Orn+(0.0811)Phe;0.749,0.785,0.747,0.755,0.786,0.738,0.653,0.733,(1.4735)+(-0.0511)Asn+(0.0321)Thr+(-0.0785)Cit+(-0.3373)Met+(0.0992)Phe;0.749,0.781,0.765,0.755,0.767,0.797,0.761,0.770,(7.4707)+(-0.0212)Asn+(-0.1101)His+(-0.0244)Cit+(-0.0102)Tyr+(0.0070)Lys;0.749,0.780,0.667,0.648,0.599,0.776,0.781,0.701,(-1.4701)+(0.0166)Ser+(-0.0568)Val+(0.0010)Orn+(0.1444)Ile+(0.0177)Phe;0.749,0.793,0.711,0.706,0.646,0.824,0.778,0.738,(-0.1861)+(0.0328)Ser+(-0.0098)Ala+(-0.0321)Tyr+(-0.0222)Lys+(0.0692)Ile;0.749,0.781,0.761,0.805,0.741,0.727,0.710,0.746,(3.4892)+(-0.1531)Asn+(0.0242)Thr+(-0.0645)Tyr+(-0.0196)Val+(0.1139)Phe;0.749,0.786,0.756,0.779,0.752,0.839,0.641,0.753,(0.8075)+(0.0345)Ser+(-0.0037)Al

a+(-0.0158)Arg+(-0.2134)Met+(0.0238)Orn;0.749,0.784,0.774,0.783,0.778,0.820,0.708,0.772,(0.8575)+(0.0418)Ser+(-0.0061)Gly+(0.0033)Gln+(-0.0661)Cit+(-0.2441)Met;0.749,0.774,0.737,0.713,0.725,0.831,0.760,0.757,(1.3025)+(0.0038)Gly+(-0.0157)Ala+(-0.1323)Cit+(0.0399)Orn+(0.0524)Ile;0.749,0.780,0.774,0.764,0.752,0.817,0.812,0.787,(2.5401)+(-0.0080)Ala+(-0.0091)Arg+(-0.2198)Met+(0.0127)Orn+(0.0612)Ile;0.749,0.780,0.777,0.777,0.739,0.823,0.822,0.790,(0.7991)+(0.0013)Gly+(0.0036)Gln+(-0.0080)Ala+(-0.2602)Met+(0.0661)Ile;0.749,0.782,0.682,0.657,0.677,0.806,0.671,0.703,(-0.6666)+(0.0192)Ser+(-0.1108)Cit+(0.0242)Orn+(0.1525)Ile+(-0.0901)Leu;0.749,0.789,0.716,0.702,0.667,0.835,0.769,0.743,(-0.6329)+(0.0363)Ser+(-0.0109)Ala+(-0.0174)Arg+(-0.0217)Lys+(0.0667)Ile;0.749,0.780,0.744,0.738,0.755,0.740,0.738,0.743,(-0.1060)+(-0.0277)Asn+(0.0039)Gly+(-0.3304)Met+(0.0416)Ile+(0.0714)Phe;0.749,0.781,0.772,0.762,0.777,0.810,0.764,0.778,(7.3331)+(-0.0049)Asn+(-0.1079)His+(-0.0237)Cit+(-0.0772)Met+(0.0094)Lys;0.749,0.790,0.713,0.692,0.652,0.829,0.814,0.747,(-1.0929)+(0.0386)Ser+(-0.0112)Thr+(-0.0109)Ala+(-0.0228)Lys+(0.0694)Ile;0.749,0.781,0.782,0.778,0.755,0.851,0.802,0.796,(3.6242)+(-0.0037)Ala+(-0.0402)Val+(-0.2188)Met+(0.0358)Orn+(0.0654)Leu;0.749,0.780,0.776,0.767,0.772,0.826,0.775,0.785,(7.6133)+(-0.1052)His+(-0.0025)Ala+(-0.0291)Cit+(0.0018)Arg+(0.0004)Tyr;0.749,0.780,0.777,0.789,0.761,0.763,0.785,0.775,(1.0055)+(-0.0080)Ala+(0.0135)Pro+(-0.2772)Met+(-0.0085)Leu+(0.0963)P

he;0.749,0.786,0.769,0.758,0.769,0.806,0.773,0.777,(6.9590)+(-0.1158)His+(0.0002)Tyr+(0.0014)Val+(-0.0866)Met+(0.0091)Lys;0.749,0.783,0.769,0.783,0.776,0.841,0.665,0.766,(2.1180)+(0.0356)Ser+(-0.0034)Ala+(-0.0674)Cit+(-0.0013)Arg+(-0.1896)Met;0.749,0.777,0.757,0.746,0.761,0.794,0.753,0.763,(7.1393)+(-0.1164)His+(-0.0256)Cit+(-0.0124)Tyr+(0.0021)Val+(0.0051)Lys;0.749,0.781,0.726,0.744,0.676,0.775,0.750,0.736,(2.

3645)+(0.0012)Gln+(-0.0515)Tyr+(-0.0091)Lys+(0.1530)Ile+(-0.0799)Leu;0.749,0.787,0.745,0.735,0.766,0.788,0.698,0.747,(0.9391)+(0.0046)Gln+(0.0216)Thr+(-0.0882)Cit+(-0.3574)Met+(0.0578)Ile;0.749,0.783,0.760,0.760,0.771,0.752,0.741,0.756,(0.7752)+(0.0064)Pro+(-0.3062)Met+(0.0157)Orn+(-0.0103)Lys+(0.0854)Phe;0.749,0.780,0.727,0.742,0.677,0.776,0.756,0.738,(2.8213)+(-0.0021)Pro+(-0.0491)Tyr+(-0.0080)Lys+(0.1572)Ile+(-0.0809)Leu;0.749,0.780,0.763,0.767,0.719,0.813,0.807,0.777,(2.0143)+(-0.1248)Asn+(0.0010)Gly+(0.0040)Gln+(0.1412)Ile+(-0.0827)Leu;0.749,0.783,0.724,0.721,0.749,0.724,0.678,0.718,(-0.2452)+(0.0281)Thr+(-0.0213)Arg+(-0.4127)Met+(0.0412)Ile+(0.0783)Phe;0.749,0.789,0.742,0.741,0.722,0.820,0.730,0.753,(3.3027)+(0.0423)Ser+(-0.1647)Asn+(-0.0482)Cit+(-0.0392)Val+(0.0616)Leu;0.749,0.788,0.731,0.707,0.770,0.789,0.673,0.735,(2.3634)+(0.0212)Thr+(-0.0960)Cit+(-0.3276)Met+(0.0218)Orn+(0.0506)Ile;0.749,0.780,0.780,0.764,0.783,0.844,0.774,0.791,(4.8803)+(-0.0826)Asn+(-0.0118)Ala+(-0.1143)Cit+(0.0099)Pro+(0.0537)Orn;0.749,0.780,0.789,0.780,0.804,0.843,0.740,0.792,(5.0889)+(-0.0512)Asn+(-0.0072)Ala+(-0.1084)Cit+(-0.0902)Met+(0.0575)Orn;0.748,0.779,0.751,0.745,0.727,0.808,0.776,0.764,(1.7021)+(0.0011)Gly+(0.0172)Thr+(-0.0081)Ala+(-0.2937)Met+(0.0668)Ile;0.748,0.783,0.783,0.773,0.784,0.830,0.774,0.790,(7.7852)+(-0.1008)His+(-0.0019)Ala+(-0.0268)Cit+(0.0086)Tyr+(-0.0465)Met;0.748,0.787,0.763,0.778,0.747,0.845,0.696,0.767,(1.7248)+(0.0379)Ser+(-0.1302)Asn+(-0.0061)Ala+(-0.0157)Arg+(0.0239)Orn;0.748,0.784,0.771,0.772,0.727,0.823,0.822,0.786,(2.2727)+(-0.1126)Asn+(0.0044)Gln+(-0.0060)Lys+(0.1406)Ile+(-0.0797)Leu;0.748,0.782,0.760,0.754,0.738,0.811,0.788,0.773,(2.3654)+(-0.0271)Asn+(0.0194)Thr+(-0.0079)Ala+(-0.2676)Met+(0.0634)Ile;0.748,0.779,0.727,0.719,0.695,0.798,0.766,0.744,(0.3121)+(-0.0923)Cit+(-0.0085)Pro+(0.1729)Ile+(-0.1018)Leu+(0.0528)Phe;0.748,0.782,0.777,0.768,0.780,0.818,0.766,0.783,(7.6641)+(-0.0030

)Asn+(-0.1021)His+(-0.0276)Cit+(0.0039)Arg+(-0.0488)Met;0.748,0.782,0.743,0.748,0.740,0.842,0.665,0.749,(1.9321)+(0.0213)Ser+(-0.0094)Ala+(-0.1204)Cit+(-0.0351)Tyr+(0.0529)Orn;0.748,0.787,0.743,0.753,0.725,0.809,0.709,0.749,(1.0561)+(0.0477)Ser+(-0.0078)Gly+(0.0132)Pro+(-0.0083)Val+(-0.2731)Met;0.748,0.786,0.701,0.680,0.636,0.823,0.800,0.735,(-0.8733)+(0.0339)Ser+(-0.0127)Ala+(0.0054)Pro+(-0.0265)Lys+(0.0619)Ile;0.748,0.784,0.773,0.759,0.779,0.812,0.765,0.779,(7.4356)+(-0.1073)His+(-0.0301)Cit+(0.0049)Arg+(0.0038)Val+(-0.0619)Met;0.748,0.787,0.771,0.748,0.751,0.856,0.816,0.792,(3.5425)+(0.0113)Thr+(-0.0129)Ala+(-0.0961)Cit+(-0.0199)Lys+(0.0712)Ile;0.748,0.782,0.722,0.721,0.688,0.812,0.733,0.738,(2.7980)+(0.0426)Ser+(-0.1864)Asn+(0.0088)Pro+(-0.0469)Val+(0.0647)Leu;0.748,0.784,0.770,0.760,0.771,0.805,0.766,0.776,(7.1790)+(-0.0020)Asn+(-0.1136)His+(-0.0055)Arg+(-0.0793)Met+(0.0108)Lys;0.748,0.785,0.735,0.743,0.732,0.791,0.680,0.737,(0.5267)+(0.0511)Ser+(-0.0073)Gly+(-0.0142)Arg+(0.0112)Pro+(-0.2795)Met;0.748,0.785,0.775,0.766,0.772,0.818,0.776,0.783,(7.4120)+(0.0012)Asn+(-0.1086)His+(-0.0006)Arg+(0.0050)Tyr+(-0.0578)Met;0.748,0.782,0.770,0.757,0.776,0.807,0.763,0.776,(7.2267)+(-0.1107)His+(-0.0247)Cit+(0.0020)Val+(-0.0830)Met+(0.0086)Lys;0.748,0.778,0.766,0.787,0.757,0.735,0.749,0.757,(1.0773)+(0.0111)Pro+(-0.0171)Val+(-0.3157)Met+(0.0014)Lys+(0.1117)Phe;0.748,0.789,0.698,0.673,0.644,0.826,0.787,0.732,(-0.3471)+(0.0372)Ser+(-0.0023)Gln+(-0.0112)Ala+(-0.0249)Lys+(0.0683)Ile;0.748,0.785,0.747,0.744,0.763,0.799,0.682,0.747,(0.9737)+(0.0470)Ser+(-0.0052)Gly+(-0.0639)Cit+(-0.2603)Met+(0.0116)Leu;0.748,0.780,0.751,0.747,0.750,0.748,0.761,0.752,(-1.8654)+(0.0022)Gly+(0.0037)Gln+(-0.3848)Met+(0.0428)Ile+(0.0715)Phe;0.748,0.782,0.778,0.783,0.764,0.843,0.748,0.785,(3.1467)+(0.0431)Ser+(-0.1179)Asn+(-0.0038)Gly+(-0.0056)Ala+(-0.0650)Cit;0.748,0.777,0.711,0.700,0.642,0.795,0.823,0.740,(1.2599)+(-0.0072)Thr+(-0.00

55)Pro+(-0.0555)Val+(0.0162)Orn+(0.1538)Ile;0.748,0.784,0.757,0.773,0.763,0.815,0.661,0.753,(1.2495)+(0.0444)Ser+(-0.0078)Gly+(0.0144)Thr+(-0.0163)Arg+(-0.2737)Met;0.748,0.777,0.752,0.728,0.784,0.794,0.723,0.757,(3.2250)+(-0.0276)Asn+(-0.0916)Cit+(-0.2245)Met+(0.0337)Orn+(0.0425)Ile;0.748,0.781,0.729,0.721,0.746,0.715,0.722,0.726,(-0.1843)+(-0.0356)Asn+(0.0231)Thr+(-0.3862)Met+(0.0378)Ile+(0.0739)Phe;0.748,0.781,0.762,0.783,0.769,0.726,0.720,0.749,(-0.9985)+(-0.0755)Asn+(0.0052)Gln+(0.0227)Thr+(-0.3498)Met+(0.0905)Phe;0.748,0.782,0.728,0.739,0.719,0.773,0.684,0.729,(-0.4941)+(0.0460)Ser+(-0.1667)Asn+(-0.0114)Lys+(-0.0131)Leu+(0.0756)Phe;0.748,0.792,0.683,0.664,0.651,0.791,0.724,0.708,(-0.6820)+(0.0268)Ser+(0.0023)Orn+(-0.0224)Lys+(0.1408)Ile+(-0.0741)Leu;0.748,0.787,0.729,0.733,0.719,0.787,0.700,0.735,(0.3181)+(0.0501)Ser+(-0.0075)Gly+(0.0108)Pro+(-0.2803)Met+(-0.0042)Lys;0.748,0.779,0.732,0.748,0.719,0.760,0.698,0.731,(-0.7231)+(0.0454)Ser+(-0.1800)Asn+(-0.0049)Thr+(-0.0184)Leu+(0.0739)Phe;0.748,0.778,0.762,0.755,0.734,0.812,0.806,0.777,(1.8873)+(0.0022)Gly+(-0.0081)Ala+(-0.2403)Met+(0.0074)Orn+(0.0650)Ile;0.748,0.787,0.772,0.760,0.771,0.813,0.775,0.780,(7.3126)+(-0.1118)His+(-0.0001)Arg+(0.0023)Tyr+(0.0028)Val+(-0.0605)Met;0.748,0.788,0.677,0.661,0.681,0.788,0.630,0.690,(0.5889)+(0.0347)Ser+(-0.0826)Cit+(-0.0448)Tyr+(-0.0238)Lys+(0.0606)Ile;0.748,0.787,0.720,0.703,0.757,0.779,0.643,0.720,(2.0120)+(0.0040)Gly+(0.0232)Thr+(-0.0878)Cit+(-0.3434)Met+(0.0609)Ile;0.747,0.785,0.762,0.767,0.739,0.822,0.750,0.770,(0.1437)+(0.0472)Ser+(-0.0065)Gly+(-0.0034)Ala+(-0.2520)Met+(0.0120)Leu;0.747,0.784,0.754,0.784,0.760,0.843,0.599,0.746,(1.2719)+(0.0327)Ser+(0.0134)Thr+(-0.0029)Ala+(-0.0161)Arg+(-0.2439)Met;0.747,0.787,0.767,0.778,0.750,0.838,0.718,0.771,(0.9972)+(0.0429)Ser+(-0.0081)Gly+(-0.0070)Val+(-0.2413)Met+(0.0252)Orn;0.747,0.782,0.785,0.789,0.759,0.844,0.784,0.794,(2.4842)+(0.0029)Gln+(-0.0418)Val+(-0.26

32)Met+(0.0307)Orn+(0.0651)Leu;0.747,0.781,0.733,0.725,0.744,0.734,0.734,0.734,(-0.6572)+(0.0034)Gly+(0.0031)Pro+(-0.3707)Met+(0.0404)Ile+(0.0727)Phe;0.747,0.778,0.771,0.761,0.773,0.812,0.764,0.777,(7.6699)+(-0.0145)Asn+(-0.1057)His+(-0.0270)Cit+(0.0023)Arg+(-0.0044)Tyr;0.747,0.776,0.782,0.773,0.793,0.844,0.741,0.788,(4.9957)+(-0.0960)Asn+(0.0085)Thr+(-0.0094)Ala+(-0.1161)Cit+(0.0547)Orn;0.747,0.777,0.703,0.689,0.634,0.784,0.828,0.734,(0.6336)+(-0.0089)Thr+(-0.0561)Val+(0.0120)Orn+(0.1448)Ile+(0.0169)Phe;0.747,0.779,0.803,0.833,0.794,0.779,0.762,0.792,(-0.5233)+(0.0060)Gln+(-0.0144)Arg+(-0.0138)Val+(-0.2985)Met+(0.1132)Phe;0.747,0.776,0.757,0.740,0.764,0.799,0.754,0.764,(7.0484)+(-0.1184)His+(-0.0237)Cit+(-0.0030)Arg+(0.0009)Val+(0.0046)Lys;0.747,0.787,0.729,0.714,0.703,0.806,0.768,0.748,(1.3687)+(-0.0885)Cit+(-0.0155)Lys+(0.1572)Ile+(-0.0903)Leu+(0.0565)Phe;0.747,0.781,0.772,0.760,0.780,0.812,0.760,0.778,(7.5639)+(-0.1067)His+(-0.0264)Cit+(0.0026)Tyr+(0.0034)Val+(-0.0587)Met;0.747,0.785,0.748,0.773,0.735,0.841,0.645,0.748,(0.3636)+(0.0322)Ser+(0.0050)Thr+(-0.0037)Ala+(-0.2507)Met+(0.0174)Orn;0.747,0.777,0.804,0.822,0.788,0.789,0.799,0.800,(-0.5453)+(0.0050)Gln+(-0.0048)Ala+(-0.2781)Met+(-0.0077)Lys+(0.0949)Phe;0.747,0.784,0.769,0.759,0.770,0.803,0.767,0.775,(7.1198)+(-0.1149)His+(-0.0052)Arg+(0.0009)Val+(-0.0821)Met+(0.0103)Lys;0.747,0.780,0.763,0.767,0.720,0.811,0.810,0.777,(2.0852)+(-0.1243)Asn+(0.0038)Gln+(0.0067)Orn+(0.1390)Ile+(-0.0830)Leu;0.747,0.780,0.691,0.700,0.663,0.760,0.677,0.700,(0.3371)+(0.0410)Ser+(-0.1491)Asn+(-0.0501)Tyr+(0.0107)Orn+(0.0393)Ile;0.747,0.777,0.763,0.749,0.769,0.801,0.761,0.770,(7.3522)+(-0.0209)Asn+(-0.1128)His+(-0.0238)Cit+(-0.0020)Arg+(0.0061)Lys;0.747,0.782,0.695,0.703,0.663,0.759,0.693,0.704,(0.2636)+(0.0427)Ser+(-0.1412)Asn+(-0.0027)Thr+(-0.0465)Tyr+(0.0432)Ile;0.747,0.781,0.737,0.736,0.747,0.777,0.691,0.738,(4.2000)+(-0.0866)Asn+(-0.1006)Cit+(-0.0531)Tyr+(0.045

3)Orn+(0.0288)Ile;0.747,0.787,0.687,0.663,0.677,0.779,0.705,0.706,(-1
.3859)+(0.0495)Ser+(-0.1550)Asn+(-0.0215)Lys+(0.0348)Ile+(0.0469)Phe;
0.747,0.784,0.750,0.742,0.766,0.741,0.744,0.748,(1.3048)+(-0.0680)Cit
+(-0.0261)Tyr+(-0.2770)Met+(0.0452)Ile+(0.0789)Phe;0.747,0.775,0.711,
0.694,0.643,0.789,0.839,0.741,(1.5428)+(-0.0027)Gly+(-0.0068)Thr+(-0.
0559)Val+(0.0154)Orn+(0.1476)Ile;0.747,0.775,0.759,0.750,0.762,0.795,
0.749,0.764,(7.2515)+(-0.1147)His+(-0.0216)Cit+(-0.0038)Arg+(-0.0109)
Tyr+(0.0068)Lys;0.747,0.785,0.751,0.765,0.718,0.839,0.720,0.760,(1.79
45)+(0.0397)Ser+(-0.1249)Asn+(-0.0088)Ala+(-0.0146)Arg+(0.0120)Pro;0.
747,0.779,0.744,0.743,0.707,0.796,0.785,0.758,(2.9001)+(-0.1065)Asn+(
0.0016)Gly+(0.0110)Orn+(0.1398)Ile+(-0.0829)Leu;0.747,0.785,0.756,0.7
52,0.755,0.742,0.778,0.757,(-1.6524)+(0.0041)Gln+(0.0025)Pro+(-0.3849
)Met+(0.0389)Ile+(0.0700)Phe;0.747,0.781,0.762,0.760,0.758,0.743,0.78
6,0.762,(-1.7034)+(0.0046)Gln+(-0.3798)Met+(-0.0062)Orn+(0.0438)Ile+(
0.0708)Phe;0.747,0.783,0.756,0.754,0.718,0.808,0.806,0.771,(3.1280)+(
-0.0993)Asn+(-0.0047)Pro+(0.0141)Orn+(0.1469)Ile+(-0.0845)Leu;0.747,0
.784,0.722,0.744,0.717,0.810,0.607,0.720,(0.8168)+(0.0346)Ser+(0.0068
)Thr+(0.0124)Pro+(-0.0085)Val+(-0.2959)Met;0.747,0.783,0.757,0.770,0.
752,0.824,0.686,0.758,(0.9617)+(0.0441)Ser+(-0.0079)Gly+(0.0116)Thr+(
-0.2668)Met+(-0.0049)Lys;0.747,0.781,0.753,0.743,0.762,0.733,0.775,0.
753,(0.4356)+(-0.0202)Asn+(0.0030)Pro+(-0.3299)Met+(0.0368)Ile+(0.068
0)Phe;0.747,0.785,0.744,0.769,0.745,0.803,0.634,0.738,(2.9694)+(0.038
9)Ser+(-0.1225)Asn+(-0.0640)Cit+(-0.0022)Arg+(-0.0252)Tyr;0.747,0.775
,0.803,0.824,0.789,0.777,0.794,0.796,(2.4002)+(-0.0521)Asn+(-0.0025)A
la+(-0.0135)Val+(-0.2010)Met+(0.1114)Phe;0.746,0.780,0.753,0.747,0.72
9,0.808,0.782,0.767,(1.8687)+(0.0181)Thr+(-0.0081)Ala+(-0.2926)Met+(-
0.0005)Orn+(0.0661)Ile;0.746,0.785,0.708,0.691,0.648,0.792,0.818,0.73
7,(-1.2620)+(0.0424)Ser+(-0.0068)Gly+(-0.0263)Thr+(0.1629)Ile+(-0.092

6)Leu;0.746,0.783,0.739,0.755,0.731,0.822,0.654,0.740,(-0.1199)+(0.0355)Ser+(0.0092)Thr+(-0.0040)Ala+(-0.2847)Met+(0.0134)Leu;0.746,0.783,0.755,0.780,0.747,0.849,0.640
,0.754,(0.5569)+(0.0331)Ser+(0.0087)Thr+(-0.0032)Ala+(0.0058)Tyr+(-0.2624)Met;0.746,0.788,0.704,0.684,0.644,0.825,0.795,0.737,(-0.9209)+(0.0333)Ser+(-0.0115)Ala+(0.0074)Orn+(-0.0272)Lys+(0.0647)Ile;0.746,0.784,0.754,0.763,0.741,0.810,0.714,0.757,(-0.0782)+(0.0454)Ser+(-0.0079)Gly+(0.0008)Gln+(-0.2717)Met+(0.0178)Orn;0.746,0.780,0.729,0.735,0.751,0.723,0.674,0.721,(0.1393)+(0.0241)Thr+(0.0062)Pro+(-0.3790)Met+(-0.0120)Lys+(0.0998)Phe;0.746,0.785,0.758,0.782,0.741,0.856,0.659,0.759,(0.8590)+(0.0313)Ser+(-0.0031)Ala+(-0.0054)Val+(-0.2214)Met+(0.0241)Orn;0.746,0.782,0.698,0.717,0.698,0.771,0.596,0.695,(-0.6238)+(0.0361)Ser+(-0.0853)Cit+(-0.0632)Tyr+(-0.0212)Lys+(0.0927)Phe;0.746,0.781,0.775,0.765,0.781,0.817,0.761,0.781,(7.6660)+(0.0005)Asn+(-0.1032)His+(-0.0249)Cit+(0.0058)Tyr+(-0.0558)Met;0.746,0.786,0.726,0.734,0.712,0.778,0.698,0.730,(0.3003)+(0.0495)Ser+(-0.0079)Gly+(0.0113)Pro+(-0.0120)Tyr+(-0.2785)Met;0.746,0.773,0.786,0.776,0.798,0.844,0.749,0.792,(5.1376)+(-0.0813)Asn+(-0.0086)Ala+(-0.1137)Cit+(0.0591)Orn+(-0.0032)Leu;0.746,0.779,0.689,0.698,0.658,0.756,0.683,0.699,(0.3764)+(0.0415)Ser+(-0.1454)Asn+(0.0020)Pro+(-0.0498)Tyr+(0.0404)Ile;0.746,0.781,0.752,0.760,0.764,0.738,0.713,0.744,(0.3757)+(0.0028)Gly+(0.0075)Pro+(-0.3212)Met+(-0.0079)Lys+(0.0933)Phe;0.746,0.785,0.732,0.713,0.763,0.775,0.688,0.735,(2.4849)+(0.0247)Thr+(-0.0812)Cit+(0.0014)Pro+(-0.3393)Met+(0.0559)Ile;0.746,0.781,0.772,0.762,0.776,0.809,0.762,0.777,(7.3074)+(-0.1088)His+(-0.0224)Cit+(-0.0017)Arg+(-0.0798)Met+(0.0097)Lys;0.746,0.780,0.760,0.766,0.711,0.810,0.809,0.774,(1.9158)+(-0.0122)Ala+(-0.0884)Cit+(-0.0493)Tyr+(0.0544)Ile+(0.0495)Phe;0.746,0.780,0.755,0.773,0.712,0.844,0.732,0.765,(2.9136)+(0.0378)Ser+(-0.1408)Asn+(-0.00

71)Ala+(0.0146)Pro+(-0.0116)Val;0.746,0.778,0.779,0.772,0.752,0.817,0.826,0.792,(2.8128)+(-0.0086)Asn+(-0.0078)Ala+(-0.0057)Arg+(-0.2110)Met+(0.0649)Ile;0.746,0.782,0.758,0.787,0.746,0.858,0.631,0.756,(1.0675)+(0.0311)Ser+(0.0100)Thr+(-0.0026)Ala+(-0.0031)Val+(-0.2471)Met;0.746,0.784,0.755,0.770,0.748,0.816,0.689,0.756,(0.7418)+(0.0438)Ser+(-0.0080)Gly+(0.0106)Thr+(-0.0051)Tyr+(-0.2764)Met;0.746,0.792,0.696,0.696,0.666,0.786,0.691,0.710,(0.6378)+(0.0433)Ser+(-0.1190)Asn+(-0.0396)Tyr+(-0.0142)Lys+(0.0517)Ile;0.746,0.785,0.720,0.728,0.722,0.777,0.656,0.721,(-0.6544)+(0.0486)Ser+(-0.1519)Asn+(-0.0154)Arg+(-0.0131)Lys+(0.0659)Phe;0.746,0.775,0.794,0.823,0.783,0.762,0.762,0.783,(-0.7829)+(0.0012)Gly+(0.0045)Gln+(-0.0142)Val+(-0.3147)Met+(0.1138)Phe;0.746,0.784,0.743,0.746,0.737,0.797,0.709,0.747,(-0.2706)+(0.0477)Ser+(-0.0076)Gly+(-0.2846)Met+(0.0160)Orn+(0.0063)Leu;0.746,0.784,0.734,0.735,0.762,0.809,0.618,0.731,(1.0779)+(0.0412)Ser+(-0.0709)Cit+(-0.2399)Met+(-0.0068)Lys+(0.0157)Leu;0.746,0.782,0.702,0.716,0.705,0.778,0.605,0.701,(-0.6341)+(0.0391)Ser+(0.0054)Thr+(0.0093)Pro+(-0.3315)Met+(0.0057)Leu;0.746,0.778,0.769,0.773,0.722,0.814,0.821,0.783,(2.0379)+(-0.1163)Asn+(0.0043)Gln+(-0.0034)Thr+(0.1427)Ile+(-0.0835)Leu;0.746,0.775,0.799,0.827,0.789,0.766,0.771,0.788,(-0.6068)+(0.0049)Gln+(-0.0136)Val+(-0.3080)Met+(-0.0018)Lys+(0.1122)Phe;0.746,0.780,0.769,0.765,0.743,0.815,0.801,0.781,(2.2495)+(0.0028)Gly+(-0.0079)Ala+(-0.0077)Arg+(-0.2260)Met+(0.0679)Ile;0.746,0.774,0.810,0.830,0.791,0.786,0.813,0.805,(-0.2897)+(-0.0608)Asn+(0.0061)Gln+(-0.0050)Ala+(-0.2459)Met+(0.0886)Phe;0.746,0.784,0.753,0.762,0.753,0.808,0.689,0.753,(0.6696)+(0.0470)Ser+(-0.0077)Gly+(-0.0156)Arg+(-0.2473)Met+(0.0225)Orn;0.746,0.781,0.788,0.781,0.793,0.806,0.782,0.791,(1.3111)+(-0.0496)Asn+(0.0076)Gln+(-0.0809)Cit+(-0.2489)Met+(0.0523)Ile;0.746,0.779,0.773,0.770,0.754,0.833,0.776,0.783,(3.5165)+(-0.0004)Gly+(-0.0418)Val+(-0.2425)Met+(

0.0351)Orn+(0.0648)Leu;0.746,0.781,0.756,0.785,0.743,0.847,0.639,0.753,(0.4470)+(0.0316)Ser+(0.0008)Gln+(0.0087)Thr+(-0.0031)Ala+(-0.2573)Met;0.746,0.781,0.764,0.770,0.773,0.822,0.686,0.763,(1.9232)+(0.0448)Ser+(-0.0057)Gly+(-0.0600)Cit+(-0.2149)Met+(-0.0026)Lys;0.746,0.780,0.763,0.769,0.773,0.821,0.687,0.763,(1.8268)+(0.0451)Ser+(-0.0057)Gly+(-0.0578)Cit+(-0.0035)Arg+(-0.2223)Met;0.746,0.776,0.768,0.773,0.779,0.737,0.755,0.761,(1.3756)+(-0.0275)Asn+(0.0070)Pro+(-0.2817)Met+(-0.0067)Lys+(0.0875)Phe;0.745,0.781,0.763,0.780,0.778,0.835,0.637,0.758,(1.0013)+(0.0339)Ser+(0.0031)Gln+(-0.0724)Cit+(-0.2264)Met+(-0.0034)Lys;0.745,0.782,0.750,0.743,0.715,0.805,0.800,0.766,(3.3122)+(-0.0916)Asn+(0.0145)Orn+(-0.0063)Lys+(0.1384)Ile+(-0.0799)Leu;0.745,0.777,0.760,0.790,0.743,0.731,0.736,0.750,(1.4229)+(0.0117)Pro+(-0.0261)Tyr+(-0.0158)Val+(-0.2790)Met+(0.1172)Phe;0.745,0.772,0.744,0.712,0.730,0.828,0.798,0.767,(1.8715)+(-0.0167)Ala+(-0.1259)Cit+(0.0063)Pro+(0.0387)Orn+(0.0455)Ile;0.745,0.780,0.700,0.711,0.666,0.762,0.695,0.709,(0.0728)+(0.0404)Ser+(-0.1522)Asn+(0.0014)Gln+(-0.0482)Tyr+(0.0416)Ile;0.745,0.785,0.749,0.770,0.752,0.815,0.638,0.744,(3.1479)+(0.0391)Ser+(-0.1153)Asn+(-0.0651)Cit+(-0.0212)Tyr+(-0.0050)Lys;0.745,0.783,0.783,0.799,0.753,0.844,0.760,0.789,(0.3494)+(0.0433)Ser+(-0.0073)Gly+(0.0018)Gln+(-0.0025)Ala+(-0.2347)Met;0.745,0.775,0.752,0.774,0.768,0.719,0.686,0.737,(0.8692)+(-0.0605)Asn+(0.0254)Thr+(-0.3158)Met+(-0.0118)Leu+(0.1023)Phe;0.745,0.773,0.790,0.820,0.776,0.754,0.768,0.780,(2.6063)+(-0.0568)Asn+(-0.0243)Tyr+(-0.0143)Val+(-0.1800)Met+(0.1175)Phe;0.745,0.779,0.746,0.737,0.756,0.843,0.680,0.754,(1.2327)+(0.0230)Ser+(-0.0111)Ala+(-0.1144)Cit+(-0.0124)Arg+(0.0490)Orn;0.745,0.781,0.766,0.771,0.774,0.824,0.692,0.765,(1.9112)+(0.0441)Ser+(-0.0057)Gly+(-0.0590)Cit+(-0.0014)Val+(-0.2210)Met;0.745,0.779,0.710,0.703,0.726,0.714,0.694,0.709,(-1.2211)+(0.0021)Gly+(0.0201)Thr+(-0.4284)Met+(0.0425)Ile+

(0.0763)Phe;0.745,0.777,0.771,0.770,0.757,0.832,0.756,0.779,(3.8003)+(-0.0094)Arg+(-0.0407)Val+(-0.2275)Met+(0.0380)Orn+(0.0624)Leu;0.745,0.778,0.752,0.755,0.709,0.809,0.795,0.767,(3.0511)+(-0.0982)Asn+(0.0020)Gly+(-0.0038)Pro+(0.1496)Ile+(-0.0835)Leu;0.745,0.782,0.743,0.738,0.759,0.741,0.724,0.741,(-0.2179)+(0.0039)Gly+(-0.0115)Arg+(-0.3433)Met+(0.0441)Ile+(0.0729)Phe;0.745,0.781,0.761,0.775,0.778,0.828,0.643,0.756,(0.6670)+(0.0347)Ser+(0.0028)Gln+(-0.0731)Cit+(0.0079)Tyr+(-0.2558)Met;0.745,0.779,0.761,0.780,0.776,0.827,0.636,0.755,(0.8712)+(0.0341)Ser+(0.0031)Gln+(-0.0693)Cit+(-0.0047)Arg+(-0.2353)Met;0.745,0.783,0.751,0.775,0.735,0.841,0.659,0.752,(0.2729)+(0.0334)Ser+(0.0001)Gln+(-0.0037)Ala+(-0.2361)Met+(0.0194)Orn;0.745,0.775,0.743,0.717,0.775,0.787,0.716,0.749,(2.7030)+(-0.0910)Cit+(0.0014)Pro+(-0.2595)Met+(0.0309)Orn+(0.0445)Ile;0.745,0.777,0.765,0.783,0.741,0.754,0.774,0.763,(1.1651)+(-0.0080)Ala+(0.0134)Pro+(-0.0258)Tyr+(-0.2535)Met+(0.0953)Phe;0.745,0.779,0.776,0.797,0.777,0.745,0.740,0.765,(-1.1548)+(0.0055)Gln+(-0.0166)Arg+(0.0066)Pro+(-0.3478)Met+(0.0882)Phe;0.745,0.780,0.763,0.781,0.776,0.831,0.640,0.757,(0.9614)+(0.0334)Ser+(0.0029)Gln+(-0.0712)Cit+(-0.0012)Val+(-0.2360)Met;0.745,0.775,0.785,0.771,0.795,0.844,0.761,0.793,(4.9625)+(-0.0836)Asn+(-0.0091)Ala+(-0.1162)Cit+(0.0025)Arg+(0.0578)Orn;0.745,0.775,0.788,0.814,0.775,0.773,0.755,0.780,(0.8384)+(0.0026)Gly+(-0.0030)Ala+(-0.0123)Val+(-0.2638)Met+(0.1147)Phe;0.745,0.783,0.756,0.752,0.741,0.811,0.759,0.766,(2.3874)+(0.0226)Thr+(-0.0078)Ala+(-0.0154)Arg+(-0.2828)Met+(0.0657)Ile;0.745,0.779,0.772,0.766,0.756,0.835,0.775,0.783,(3.6464)+(-0.0408)Val+(-0.2324)Met+(0.0366)Orn+(-0.0040)Lys+(0.0650)Leu;0.745,0.783,0.750,0.756,0.742,0.813,0.704,0.754,(0.5824)+(0.0462)Ser+(-0.0080)Gly+(-0.2393)Met+(0.0232)Orn+(-0.0073)Lys;0.745,0.781,0.742,0.749,0.763,0.802,0.638,0.738,(0.2006)+(0.0373)Ser+(0.0024)Gln+(-0.0752)Cit+(-0.2721)Met+(0.0118)Leu;0.74

5,0.786,0.745,0.753,0.711,0.832,0.731,0.757,(2.9883)+(0.0426)Ser+(-0.1648)Asn+(-0.0098)Arg+(-0.0434)Val+(0.0663)Leu;0.745,0.771,0.773,0.776,0.786,0.758,0.748,0.767,(1.4622)+(-0.0346)Asn+(-0.2498)Met+(0.0200)Orn+(-0.0089)Lys+(0.0822)Phe;0.745,0.782,0.776,0.768,0.742,0.843,0.822,0.794,(4.1369)+(-0.0108)Ala+(-0.0830)Cit+(-0.0240)Tyr+(-0.0136)Lys+(0.0709)Ile;0.745,0.780,0.771,0.776,0.776,0.828,0.707,0.772,(4.6098)+(0.0217)Thr+(-0.0090)Ala+(-0.0806)Cit+(0.0150)Pro+(-0.2284)Met;0.745,0.774,0.800,0.817,0.799,0.766,0.783,0.791,(-0.3883)+(-0.0555)Asn+(0.0066)Gln+(-0.2724)Met+(-0.0075)Lys+(0.0886)Phe;0.745,0.769,0.751,0.724,0.736,0.832,0.795,0.772,(1.4791)+(0.0011)Gln+(-0.0155)Ala+(-0.1267)Cit+(0.0391)Orn+(0.0494)Ile;0.744,0.782,0.710,0.723,0.650,0.814,0.726,0.728,(-0.5300)+(0.0307)Ser+(-0.0102)Ala+(-0.0249)Arg+(-0.0411)Tyr+(0.0586)Ile;0.744,0.782,0.752,0.780,0.744,0.849,0.627,0.750,(0.9365)+(0.0324)Ser+(0.0102)Thr+(-0.0030)Ala+(-0.2423)Met+(-0.0036)Lys;0.744,0.778,0.714,0.706,0.730,0.708,0.709,0.713,(-0.9025)+(0.0209)Thr+(0.0021)Pro+(-0.4270)Met+(0.0392)Ile+(0.0749)Phe;0.744,0.775,0.736,0.756,0.755,0.707,0.662,0.720,(0.2733)+(-0.0574)Asn+(0.0021)Gly+(0.0240)Thr+(-0.3410)Met+(0.0933)Phe;0.744,0.785,0.754,0.763,0.710,0.840,0.763,0.769,(2.2207)+(0.0392)Ser+(-0.1912)Asn+(0.0029)Gln+(-0.0450)Val+(0.0672)Leu;0.744,0.781,0.779,0.796,0.752,0.845,0.745,0.785,(1.2161)+(0.0442)Ser+(-0.0072)Gly+(-0.0020)Ala+(-0.0028)Val+(-0.2156)Met;0.744,0.781,0.699,0.691,0.638,0.796,0.778,0.726,(-1.4627)+(0.0333)Ser+(-0.0267)Thr+(-0.0038)Pro+(0.1705)Ile+(-0.0934)Leu;0.744,0.778,0.728,0.707,0.765,0.792,0.663,0.732,(2.1091)+(0.0045)Gly+(-0.0986)Cit+(-0.2675)Met+(0.0295)Orn+(0.0504)Ile;0.744,0.779,0.758,0.781,0.753,0.842,0.645,0.755,(2.9937)+(0.0359)Ser+(-0.1413)Asn+(-0.0175)Arg+(-0.0144)Val+(0.0341)Orn;0.744,0.779,0.759,0.741,0.780,0.800,0.734,0.764,(1.0405)+(0.0049)Gln+(-0.0958)Cit+(-0.2886)Met+(0.0243)Orn+(0.0488)Ile;0.744,0.783,0.749

,0.759,0.738,0.807,0.702,0.751,(0.3402)+(0.0457)Ser+(-0.0081)Gly+(-0.0087)Tyr+(-0.2522)Met+(0.0199)Orn;0.744,0.776,0.748,0.765,0.757,0.739,0.689,0.738,(-1.1249)+(0.0040)Gln+(0.0235)Thr+(-0.3793)Met+(-0.0129)Lys+(0.1010)Phe;0.744,0.784,0.753,0.773,0.738,0.843,0.662,0.754,(0.2448)+(0.0338)Ser+(-0.0038)Ala+(0.0030)Tyr+(-0.2404)Met+(0.0192)Orn;0.744,0.780,0.765,0.798,0.738,0.833,0.684,0.764,(2.4202)+(0.0383)Ser+(-0.1152)Asn+(-0.0041)Ala+(-0.0109)Arg+(-0.0183)Tyr;0.744,0.771,0.761,0.740,0.778,0.793,0.760,0.768,(3.7459)+(-0.0067)Asn+(-0.0645)Cit+(-0.2164)Met+(-0.0087)Lys+(0.0593)Ile;0.744,0.778,0.771,0.750,0.784,0.843,0.747,0.781,(2.7577)+(-0.0110)Ala+(-0.1254)Cit+(0.0610)Orn+(-0.0194)Lys+(0.0544)Phe;0.744,0.773,0.720,0.703,0.707,0.815,0.724,0.737,(1.5828)+(-0.1107)Cit+(-0.0084)Pro+(
0.0351)Orn+(0.1627)Ile+(-0.0924)Leu;0.744,0.778,0.794,0.817,0.791,0.772,0.757,0.784,(-0.6062)+(0.0067)Gln+(-0.0685)Cit+(-0.0116)Val+(-0.3007)Met+(0.1150)Phe;0.744,0.771,0.744,0.755,0.763,0.728,0.690,0.734,(1.0066)+(-0.0462)Asn+(0.0274)Thr+(-0.3232)Met+(-0.0100)Lys+(0.0974)Phe;0.744,0.779,0.749,0.763,0.771,0.826,0.615,0.744,(1.7758)+(0.0371)Ser+(-0.0660)Cit+(-0.0013)Arg+(-0.2150)Met+(-0.0019)Lys;0.744,0.777,0.780,0.791,0.783,0.770,0.753,0.774,(-0.7292)+(0.0045)Gln+(-0.3100)Met+(0.0141)Orn+(-0.0113)Lys+(0.0881)Phe;0.744,0.780,0.739,0.761,0.690,0.825,0.720,0.749,(2.2116)+(0.0377)Ser+(-0.1273)Asn+(-0.0079)Ala+(0.0134)Pro+(-0.0295)Tyr;0.744,0.771,0.748,0.719,0.735,0.826,0.795,0.769,(1.3927)+(-0.0157)Ala+(-0.1258)Cit+(0.0392)Orn+(0.0463)Ile+(0.0155)Phe;0.744,0.778,0.782,0.794,0.752,0.813,0.794,0.788,(2.6033)+(0.0041)Gln+(0.0102)Pro+(-0.0387)Val+(-0.2850)Met+(0.0598)Leu;0.744,0.770,0.750,0.722,0.740,0.830,0.788,0.770,(2.0614)+(-0.0150)Ala+(-0.1218)Cit+(-0.0040)Arg+(0.0409)Orn+(0.0487)Ile;0.744,0.781,0.734,0.737,0.760,0.803,0.623,0.731,(0.8377)+(0.0402)Ser+(-0.0699)Cit+(-0.0010)Arg+(-0.2603)Met+

(0.0125)Leu;0.744,0.779,0.780,0.782,0.738,0.823,0.830,0.793,(0.9840)+(0.0039)Gln+(-0.0078)Ala+(-0.0059)Tyr+(-0.2488)Met+(0.0652)Ile;0.744,0.782,0.777,0.791,0.752,0.841,0.745,0.782,(1.0783)+(0.0453)Ser+(-0.0071)Gly+(-0.0024)Ala+(-0.2122)Met+(-0.0028)Lys;0.744,0.779,0.750,0.764,0.770,0.828,0.615,0.744,(1.7980)+(0.0368)Ser+(-0.0665)Cit+(-0.0004)Val+(-0.2149)Met+(-0.0020)Lys;0.744,0.779,0.751,0.736,0.752,0.842,0.720,0.762,(0.9822)+(0.0277)Ser+(-0.0142)Thr+(-0.0105)Ala+(-0.1208)Cit+(0.0539)Orn;0.744,0.771,0.762,0.770,0.774,0.757,0.719,0.755,(0.5394)+(0.0017)Gly+(-0.2887)Met+(0.0178)Orn+(-0.0099)Lys+(0.0878)Phe;0.744,0.779,0.708,0.727,0.709,0.784,0.603,0.706,(-0.2886)+(0.0378)Ser+(0.0001)Gln+(0.0050)Thr+(0.0100)Pro+(-0.3173)Met;0.744,0.783,0.751,0.771,0.742,0.841,0.656,0.752,(0.6410)+(0.0335)Ser+(-0.0036)Ala+(-0.2138)Met+(0.0230)Orn+(-0.0058)Lys;0.744,0.781,0.756,0.771,0.748,0.799,0.700,0.755,(3.1289)+(0.0454)Ser+(-0.1199)Asn+(-0.0052)Gly+(-0.0582)Cit+(-0.0298)Tyr;0.744,0.779,0.763,0.753,0.800,0.770,0.705,0.757,(1.9510)+(-0.0422)Asn+(-0.0904)Cit+(-0.2354)Met+(0.0386)Orn+(0.0758)Phe;0.744,0.782,0.752,0.759,0.740,0.797,0.726,0.755,(-0.5033)+(0.0475)Ser+(-0.0073)Gly+(0.0014)Gln+(-0.2844)Met+(0.0089)Leu;0.744,0.782,0.754,0.745,0.767,0.740,0.763,0.754,(0.4377)+(-0.0098)Arg+(0.0033)Pro+(-0.3376)Met+(0.0382)Ile+(0.0690)Phe;0.744,0.781,0.752,0.761,0.776,0.829,0.625,0.748,(1.5696)+(0.0379)Ser+(-0.0679)Cit+(0.0095)Tyr+(-0.2328)Met+(-0.0025)Lys;0.744,0.779,0.748,0.746,0.708,0.803,0.793,0.763,(3.1929)+(-0.0927)Asn+(0.0019)Gly+(-0.0045)Lys+(0.1428)Ile+(-0.0801)Leu;0.744,0.785,0.740,0.743,0.703,0.834,0.746,0.756,(2.8678)+(0.0428)Ser+(-0.1646)Asn+(-0.0434)Val+(-0.0058)Lys+(0.0690)Leu;0.744,0.783,0.732,0.715,0.764,0.775,0.681,0.734,(2.6234)+(0.0261)Thr+(-0.0775)Cit+(-0.0051)Arg+(-0.3331)Met+(0.0572)Ile;0.744,0.782,0.756,0.783,0.749,0.821,0.653,0.752,(3.5292)+(0.0378)Ser+(-0.1245)Asn+(-0.0595)Cit+(-0.0172)Tyr+(-0.0058)Val

;0.744,0.780,0.745,0.760,0.755,0.759,0.675,0.737,(3.2421)+(-0.0982)As
n+(-0.0999)Cit+(-0.0660)Tyr+(0.0484)Orn+(0.0652)Phe;0.744,0.776,0.796
,0.810,0.801,0.770,0.766,0.787,(-0.5162)+(-0.0659)Asn+(0.0087)Gln+(-0
.0802)Cit+(-0.2649)Met+(0.0928)Phe;0.744,0.778,0.808,0.855,0.767,0.77
1,0.792,0.796,(1.8373)+(-0.1393)Asn+(0.0061)Gln+(-0.0539)Tyr+(-0.0171
)Val+(0.0997)Phe;0.743,0.779,0.716,0.711,0.731,0.699,0.713,0.713,(-0.
8249)+(0.0244)Thr+(-0.4312)Met+(-0.0125)Orn+(0.0456)Ile+(0.0782)Phe;0
.743,0.783,0.712,0.729,0.723,0.791,0.589,0.708,(0.0636)+(0.0397)Ser+(
-0.0174)Arg+(0.0100)Pro+(-0.2846)Met+(0.0144)Orn;0.743,0.782,0.751,0.
781,0.733,0.828,0.658,0.750,(3.0508)+(0.0339)Ser+(-0.1471)Asn+(-0.024
1)Tyr+(-0.0123)Val+(0.0331)Orn;0.743,0.783,0.763,0.767,0.773,0.819,0.
690,0.762,(1.6556)+(0.0448)Ser+(-0.0055)Gly+(-0.0610)Cit+(0.0038)Tyr+
(-0.2346)Met;0.743,0.781,0.683,0.667,0.631,0.788,0.760,0.711,(-1.0239
)+(0.0361)Ser+(-0.0019)Gln+(-0.0263)Thr+(0.1643)Ile+(-0.0917)Leu;0.74
3,0.781,0.773,0.761,0.778,0.812,0.764,0.779,(7.2519)+(-0.1088)His+(-0
.0238)Cit+(0.0022)Tyr+(-0.0839)Met+(0.0092)Lys;0.743,0.776,0.754,0.74
5,0.762,0.738,0.773,0.755,(0.4762)+(-0.0216)Asn+(-0.3195)Met+(0.0029)
Orn+(0.0390)Ile+(0.0660)Phe;0.743,0.776,0.782,0.773,0.800,0.850,0.721
,0.786,(4.7677)+(-0.0071)Ala+(-0.1115)Cit+(-0.1088)Met+(0.0614)Orn+(-
0.0085)Lys;0.743,0.786,0.740,0.762,0.741,0.798,0.635,0.734,(2.7946)+(
0.0392)Ser+(-0.1257)Asn+(-0.0665)Cit+(-0.0276)Tyr+(0.0028)Leu;0.743,0
.779,0.735,0.727,0.746,0.733,0.734,0.735,(-0.5971)+(0.0036)Gly+(-0.36
13)Met+(-0.0026)Orn+(0.0449)Ile+(0.0722)Phe;0.743,0.779,0.723,0.713,0
.712,0.770,0.741,0.734,(-0.4132)+(0.0550)Ser+(-0.1550)Asn+(-0.0059)Gl
y+(-0.0168)Lys+(0.0611)Phe;0.743,0.778,0.751,0.765,0.771,0.826,0.616,
0.745,(1.7785)+(0.0367)Ser+(-0.0644)Cit+(-0.0024)Arg+(-0.0009)Val+(-0
.2183)Met;0.743,0.781,0.744,0.778,0.760,0.834,0.558,0.733,(1.5531)+(0
.0319)Ser+(0.0144)Thr+(-0.0170)Arg+(-0.0047)Val+(-0.2516)Met;0.743,0.

770,0.751,0.722,0.740,0.831,0.796,0.772,(2.0439)+(-0.0029)Thr+(-0.015
0)Ala+(-0.1243)Cit+(0.0418)Orn+(0.0492)Ile;0.743,0.777,0.778,0.798,0.
781,0.811,0.698,0.772,(3.4139)+(-0.1190)Asn+(0.0061)Gln+(-0.1079)Cit+
(-0.0468)Tyr+(0.0491)Orn;0.743,0.779,0.771,0.768,0.794,0.840,0.681,0.
771,(4.0786)+(0.0152)Thr+(-0.0072)Ala+(-0.1107)Cit+(-0.1914)Met+(0.04
94)Orn;0.743,0.776,0.749,0.756,0.720,0.808,0.748,0.758,(3.4798)+(-0.0
739)Asn+(0.0028)Gly+(-0.0226)Arg+(0.1540)Ile+(-0.0872)Leu;0.743,0.774
,0.776,0.776,0.742,0.816,0.820,0.789,(4.3617)+(-0.0063)Ala+(0.0146)Pr
o+(-0.0354)Val+(-0.2245)Met+(0.0592)Leu;0.743,0.781,0.775,0.788,0.751
,0.838,0.747,0.781,(0.8465)+(0.0451)Ser+(-0.0070)Gly+(-0.0025)Ala+(0.
0018)Tyr+(-0.2277)Met;0.743,0.773,0.743,0.770,0.763,0.727,0.645,0.726
,(-1.4628)+(0.0049)Gln+(0.0272)Thr+(-0.0260)Arg+(-0.4043)Met+(0.0991)
Phe;0.743,0.779,0.761,0.780,0.772,0.760,0.686,0.749,(0.5451)+(0.0299)
Thr+(-0.0056)Ala+(-0.0200)Arg+(-0.3389)Met+(0.1021)Phe;0.743,0.777,0.
780,0.783,0.798,0.833,0.698,0.778,(5.5949)+(-0.0707)Asn+(-0.0942)Cit+
(-0.0117)Val+(-0.0969)Met+(0.0605)Orn;0.743,0.777,0.763,0.760,0.733,0
.810,0.803,0.776,(2.0491)+(0.0024)Gly+(-0.0079)Ala+(-0.0033)Tyr+(-0.2
330)Met+(0.0679)Ile;0.743,0.780,0.780,0.779,0.779,0.790,0.781,0.782,(
2.0531)+(-0.0091)Ala+(-0.0681)Cit+(0.0133)Pro+(-0.2433)Met+(0.0907)Ph
e;0.743,0.779,0.792,0.828,0.772,0.756,0.762,0.779,(-0.5063)+(0.0049)G
ln+(-0.0217)Tyr+(-0.0136)Val+(-0.2831)Met+(0.1182)Phe;0.743,0.771,0.7
94,0.818,0.786,0.753,0.777,0.783,(2.1845)+(-0.0592)Asn+(-0.0162)Val+(
-0.2220)Met+(0.0040)Lys+(0.1118)Phe;0.743,0.774,0.744,0.718,0.776,0.7
88,0.717,0.750,(2.6640)+(-0.0925)Cit+(0.0014)Arg+(-0.2578)Met+(0.0311
)Orn+(0.0461)Ile;0.743,0.781,0.743,0.757,0.727,0.826,0.679,0.747,(-0.
2558)+(0.0363)Ser+(-0.0043)Ala+(-0.2568)Met+(0.0156)Orn+(0.0104)Leu;0
.743,0.779,0.705,0.726,0.707,0.779,0.593,0.701,(-0.1102)+(0.0372)Ser+
(0.0055)Thr+(0.0103)Pro+(-0.0065)Tyr+(-0.3076)Met;0.743,0.778,0.755,0

.747,0.766,0.746,0.761,0.755,(0.4504)+(-0.0106)Arg+(-0.3270)Met+(0.0049)Orn+(0.0402)Ile+(0.0665)Phe;0.743,0.772,0.759,0.736,0.777,0.792,0.759,0.766,(3.6137)+(-0.0647)Cit+(0.0020)Pro+(-0.2290)Met+(-0.0087)Lys+(0.0578)Ile;0.743,0.780,0.750,0.776,0.718,0.821,0.694,0.752,(2.0524)+(0.0360)Ser+(-0.1353)Asn+(-0.0050)Ala+(-0.0272)Tyr+(0.0249)Orn;0.743,0.779,0.739,0.745,0.725,0.759,0.740,0.742,(-0.2656)+(0.0502)Ser+(-0.1837)Asn+(-0.0052)Gly+(-0.0195)Leu+(0.0705)Phe;0.743,0.776,0.740,0.732,0.713,0.828,0.757,0.757,(1.9019)+(0.0029)Gln+(-0.0873)Cit+(-0.0145)Lys+(0.1548)Ile+(-0.0811)Leu;0.743,0.772,0.785,0.793,0.777,0.781,0.785,0.784,(1.4296)+(-0.0420)Asn+(-0.0057)Ala+(-0.2235)Met+(0.0186)Orn+(0.0821)Phe;0.743,0.782,0.719,0.738,0.732,0.788,0.593,0.713,(-0.5522)+(0.0364)Ser+(0.0003)Gln+(0.0083)Thr+(-0.3135)Met+(0.0103)Leu;0.742,0.784,0.770,0.760,0.771,0.805,0.766,0.775,(7.1513)+(-0.1139)His+(-0.0056)Arg+(0.0005)Tyr+(-0.0814)Met+(0.0107)Lys;0.742,0.781,0.753,0.762,0.776,0.828,0.627,0.748,(1.5481)+(0.0372)Ser+(-0.0669)Cit+(0.0097)Tyr+(-0.0013)Val+(-0.2392)Met;0.742,0.777,0.703,0.715,0.703,0.776,0.620,0.704,(-0.6503)+(0.0405)Ser+(0.0001)Gln+(0.0097)Pro+(-0.3146)Met+(0.0054)Leu;0.742,0.772,0.783,0.798,0.777,0.778,0.761,0.779,(0.7809)+(0.0025)Gly+(-0.0049)Ala+(-0.2565)Met+(-0.0054)Lys+(0.0970)Phe;0.742,0.774,0.788,0.804,0.770,0.781,0.787,0.785,(-0.8198)+(0.0038)Gln+(-0.0056)Ala+(-0.2934)Met+(0.0118)Orn+(0.0871)Phe;0.742,0.776,0.782,0.797,0.781,0.741,0.771,0.773,(-0.7880)+(-0.0571)Asn+(0.0058)Gln+(0.0057)Pro+(-0.3118)Met+(0.0833)Phe;0.742,0.773,0.797,0.819,0.791,0.762,0.774,0.787,(2.4325)+(-0.0507)Asn+(-0.0041)Arg+(-0.0147)Val+(-0.2137)Met+(0.1116)Phe;0.742,0.782,0.732,0.734,0.698,0.825,0.730,0.747,(2.9911)+(0.0390)Ser+(-0.1899)Asn+(0.0080)Thr+(-0.0470)Val+(0.0702)Leu;0.742,0.778,0.800,0.817,0.791,0.794,0.780,0.795,(-0.5555)+(0.0068)Gln+(-0.0059)Ala+(-0.0818)Cit+(-0.2691)Met+(0.0990)Phe;0.742,0.774,0.766,0.773,0.783,0.

831,0.663,0.762,(5.3073)+(-0.1148)Asn+(0.0028)Gly+(-0.1007)Cit+(-0.0144)Val+(0.0615)Orn;0.742,0.782,0.751,0.761,0.776,0.824,0.623,0.746,(1.4671)+(0.0379)Ser+(-0.0664)Cit+(-0.0024)Arg+(0.0088)Tyr+(-0.2397)Met;0.742,0.778,0.767,0.774,0.747,0.833,0.744,0.775,(2.9865)+(0.0439)Ser+(-0.1573)Asn+(-0.0069)Gly+(-0.0150)Val+(0.0303)Orn;0.742,0.784,0.722,0.741,0.746,0.797,0.566,0.712,(0.1971)+(0.0364)Ser+(0.0129)Thr+(-0.0162)Arg+(-0.2988)Met+(0.0098)Leu;0.742,0.778,0.745,0.734,0.754,0.729,0.768,0.746,(-0.0010)+(0.0031)Pro+(-0.3537)Met+(0.0002)Orn+(0.0386)Ile+(0.0683)Phe;0.742,0.781,0.776,0.765,0.782,0.819,0.766,0.783,(7.5598)+(-0.1034)His+(-0.0278)Cit+(0.0039)Arg+(0.0059)Tyr+(-0.0606)Met;0.742,0.774,0.732,0.743,0.752,0.698,0.688,0.720,(0.3612)+(-0.0502)Asn+(0.0234)Thr+(0.0052)Pro+(-0.3580)Met+(0.0900)Phe;0.742,0.777,0.719,0.741,0.722,0.790,0.605,0.715,(-0.0648)+(0.0396)Ser+(0.0012)Gln+(-0.0160)Arg+(0.0108)Pro+(-0.2838)Met;0.742,0.780,0.726,0.739,0.720,0.763,0.678,0.725,(-0.6506)+(0.0425)Ser+(-0.1920)Asn+(0.0130)Orn+(-0.0212)Leu+(0.0706)Phe;0.742,0.781,0.756,0.768,0.730,0.844,0.715,0.764,(1.8012)+(0.0376)Ser+(-0.1285)Asn+(-0.0057)Ala+(0.0252)Orn+(-0.0092)Lys;0.742,0.778,0.772,0.770,0.762,0.802,0.779,0.778,(1.0321)+(0.0055)Gln+(-0.0105)Arg+(-0.2723)Met+(-0.0106)Lys+(0.0583)Ile;0.742,0.780,0.710,0.726,0.718,0.781,0.602,0.707,(-0.0446)+(0.0418)Ser+(-0.0146)Arg+(0.0104)Pro+(-0.2903)Met+(0.0045)Leu;0.74
2,0.779,0.777,0.795,0.758,0.833,0.731,0.779,(1.3037)+(0.0461)Ser+(-0.0070)Gly+(-0.0023)Ala+(-0.0113)Arg+(-0.2072)Met;0.742,0.784,0.727,0.751,0.746,0.811,0.565,0.719,(0.5638)+(0.0340)Ser+(0.0092)Thr+(-0.0185)Arg+(-0.2695)Met+(0.0171)Orn;0.742,0.780,0.772,0.767,0.756,0.833,0.776,0.783,(3.4146)+(0.0042)Tyr+(-0.0423)Val+(-0.2504)Met+(0.0345)Orn+(0.0658)Leu;0.742,0.773,0.775,0.774,0.793,0.834,0.695,0.774,(5.7565)+(-0.0985)Asn+(-0.0990)Cit+(-0.0133)Val+(0.0639)Orn+(-0.0053)Lys;0.742,0

.783,0.735,0.736,0.762,0.803,0.626,0.732,(0.6884)+(0.0406)Ser+(-0.071
3)Cit+(0.0062)Tyr+(-0.2732)Met+(0.0123)Leu;0.742,0.773,0.765,0.744,0.
775,0.852,0.739,0.778,(4.2798)+(-0.0124)Ala+(-0.1241)Cit+(0.0102)Pro+
(0.0608)Orn+(-0.0155)Lys;0.741,0.782,0.764,0.791,0.757,0.843,0.653,0.
761,(0.8572)+(0.0370)Ser+(-0.0030)Ala+(-0.0116)Arg+(0.0088)Tyr+(-0.22
03)Met;0.741,0.777,0.758,0.731,0.774,0.795,0.768,0.767,(3.4642)+(-0.0
737)Cit+(0.0105)Arg+(-0.2296)Met+(-0.0114)Lys+(0.0623)Ile;0.741,0.776
,0.764,0.771,0.777,0.736,0.740,0.756,(1.0669)+(-0.0066)Arg+(0.0074)Pr
o+(-0.3026)Met+(-0.0063)Lys+(0.0891)Phe;0.741,0.785,0.742,0.747,0.786
,0.747,0.632,0.728,(1.2140)+(0.0334)Thr+(-0.0799)Cit+(-0.3558)Met+(-0
.0116)Lys+(0.1084)Phe;0.741,0.778,0.709,0.725,0.713,0.787,0.599,0.706
,(0.0891)+(0.0377)Ser+(0.0064)Thr+(0.0101)Pro+(-0.2995)Met+(-0.0050)L
ys;0.741,0.780,0.689,0.676,0.631,0.788,0.774,0.717,(-1.6447)+(0.0337)
Ser+(-0.0293)Thr+(0.0070)Orn+(0.1633)Ile+(-0.0935)Leu;0.741,0.771,0.7
76,0.802,0.774,0.748,0.734,0.765,(0.6691)+(0.0025)Gly+(-0.0140)Val+(-
0.2867)Met+(0.0006)Lys+(0.1152)Phe;0.741,0.779,0.748,0.765,0.729,0.82
3,0.689,0.751,(-0.3430)+(0.0373)Ser+(0.0007)Gln+(-0.0039)Ala+(-0.2571
)Met+(0.0131)Leu;0.741,0.781,0.746,0.762,0.775,0.733,0.655,0.731,(-1.
3329)+(0.0052)Gln+(0.0269)Thr+(-0.0892)Cit+(-0.4106)Met+(0.1046)Phe;0
.741,0.776,0.773,0.808,0.729,0.838,0.725,0.775,(1.5876)+(0.0348)Ser+(
-0.1394)Asn+(0.0029)Gln+(-0.0044)Ala+(-0.0219)Tyr;0.741,0.773,0.713,0
.728,0.732,0.693,0.647,0.700,(-0.8249)+(0.0016)Gly+(0.0200)Thr+(0.006
1)Pro+(-0.4111)Met+(0.0944)Phe;0.741,0.779,0.761,0.754,0.771,0.746,0.
771,0.760,(0.7399)+(-0.0147)Asn+(-0.0085)Arg+(-0.3127)Met+(0.0405)Ile
+(0.0676)Phe;0.741,0.773,0.727,0.709,0.722,0.843,0.704,0.744,(0.7113)
+(0.0223)Ser+(-0.0148)Ala+(-0.1257)Cit+(0.0107)Pro+(0.0428)Orn;0.741,
0.770,0.749,0.762,0.762,0.720,0.710,0.738,(0.4955)+(-0.0402)Asn+(0.00
35)Gly+(0.0068)Pro+(-0.3029)Met+(0.0877)Phe;0.741,0.769,0.786,0.808,0

.785,0.750,0.758,0.775,(-0.8664)+(-0.0648)Asn+(0.0020)Gly+(0.0059)Gln+(-0.2897)Met+(0.0868)Phe;0.741,0.770,0.790,0.813,0.772,0.773,0.782,0.785,(-1.0209)+(0.0014)Gly+(0.0042)Gln+(-0.0052)Ala+(-0.2986)Met+(0.0931)Phe;0.741,0.777,0.741,0.724,0.763,0.794,0.700,0.745,(2.9416)+(0.0052)Gly+(-0.0749)Cit+(-0.2333)Met+(-0.0094)Lys+(0.0647)Ile;0.741,0.774,0.726,0.716,0.691,0.788,0.778,0.743,(0.6632)+(-0.0099)Thr+(-0.0840)Cit+(0.1638)Ile+(-0.1008)Leu+(0.0502)Phe;0.741,0.784,0.720,0.741,0.714,0.817,0.611,0.721,(0.6387)+(0.0345)Ser+(0.0119)Pro+(-0.0100)Val+(-0.2801)Met+(0.0177)Orn;0.741,0.777,0.725,0.717,0.681,0.775,0.802,0.744,(0.5407)+(-0.0073)Pro+(-0.0166)Lys+(0.1565)Ile+(-0.0896)Leu+(0.0434)Phe;0.741,0.773,0.772,0.783,0.763,0.775,0.759,0.770,(0.2485)+(0.0020)Gly+(-0.0057)Ala+(-0.2736)Met+(0.0155)Orn+(0.0883)Phe;0.741,0.779,0.750,0.772,0.741,0.818,0.665,0.749,(0.2718)+(0.0389)Ser+(-0.0037)Ala+(-0.0107)Arg+(-0.2353)Met+(0.0128)Leu;0.741,0.784,0.726,0.715,0.749,0.773,0.672,0.727,(2.7935)+(0.0263)Thr+(-0.0800)Cit+(-0.0203)Tyr+(-0.3087)Met+(0.0594)Ile;0.741,0.783,0.743,0.770,0.740,0.840,0.605,0.739,(0.7461)+(0.0304)Ser+(0.0056)Thr+(-0.0069)Val+(-0.2595)Met+(0.0204)Orn;0.741,0.778,0.728,0.726,0.744,0.805,0.643,0.730,(2.3967)+(0.0411)Ser+(-0.1258)Asn+(-0.0708)Cit+(0.0058)Pro+(-0.0100)Lys;0.741,0.777,0.751,0.769,0.748,0.720,0.734,0.743,(1.1866)+(0.0086)Pro+(-0.0316)Tyr+(-0.2704)Met+(-0.0071)Lys+(0.0976)Phe;0.741,0.777,0.755,0.753,0.712,0.833,0.794,0.773,(1.8010)+(0.0460)Ser+(-0.1386)Asn+(-0.0058)Gly+(-0.0092)Ala+(0.0113)Pro;0.741,0.776,0.753,0.754,0.710,0.830,0.783,0.769,(2.5287)+(0.0033)Gly+(-0.0122)Ala+(-0.0928)Cit+(-0.0319)Tyr+(0.0652)Ile;0.741,0.774,0.733,0.752,0.720,0.757,0.695,0.731,(-0.9990)+(0.0422)Ser+(-0.1956)Asn+(0.0017)Gln+(-0.0195)Leu+(0.0719)Phe;0.741,0.772,0.799,0.821,0.801,0.757,0.768,0.787,(-0.6165)+(-0.0550)Asn+(0.0072)Gln+(-0.0141)Arg+(-0.2790)Met+(0.0865)Phe;0.741,0.782,0.729,0.752,0.728,0.812,0.6

08,0.725,(1.2436)+(0.0387)Ser+(-0.0152)Arg+(0.0134)Pro+(-0.0081)Val+(-0.2533)Met;0.741,0.778,0.747,0.745,0.719,0.803,0.769,0.759,(2.0298)+(0.0189)Thr+(-0.0078)Ala+(-0.0123)Tyr+(-0.2773)Met+(0.0665)Ile;0.741,0.775,0.747,0.749,0.705,0.798,0.790,0.761,(2.9875)+(-0.0974)Asn+(0.0021)Gly+(-0.0020)Thr+(0.1442)Ile+(-0.0829)Leu;0.741,0.774,0.727,0.746,0.735,0.698,0.684,0.716,(-1.7464)+(0.0032)Gln+(0.0189)Thr+(0.0057)Pro+(-0.4233)Met+(0.0928)Phe;0.741,0.777,0.712,0.708,0.656,0.819,0.764,0.737,(-2.3133)+(0.0309)Ser+(-0.0134)Ala+(-0.0309)Arg+(0.0472)Ile+(0.0247)Phe;0.741,0.775,0.703,0.694,0.645,0.815,0.767,0.730,(-1.5171)+(0.0301)Ser+(-0.0141)Ala+(-0.0297)Arg+(0.0065)Pro+(0.0471)Ile;0.741,0.779,0.780,0.773,0.769,0.805,0.800,0.787,(1.2089)+(-0.0334)Asn+(0.0057)Gln+(-0.2534)Met+(-0.0111)Lys+(0.0556)Ile;0.741,0.775,0.782,0.778,0.796,0.851,0.715,0.785,(4.5335)+(-0.0061)Ala+(-0.1052)Cit+(-0.0060)Val+(-0.1294)Met+(0.0593)Orn;0.741,0.772,0.748,0.776,0.755,0.713,0.685,0.732,(-1.5371)+(0.0034)Gln+(0.0203)Thr+(-0.3915)Met+(-0.0098)Leu+(0.1029)Phe;0.741,0.774,0.732,0.716,0.741,0.838,0.681,0.744,(1.4855)+(0.0235)Ser+(-0.0019)Gln+(-0.0115)Ala+(-0.1232)Cit+(0.0503)Orn;0.741,0.780,0.715,0.733,0.722,0.791,0.598,0.711,(0.3365)+(0.0410)Ser+(-0.0144)Arg+(0.0111)Pro+(-0.2734)Met+(-0.0016)Lys;0.741,0.770,0.734,0.743,0.755,0.726,0.674,0.725,(0.2211)+(0.0239)Thr+(-0.3554)Met+(0.0083)Orn+(-0.0126)Lys+(0.0976)Phe;0.741,0.775,0.777,0.807,0.751,0.850,0.695,0.776,(2.9582)+(0.0377)Ser+(-0.1224)Asn+(-0.0032)Ala+(-0.0110)Arg+(-0.0077)Val;0.741,0.773,0.735,0.742,0.698,0.785,0.755,0.745,(0.9066)+(-0.0347)Arg+(-0.0063)Pro+(0.1719)Ile+(-0.1056)Leu+(0.0497)Phe;0.741,0.782,0.718,0.737,0.731,0.787,0.590,0.711,(-0.4591)+(0.0367)Ser+(0.0085)Thr+(-0.0008)Tyr+(-0.3116)Met+(0.0105)Leu;0.741,0.771,0.780,0.807,0.782,0.758,0.721,0.767,(1.0143)+(0.0028)Gly+(-0.0087)Arg+(-0.0136)Val+(-0.2721)Met+(0.1157)Phe;0.741,0.779,0.725,0.772,0.673,0.796,0.660,0.725,(-1

.3043)+(0.0311)Ser+(-0.0076)Ala+(-0.0268)Arg+(-0.0570)Tyr+(0.0781)Phe
;0.741,0.775,0.741,0.732,0.714,0.827,0.759,0.758,(3.1068)+(-0.0808)Ci
t+(-0.0057)Pro+(-0.0111)Lys+(0.1640)Ile+(-0.0827)Leu;0.741,0.780,0.76
2,0.792,0.754,0.842,0.643,0.758,(1.0498)+(0.0363)Ser+(-0.0027)Ala+(-0
.0116)Arg+(-0.2052)Met+(0.0001)Lys;0.740,0.774,0.744,0.758,0.763,0.79
1,0.632,0.736,(4.6914)+(-0.0958)Asn+(0.0028)Gly+(-0.1059)Cit+(-0.0418
)Tyr+(0.0543)Orn;0.740,0.772,0.787,0.800,0.796,0.772,0.741,0.777,(-0.
6734)+(0.0074)Gln+(-0.0780)Cit+(-0.2964)Met+(-0.0089)Lys+(0.1001)Phe;
0.740,0.773,0.782,0.800,0.782,0.758,0.752,0.773,(-0.9594)+(0.0010)Gly
+(0.0049)Gln+(-0.3166)Met+(-0.0091)Lys+(0.0934)Phe;0.740,0.782,0.747,
0.760,0.733,0.824,0.689,0.751,(-0.2935)+(0.0387)Ser+(-0.0041)Ala+(0.0
070)Tyr+(-0.2652)Met+(0.0132)Leu;0.740,0.776,0.751,0.750,0.728,0.806,
0.756,0.760,(3.6660)+(-0.0736)Asn+(-0.0252)Arg+(0.0202)Orn+(0.1494)Il
e+(-0.0891)Leu;0.740,0.767,0.731,0.728,0.697,0.810,0.752,0.747,(1.241
1)+(0.0017)Gln+(-0.0891)Cit+(-0.0070)Pro+(0.1685)Ile+(-0.0915)Leu;0.7
40,0.780,0.740,0.772,0.756,0.815,0.567,0.727,(0.4519)+(0.0324)Ser+(0.
0017)Gln+(0.0125)Thr+(-0.0180)Arg+(-0.2749)Met;0.740,0.771,0.793,0.81
6,0.778,0.769,0.778,0.785,(1.2588)+(-0.0029)Ala+(-0.0124)Val+(-0.2557
)Met+(0.0006)Lys+(0.1115)Phe;0.740,0.768,0.784,0.801,0.775,0.775,0.76
1,0.778,(1.1271)+(-0.0430)Asn+(0.0033)Gly+(-0.0051)Ala+(-0.2298)Met+(
0.0933)Phe;0.740,0.772,0.731,0.744,0.704,0.825,0.685,0.739,(1.8412)+(
0.0265)Ser+(-0.0111)Ala+(-0.0864)Cit+(0.0153)Pro+(-0.0359)Tyr;0.740,0
.780,0.746,0.758,0.732,0.825,0.684,0.750,(0.1170)+(0.0391)Ser+(-0.003
8)Ala+(-0.2344)Met+(-0.0063)Lys+(0.0164)Leu;0.740,0.781,0.735,0.764,0
.756,0.813,0.556,0.722,(0.8648)+(0.0342)Ser+(0.0129)Thr+(-0.0167)Arg+
(0.0012)Tyr+(-0.2711)Met;0.740,0.779,0.737,0.743,0.696,0.834,0.737,0.
753,(1.3133)+(0.0378)Ser+(-0.1482)Asn+(-0.0094)Ala+(0.0103)Pro+(0.014
9)Orn;0.740,0.777,0.781,0.810,0.751,0.846,0.723,0.782,(1.2577)+(0.036

3)Ser+(-0.1363)Asn+(0.0032)Gln+(-0.0053)Ala+(-0.0143)Arg;0.740,0.769,0.732,0.744,0.754,0.723,0.662,0.721,(0.0822)+(0.0010)Gly+(0.0252)Thr+(-0.3634)Met+(-0.0115)Lys+(0.1015)Phe;0.740,0.774,0.738,0.731,0.733,0.787,0.734,0.746,(0.9590)+(0.0037)Gln+(0.0178)Thr+(-0.3249)Met+(-0.0148)Lys+(0.0608)Ile;0.740,0.775,0.774,0.799,0.759,0.832,0.695,0.771,(2.1804)+(0.0345)Ser+(-0.1584)Asn+(0.0050)Gln+(-0.0680)Cit+(-0.0083)Val;0.740,0.774,0.757,0.753,0.799,0.805,0.642,0.750,(4.4004)+(-0.0621)Asn+(0.0189)Thr+(-0.0992)Cit+(-0.2049)Met+(0.0415)Orn;0.740,0.776,0.759,0.759,0.716,0.810,0.814,0.774,(3.2794)+(-0.0917)Asn+(-0.0003)Thr+(-0.0038)Pro+(0.1491)Ile+(-0.0838)Leu;0.740,0.783,0.703,0.674,0.687,0.788,0.755,0.726,(0.1997)+(0.0527)Ser+(-0.1280)Asn+(-0.0058)Gly+(-0.0194)Lys+(0.0426)Ile;0.740,0.779,0.765,0.792,0.746,0.847,0.675,0.765,(0.1180)+(0.0345)Ser+(0.0012)Gln+(-0.0032)Ala+(0.0082)Tyr+(-0.2440)Met;0.740,0.779,0.754,0.751,0.712,0.806,0.810,0.770,(3.4181)+(-0.0878)Asn+(0.0004)Thr+(-0.0047)Lys+(0.1421)Ile+(-0.0802)Leu;0.740,0.768,0.736,0.759,0.745,0.706,0.678,0.722,(-1.7199)+(0.0004)Gly+(0.0033)Gln+(0.0201)Thr+(-0.4074)Met+(0.0941)Phe;0.740,0.779,0.735,0.764,0.755,0.818,0.554,0.723,(1.0116)+(0.0340)Ser+(0.0134)Thr+(-0.0160)Arg+(-0.2623)Met+(-0.0020)Lys;0.740,0.775,0.723,0.739,0.752,0.710,0.630,0.708,(0.0617)+(0.0274)Thr+(-0.0210)Arg+(0.0061)Pro+(-0.3972)Met+(0.0961)Phe;0.740,0.774,0.722,0.709,0.705,0.820,0.721,0.739,(2.4834)+(0.0030)Gly+(-0.0866)Cit+(-0.0128)Lys+(0.1562)Ile+(-0.0809)Leu;0.740,0.777,0.790,0.829,0.763,0.768,0.756,0.779,(1.0065)+(-0.1309)Asn+(0.0084)Gln+(-0.0830)Cit+(-0.0645)Tyr+(0.0803)Phe;0.740,0.774,0.772,0.767,0.792,0.842,0.693,0.774,(3.9125)+(0.0025)Gly+(-0.0074)Ala+(-0.1129)Cit+(-0.1409)Met+(0.0555)Orn;0.740,0.773,0.802,0.826,0.787,0.784,0.784,0.795,(-0.7477)+(0.0056)Gln+(-0.0050)Ala+(-0.0149)Arg+(-0.2817)Met+(0.0931)Phe;0.740,0.770,0.739,0.719,0.707,0.824,0.797,0.762,(1.4672)+(0.0042)Gly+(-0.0162)

Ala+(-0.1054)Cit+(0.0079)Pro+(0.0572)Ile;0.740,0.771,0.790,0.804,0.795,0.766,0.758,0.781,(2.8608)+
(-0.0486)Asn+(-0.0512)Cit+(-0.0129)Val+(-0.2020)Met+(0.1125)Phe;0.740,0.773,0.780,0.789,0.777,0.779,0.762,0.777,(1.0542)+(-0.0057)Ala+(-0.0126)Arg+(-0.2476)Met+(0.0209)Orn+(0.0847)Phe;0.740,0.782,0.738,0.749,0.697,0.822,0.734,0.751,(2.9985)+(0.0412)Ser+(-0.1679)Asn+(-0.0132)Tyr+(-0.0424)Val+(0.0667)Leu;0.740,0.775,0.774,0.770,0.743,0.811,0.825,0.787,(2.8022)+(-0.0145)Asn+(-0.0077)Ala+(-0.0075)Tyr+(-0.2026)Met+(0.0648)Ile;0.740,0.774,0.759,0.761,0.781,0.809,0.670,0.755,(5.4629)+(-0.0720)Asn+(-0.1041)Cit+(-0.0376)Tyr+(0.0609)Orn+(-0.0103)Lys;0.740,0.769,0.738,0.735,0.702,0.809,0.770,0.754,(2.3880)+(-0.0065)Thr+(-0.0794)Cit+(-0.0055)Pro+(0.1689)Ile+(-0.0911)Leu;0.740,0.781,0.749,0.775,0.754,0.843,0.601,0.743,(1.2697)+(0.0329)Ser+(-0.0172)Arg+(-0.0073)Val+(-0.2162)Met+(0.0279)Orn;0.740,0.777,0.767,0.757,0.775,0.792,0.758,0.771,(0.9321)+(0.0059)Gln+(-0.0799)Cit+(0.0017)Pro+(-0.2963)Met+(0.0542)Ile;0.740,0.782,0.716,0.734,0.724,0.794,0.599,0.713,(-0.5792)+(0.0362)Ser+(0.0060)Thr+(-0.3078)Met+(0.0102)Orn+(0.0083)Leu;0.740,0.778,0.766,0.790,0.750,0.856,0.671,0.767,(0.7414)+(0.0351)Ser+(-0.0027)Ala+(0.0102)Tyr+(-0.0028)Val+(-0.2320)Met;0.740,0.781,0.746,0.752,0.736,0.793,0.717,0.749,(-0.0428)+(0.0488)Ser+(-0.0072)Gly+(-0.0035)Tyr+(-0.2715)Met+(0.0096)Leu;0.740,0.778,0.714,0.734,0.719,0.788,0.597,0.709,(0.3602)+(0.0406)Ser+(-0.0150)Arg+(0.0113)Pro+(-0.0049)Tyr+(-0.2708)Met;0.740,0.774,0.743,0.758,0.761,0.787,0.631,0.734,(5.0496)+(-0.1060)Asn+(0.0113)Thr+(-0.1038)Cit+(-0.0501)Tyr+(0.0509)Orn;0.740,0.779,0.705,0.722,0.706,0.786,0.598,0.703,(-0.4412)+(0.0376)Ser+(0.0032)Thr+(0.0094)Pro+(-0.3164)Met+(0.0086)Orn;0.740,0.774,0.740,0.700,0.779,0.810,0.713,0.751,(3.9813)+(-0.0756)Asn+(-0.1069)Cit+(0.0483)Orn+(-0.0200)Lys+(0.0315)Ile;0.740,0.772,0.772,0.800,0.739,0.854,0.710,0.776,(

2.8662)+(0.0354)Ser+(-0.1395)Asn+(0.0036)Thr+(-0.0036)Ala+(-0.0085)Val;0.740,0.771,0.815,0.826,0.789,0.832,0.828,0.819,(1.4064)+(-0.1245)Asn+(0.0073)Gln+(-0.0089)Ala+(-0.0880)Cit+(0.0624)Phe;0.740,0.774,0.763,0.754,0.752,0.800,0.780,0.771,(1.0014)+(0.0044)Gln+(-0.2772)Met+(0.0078)Orn+(-0.0135)Lys+(0.0572)Ile;0.740,0.777,0.759,0.771,0.727,0.838,0.737,0.768,(1.3365)+(0.0387)Ser+(-0.1398)Asn+(-0.0048)Thr+(-0.0062)Ala+(0.0223)Orn;0.739,0.780,0.715,0.727,0.765,0.723,0.572,0.697,(-0.1926)+(0.0049)Gly+(0.0287)Thr+(-0.0897)Cit+(-0.3995)Met+(0.1107)Phe;0.739,0.775,0.770,0.785,0.779,0.790,0.701,0.764,(0.9944)+(0.0058)Gly+(-0.0058)Ala+(-0.0786)Cit+(-0.2415)Met+(0.1056)Phe;0.739,0.773,0.753,0.772,0.754,0.722,0.723,0.743,(-1.5082)+(0.0016)Gly+(0.0039)Gln+(0.0066)Pro+(-0.3686)Met+(0.0885)Phe;0.739,0.772,0.764,0.788,0.761,0.723,0.735,0.752,(-1.1815)+(0.0043)Gln+(0.0080)Pro+(-0.3481)Met+(-0.0130)Leu+(0.0979)Phe;0.739,0.778,0.771,0.806,0.756,0.845,0.657,0.766,(0.5114)+(0.0340)Ser+(0.0021)Gln+(-0.0028)Ala+(-0.0134)Arg+(-0.2139)Met;0.739,0.782,0.750,0.783,0.746,0.839,0.602,0.743,(0.6227)+(0.0307)Ser+(0.0010)Gln+(0.0093)Thr+(-0.0046)Val+(-0.2688)Met;0.739,0.777,0.760,0.759,0.717,0.811,0.814,0.775,(3.4637)+(-0.0839)Asn+(-0.0037)Pro+(-0.0045)Lys+(0.1487)Ile+(-0.0813)Leu;0.739,0.776,0.769,0.800,0.747,0.856,0.668,0.768,(0.5514)+(0.0327)Ser+(0.0014)Gln+(-0.0026)Ala+(-0.0026)Val+(-0.2229)Met;0.739,0.776,0.728,0.748,0.743,0.699,0.663,0.713,(-0.3806)+(0.0206)Thr+(0.0073)Pro+(-0.3901)Met+(-0.0128)Leu+(0.1042)Phe;0.739,0.769,0.730,0.716,0.738,0.769,0.724,0.737,(2.5159)+(-0.0209)Asn+(0.0213)Thr+(-0.2925)Met+(-0.0123)Lys+(0.0580)Ile;0.739,0.767,0.720,0.714,0.694,0.808,0.726,0.735,(1.6124)+(0.0021)Gly+(-0.0887)Cit+(-0.0065)Pro+(0.1683)Ile+(-0.0905)Leu;0.739,0.778,0.762,0.785,0.748,0.849,0.670,0.763,(0.5981)+(0.0361)Ser+(-0.0031)Ala+(0.0092)Tyr+(-0.2291)Met+(-0.0023)Lys;0.739,0.778,0.711,0.714,0.629,0.806,0.803,0.738,(-0.5035)+(0.03

62)Ser+(-0.0082)Gly+(-0.0104)Ala+(-0.0540)Tyr+(0.0542)Ile;0.739,0.771,0.743,0.725,0.746,0.834,0.718,0.756,(1.0303)+(0.0251)Ser+(-0.0032)Gly+(-0.0116)Ala+(-0.1201)Cit+(0.0471)Orn;0.739,0.773,0.740,0.750,0.753,0.817,0.633,0.738,(2.7444)+(0.0391)Ser+(-0.1259)Asn+(0.0031)Thr+(-0.0691)Cit+(-0.0087)Lys;0.739,0.773,0.739,0.753,0.758,0.709,0.681,0.725,(0.5271)+(-0.0544)Asn+(0.0241)Thr+(-0.3376)Met+(0.0033)Orn+(0.0894)Phe;0.739,0.779,0.702,0.713,0.704,0.779,0.614,0.702,(-0.7076)+(0.0395)Ser+(0.0091)Pro+(-0.3160)Met+(0.0085)Orn+(0.0041)Leu;0.739,0.776,0.772,0.805,0.736,0.848,0.704,0.773,(2.9465)+(0.0364)Ser+(-0.1279)Asn+(-0.0030)Ala+(-0.0128)Tyr+(-0.0069)Val;0.739,0.775,0.744,0.752,0.698,0.834,0.752,0.759,(1.4422)+(0.0403)Ser+(-0.1334)Asn+(-0.0049)Thr+(-0.0090)Ala+(0.0120)Pro;0.739,0.771,0.770,0.775,0.718,0.833,0.821,0.787,(1.8415)+(0.0034)Gln+(-0.0123)Ala+(-0.0934)Cit+(-0.0381)Tyr+(0.0626)Ile;0.739,0.778,0.724,0.747,0.714,0.807,0.621,0.722,(0.5741)+(0.0362)Ser+(0.0006)Gln+(0.0127)Pro+(-0.0081)Val+(-0.2789)Met;0.739,0.780,0.746,0.749,0.739,0.795,0.718,0.750,(0.1607)+(0.0498)Ser+(-0.0071)Gly+(-0.2561)Met+(-0.0067)Lys+(0.0126)Leu;0.739,0.779,0.751,0.758,0.748,0.797,0.705,0.752,(0.3592)+(0.0494)Ser+(-0.0070)Gly+(-0.0110)Arg+(-0.2581)Met+(0.0088)Leu;0.739,0.771,0.761,0.775,0.777,0.803,0.663,0.754,(5.3775)+(-0.0868)Asn+(-0.1017)Cit+(-0.0398)Tyr+(0.0583)Orn+(-0.0087)Leu;0.739,0.781,0.746,0.775,0.749,0.842,0.597,0.741,(0.7866)+(0.0322)Ser+(0.0094)Thr+(0.0053)Tyr+(-0.0047)Val+(-0.2730)Met;0.739,0.777,0.702,0.715,0.701,0.774,0.616,0.702,(-0.4973)+(0.0402)Ser+(0.0100)Pro+(-0.0057)Tyr+(-0.3049)Met+(0.0056)Leu;0.739,0.776,0.774,0.770,0.746,0.811,0.818,0.786,(2.7572)+(-0.0077)Ala+(-0.0062)Arg+(-0.0059)Tyr+(-0.2103)Met+(0.0658)Ile;0.739,0.770,0.793,0.804,0.786,0.777,0.793,0.790,(1.8175)+(-0.0326)Asn+(-0.0049)Ala+(-0.2165)Met+(-0.0041)Lys+(0.0916)Phe;0.739,0.778,0.749,0.760,0.733,0.730,0.768,0.748,(-1.3750)+(0.0042)Gln+(-0.

0273)Tyr+(-0.3377)Met+(0.0420)Ile+(0.0768)Phe;0.739,0.778,0.704,0.719,0.705,0.785,0.604,0.703,(-0.4004)+(0.0387)Ser+(-0.0003)Gln+(0.0096)Pro+(-0.3061)Met+(0.0103)Orn;0.739,0.775,0.756,0.761,0.728,0.808,0.764,0.765,(3.8304)+(-0.0758)Asn+(0.0052)Thr+(-0.0238)Arg+(0.1507)Ile+(-0.0870)Leu;0.739,0.775,0.726,0.760,0.722,0.787,0.603,0.718,(1.9277)+(0.0381)Ser+(-0.1294)Asn+(-0.0164)Arg+(-0.0363)Tyr+(0.0255)Orn;0.739,0.773,0.763,0.756,0.750,0.799,0.780,0.771,(0.9112)+(0.0007)Gly+(0.0046)Gln+(-0.2807)Met+(-0.0125)Lys+(0.0598)Ile;0.739,0.777,0.754,0.747,0.767,0.793,0.719,0.757,(0.7175)+(0.0034)Gly+(0.0052)Gln+(-0.0846)Cit+(-0.2964)Met+(0.0587)Ile;0.739,0.776,0.744,0.769,0.737,0.739,0.695,0.735,(0.1226)+(0.0264)Thr+(-0.0050)Ala+(-0.0301)Tyr+(-0.3209)Met+(0.1082)Phe;0.739,0.776,0.765,0.758,0.734,0.809,0.814,0.779,(2.3258)+(-0.0079)Ala+(-0.0085)Tyr+(-0.2210)Met+(0.0102)Orn+(0.0626)Ile;0.739,0.776,0.764,0.781,0.762,0.828,0.680,0.763,(1.6000)+(0.0365)Ser+(-0.1441)Asn+(0.0051)Gln+(-0.0771)Cit+(-0.0093)Lys;0.739,0.772,0.762,0.774,0.769,0.729,0.738,0.753,(0.8344)+(0.0084)Pro+(-0.3042)Met+(-0.0051)Lys+(-0.0103)Leu+(0.0975)Phe;0.739,0.775,0.700,0.687,0.653,0.822,0.747,0.727,(-1.0044)+(0.0332)Ser+(-0.0022)Gln+(-0.0125)Ala+(-0.0263)Arg+(0.0546)Ile;0.739,0.776,0.763,0.790,0.746,0.851,0.661,0.762,(0.9676)+(0.0345)Ser+(-0.0025)Ala+(-0.0021)Val+(-0.2118)Met+(-0.0011)Lys;0.739,0.770,0.795,0.818,0.784,0.773,0.770,0.787,(1.6087)+(-0.0029)Ala+(-0.0073)Arg+(-0.0120)Val+(-0.2432)Met+(0.1117)Phe;0.739,0.773,0.766,0.777,0.778,0.740,0.731,0.756,(-1.1052)+(0.0065)Gln+(-0.0788)Cit+(0.0064)Pro+(-0.3443)Met+(0.0933)Phe;0.739,0.775,0.790,0.820,0.749,0.863,0.743,0.794,(2.0672)+(0.0340)Ser+(-0.1495)Asn+(0.0031)Gln+(-0.0035)Ala+(-0.0087)Val;0.739,0.773,0.756,0.755,0.778,0.823,0.667,0.756,(4.2043)+(-0.0902)Cit+(0.0086)Pro+(-0.0116)Val+(-0.1989)Met+(0.0512)Orn;0.739,0.771,0.728,0.713,0.723,0.821,0.710,0.742,(-0.8775)+(0.0236)Ser+(-0.0136)Ala+(-

0.1271)Cit+(0.0424)Orn+(0.0432)Phe;0.739,0.775,0.723,0.751,0.689,0.78
8,0.674,0.725,(-0.6991)+(0.0290)Ser+(-0.0087)Ala+(-0.0879)Cit+(-0.055
5)Tyr+(0.0816)Phe;0.739,0.776,0.706,0.762,0.673,0.766,0.581,0.696,(-1
.0112)+(0.0306)Ser+(-0.0287)Arg+(-0.0638)Tyr+(-0.0148)Val+(0.0943)Phe
;0.738,0.774,0.740,0.728,0.764,0.781,0.692,0.741,(2.7553)+(-0.0254)As
n+(0.0056)Gly+(-0.0765)Cit+(-0.2364)Met+(0.0576)Ile;0.738,0.769,0.750
,0.735,0.751,0.785,0.765,0.759,(2.6952)+(-0.0142)Asn+(-0.2373)Met+(0.
0148)Orn+(-0.0115)Lys+(0.0529)Ile;0.738,0.777,0.766,0.795,0.744,0.851
,0.670,0.765,(0.4113)+(0.0337)Ser+(0.0014)Gln+(-0.0029)Ala+(-0.2202)M
et+(-0.0027)Lys;0.738,0.778,0.766,0.797,0.757,0.849,0.645,0.762,(1.32
58)+(0.0355)Ser+(-0.0024)Ala+(-0.0116)Arg+(-0.0024)Val+(-0.1972)Met;0
.738,0.771,0.740,0.758,0.769,0.719,0.648,0.723,(0.9039)+(-0.0431)Asn+
(0.0298)Thr+(-0.0181)Arg+(-0.3395)Met+(0.0944)Phe;0.738,0.774,0.796,0
.806,0.798,0.849,0.728,0.795,(4.1210)+(-0.1381)Asn+(0.0056)Gln+(-0.10
16)Cit+(-0.0151)Val+(0.0563)Orn;0.738,0.785,0.729,0.726,0.781,0.743,0
.622,0.718,(0.4158)+(0.0258)Thr+(-0.0979)Cit+(-0.3757)Met+(0.0266)Orn
+(0.0931)Phe;0.738,0.774,0.758,0.762,0.793,0.827,0.627,0.752,(4.0289)
+(0.0149)Thr+(-0.0960)Cit+(-0.0090)Val+(-0.2229)Met+(0.0483)Orn;0.738
,0.776,0.769,0.792,0.745,0.847,0.704,0.772,(2.1463)+(0.0391)Ser+(-0.1
167)Asn+(-0.0048)Ala+(-0.0101)Arg+(-0.0040)Lys;0.738,0.773,0.741,0.74
2,0.727,0.830,0.702,0.750,(-0.3980)+(0.0346)Ser+(-0.0092)Ala+(-0.0901
)Cit+(-0.0197)Lys+(0.0730)Phe;0.738,0.771,0.788,0.816,0.770,0.765,0.7
67,0.780,(1.4614)+(-0.0026)Ala+(-0.0185)Tyr+(-0.0119)Val+(-0.2312)Met
+(0.1161)Phe;0.738,0.771,0.725,0.704,0.712,0.809,0.746,0.743,(2.0626)
+(-0.0130)Thr+(-0.1038)Cit+(0.0386)Orn+(0.1544)Ile+(-0.0926)Leu;0.738
,0.779,0.752,0.747,0.715,0.800,0.806,0.767,(3.0684)+(-0.0958)Asn+(-0.
0032)Thr+(0.0134)Orn+(0.1406)Ile+(-0.0838)Leu;0.738,0.771,0.754,0.772
,0.752,0.829,0.656,0.752,(3.3032)+(0.0384)Ser+(-0.1275)Asn+(-0.0603)C

it+(-0.0066)Val+(-0.0032)Lys;0.738,0.779,0.770,0.786,0.751,0.829,0.722,0.772,(1.0714)+(0.0452)Ser+(-0.0074)Gly+(0.0013)Tyr+(-0.0038)Val+(-0.2331)Met;0.738,0.779,0.736,0.764,0.741,0.817,0.592,0.729,(-0.0010)+(0.0335)Ser+(0.0007)Gln+(0.0079)Thr+(0.0017)Tyr+(-0.2872)Met;0.738,0.772,0.767,0.777,0.777,0.749,0.731,0.758,(0.8016)+(-0.2758)Met+(0.0208)Orn+(-0.0080)Lys+(-0.0084)Leu+(0.0916)Phe;0.738,0.777,0.702,0.697,0.701,0.771,0.668,0.709,(-0.8647)+(0.0466)Ser+(-0.1633)Asn+(0.0144)Orn+(-0.0175)Lys+(0.0588)Phe;0.738,0.772,0.738,0.721,0.761,0.785,0.703,0.742,(3.0190)+(-0.0925)Cit+(-0.0210)Tyr+(-0.2204)Met+(0.0344)Orn+(0.0464)Ile;0.738,0.773,0.753,0.755,0.710,0.825,0.784,0.768,(2.8944)+(0.0080)Thr+(-0.0122)Ala+(-0.0903)

Cit+(-0.0403)Tyr+(0.0625)Ile;0.738,0.782,0.780,0.800,0.754,0.837,0.739,0.783,(0.5467)+(0.0432)Ser+(-0.0078)Gly+(0.0020)Gln+(-0.0041)Val+(-0.2411)Met;0.738,0.769,0.795,0.820,0.776,0.770,0.786,0.788,(-0.8379)+(0.0045)Gln+(-0.0048)Ala+(-0.2904)Met+(-0.0054)Leu+(0.0959)Phe;0.738,0.771,0.716,0.729,0.709,0.744,0.676,0.715,(-0.6751)+(0.0436)Ser+(-0.1904)Asn+(0.0038)Pro+(-0.0215)Leu+(0.0721)Phe;0.738,0.778,0.719,0.742,0.749,0.707,0.603,0.700,(0.8029)+(0.0336)Thr+(-0.0802)Cit+(-0.0374)Tyr+(-0.3489)Met+(0.1160)Phe;0.738,0.772,0.731,0.756,0.750,0.701,0.647,0.714,(-0.4626)+(0.0011)Gly+(0.0220)Thr+(-0.3764)Met+(-0.0094)Leu+(0.1039)Phe;0.738,0.772,0.775,0.802,0.739,0.857,0.716,0.778,(2.7769)+(0.0369)Ser+(-0.1305)Asn+(-0.0035)Ala+(-0.0075)Val+(-0.0017)Lys;0.738,0.781,0.746,0.755,0.706,0.844,0.738,0.761,(1.8955)+(0.0395)Ser+(-0.1248)Asn+(-0.0086)Ala+(0.0121)Pro+(-0.0078)Lys;0.738,0.781,0.716,0.727,0.734,0.794,0.594,0.712,(-0.1205)+(0.0372)Ser+(0.0108)Thr+(-0.2937)Met+(-0.0085)Lys+(0.0144)Leu;0.738,0.772,0.769,0.770,0.777,0.840,0.701,0.772,(4.8151)+(-0.0081)Ala+(-0.1186)Cit+(-0.0256)Tyr+(0.0660)Orn+(-0.0125)Lys;0.738,0.776,0.715,0.723,0.724,0.794,0.615,0.714,(-0.2532)+(0.

0382)Ser+(-0.2614)Met+(0.0174)Orn+(-0.0092)Lys+(0.0113)Leu;0.738,0.773,0.746,0.761,0.763,0.723,0.688,0.734,(0.1914)+(0.0032)Gly+(-0.0114)Arg+(0.0074)Pro+(-0.3288)Met+(0.0905)Phe;0.738,0.776,0.702,0.710,0.705,0.776,0.622,0.703,(-0.3445)+(0.0414)Ser+(0.0096)Pro+(-0.2938)Met+(-0.0063)Lys+(0.0085)Leu;0.738,0.772,0.767,0.772,0.782,0.758,0.725,0.759,(1.0984)+(-0.0094)Arg+(-0.2727)Met+(0.0212)Orn+(-0.0085)Lys+(0.0842)Phe;0.738,0.769,0.767,0.756,0.783,0.854,0.701,0.773,(4.0627)+(0.0020)Gly+(-0.0097)Ala+(-0.1262)Cit+(0.0647)Orn+(-0.0149)Lys;0.738,0.769,0.738,0.726,0.742,0.837,0.690,0.749,(0.9603)+(0.0210)Ser+(-0.0118)Ala+(-0.1247)Cit+(0.0484)Orn+(-0.0003)Leu;0.737,0.770,0.743,0.753,0.756,0.785,0.663,0.739,(4.8750)+(-0.0893)Asn+(-0.1005)Cit+(0.0040)Pro+(-0.0494)Tyr+(0.0523)Orn;0.737,0.769,0.738,0.753,0.758,0.722,0.669,0.725,(0.2455)+(0.0254)Thr+(-0.3565)Met+(-0.0102)Lys+(-0.0048)Leu+(0.1041)Phe;0.737,0.775,0.699,0.696,0.695,0.760,0.670,0.705,(-0.8595)+(0.0476)Ser+(-0.1627)Asn+(0.0025)Pro+(-0.0163)Lys+(0.0610)Phe;0.737,0.776,0.736,0.760,0.744,0.812,0.599,0.729,(0.1415)+(0.0351)Ser+(0.0010)Gln+(-0.0168)Arg+(-0.2491)Met+(0.0196)Orn;0.737,0.776,0.762,0.791,0.727,0.835,0.703,0.764,(2.3573)+(0.0378)Ser+(-0.1192)Asn+(-0.0041)Ala+(-0.0172)Tyr+(-0.0039)Lys;0.737,0.775,0.766,0.789,0.742,0.843,0.696,0.768,(2.0482)+(0.0380)Ser+(-0.1260)Asn+(0.0025)Thr+(-0.0053)Ala+(-0.0128)Arg;0.737,0.778,0.719,0.734,0.724,0.794,0.615,0.717,(-0.5969)+(0.0376)Ser+(-0.0000)Gln+(-0.2882)Met+(0.0131)Orn+(0.0077)Leu;0.737,0.767,0.748,0.748,0.746,0.766,0.739,0.750,(0.7360)+(-0.0538)Asn+(0.0045)Gln+(0.0170)Thr+(-0.3146)Met+(0.0478)Ile;0.737,0.771,0.719,0.721,0.731,0.781,0.646,0.720,(1.7922)+(0.0413)Ser+(-0.1427)Asn+(-0.0035)Thr+(-0.0714)Cit+(0.0049)Pro;0.737,0.777,0.693,0.709,0.725,0.795,0.514,0.686,(1.2003)+(0.0234)Ser+(-0.0970)Cit+(-0.0159)Arg+(-0.0556)Tyr+(0.0429)Orn;0.737,0.775,0.765,0.758,0.752,0.798,0.785,0.773,(0.9754)+(0.0047)Gln+(0.001

2)Pro+(-0.2827)Met+(-0.0124)Lys+(0.0579)Ile;0.737,0.777,0.702,0.722,0.699,0.780,0.600,0.700,(-0.3050)+(0.0377)Ser+(0.0099)Pro+(-0.0078)Tyr+(-0.2946)Met+(0.0109)Orn;0.737,0.780,0.725,0.743,0.738,0.799,0.598,0.719,(-0.0030)+(0.0378)Ser+(-0.0152)Arg+(-0.2622)Met+(0.0178)Orn+(0.0062)Leu;0.737,0.779,0.710,0.711,0.705,0.769,0.677,0.716,(-0.8385)+(0.0479)Ser+(-0.1598)Asn+(-0.0019)Thr+(-0.0151)Lys+(0.0632)Phe;0.737,0.778,0.773,0.793,0.759,0.820,0.715,0.772,(0.3166)+(0.0453)Ser+(-0.0078)Gly+(0.0027)Gln+(-0.0143)Arg+(-0.2418)Met;0.737,0.781,0.744,0.774,0.746,0.840,0.591,0.738,(0.9931)+(0.0319)Ser+(0.0103)Thr+(-0.0039)Val+(-0.2580)Met+(-0.0026)Lys;0.737,0.773,0.746,0.751,0.740,0.722,0.762,0.744,(0.9175)+(-0.0256)Asn+(-0.0298)Tyr+(-0.2701)Met+(0.0402)Ile+(0.0748)Phe;0.737,0.769,0.778,0.791,0.769,0.773,0.765,0.774,(0.6403)+(-0.0052)Ala+(-0.2592)Met+(0.0191)Orn+(-0.0079)Leu+(0.0914)Phe;0.737,0.768,0.765,0.777,0.773,0.747,0.730,0.757,(1.8318)+(-0.0511)Cit+(0.0105)Pro+(-0.0145)Val+(-0.2889)Met+(0.1115)Phe;0.737,0.771,0.726,0.718,0.737,0.767,0.697,0.730,(2.5230)+(0.0241)Thr+(-0.0135)Arg+(-0.3063)Met+(-0.0112)Lys+(0.0596)Ile;0.737,0.767,0.799,0.827,0.792,0.747,0.775,0.785,(-0.4466)+(-0.0670)Asn+(0.0064)Gln+(-0.2649)Met+(-0.0113)Leu+(0.0946)Phe;0.737,0.775,0.763,0.780,0.754,0.815,0.703,0.763,(1.0909)+(0.0476)Ser+(-0.0073)Gly+(-0.0112)Arg+(-0.2245)Met+(-0.0013)Lys;0.737,0.773,0.790,0.788,0.799,0.844,0.736,0.792,(2.8726)+(0.0039)Gln+(-0.0073)Ala+(-0.1113)Cit+(-0.1612)Met+(0.0506)Orn;0.737,0.777,0.715,0.726,0.715,0.756,0.658,0.714,(-1.0221)+(0.0479)Ser+(-0.1677)Asn+(-0.0035)Thr+(-0.0195)Arg+(0.0568)Phe;0.737,0.771,0.757,0.773,0.757,0.746,0.721,0.749,(1.1226)+(-0.0299)Tyr+(-0.2398)Met+(0.0221)Orn+(-0.0101)Lys+(0.0926)Phe;0.737,0.772,0.773,0.789,0.736,0.828,0.771,0.781,(2.6471)+(0.0466)Ser+(-0.1210)Asn+(-0.0070)Gly+(-0.0040)Ala+(-0.0254)Tyr;0.737,0.768,0.736,0.740,0.743,0.763,0.690,0.734,(0.5749)+(0.0043)Gln+(0.0208)Thr+(-

0.0223)Arg+(-0.3495)Met+(0.0532)Ile;0.737,0.772,0.779,0.807,0.769,0.748,0.749,0.768,(-0.6152)+(0.0052)Gln+(-0.0258)Tyr+(-0.2783)Met+(-0.0089)Lys+(0.0997)Phe;0.737,0.768,0.748,0.750,0.735,0.825,0.712,0.756,(3.8335)+(-0.0121)Ala+(-0.1171)Cit+(0.0121)Pro+(-0.0416)Tyr+(0.0537)Orn;0.737,0.764,0.768,0.782,0.779,0.744,0.725,0.758,(1.0824)+(-0.0381)Asn+(0.0031)Gly+(-0.2588)Met+(-0.0054)Lys+(0.0918)Phe;0.737,0.775,0.726,0.723,0.700,0.792,0.739,0.738,(0.9792)+(-0.0696)Cit+(-0.0216)Arg+(0.1627)Ile+(-0.1013)Leu+(0.0524)Phe;0.737,0.774,0.762,0.767,0.731,0.810,0.781,0.772,(3.8433)+(-0.0651)Asn+(-0.0211)Arg+(-0.0032)Pro+(0.1577)Ile+(-0.0880)Leu;0.737,0.773,0.756,0.772,0.753,0.810,0.677,0.753,(1.3065)+(0.0360)Ser+(-0.1626)Asn+(0.0046)Gln+(-0.0770)Cit+(-0.0028)Leu;0.737,0.772,0.790,0.798,0.791,0.787,0.770,0.787,(2.5393)+(-0.0312)Asn+(-0.0057)Ala+(-0.0655)Cit+(-0.1916)Met+(0.0942)Phe;0.737,0.773,0.751,0.771,0.733,0.832,0.674,0.753,(2.5731)+(0.0354)Ser+(-0.1567)Asn+(-0.0020)Thr+(-0.0143)Val+(0.0306)Orn;0.737,0.775,0.707,0.726,0.705,0.780,0.610,0.705,(-0.2428)+(0.0387)Ser+(0.0003)Gln+(0.0106)Pro+(-0.0050)Tyr+(-0.2944)Met;0.737,0.773,0.790,0.812,0.792,0.763,0.749,0.779,(-0.8121)+(0.0060)Gln+(-0.0129)Arg+(-0.3073)Met+(-0.0068)Lys+(0.0923)Phe;0.737,0.771,0.775,0.807,0.767,0.748,0.727,0.762,(0.9654)+(0.0020)Gly+(-0.0186)Tyr+(-0.0133)Val+(-0.2580)Met+(0.1192)Phe;0.737,0.767,0.722,0.709,0.726,0.769,0.712,0.729,(2.0670)+(0.0008)Gly+(0.0200)Thr+(-0.3114)Met+(-0.0133)Lys+(0.0611)Ile;0.737,0.779,0.722,0.744,0.714,0.806,0.619,0.721,(0.7433)+(0.0368)Ser+(0.0128)Pro+(-0.0002)Tyr+(-0.0081)Val+(-0.2757)Met;0.737,0.771,0.744,0.741,0.745,0.845,0.681,0.753,(1.4978)+(0.0197)Ser+(-0.0102)Ala+(-0.1192)Cit+(-0.0065)Val+(0.0526)Orn;0.737,0.768,0.733,0.756,0.752,0.705,0.656,0.717,(-0.3343)+(0.0210)Thr+(-0.3697)Met+(0.0061)Orn+(-0.0105)Leu+(0.1011)Phe;0.737,0.774,0.738,0.742,0.751,0.813,0.643,0.737,(2.4714)+(0.0408)Ser+(-0.1220)Asn+(-0.0697)Ci

t+(-0.0097)Lys+(0.0042)Leu;0.737,0.770,0.756,0.738,0.775,0.776,0.752,0.760,(3.3132)+(-0.0150)Asn+(-0.0662)Cit+(0.0025)Pro+(-0.2413)Met+(0.0511)Ile;0.737,0.771,0.780,0.795,0.766,0.822,0.740,0.781,(2.5699)+(-0.1011)Asn+(0.0060)Gly+(-0.0087)Ala+(-0.0844)Cit+(0.0723)Phe;0.737,0.780,0.742,0.768,0.736,0.837,0.619,0.740,(0.6157)+(0.0318)Ser+(0.0002)Gln+(-0.0067)Val+(-0.2440)Met+(0.0225)Orn;0.737,0.775,0.768,0.767,0.739,0.839,0.781,0.781,(1.7154)+(0.0450)Ser+(-0.1443)Asn+(-0.0060)Gly+(-0.0065)Ala+(0.0202)Orn;0.736,0.778,0.770,0.787,0.750,0.833,0.723,0.773,(1.1635)+(0.0454)Ser+(-0.0075)Gly+(-0.0034)Val+(-0.2244)Met+(-0.0017)Lys;0.736,0.775,0.695,0.689,0.697,0.756,0.664,0.701,(-1.4343)+(0.0476)Ser+(-0.1725)Asn+(-0.0223)Arg+(0.0222)Ile+(0.0423)Phe;0.736,0.771,0.759,0.764,0.728,0.806,0.776,0.768,(3.7879)+(-0.0683)Asn+(-0.0218)Arg+(0.0006)Lys+(0.1524)Ile+(-0.0877)Leu;0.736,0.777,0.717,0.709,0.656,0.824,0.790,0.745,(-1.7404)+(0.0364)Ser+(-0.0136)Thr+(-0.0120)Ala+(-0.0223)Arg+(0.0573)Ile;0.736,0.775,0.770,0.763,0.777,0.793,0.755,0.772,(0.9349)+(0.0062)Gln+(-0.0778)Cit+(-0.0028)Arg+(-0.2896)Met+(0.0559)Ile;0.736,0.773,0.712,0.717,0.715,0.783,0.641,0.714,(1.3390)+(0.0315)Ser+(-0.0081)Gly+(-0.1004)Cit+(-0.0661)Tyr+(0.0423)Orn;0.736,0.769,0.724,0.709,0.730,0.771,0.715,0.731,(2.1550)+(0.0196)Thr+(-0.3080)Met+(0.0041)Orn+(-0.0138)Lys+(0.0595)Ile;0.736,0.774,0.756,0.788,0.720,0.830,0.691,0.757,(2.3319)+(0.0361)Ser+(-0.1303)Asn+(0.0033)Thr+(-0.0045)Ala+(-0.0220)Tyr;0.736,0.772,0.726,0.710,0.674,0.825,0.804,0.753,(-1.2004)+(0.0371)Ser+(-0.0055)Gly+(-0.0127)Ala+(-0.0273)Arg+(0.0506)Ile;0.736,0.771,0.729,0.731,0.699,0.781,0.751,0.741,(1.1580)+(-0.0317)Arg+(-0.0066)Lys+(0.1582)Ile+(-0.0983)Leu+(0.0474)Phe;0.736,0.770,0.728,0.726,0.673,0.773,0.817,0.747,(-0.0140)+(-0.0152)Thr+(-0.0062)Pro+(0.1663)Ile+(-0.1016)Leu+(0.0407)Phe;0.736,0.768,0.760,0.766,0.739,0.795,0.763,0.766,(3.9218)+(0.0012)Gly+(0.0108)Pro+(-0.0382)Val+(-0.2597)

Met+(0.0600)Leu;0.736,0.779,0.734,0.760,0.742,0.821,0.584,0.727,(0.5045)+(0.0341)Ser+(0.0095)Thr+(0.0027)Tyr+(-0.2701)Met+(-0.0044)Lys;0.736,0.767,0.699,0.678,0.689,0.783,0.716,0.716,(-0.0436)+(-0.1106)Cit+(0.0271)Orn+(0.1514)Ile+(-0.0984)Leu+(0.0397)Phe;0.736,0.768,0.786,0.808,0.783,0.756,0.757,0.776,(-0.8501)+(0.0051)Gln+(-0.3092)Met+(-0.0077)Lys+(-0.0055)Leu+(0.0965)Phe;0.736,0.775,0.733,0.737,0.726,0.711,0.753,0.732,(0.3195)+(0.0045)Pro+(-0.0310)Tyr+(-0.3125)Met+(0.0376)Ile+(0.0771)Phe;0.736,0.773,0.789,0.782,0.747,0.838,0.863,0.807,(2.6072)+(-0.0738)Asn+(-0.0104)Ala+(-0.0142)Lys+(0.0467)Ile+(0.0351)Phe;0.736,0.780,0.727,0.749,0.732,0.811,0.595,0.722,(-0.0836)+(0.0340)Ser+(0.0000)Gln+(0.0050)Thr+(-0.2834)Met+(0.0142)Orn;0.736,0.778,0.770,0.787,0.748,0.827,0.732,0.774,(0.2449)+(0.0450)Ser+(-0.0078)Gly+(0.0021)Gln+(-0.2418)Met+(-0.0042)Lys;0.736,0.769,0.745,0.766,0.753,0.716,0.693,0.732,(0.0105)+(0.0026)Gly+(0.0086)Pro+(-0.3292)Met+(-0.0126)Leu+(0.1003)Phe;0.736,0.769,0.753,0.763,0.769,0.790,0.667,0.747,(4.9698)+(-0.0881)Asn+(-0.1020)Cit+(0.0001)Arg+(-0.0445)Tyr+(0.0544)Orn;0.736,0.779,0.732,0.726,0.782,0.759,0.624,0.723,(0.2583)+(0.0052)Gly+(-0.0996)Cit+(-0.2988)Met+(0.0349)Orn+(0.0899)Phe;0.736,0.772,0.738,0.754,0.714,0.783,0.712,0.741,(2.0666)+(0.0472)Ser+(-0.1381)Asn+(-0.0077)Gly+(-0.0450)Tyr+(0.0236)Orn;0.736,0.
771,0.709,0.699,0.667,0.766,0.784,0.729,(0.4612)+(-0.0001)Gln+(-0.0171)Lys+(0.1433)Ile+(-0.0866)Leu+(0.0386)Phe;0.736,0.779,0.722,0.744,0.714,0.805,0.618,0.720,(0.7505)+(0.0369)Ser+(0.0128)Pro+(-0.0080)Val+(-0.2749)Met+(-0.0003)Lys;0.736,0.772,0.746,0.757,0.697,0.837,0.751,0.760,(1.2115)+(0.0374)Ser+(-0.1473)Asn+(0.0013)Gln+(-0.0091)Ala+(0.0110)Pro;0.736,0.772,0.743,0.753,0.755,0.815,0.641,0.741,(2.6738)+(0.0400)Ser+(-0.1223)Asn+(-0.0680)Cit+(-0.0001)Arg+(-0.0079)Lys;0.736,0.770,0.780,0.811,0.772,0.748,0.740,0.768,(1.6677)+(-0.0073)Arg+(-0.0205)T

yr+(-0.0130)Val+(-0.2356)Met+(0.1171)Phe;0.736,0.775,0.732,0.752,0.743,0.815,0.594,0.726,(0.5990)+(0.0360)Ser+(-0.0146)Arg+(-0.2306)Met+(0.0229)Orn+(-0.0042)Lys;0.736,0.773,0.755,0.774,0.755,0.809,0.666,0.751,(1.1701)+(0.0367)Ser+(-0.1589)Asn+(0.0048)Gln+(-0.0735)Cit+(-0.0073)Arg;0.736,0.775,0.758,0.756,0.795,0.769,0.681,0.750,(1.2208)+(-0.0912)Cit+(-0.2626)Met+(0.0408)Orn+(-0.0120)Leu+(0.0900)Phe;0.736,0.769,0.722,0.717,0.674,0.766,0.803,0.740,(0.6686)+(-0.0108)Thr+(-0.0123)Lys+(0.1508)Ile+(-0.0910)Leu+(0.0406)Phe;0.736,0.768,0.774,0.776,0.791,0.828,0.695,0.773,(5.6575)+(-0.1065)Asn+(-0.0953)Cit+(-0.0023)Arg+(-0.0149)Val+(0.0617)Orn;0.736,0.768,0.781,0.770,0.790,0.858,0.732,0.788,(3.3915)+(0.0028)Gln+(-0.0099)Ala+(-0.1262)Cit+(0.0623)Orn+(-0.0166)Lys;0.736,0.772,0.778,0.767,0.796,0.834,0.727,0.781,(4.1141)+(-0.0077)Ala+(-0.1095)Cit+(-0.1434)Met+(0.0542)Orn+(0.0038)Leu;0.736,0.773,0.763,0.763,0.745,0.793,0.780,0.770,(1.1622)+(0.0048)Gln+(-0.0121)Tyr+(-0.2595)Met+(-0.0122)Lys+(0.0599)Ile;0.736,0.772,0.775,0.786,0.772,0.825,0.716,0.775,(4.4508)+(0.0040)Gly+(-0.0089)Ala+(-0.0773)Cit+(0.0160)Pro+(-0.1629)Met;0.736,0.770,0.770,0.752,0.786,0.849,0.731,0.779,(4.2538)+(-0.0100)Ala+(-0.1240)Cit+(0.0638)Orn+(-0.0162)Lys+(0.0051)Leu;0.736,0.768,0.757,0.741,0.768,0.787,0.754,0.762,(3.7788)+(-0.0641)Cit+(-0.0104)Tyr+(-0.2064)Met+(-0.0086)Lys+(0.0606)Ile;0.736,0.772,0.750,0.769,0.749,0.824,0.648,0.748,(3.3579)+(0.0367)Ser+(-0.1413)Asn+(0.0044)Thr+(-0.0608)Cit+(-0.0083)Val;0.736,0.771,0.746,0.736,0.787,0.824,0.630,0.744,(4.3279)+(-0.0919)Asn+(0.0038)Gly+(-0.1119)Cit+(0.0558)Orn+(-0.0136)Lys;0.736,0.768,0.785,0.800,0.748,0.850,0.779,0.794,(3.1183)+(0.0455)Ser+(-0.1325)Asn+(-0.0066)Gly+(-0.0034)Ala+(-0.0085)Val;0.736,0.773,0.759,0.786,0.735,0.835,0.684,0.760,(2.1696)+(0.0333)Ser+(-0.1688)Asn+(0.0020)Gln+(-0.0147)Val+(0.0281)Orn;0.736,0.773,0.728,0.732,0.725,0.719,0.730,0.726,(-0.2475)+(0.0029)Gly+(-0.0250)Tyr+(-0.32

17)Met+(0.0441)Ile+(0.0776)Phe;0.736,0.772,0.720,0.724,0.737,0.785,0.630,0.719,(1.9190)+(0.0406)Ser+(-0.1422)Asn+(-0.0680)Cit+(-0.0065)Arg+(0.0048)Pro;0.736,0.767,0.773,0.765,0.785,0.851,0.715,0.779,(4.4390)+(-0.0087)Ala+(-0.1193)Cit+(-0.0045)Val+(0.0659)Orn+(-0.0129)Lys;0.736,0.779,0.767,0.783,0.747,0.818,0.728,0.769,(0.0891)+(0.0450)Ser+(-0.0077)Gly+(0.0018)Gln+(-0.0023)Tyr+(-0.2550)Met;0.736,0.772,0.651,0.650,0.658,0.752,0.563,0.656,(-0.3056)+(0.0235)Ser+(-0.1076)Cit+(-0.0714)Tyr+(0.0304)Orn+(0.0354)Ile;0.735,0.774,0.720,0.719,0.720,0.751,0.699,0.722,(-0.6212)+(0.0521)Ser+(-0.1688)Asn+(-0.0045)Gly+(-0.0202)Arg+(0.0524)Phe;0.735,0.781,0.723,0.725,0.768,0.719,0.628,0.710,(0.4121)+(0.0291)Thr+(-0.0813)Cit+(0.0062)Pro+(-0.4028)Met+(0.0998)Phe;0.735,0.780,0.740,0.764,0.739,0.833,0.615,0.738,(0.8067)+(0.0323)Ser+(-0.0059)Val+(-0.2298)Met+(0.0244)Orn+(-0.0041)Lys;0.735,0.775,0.710,0.717,0.716,0.760,0.644,0.709,(-0.9980)+(0.0461)Ser+(-0.1743)Asn+(-0.0221)Arg+(0.0098)Orn+(0.0522)Phe;0.735,0.772,0.788,0.805,0.787,0.754,0.772,0.780,(-0.6609)+(-0.0630)Asn+(0.0058)Gln+(-0.2874)Met+(0.0084)Orn+(0.0810)Phe;0.735,0.769,0.723,0.709,0.728,0.770,0.717,0.731,(2.1820)+(0.0203)Thr+(0.0006)Pro+(-0.3117)Met+(-0.0133)Lys+(0.0598)Ile;0.735,0.771,0.726,0.731,0.737,0.791,0.642,0.725,(2.1719)+(0.0395)Ser+(-0.1448)Asn+(-0.0707)Cit+(0.0055)Pro+(-0.0053)Leu;0.735,0.773,0.722,0.747,0.731,0.709,0.645,0.708,(0.5206)+(0.0297)Thr+(-0.0367)Tyr+(-0.3240)Met+(-0.0121)Lys+(0.1135)Phe;0.735,0.770,0.769,0.773,0.786,0.830,0.679,0.767,(5.6371)+(-0.1244)Asn+(0.0085)Thr+(-0.0977)Cit+(-0.0156)Val+(0.0586)Orn;0.735,0.769,0.779,0.824,0.747,0.749,0.746,0.766,(3.2431)+(-0.1138)Asn+(0.0020)Gly+(-0.0484)Tyr+(-0.0165)Val+(0.1018)Phe;0.735,0.779,0.743,0.767,0.738,0.838,0.620,0.741,(0.6210)+(0.0322)Ser+(0.0024)Tyr+(-0.0068)Val+(-0.2470)Met+(0.0224)Orn;0.735,0.775,0.763,0.779,0.754,0.813,0.703,0.762,(1.0499)+(0.0475)Ser+(-0.0073)Gly+(-0.0117)Arg+(-0.001

3)Tyr+(-0.2274)Met;0.735,0.772,0.766,0.768,0.741,0.789,0.797,0.774,(3
.6940)+(-0.1594)Asn+(-0.0470)Val+(0.0369)Orn+(0.0502)Leu+(0.0589)Phe;
0.735,0.777,0.698,0.726,0.701,0.673,0.637,0.684,(-0.3305)+(0.0249)Thr
+(0.0078)Pro+(-0.0420)Tyr+(-0.3715)Met+(0.1068)Phe;0.735,0.771,0.735,
0.724,0.709,0.819,0.757,0.752,(2.9504)+(-0.0023)Thr+(-0.0793)Cit+(-0.
0107)Lys+(0.1559)Ile+(-0.0824)Leu;0.735,0.767,0.789,0.803,0.782,0.771
,0.780,0.784,(1.2270)+(-0.0047)Ala+(-0.2455)Met+(-0.0047)Lys+(-0.0028
)Leu+(0.0960)Phe;0.735,0.775,0.756,0.771,0.725,0.842,0.720,0.765,(1.5
560)+(0.0367)Ser+(-0.1458)Asn+(-0.0062)Ala+(0.0211)Orn+(-0.0020)Leu;0
.735,0.770,0.675,0.677,0.601,0.798,0.738,0.703,(-0.3050)+(0.0303)Ser+
(-0.0033)Gln+(-0.0107)Ala+(-0.0460)Tyr+(0.0588)Ile;0.735,0.774,0.749,
0.779,0.734,0.708,0.728,0.737,(-1.0271)+(0.0042)Gln+(0.0079)Pro+(-0.0
329)Tyr+(-0.3222)Met+(0.0958)Phe;0.735,0.773,0.685,0.706,0.596,0.782,
0.750,0.708,(-2.1630)+(0.0257)Ser+(-0.0115)Ala+(-0.0629)Tyr+(0.0463)I
le+(0.0432)Phe;0.735,0.772,0.732,0.717,0.756,0.777,0.688,0.735,(2.325
6)+(0.0051)Gly+(-0.0772)Cit+(0.0025)Pro+(-0.2713)Met+(0.0567)Ile;0.73
5,0.777,0.715,0.719,0.704,0.771,0.687,0.720,(-1.1862)+(0.0459)Ser+(-0
.1697)Asn+(0.0018)Gln+(-0.0158)Lys+(0.0614)Phe;0.735,0.772,0.725,0.75
9,0.731,0.686,0.652,0.707,(0.9947)+(-0.0627)Asn+(0.0290)Thr+(-0.0415)
Tyr+(-0.2874)Met+(0.1049)Phe;0.735,0.770,0.743,0.741,0.731,0.846,0.70
1,0.754,(1.9123)+(0.0308)Ser+(-0.0112)Ala+(-0.0859)Cit+(0.0140)Pro+(-
0.0141)Lys;0.735,0.768,0.738,0.725,0.738,0.784,0.743,0.747,(2.2008)+(
0.0017)Gly+(-0.2561)Met+(0.0123)Orn+(-0.0121)Lys+(0.0567)Ile;0.735,0.
768,0.773,0.757,0.786,0.854,0.728,0.781,(4.2799)+(-0.0097)Ala+(-0.126
5)Cit+(0.0041)Arg+(0.0649)Orn+(-0.0158)Lys;0.735,0.768,0.720,0.715,0.
692,0.801,0.732,0.735,(1.7822)+(0.0034)Gly+(-0.0100)Thr+(-0.0833)Cit+
(0.1634)Ile+(-0.0908)Leu;0.735,0.770,0.747,0.732,0.749,0.783,0.752,0.
754,(2.6433)+(-0.0066)Arg+(-0.2439)Met+(0.0157)Orn+(-0.0110)Lys+(0.05

37)Ile;0.735,0.770,0.730,0.739,0.694,0.785,0.741,0.740,(0.1137)+(0.0021)Gln+(-0.0393)Arg+(0.1622)Ile+(-0.1043)Leu+(0.0429)Phe;0.735,0.770,0.762,0.761,0.721,0.822,0.810,0.778,(3.0805)+(-0.0118)Ala+(-0.0867)Cit+(0.0012)Arg+(-0.0344)Tyr+(0.0629)Ile;0.735,0.773,0.753,0.769,0.749,0.805,0.678,0.750,(1.0746)+(0.0372)Ser+(-0.1609)Asn+(0.0047)Gln+(-0.0027)Thr+(-0.0774)Cit;0.735,0.772,0.754,0.774,0.753,0.826,0.654,0.752,(3.2993)+(0.0384)Ser+(-0.1307)Asn+(-0.0570)Cit+(-0.0038)Arg+(-0.0076)Val;0.735,0.762,0.755,0.734,0.717,0.829,0.835,0.779,(1.3253)+(0.0020)Gln+(-0.0161)Ala+(-0.1012)Cit+(0.0071)Pro+(0.0540)Ile;0.735,0.771,0.750,0.752,0.755,0.810,0.694,0.753,(2.7915)+(0.0459)Ser+(-0.1191)Asn+(-0.0045)Gly+(-0.0621)Cit+(-0.0089)Lys;0.735,0.778,0.731,0.754,0.741,0.812,0.592,0.725,(0.4296)+(0.0360)Ser+(-0.0161)Arg+(-0.0016)Tyr+(-0.2423)Met+(0.0208)Orn;0.735,0.776,0.763,0.776,0.746,0.819,0.720,0.765,(0.8159)+(0.0468)Ser+(-0.0075)Gly+(-0.0007)Tyr+(-0.2325)Met+(-0.0033)Lys;0.735,0.771,0.776,0.773,0.790,0.835,0.714,0.778,(4.3850)+(-0.0071)Ala+(-0.1092)Cit+(-0.0116)Tyr+(-0.1211)Met+(0.0568)Orn;0.735,0.764,0.771,0.786,0.779,0.742,0.736,0.761,(1.3500)+(-0.0493)Asn+(-0.2409)Met+(0.0202)Orn+(-0.0140)Leu+(0.0901)Phe;0.735,0.777,0.737,0.749,0.777,0.728,0.626,0.720,(0.6282)+(0.0296)Thr+(-0.0785)Cit+(-0.3734)Met+(-0.0057)Leu+(0.1068)Phe;0.735,0.770,0.762,0.780,0.779,0.765,0.678,0.750,(0.9844)+(0.0052)Gly+(-0.0648)Cit+(-0.0114)Val+(-0.2710)Met+(0.1205)Phe;0.735,0.768,0.788,0.808,0.802,0.812,0.686,0.777,(2.9364)+(-0.0850)Asn+(0.0071)Gln+(0.0221)Thr+(-0.0788)Cit+(-0.2175)Met;0.735,0.767,0.796,0.807,0.781,0.832,0.771,0.798,(2.8696)+(0.0057)Gln+(-0.0087)Ala+(-0.0803)Cit+(0.0148)Pro+(-0.1910)Met;0.735,0.774,0.684,0.668,0.671,0.740,0.714,0.698,(-1.9647)+(0.0496)Ser+(-0.1775)Asn+(-0.0110)Thr+(0.0236)Ile+(0.0378)Phe;0.735,0.772,0.749,0.768,0.734,0.838,0.666,0.751,(2.6642)+(0.0354)Ser+(-0.1501)Asn+(-0.0132)Val+(0.0312)Orn+(-0.0046)Lys;0.7

35,0.768,0.765,0.766,0.776,0.827,0.696,0.766,(5.5855)+(-0.1143)Asn+(-0.0942)Cit+(0.0054)Pro+(-0.0169)Val+(0.0593)Orn;0.735,0.765,0.738,0.732,0.702,0.810,0.776,0.755,(1.2673)+(0.0026)Gln+(-0.0110)Thr+(-0.0827)Cit+(0.1625)Ile+(-0.0920)Leu;0.735,0.770,0.770,0.756,0.787,0.852,0.712,0.777,(4.2720)+(0.0052)Thr+(-0.0099)Ala+(-0.1253)Cit+(0.0633)Orn+(-0.0164)Lys;0.735,0.768,0.779,0.782,0.773,0.792,0.776,0.781,(0.9053)+(-0.0381)Asn+(0.0062)Gln+(-0.0136)Arg+(-0.2628)Met+(0.0490)Ile;0.735,0.770,0.778,0.799,0.782,0.754,0.729,0.766,(-1.0502)+(0.0053)Gln+(-0.0183)Arg+(-0.3230)Met+(0.0117)Orn+(0.0853)Phe;0.735,0.773,0.743,0.730,0.781,0.758,0.688,0.739,(1.0675)+(-0.0878)Cit+(0.0050)Pro+(-0.2989)Met+(0.0331)Orn+(0.0784)Phe;0.735,0.776,0.705,0.718,0.708,0.787,0.603,0.704,(-0.0795)+(0.0382)Ser+(0.0095)Pro+(-0.2818)Met+(0.0142)Orn+(-0.0065)Lys;0.735,0.766,0.745,0.735,0.743,0.778,0.752,0.752,(2.4561)+(-0.0150)Asn+(0.0026)Gly+(-0.2440)Met+(-0.0095)Lys+(0.0586)Ile;0.735,0.773,0.786,0.820,0.769,0.755,0.753,0.774,(3.9725)+(-0.0981)Asn+(-0.0531)Cit+(-0.0479)Tyr+(-0.0140)Val+(0.1040)Phe;0.734,0.775,0.728,0.741,0.722,0.746,0.691,0.725,(4.2386)+(-0.1011)Asn+(0.0158)Thr+(-0.0749)Cit+(-0.0556)Tyr+(0.0396)Ile;0.734,0.771,0.714,0.703,0.671,0.767,0.794,0.734,(0.6031)+(-0.0010)Gly+(-0.0168)Lys+(0.1433)Ile+(-0.0868)Leu+(0.0382)Phe;0.734,0.770,0.745,0.728,0.745,0.782,0.762,0.754,(2.4582)+(0.0015)Pro+(-0.2553)Met+(0.0134)Orn+(-0.0120)Lys+(0.0533)Ile;0.734,0.770,0.783,0.817,0.767,0.736,0.762,0.770,(-0.3313)+(-0.0680)Asn+(0.0064)Gln+(-0.0324)Tyr+(-0.2357)Met+(0.0940)Phe;0.734,0.766,0.784,0.809,0.783,0.750,0.746,0.772,(1.3754)+(-0.0092)Arg+(-0.0143)Val+(-0.2688)Met+(0.0028)Lys+(0.1123)Phe;0.734,0.766,0.778,0.798,0.769,0.763,0.753,0.771,(0.4610)+(0.0025)Gly+(-0.0048)Ala+(-0.2668)Met+(-0.0046)Leu+(0.0986)Phe;0.734,0.770,0.725,0.730,0.762,0.732,0.630,0.714,(0.2562)+(0.0063)Gly+(-0.0777)Cit+(0.0078)Pro+(-0.3257)Met+(0.1003)Phe;0.734,0.769,0.68

1,0.665,0.674,0.744,0.696,0.6
94,(-1.6562)+(0.0455)Ser+(-0.1941)Asn+(-0.0022)Pro+(0.0229)Ile+(0.036
8)Phe;0.734,0.766,0.767,0.754,0.803,0.822,0.683,0.766,(4.8339)+(-0.04
59)Asn+(-0.0992)Cit+(-0.1264)Met+(0.0544)Orn+(-0.0083)Lys;0.734,0.765
,0.752,0.728,0.719,0.828,0.833,0.777,(2.1049)+(0.0006)Thr+(-0.0159)Al
a+(-0.0968)Cit+(0.0076)Pro+(0.0539)Ile;0.734,0.772,0.764,0.786,0.731,
0.847,0.715,0.770,(2.0734)+(0.0378)Ser+(-0.1260)Asn+(0.0021)Thr+(-0.0
051)Ala+(-0.0063)Lys;0.734,0.766,0.766,0.784,0.772,0.719,0.740,0.754,
(1.3231)+(-0.0387)Asn+(0.0081)Pro+(-0.2719)Met+(-0.0140)Leu+(0.0958)P
he;0.734,0.775,0.778,0.798,0.751,0.789,0.774,0.778,(2.3420)+(-0.1146)
Asn+(0.0073)Gln+(-0.0825)Cit+(-0.0495)Tyr+(0.0387)Ile;0.734,0.770,0.7
35,0.746,0.743,0.799,0.640,0.732,(2.2750)+(0.0394)Ser+(-0.1400)Asn+(-
0.0003)Thr+(-0.0692)Cit+(-0.0016)Leu;0.734,0.781,0.694,0.678,0.688,0.
791,0.681,0.709,(0.0495)+(0.0460)Ser+(-0.1241)Asn+(-0.0135)Arg+(-0.01
63)Lys+(0.0451)Ile;0.734,0.779,0.737,0.766,0.740,0.822,0.591,0.730,(0
.2945)+(0.0328)Ser+(0.0010)Gln+(0.0093)Thr+(-0.2689)Met+(-0.0047)Lys;
0.734,0.777,0.734,0.757,0.740,0.799,0.615,0.728,(-0.3493)+(0.0379)Ser
+(0.0016)Gln+(-0.0132)Arg+(-0.2662)Met+(0.0092)Leu;0.734,0.774,0.708,
0.725,0.708,0.782,0.609,0.706,(0.0990)+(0.0392)Ser+(0.0107)Pro+(-0.00
39)Tyr+(-0.2779)Met+(-0.0039)Lys;0.734,0.768,0.787,0.817,0.761,0.763,
0.778,0.780,(-0.7149)+(0.0045)Gln+(-0.0048)Ala+(-0.0216)Tyr+(-0.2680)
Met+(0.0976)Phe;0.734,0.770,0.765,0.775,0.779,0.724,0.742,0.755,(1.23
98)+(-0.0279)Asn+(-0.0080)Arg+(0.0068)Pro+(-0.2880)Met+(0.0840)Phe;0.
734,0.769,0.757,0.763,0.769,0.725,0.740,0.749,(0.8829)+(-0.0370)Asn+(
0.0058)Pro+(-0.2940)Met+(0.0113)Orn+(0.0789)Phe;0.734,0.768,0.753,0.7
38,0.753,0.777,0.772,0.760,(2.7849)+(-0.0103)Asn+(0.0021)Pro+(-0.2470
)Met+(-0.0093)Lys+(0.0548)Ile;0.734,0.769,0.643,0.654,0.630,0.712,0.5
92,0.647,(-1.8455)+(0.0287)Ser+(-0.0916)Cit+(-0.0852)Tyr+(0.0330)Ile+

(0.0540)Phe;0.734,0.768,0.738,0.761,0.746,0.704,0.684,0.724,(-1.6919)+(0.0034)Gln+(0.0207)Thr+(-0.4078)Met+(-0.0022)Orn+(0.0945)Phe;0.734,0.766,0.754,0.730,0.721,0.826,0.833,0.777,(2.2324)+(-0.0156)Ala+(-0.0937)Cit+(-0.0028)Arg+(0.0078)Pro+(0.0538)Ile;0.734,0.776,0.765,0.787,0.739,0.842,0.708,0.769,(1.8763)+(0.0391)Ser+(-0.1240)Asn+(-0.0054)Ala+(-0.0120)Arg+(0.0019)Leu;0.734,0.772,0.761,0.777,0.726,0.843,0.733,0.770,(1.0870)+(0.0359)Ser+(-0.1533)Asn+(0.0015)Gln+(-0.0065)Ala+(0.0188)Orn;0.734,0.777,0.826,0.842,0.787,0.850,0.848,0.832,(3.3652)+(-0.0947)Asn+(0.0072)Gln+(-0.0411)Val+(-0.1782)Met+(0.0672)Leu;0.734,0.768,0.730,0.748,0.710,0.815,0.661,0.733,(2.6092)+(0.0356)Ser+(-0.1675)Asn+(0.0080)Pro+(-0.0176)Val+(0.0270)Orn;0.734,0.778,0.765,0.766,0.792,0.766,0.708,0.758,(-0.8307)+(0.0053)Gln+(-0.0963)Cit+(-0.3179)Met+(0.0293)Orn+(0.0858)Phe;0.734,0.773,0.745,0.749,0.743,0.726,0.753,0.743,(0.7325)+(-0.0089)Arg+(-0.0269)Tyr+(-0.2890)Met+(0.0423)Ile+(0.0750)Phe;0.734,0.766,0.718,0.724,0.686,0.779,0.722,0.728,(0.5718)+(0.0014)Gly+(-0.0369)Arg+(0.1618)Ile+(-0.1036)Leu+(0.0461)Phe;0.734,0.771,0.735,0.771,0.738,0.713,0.649,0.718,(3.2878)+(-0.1247)Asn+(0.0211)Thr+(-0.0742)Cit+(-0.0726)Tyr+(0.0817)Phe;0.734,0.772,0.740,0.745,0.765,0.747,0.668,0.731,(1.4416)+(-0.0928)Cit+(-0.0350)Tyr+(-0.2320)Met+(0.0408)Orn+(0.0889)Phe;0.734,0.773,0.777,0.788,0.749,0.835,0.764,0.784,(2.2843)+(0.0468)Ser+(-0.1216)Asn+(-0.0061)Gly+(-0.0052)Ala+(-0.0117)Arg;0.734,0.768,0.763,0.773,0.753,0.821,0.713,0.765,(3.4299)+(0.0443)Ser+(-0.1331)Asn+(-0.0049)Gly+(-0.0527)Cit+(-0.0084)Val;0.734,0.766,0.778,0.805,0.782,0.749,0.722,0.764,(-1.2524)+(0.0014)Gly+(0.0055)Gln+(-0.0165)Arg+(-0.3261)Met+(0.0914)Phe;0.734,0.768,0.718,0.714,0.714,0.764,0.703,0.724,(2.4695)+(0.0221)Thr+(-0.0198)Tyr+(-0.2844)Met+(-0.0131)Lys+(0.0622)Ile;0.734,0.768,0.777,0.808,0.766,0.742,0.747,0.766,(1.3069)+(-0.0209)Tyr+(-0.0134)Val+(-0.2486)Met+(0.0007)Lys+(0.1172)Phe;0

.734,0.771,0.737,0.747,0.739,0.793,0.666,0.736,(0.9475)+(0.0372)Ser+(-0.1682)Asn+(0.0042)Gln+(-0.0795)Cit+(0.0036)Pro;0.734,0.767,0.778,0.766,0.738,0.841,0.850,0.799,(3.2840)+(-0.0684)Asn+(-0.0099)Ala+(0.0183)Orn+(-0.0151)Lys+(0.0489)Ile;0.734,0.767,0.708,0.696,0.681,0.780,0.742,0.725,(-0.0092)+(0.0004)Gln+(-0.0922)Cit+(0.1585)Ile+(-0.0989)Leu+(0.0445)Phe;0.734,0.777,0.725,0.745,0.734,0.814,0.592,0.721,(0.3366)+(0.0336)Ser+(0.0060)Thr+(-0.2591)Met+(0.0179)Orn+(-0.0069)Lys;0.734,0.777,0.719,0.734,0.723,0.794,0.615,0.717,(-0.5650)+(0.0374)Ser+(-0.0016)Tyr+(-0.2854)Met+(0.0133)Orn+(0.0078)Leu;0.734,0.772,0.707,0.695,0.667,0.766,0.781,0.727,(0.4050)+(0.0043)Orn+(-0.0177)Lys+(0.1417)Ile+(-0.0861)Leu+(0.0373)Phe;0.734,0.766,0.787,0.794,0.791,0.788,0.761,0.783,(2.2092)+(-0.0055)Ala+(-0.0660)Cit+(-0.2126)Met+(-0.0039)Lys+(0.0976)Phe;0.734,0.779,0.726,0.749,0.731,0.811,0.593,0.721,(-0.0340)+(0.0338)Ser+(0.0051)Thr+(-0.0019)Tyr+(-0.2802)Met+(0.0144)Orn;0.733,0.767,0.733,0.748,0.760,0.732,0.640,0.720,(0.6134)+(0.0303)Thr+(-0.0172)Arg+(-0.3588)Met+(-0.0089)Lys+(0.1015)Phe;0.733,0.774,0.755,0.762,0.771,0.734,0.717,0.746,(0.6254)+(-0.0127)Arg+(0.0063)Pro+(-0.3163)Met+(0.0134)Orn+(0.0811)Phe;0.733,0.772,0.711,0.728,0.710,0.784,0.614,0.709,(-0.1411)+(0.0388)Ser+(0.0006)Gln+(0.0104)Pro+(-0.2858)Met+(-0.0043)Lys;0.733,0.773,0.708,0.716,0.712,0.748,0.650,0.707,(-0.9956)+(0.0468)Ser+(-0.1728)Asn+(-0.0214)Arg+(0.0017)Pro+(0.0542)Phe;0.733,0.768,0.766,0.784,0.706,0.794,0.823,0.777,(2.4387)+(-0.0851)Asn+(-0.0091)Ala+(-0.0508)Tyr+(0.0404)Ile+(0.0547)Phe;0.733,0.768,0.759,0.779,0.777,0.747,0.679,0.745,(-1.4796)+(0.0042)Gly+(0.0060)Gln+(-0.0858)Cit+(-0.3310)Met+(0.1029)Phe;0.733,0.768,0.761,0.763,0.790,0.826,0.652,0.758,(4.0358)+(0.0011)Gly+(-0.0959)Cit+(-0.0092)Val+(-0.1739)Met+(0.0543)Orn;0.733,0.773,0.708,0.728,0.717,0.813,0.562,0.705,(1.8385)+(0.0183)Ser+(-0.1053)Cit+(-0.0494)Tyr+(-0.0098)Val+(0.0505)Orn;0.733,0.763,0.75

9,0.771,0.773,0.738,0.715,0.749,(0.6652)+(-0.0465)Asn+(0.0028)Gly+(-0.2735)Met+(0.0131)Orn+(0.0829)Phe;0.733,0.769,0.736,0.749,0.732,0.810,0.660,0.738,(3.2102)+(0.0390)Ser+(-0.1446)Asn+(-0.0599)Cit+(0.0093)Pro+(-0.0118)Val;0.733,0.772,0.743,0.755,0.699,0.835,0.736,0.756,(1.6992)+(0.0381)Ser+(-0.1399)Asn+(-0.0089)Ala+(0.0118)Pro+(-0.0028)Leu;0.733,0.765,0.728,0.724,0.743,0.754,0.688,0.727,(2.3284)+(-0.0232)Asn+(0.0234)Thr+(-0.0161)Arg+(-0.3092)Met+(0.0512)Ile;0.733,0.768,0.776,0.783,0.742,0.841,0.781,0.787,(2.3762)+(0.0474)Ser+(-0.1190)Asn+(-0.0066)Gly+(-0.0049)Ala+(-0.0070)Lys;0.733,0.768,0.743,0.727,0.710,0.827,0.794,0.764,(0.5888)+(0.0044)Gly+(-0.0152)Ala+(-0.1050)Cit+(0.0575)Ile+(0.0258)Phe;0.733,0.776,0.734,0.745,0.779,0.730,0.613,0.717,(0.7351)+(0.0321)Thr+(-0.0745)Cit+(-0.0082)Arg+(-0.3801)Met+(0.1021)Phe;0.733,0.765,0.721,0.740,0.741,0.697,0.650,0.707,(-0.6543)+(0.0012)Gly+(0.0214)Thr+(-0.3911)Met+(0.0013)Orn+(0.0944)Phe;0.733,0.769,0.766,0.764,0.795,0.833,0.665,0.764,(4.4795)+(-0.0968)Cit+(-0.0082)Val+(-0.1541)Met+(0.0580)Orn+(-0.0058)Lys;0.733,0.766,0.756,0.754,0.782,0.742,0.718,0.749,(1.7155)+(-0.0618)Cit+(0.0072)Pro+(-0.2813)Met+(-0.0064)Lys+(0.0924)Phe;0.733,0.769,0.749,0.762,0.779,0.749,0.655,0.736,(1.2150)+(-0.0440)Asn+(0.0065)Gly+(-0.0754)Cit+(-0.2476)Met+(0.1003)Phe;0.733,0.769,0.779,0.799,0.775,0.771,0.742,0.772,(0.7066)+(0.0029)Gly+(-0.0051)Ala+(-0.0095)Arg+(-0.2575)Met+(0.0959)Phe;0.733,0.768,0.791,0.805,0.789,0.783,0.763,0.785,(2.1176)+(-0.0039)Ala+(-0.0580)Cit+(-0.0093)Val+(-0.2248)Met+(0.1112)Phe;0.733,0.766,0.780,0.781,0.738,0.847,0.814,0.795,(5.1807)+(-0.1273)Asn+(-0.0047)Ala+(-0.0437)Val+(0.0413)Orn+(0.0608)Leu;0.733,0.777,0.748,0.741,0.797,0.823,0.610,0.743,(4.0759)+(0.0175)Thr+(-0.1037)Cit+(-0.2177)Met+(0.0473)Orn+(-0.0111)Lys;0.733,0.770,0.717,0.730,0.735,0.689,0.666,0.705,(-0.5635)+(0.0211)Thr+(0.0060)Pro+(-0.4068)Met+(-0.0010)Orn+(0.0928)Phe;0.733,0.767,0.722,0.743,0.75

3,0.718,0.608,0.705,(-0.0837)+(0.0017)Gly+(0.0281)Thr+(-0.0213)Arg+(-0.3823)Met+(0.0994)Phe;0.733,0.773,0.641,0.647,0.606,0.732,0.634,0.655,(-1.8692)+(0.0343)Ser+(-0.0690)Tyr+(-0.0281)Lys+(0.0443)Ile+(0.0558)Phe;0.733,0.768,0.748,0.771,0.741,0.703,0.734,0.737,(1.4812)+(-0.0381)Asn+(0.0080)Pro+(-0.0358)Tyr+(-0.2427)Met+(0.0926)Phe;0.733,0.769,0.791,0.808,0.763,0.802,0.798,0.792,(3.1838)+(-0.1275)Asn+(-0.0053)Ala+(-0.0196)Val+(0.0337)Orn+(0.0765)Phe;0.733,0.768,0.782,0.802,0.769,0.768,0.767,0.777,(1.4223)+(-0.0044)Ala+(-0.0206)Tyr+(-0.2208)Met+(-0.0051)Lys+(0.0992)Phe;0.733,0.765,0.705,0.687,0.695,0.801,0.707,0.722,(1.3197)+(-0.0002)Gln+(-0.1079)Cit+(0.0310)Orn+(0.1495)Ile+(-0.0906)Leu;0.733,0.771,0.750,0.766,0.758,0.720,0.714,0.739,(0.2683)+(0.0078)Pro+(-0.3190)Met+(0.0137)Orn+(-0.0146)Leu+(0.0940)Phe;0.733,0.764,0.747,0.730,0.716,0.829,0.796,0.768,(1.5107)+(0.0041)Gly+(-0.0003)Thr+(-0.0144)Ala+(-0.1015)Cit+(0.0627)Ile;0.733,0.772,0.711,0.704,0.659,0.823,0.757,0.736,(-1.5421)+(0.0298)Ser+(-0.0127)Ala+(-0.0292)Arg+(0.0028)Orn+(0.0517)Ile;0.733,0.765,0.748,0.734,0.719,0.830,0.791,0.768,(1.5842)+(0.0042)Gly+(-0.0142)Ala+(-0.0991)Cit+(-0.0028)Arg+(0.0625)Ile;0.733,0.763,0.744,0.757,0.707,0.805,0.744,0.753,(1.2807)+(0.0031)Gln+(-0.0365)Arg+(-0.0058)Pro+(0.1714)Ile+(-0.0980)Leu;0.733,0.770,0.777,0.815,0.751,0.838,0.685,0.772,(2.0403)+(0.0351)Ser+(-0.1476)Asn+(0.0041)Gln+(-0.0157)Arg+(-0.0110)Val;0.733,0.770,0.737,0.752,0.747,0.801,0.633,0.733,(2.3462)+(0.0396)Ser+(-0.1361)Asn+(-0.0660)Cit+(-0.0045)Arg+(-0.0017)Leu;0.733,0.769,0.744,0.774,0.736,0.700,0.713,0.731,(0.8683)+(0.0099)Pro+(-0.0345)Tyr+(-0.2717)Met+(-0.0135)Leu+(0.1070)Phe;0.733,0.766,0.750,0.738,0.788,0.811,0.661,0.750,(4.0314)+(-0.0969)Cit+(0.0056)Pro+(-0.1895)Met+(0.0496)Orn+(-0.0094)Lys;0.733,0.775,0.725,0.743,0.729,0.790,0.625,0.722,(-0.6989)+(0.0385)Ser+(0.0007)Gln+(0.0021)Tyr+(-0.2901)Met+(0.0100)Leu;0.733,0.764,0.783,0.800,0.798,0.817,0.68

2,0.774,(5.4038)+(-0.0549)Asn+(0.0257)Thr+(-0.0047)Ala+(-0.0712)Cit+(-0.1691)Met;0.733,0.775,0.729,0.748,0.734,0.811,0.612,0.726,(0.1400)+(0.0346)Ser+(0.0004)Gln+(-0.2448)Met+(0.0199)Orn+(-0.0065)Lys;0.733,0.767,0.788,0.802,0.783,0.775,0.774,0.783,(1.3975)+(-0.0049)Ala+(-0.0062)Arg+(-0.2406)Met+(-0.0040)Lys+(0.0936)Phe;0.733,0.766,0.763,0.769,0.740,0.790,0.776,0.769,(3.9892)+(0.0109)Pro+(-0.0387)Val+(-0.2631)Met+(0.0022)Lys+(0.0595)Leu;0.733,0.763,0.724,0.717,0.732,0.750,0.708,0.727,(1.7772)+(-0.0357)Asn+(0.0015)Gly+(0.0185)Thr+(-0.3114)Met+(0.0510)Ile;0.733,0.765,0.773,0.776,0.749,0.796,0.796,0.779,(5.4006)+(-0.0614)Asn+(0.0107)Pro+(-0.0406)
Val+(-0.1899)Met+(0.0620)Leu;0.733,0.770,0.775,0.800,0.731,0.847,0.747,0.781,(1.1113)+(0.0364)Ser+(-0.1465)Asn+(0.0025)Gln+(-0.0014)Thr+(-0.0056)Ala;0.733,0.763,0.751,0.737,0.715,0.832,0.802,0.772,(0.9450)+(0.0034)Gly+(0.0016)Gln+(-0.0147)Ala+(-0.1043)Cit+(0.0618)Ile;0.732,0.772,0.779,0.770,0.797,0.839,0.719,0.781,(4.2028)+(-0.0073)Ala+(-0.1095)Cit+(0.0005)Arg+(-0.1383)Met+(0.0554)Orn;0.732,0.771,0.721,0.757,0.719,0.688,0.650,0.704,(-1.3964)+(0.0032)Gln+(0.0238)Thr+(-0.0351)Tyr+(-0.3709)Met+(0.1063)Phe;0.732,0.774,0.751,0.781,0.712,0.824,0.704,0.755,(2.0016)+(0.0379)Ser+(-0.1275)Asn+(-0.0048)Ala+(-0.0220)Tyr+(0.0043)Leu;0.732,0.773,0.765,0.762,0.767,0.789,0.750,0.767,(1.1168)+(0.0060)Gln+(-0.0791)Cit+(-0.0132)Tyr+(-0.2700)Met+(0.0570)Ile;0.732,0.766,0.695,0.684,0.673,0.776,0.709,0.710,(-0.3444)+(0.0026)Gly+(-0.0964)Cit+(0.1596)Ile+(-0.0992)Leu+(0.0468)Phe;0.732,0.764,0.738,0.739,0.714,0.816,0.728,0.749,(1.4246)+(0.0032)Gln+(-0.0681)Cit+(-0.0235)Arg+(0.1625)Ile+(-0.0932)Leu;0.732,0.776,0.728,0.749,0.729,0.809,0.610,0.724,(-0.1409)+(0.0350)Ser+(0.0001)Gln+(-0.0010)Tyr+(-0.2671)Met+(0.0164)Orn;0.732,0.777,0.729,0.749,0.740,0.795,0.607,0.723,(-0.0519)+(0.0401)Ser+(-0.0118)Arg+(0.0031)Tyr+(-0.2671)Met+(0.0098)Leu;0.732,0.765,0.

700,0.682,0.692,0.800,0.691,0.716,(1.0421)+(0.0012)Gly+(-0.1099)Cit+(0.0301)Orn+(0.1502)Ile+(-0.0906)Leu;0.732,0.766,0.737,0.736,0.710,0.813,0.742,0.750,(2.7630)+(-0.0668)Cit+(-0.0165)Arg+(-0.0052)Pro+(0.1683)Ile+(-0.0916)Leu;0.732,0.773,0.778,0.803,0.738,0.851,0.741,0.783,(1.3654)+(0.0363)Ser+(-0.1358)Asn+(0.0028)Gln+(-0.0051)Ala+(-0.0066)Lys;0.732,0.772,0.670,0.632,0.723,0.801,0.571,0.681,(-1.0444)+(0.0333)Ser+(-0.1234)Cit+(0.0476)Orn+(-0.0337)Lys+(0.0526)Phe;0.732,0.768,0.800,0.800,0.745,0.857,0.874,0.819,(2.1605)+(-0.0868)Asn+(0.0045)Gln+(-0.0098)Ala+(-0.0144)Lys+(0.0519)Ile;0.732,0.770,0.710,0.694,0.753,0.839,0.574,0.715,(1.5790)+(0.0252)Ser+(-0.1117)Cit+(-0.0072)Val+(0.0550)Orn+(-0.0226)Lys;0.732,0.766,0.792,0.805,0.785,0.774,0.784,0.787,(1.7548)+(-0.0320)Asn+(-0.0050)Ala+(-0.0060)Arg+(-0.2187)Met+(0.0901)Phe;0.732,0.776,0.706,0.679,0.753,0.827,0.590,0.712,(0.8866)+(0.0323)Ser+(-0.0115)Thr+(-0.1151)Cit+(0.0544)Orn+(-0.0233)Lys;0.732,0.770,0.767,0.788,0.749,0.762,0.754,0.763,(0.7860)+(-0.0053)Ala+(-0.0247)Tyr+(-0.2350)Met+(0.0187)Orn+(0.0913)Phe;0.732,0.776,0.727,0.744,0.738,0.795,0.610,0.722,(0.1173)+(0.0403)Ser+(-0.0096)Arg+(-0.2509)Met+(-0.0045)Lys+(0.0121)Leu;0.732,0.771,0.688,0.664,0.676,0.734,0.740,0.704,(-1.3402)+(0.0507)Ser+(-0.1907)Asn+(-0.0044)Gly+(0.0182)Ile+(0.0343)Phe;0.732,0.775,0.771,0.793,0.757,0.824,0.706,0.770,(1.5659)+(0.0462)Ser+(-0.0075)Gly+(-0.0119)Arg+(-0.0039)Val+(-0.2103)Met;0.732,0.774,0.713,0.676,0.756,0.825,0.638,0.724,(1.2222)+(0.0355)Ser+(-0.0058)Gly+(-0.1104)Cit+(0.0506)Orn+(-0.0274)Lys;0.732,0.769,0.762,0.780,0.772,0.722,0.720,0.749,(0.9593)+(-0.0104)Arg+(0.0086)Pro+(-0.2996)Met+(-0.0131)Leu+(0.0977)Phe;0.732,0.767,0.785,0.797,0.745,0.833,0.805,0.795,(3.9134)+(-0.1659)Asn+(0.0044)Gln+(-0.0469)Val+(0.0358)Orn+(0.0591)Leu;0.732,0.766,0.787,0.790,0.778,0.819,0.777,0.791,(3.3747)+(-0.1146)Asn+(0.0157)Thr+(-0.0097)Ala+(-0.0818)Cit+(0.0630)Phe;0.732,0.772,0.734,0.746,0

.746,0.797,0.634,0.731,(2.2260)+(0.0398)Ser+(-0.1379)Asn+(0.0003)Thr+(-0.0668)Cit+(-0.0046)Arg;0.732,0.766,0.788,0.818,0.787,0.753,0.733,0.773,(-0.9612)+(0.0059)Gln+(-0.0165)Arg+(-0.3074)Met+(-0.0095)Leu+(0.0982)Phe;0.732,0.764,0.779,0.799,0.786,0.751,0.728,0.766,(-0.9738)+(0.0067)Gln+(-0.0778)Cit+(-0.3100)Met+(-0.0066)Leu+(0.1015)Phe;0.732,0.761,0.792,0.809,0.782,0.767,0.785,0.786,(1.7396)+(-0.0394)Asn+(-0.0045)Ala+(-0.2148)Met+(-0.0065)Leu+(0.0951)Phe;0.732,0.766,0.768,0.766,0.759,0.777,0.784,0.772,(0.7895)+(-0.0441)Asn+(0.0052)Gln+(0.0015)Pro+(-0.2769)Met+(0.0467)Ile;0.732,0.773,0.722,0.736,0.719,0.756,0.664,0.719,(-1.4517)+(0.0449)Ser+(-0.1817)Asn+(0.0023)Gln+(-0.0224)Arg+(0.0544)Phe;0.732,0.765,0.756,0.745,0.755,0.780,0.771,0.763,(2.8785)+(-0.0083)Asn+(-0.0037)Arg+(-0.2389)Met+(-0.0088)Lys+(0.0570)Ile;0.732,0.764,0.763,0.764,0.755,0.777,0.770,0.767,(0.6837)+(-0.0461)Asn+(0.0014)Gly+(0.0050)Gln+(-0.2738)Met+(0.0492)Ile;0.732,0.762,0.727,0.718,0.734,0.748,0.719,0.730,(1.9429)+(-0.0332)Asn+(0.0190)Thr+(0.0012)Pro+(-0.3139)Met+(0.0489)Ile;0.732,0.771,0.772,0.812,0.739,0.832,0.696,0.770,(2.1902)+(0.0336)Ser+(-0.1510)Asn+(0.0035)Gln+(-0.0191)Tyr+(-0.0093)Val;0.732,0.765,0.773,0.780,0.736,0.838,0.786,0.785,(2.0338)+(0.0459)Ser+(-0.1346)Asn+(-0.0061)Gly+(0.0001)Thr+(-0.0056)Ala;0.731,0.771,0.726,0.723,0.734,0.779,0.682,0.729,(1.9114)+(0.0444)Ser+(-0.1468)Asn+(-0.0033)Gly+(-0.0679)Cit+(0.0040)Pro;0.731,0.769,0.712,0.704,0.696,0.740,0.745,0.721,(-1.0528)+(0.0533)Ser+(-0.1762)Asn+(-0.0047)Gly+(-0.0077)Thr+(0.0485)Phe;0.731,0.769,0.749,0.759,0.734,0.804,0.711,0.752,(2.0031)+(-0.0102)Ala+(-0.1165)Cit+(-0.0542)Tyr+(0.0518)Orn+(0.0638)Phe;0.731,0.771,0.754,0.728,0.796,0.802,0.702,0.757,(3.4001)+(-0.0904)Asn+(-0.1064)Cit+(0.0523)Orn+(-0.0181)Lys+(0.0433)Phe;0.731,0.768,0.758,0.762,0.735,0.760,0.797,0.763,(3.7685)+(-0.1911)Asn+(0.0210)Thr+(-0.0481)Val+(0.0549)Leu+(0.0693)Phe;0.731,0.766,0.728,0.745,0.757,0.721,

0.628,0.712,(0.1533)+(0.0275)Thr+(-0.0216)Arg+(-0.3761)Met+(0.0061)Orn+(0.0948)Phe;0.731,0.765,0.723,0.739,0.694,0.763,0.712,0.727,(2.0961)+(0.0485)Ser+(-0.1320)Asn+(-0.0075)Gly+(0.0072)Pro+(-0.0466)Tyr;0.731,0.767,0.689,0.730,0.668,0.730,0.598,0.681,(-0.8975)+(0.0275)Ser+(-0.0767)Cit+(-0.0710)Tyr+(-0.0118)Val+(0.0924)Phe;0.731,0.771,0.757,0.773,0.756,0.724,0.739,0.748,(-1.3483)+(0.0040)Gln+(0.0063)Pro+(-0.3633)Met+(0.0035)Orn+(0.0850)Phe;0.731,0.776,0.680,0.654,0.673,0.789,0.687,0.701,(-0.2105)+(0.0447)Ser+(-0.1375)Asn+(0.0116)Orn+(-0.0198)Lys+(0.0416)Ile;0.731,0.775,0.697,0.707,0.698,0.693,0.674,0.693,(-0.6422)+(0.0252)Thr+(-0.0371)Tyr+(-0.3842)Met+(0.0422)Ile+(0.0860)Phe;0.731,0.764,0.768,0.778,0.783,0.742,0.729,0.758,(1.3127)+(-0.0347)Asn+(-0.0106)Arg+(-0.2595)Met+(0.0179)Orn+(0.0788)Phe;0.731,0.773,0.725,0.741,0.727,0.795,0.630,0.723,(-0.4621)+(0.0386)Ser+(0.0011)Gln+(-0.2661)Met+(-0.0070)Lys+(0.0133)Leu;0.731,0.769,0.755,0.736,0.772,0.776,0.758,0.760,(3.2143)+(-0.0182)Asn+(-0.0706)Cit+(0.0054)Arg+(-0.2389)Met+(0.0539)Ile;0.731,0.761,0.737,0.732,0.712,0.823,0.739,0.752,(0.8866)+(0.0321)Ser+(-0.0124)Thr+(-0.0123)Ala+(-0.0864)Cit+(0.0146)Pro;0.731,0.765,0.763,0.780,0.777,0.746,0.703,0.752,(0.6853)+(0.0028)Gly+(-0.0077)Arg+(-0.2850)Met+(-0.0054)Lys+(0.0941)Phe;0.731,0.765,0.765,0.771,0.744,0.793,0.773,0.770,(4.2201)+(-0.0029)Arg+(0.0108)Pro+(-0.0375)Val+(-0.2504)Met+(0.0585)Leu;0.731,0.766,0.750,0.726,0.714,0.820,0.834,0.774,(1.4840)+(-0.0162)Ala+(-0.0980)Cit+(0.0072)Pro+(0.0504)Ile+(0.0192)Phe;0.731,0.773,0.758,0.774,0.723,0.844,0.728,0.767,(1.7338)+(0.0395)Ser+(-0.1227)Asn+(-0.0055)Ala+(-0.0076)Lys+(0.0059)Leu;0.731,0.768,0.790,0.791,0.811,0.826,0.714,0.786,(2.6626)+(-0.0780)Asn+(0.0065)Gln+(-0.1015)Cit+(-0.1655)Met+(0.0419)Orn;0.731,0.778,0.686,0.662,0.672,0.787,0.704,0.706,(-0.2821)+(0.0468)Ser+(-0.1284)Asn+(-0.0050)Thr+(-0.0176)Lys+(0.0457)Ile;0.731,0.772,0.677,0.676,0.653,0.745,0.678,0.688,(

0.0023)+(0.0353)Ser+(-0.0067)Gly+(-0.0754)Cit+(-0.0701)Tyr+(0.0415)Ile;0.731,0.760,0.770,0.792,0.776,0.739,0.718,0.756,(1.0529)+(-0.0477)Asn+(0.0032)Gly+(-0.2499)Met+(-0.0102)Leu+(0.0982)Phe;0.731,0.764,0.776,0.767,0.728,0.833,0.860,0.797,(3.4095)+(-0.0670)Asn+(-0.0113)Ala+(0.0065)Pro+(-0.0125)Lys+(0.0482)Ile;0.731,0.768,0.730,0.753,0.728,0.700,0.696,0.719,(0.2296)+(0.0022)Gly+(0.0085)Pro+(-0.0312)Tyr+(-0.3032)Met+(0.0970)Phe;0.731,0.768,0.757,0.759,0.730,0.820,0.764,0.768,(5.0790)+(-0.1695)Asn+(0.0143)Thr+(-0.0504)Val+(0.0358)Orn+(0.0646)Leu;0.731,0.767,0.735,0.727,0.714,0.817,0.743,0.750,(3.0852)+(-0.0698)Cit+(-0.0116)Arg+(-0.0079)Lys+(0.1572)Ile+(-0.0848)Leu;0.731,0.769,0.740,0.727,0.738,0.777,0.749,0.748,(2.2416)+(0.0023)Gly+(0.0019)Pro+(-0.2634)Met+(-0.0101)Lys+(0.0579)Ile;0.731,0.768,0.738,0.729,0.732,0.775,0.748,0.746,(2.6869)+(-0.0163)Tyr+(-0.2249)Met+(0.0160)Orn+(-0.0119)Lys+(0.0553)Ile;0.731,0.767,0.767,0.764,0.762,0.797,0.764,0.772,(4.7608)+(-0.0449)Cit+(0.0106)Pro+(-0.0339)Val+(-0.2369)Met+(0.0544)Leu;0.731,0.766,0.719,0.706,0.715,0.814,0.694,0.732,(2.2537)+(-0.0883)Cit+(-0.0208)Arg+(0.0337)Orn+(0.1536)Ile+(-0.0926)Leu;0.731,0.762,0.726,0.740,0.721,0.797,0.648,0.726,(3.3622)+(-0.0983)Cit+(-0.0488)Tyr+(-0.0270)Val+(0.0566)Orn+(0.0308)Leu;0.731,0.771,0.735,0.738,0.729,0.720,0.751,0.734,(0.2979)+(-0.0283)Tyr+(-0.3027)Met+(0.0038)Orn+(0.0412)Ile+(0.0737)Phe;0.731,0.769,0.785,0.776,0.812,0.839,0.712,0.785,(3.1300)+(-0.1123)Asn+(0.0061)Gln+(-0.1124)Cit+(0.0509)Orn+(-0.0156)Lys;0.731,0.766,0.765,0.768,0.744,0.795,0.780,0.772,(4.0596)+(0.0106)Pro+(0.0033)Tyr+(-0.0385)Val+(-0.2612)Met+(0.0600)Leu;0.731,0.770,0.806,0.840,0.795,0.839,0.714,0.797,(3.2590)+(-0.0968)Asn+(0.0058)Gln+(0.0206)Thr+(-0.0101)Val+(-0.1854)Met;0.731,0.766,0.771,0.795,0.755,0.761,0.748,0.765,(0.6496)+(0.0021)Gly+(-0.0048)Ala+(-0.0190)Tyr+(-0.2457)Met+(0.0993)Phe;0.731,0.761,0.721,0.717,0.736,0.750,0.678,0.720,(1.9324)+(0.0226)

Thr+(-0.0179)Arg+(-0.3313)Met+(0.0009)Orn+(0.0532)Ile;0.731,0.773,0.758,0.796,0.739,0.823,0.651,0.752,(3.0994)+(0.0377)Ser+(-0.1231)Asn+(-0.0115)Arg+(-0.0152)Tyr+(-0.0084)Val;0.731,0.769,0.790,0.815,0.766,0.792,0.773,0.786,(3.5942)+(-0.0768)Asn+(-0.0068)Ala+(-0.0676)Cit+(-0.0429)Tyr+(0.0850)Phe;0.731,0.775,0.728,0.745,0.734,0.811,0.610,0.725,(0.2576)+(0.0351)Ser+(-0.0002)Tyr+(-0.2427)Met+(0.0204)Orn+(-0.0064)Lys;0.731,0.769,0.744,0.767,0.743,0.709,0.714,0.733,(1.0612)+(-0.0093)Arg+(0.0085)Pro+(-0.0325)Tyr+(-0.2751)Met+(0.0944)Phe;0.731,0.768,0.771,0.793,0.739,0.818,0.745,0.774,(3.3685)+(0.0466)Ser+(-0.1285)Asn+(-0.0076)Gly+(-0.0226)Tyr+(-0.0086)Val;0.731,0.767,0.754,0.743,0.766,0.771,0.747,0.757,(3.5950)+(-0.0173)Asn+(-0.0650)Cit+(-0.0143)Tyr+(-0.2081)Met+(0.0546)Ile;0.731,0.775,0.752,0.783,0.755,0.830,0.607,0.744,(1.1674)+(0.0358)Ser+(-0.0127)Arg+(-0.0039)Val+(-0.2178)Met+(0.0015)Lys;0.731,0.776,0.754,0.782,0.758,0.837,0.614,0.747,(1.0440)+(0.0366)Ser+(-0.0122)Arg+(0.0084)Tyr+(-0.0040)Val+(-0.2280)Met;0.731,0.769,0.786,0.797,0.744,0.838,0.807,0.797,(1.3196)+(0.0441)Ser+(-0.1492)Asn+(-0.0065)Gly+(0.0030)Gln+(-0.0058)Ala;0.731,0.767,0.744,0.748,0.747,0.796,0.689,0.745,(2.4238)+(0.0442)Ser+(-0.1387)Asn+(-0.0040)Gly+(-0.0637)Cit+(-0.0029)Leu;0.730,0.775,

0.743,0.761,0.730,0.728,0.734,0.738,(2.9497)+(-0.0868)Asn+(-0.0702)Cit+(-0.0633)Tyr+(0.0296)Ile+(0.0587)Phe;0.730,0.770,0.714,0.758,0.653,0.725,0.717,0.714,(-0.7764)+(0.0374)Ser+(-0.0105)Gly+(-0.0789)Tyr+(-0.0147)Val+(0.0867)Phe;0.730,0.763,0.759,0.762,0.752,0.779,0.747,0.760,(0.5059)+(0.0011)Gly+(0.0049)Gln+(-0.0152)Arg+(-0.2968)Met+(0.0531)Ile;0.730,0.769,0.777,0.785,0.795,0.837,0.677,0.774,(2.9192)+(0.0036)Gln+(-0.0965)Cit+(-0.0089)Val+(-0.1946)Met+(0.0494)Orn;0.730,0.761,0.728,0.725,0.727,0.756,0.718,0.732,(0.2414)+(0.0000)Gly+(0.0030)Gln+(0.0154)Thr+(-0.3595)Met+(0.0528)Ile;0.730,0.771,0.758,0.765,0.753,0.799

,0.723,0.760,(1.1400)+(0.0416)Ser+(-0.1648)Asn+(-0.0041)Gly+(0.0047)Gln+(-0.0732)Cit;0.730,0.767,0.795,0.835,0.755,0.778,0.786,0.788,(3.5358)+(-0.1006)Asn+(-0.0036)Ala+(-0.0439)Tyr+(-0.0141)Val+(0.1010)Phe;0.730,0.767,0.687,0.710,0.665,0.710,0.656,0.685,(-0.9531)+(0.0384)Ser+(-0.0074)Gly+(-0.0777)Cit+(-0.0844)Tyr+(0.0717)Phe;0.730,0.764,0.721,0.717,0.735,0.751,0.680,0.721,(1.9442)+(0.0225)Thr+(-0.0179)Arg+(0.0015)Pro+(-0.3341)Met+(0.0519)Ile;0.730,0.762,0.765,0.782,0.774,0.740,0.716,0.753,(0.5312)+(0.0024)Gly+(-0.2869)Met+(-0.0053)Lys+(-0.0060)Leu+(0.0987)Phe;0.730,0.772,0.702,0.707,0.616,0.806,0.794,0.731,(-1.4087)+(0.0326)Ser+(-0.0140)Thr+(-0.0106)Ala+(-0.0384)Tyr+(0.0594)Ile;0.730,0.764,0.703,0.692,0.693,0.731,0.730,0.711,(-0.9115)+(0.0505)Ser+(-0.1892)Asn+(-0.0048)Gly+(0.0004)Pro+(0.0452)Phe;0.730,0.766,0.694,0.693,0.684,0.731,0.688,0.699,(-1.4361)+(0.0478)Ser+(-0.1800)Asn+(-0.0087)Thr+(0.0016)Pro+(0.0503)Phe;0.730,0.770,0.690,0.659,0.749,0.826,0.549,0.696,(1.2489)+(0.0290)Ser+(-0.0010)Gln+(-0.1161)Cit+(0.0519)Orn+(-0.0264)Lys;0.730,0.761,0.730,0.730,0.727,0.755,0.721,0.733,(0.2388)+(0.0033)Gln+(0.0168)Thr+(-0.3639)Met+(-0.0072)Orn+(0.0554)Ile;0.730,0.761,0.762,0.745,0.723,0.829,0.837,0.784,(0.5983)+(0.0022)Gln+(-0.0152)Ala+(-0.1008)Cit+(0.0547)Ile+(0.0204)Phe;0.730,0.769,0.737,0.749,0.747,0.719,0.697,0.728,(-0.2802)+(0.0025)Gly+(0.0067)Pro+(-0.3463)Met+(0.0071)Orn+(0.0863)Phe;0.730,0.764,0.772,0.790,0.750,0.822,0.729,0.773,(3.2886)+(0.0472)Ser+(-0.1285)Asn+(-0.0069)Gly+(-0.0126)Arg+(-0.0107)Val;0.730,0.765,0.759,0.759,0.785,0.803,0.675,0.755,(4.8677)+(-0.0570)Asn+(-0.0979)Cit+(-0.0249)Tyr+(-0.1044)Met+(0.0527)Orn;0.730,0.764,0.794,0.796,0.740,0.836,0.871,0.811,(0.9832)+(-0.1213)Asn+(0.0038)Gln+(-0.0111)Ala+(0.0365)Ile+(0.0295)Phe;0.730,0.767,0.763,0.766,0.756,0.780,0.758,0.765,(0.6178)+(0.0050)Gln+(-0.0152)Arg+(0.0019)Pro+(-0.2998)Met+(0.0502)Ile;0.730,0.768,0.762,0.767,0.784,0.821,0.656,0.757,

(4.3756)+(-0.0953)Cit+(-0.0141)Tyr+(-0.0089)Val+(-0.1496)Met+(0.0565)Orn;0.730,0.767,0.697,0.675,0.677,0.757,0.753,0.716,(-0.5933)+(0.0521)Ser+(-0.1553)Asn+(-0.0046)Gly+(-0.0096)Thr+(0.0306)Ile;0.730,0.769,0.744,0.748,0.750,0.792,0.683,0.743,(2.2986)+(0.0450)Ser+(-0.1357)Asn+(-0.0039)Gly+(-0.0610)Cit+(-0.0056)Arg;0.730,0.767,0.698,0.706,0.715,0.788,0.579,0.697,(0.7484)+(0.0271)Ser+(-0.0134)Thr+(-0.1075)Cit+(-0.0509)Tyr+(0.0465)Orn;0.730,0.763,0.761,0.764,0.755,0.785,0.751,0.764,(0.5928)+(0.0049)Gln+(-0.0158)Arg+(-0.2949)Met+(0.0049)Orn+(0.0506)Ile;0.730,0.777,0.755,0.786,0.746,0.839,0.632,0.751,(0.2592)+(0.0338)Ser+(0.0013)Gln+(0.0075)Tyr+(-0.0043)Val+(-0.2544)Met;0.730,0.773,0.721,0.757,0.729,0.685,0.636,0.702,(-0.0493)+(0.0259)Thr+(-0.0361)Tyr+(-0.3367)Met+(-0.0096)Leu+(0.1157)Phe;0.730,0.769,0.696,0.670,0.754,0.825,0.552,0.700,(1.0297)+(0.0284)Ser+(-0.1126)Cit+(-0.0051)Arg+(0.0504)Orn+(-0.0257)Lys;0.730,0.767,0.623,0.594,0.592,0.736,0.681,0.651,(-1.8298)+(0.0251)Ser+(-0.0052)Gln+(0.1456)Ile+(-0.0948)Leu+(0.0398)Phe;0.730,0.766,0.753,0.786,0.743,0.822,0.638,0.747,(3.0858)+(0.0363)Ser+(-0.1379)Asn+(0.0058)Thr+(-0.0145)Arg+(-0.0110)Val;0.730,0.765,0.786,0.830,0.756,0.754,0.758,0.774,(3.6483)+(-0.1008)Asn+(-0.0064)Arg+(-0.0484)Tyr+(-0.0159)Val+(0.1001)Phe;0.730,0.761,0.728,0.720,0.736,0.748,0.719,0.731,(1.9505)+(-0.0331)Asn+(0.0194)Thr+(-0.3124)Met+(-0.0006)Orn+(0.0504)Ile;0.730,0.761,0.772,0.799,0.771,0.732,0.731,0.758,(-1.2778)+(0.0011)Gly+(0.0044)Gln+(-0.3277)Met+(-0.0092)Leu+(0.0975)Phe;0.730,0.768,0.740,0.742,0.744,0.790,0.690,0.741,(2.1974)+(0.0447)Ser+(-0.1395)Asn+(-0.0037)Gly+(-0.0010)Thr+(-0.0648)Cit;0.730,0.767,0.737,0.762,0.764,0.721,0.626,0.718,(0.3727)+(0.0289)Thr+(-0.0211)Arg+(-0.3625)Met+(-0.0099)Leu+(0.1065)Phe;0.730,0.769,0.753,0.775,0.734,0.791,0.709,0.752,(2.5588)+(0.0488)Ser+(-0.1164)Asn+(-0.0074)Gly+(-0.0120)Arg+(-0.0336)Tyr;0.730,0.765,0.753,0.770,0.770,0.739,0.683,0.740,(0.3161

)+(0.0024)Gly+(-0.0136)Arg+(-0.3002)Met+(0.0156)Orn+(0.0854)Phe;0.730,0.765,0.684,0.668,0.668,0.757,0.707,0.700,(-0.8725)+(0.0464)Ser+(-0.1581)Asn+(-0.0098)Thr+(-0.0010)Pro+(0.0345)Ile;0.730,0.762,0.752,0.777,0.746,0.721,0.723,0.742,(1.4928)+(-0.0482)Asn+(-0.0350)Tyr+(-0.2117)Met+(0.0186)Orn+(0.0870)Phe;0.730,0.768,0.752,0.738,0.753,0.777,0.766,0.759,(2.7449)+(-0.0045)Arg+(0.0022)Pro+(-0.2525)Met+(-0.0089)Lys+(0.0553)Ile;0.730,0.766,0.742,0.733,0.741,0.778,0.741,0.748,(2.3715)+(0.0025)Gly+(-0.0054)Arg+(-0.2524)Met+(-0.0092)Lys+(0.0598)Ile;0.730,0.764,0.716,0.713,0.732,0.752,0.666,0.716,(1.7575)+(0.0013)Gly+(0.0221)Thr+(-0.0181)Arg+(-0.3329)Met+(0.0545)Ile;0.730,0.759,0.804,0.815,0.779,0.834,0.807,0.809,(3.3759)+(-0.1033)Asn+(0.0065)Gln+(-0.0101)Ala+(-0.0849)Cit+(0.0111)Pro;0.730,0.767,0.663,0.655,0.608,0.755,0.733,0.688,(-2.9235)+(0.0174)Ser+(-0.0087)Pro+(0.1576)Ile+(-0.0980)Leu+(0.0361)Phe;0.730,0.762,0.720,0.710,0.682,0.776,0.785,0.738,(1.7414)+(-0.0119)Thr+(0.0140)Orn+(-0.0115)Lys+(0.1473)Ile+(-0.0844)Leu;0.730,0.765,0.768,0.766,0.759,0.778,0.783,0.772,(0.7735)+(-0.0451)Asn+(0.0052)Gln+(-0.2727)Met+(0.0029)Orn+(0.0472)Ile;0.730,0.763,0.757,0.759,0.780,0.735,0.723,0.749,(1.8606)+(-0.0286)Asn+(-0.0627)Cit+(0.0067)Pro+(-0.2685)Met+(0.0871)Phe;0.730,0.763,0.738,0.745,0.707,0.806,0.737,0.749,(1.5230)+(0.0029)Gln+(-0.0333)Arg+(-0.0060)Lys+(0.1584)Ile+(-0.0917)Leu;0.730,0.763,0.746,0.756,0.778,0.752,0.647,0.733,(0.9024)+(0.0057)Gly+(-0.0743)Cit+(-0.2726)Met+(-0.0059)Lys+(0.1045)Phe;0.729,0.770,0.752,0.796,0.730,0.801,0.644,0.743,(1.3258)+(0.0363)Ser+(-0.1372)Asn+(0.0036)Gln+(-0.0155)Arg+(-0.0299)Tyr;0.729,0.767,0.765,0.779,0.727,0.817,0.771,0.774,(5.4358)+(-0.1280)Asn+(-0.0255)Tyr+(-0.0428)Val+(0.0436)Orn+(0.0565)Leu;0.729,0.764,0.760,0.805,0.723,0.723,0.748,0.749,(3.6508)+(-0.1130)Asn+(0.0088)Pro+(-0.0558)Tyr+(-0.0184)Val+(0.0961)Phe;0.729,0.775,0.679,0.670,0.639,0.758,0.728,0.699,(0.0622)+(0.0446)Ser+

(-0.0094)Gly+(-0.0553)Tyr+(-0.0237)Lys+(0.0520)Ile;0.729,0.769,0.731,0.752,0.726,0.706,0.705,0.722,(0.4529)+(0.0077)Pro+(-0.0352)Tyr+(-0.2909)Met+(0.0121)Orn+(0.0906)Phe;0.729,0.773,0.762,0.797,0.758,0.841,0.622,0.754,(0.6517)+(0.0334)Ser+(0.0023)Gln+(-0.0142)Arg+(-0.0040)Val+(-0.2222)Met;0.729,0.775,0.749,0.775,0.745,0.837,0.624,0.745,(0.6623)+(0.0356)Ser+(0.0079)Tyr+(-0.0037)Val+(-0.2436)Met+(-0.0013)Lys;0.729,0.761,0.772,0.777,0.793,0.750,0.731,0.763,(2.3201)+(-0.0286)Asn+(-0.0614)Cit+(-0.2281)Met+(-0.0048)Lys+(0.0926)Phe;0.729,0.772,0.750,0.782,0.752,0.821,0.613,0.742,(0.0735)+(0.0357)Ser+(0.0020)Gln+(-0.0141)Arg+(0.0047)Tyr+(-0.2489)Met;0.729,0.764,0.777,0.794,0.786,0.752,0.729,0.765,(-1.0374)+(0.0070)Gln+(-0.0760)Cit+(-0.0046)Arg+(-0.3171)Met+(0.0956)Phe;0.729,0.763,0.720,0.719,0.702,0.809,0.694,0.731,(2.1493)+(0.0029)Gly+(-0.0697)Cit+(-0.0195)Arg+(0.1622)Ile+(-0.0911)Leu;0.729,0.765,0.773,0.779,0.736,0.838,0.786,0.785,(2.0071)+(0.0460)Ser+(-0.1346)Asn+(-0.0061)Gly+(-0.0057)Ala+(0.0004)Leu;0.729,0.765,0.783,0.807,0.764,0.760,0.776,0.777,(1.9280)+(-0.0412)Asn+(-0.0046)Ala+(-0.0250)Tyr+(-0.1861)Met+(0.0959)Phe;0.729,0.771,0.750,0.783,0.750,0.820,0.610,0.741,(0.2367)+(0.0352)Ser+(0.0021)Gln+(-0.0136)Arg+(-0.2354)Met+(-0.0012)Lys;0.729,0.763,0.761,0.741,0.728,0.827,0.831,0.782,(1.4781)+(-0.0145)Ala+(-0.0927)Cit+(-0.0031)Arg+(0.0542)Ile+(0.0240)Phe;0.729,0.774,0.723,0.735,0.731,0.794,0.625,0.721,(-0.2677)+(0.0402)Ser+(0.0037)Tyr+(-0.2684)Met+(-0.0067)Lys+(0.0134)Leu;0.729,0.769,0.699,0.696,0.692,0.743,0.693,0.706,(-1.4832)+(0.0477)Ser+(-0.1807)Asn+(-0.0098)Thr+(0.0099)Orn+(0.0483)Phe;0.729,0.762,0.777,0.791,0.785,0.760,0.736,0.768,(1.8447)+(-0.0542)Cit+(-0.0118)Val+(-0.2551)Met+(0.0003)Lys+(0.1125)Phe;0.729,0.773,0.750,0.741,0.789,0.761,0.687,0.744,(1.1420)+(-0.0905)Cit+(-0.0003)Arg+(-0.2798)Met+(0.0364)Orn+(0.0793)Phe;0.729,0.762,0.769,0.791,0.766,0.729,0.745,0.758,(1.9156)+(-0.0370)Asn+(-0.0288)T

yr+(-0.2069)Met+(-0.0049)Lys+(0.0958)Phe;0.729,0.765,0.754,0.752,0.792,0.812,0.637,0.748,(4.0881)+(-0.0593)Asn+(0.0035)Gly+(-0.1018)Cit+(-0.1486)Met+(0.0485)Orn;0.729,0.764,0.766,0.784,0.779,0.746,0.705,0.753,(0.8865)+(-0.0144)Arg+(-0.2725)Met+(0.0221)Orn+(-0.0129)Leu+(0.0924)Phe;0.729,0.762,0.764,0.783,0.778,0.735,0.703,0.750,(0.9550)+(-0.0382)Asn+(0.0035)Gly+(-0.0081)Arg+(-0.2637)Met+(0.0900)Phe;0.729,0.760,0.777,0.789,0.787,0.743,0.750,0.767,(1.6401)+(-0.0294)Asn+(-0.0047)Arg+(-0.2496)Met+(-0.0048)Lys+(0.0884)Phe;0.729,0.767,0.770,0.798,0.768,0.742,0.719,0.757,(-0.8925)+(0.0070)Gln+(-0.0790)Cit+(-0.0276)Tyr+(-0.2839)Met+(0.1047)Phe;0.729,0.766,0.718,0.719,0.691,0.779,0.725,0.729,(0.7636)+(-0.0378)Arg+(0.0099)Orn+(0.1592)Ile+(-0.1036)Leu+(0.0424)Phe;0.729,0.764,0.729,0.733,0.692,0.781,0.756,0.741,(0.9369)+(-0.0046)Thr+(-0.0327)Arg+(0.1622)Ile+(-0.1032)Leu+(0.0460)Phe;0.729,0.774,0.743,0.770,0.750,0.818,0.601,0.735,(0.6236)+(0.0379)Ser+(-0.0119)Arg+(0.0055)Tyr+(-0.2382)Met+(-0.0008)Lys;0.729,0.767,0.788,0.808,0.750,0.833,0.785,0.794,(2.1861)+(0.0438)Ser+(-0.1619)Asn+(-0.0074)Gly+(0.0038)Gln+(-0.0120)Val;0.729,0.769,0.750,0.730,0.769,0.772,0.747,0.754,(2.9004)+(-0.0703)Cit+(0.0037)Arg+(0.0024)Pro+(-0.2633)Met+(0.0529)Ile;0.729,0.764,0.758,0.781,0.760,0.733,0.712,0.746,(0.8559)+(0.0020)Gly+(-0.0236)Tyr+(-0.2569)Met+(-0.0065)Lys+(0.1000)Phe;0.729,0.765,0.785,0.793,0.789,0.780,0.760,0.781,(1.9614)+(-0.0056)Ala+(-0.0668)Cit+(-0.2215)Met+(-0.0018)Leu+(0.0975)Phe;0.729,0.767,0.708,0.691,0.728,0.793,0.650,0.716,(3.6207)+(-0.1100)Cit+(-0.0504)Tyr+(0.0512)Orn+(-0.0226)Lys+(0.0432)Ile;0.729,0.771,0.749,0.786,0.727,0.817,0.648,0.745,(3.1035)+(0.0346)Ser+(-0.1416)Asn+(0.0052)Thr+(-0.0200)Tyr+(-0.0093)Val;0.729,0.769,0.731,0.716,0.754,0.775,0.690,0.734,(2.2181)+(0.0051)Gly+(-0.0803)Cit+(0.0039)Arg+(-0.2706)Met+(0.0598)Ile;0.729,0.765,0.706,0.712,0.690,0.738,0.702,0.710,(-1

.7624)+(0.0465)Ser+(-0.1872)Asn+(0.0017)Gln+(-0.0085)Thr+(0.0506)Phe;0.729,0.759,0.758,0.765,0.758,0.828,0.690,0.760,(3.9641)+(-0.0090)Ala+(-0.1137)Cit+(-0.0044)Arg+(-0.0334)Tyr+(0.0581)Orn;0.729,0.774,0.691,0.669,0.675,0.795,0.706,0.711,(-0.4698)+(0.0440)Ser+(-0.1423)Asn+(0.0015)Gln+(-0.0187)Lys+(0.0435)Ile;0.729,0.767,0.777,0.808,0.733,0.755,0.804,0.775,(3.9544)+(-0.1236)Asn+(-0.0441)Tyr+(-0.0351)Val+(0.0400)Leu+(0.0882)Phe;0.729,0.767,0.654,0.663,0.650,0.750,0.571,0.658,(-0.1988)+(0.0295)Ser+(-0.0710)Cit+(-0.0164)Arg+(-0.0607)Tyr+(0.0448)Ile;0.729,0.762,0.777,0.791,0.785,0.759,0.736,0.768,(1.8128)+(-0.0556)Cit+(0.0016)Arg+(-0.0117)Val+(-0.2562)Met+(0.1124)Phe;0.729,0.769,0.691,0.661,0.749,0.824,0.555,0.697,(0.9342)+(0.0282)Ser+(-0.1172)Cit+(0.0508)Orn+(-0.0273)Lys+(0.0009)Leu;0.729,0.766,0.777,0.811,0.770,0.739,0.729,0.762,(-0.8742)+(0.0058)Gln+(-0.0161)Arg+(-0.0264)Tyr+(-0.2851)Met+(0.0974)Phe;0.729,0.775,0.752,0.784,0.743,0.837,0.630,0.748,(0.4311)+(0.0334)Ser+(0.0014)Gln+(-0.0035)Val+(-0.2362)Met+(-0.0017)Lys;0.729,0.766,0.737,0.738,0.784,0.800,0.591,0.728,(3.2415)+(0.0012)Gly+(0.0157)Thr+(-0.1011)Cit+(-0.2565)Met+(0.0398)Orn;0.729,0.763,0.762,0.773,0.757,0.835,0.691,0.764,(4.1555)+(-0.0078)Ala+(-0.1127)Cit+(-0.0309)Tyr+(-0.0065)Val+(0.0617)Orn;0.728,0.768,0.747,0.733,0.760,0.769,0.738,0.750,(3.2617)+(-0.0659)Cit+(0.0032)Pro+(-0.0155)Tyr+(-0.2342)Met+(0.0528)Ile;0.728,0.766,0.767,0.776,0.781,0.808,0.682,0.762,(4.0503)+(0.0250)Thr+(-0.0061)Ala+(-0.0794)Cit+(-0.2372)Met+(0.0127)Leu;0.728,0.764,0.698,0.691,0.647,0.760,0.780,0.719,(-0.3682)+(-0.0014)Gln+(-0.0077)Pro+(0.1582)Ile+(-0.0986)Leu+(0.0366)Phe;0.728,0.764,0.754,0.775,0.763,0.735,0.698,0.743,(0.0520)+(0.0017)Gly+(-0.3019)Met+(0.0157)Orn+(-0.0114)Leu+(0.0943)Phe;0.728,0.757,0.713,0.705,0.719,0.743,0.701,0.717,(1.1788)+(0.0009)Gly+(0.0168)Thr+(0.0012)Pro+(-0.3485)Met+(0.0526)Ile;0.728,0.759,0.799,0.804,0.752,0.842,0.855,0.813,(1.7229)+(-0.09

84)Asn+(0.0049)Gln+(-0.0101)Ala+(-0.0155)Arg+(0.0440)Ile;0.728,0.768,0.766,0.767,0.793,0.826,0.663,0.762,(4.2836)+(-0.0921)Cit+(-0.0032)Arg+(-0.0095)Val+(-0.1672)Met+(0.0552)Orn;0.728,0.766,0.728,0.761,0.700,0.795,0.650,0.727,(3.0828)+(0.0370)Ser+(-0.1415)Asn+(0.0110)Pro+(-0.0271)Tyr+(-0.0125)Val;0.728,0.762,0.756,0.736,0.723,0.824,0.829,0.778,(1.3510)+(0.0014)Thr+(-0.0149)Ala+(-0.0967)Cit+(0.0545)Ile+(0.0224)Phe;0.728,0.760,0.728,0.730,0.705,0.794,0.724,0.738,(2.1833)+(-0.0349)Arg+(-0.0060)Pro+(0.0180)Orn+(0.1680)Ile+(-0.0981)Leu;0.728,0.776,0.685,0.662,0.671,0.791,0.698,0.705,(-0.1367)+(0.0451)Ser+(-0.1336)Asn+(-0.0013)Pro+(-0.0185)Lys+(0.0463)Ile;0.728,0.763,0.774,0.766,0.727,0.820,0.861,0.794,(2.1094)+(-0.1009)Asn+(-0.0125)Ala+(0.0064)Pro+(0.0336)Ile+(0.0288)Phe;0.728,0.763,0.694,0.672,0.677,0.759,0.739,0.712,(-0.3318)+(0.0488)Ser+(-0.1704)Asn+(-0.0048)Gly+(-0.0018)Pro+(0.0295)Ile;0.728,0.770,0.650,0.672,0.658,0.717,0.530,0.644,(-1.3557)+(0.0253)Ser+(-0.1122)Cit+(-0.0851)Tyr+(0.0345)Orn+(0.0639)Phe;0.728,0.769,0.731,0.721,0.752,0.773,0.685,0.733,(2.4893)+(0.0049)Gly+(-0.0759)Cit+(-0.0081)Tyr+(-0.2504)Met+(0.0600)Ile;0.728,0.764,0.757,0.789,0.742,0.825,0.658,0.753,(2.8892)+(0.0381)Ser+(-0.1315)Asn+(-0.0127)Arg+(-0.0102)Val+(0.0003)Lys;0.728,0.759,0.767,0.755,0.729,0.834,0.832,0.787,(1.1944)+(0.0028)Gln+(-0.0143)Ala+(-0.0951)Cit+(-0.0054)Arg+(0.0585)Ile;0.728,0.762,0.757,0.737,0.795,0.819,0.685,0.759,(4.6497)+(-0.0833)Asn+(-0.1061)Cit+(0.0006)Pro+(0.0555)Orn+(-0.0143)Lys;0.728,0.768,0.763,0.787,0.727,0.794,0.754,0.766,(1.5303)+(0.0459)Ser+(-0.1456)Asn+(-0.0080)Gly+(0.0035)Gln+(-0.0386)Tyr;0.728,0.767,0.675,0.656,0.671,0.736,0.690,0.688,(-1.6727)+(0.0453)Ser+(-0.1956)Asn+(0.0008)Orn+(0.0197)Ile+(0.0361)Phe;0.728,0.759,0.755,0.753,0.749,0.818,0.729,0.762,(1.6130)+(-0.0106)Ala+(-0.1148)Cit+(-0.0123)Val+(0.0546)Orn+(0.0549)Phe;0.728,0.763,0.785,0.781,0.746,0.826,0.850,0.801,(2.2630)+(-0.0851)Asn+(-0.0

109)Ala+(-0.0119)Arg+(0.0393)Ile+(0.0321)Phe;0.728,0.761,0.728,0.724,0.726,0.756,0.717,0.731,(0.2513)+(0.0029)Gln+(0.0152)Thr+(0.0009)Pro+(-0.3608)Met+(0.0518)Ile;0.728,0.762,0.711,0.703,0.686,0.797,0.719,0.726,(1.0750)+(0.0015)Gly+(0.0008)Gln+(-0.0900)Cit+(0.1575)Ile+(-0.0901)Leu;0.728,0.762,0.790,0.792,0.785,0.825,0.772,0.794,(5.3576)+(-0.0279)Asn+(-0.0085)Ala+(-0.0673)Cit+(0.0148)Pro+(-0.1279)Met;0.728,0.760,0.755,0.784,0.753,0.719,0.710,0.742,(1.2292)+(-0.0470)Asn+(0.0028)Gly+(-0.0279)Tyr+(-0.2248)Met+(0.0961)Phe;0.728,0.772,0.699,0.723,0.658,0.731,0.700,0.703,(-0.8428)+(0.0463)Ser+(-0.0103)Gly+(-0.0730)Tyr+(-0.0210)Lys+(0.0788)Phe;0.728,0.766,0.677,0.690,0.585,0.794,0.751,0.705,(-0.9809)+(0.0244)Ser+(-0.0125)Ala+(0.0076)Pro+(-0.0524)Tyr+(0.0489)Ile;0.728,0.773,0.720,0.758,0.660,0.803,0.688,0.727,(-1.0317)+(0.0309)Ser+(-0.0068)Ala+(-0.0527)Tyr+(-0.0178)Lys+(0.0804)Phe;0.728,0.763,0.772,0.795,0.773,0.747,0.723,0.760,(2.0496)+(-0.0536)Cit+(-0.0209)Tyr+(-0.0111)Val+(-0.2261)Met+(0.1179)Phe;0.728,0.765,0.759,0.738,0.795,0.822,0.692,0.762,(4.6422)+(-0.0861)Asn+(-0.1109)Cit+(0.0057)Arg+(0.0564)Orn+(-0.0154)Lys;0.728,0.763,0.777,0.775,0.723,0.844,0.848,0.797,(3.0575)+(-0.0696)Asn+(0.0023)Gly+(-0.0098)Ala+(-0.0129)Lys+(0.0552)Ile;0.728,0.762,0.763,0.779,0.736,0.819,0.738,0.768,(3.6916)+(-0.0068)Ala+(0.0142)Pro+(-0.0105)Val+(-0.1899)Met+(0.0289)Orn;0.728,0.761,0.774,0.785,0.758,0.829,0.739,0.778,(4.7676)+(-0.0788)Asn+(0.0047)Gly+(-0.0103)Ala+(-0.0815)Cit+(0.0133)Pro;0.728,0.759,0.754,0.761,0.752,0.825,0.688,0.757,(3.7107)+(0.0007)Gly+(-0.0093)Ala+(-0.1185)Cit+(-0.0336)Tyr+(0.0578)Orn;0.728,0.770,0.690,0.660,0.748,0.824,0.554,0.696,(0.9290)+(0.0281)Ser+(-0.1168)Cit+(0.0007)Pro+(0.0505)Orn+(-0.0272)Lys;0.728,0.767,0.752,0.734,0.795,0.819,0.659,0.752,(4.7231)+(-0.0960)Asn+(0.0093)Thr+(-0.1091)Cit+(0.0533)Orn+(-0.0160)Lys;0.728,0.762,0.757,0.745,0.793,0.806,0.681,0.756,(4.2153)+(-0.0472)Asn+(-0.0943)Cit+(0.0

050)Pro+(-0.1753)Met+(0.0451)Orn;0.728,0.760,0.755,0.776,0.786,0.792,0.607,0.740,(4.7058)+(-0.0595)Asn+(0.0023)Gly+(0.0243)Thr+(-0.0722)Cit+(-0.2065)Met;0.728,0.767,0.784,0.790,0.786,0.783,0.765,0.781,(1.8206)+(-0.0059)Ala+(-0.0715)Cit+(0.0046)Arg+(-0.2279)Met+(0.0959)Phe;0.728,0.769,0.760,0.780,0.721,0.843,0.730,0.769,(1.6197)+(0.0384)Ser+(-0.1363)Asn+(-0.0006)Thr+(-0.0058)Ala+(0.0019)Leu;0.727,0.770,0.735,0.730,0.778,0.796,0.614,0.729,(3.2568)+(0.0162)Thr+(-0.0984)Cit+(0.0058)Pro+(-0.2772)Met+(0.0363)Orn;0.727,0.762,0.774,0.772,0.723,0.831,0.845,0.793,(1.6036)+(-0.1075)Asn+(0.0029)Gly+(-0.0112)Ala+(0.0397)Ile+(0.0329)Phe;0.727,0.761,0.635,0.665,0.607,0.712,0.556,0.635,(-2.3317)+(0.0325)Ser+(-0.0327)Arg+(-0.0787)Tyr+(0.0312)Ile+(0.0513)Phe;0.727,0.766,0.695,0.728,0.660,0.718,0.661,0.692,(-1.1597)+(0.0447)Ser+(-0.0097)Gly+(-0.0284)Arg+(-0.0822)Tyr+(0.0708)Phe;0.727,0.764,0.767,0.791,0.769,0.774,0.694,0.757,(3.0240)+(-0.1304)Asn+(0.0057)Gly+(-0.0667)Cit+(-0.0166)Val+(0.0887)Phe;0.727,0.774,0.743,0.771,0.740,0.822,0.621,0.738,(-0.0231)+(0.0355)Ser+(0.0013)Gln+(0.0052)Tyr+(-0.2537)Met+(-0.0035)Lys;0.727,0.761,0.750,0.778,0.746,0.728,0.699,0.738,(0.6171)+(-0.0319)Tyr+(-0.2492)Met+(0.0205)Orn+(-0.0126)Leu+(0.1012)Phe;0.727,0.758,0.764,0.749,0.725,0.833,0.837,0.786,(1.1719)+(0.0025)Gln+(-0.0007)Thr+(-0.0145)Ala+(-0.0991)Cit+(0.0589)Ile;0.727,0.768,0.669,0.703,0.668,0.723,0.544,0.660,(-1.2841)+(0.0321)Ser+(-0.0724)Cit+(-0.0179)Arg+(-0.0746)Tyr+(0.0773)Phe;0.727,0.764,0.789,0.804,0.747,0.823,0.810,0.796,(4.0031)+(-0.1863)Asn+(0.0050)Gln+(0.0165)Thr+(-0.0462)Val+(0.0626)Leu;0.727,0.761,0.743,0.741,0.735,0.764,0.751,0.748,(0.3170)+(0.0009)Gly+(0.0037)Gln+(0.0017)Pro+(-0.3190)Met+(0.0511)Ile;0.727,0.763,0.744,0.763,0.718,0.781,0.719,0.746,(2.3890)+(0.0470)Ser+(-0.1331)Asn+(-0.0075)Gly+(0.0031)Thr+(-0.0383)Tyr;0.727,0.768,0.799,0.810,0.786,0.820,0.783,0.800,(2.6584)+(0.0060)Gln+(-0.0577)Cit+(-0.0319)Val+(-0.243

9)Met+(0.0564)Leu;0.727,0.758,0.716,0.710,0.721,0.743,0.702,0.719,(1.2137)+(0.0010)Gly+(0.0178)Thr+(-0.3480)Met+(-0.0034)Orn+(0.0552)Ile;0.727,0.762,0.651,0.667,0.590,0.685,0.710,0.663,(-2.0852)+(0.0394)Ser+(-0.0107)Gly+(-0.0947)Tyr+(0.0264)Ile+(0.0442)Phe;0.727,0.763,0.737,0.762,0.722,0.812,0.649,0.736,(2.9454)+(0.0393)Ser+(-0.1391)Asn+(-0.0157)Arg+(0.0099)Pro+(-0.0144)Val;0.727,0.758,0.779,0.794,0.785,0.740,0.751,0.768,(1.6356)+(-0.0380)Asn+(-0.2400)Met+(-0.0030)Lys+(-0.0088)Leu+(0.0951)Phe;0.727,0.759,0.771,0.801,0.765,0.724,0.736,0.756,(1.9426)+(-0.0465)Asn+(-0.0308)Tyr+(-0.1925)Met+(-0.0107)Leu+(0.1038)Phe;0.727,0.760,0.730,0.727,0.683,0.787,0.795,0.748,(1.3539)+(0.0015)Gln+(-0.0115)Thr+(-0.0111)Lys+(0.1503)Ile+(-0.0845)Leu;0.727,0.765,0.763,0.783,0.764,0.735,0.728,0.752,(-1.3877)+(0.0011)Gly+(0.0039)Gln+(-0.3433)Met+(0.0067)Orn+(0.0864)Phe;0.727,0.764,0.688,0.685,0.685,0.735,0.669,0.693,(-1.2778)+(0.0443)Ser+(-0.1955)Asn+(0.0002)Pro+(0.0057)Orn+(0.0463)Phe;0.727,0.762,0.788,0.805,0.783,0.768,0.766,0.780,(1.2744)+(-0.0046)Ala+(-0.0086)Arg+(-0.2427)Met+(-0.0053)Leu+(0.0967)Phe;0.727,0.765,0.773,0.796,0.771,0.739,0.737,0.761,(-1.1067)+(0.0040)Gln+(-0.3232)Met+(0.0115)Orn+(-0.0112)Leu+(0.0937)Phe;0.727,0.757,0.717,0.709,0.722,0.739,0.708,0.720,(1.3527)+(0.0180)Thr+(0.0012)Pro+(-0.3484)Met+(-0.0029)Orn+(0.0530)Ile;0.727,0.769,0.739,0.778,0.739,0.731,0.644,0.723,(2.6495)+(-0.1029)Asn+(0.0049)Gly+(-0.0749)Cit+(-0.0550)Tyr+(0.0820)Phe;0.727,0.760,0.742,0.730,0.745,0.757,0.756,0.747,(2.1858)+(-0.0238)Asn+(0.0021)Pro+(-0.2658)Met+(0.0085)Orn+(0.0454)Ile;0.727,0.769,0.693,0.755,0.670,0.746,0.538,0.677,(-1.3541)+(0.0309)Ser+(-0.0303)Arg+(-0.0695)Tyr+(-0.0179)Leu+(0.0904)Phe;0.727,0.756,0.731,0.732,0.674,0.782,0.809,0.749,(0.8475)+(0.0012)Gln+(-0.0151)Thr+(-0.0053)Pro+(0.1634)Ile+(-0.0937)Leu;0.727,0.769,0.721,0.711,0.681,0.785,0.784,0.740,(1.6547)+(-0.0067)Pro+(0.0116)Orn+(-0.0160)Lys+(0.1517)Ile+(-0.0816

)Leu;0.727,0.767,0.691,0.681,0.686,0.771,0.671,0.702,(-0.4644)+(0.046
2)Ser+(-0.1447)Asn+(-0.0060)Thr+(-0.0174)Arg+(0.0346)Ile;0.727,0.764,
0.792,0.815,0.770,0.786,0.781,0.788,(2.0820)+(-0.1616)Asn+(0.0039)Gln
+(-0.0230)Val+(0.0291)Orn+(0.0694)Phe;0.727,0.762,0.748,0.745,0.738,0
.766,0.762,0.753,(0.3789)+(0.0039)Gln+(0.0017)Pro+(-0.3175)Met+(0.000
6)Orn+(0.0503)Ile;0.727,0.768,0.742,0.734,0.733,0.769,0.760,0.749,(2.
8256)+(0.0028)Pro+(-0.0150)Tyr+(-0.2351)Met+(-0.0093)Lys+(0.0560)Ile;
0.727,0.768,0.730,0.768,0.722,0.790,0.600,0.720,(2.2715)+(0.0374)Ser+
(-0.1276)Asn+(0.0051)Thr+(-0.
0145)Arg+(-0.0311)Tyr;0.727,0.764,0.751,0.743,0.793,0.820,0.633,0.747
,(3.9014)+(0.0020)Gly+(-0.1026)Cit+(-0.1686)Met+(0.0529)Orn+(-0.0096)
Lys;0.727,0.760,0.719,0.726,0.709,0.745,0.703,0.721,(0.6095)+(0.0028)
Gln+(0.0171)Thr+(-0.0203)Tyr+(-0.3306)Met+(0.0546)Ile;0.727,0.759,0.7
24,0.720,0.676,0.780,0.797,0.743,(1.1215)+(-0.0159)Thr+(-0.0056)Pro+(
0.0125)Orn+(0.1615)Ile+(-0.0941)Leu;0.727,0.767,0.812,0.828,0.768,0.8
51,0.835,0.821,(2.4844)+(0.0046)Gln+(-0.0033)Ala+(-0.0355)Val+(-0.235
4)Met+(0.0634)Leu;0.727,0.761,0.746,0.755,0.718,0.802,0.739,0.754,(2.
9942)+(0.0467)Ser+(-0.1529)Asn+(-0.0068)Gly+(0.0092)Pro+(-0.0153)Val;
0.727,0.765,0.749,0.756,0.783,0.778,0.638,0.739,(4.5956)+(-0.0507)Asn
+(0.0240)Thr+(-0.0718)Cit+(0.0072)Pro+(-0.2379)Met;0.727,0.761,0.770,
0.807,0.756,0.723,0.732,0.755,(-0.9044)+(0.0047)Gln+(-0.0274)Tyr+(-0.
2852)Met+(-0.0096)Leu+(0.1050)Phe;0.727,0.765,0.779,0.793,0.777,0.771
,0.752,0.773,(2.1055)+(-0.0054)Ala+(-0.0660)Cit+(-0.0187)Tyr+(-0.2006
)Met+(0.1012)Phe;0.727,0.762,0.764,0.775,0.743,0.771,0.776,0.766,(1.1
194)+(-0.0474)Asn+(0.0054)Gln+(-0.0180)Tyr+(-0.2391)Met+(0.0494)Ile;0
.727,0.768,0.710,0.742,0.698,0.770,0.606,0.704,(1.9445)+(0.0401)Ser+(
-0.1245)Asn+(-0.0156)Arg+(0.0079)Pro+(-0.0388)Tyr;0.727,0.762,0.733,0
.728,0.687,0.789,0.799,0.751,(2.0004)+(-0.0086)Thr+(-0.0050)Pro+(-0.0

104)Lys+(0.1581)Ile+(-0.0850)Leu;0.727,0.764,0.784,0.827,0.751,0.744,0.764,0.771,(3.4566)+(-0.1121)Asn+(-0.0506)Tyr+(-0.0170)Val+(0.0023)Lys+(0.1006)Phe;0.727,0.758,0.774,0.796,0.795,0.808,0.645,0.761,(5.6052)+(-0.0648)Asn+(0.0258)Thr+(-0.0614)Cit+(-0.0065)Val+(-0.1793)Met;0.727,0.758,0.756,0.764,0.754,0.825,0.692,0.759,(3.8524)+(-0.0091)Ala+(-0.1172)Cit+(-0.0340)Tyr+(0.0581)Orn+(-0.0009)Leu;0.727,0.767,0.741,0.739,0.785,0.799,0.609,0.733,(3.3439)+(0.0165)Thr+(-0.0995)Cit+(-0.2587)Met+(0.0393)Orn+(0.0008)Leu;0.727,0.764,0.765,0.753,0.801,0.824,0.677,0.764,(4.9473)+(-0.0850)Asn+(-0.1057)Cit+(0.0579)Orn+(-0.0114)Lys+(-0.0075)Leu;0.726,0.767,0.763,0.757,0.799,0.787,0.686,0.757,(3.0997)+(-0.1196)Asn+(-0.1018)Cit+(0.0490)Orn+(-0.0231)Leu+(0.0577)Phe;0.726,0.766,0.738,0.732,0.729,0.771,0.748,0.745,(2.4555)+(0.0020)Gly+(-0.0109)Tyr+(-0.2397)Met+(-0.0099)Lys+(0.0607)Ile;0.726,0.761,0.720,0.719,0.701,0.790,0.715,0.731,(2.3725)+(-0.0316)Arg+(0.0171)Orn+(-0.0064)Lys+(0.1545)Ile+(-0.0912)Leu;0.726,0.762,0.740,0.751,0.758,0.814,0.618,0.735,(4.4015)+(-0.1056)Cit+(-0.0388)Tyr+(-0.0080)Val+(0.0636)Orn+(-0.0124)Lys;0.726,0.767,0.753,0.788,0.729,0.822,0.664,0.751,(2.9152)+(0.0367)Ser+(-0.1332)Asn+(-0.0170)Tyr+(-0.0085)Val+(-0.0008)Lys;0.726,0.763,0.732,0.728,0.708,0.808,0.737,0.745,(2.6940)+(-0.0028)Thr+(-0.0654)Cit+(-0.0162)Arg+(0.1610)Ile+(-0.0910)Leu;0.726,0.759,0.725,0.731,0.699,0.794,0.715,0.735,(1.2981)+(0.0021)Gln+(-0.0383)Arg+(0.0115)Orn+(0.1594)Ile+(-0.0974)Leu;0.726,0.761,0.639,0.639,0.635,0.733,0.580,0.647,(-0.0008)+(0.0290)Ser+(-0.0018)Gln+(-0.0818)Cit+(-0.0646)Tyr+(0.0450)Ile;0.726,0.761,0.748,0.740,0.753,0.768,0.747,0.752,(2.4430)+(-0.0186)Asn+(-0.0096)Arg+(-0.2508)Met+(0.0119)Orn+(0.0469)Ile;0.726,0.761,0.769,0.789,0.754,0.769,0.744,0.764,(2.8332)+(-0.1471)Asn+(0.0020)Gly+(-0.0230)Val+(0.0325)Orn+(0.0739)Phe;0.726,0.761,0.803,0.817,0.787,0.809,0.797,0.802,(3.8848)+(-0.0993)Asn+(-0.0059)Ala+(-0.0612)Cit

+(-0.0122)Val+(0.0853)Phe;0.726,0.766,0.668,0.678,0.695,0.772,0.513,0.664,(1.3871)+(0.0235)Ser+(-0.0020)Gln+(-0.1076)Cit+(-0.0584)Tyr+(0.0440)Orn;0.726,0.760,0.745,0.744,0.735,0.767,0.751,0.749,(0.2930)+(0.0009)Gly+(0.0037)Gln+(-0.3153)Met+(0.0005)Orn+(0.0528)Ile;0.726,0.759,0.731,0.739,0.702,0.789,0.733,0.741,(2.2542)+(0.0008)Gly+(-0.0316)Arg+(-0.0048)Pro+(0.1681)Ile+(-0.0954)Leu;0.726,0.763,0.711,0.686,0.754,0.781,0.634,0.714,(2.5302)+(-0.1264)Asn+(0.0055)Gly+(-0.1105)Cit+(0.0375)Orn+(0.0229)Ile;0.726,0.761,0.735,0.726,0.739,0.756,0.737,0.740,(1.9635)+(-0.0254)Asn+(0.0026)Gly+(0.0023)Pro+(-0.2694)Met+(0.0499)Ile;0.726,0.766,0.702,0.690,0.694,0.736,0.728,0.712,(-0.9472)+(0.0502)Ser+(-0.1910)Asn+(-0.0048)Gly+(0.0063)Orn+(0.0429)Phe;0.726,0.757,0.641,0.638,0.596,0.709,0.692,0.659,(-0.2606)+(0.0411)Ser+(-0.0092)Gly+(-0.0030)Gln+(-0.0750)Tyr+(0.0389)Ile;0.726,0.763,0.755,0.741,0.705,0.821,0.851,0.780,(1.3898)+(-0.0118)Ala+(0.0130)Orn+(-0.0229)Lys+(0.0501)Ile+(0.0212)Phe;0.726,0.759,0.786,0.811,0.789,0.828,0.683,0.778,(2.7985)+(0.0048)Gln+(0.0199)Thr+(-0.0050)Ala+(-0.0799)Cit+(-0.2308)Met;0.726,0.759,0.739,0.750,0.703,0.795,0.749,0.749,(1.2707)+(0.0032)Gln+(-0.0063)Thr+(-0.0333)Arg+(0.1632)Ile+(-0.0967)Leu;0.726,0.765,0.770,0.803,0.741,0.834,0.699,0.769,(1.9351)+(0.0348)Ser+(-0.1553)Asn+(0.0033)Gln+(-0.0105)Val+(-0.0029)Lys;0.726,0.759,0.715,0.714,0.658,0.757,0.803,0.733,(-0.1628)+(0.0003)Gln+(-0.0171)Thr+(0.1561)Ile+(-0.0995)Leu+(0.0360)Phe;0.726,0.765,0.749,0.743,0.741,0.771,0.767,0.756,(3.0519)+(-0.0129)Asn+(-0.0141)Tyr+(-0.2158)Met+(-0.0089)Lys+(0.0576)Ile;0.726,0.762,0.784,0.781,0.765,0.812,0.809,0.792,(3.4538)+(-0.0868)Asn+(-0.0116)Ala+(-0.0772)Cit+(0.0105)Pro+(0.0562)Phe;0.726,0.760,0.759,0.742,0.728,0.828,0.822,0.780,(2.1344)+(0.0029)Thr+(-0.0141)Ala+(-0.0925)Cit+(-0.0031)Arg+(0.0586)Ile;0.726,0.769,0.771,0.795,0.728,0.845,0.744,0.778,(1.1093)+(0.0361)Ser+(-0.1487)Asn+(0.0024)Gln+(-0.0058)Ala+(0

.0008)Leu;0.726,0.765,0.708,0.739,0.718,0.679,0.627,0.691,(-0.2457)+(0.0002)Gly+(0.0258)Thr+(-0.0357)Tyr+(-0.3528)Met+(0.1063)Phe;0.726,0.764,0.715,0.745,0.697,0.776,0.631,0.712,(1.5442)+(0.0381)Ser+(-0.1429)Asn+(-0.0024)Thr+(-0.0372)Tyr+(0.0229)Orn;0.726,0.763,0.748,0.764,0.680,0.797,0.817,0.764,(1.8070)+(-0.0097)Ala+(-0.0488)Tyr+(-0.0178)Lys+(0.0526)Ile+(0.0483)Phe;0.726,0.762,0.768,0.781,0.740,0.824,0.750,0.774,(3.0471)+(0.0468)Ser+(-0.1353)Asn+(-0.0070)Gly+(-0.0101)Val+(-0.0034)Lys;0.726,0.768,0.713,0.747,0.734,0.698,0.594,0.693,(0.4678)+(0.0328)Thr+(-0.0220)Arg+(-0.0380)Tyr+(-0.3380)Met+(0.1104)Phe;0.726,0.764,0.781,0.789,0.736,0.835,0.813,0.793,(5.4323)+(-0.1469)Asn+(0.0199)Thr+(-0.0049)Ala+(-0.0431)Val+(0.0654)Leu;0.726,0.761,0.689,0.664,0.677,0.755,0.735,0.708,(-0.3918)+(0.0485)Ser+(-0.1739)Asn+(-0.0049)Gly+(0.0049)Orn+(0.0252)Ile;0.726,0.763,0.781,0.780,0.776,0.815,0.767,0.785,(4.6781)+(-0.0092)Ala+(-0.0708)Cit+(0.0148)Pro+(-0.1651)Met+(0.0062)Leu;0.726,0.757,0.735,0.726,0.739,0.757,0.734,0.739,(1.9064)+(-0.0281)Asn+(0.0024)Gly+(-0.2630)Met+(0.0073)Orn+(0.0495)Ile;0.726,0.759,0.767,0.760,0.801,0.813,0.681,0.764,(4.6120)+(-0.0543)Asn+(-0.0969)Cit+(-0.1382)Met+(0.0508)Orn+(-0.0048)Leu;0.726,0.765,0.728,0.722,0.682,0.793,0.793,0.748,(1.4698)+(0.0009)Gln+(-0.0063)Pro+(-0.0152)Lys+(0.1536)Ile+(-0.0816)Leu;0.726,0.762,0.802,0.831,0.786,0.830,0.740,0.797,(2.5302)+(-0.0801)Asn+(0.0053)Gln+(0.0189)Thr+(-0.0041)Ala+(-0.1962)Met;0.726,0.764,0.810,0.831,0.794,0.797,0.796,0.805,(1.7954)+(-0.1547)Asn+(0.0074)Gln+(-0.0703)Cit+(-0.0171)Val+(0.0781)Phe;0.726,0.759,0.734,0.744,0.700,0.794,0.732,0.743,(1.2906)+(-0.0003)Gly+(0.0027)Gln+(-0.0366)Arg+(0.1611)Ile+(-0.0964)Leu;0.726,0.764,0.804,0.820,0.767,0.834,0.818,0.810,(2.4136)+(-0.0005)Gly+(0.0047)Gln+(-0.0369)Val+(-0.2569)Met+(0.0625)Leu;0.726,0.761,0.781,0.782,0.723,0.831,0.865,0.800,(1.8186)+(-0.1108)Asn+(0.0034)Gln+(-0.0118)Ala+(0.0058)Pro+(0.0384)Ile;0.

726,0.757,0.721,0.714,0.703,0.826,0.702,0.736,(1.1909)+(0.0274)Ser+(-0.0011)Gln+(-0.0131)Ala+(-0.0910)Cit+(0.0133)Pro;0.726,0.766,0.724,0.739,0.716,0.755,0.677,0.722,(3.6014)+(-0.0878)Asn+(0.0045)Gly+(-0.0770)Cit+(-0.0431)Tyr+(0.0433)Ile;0.726,0.759,0.752,0.760,0.775,0.729,0.702,0.741,(1.4064)+(-0.0620)Cit+(0.0082)Pro+(-0.2881)Met+(-0.0105)Leu+(0.0983)Phe;0.726,0.768,0.738,0.773,0.727,0.797,0.623,0.730,(2.2026)+(0.0394)Ser+(-0.1181)Asn+(-0.0111)Arg+(-0.0254)Tyr+(-0.0034)Lys;0.726,0.764,0.768,0.801,0.736,0.833,0.699,0.767,(1.9811)+(0.0340)Ser+(-0.1632)Asn+(0.0031)Gln+(0.0013)Thr+(-0.0116)Val;0.726,0.758,0.762,0.757,0.704,0.829,0.845,0.784,(2.4833)+(-0.0972)Asn+(0.0024)Gly+(-0.0120)Ala+(0.0067)Pro+(0.0413)Ile;0.725,0.769,0.703,0.688,0.698,0.766,0.708,0.715,(0.0008)+(0.0497)Ser+(-0.1498)Asn+(-0.0045)Gly+(-0.0188)Arg+(0.0301)Ile;0.725,0.764,0.750,0.772,0.754,0.730,0.697,0.738,(0.9778)+(-0.0130)Arg+(-0.0304)Tyr+(-0.2492)Met+(0.0198)Orn+(0.0891)Phe;0.725,0.765,0.710,0.698,0.672,0.776,0.770,0.729,(1.4573)+(0.0000)Gln+(0.0082)Orn+(-0.0162)Lys+(0.1407)Ile+(-0.0800)Leu;0.725,0.761,0.777,0.803,0.762,0.752,0.758,0.769,(1.1259)+(-0.0043)Ala+(-0.0220)Tyr+(-0.2275)Met+(-0.0056)Leu+(0.1024)Phe;0.725,0.758,0.712,0.710,0.657,0.756,0.800,0.731,(-0.1238)+(0.0005)Gly+(-0.0171)Thr+(0.1563)Ile+(-0.0996)Leu+(0.0367)Phe;0.725,0.756,0.732,0.731,0.717,0.828,0.692,0.742,(1.0782)+(0.0279)Ser+(-0.0125)Ala+(-0.0820)Cit+(-0.0118)Arg+(0.0132)Pro;0.725,0.758,0.753,0.761,0.752,0.825,0.686,0.756,(3.7545)+(0.0024)Thr+(-0.0093)Ala+(-0.1181)Cit+(-0.0358)Tyr+(0.0569)Orn;0.725,0.758,0.732,0.735,0.705,0.805,0.727,0.743,(-1.1840)+(0.0321)Ser+(-0.0109)Thr+(-0.0106)Ala+(-0.0892)Cit+(0.0574)Phe;0.725,0.762,0.760,0.793,0.748,0.719,0.727,0.747,(-1.1050)+(0.0006)Gly+(0.0044)Gln+(-0.0263)Tyr+(-0.3035)Met+(0.0964)Phe;0.725,0.763,0.744,0.742,0.736,0.850,0.689,0.754,(1.6108)+(0.0314)Ser+(-0.0084)Ala+(-0.0846)Cit+(-0.0165)Lys+(0.0143)Leu;0.725,0.761,0.

756,0.743,0.795,0.816,0.663,0.754,(4.1176)+(-0.0997)Cit+(-0.1682)Met+(0.0528)Orn+(-0.0102)Lys+(0.0018)Leu;0.725,0.758,0.715,0.744,0.711,0.744,0.624,0.706,(1.5508)+(-0.1004)Cit+(-0.0716)Tyr+(-0.0165)Val+(0.0536)Orn+(0.0818)Phe;0.725,0.759,0.752,0.763,0.687,0.799,0.821,0.768,(3.5693)+(-0.0744)Asn+(-0.0105)Ala+(0.0084)Pro+(-0.0397)Tyr+(0.0448)Ile;0.725,0.758,0.712,0.708,0.659,0.756,0.802,0.731,(-0.0793)+(-0.0177)Thr+(0.0063)Orn+(0.1545)Ile+(-0.0994)Leu+(0.0347)Phe;0.725,0.763,0.766,0.775,0.748,0.818,0.743,0.771,(3.4397)+(-0.0081)Ala+(-0.0121)Arg+(0.0126)Pro+(-0.1898)Met+(0.0248)Orn;0.725,0.767,0.683,0.664,0.669,0.761,0.706,0.700,(-0.9847)+(0.0466)Ser+(-0.1601)Asn+(-0.0114)Thr+(0.0083)Orn+(0.0307)Ile;0.725,0.764,0.757,0.744,0.796,0.818,0.665,0.756,(4.1010)+(-0.1028)Cit+(0.0035)Arg+(-0.1674)Met+(0.0536)Orn+(-0.0105)Lys;0.725,0.768,0.774,0.772,0.804,0.833,0.673,0.770,(2.7049)+(0.0046)Gln+(-0.1033)Cit+(-0.1877)Met+(0.0486)Orn+(-0.0112)Lys;0.725,0.761,0.753,0.750,0.787,0.812,0.650,0.750,(4.4121)+(-0.1006)Cit+(-0.0182)Tyr+(-0.1357)Met+(0.0559)Orn+(-0.0095)Lys;0.725,0.758,0.733,0.740,0.716,0.810,0.694,0.740,(-0.9858)+(0.0298)Ser+(-0.0111)Ala+(-0.0821)Cit+(-0.0146)Arg+(0.0577)Phe;0.725,0.766,0.
678,0.718,0.658,0.752,0.561,0.672,(-1.2757)+(0.0352)Ser+(-0.0215)Arg+(-0.0636)Tyr+(-0.0165)Lys+(0.0791)Phe;0.725,0.764,0.719,0.774,0.645,0.782,0.685,0.721,(-1.1552)+(0.0235)Ser+(-0.0065)Ala+(-0.0583)Tyr+(-0.0121)Val+(0.0871)Phe;0.725,0.766,0.679,0.663,0.671,0.735,0.696,0.691,(-1.8833)+(0.0446)Ser+(-0.2003)Asn+(0.0010)Gln+(0.0194)Ile+(0.0359)Phe;0.725,0.762,0.721,0.713,0.679,0.780,0.790,0.740,(1.5694)+(-0.0017)Gly+(0.0008)Gln+(-0.0151)Lys+(0.1429)Ile+(-0.0807)Leu;0.725,0.761,0.718,0.722,0.715,0.739,0.698,0.719,(2.3998)+(-0.0381)Asn+(0.0213)Thr+(-0.0243)Tyr+(-0.2733)Met+(0.0521)Ile;0.725,0.763,0.767,0.781,0.739,0.824,0.747,0.773,(3.1014)+(0.0450)Ser+(-0.1481)Asn+(-0.0069)Gly+(0.0032)

Thr+(-0.0117)Val;0.725,0.766,0.742,0.741,0.789,0.803,0.599,0.733,(3.5503)+(0.0178)Thr+(-0.0950)Cit+(-0.0068)Arg+(-0.2520)Met+(0.0398)Orn;0.725,0.761,0.767,0.781,0.752,0.806,0.731,0.768,(3.9795)+(-0.0498)Asn+(0.0182)Thr+(-0.0075)Ala+(0.0122)Pro+(-0.2035)Met;0.725,0.760,0.737,0.741,0.706,0.798,0.746,0.748,(2.6422)+(-0.0280)Arg+(-0.0047)Pro+(-0.0044)Lys+(0.1652)Ile+(-0.0916)Leu;0.725,0.757,0.724,0.717,0.682,0.781,0.790,0.742,(1.8727)+(-0.0000)Gly+(-0.0099)Thr+(-0.0103)Lys+(0.1501)Ile+(-0.0843)Leu;0.725,0.761,0.750,0.740,0.753,0.763,0.759,0.754,(2.5387)+(-0.0148)Asn+(-0.0077)Arg+(0.0026)Pro+(-0.2596)Met+(0.0485)Ile;0.725,0.765,0.688,0.702,0.600,0.803,0.754,0.715,(-1.0906)+(0.0247)Ser+(-0.0111)Ala+(-0.0492)Tyr+(0.0010)Orn+(0.0552)Ile;0.725,0.763,0.801,0.820,0.756,0.793,0.847,0.804,(2.3631)+(-0.1753)Asn+(0.0056)Gln+(-0.0422)Val+(0.0474)Leu+(0.0617)Phe;0.725,0.760,0.692,0.721,0.671,0.758,0.613,0.691,(1.4720)+(0.0378)Ser+(-0.1478)Asn+(0.0058)Pro+(-0.0451)Tyr+(0.0188)Orn;0.725,0.759,0.762,0.780,0.752,0.797,0.708,0.759,(4.6860)+(-0.0679)Asn+(0.0096)Pro+(-0.0151)Val+(-0.1479)Met+(0.0340)Orn;0.725,0.758,0.740,0.735,0.743,0.764,0.728,0.742,(2.1794)+(-0.0199)Asn+(0.0029)Gly+(-0.0084)Arg+(-0.2551)Met+(0.0531)Ile;0.725,0.762,0.777,0.799,0.769,0.778,0.737,0.771,(3.4609)+(-0.1262)Asn+(-0.0148)Arg+(-0.0227)Val+(0.0372)Orn+(0.0717)Phe;0.725,0.761,0.779,0.802,0.768,0.763,0.755,0.772,(1.3908)+(-0.0046)Ala+(-0.0081)Arg+(-0.0210)Tyr+(-0.2211)Met+(0.0976)Phe;0.725,0.764,0.721,0.755,0.645,0.767,0.757,0.731,(-1.1283)+(0.0370)Ser+(-0.0090)Gly+(-0.0077)Ala+(-0.0694)Tyr+(0.0689)Phe;0.725,0.764,0.687,0.678,0.689,0.773,0.649,0.697,(-0.3310)+(0.0437)Ser+(-0.1548)Asn+(-0.0204)Arg+(0.0077)Orn+(0.0302)Ile;0.725,0.757,0.759,0.768,0.753,0.827,0.699,0.762,(3.1371)+(0.0018)Gln+(-0.0094)Ala+(-0.1191)Cit+(-0.0360)Tyr+(0.0557)Orn;0.725,0.760,0.772,0.768,0.725,0.824,0.844,0.790,(3.0409)+(-0.0773)Asn+(-0.0118)Ala+(-0.0112)Arg+(0.0069)Pro+(0.04

09)Ile;0.724,0.763,0.764,0.792,0.740,0.824,0.695,0.763,(3.8511)+(0.0168)Thr+(-0.0066)Ala+(0.0147)Pro+(-0.0087)Val+(-0.2320)Met;0.724,0.759,0.713,0.707,0.686,0.806,0.720,0.730,(-0.9471)+(0.0272)Ser+(-0.0146)Ala+(-0.0984)Cit+(0.0108)Pro+(0.0440)Phe;0.724,0.763,0.762,0.782,0.772,0.728,0.716,0.750,(2.4255)+(-0.0367)Asn+(-0.0608)Cit+(-0.0282)Tyr+(-0.1946)Met+(0.0979)Phe;0.724,0.765,0.715,0.702,0.678,0.776,0.782,0.735,(1.7319)+(-0.0017)Gly+(0.0096)Orn+(-0.0158)Lys+(0.1405)Ile+(-0.0805)Leu;0.724,0.761,0.664,0.669,0.646,0.747,0.629,0.673,(-0.5796)+(0.0318)Ser+(-0.0108)Thr+(-0.0807)Cit+(-0.0579)Tyr+(0.0454)Ile;0.724,0.763,0.777,0.769,0.728,0.844,0.851,0.798,(3.3804)+(-0.0774)Asn+(0.0092)Thr+(-0.0101)Ala+(-0.0146)Lys+(0.0523)Ile;0.724,0.761,0.674,0.702,0.661,0.719,0.592,0.668,(-1.4905)+(0.0325)Ser+(-0.0087)Thr+(-0.0845)Cit+(-0.0722)Tyr+(0.0737)Phe;0.724,0.762,0.763,0.785,0.764,0.730,0.726,0.752,(1.3941)+(-0.0061)Arg+(-0.0253)Tyr+(-0.2402)Met+(-0.0051)Lys+(0.0975)Phe;0.724,0.760,0.648,0.676,0.640,0.699,0.553,0.642,(-1.4582)+(0.0285)Ser+(-0.0889)Cit+(0.0046)Pro+(-0.0842)Tyr+(0.0687)Phe;0.724,0.753,0.765,0.764,0.770,0.835,0.704,0.768,(3.6948)+(-0.0091)Ala+(-0.1093)Cit+(-0.0078)Arg+(-0.0082)Val+(0.0594)Orn;0.724,0.762,0.721,0.754,0.699,0.778,0.639,0.717,(1.2134)+(0.0359)Ser+(-0.1538)Asn+(0.0018)Gln+(-0.0388)Tyr+(0.0203)Orn;0.724,0.762,0.791,0.801,0.744,0.803,0.850,0.800,(3.8356)+(-0.1287)Asn+(-0.0053)Ala+(-0.0379)Val+(0.0481)Leu+(0.0702)Phe;0.724,0.759,0.784,0.780,0.736,0.841,0.855,0.803,(3.4281)+(-0.0596)Asn+(-0.0097)Ala+(-0.0055)Arg+(-0.0117)Lys+(0.0536)Ile;0.724,0.760,0.695,0.697,0.687,0.732,0.679,0.699,(-1.5398)+(0.0436)Ser+(-0.2000)Asn+(0.0013)Gln+(0.0003)Pro+(0.0475)Phe;0.724,0.766,0.736,0.742,0.778,0.794,0.593,0.727,(3.6923)+(0.0167)Thr+(-0.1004)Cit+(-0.0200)Tyr+(-0.2247)Met+(0.0428)Orn;0.724,0.766,0.752,0.756,0.788,0.804,0.628,0.744,(2.2595)+(0.0033)Gln+(0.0145)Thr+(-0.1008)Cit+(-0.2697)Met+(0.0357)Orn;0.

724,0.761,0.788,0.795,0.778,0.829,0.758,0.790,(5.1742)+(-0.0079)Ala+(-0.0644)Cit+(0.0160)Pro+(-0.0044)Val+(-0.1502)Met;0.724,0.757,0.707,0.709,0.703,0.734,0.689,0.709,(1.6024)+(0.0002)Gly+(0.0193)Thr+(-0.0213)Tyr+(-0.3162)Met+(0.0555)Ile;0.724,0.766,0.803,0.818,0.769,0.838,0.811,0.809,(2.4347)+(0.0047)Gln+(-0.0363)Val+(-0.2521)Met+(-0.0022)Lys+(0.0627)Leu;0.724,0.758,0.770,0.775,0.750,0.813,0.766,0.776,(3.7346)+(-0.0418)Asn+(-0.0079)Ala+(0.0120)Pro+(-0.1657)Met+(0.0229)Orn;0.724,0.763,0.742,0.732,0.747,0.765,0.740,0.746,(2.1445)+(-0.0109)Arg+(0.0023)Pro+(-0.2752)Met+(0.0102)Orn+(0.0467)Ile;0.724,0.759,0.742,0.758,0.772,0.743,0.637,0.727,(0.5937)+(0.0055)Gly+(-0.0745)Cit+(-0.2831)Met+(-0.0057)Leu+(0.1069)Phe;0.724,0.759,0.751,0.798,0.731,0.716,0.695,0.735,(2.7175)+(-0.1079)Asn+(-0.0638)Tyr+(0.0287)Orn+(-0.0220)Leu+(0.0870)Phe;0.724,0.760,0.756,0.768,0.787,0.782,0.642,0.745,(4.5909)+(-0.0529)Asn+(0.0259)Thr+(-0.0714)Cit+(-0.2275)Met+(0.0053)Leu;0.724,0.758,0.762,0.787,0.774,0.735,0.692,0.747,(0.5701)+(0.0027)Gly+(-0.0106)Arg+(-0.2833)Met+(-0.0087)Leu+(0.0998)Phe;0.724,0.763,0.690,0.677,0.670,0.759,0.716,0.705,(-1.2509)+(0.0455)Ser+(-0.1659)Asn+(0.0016)Gln+(-0.0106)Thr+(0.0324)Ile;0.724,0.762,0.778,0.771,0.733,0.830,0.856,0.797,(2.0062)+(-0.1022)Asn+(-0.0112)Ala+(0.0092)Orn+(0.0356)Ile+(0.0281)Phe;0.724,0.766,0.753,0.739,0.697,0.817,0.859,0.778,(1.4722)+(-0.0130)Ala+(0.0054)Pro+(-0.0214)Lys+(0.0491)Ile+(0.0228)Phe;0.724,0.762,0.710,0.716,0.716,0.741,0.661,0.708,(2.2718)+(0.0246)Thr+(-0.0180)Arg+(-0.0220)Tyr+(-0.3006)Met+(0.0556)Ile;0.724,0.749,0.757,0.754,0.760,0.833,0.701,0.762,(3.2191)+(0.0010)Gly+(-0.0097)Ala+(-0.1177)Cit+(-0.0077)Val+(0.0584)Orn;0.724,0.761,0.734,0.728,0.738,0.759,0.724,0.737,(1.8954)+(0.0026)Gly+(-0.0100)Arg+(0.0025)Pro+(-0.2809)Met+(0.0518)Ile;0.724,0.757,0.738,0.709,0.772,0.780,0.710,0.743,(3.1785)+(-0.1109)Asn+(-0.1034)Cit+(-0.0033)Pro+(0.0395)Orn+(0.0219)Ile;0.724,0.764,0.689,

0.681,0.688,0.769,0.656,0.698,(-0.2919)+(0.0441)Ser+(-0.1519)Asn+(-0.0193)Arg+(-0.0007)Pro+(0.0338)Ile;0.724,0.762,0.750,0.778,0.728,0.826,0.665,0.749,(2.7653)+(0.0362)Ser+(-0.1444)Asn+(0.0033)Thr+(-0.0104)Val+(-0.0028)Lys;0.724,0.768,0.718,0.745,0.705,0.791,0.623,0.716,(1.9076)+(0.0376)Ser+(-0.1303)Asn+(-0.0325)Tyr+(0.0263)Orn+(-0.0086)Lys;0.724,0.766,0.696,0.741,0.656,0.759,0.618,0.693,(-1.0201)+(0.0295)Ser+(-0.0624)Tyr+(-0.0113)Val+(-0.0163)Lys+(0.0909)Phe;0.724,0.764,0.804,0.815,0.772,0.838,0.819,0.811,(2.2577)+(0.0045)Gln+(0.0095)Tyr+(-0.0382)Val+(-0.2736)Met+(0.0644)Leu;0.724,0.765,0.773,0.800,0.772,0.819,0.670,0.765,(4.6849)+(-0.0823)Asn+(0.0172)Thr+(-0.0130)Val+(-0.1597)Met+(0.0300)Orn;0.724,0.760,0.680,0.721,0.669,0.718,0.567,0.669,(-1.1316)+(0.0280)Ser+(-0.0843)Cit+(-0.0751)Tyr+(-0.0143)Leu+(0.0897)Phe;0.724,0.759,0.732,0.726,0.738,0.763,0.715,0.736,(1.8184)+(0.0022)Gly+(-0.0114)Arg+(-0.2750)Met+(0.0090)Orn+(0.0513)Ile;0.724,0.756,0.750,0.734,0.751,0.832,0.735,0.763,(2.9504)+(-0.0139)Ala+(-0.1177)Cit+(-0.0066)Arg+(0.0098)Pro+(0.0496)Orn;0.723,0.760,0.764,0.765,0.788,0.747,0.725,0.756,(1.7206)+(-0.0683)Cit+(0.0069)Arg+(-0.2588)Met+(-0.0074)Lys+(0.0959)Phe;0.723,0.763,0.734,0.754,0.743,0.805,0.613,0.729,(1.5823)+(0.0382)Ser+(-0.1424)Asn+(-0.0183)Arg+(0.0224)Orn+(-0.0092)Leu;0.723,0.762,0.747,0.763,0.769,0.799,0.622,0.738,(4.3909)+(0.0214)Thr+(-0.0657)Cit+(0.0104)Pro+(-0.0083)Val+(-0.2614)Met;0.723,0.763,0.645,0.651,0.635,0.740,0.583,0.652,(-0.3978)+(0.0263)Ser+(-0.0858)Cit+(0.0010)Pro+(-0.0674)Tyr+(0.0423)Ile;0.723,0.753,0.747,0.735,0.736,0.833,0.738,0.760,(3.0846)+(-0.0100)Ala+(-0.1104)Cit+(-0.0264)Val+(0.0583)Orn+(0.0363)Leu;0.723,0.760,0.784,0.787,0.780,0.820,0.760,0.787,(4.8404)+(-0.0088)Ala+(-0.0694)Cit+(0.0153)Pro+(-0.1579)Met+(0.0007)Lys;0.723,0.758,0.736,0.742,0.705,0.793,0.744,0.746,(2.4558)+(-0.0025)Thr+(-0.0293)Arg+(-0.0045)Pro+(0.1678)Ile+(-0.0952)Leu;0.723,0.763,0.754,0.785,0.74

3,0.722,0.719,0.742,(-0.9795)+(0.0040)Gln+(-0.0290)Tyr+(-0.2989)Met+(0.0102)Orn+(0.0925)Phe;0.723,0.761,0.694,0.693,0.688,0.735,0.676,0.698,(-1.5268)+(0.0435)Ser+(-0.2006)Asn+(0.0011)Gln+(0.0048)Orn+(0.0460)Phe;0.723,0.761,0.783,0.785,0.777,0.821,0.764,0.787,(4.7520)+(-0.0089)Ala+(-0.0740)Cit+(0.0053)Arg+(0.0155)Pro+(-0.1614)Met;0.723,0.761,0.649,0.634,0.610,0.765,0.690,0.675,(-0.6018)+(0.0228)Ser+(-0.0037)Gln+(-0.0063)Pro+(0.1546)Ile+(-0.0878)Leu;0.723,0.760,0.766,0.792,0.764,0.728,0.730,0.753,(1.2130)+(-0.0262)Tyr+(-0.2398)Met+(-0.0046)Lys+(-0.0069)Leu+(0.1038)Phe;0.723,0.760,0.764,0.755,0.798,0.807,0.686,0.762,(4.3492)+(-0.0522)Asn+(-0.0979)Cit+(0.0020)Arg+(-0.1538)Met+(0.0483)Orn;0.723,0.755,0.752,0.745,0.743,0.837,0.726,0.763,(3.3595)+(-0.0124)Ala+(-0.1161)Cit+(0.0112)Pro+(-0.0095)Val+(0.0545)Orn;0.723,0.767,0.650,0.603,0.675,0.775,0.632,0.671,(-1.6220)+(0.0381)Ser+(-0.0963)Cit+(-0.0345)Lys+(0.0467)Ile+(0.0389)Phe;0.723,0.761,0.679,0.662,0.668,0.761,0.685,0.694,(-0.6750)+(0.0425)Ser+(-0.1763)Asn+(-0.0020)Pro+(0.0047)Orn+(0.0306)Ile;0.723,0.759,0.706,0.708,0.701,0.734,0.690,0.708,(1.6513)+(0.0190)Thr+(0.0023)Pro+(-0.0231)Tyr+(-0.3173)Met+(0.0530)Ile;0.723,0.759,0.761,0.778,0.744,0.760,0.756,0.759,(3.1876)+(-0.1459)Asn+(0.0051)Pro+(-0.0243)Val+(0.0316)Orn+(0.0680)Phe;0.723,0.758,0.799,0.809,0.785,0.813,0.794,0.800,(3.4816)+(-0.0876)Asn+(-0.0078)Ala+(-0.0721)Cit+(-0.0081)Leu+(0.0723)Phe;0.723,0.754,0.725,0.720,0.704,0.826,0.708,0.740,(0.8442)+(0.0258)Ser+(-0.0132)Ala+(-0.0932)Cit+(0.0130)Pro+(0.0004)Leu;0.723,0.767,0.735,0.773,0.724,0.793,0.620,0.727,(2.1066)+(0.0392)Ser+(-0.1230)Asn+(-0.0126)Arg+(-0.0281)Tyr+(0.0000)Leu;0.723,0.762,0.773,0.813,0.767,0.736,0.709,0.756,(3.4961)+(-0.0874)Asn+(-0.0621)Cit+(-0.0547)Tyr+(-0.0146)Leu+(0.0947)Phe;0.723,0.762,0.762,0.789,0.759,0.797,0.669,0.754,(4.
9014)+(-0.0704)Asn+(0.0211)Thr+(0.0102)Pro+(-0.0128)Val+(-0.1988)Met;

0.723,0.758,0.726,0.717,0.728,0.752,0.729,0.731,(1.4487)+(0.0020)Gly+(0.0021)Pro+(-0.2985)Met+(0.0048)Orn+(0.0503)Ile;0.723,0.757,0.795,0.815,0.764,0.818,0.791,0.797,(2.5612)+(-0.0558)Asn+(0.0052)Gln+(-0.0072)Ala+(0.0122)Pro+(-0.1745)Met;0.723,0.762,0.700,0.697,0.644,0.760,0.782,0.721,(-0.9063)+(-0.0080)Pro+(-0.0020)Orn+(0.1586)Ile+(-0.0988)Leu+(0.0351)Phe;0.723,0.761,0.799,0.804,0.766,0.829,0.830,0.807,(5.3746)+(-0.0595)Asn+(-0.0026)Ala+(-0.0374)Val+(-0.1406)Met+(0.0653)Leu;0.723,0.760,0.793,0.833,0.738,0.782,0.808,0.790,(1.3105)+(-0.1183)Asn+(0.0054)Gln+(-0.0066)Ala+(-0.0532)Tyr+(0.0760)Phe;0.723,0.757,0.769,0.789,0.788,0.817,0.645,0.760,(4.3575)+(0.0012)Gly+(0.0227)Thr+(-0.0049)Ala+(-0.0751)Cit+(-0.2117)Met;0.723,0.754,0.767,0.775,0.791,0.747,0.714,0.757,(1.8131)+(-0.0620)Cit+(-0.2512)Met+(-0.0046)Lys+(-0.0047)Leu+(0.0987)Phe;0.723,0.752,0.752,0.745,0.762,0.830,0.695,0.758,(2.8262)+(0.0019)Gly+(-0.0113)Ala+(-0.1197)Cit+(-0.0067)Arg+(0.0542)Orn;0.723,0.764,0.708,0.739,0.717,0.680,0.629,0.691,(-0.2461)+(0.0249)Thr+(-0.0365)Tyr+(-0.3497)Met+(0.0042)Orn+(0.1044)Phe;0.723,0.758,0.761,0.777,0.792,0.792,0.634,0.749,(5.0450)+(-0.0538)Asn+(0.0259)Thr+(-0.0689)Cit+(-0.2020)Met+(-0.0027)Lys;0.723,0.758,0.726,0.725,0.673,0.778,0.801,0.744,(1.2735)+(0.0001)Gly+(-0.0137)Thr+(-0.0050)Pro+(0.1625)Ile+(-0.0929)Leu;0.723,0.761,0.765,0.783,0.756,0.759,0.741,0.760,(3.0674)+(-0.1639)Asn+(0.0114)Thr+(-0.0244)Val+(0.0291)Orn+(0.0751)Phe;0.723,0.766,0.751,0.768,0.726,0.795,0.729,0.755,(2.5368)+(0.0489)Ser+(-0.1173)Asn+(-0.0077)Gly+(-0.0307)Tyr+(-0.0061)Lys;0.723,0.754,0.787,0.808,0.771,0.824,0.737,0.785,(4.7653)+(-0.0680)Asn+(-0.0031)Ala+(-0.0110)Val+(-0.1006)Met+(0.0380)Orn;0.723,0.758,0.780,0.802,0.706,0.824,0.842,0.794,(2.2482)+(-0.0969)Asn+(0.0044)Gln+(-0.0087)Ala+(-0.0381)Tyr+(0.0487)Ile;0.722,0.757,0.823,0.855,0.780,0.812,0.836,0.821,(1.9020)+(-0.1416)Asn+(0.0052)Gln+(-0.0051)Ala+(-0.0164)Val+(0.0776)Phe;0.722,0.7

60,0.746,0.746,0.772,0.726,0.707,0.738,(1.2347)+(-0.0661)Cit+(0.0021)Arg+(0.0070)Pro+(-0.3029)Met+(0.0889)Phe;0.722,0.759,0.763,0.770,0.740,0.816,0.756,0.770,(3.3655)+(-0.0080)Ala+(0.0126)Pro+(-0.1896)Met+(0.0244)Orn+(-0.0054)Lys;0.722,0.756,0.773,0.791,0.782,0.737,0.731,0.760,(1.1774)+(-0.0078)Arg+(-0.2684)Met+(-0.0033)Lys+(-0.0075)Leu+(0.0966)Phe;0.722,0.764,0.747,0.741,0.740,0.771,0.760,0.753,(2.9292)+(-0.0039)Arg+(-0.0128)Tyr+(-0.2263)Met+(-0.0088)Lys+(0.0586)Ile;0.722,0.756,0.758,0.790,0.705,0.758,0.783,0.759,(2.9179)+(-0.0911)Asn+(-0.0092)Ala+(0.0109)Pro+(-0.0541)Tyr+(0.0715)Phe;0.722,0.765,0.686,0.664,0.611,0.807,0.815,0.724,(-1.6582)+(0.0387)Ser+(-0.0029)Gln+(-0.0188)Thr+(-0.0124)Ala+(0.0585)Ile;0.722,0.751,0.739,0.725,0.736,0.831,0.714,0.752,(2.3695)+(0.0024)Gly+(-0.0145)Ala+(-0.1273)Cit+(0.0101)Pro+(0.0489)Orn;0.722,0.761,0.780,0.774,0.731,0.830,0.859,0.799,(2.0058)+(-0.1106)Asn+(0.0061)Thr+(-0.0114)Ala+(0.0369)Ile+(0.0306)Phe;0.722,0.759,0.738,0.763,0.736,0.714,0.693,0.726,(0.2555)+(0.0013)Gly+(-0.0288)Tyr+(-0.2763)Met+(0.0148)Orn+(0.0917)Phe;0.722,0.757,0.777,0.773,0.738,0.832,0.829,0.793,(2.9174)+(-0.0795)Asn+(-0.0103)Ala+(-0.0135)Arg+(0.0155)Orn+(0.0413)Ile;0.722,0.752,0.747,0.731,0.742,0.831,0.741,0.761,(2.4925)+(0.0005)Gln+(-0.0143)Ala+(-0.1238)Cit+(0.0096)Pro+(0.0483)Orn;0.722,0.765,0.721,0.753,0.703,0.784,0.626,0.716,(1.8615)+(0.0364)Ser+(-0.1443)Asn+(-0.0362)Tyr+(0.0237)Orn+(-0.0040)Leu;0.722,0.758,0.713,0.731,0.661,0.802,0.709,0.726,(-1.7463)+(0.0293)Ser+(-0.0130)Ala+(-0.0305)Arg+(0.0095)Pro+(0.0417)Phe;0.722,0.750,0.750,0.737,0.745,0.835,0.730,0.762,(2.9727)+(-0.0137)Ala+(-0.1220)Cit+(0.0103)Pro+(0.0508)Orn+(-0.0060)Leu;0.722,0.764,0.747,0.733,0.759,0.769,0.742,0.751,(3.0987)+(-0.0699)Cit+(0.0044)Arg+(-0.0134)Tyr+(-0.2354)Met+(0.0566)Ile;0.722,0.757,0.799,0.802,0.787,0.822,0.798,0.802,(3.6487)+(-0.0760)Asn+(-0.0081)Ala+(-0.0728)Cit+(-0.0066)Lys+(0.0681)Phe;0.722,0.750,0.750,0.74

3,0.756,0.827,0.703,0.757,(2.7114)+(0.0016)Gly+(-0.0113)Ala+(-0.1246)Cit+(0.0543)Orn+(-0.0022)Leu;0.722,0.762,0.709,0.704,0.653,0.764,0.798,0.730,(-0.5332)+(-0.0020)Gly+(-0.0079)Pro+(0.1578)Ile+(-0.0987)Leu+(0.0340)Phe;0.722,0.755,0.756,0.749,0.756,0.816,0.730,0.763,(1.5236)+(-0.0120)Ala+(-0.1216)Cit+(0.0510)Orn+(-0.0106)Leu+(0.0476)Phe;0.722,0.754,0.756,0.741,0.760,0.819,0.741,0.765,(1.7062)+(-0.0126)Ala+(-0.1168)Cit+(-0.0075)Arg+(0.0492)Orn+(0.0378)Phe;0.722,0.754,0.774,0.785,0.794,0.745,0.725,0.762,(2.2559)+(-0.0363)Asn+(-0.0609)Cit+(-0.2225)Met+(-0.0082)Leu+(0.0975)Phe;0.722,0.759,0.765,0.791,0.763,0.718,0.731,0.751,(1.8352)+(-0.0375)Asn+(-0.0063)Arg+(-0.0297)Tyr+(-0.2099)Met+(0.0938)Phe;0.722,0.759,0.759,0.780,0.785,0.789,0.627,0.745,(5.1699)+(-0.0584)Asn+(0.0260)Thr+(-0.0679)Cit+(-0.0136)Tyr+(-0.1864)Met;0.722,0.759,0.759,0.768,0.745,0.774,0.751,0.759,(0.8221)+(0.0051)Gln+(-0.0147)Arg+(-0.0137)Tyr+(-0.2717)Met+(0.0532)Ile;0.722,0.764,0.662,0.630,0.619,0.770,0.760,0.695,(-0.4627)+(0.0318)Ser+(-0.0077)Gly+(-0.0033)Gln+(0.1448)Ile+(-0.0876)Leu;0.722,0.760,0.773,0.788,0.759,0.772,0.761,0.770,(3.1948)+(-0.1358)Asn+(-0.0220)Val+(0.0344)Orn+(-0.0032)Lys+(0.0713)Phe;0.722,0.757,0.760,0.777,0.789,0.789,0.633,0.747,(4.9196)+(-0.0542)Asn+(0.0258)Thr+(-0.0676)Cit+(-0.0024)Arg+(-0.2096)Met;0.722,0.762,0.711,0.706,0.696,0.735,0.739,0.719,(-1.2994)+(0.0495)Ser+(-0.1975)Asn+(-0.0050)Gly+(0.0018)Gln+(0.0440)Phe;0.722,0.754,0.778,0.781,0.766,0.828,0.762,0.784,(5.1593)+(-0.0922)Asn+(0.0126)Thr+(-0.0108)Ala+(-0.0793)Cit+(0.0117)Pro;0.722,0.761,0.745,0.730,0.692,0.815,0.846,0.771,(1.9546)+(-0.0125)Ala+(0.0050)Pro+(0.0127)Orn+(-0.0214)Lys+(0.0498)Ile;0.722,0.760,0.758,0.741,0.777,0.795,0.736,0.763,(1.6954)+(-0.1438)Asn+(0.0055)Gln+(-0.1072)Cit+(0.0329)Orn+(0.0181)Ile;0.722,0.761,0.751,0.780,0.756,0.722,0.687,0.736,(0.7156)+(0.0023)Gly+(-0.0099)Arg+(-0.0239)Tyr+(-0.2625)Met+(0.0979)Phe;0.722,0.756,0.754,0.786,0.752,

0.716,0.703,0.739,(0.5630)+(0.0018)Gly+(-0.0252)Tyr+(-0.2610)Met+(-0.0089)Leu+(0.1055)Phe;0.722,0.757,0.758,0.773,0.773,0.735,0.708,0.747,(2.0398)+(-0.0613)Cit+(-0.0242)Tyr+(-0.2220)Met+(-0.0054)Lys+(0.1017)Phe;0.722,0.750,0.761,0.754,0.770,0.830,0.711,0.766,(3.2494)+(-0.0107)Ala+(-0.1161)Cit+(-0.0067)Arg+(0.0553)Orn+(-0.0035)Leu;0.722,0.759,0.767,0.782,0.734,0.774,0.790,0.770,(3.3550)+(-0.1534)Asn+(0.0034)Gly+(-0.0417)Val+(0.0478)Leu+(0.0691)Phe;0.722,0.757,0.766,0.758,0.716,0.825,0.848,0.787,(2.6976)+(-0.0952)Asn+(-0.0120)Ala+(0.0063)Pro+(0.0095)Orn+(0.0368)Ile;0.722,0.763,0.729,0.722,0.683,0.792,0.797,0.748,(1.9637)+(-0.0011)Gly+(-0.0059)Pro+(-0.0139)Lys+(0.1535)Ile+(-0.0821)Leu;0.722,0.759,0.760,0.750,0.701,0.831,0.857,0.785,(1.3394)+(0.0006)Gly+(-0.0117)Ala+(-0.0214)Lys+(0.0536)Ile+(0.0238)Phe;0.722,0.757,0.740,0.769,0.709,0.807,0.679,0.741,(2.0659)+(0.0356)Ser+(-0.1680)Asn+(0.0026)Gln+(0.0087)Pro+(-0.0151)Val;0.721,0.765,0.807,0.825,0.775,0.836,0.803,0.810,(2.4560)+(0.0053)Gln+(-0.0087)Arg+(-0.0356)Val+(-0.2459)Met+(0.0603)Leu;0.721,0.766,0.656,0.612,0.684,0.783,0.621,0.675,(-0.4020)+(0.0359)Ser+(-0.0850)Cit+(-0.0051)Arg+(-0.0290)Lys+(0.0530)Ile;0.721,0.758,0.698,0.728,0.675,0.754,0.627,0.696,(1.6332)+(0.0390)Ser+(-0.1392)Asn+(-0.0009)Thr+(0.0071)Pro+(-0.0402)Tyr;0.721,0.756,0.722,0.724,0.698,0.784,0.725,0.733,(2.1832)+(-0.0063)Thr+(-0.0316)Arg+(0.0177)Orn+(0.1590)Ile+(-0.0963)Leu;0.721,0.758,0.773,0.775,0.724,0.834,0.826,0.790,(2.6350)+(-0.0811)Asn+(0.0028)Gly+(-0.0102)Ala+(-0.0120)Arg+(0.0485)Ile;0.721,0.758,0.757,0.796,0.717,0.750,0.742,0.751,(2.7251)+(-0.1208)Asn+(0.0183)Thr+(-0.0072)Ala+(-0.0611)Tyr+(0.0818)Phe;0.721,0.757,0.707,0.710,0.704,0.732,0.690,0.709,(1.6405)+(0.0196)Thr+(-0.0214)Tyr+(-0.3161)Met+(-0.0008)Orn+(0.0556)Ile;0.721,0.762,0.736,0.776,0.707,0.785,0.655,0.731,(1.2301)+(0.0358)Ser+(-0.1505)Asn+(0.0027)Gln+(0.0005)Thr+(-0.0329)Tyr;0.721,0.762,0.679,0.688,0.645,0.742,0.676,0

.688,(-0.2565)+(0.0417)Ser+(-0.0088)Gly+(-0.0266)Arg+(-0.0676)Tyr+(0.0393)Ile;0.721,0.759,0.802,0.831,0.785,0.832,0.743,0.798,(3.2137)+(-0.0906)Asn+(0.0053)Gln+(-0.0126)Val+(-0.1342)Met+(0.0314)Orn;0.721,0.758,0.820,0.839,0.759,0.855,0.872,0.831,(3.8022)+(-0.1412)Asn+(0.0059)Gln+(-0.0044)Ala+(-0.0385)Val+(0.0579)Leu;0.721,0.754,0.750,0.732,0.746,0.829,0.751,0.764,(2.8886)+(-0.0040)Thr+(-0.0140)Ala+(-0.1217)Cit+(0.0101)Pro+(0.0507)Orn;0.721,0.756,0.775,0.792,0.793,0.822,0.656,0.766,(4.7059)+(0.0241)Thr+(-0.0048)Ala+(-0.0732)Cit+(-0.2020)Met+(-0.0032)Lys;0.721,0.749,0.761,0.758,0.764,0.831,0.713,0.767,(3.4409)+(-0.0017)Thr+(-0.0094)Ala+(-0.1156)Cit+(-0.0078)Val+(0.0592)Orn;0.721,0.761,0.734,0.726,0.778,0.795,0.623,0.730,(3.0990)+(0.0026)Gly+(-0.0983)Cit+(0.0062)Pro+(-0.2295)Met+(0.0417)Orn;0.721,0.759,0.786,0.790,0.725,0.842,0.862,0.805,(1.5636)+(-0.1134)Asn+(0.0014)Gly+(0.0036)Gln+(-0.0105)Ala+(0.0440)Ile;0.721,0.759,0.824,0.848,0.812,0.838,0.777,0.819,(3.1211)+(-0.0704)Asn+(0.0081)Gln+(-0.0044)Ala+(-0.0758)Cit+(-0.1154)Met;0.721,0.756,0.717,0.719,0.696,0.785,0.708,0.727,(1.9799)+(0.0002)Gly+(-0.0355)Arg+(0.0145)Orn+(0.1580)Ile+(-0.0962)Leu;0.721,0.761,0.730,0.727,0.731,0.787,0.692,0.734,(1.1244)+(0.0477)Ser+(-0.1469)Asn+(-0.0057)Gly+(-0.0180)Arg+(0.0172)Orn;0.721,0.757,0.746,0.738,0.783,0.799,0.651,0.743,(3.5524)+(-0.0946)Cit+(0.0063)Pro+(-0.2159)Met+(0.0441)Orn+(-0.0044)Leu;0.721,0.756,0.746,0.749,0.779,0.808,0.626,0.740,(4.1845)+(-0.1128)Asn+(0.0035)Gly+(-0.1071)Cit+(0.0521)Orn+(-0.0121)Leu;0.721,0.755,0.736,0.757,0.749,0.808,0.603,0.729,(3.9499)+(-0.0938)Cit+(-0.0103)Arg+(-0.0437)Tyr+(-0.0113)Val+(0.0581)Orn;0.721,0.756,0.774,0.795,0.790,0.819,0.657,0.765,(4.6166)+(0.0233)Thr+(-0.0045)Ala+(-0.0708)Cit+(-0.0021)Val+(-0.2082)Met;0.721,0.756,0.730,0.732,0.701,0.789,0.739,0.740,(2.5412)+(-0.0024)Thr+(-0.0277)Arg+(-0.0040)Lys+(0.1582)Ile+(-0.0911)Leu;0.721,0.761,0.782,0.788,0.775,0.819,0.755,0.784,(4.

9922)+(-0.0086)Ala+(-0.0684)Cit+(0.0155)Pro+(-0.0069)Tyr+(-0.1459)Met;0.721,0.766,0.668,0.619,0.687,0.786,0.676,0.692,(-0.2368)+(0.0409)Ser+(-0.0043)Gly+(-0.0830)Cit+(-0.0303)Lys+(0.0514)Ile;0.721,0.755,0.791,0.814,0.765,0.794,0.782,0.789,(3.2680)+(-0.1473)Asn+(0.0168)Thr+(-0.0056)Ala+(-0.0183)Val+(0.0854)Phe;0.721,0.760,0.760,0.780,0.750,0.814,0.690,0.758,(3.6615)+(0.0197)Thr+(-0.0076)Ala+(-0.0150)Arg+(0.0131)Pro+(-0.2354)Met;0.721,0.755,0.779,0.799,0.786,0.738,0.740,0.766,(1.7149)+(-0.0367)Asn+(-0.0070)Ar

g+(-0.2368)Met+(-0.0104)Leu+(0.0955)Phe;0.721,0.762,0.711,0.692,0.628,0.809,0.863,0.748,(-2.1282)+(0.0424)Ser+(-0.0056)Gly+(-0.0200)Thr+(-0.0126)Ala+(0.0543)Ile;0.720,0.751,0.717,0.717,0.697,0.803,0.700,0.729,(-0.7429)+(0.0291)Ser+(-0.0014)Gln+(-0.0115)Ala+(-0.0925)Cit+(0.0552)Phe;0.720,0.751,0.759,0.748,0.767,0.829,0.723,0.767,(3.1034)+(-0.0008)Thr+(-0.0111)Ala+(-0.1171)Cit+(-0.0059)Arg+(0.0543)Orn;0.720,0.758,0.789,0.819,0.784,0.832,0.693,0.782,(4.9591)+(-0.0699)Asn+(0.0230)Thr+(-0.0026)Ala+(-0.0079)Val+(-0.1608)Met;0.720,0.761,0.651,0.678,0.648,0.699,0.547,0.643,(-1.0647)+(0.0307)Ser+(-0.0015)Gln+(-0.0850)Cit+(-0.0777)Tyr+(0.0736)Phe;0.720,0.756,0.729,0.753,0.703,0.805,0.663,0.731,(2.6722)+(0.0380)Ser+(-0.1499)Asn+(0.0092)Pro+(-0.0140)Val+(-0.0026)Lys;0.720,0.753,0.742,0.723,0.737,0.815,0.749,0.756,(1.6093)+(-0.0151)Ala+(-0.1237)Cit+(0.0085)Pro+(0.0456)Orn+(0.0297)Phe;0.720,0.762,0.784,0.795,0.757,0.814,0.790,0.789,(5.0833)+(-0.0665)Asn+(0.0022)Gly+(-0.0393)Val+(-0.1578)Met+(0.0664)Leu;0.720,0.761,0.700,0.697,0.694,0.775,0.665,0.708,(-0.7546)+(0.0424)Ser+(-0.1622)Asn+(0.0022)Gln+(-0.0210)Arg+(0.0317)Ile;0.720,0.754,0.763,0.788,0.734,0.807,0.726,0.764,(2.0556)+(0.0030)Gln+(0.0132)Thr+(-0.0078)Ala+(0.0127)Pro+(-0.2585)Met;0.720,0.763,0.691,0.674,0.633,0.778,0.790,0.719,(-1.1695)+(0.0281)Ser+(-0.0085)Gly+(-0.0070)Pro+(0.1546)Ile+(-0.0902)Leu;0.720,0.760,0.73

6,0.758,0.758,0.732,0.632,0.720,(0.7819)+(0.0052)Gly+(-0.0741)Cit+(-0.0207)Tyr+(-0.2629)Met+(0.1075)Phe;0.720,0.762,0.757,0.780,0.719,0.794,0.748,0.761,(5.7510)+(-0.1493)Asn+(0.0220)Thr+(-0.0286)Tyr+(-0.0425)Val+(0.0621)Leu;0.720,0.756,0.750,0.786,0.723,0.783,0.690,0.746,(5.2513)+(-0.1069)Asn+(0.0088)Pro+(-0.0360)Tyr+(-0.0164)Val+(0.0380)Orn;0.720,0.757,0.772,0.786,0.780,0.758,0.726,0.763,(3.8047)+(-0.1528)Asn+(0.0176)Thr+(-0.0609)Cit+(-0.0193)Val+(0.0839)Phe;0.720,0.765,0.666,0.681,0.685,0.767,0.517,0.662,(0.6946)+(0.0213)Ser+(-0.1083)Cit+(0.0040)Pro+(-0.0655)Tyr+(0.0390)Orn;0.720,0.757,0.749,0.764,0.770,0.780,0.642,0.739,(2.1497)+(0.0046)Gln+(0.0183)Thr+(-0.0809)Cit+(0.0075)Pro+(-0.2993)Met;0.720,0.757,0.675,0.683,0.617,0.722,0.743,0.691,(-1.2271)+(0.0433)Ser+(-0.0090)Gly+(-0.0132)Thr+(-0.0672)Tyr+(0.0390)Ile;0.720,0.759,0.794,0.795,0.779,0.817,0.805,0.799,(3.3286)+(-0.0904)Asn+(-0.0088)Ala+(-0.0779)Cit+(0.0044)Arg+(0.0634)Phe;0.720,0.752,0.753,0.737,0.755,0.814,0.751,0.764,(1.5924)+(-0.0028)Thr+(-0.0127)Ala+(-0.1223)Cit+(0.0500)Orn+(0.0369)Phe;0.720,0.757,0.765,0.795,0.765,0.725,0.712,0.749,(1.3110)+(-0.0092)Arg+(-0.0267)Tyr+(-0.2347)Met+(-0.0093)Leu+(0.1046)Phe;0.720,0.764,0.748,0.767,0.721,0.786,0.725,0.750,(2.3584)+(0.0479)Ser+(-0.1287)Asn+(-0.0075)Gly+(-0.0356)Tyr+(-0.0009)Leu;0.720,0.761,0.770,0.778,0.709,0.821,0.837,0.786,(3.8334)+(-0.0559)Asn+(-0.0085)Ala+(-0.0310)Tyr+(-0.0102)Lys+(0.0573)Ile;0.720,0.759,0.761,0.750,0.703,0.832,0.860,0.786,(1.4278)+(0.0012)Thr+(-0.0118)Ala+(-0.0216)Lys+(0.0531)Ile+(0.0235)Phe;0.720,0.750,0.763,0.755,0.769,0.831,0.724,0.770,(2.5016)+(0.0016)Gln+(-0.0114)Ala+(-0.1172)Cit+(-0.0082)Arg+(0.0521)Orn;0.720,0.765,0.658,0.662,0.641,0.765,0.605,0.668,(-0.3124)+(0.0343)Ser+(-0.0191)Arg+(-0.0471)Tyr+(-0.0201)Lys+(0.0534)Ile;0.720,0.750,0.750,0.741,0.755,0.826,0.709,0.758,(2.3735)+(0.0015)Gly+(0.0006)Gln+(-0.0118)Ala+(-0.1256)Cit+(0.0527)Orn;0.720,0.762,0.737,0.758,0.7

01,0.825,0.690,0.744,(-1.2444)+(0.0339)Ser+(-0.0086)Ala+(-0.0208)Arg+(-0.0164)Lys+(0.0593)Phe;0.720,0.758,0.725,0.729,0.698,0.789,0.726,0.736,(2.3884)+(0.0007)Gly+(-0.0294)Arg+(-0.0047)Lys+(0.1578)Ile+(-0.0907)Leu;0.720,0.756,0.765,0.797,0.722,0.769,0.768,0.764,(2.6589)+(-0.0972)Asn+(-0.0070)Ala+(-0.0535)Tyr+(0.0235)Orn+(0.0703)Phe;0.720,0.756,0.728,0.752,0.702,0.802,0.667,0.731,(2.6281)+(0.0378)Ser+(-0.1546)Asn+(-0.0006)Thr+(0.0092)Pro+(-0.0147)Val;0.720,0.753,0.751,0.738,0.749,0.813,0.746,0.762,(1.2291)+(0.0007)Gln+(-0.0131)Ala+(-0.1242)Cit+(0.0480)Orn+(0.0359)Phe;0.720,0.760,0.765,0.756,0.704,0.832,0.867,0.790,(0.9562)+(0.0015)Gln+(-0.0119)Ala+(-0.0224)Lys+(0.0532)Ile+(0.0222)Phe;0.720,0.758,0.752,0.737,0.698,0.823,0.851,0.777,(1.9523)+(-0.0000)Gly+(-0.0113)Ala+(0.0146)Orn+(-0.0216)Lys+(0.0536)Ile;0.720,0.765,0.690,0.709,0.710,0.790,0.525,0.684,(1.2701)+(0.0198)Ser+(-0.1091)Cit+(-0.0560)Tyr+(0.0450)Orn+(-0.0070)Leu;0.720,0.758,0.787,0.830,0.754,0.816,0.723,0.781,(3.9261)+(-0.1253)Asn+(0.0046)Gln+(-0.0306)Tyr+(-0.0143)Val+(0.0354)Orn;0.720,0.756,0.787,0.789,0.730,0.841,0.864,0.806,(1.6854)+(-0.1132)Asn+(0.0036)Gln+(-0.0106)Ala+(0.0077)Orn+(0.0404)Ile;0.720,0.759,0.767,0.761,0.712,0.829,0.851,0.788,(2.7677)+(-0.0992)Asn+(0.0043)Thr+(-0.0121)Ala+(0.0064)Pro+(0.0391)Ile;0.720,0.751,0.751,0.743,0.757,0.824,0.708,0.758,(2.7090)+(0.0021)Gly+(-0.0035)Thr+(-0.0113)Ala+(-0.1245)Cit+(0.0552)Orn;0.720,0.759,0.741,0.747,0.722,0.756,0.754,0.745,(0.6951)+(0.0038)Gln+(0.0026)Pro+(-0.0169)Tyr+(-0.2898)Met+(0.0507)Ile;0.720,0.755,0.779,0.777,0.736,0.834,0.832,0.795,(3.0133)+(-0.0885)Asn+(0.0091)Thr+(-0.0104)Ala+(-0.0142)Arg+(0.0446)Ile;0.719,0.762,0.727,0.760,0.711,0.797,0.624,0.723,(2.1758)+(0.0374)Ser+(-0.1293)Asn+(0.0036)Thr+(-0.0280)Tyr+(-0.0061)Lys;0.719,0.758,0.708,0.742,0.680,0.757,0.639,0.705,(1.1607)+(0.0369)Ser+(-0.1509)Asn+(0.0022)Gln+(0.0066)Pro+(-0.0413)Tyr;0.719,0.756,0.715,0.749,0.665,0.822,0.651,0.

722,(1.0110)+(0.0278)Ser+(-0.0094)Ala+(-0.0239)Arg+(0.0135)Pro+(-0.0385)Tyr;0.719,0.754,0.731,0.722,0.705,0.822,0.740,0.747,(0.9483)+(0.0301)Ser+(-0.0036)Gly+(-0.0130)Ala+(-0.0878)Cit+(0.0127)Pro;0.719,0.755,0.784,0.798,0.761,0.821,0.769,0.787,(5.6770)+(-0.0607)Asn+(-0.0091)Ala+(-0.0686)Cit+(0.0140)Pro+(-0.0252)Tyr;0.719,0.754,0.732,0.733,0.725,0.751,0.732,0.735,(2.3130)+(-0.0271)Asn+(0.0023)Gly+(-0.0152)Tyr+(-0.2343)Met+(0.0534)Ile;0.719,0.761,0.715,0.721,0.733,0.769,0.621,0.711,(2.4518)+(-0.1108)Cit+(-0.0652)Tyr+(0.0569)Orn+(-0.0216)Lys+(0.0720)Phe;0.719,0.758,0.729,0.741,0.764,0.774,0.589,0.717,(3.5295)+(0.0020)Gly+(0.0205)Thr+(-0.0771)Cit+(0.0082)Pro+(-0.2828)Met;0.719,0.754,0.768,0.782,0.710,0.808,0.819,0.780,(3.6215)+(-0.0634)Asn+(-0.0086)Ala+(-0.0087)Arg+(-0.0346)Tyr+(0.0521)Ile;0.719,0.756,0.797,0.825,0.762,0.805,0.789,0.795,(2.9212)+(-0.1209)Asn+(0.0028)Gly+(-0.0051)Ala+(-0.0159)Val+(0.0841)Phe;0.719,0.759,0.765,0.759,0.714,0.828,0.843,0.786,(1.6914)+(-0.0114)Ala+(-0.0121)Arg+(-0.0179)Lys+(0.0522)Ile+(0.0264)Phe;0.719,0.759,0.664,0.639,0.609,0.748,0.786,0.696,(-2.5335)+(0.0280)Ser+(-0.0088)Gly+(0.1442)Ile+(-0.0953)Leu+(0.0292)Phe;0.719,0.755,0.761,0.764,0.730,0.821,0.774,0.772,(4.9278)+(-0.1438)Asn+(0.0011)Gly+(-0.0463)Val+(0.0401)Orn+(0.0591)Leu;0.719,0.754,0.786,0.807,0.743,0.792,0.817,0.790,(3.5443)+(-0.1174)Asn+(-0.0078)Ala+(0.0114)Pro+(-0.0175)Val+(0.0754)Phe;0.719,0.753,0.727,0.718,0.768,0.792,0.622,0.725,(3.3677)+(-0.1209)Asn+(0.0044)Gly+(-0.1090)Cit+(0.0003)Pro+(0.0455)Orn;0.719,0.764,0.730,0.720,0.726,0.798,0.717,0.740,(1.4316)+(0.0489)Ser+(-0.1347)Asn+(-0.0069)Gly+(0.0221)Orn+(-0.0139)Lys;0.719,0.754,0.752,0.752,0.721,0.805,0.776,0.764,(5.0290)+(-0.1457)Asn+(0.0056)Pro+(-0.0469)Val+(0.0382)Orn+(0.0563)Leu;0.719,0.753,0.740,0.727,0.743,0.812,0.716,0.749,(0.9760)+(0.0028)Gly+(-0.0133)Ala+(-0.1280)Cit+(0.0485)Orn+(0.0395)Phe;0.719,0.759,0.736,0.747,0.768,0.738,0.635,0.722,(0.4095)+(0

.0057)Gly+(-0.0789)Cit+(0.0030)Arg+(-0.2973)Met+(0.1020)Phe;0.719,0.757,0.739,0.738,0.729,0.748,0.752,0.742,(2.6906)+(-0.0232)Asn+(0.0033)Pro+(-0.0196)Tyr+(-0.2318)Met+(0.0486)Ile;0.719,0.749,0.760,0.749,0.765,0.827,0.728,0.767,(3.0754)+(-0.0023)Thr+(-0.0109)Ala+(-0.1210)Cit+(0.0556)Orn+(-0.0029)Leu;0.719,0.762,0.720,0.731,0.726,0.789,0.631,0.719,(0.7896)+(0.0416)Ser+(-0.1432)Asn+(-0.0048)Thr+(-0.0168)Arg+(0.0196)Orn;0.719,0.756,0.743,0.740,0.785,0.798,0.622,0.736,(3.3094)+(0.0021)Gly+(-0.0998)Cit+(-0.2022)Met+(0.0462)Orn+(-0.0011)Leu;0.719,0.757,0.753,0.738,0.700,0.825,0.853,0.779,(1.9676)+(-0.0011)Thr+(-0.0112)Ala+(0.0151)Orn+(-0.0213)Lys+(0.0537)Ile;0.719,0.753,0.731,0.734,0.705,0.833,0.702,0.744,(1.3082)+(0.0252)Ser+(-0.0120)Ala+(-0.0862)Cit+(0.0139)Pro+(-0.0053)Val;0.719,0.758,0.737,0.752,0.748,0.710,0.693,0.726,(1.5928)+(-0.0622)Cit+(0.0083)Pro+(-0.0314)Tyr+(-0.2606)Met+(0.0974)Phe;0.719,0.756,0.647,0.693,0.630,0.709,0.515,0.637,(-1.4476)+(0.0337)Ser+(-0.0017)Gln+(-0.0288)Arg+(-0.0736)Tyr+(0.0711)Phe;0.719,0.758,0.792,0.794,0.778,0.824,0.795,0.798,(4.9503)+(-0.0038)Ala+(-0.0498)Cit+(-0.0295)Val+(-0.1760)Met+(0.0567)Leu;0.719,0.755,0.756,0.768,0.697,0.804,0.810,0.770,(3.3548)+(-0.0797)Asn+(-0.0088)Ala+(-0.0396)Tyr+(0.0169)Orn+(0.0460)Ile;0.719,0.758,0.738,0.737,0.766,0.788,0.645,0.734,(3.7573)+(-0.0953)Cit+(0.0068)Pro+(-0.0242)Tyr+(-0.1877)Met+(0.0456)Orn;0.719,0.756,0.751,0.766,0.730,0.804,0.715,0.754,(2.8393)+(0.0119)Thr+(-0.0081)Ala+(0.0124)Pro+(-0.2426)Met+(0.0153)Orn;0.719,0.756,0.758,0.776,0.739,0.802,0.719,0.759,(3.1873)+(-0.0003)Gly+(0.0156)Thr+(-0.0079)Ala+(0.0131)Pro+(-0.2441)Met;0.719,0.756,0.785,0.840,0.749,0.731,0.751,0.768,(1.3022)+(-0.1277)Asn+(0.0056)Gln+(-0.0621)Tyr+(-0.0184)Leu+(0.0889)Phe;0.719,0.754,0.734,0.734,0.727,0.748,0.741,0.737,(2.5669)+(-0.0288)Asn+(-0.0207)Tyr+(-0.2208)Met+(0.0121)Orn+(0.0477)Ile;0.719,0.761,0.772,0.778,0.771,0.810,0.732,0.772,(4.3937)+(0.0028)Gly+(

-0.0515)Cit+(-0.0320)Val+(-0.2109)Met+(0.0580)Leu;0.719,0.754,0.810,0.830,0.789,0.840,0.778,0.809,(3.4662)+(-0.1247)Asn+(0.0066)Gln+(0.0119)Thr+(-0.0074)Ala+(-0.0840)Cit;0.719,0.758,0.755,0.743,0.698,0.824,0.855,0.780,(1.5251)+(0.0012)Gln+(-0.0114)Ala+(0.0130)Orn+(-0.0224)Lys+(0.0538)Ile;0.719,0.766,0.719,0.729,0.729,0.801,0.613,0.718,(1.3248)+(0.0403)Ser+(-0.1304)Asn+(-0.0143)Arg+(0.0231)Orn+(-0.0103)Lys;0.719,0.759,0.722,0.742,0.685,0.815,0.681,0.731,(-1.3412)+(0.0314)Ser+(-0.0017)Gln+(-0.0103)Ala+(-0.0276)Arg+(0.0503)Phe;0.719,0.755,0.772,0.800,0.789,0.810,0.638,0.759,(2.6752)+(0.0047)Gln+(0.0195)Thr+(-0.0726)Cit+(-0.0047)Val+(-0.2582)Met;0.719,0.748,0.760,0.759,0.760,0.833,0.713,0.766,(3.0322)+(0.0008)Gln+(-0.0098)Ala+(-0.1170)Cit+(-0.0079)Val+(0.0573)Orn;0.719,0.759,0.700,0.679,0.682,0.758,0.749,0.717,(-0.7311)+(0.0477)Ser+(-0.1808)Asn+(-0.0051)Gly+(0.0018)Gln+(0.0257)Ile;0.719,0.761,0.730,0.751,0.689,0.812,0.702,0.739,(-1.7410)+(0.0277)Ser+(-0.0109)Ala+(-0.0309)Arg+(0.0123)Orn+(0.0438)Phe;0.719,0.755,0.741,0.748,0.722,0.760,0.749,0.745,(0.5832)+(0.0005)Gly+(0.0038)Gln+(-0.0146)Tyr+(-0.2891)Met+(0.0538)Ile;0.71

9,0.759,0.790,0.799,0.758,0.835,0.803,0.799,(3.9767)+(0.0012)Gly+(-0.0032)Ala+(-0.0349)Val+(-0.2050)Met+(0.0638)Leu;0.718,0.753,0.759,0.769,0.733,0.809,0.749,0.765,(2.9768)+(0.0003)Gly+(-0.0082)Ala+(0.0128)Pro+(-0.2070)Met+(0.0207)Orn;0.718,0.758,0.789,0.791,0.729,0.842,0.868,0.808,(1.7104)+(-0.1177)Asn+(0.0037)Gln+(0.0038)Thr+(-0.0106)Ala+(0.0422)Ile;0.718,0.758,0.756,0.744,0.715,0.822,0.824,0.776,(2.2907)+(-0.0108)Ala+(-0.0137)Arg+(0.0182)Orn+(-0.0183)Lys+(0.0521)Ile;0.718,0.757,0.752,0.776,0.728,0.802,0.703,0.753,(3.3659)+(0.0161)Thr+(-0.0076)Ala+(0.0137)Pro+(-0.0143)Tyr+(-0.2265)Met;0.718,0.752,0.775,0.789,0.752,0.810,0.763,0.778,(3.9915)+(-0.0381)Asn+(0.0017)Gly+(-0.0076)Ala+(0.0136)Pro+(-0.1584)Met;0.718,0.748,0.757,0.749,0.760,0.828,0.723,0.7

65,(2.5687)+(0.0010)Gln+(-0.0113)Ala+(-0.1229)Cit+(0.0532)Orn+(-0.0029)Leu;0.718,0.752,0.727,0.732,0.704,0.802,0.704,0.736,(-1.0138)+(0.0269)Ser+(-0.0112)Ala+(-0.0933)Cit+(-0.0050)Leu+(0.0582)Phe;0.718,0.764,0.698,0.744,0.647,0.695,0.685,0.693,(-1.1918)+(0.0381)Ser+(-0.0107)Gly+(-0.0848)Tyr+(-0.0177)Leu+(0.0819)Phe;0.718,0.756,0.745,0.755,0.703,0.805,0.761,0.756,(-1.2792)+(0.0367)Ser+(-0.0060)Gly+(-0.0103)Ala+(-0.0282)Arg+(0.0444)Phe;0.718,0.754,0.723,0.722,0.716,0.744,0.726,0.727,(1.8576)+(0.0017)Gly+(0.0030)Pro+(-0.0161)Tyr+(-0.2704)Met+(0.0520)Ile;0.718,0.755,0.725,0.731,0.696,0.785,0.728,0.735,(2.1821)+(0.0011)Gly+(-0.0043)Thr+(-0.0299)Arg+(0.1614)Ile+(-0.0945)Leu;0.718,0.761,0.704,0.731,0.687,0.770,0.622,0.702,(1.9071)+(0.0394)Ser+(-0.1277)Asn+(0.0075)Pro+(-0.0356)Tyr+(-0.0067)Lys;0.718,0.756,0.735,0.706,0.771,0.777,0.706,0.740,(3.1705)+(-0.1103)Asn+(-0.1001)Cit+(-0.0030)Arg+(0.0385)Orn+(0.0179)Ile;0.718,0.757,0.773,0.792,0.791,0.816,0.652,0.763,(4.5920)+(0.0243)Thr+(-0.0048)Ala+(-0.0707)Cit+(-0.0042)Arg+(-0.2102)Met;0.718,0.754,0.726,0.717,0.767,0.789,0.616,0.722,(3.3801)+(-0.1259)Asn+(0.0042)Gly+(0.0030)Thr+(-0.1093)Cit+(0.0445)Orn;0.718,0.757,0.759,0.777,0.740,0.807,0.714,0.760,(3.4233)+(0.0163)Thr+(-0.0077)Ala+(0.0131)Pro+(-0.2332)Met+(-0.0038)Lys;0.718,0.762,0.730,0.747,0.757,0.771,0.600,0.719,(4.0207)+(0.0224)Thr+(-0.0730)Cit+(0.0089)Pro+(-0.0181)Tyr+(-0.2574)Met;0.718,0.755,0.654,0.664,0.596,0.714,0.706,0.670,(-0.9290)+(0.0376)Ser+(-0.0104)Gly+(0.0015)Pro+(-0.0798)Tyr+(0.0339)Ile;0.718,0.759,0.724,0.758,0.705,0.783,0.632,0.719,(1.9140)+(0.0376)Ser+(-0.1384)Asn+(0.0016)Thr+(-0.0317)Tyr+(-0.0003)Leu;0.718,0.752,0.767,0.765,0.713,0.829,0.838,0.786,(2.3742)+(-0.0988)Asn+(0.0021)Gly+(-0.0106)Ala+(0.0105)Orn+(0.0430)Ile;0.718,0.763,0.661,0.618,0.680,0.783,0.649,0.682,(-0.5878)+(0.0390)Ser+(-0.0088)Thr+(-0.0851)Cit+(-0.0273)Lys+(0.0546)Ile;0.718,0.758,0.749,0.736,0.691,0.818,0.855,0.775,(2.0307

)+(0.0003)Gly+(-0.0125)Ala+(0.0056)Pro+(-0.0197)Lys+(0.0530)Ile;0.718,0.755,0.753,0.772,0.722,0.802,0.735,0.758,(3.2291)+(-0.0080)Ala+(0.0133)Pro+(-0.0151)Tyr+(-0.1852)Met+(0.0224)Orn;0.718,0.755,0.754,0.772,0.777,0.782,0.639,0.743,(1.9900)+(0.0047)Gln+(0.0203)Thr+(-0.0811)Cit+(-0.2948)Met+(0.0067)Leu;0.718,0.753,0.715,0.712,0.665,0.768,0.789,0.734,(0.8128)+(0.0005)Gln+(-0.0175)Thr+(0.0098)Orn+(0.1530)Ile+(-0.0930)Leu;0.718,0.765,0.649,0.601,0.677,0.784,0.622,0.671,(-0.2931)+(0.0361)Ser+(-0.0006)Gln+(-0.0883)Cit+(-0.0300)Lys+(0.0537)Ile;0.718,0.752,0.736,0.754,0.741,0.799,0.634,0.732,(3.9015)+(-0.0018)Gly+(-0.0999)Cit+(-0.0480)Tyr+(-0.0114)Val+(0.0579)Orn;0.718,0.764,0.659,0.615,0.682,0.790,0.632,0.680,(-0.3272)+(0.0354)Ser+(-0.0889)Cit+(-0.0038)Pro+(-0.0300)Lys+(0.0590)Ile;0.718,0.755,0.765,0.771,0.785,0.735,0.730,0.755,(1.9711)+(-0.0354)Asn+(-0.0670)Cit+(0.0052)Arg+(-0.2430)Met+(0.0897)Phe;0.718,0.755,0.792,0.820,0.772,0.767,0.777,0.784,(2.0118)+(-0.1815)Asn+(0.0045)Gln+(0.0136)Thr+(-0.0219)Val+(0.0763)Phe;0.718,0.755,0.741,0.748,0.722,0.759,0.751,0.745,(0.6369)+(0.0038)Gln+(-0.0158)Tyr+(-0.2863)Met+(0.0030)Orn+(0.0524)Ile;0.718,0.757,0.744,0.745,0.738,0.770,0.738,0.748,(4.5388)+(-0.0569)Asn+(-0.0676)Cit+(-0.0401)Tyr+(-0.0111)Lys+(0.0477)Ile;0.718,0.759,0.704,0.737,0.684,0.760,0.620,0.700,(1.9085)+(0.0380)Ser+(-0.1386)Asn+(0.0077)Pro+(-0.0386)Tyr+(-0.0042)Leu;0.718,0.755,0.753,0.756,0.776,0.805,0.660,0.749,(2.1582)+(-0.1454)Asn+(0.0034)Gly+(0.0050)Gln+(-0.1118)Cit+(0.0405)Orn;0.717,0.759,0.688,0.673,0.593,0.806,0.844,0.729,(-2.4232)+(0.0363)Ser+(-0.0234)Thr+(-0.0141)Ala+(0.0074)Pro+(0.0499)Ile;0.717,0.757,0.737,0.766,0.729,0.796,0.636,0.732,(3.1725)+(0.0126)Thr+(0.0097)Pro+(-0.0131)Val+(-0.2577)Met+(0.0226)Orn;0.717,0.760,0.753,0.743,0.692,0.823,0.859,0.779,(1.6035)+(0.0013)Gln+(-0.0126)Ala+(0.0052)Pro+(-0.0208)Lys+(0.0529)Ile;0.717,0.761,0.715,0.699,0.766,0.762,0.616,0.711,(1.9558)+(-0.1368)Asn+(

0.0058)Gly+(-0.1107)Cit+(0.0403)Orn+(0.0377)Phe;0.717,0.755,0.730,0.722,0.771,0.795,0.618,0.726,(3.4391)+(-0.1176)Asn+(0.0044)Gly+(-0.1072)Cit+(-0.0027)Arg+(0.0460)Orn;0.717,0.753,0.791,0.807,0.796,0.802,0.729,0.783,(2.5339)+(-0.0664)Asn+(0.0078)Gln+(-0.0754)Cit+(0.0071)Pro+(-0.1898)Met;0.717,0.756,0.771,0.790,0.788,0.815,0.656,0.762,(4.5333)+(0.0234)Thr+(-0.0048)Ala+(-0.0732)Cit+(-0.0030)Tyr+(-0.2076)Met;0.717,0.760,0.741,0.745,0.682,0.807,0.803,0.759,(2.6926)+(-0.0094)Ala+(-0.0380)Tyr+(0.0194)Orn+(-0.0184)Lys+(0.0561)Ile;0.717,0.758,0.756,0.746,0.704,0.821,0.842,0.778,(2.3942)+(-0.0123)Ala+(-0.0121)Arg+(0.0062)Pro+(-0.0162)Lys+(0.0519)Ile;0.717,0.753,0.697,0.693,0.650,0.760,0.763,0.717,(0.6389)+(-0.0010)Gln+(-0.0068)Pro+(0.0040)Orn+(0.1552)Ile+(-0.0914)Leu;0.717,0.756,0.733,0.702,0.773,0.764,0.710,0.737,(2.5997)+(-0.1196)Asn+(-0.1018)Cit+(0.0369)Orn+(0.0135)Ile+(0.0192)Phe;0.717,0.754,0.822,0.853,0.792,0.843,0.785,0.818,(3.5381)+(-0.0999)Asn+(0.0078)Gln+(-0.0055)Ala+(-0.0774)Cit+(-0.0208)Tyr;0.717,0.759,0.740,0.748,0.728,0.750,0.735,0.740,(4.1504)+(-0.0760)Asn+(-0.0684)Cit+(0.0017)Pro+(-0.0483)Tyr+(0.0385)Ile;0.717,0.765,0.745,0.782,0.720,0.804,0.659,0.741,(1.3705)+(0.0362)Ser+(-0.1390)Asn+(0.0031)Gln+(-0.0276)Tyr+(-0.0062)Lys;0.717,0.760,0.755,0.752,0.785,0.796,0.668,0.751,(2.0503)+(0.0041)Gln+(-0.0974)Cit+(0.0057)Pro+(-0.2475)Met+(0.0368)Orn;0.717,0.757,0.754,0.769,0.738,0.798,0.719,0.756,(2.9825)+(0.0156)Thr+(-0.0081)Ala+(0.0128)Pro+(-0.2517)Met+(0.0039)Leu;0.717,0.756,0.704,0.713,0.714,0.776,0.607,0.702,(0.7355)+(0.0406)Ser+(-0.1509)Asn+(-0.0192)Arg+(0.0028)Pro+(0.0155)Orn;0.717,0.754,0.816,0.840,0.792,0.845,0.779,0.814,(3.1296)+(-0.1088)Asn+(0.0022)Gly+(0.0071)Gln+(-0.0066)Ala+(-0.0835)Cit;0.717,0.753,0.788,0.807,0.758,0.818,0.776,0.790,(5.1205)+(-0.0456)Asn+(-0.0061)Ala+(0.0149)Pro+(-0.0089)Val+(-0.1281)Met;0.717,0.758,0.683,0.717,0.620,0.694,0.718,0.687,(-1.8060)+(0.0433)Ser+(-0.0098)Gly+(-

0.0102)Thr+(-0.0812)Tyr+(0.0615)Phe;0.717,0.758,0.749,0.769,0.684,0.803,0.797,0.763,(3.4912)+(-0.0924)Asn+(0.0119)Thr+(-0.0090)Ala+(-0.0430)Tyr+(0.0499)Ile;0.717,0.753,0.714,0.709,0.665,0.766,0.788,0.732,(1.0239)+(-0.0002)Gly+(-0.0168)Thr+(0.0105)Orn+(0.1526)Ile+(-0.0927)Leu;0.717,0.758,0.689,0.746,0.628,0.731,0.634,0.685,(-1.5126)+(0.0267)Ser+(-0.0078)Thr+(-0.0664)Tyr+(-0.0145)Val+(0.0840)Phe;0.717,0.757,0.781,0.812,0.781,0.814,0.673,0.770,(4.8286)+(-0.0749)Asn+(0.0225)Thr+(-0.0100)Val+(-0.1790)Met+(0.0023)Lys;0.717,0.757,0.732,0.703,0.769,0.777,0.700,0.737,(3.1015)+(-0.1205)Asn+(0.0037)Thr+(-0.1028)Cit+(0.0369)Orn+(0.0176)Ile;0.717,0.754,0.717,0.719,0.745,0.796,0.597,0.714,(4.0475)+(-0.1082)Cit+(0.0036)Pro+(-0.0482)Tyr+(0.0581)Orn+(-0.0168)Lys;0.717,0.750,0.739,0.769,0.719,0.728,0.709,0.731,(2.8568)+(-0.0895)Asn+(-0.0623)Tyr+(0.0273)Orn+(-0.0122)Lys+(0.0673)Phe;0.717,0.760,0.737,0.763,0.686,0.816,0.720,0.746,(-1.8560)+(0.0330)Ser+(-0.0094)Thr+(-0.0097)Ala+(-0.0250)Arg+(0.0504)Phe;0.717,0.755,0.786,0.788,0.764,0.815,0.806,0.793,(2.7539)+(-0.0919)Asn+(-0.0083)Ala+(0.0247)Orn+(-0.0117)Lys+(0.0504)Phe;0.717,0.753,0.803,0.824,0.779,0.832,0.775,0.803,(2.3542)+(-0.0700)Asn+(0.0050)Gln+(-0.0047)Ala+(-0.1537)Met+(0.0224)Orn;0.717,0.758,0.755,0.775,0.746,0.854,0.652,0.757,(2.3862)+(0.0284)Ser+(-0.0061)Ala+(-0.0759)Cit+(-0.0163)Tyr+(-0.0102)Lys;0.717,0.748,0.762,0.752,0.763,0.828,0.742,0.771,(2.4451)+(0.0014)Gln+(-0.0038)Thr+(-0.0115)Ala+(-0.1227)Cit+(0.0534)Orn;0.717,0.761,0.697,0.681,0.608,0.806,0.844,0.735,(-3.0421)+(0.0361)Ser+(-0.0223)Thr+(-0.0131)Ala+(0.0524)Ile+(0.0174)Phe;0.717,0.750,0.727,0.738,0.698,0.803,0.703,0.736,(-0.8653)+(0.0265)Ser+(-0.0100)Ala+(-0.0855)Cit+(-0.0081)Val+(0.0646)Phe;0.717,0.755,0.780,0.810,0.782,0.816,0.670,0.769,(4.9273)+(-0.0718)Asn+(-0.0004)Gly+(0.0232)Thr+(-0.0095)Val+(-0.1754)Met;0.717,0.754,0.739,0.775,0.696,0.817,0.678,0.741,(-1.1427)+(0.0290)Ser+(-0.0078)Ala+(-0.0285)

Arg+(-0.0135)Val+(0.0693)Phe;0.717,0.756,0.765,0.764,0.737,0.823,0.782,0.777,(5.1379)+(-0.1335)Asn+(-0.0451)Val+(0.0420)Orn+(-0.0040)Lys+(0.0589)Leu;0.717,0.761,0.797,0.795,0.769,0.838,0.830,0.808,(3.9880)+(-0.0034)Ala+(0.0137)Tyr+(-0.0366)Val+(-0.2229)Met+(0.0657)Leu;0.717,0.759,0.737,0.736,0.732,0.751,0.742,0.740,(2.5561)+(-0.0085)Arg+(0.0034)Pro+(-0.0174)Tyr+(-0.2475)Met+(0.0503)Ile;0.717,0.757,0.746,0.751,0.738,0.799,0.711,0.750,(1.9321)+(0.0497)Ser+(-0.1219)Asn+(-0.0066)Gly+(-0.0111)Arg+(-0.0085)Lys;0.717,0.753,0.780,0.812,0.749,0.815,0.734,0.777,(5.1980)+(-0.0947)Asn+(-0.0035)Ala+(-0.0238)Tyr+(-0.0120)Val+(0.0407)Orn;0.717,0.752,0.755,0.779,0.782,0.801,0.600,0.740,(4.2714)+(0.0007)Gly+(0.0225)Thr+(-0.0668)Cit+(-0.0047)Val+(-0.2384)Met;0.716,0.751,0.756,0.752,0.787,0.804,0.670,0.753,(4.5073)+(-0.1061)Asn+(-0.1017)Cit+(0.0022)Pro+(0.0512)Orn+(-0.0147)Leu;0.716,0.751,0.774,0.790,0.738,0.826,0.768,0.780,(4.9344)+(-0.1060)Asn+(-0.0071)Ala+(0.0116)Pro+(-0.0154)Val+(0.0335)Orn;0.716,0.753,0.764,0.789,0.761,0.771,0.697,0.754,(1.9479)+(-0.0755)Asn+(0.0051)Gln+(0.0166)Thr+(0.0056)Pro+(-0.2505)Met;0.716,0.756,0.726,0.724,0.716,0.746,0.735,0.730,(2.0153)+(0.0030)Pro+(-0.0198)Tyr+(-0.2617)Met+(0.0086)Orn+(0.0481)Ile;0.716,0.758,0.686,0.674,0.670,0.763,0.694,0.700,(-0.9382)+(0.0418)Ser+(-0.1814)Asn+(0.0014)Gln+(-0.0021)Pro+(0.0316)Ile;0.716,0.753,0.783,0.823,0.746,0.760,0.769,0.775,(3.0028)+(-0.0901)Asn+(-0.0053)Ala+(-0.0491)Tyr+(-0.0120)Leu+(0.0902)Phe;0.716,0.752,0.716,0.739,0.718,0.795,0.596,0.712,(3.4996)+(-0.0997)Cit+(0.0061)Pro+(-0.0533)Tyr+(-0.0126)Val+(0.0543)Orn;0.716,0.750,0.730,0.728,0.705,0.802,0.737,0.743,(-0.8869)+(0.0307)Ser+(-0.0030)Gly+(-0.0116)Ala+(-0.0907)Cit+(0.0508)Phe;0.716,0.756,0.788,0.791,0.778,0.807,0.790,0

.792,(5.8498)+(-0.0556)Asn+(-0.0415)Cit+(-0.0345)Val+(-0.1462)Met+(0.0595)Leu;0.716,0.754,0.789,0.813,0.758,0.819,0.766,0.789,(2.2691)+(0.

0046)Gln+(-0.0074)Ala+(-0.0123)Arg+(0.0133)Pro+(-0.2060)Met;0.716,0.758,0.744,0.733,0.783,0.792,0.655,0.741,(3.4565)+(-0.0930)Cit+(-0.0018)Arg+(0.0058)Pro+(-0.2219)Met+(0.0425)Orn;0.716,0.756,0.726,0.743,0.728,0.791,0.630,0.723,(0.3612)+(0.0385)Ser+(-0.1583)Asn+(0.0024)Gln+(-0.0197)Arg+(0.0155)Orn;0.716,0.753,0.765,0.769,0.740,0.822,0.766,0.774,(5.2768)+(-0.1295)Asn+(-0.0104)Arg+(-0.0451)Val+(0.0435)Orn+(0.0569)Leu;0.716,0.757,0.732,0.741,0.766,0.765,0.613,0.721,(3.5881)+(0.0221)Thr+(-0.0754)Cit+(0.0074)Pro+(-0.2900)Met+(0.0035)Leu;0.716,0.756,0.659,0.710,0.633,0.718,0.535,0.649,(-1.8773)+(0.0327)Ser+(-0.0034)Thr+(-0.0289)Arg+(-0.0721)Tyr+(0.0690)Phe;0.716,0.754,0.753,0.763,0.747,0.857,0.662,0.757,(1.9990)+(0.0291)Ser+(-0.0072)Ala+(-0.0801)Cit+(0.0011)Val+(-0.0126)Lys;0.716,0.753,0.655,0.664,0.598,0.718,0.706,0.671,(-0.9531)+(0.0371)Ser+(-0.0104)Gly+(-0.0794)Tyr+(0.0043)Orn+(0.0341)Ile;0.716,0.751,0.729,0.750,0.736,0.801,0.609,0.724,(3.5841)+(-0.0007)Thr+(-0.1021)Cit+(-0.0466)Tyr+(-0.0112)Val+(0.0572)Orn;0.716,0.755,0.743,0.740,0.785,0.797,0.622,0.736,(3.3028)+(0.0022)Gly+(-0.0987)Cit+(-0.0016)Arg+(-0.2027)Met+(0.0459)Orn;0.716,0.754,0.756,0.772,0.689,0.807,0.816,0.771,(3.2130)+(-0.0773)Asn+(0.0016)Gly+(-0.0089)Ala+(-0.0351)Tyr+(0.0524)Ile;0.716,0.753,0.740,0.794,0.676,0.763,0.717,0.738,(0.9460)+(-0.0064)Ala+(-0.0586)Tyr+(-0.0151)Val+(0.0280)Orn+(0.0799)Phe;0.716,0.755,0.636,0.684,0.614,0.698,0.511,0.627,(-1.9157)+(0.0317)Ser+(-0.0321)Arg+(0.0052)Pro+(-0.0797)Tyr+(0.0658)Phe;0.716,0.757,0.742,0.744,0.776,0.796,0.623,0.735,(3.5985)+(0.0016)Gly+(-0.1000)Cit+(-0.0172)Tyr+(-0.1752)Met+(0.0485)Orn;0.716,0.754,0.731,0.731,0.727,0.755,0.719,0.733,(2.1314)+(0.0022)Gly+(-0.0092)Arg+(-0.0125)Tyr+(-0.2531)Met+(0.0555)Ile;0.715,0.748,0.781,0.785,0.746,0.807,0.823,0.790,(2.9109)+(-0.0906)Asn+(-0.0104)Ala+(0.0094)Pro+(-0.0089)Lys+(0.0517)Phe;0.715,0.753,0.746,0.752,0.715,0.780,0.769,0.754,(5.3093)+(-0.1630)Asn+(0

.0174)Thr+(0.0063)Pro+(-0.0465)Val+(0.0600)Leu;0.715,0.753,0.734,0.749,0.771,0.771,0.588,0.720,(3.4078)+(0.0017)Gly+(0.0230)Thr+(-0.0769)Cit+(-0.2791)Met+(0.0078)Leu;0.715,0.753,0.760,0.770,0.734,0.809,0.752,0.766,(3.0215)+(-0.0082)Ala+(0.0128)Pro+(-0.2060)Met+(0.0210)Orn+(-0.0002)Leu;0.715,0.756,0.762,0.758,0.795,0.808,0.670,0.758,(4.6322)+(-0.1012)Asn+(-0.1002)Cit+(-0.0034)Arg+(0.0527)Orn+(-0.0136)Leu;0.715,0.755,0.758,0.799,0.738,0.795,0.665,0.749,(5.2509)+(-0.1201)Asn+(0.0113)Thr+(-0.0332)Tyr+(-0.0147)Val+(0.0365)Orn;0.715,0.754,0.779,0.768,0.776,0.810,0.790,0.786,(2.1085)+(-0.1085)Asn+(0.0074)Gln+(-0.0864)Cit+(-0.0169)Lys+(0.0399)Ile;0.715,0.758,0.647,0.641,0.619,0.750,0.650,0.665,(-0.7814)+(0.0347)Ser+(-0.0072)Thr+(-0.0463)Tyr+(-0.0231)Lys+(0.0545)Ile;0.715,0.752,0.744,0.792,0.717,0.689,0.709,0.727,(2.9052)+(-0.1011)Asn+(0.0074)Pro+(-0.0653)Tyr+(-0.0210)Leu+(0.0890)Phe;0.715,0.760,0.724,0.754,0.706,0.791,0.636,0.722,(1.9016)+(0.0393)Ser+(-0.1255)Asn+(-0.0275)Tyr+(-0.0064)Lys+(0.0030)Leu;0.715,0.756,0.726,0.716,0.718,0.775,0.732,0.735,(0.5705)+(0.0495)Ser+(-0.1540)Asn+(-0.0057)Gly+(-0.0080)Thr+(0.0170)Orn;0.715,0.752,0.731,0.753,0.736,0.804,0.607,0.725,(3.2630)+(0.0008)Gln+(-0.1029)Cit+(-0.0481)Tyr+(-0.0112)Val+(0.0558)Orn;0.715,0.752,0.762,0.785,0.782,0.793,0.634,0.749,(2.2645)+(0.0000)Gly+(0.0048)Gln+(0.0194)Thr+(-0.0782)Cit+(-0.2750)Met;0.715,0.749,0.630,0.646,0.615,0.725,0.552,0.635,(-0.5306)+(0.0325)Ser+(-0.0019)Gln+(-0.0274)Arg+(-0.0608)Tyr+(0.0433)Ile;0.715,0.763,0.741,0.781,0.711,0.789,0.660,0.735,(1.2775)+(0.0357)Ser+(-0.1495)Asn+(0.0028)Gln+(-0.0317)Tyr+(-0.0013)Leu;0.715,0.759,0.781,0.784,0.762,0.822,0.782,0.788,(3.6713)+(0.0014)Gly+(0.0119)Tyr+(-0.0381)Val+(-0.2480)Met+(0.0654)Leu;0.715,0.758,0.672,0.730,0.620,0.717,0.595,0.666,(-1.3898)+(0.0198)Ser+(-0.0748)Tyr+(-0.0175)Val+(0.0180)Orn+(0.0822)Phe;0.715,0.756,0.726,0.743,0.684,0.838,0.690,0.739,(0.6484)+(0.0309)Ser+(-0.0100)Ala+(-0

.0195)Arg+(0.0118)Pro+(-0.0127)Lys;0.715,0.756,0.776,0.811,0.776,0.812,0.661,0.765,(5.0317)+(-0.0735)Asn+(0.0234)Thr+(-0.0091)Tyr+(-0.0090)Val+(-0.1611)Met;0.715,0.751,0.781,0.792,0.757,0.809,0.781,0.785,(4.2015)+(-0.0344)Asn+(-0.0076)Ala+(0.0135)Pro+(-0.1567)Met+(-0.0003)Lys;0.715,0.758,0.750,0.738,0.693,0.818,0.856,0.776,(2.0866)+(-0.0002)Thr+(-0.0125)Ala+(0.0057)Pro+(-0.0196)Lys+(0.0528)Ile;0.715,0.757,0.793,0.800,0.759,0.833,0.815,0.802,(4.1325)+(-0.0031)Ala+(-0.0350)Val+(-0.2034)Met+(0.0007)Lys+(0.0631)Leu;0.715,0.753,0.786,0.816,0.747,0.822,0.763,0.787,(2.7044)+(0.0039)Gln+(-0.0066)Ala+(0.0148)Pro+(-0.0079)Val+(-0.2048)Met;0.715,0.749,0.720,0.720,0.665,0.768,0.799,0.738,(0.8383)+(-0.0003)Gly+(0.0009)Gln+(-0.0160)Thr+(0.1548)Ile+(-0.0925)Leu;0.715,0.753,0.768,0.785,0.734,0.815,0.758,0.773,(1.9947)+(0.0029)Gln+(-0.0081)Ala+(0.0125)Pro+(-0.2243)Met+(0.0172)Orn;0.715,0.757,0.762,0.792,0.758,0.738,0.710,0.749,(3.5522)+(-0.0769)Asn+(-0.0640)Cit+(-0.0538)Tyr+(-0.0073)Lys+(0.0811)Phe;0.715,0.759,0.793,0.795,0.770,0.814,0.818,0.799,(5.2128)+(-0.0615)Asn+(0.0089)Tyr+(-0.0400)Val+(-0.1719)Met+(0.0667)Leu;0.715,0.759,0.631,0.618,0.613,0.746,0.620,0.649,(-0.0910)+(0.0349)Ser+(-0.0022)Gln+(-0.0495)Tyr+(-0.0237)Lys+(0.0554)Ile;0.715,0.751,0.800,0.818,0.792,0.818,0.760,0.797,(2.2666)+(0.0062)Gln+(-0.0058)Ala+(-0.0797)Cit+(-0.1853)Met+(0.0105)Leu;0.715,0.755,0.732,0.732,0.729,0.755,0.724,0.735,(2.3860)+(-0.0108)Arg+(-0.0179)Tyr+(-0.2398)Met+(0.0130)Orn+(0.0497)Ile;0.715,0.754,0.744,0.744,0.738,0.755,0.751,0.747,(2.8538)+(-0.0182)Asn+(-0.0068)Arg+(-0.0165)Tyr+(-0.2220)Met+(0.0524)Ile;0.715,0.752,0.757,0.752,0.788,0.807,0.666,0.753,(4.5368)+(-0.1135)Asn+(0.0047)Thr+(-0.1030)Cit+(0.0504)Orn+(-0.0136)Leu;0.715,0.751,0.784,0.804,0.750,0.817,0.777,0.787,(2.2654)+(0.0040)Gln+(-0.0076)Ala+(0.0134)Pro+(-0.2093)Met+(-0.0034)Lys;0.715,0.753,0.825,0.846,0.803,0.851,0.798,0.825,(3.4284)+(-0.0983)Asn+(0.0077)Gln+(-0.0062)Al

a+(-0.0802)Cit+(-0.0047)Lys;0.715,0.752,0.728,0.730,0.758,0.803,0.603,0.724,(4.1408)+(-0.0001)Gly+(-0.1092)Cit+(-0.0438)Tyr+(0.0599)Orn+(-0.0164)Lys;0.715,0.755,0.806,0.838,0.748,0.823,0.828,0.809,(3.9442)+(-0.1437)Asn+(0.0062)Gln+(-0.0213)Tyr+(-0.0379)Val+(0.0540)Leu;0.715,0.755,0.751,0.764,0.742,0.794,0.704,0.751,(2.0324)+(0.0478)Ser+(-0.1333)Asn+(-0.0063)Gly+(-0.0147)Arg+(-0.0064)Leu;0.715,0.750,0.785,0.786,0.765,0.826,0.795,0.793,(5.1230)+(-0.0746)Asn+(-0.0105)Ala+(-0.0778)Cit+(0.0053)Arg+(0.0126)Pro;0.715,0.750,0.772,0.808,0.729,0.770,0.765,0.768,(2.5804)+(-0.0949)Asn+(0.0017)Gly+(-0.0065)Ala+(-0.0485)Tyr+(0.0783)Phe;0.715,0.756,0.679,0.664,0.668,0.755,0.685,0.693,(-0.9306)+(0.0417)Ser+(-0.1829)Asn+(0.0011)Gln+(0.0031)Orn+(0.0277)Ile;0.715,0.754,0.749,0.769,0.745,0.805,0.661,0.745,(3.8738)+(-0.0144)Arg+(0.0099)Pro+(-0.0132)Val+(-0.1997)Met+(0.0334)Orn;0.715,0.760,0.666,0.663,0.610,0.765,0.720,0.690,(-1.5994)+(0.0176)Ser+(-0.0072)Pro+(-0.0048)Orn+(0.1562)Ile+(-0.0898)Leu;0.715,0.757,0.738,0.748,0.772,0.781,0.611,0.728,(4.0580)+(0.0226)Thr+(-0.0733)Cit+(0.0079)Pro+(-0.2659)Met+(-0.0046)Lys;0.714,0.754,0.690,0.706,0.700,0.785,0.557,0.687,(1.7089)+(0.0298)Ser+(-0.0764)Cit+(0.0077)Pro+(-0.0416)Tyr+(-0.0150)Lys;0.714,0.751,0.721,0.721,0.713,0.744,0.720,0.725,(1.7458)+(0.0014)Gly+(-0.0160)Tyr+(-0.2652)Met+(0.0077)Orn+(0.0525)Ile;0.714,0.755,0.748,0.773,0.734,0.839,0.643,0.747,(1.9723)+(0.0267)Ser+(-0.0067)Ala+(-0.0714)Cit+(-0.0089)Arg+(-0.0234)Tyr;0.714,0.754,0.744,0.723,0.785,0.770,0.696,0.743,(2.7881)+(-0.1198)Asn+(-0.1028)Cit+(-0.0018)Pro+(0.0419)Orn+(0.0299)Phe;0.714,0.758,0.741,0.751,0.728,0.750,0.739,0.742,(4.1128)+(-0.0771)Asn+(-0.0702)Cit+(0.0020)Arg+(-0.0471)Tyr+(0.0405)Ile;0.714,0.759,0.713,0.717,0.700,0.752,0.702,0.718,(2.3336)+(-0.0778)Cit+(-0.0630)Tyr+(-0.0204)Lys+(0.0443)Ile+(0.0588)Phe;0.714,0.755,0.713,0.725,0.715,0.787,0.623,0.713,(1.3300)+(0.0419)Ser+(-0.1293)Asn+(-0.0137)Arg+(0.0051

)Pro+(-0.0086)Lys;0.714,0.756,0.742,0.778,0.703,0.816,0.678,0.744,(-1.4934)+(0.0289)Ser+(-0.0092)Ala+(-0.0295)Arg+(-0.0119)Leu+(0.0603)Phe;0.714,0.758,0.635,0.628,0.613,0.746,0.617,0.651,(-0.5727)+(0.0305)Ser+(-0.0523)Tyr+(0.0112)Orn+(-0.0263)Lys+(0.0510)Ile;0.714,0.755,0.781,0.786,0.798,0.822,0.698,0.776,(3.0919)+(-0.1334)Asn+(0.0055)Gln+(-0.1069)Cit+(0.0467)Orn+(-0.0134)Leu;0.714,0.753,0.773,0.794,0.764,0.811,0.708,0.770,(3.7480)+(-0.0613)Asn+(0.0167)Thr+(-0.0048)Ala+(-0.1805)Met+(0.0205)Orn;0.714,0.754,0.743,0.772,0.670,0.783,0.792,0.754,(1.2946)+(-0.0103)Ala+(-0.0186)Arg+(-0.0534)Tyr+(0.0442)Ile+(0.0458)Phe;0.714,0.754,0.748,0.749,0.780,0.795,0.642,0.742,(3.8784)+(-0.0980)Cit+(-0.0191)Tyr+(-0.1654)Met+(0.0499)Orn+(-0.0019)Leu;0.714,0.751,0.780,0.790,0.755,0.807,0.782,0.784,(4.1013)+(-0.0338)Asn+(-0.0077)Ala+(0.0133)Pro+(-0.1613)Met+(0.0017)Leu;0.714,0.758,0.789,0.797,0.760,0.810,0.816,0.796,(5.2986)+(-0.0634)Asn+(0.0018)Arg+(-0.0391)Val+(-0.1583)Met+(0.0656)Leu;0.714,0.754,0.711,0.706,0.660,0.765,0.789,0.730,(0.8225)+(-0.0020)Gly+(-0.0003)Gln+(-0.0066)Pro+(0.1556)Ile+(-0.0916)Leu;0.714,0.756,0.650,0.677,0.606,0.665,0.661,0.652,(-1.0488)+(0.0423)Ser+(-0.0099)Gly+(-0.0027)Gln+(-0.0875)Tyr+(0.0638)Phe;0.714,0.750,0.779,0.813,0.739,0.773,0.778,0.776,(3.0542)+(-0.0814)Asn+(-0.0061)Ala+(-0.0472)Tyr+(-0.0055)Lys+(0.0796)Phe;0.714,0.753,0.754,0.767,0.749,0.856,0.656,0.757,(2.0683)+(0.0292)Ser+(-0.0069)Ala+(-0.0760)Cit+(-0.0034)Arg+(-0.0114)Lys;0.714,0.755,0.653,0.628,0.575,0.801,0.773,0.694,(-1.1348)+(0.0306)Ser+(-0.0047)Gln+(-0.0149)Ala+(0.0062)Pro+(0.0467)Ile;0.714,0.749,0.781,0.803,0.745,0.811,0.778,0.784,(2.1054)+(-0.0003)Gly+(0.0039)Gln+(-0.0077)Ala+(0.0133)Pro+(-0.2193)Met;0.714,0.748,0.776,0.782,0.721,0.824,0.837,0.791,(5.4362)+(-0.1098)Asn+(-0.0071)Ala+(0.0120)Pro+(-0.0378)Val+(0.0538)Leu;0.714,0.757,0.759,0.761,0.792,0.803,0.652,0.752,(2.0949)+(0.0010)Gly+(0.0039)Gln+(-0.1006)Cit+(-0.2258)Met+(

0.0405)Orn;0.714,0.754,0.740,0.741,0.726,0.795,0.726,0.747,(1.7360)+(0.0492)Ser+(-0.1304)Asn+(-0.0067)Gly+(0.0002)Thr+(-0.0105)Lys;0.714,0.751,0.802,0.838,0.772,0.777,0.789,0.794,(1.7012)+(-0.1588)Asn+(0.0016)Gly+(0.0049)Gln+(-0.0199)Val+(0.0744)Phe;0.714,0.755,0.659,0.709,0.620,0.707,0.578,0.653,(-0.6731)+(0.0281)Ser+(-0.0033)Gln+(-0.0693)Tyr+(-0.0151)Val+(0.0896)Phe;0.714,0.755,0.729,0.734,0.759,0.804,0.599,0.724,(4.1709)+(-0.1092)Cit+(-0.0432)Tyr+(0.0603)Orn+(-0.0158)Lys+(-0.0020)Leu;0.714,0.751,0.772,0.800,0.758,0.802,0.702,0.766,(4.9047)+(-0.0733)Asn+(-0.0143)Tyr+(-0.0122)Val+(-0.0929)Met+(0.0391)Orn;0.714,0.751,0.783,0.796,0.760,0.809,0.775,0.785,(4.3225)+(-0.0307)Asn+(-0.0075)Ala+(-0.0051)Arg+(0.0135)Pro+(-0.1530)Met;0.714,0.750,0.740,0.765,0.701,0.771,0.736,0.743,(2.2794)+(-0.0114)Ala+(-0.0807)Cit+(0.0125)Pro+(-0.0551)Tyr+(0.0682)Phe;0.714,0.755,0.684,0.723,0.616,0.766,0.663,0.692,(-1.0319)+(0.0288)Ser+(-0.0028)Gln+(-0.0082)Ala+(-0.0603)Tyr+(0.0719)Phe;0.714,0.758,0.727,0.739,0.720,0.797,0.660,0.729,(0.9969)+(0.0397)Ser+(-0.1520)Asn+(-0.0070)Thr+(0.0211)Orn+(-0.0083)Leu;0.714,0.756,0.754,0.766,0.741,0.788,0.726,0.755,(0.6344)+(0.0464)Ser+(-0.1552)Asn+(-0.0064)Gly+(0.0036)Gln+(-0.0180)Arg;0.714,0.753,0.767,0.790,0.787,0.809,0.632,0.754,(2.5865)+(0.0051)Gln+(0.0206)Thr+(-0.0778)Cit+(-0.2553)Met+(-0.0061)Lys;0.714,0.753,0.741,0.769,0.725,0.787,0.668,0.737,(3.5285)+(0.0105)Pro+(-0.0150)Tyr+(-0.0126)Val+(-0.1996)Met+(0.0299)Orn;0.714,0.755,0.756,0.778,0.768,0.725,0.696,0.742,(1.7833)+(-0.0617)Cit+(-0.0260)Tyr+(-0.2256)Met+(-0.0072)Leu+(0.1065)Phe;0.714,0.753,0.804,0.827,0.750,0.828,0.841,0.812,(3.6879)+(-0.1557)Asn+(0.0004)Gly+(0.0058)Gln+(-0.0410)Val+(0.0559)Leu;0.714,0.752,0.764,0.758,0.701,0.834,0.865,0.789,(1.5029)+(-0.0003)Gly+(0.0018)Gln+(-0.0113)Ala+(-0.0210)Lys+(0.0570)Ile;0.714,0.758,0.697,0.681,0.610,0.810,0.837,0.735,(-2.5143)+(0.0354)Ser+(-0.022

3)Thr+(-0.0127)Ala+(0.0051)Orn+(0.0548)Ile;0.714,0.752,0.780,0.807,0.774,0.812,0.699,0.773,(4.1094)+(-0.0587)Asn+(0.0000)Gly+(0.0214)Thr+(-0.0042)Ala+(-0.1850)Met;0.714,0.752,0.757,0.767,0.726,0.796,0.768,0.764,(5.2391)+(-0.1610)Asn+(0.0008)Gly+(0.0184)Thr+(-0.0457)Val+(0.0632)Leu;0.714,0.757,0.650,0.701,0.630,0.715,0.509,0.639,(-1.8226)+(0.0300)Ser+(-0.0324)Arg+(-0.0764)Tyr+(0.0119)Orn+(0.0652)Phe;0.714,0.754,0.742,0.744,0.727,0.796,0.728,0.749,(1.7941)+(0.0491)Ser+(-0.1302)Asn+(-0.0067)Gly+(-0.0100)Lys+(-0.0010)Leu;0.714,0.756,0.728,0.751,0.726,0.800,0.622,0.725,(1.6163)+(0.0404)Ser+(-0.1285)Asn+(0.0016)Thr+(-0.0124)Arg+(-0.0073)Lys;0.713,0.757,0.641,0.635,0.616,0.748,0.632,0.658,(-0.5613)+(0.0316)Ser+(-0.0004)Pro+(-0.0505)Tyr+(-0.0250)Lys+(0.0543)Ile;0.713,0.755,0.727,0.784,0.694,0.747,0.626,0.713,(1.5942)+(-0.0244)Arg+(-0.0642)Tyr+(-0.0182)Val+(0.0346)Orn+(0.0812)Phe;0.713,0.748,0.779,0.816,0.739,0.769,0.772,0.774,(2.9696)+(-0.0813)Asn+(-0.0063)Ala+(-0.0082)Arg+(-0.0481)Tyr+(0.0781)Phe;0.713,0.746,0.793,0.804,0.769,0.834,0.781,0.797,(5.9127)+(-0.0739)Asn+(-0.0085)Ala+(-0.0636)Cit+(0.0139)Pro+(-0.0078)Val;0.713,0.750,0.776,0.810,0.784,0.790,0.657,0.760,(2.2963)+(-0.0718)Asn+(0.0061)Gln+(0.0217)Thr+(-0.0175)Arg+(-0.2261)Met;0.713,0.760,0.741,0.774,0.733,0.709,0.696,0.728,(3.2307)+(-0.0900)Asn+(-0.0656)Cit+(0.0050)Pro+(-0.0634)Tyr+(0.0729)Phe;0.713,0.758,0.759,0.765,0.785,0.801,0.660,0.753,(2.4505)+(0.0040)Gln+(-0.1005)Cit+(-0.0180)Tyr+(-0.1947)Met+(0.0436)Orn;0.713,0.751,0.756,0.780,0.784,0.802,0.605,0.742,(4.4537)+(0.0234)Thr+(-0.0661)Cit+(-0.0044)Val+(-0.2327)Met+(-0.0020)Lys;0.713,0.755,0.739,0.746,0.732,0.779,0.704,0.740,(1.4538)+(0.0487)Ser+(-0.1378)Asn+(-0.0059)Gly+(-0.0012)Thr+(-0.0148)Arg;0.713,0.752,0.771,0.790,0.747,0.810,0.747,0.773,(3.6901)+(0.0013)Gly+(-0.0077)Ala+(-0.0079)Arg+(0.0142)Pro+(-0.1832)Met;0.713,0.754,0.761,0.768,0.732,0.807,0.771,0.770,(5.4792)+(-0.1516)Asn+(0.0207)Thr+(-

0.0448)Val+(-0.0054)Lys+(0.0639)Leu;0.713,0.753,0.818,0.838,0.794,0.839,0.802,0.818,(3.1366)+(-0.1065)Asn+(0.0074)Gln+(-0.0071)Ala+(-0.0822)Cit+(0.0027)Leu;0.713,0.753,0.788,0.807,0.736,0.808,0.829,0.795,(3.8298)+(-0.1582)Asn+(0.0054)Gln+(0.0062)Pro+(-0.0420)Val+(0.0529)Leu;0.713,0.757,0.789,0.799,0.760,0.804,0.814,0.794,(5.2415)+(-0.0674)Asn+(-0.0402)Val+(-0.1639)Met+(0.0041)Lys+(0.0654)Leu;0.713,0.750,0.577,0.587,0.547,0.655,0.556,0.586,(-1.7183)+(0.0326)Ser+(-0.0049)Gln+(-0.0851)Tyr+(0.0322)Ile+(0.0455)Phe;0.713,0.756,0.743,0.742,0.734,0.800,0.723,0.750,(1.5198)+(0.0455)Ser+(-0.1590)Asn+(-0.0063)Gly+(0.0187)Orn+(-0.0104)Leu;0.713,0.754,0.769,0.769,0.712,0.833,0.842,0.789,(2.4542)+(-0.1025)Asn+(0.0021)Gly+(0.0046)Thr+(-0.0106)Ala+(0.0456)Ile;0.713,0.748,0.754,0.781,0.734,0.800,0.689,0.751,(2.3590)+(0.0028)Gln+(0.0097)Pro+(-0.0127)Val+(-0.2389)Met+(0.0245)Orn;0.713,0.753,0.727,0.729,0.757,0.804,0.603,0.723,(4.1109)+(-0.1106)Cit+(0.0015)Arg+(-0.0439)Tyr+(0.0601)Orn+(-0.0168)Lys;0.713,0.756,0.793,0.801,0.761,0.833,0.813,0.802,(4.2321)+(-0.0031)Ala+(-0.0017)Arg+(-0.0345)Val+(-0.1984)Met+(0.0626)Leu;0.713,0.749,0.650,0.711,0.592,0.694,0.579,0.644,(-1.3942)+(0.0222)Ser+(0.0066)Pro+(-0.0773)Tyr+(-0.0169)Val+(0.0805)Phe;0.713,0.755,0.660,0.639,0.582,0.809,0.772,0.700,(-1.7153)+(0.0311)Ser+(-0.0046)Gln+(-0.0142)Ala+(0.0482)Ile+(0.0165)Phe;0.713,0.751,0.762,0.766,0.746,0.846,0.722,0.770,(2.2336)+(0.0358)Ser+(-0.0053)Gly+(-0.0068)Ala+(-0.0719)Cit+(-0.0128)Lys;0.713,0.747,0.773,0.796,0.743,0.814,0.748,0.775,(4.0810)+(0.0007)Gly+(-0.0067)Ala+(0.0155)Pro+(-0.0076)Val+(-0.1789)Met;0.713,0.760,0.751,0.784,0.741,0.804,0.646,0.744,(0.9203)+(0.0371)Ser+(-0.1501)Asn+(0.0034)Gln+(-0.0174)Arg+(-0.0061)Leu;0.713,0.756,0.742,0.794,0.729,0.689,0.670,0.720,(2.7992)+(-0.1299)Asn+(0.0179)Thr+(-0.0702)Tyr+(-0.0197)Leu+(0.0963)Phe;0.713,0.753,0.725,0.719,0.714,0.785,0.719,0.734,(1.4867)+(0.0498)Ser+(-0.1328)Asn+(-0.0066)Gly+(0

.0043)Pro+(-0.0120)Lys;0.713,0.749,0.779,0.798,0.743,0.811,0.777,0.78
2,(1.9950)+(0.0038)Gln+(-0.0079)Ala+(0.0131)Pro+(-0.2240)Met+(0.0026)
Leu;0.713,0.751,0.720,0.766,0.685,0.740,0.657,0.712,(1.4040)+(-0.0649
)Tyr+(-0.0150)Val+(0.0323)Orn+(-0.0130)Lys+(0.0803)Phe;0.713,0.751,0.
743,0.776,0.698,0.774,0.728,0.744,(1.6301)+(-0.0074)Ala+(-0.0545)Tyr+
(0.0272)Orn+(-0.0160)Lys+(0.0673)Phe;0.713,0.753,0.760,0.787,0.778,0.
791,0.626,0.746,(2.4281)+(0.0048)Gln+(0.0198)Thr+(-0.0774)Cit+(-0.009
0)Tyr+(-0.2609)Met;0.713,0.751,0.784,0.811,0.782,0.791,0.715,0.775,(2
.1393)+(-0.0797)Asn+(-0.0010)Gly+(0.0056)Gln+(0.0186)Thr+(-0.2320)Met
;0.713,0.753,0.764,0.757,0.700,0.832,0.864,0.788,(1.4760)+(0.0017)Gln
+(-0.0003)Thr+(-0.0113)Ala+(-0.0210)Lys+(0.0573)Ile;0.713,0.751,0.781
,0.810,0.779,0.798,0.696,0.771,(2.3100)+(-0.0774)Asn+(0.0056)Gln+(0.0
190)Thr+(-0.2180)Met+(-0.0047)Lys;0.713,0.749,0.770,0.803,0.747,0.797
,0.708,0.764,(5.2472)+(-0.1005)Asn+(-0.0007)Gly+(-0.0296)Tyr+(-0.0141
)Val+(0.0410)Orn;0.713,0.748,0.776,0.797,0.767,0.809,0.713,0.771,(4.6
410)+(-0.0719)Asn+(-0.0129)Val+(-0.1203)Met+(0.0369)Orn+(0.0013)Lys;0
.713,0.748,0.775,0.797,0.766,0.808,0.711,0.771,(4.6531)+(-0.0708)Asn+
(0.0001)Gly+(-0.0126)Val+(-0.1180)Met+(0.0373)Orn;0.713,0.760,0.744,0
.773,0.735,0.804,0.648,0.740,(0.8172)+(0.0385)Ser+(-0.1403)Asn+(0.003
3)Gln+(-0.0142)Arg+(-0.0075)Lys;0.713,0.752,0.648,0.679,0.591,0.661,0
.675,0.651,(-1.7197)+(0.0393)Ser+(-0.0111)Gly+(0.0045)Pro+(-0.0951)Ty
r+(0.0568)Phe;0.713,0.750,0.674,0.663,0.627,0.735,0.755,0.695,(-0.328
8)+(-0.0018)Gln+(-0.0017)Orn+(0.1461)Ile+(-0.0960)Leu+(0.0321)Phe;0.7
13,0.756,0.739,0.745,0.668,0.806,0.819,0.760,(2.8486)+(-0.0110)Ala+(0
.0075)Pro+(-0.0383)Tyr+(-0.0154)Lys+(0.0546)Ile;0.713,0.754,0.778,0.7
89,0.753,0.817,0.775,0.784,(3.8668)+(0.0010)Gly+(-0.0365)Val+(-0.2280
)Met+(0.0004)Lys+(0.0632)Leu;0.713,0.750,0.794,0.827,0.771,0.804,0.74
8,0.788,(3.1773)+(-0.0780)Asn+(0.0062)Gln+(0.0102)Pro+(-0.0120)Val+(-

0.1670)Met;0.713,0.749,0.747,0.768,0.736,0.790,0.687,0.745,(3.4504)+(-0.0008)Gly+(0.0099)Pro+(-0.0131)Val+(-0.2188)Met+(0.0294)Orn;0.713,0.755,0.736,0.744,0.760,0.816,0.608,0.732,(3.2153)+(0.0028)Gln+(-0.1124)Cit+(-0.0456)Tyr+(0.0573)Orn+(-0.0182)Lys;0.713,0.752,0.745,0.766,0.780,0.794,0.583,0.731,(4.1141)+(0.0011)Gly+(0.0232)Thr+(-0.0723)Cit+(-0.2409)Met+(-0.0042)Lys;0.713,0.752,0.814,0.851,0.787,0.786,0.792,0.804,(1.8925)+(-0.1433)Asn+(0.0063)Gln+(-0.0152)Arg+(-0.0193)Val+(0.0730)Phe;0.713,0.757,0.732,0.756,0.728,0.800,0.631,0.729,(1.6519)+(0.0407)Ser+(-0.1269)Asn+(-0.0121)Arg+(-0.0065)Lys+(-0.0012)Leu;0.712,0.753,0.752,0.747,0.791,0.798,0.653,0.747,(3.6458)+(-0.0955)Cit+(-0.0019)Arg+(-0.1941)Met+(0.0472)Orn+(-0.0022)Leu;0.712,0.756,0.764,0.766,0.795,0.802,0.668,0.758,(2.1857)+(0.0040)Gln+(-0.0994)Cit+(-0.2227)Met+(0.0410)Orn+(-0.0011)Leu;0.712,0.756,0.753,0.787,0.746,0.718,0.703,0.739,(3.2449)+(-0.0904)Asn+(-0.0670)Cit+(0.0021)Arg+(-0.0584)Tyr+(0.0764)Phe;0.712,0.754,0.641,0.630,0.590,0.730,0.709,0.665,(-3.0330)+(0.0184)Ser+(-0.0120)Orn+(0.1472)Ile+(-0.0955)Leu+(0.0338)Phe;0.712,0.751,0.744,0.767,0.733,0.792,0.676,0.742,(3.3847)+(0.0099)Pro+(-0.0127)Val+(-0.2176)Met+(0.0292)Orn+(-0.0011)Lys;0.712,0.756,0.757,0.761,0.734,0.807,0.755,0.764,(0.9409)+(0.0475)Ser+(-0.1451)Asn+(-0.0073)Gly+(0.0034)Gln+(-0.0114)Lys;0.712,0.751,0.821,0.842,0.797,0.841,0.799,0.820,(3.2398)+(-0.1057)Asn+(0.0074)Gln+(-0.0067)Ala+(-0.0806)Cit+(-0.0006)Arg;0.712,0.760,0.712,0.716,0.710,0.797,0.643,0.717,(0.9881)+(0.0410)Ser+(-0.1364)Asn+(-0.0043)Thr+(0.0227)Orn+(-0.0115)Lys;0.712,0.753,0.726,0.703,0.743,0.829,0.677,0.738,(3.4171)+(-0.1036)Cit+(-0.0301)Val+(0.0619)Orn+(-0.0201)Lys+(0.0409)Leu;0.712,0.753,0.760,0.763,0.749,0.795,0.752,0.765,(5.8448)+(-0.1500)Asn+(0.0201)Thr+(-0.0482)Cit+(-0.0406)Val+(0.0573)Leu;0.712,0.749,0.799,0.825,0.802,0.811,0.716,0.789,(2.5847)+(-0.0754)Asn+(0.0020)Gly+(0.0079)Gln+(-0.0766)Cit+(-0.1546)Me

t;0.712,0.749,0.778,0.793,0.743,0.771,0.815,0.780,(3.9630)+(-0.1356)Asn+(-0.0058)Arg+(-0.0400)Val+(0.0451)Leu+(0.0656)Phe;0.712,0.748,0.802,0.828,0.772,0.797,0.802,0.800,(3.4878)+(-0.1049)Asn+(-0.0049)Ala+(-0.0078)Arg+(-0.0154)Val+(0.0816)Phe;0.712,0.754,0.670,0.725,0.608,0.720,0.618,0.668,(-1.3053)+(0.0225)Ser+(-0.0709)Tyr+(-0.0250)Val+(0.0202)Leu+(0.0762)Phe;0.712,0.752,0.780,0.805,0.775,0.812,0.698,0.773,(4.2319)+(-0.0569)Asn+(0.0219)Thr+(-0.0041)Ala+(-0.1799)Met+(-0.0022)Lys;0.712,0.752,0.753,0.765,0.747,0.857,0.662,0.758,(2.0412)+(0.0291)Ser+(-0.0007)Thr+(-0.0070)Ala+(-0.0784)Cit+(-0.0119)Lys;0.712,0.751,0.791,0.822,0.760,0.761,0.796,0.785,(2.0400)+(-0.1584)Asn+(0.0048)Gln+(0.0056)Pro+(-0.0216)Val+(0.0687)Phe;0.712,0.750,0.773,0.782,0.748,0.810,0.775,0.779,(3.5916)+(-0.0080)Ala+(0.0137)Pro+(-0.1911)Met+(-0.0025)Lys+(0.0042)Leu;0.712,0.750,0.689,0.667,0.602,0.806,0.843,0.730,(-2.0269)+(0.0320)Ser+(-0.0068)Gly+(-0.0153)Ala+(0.0054)Pro+(0.0411)Ile;0.712,0.757,0.766,0.770,0.795,0.806,0.664,0.759,(2.1738)+(0.0045)Gln+(-0.0953)Cit+(-0.0060)Arg+(-0.2

201)Met+(0.0408)Orn;0.712,0.753,0.776,0.792,0.748,0.803,0.772,0.779,(4.4418)+(-0.0369)Asn+(-0.0074)Ala+(0.0139)Pro+(-0.0130)Tyr+(-0.1358)Met;0.712,0.748,0.769,0.784,0.743,0.808,0.758,0.773,(3.5199)+(0.0010)Gly+(-0.0078)Ala+(0.0141)Pro+(-0.1903)Met+(-0.0014)Lys;0.712,0.752,0.767,0.802,0.752,0.803,0.676,0.758,(5.4298)+(-0.0899)Asn+(-0.0128)Arg+(-0.0272)Tyr+(-0.0139)Val+(0.0440)Orn;0.712,0.748,0.769,0.780,0.725,0.802,0.808,0.778,(2.0980)+(-0.1127)Asn+(0.0026)Gly+(-0.0110)Ala+(0.0091)Pro+(0.0486)Phe;0.712,0.754,0.772,0.767,0.720,0.835,0.848,0.792,(2.6423)+(-0.1005)Asn+(0.0039)Thr+(-0.0107)Ala+(0.0097)Orn+(0.0410)Ile;0.712,0.751,0.780,0.808,0.770,0.820,0.697,0.774,(5.8025)+(-0.0911)Asn+(0.0190)Thr+(-0.0060)Ala+(-0.0709)Cit+(-0.0266)Tyr;0.712,0.749,0.762,0.770,0.784,0.737,0.708,0.750,(1.4637)+(-0.0648)Cit+(0.0020)Arg+(-0.2

655)Met+(-0.0067)Leu+(0.0981)Phe;0.712,0.756,0.735,0.763,0.732,0.796,0.625,0.729,(1.6355)+(0.0397)Ser+(-0.1366)Asn+(0.0001)Thr+(-0.0150)Arg+(-0.0049)Leu;0.712,0.750,0.760,0.811,0.736,0.712,0.710,0.742,(2.6977)+(-0.1022)Asn+(0.0013)Gly+(-0.0577)Tyr+(-0.0173)Leu+(0.0902)Phe;0.712,0.749,0.775,0.825,0.746,0.737,0.733,0.760,(1.0916)+(-0.1173)Asn+(0.0065)Gln+(-0.0172)Arg+(-0.0639)Tyr+(0.0692)Phe;0.712,0.748,0.766,0.779,0.739,0.807,0.759,0.771,(3.2615)+(0.0011)Gly+(-0.0081)Ala+(0.0138)Pro+(-0.2014)Met+(0.0033)Leu;0.712,0.756,0.739,0.767,0.729,0.791,0.651,0.734,(0.4403)+(0.0390)Ser+(-0.1522)Asn+(0.0032)Gln+(-0.0021)Thr+(-0.0170)Arg;0.712,0.753,0.707,0.664,0.748,0.808,0.661,0.720,(2.6405)+(-0.1161)Cit+(-0.0058)Pro+(0.0488)Orn+(-0.0287)Lys+(0.0439)Ile;0.712,0.754,0.746,0.747,0.778,0.794,0.643,0.741,(3.8538)+(-0.0969)Cit+(-0.0014)Arg+(-0.0192)Tyr+(-0.1676)Met+(0.0492)Orn;0.712,0.752,0.755,0.780,0.779,0.799,0.604,0.741,(4.4304)+(0.0231)Thr+(-0.0656)Cit+(-0.0058)Tyr+(-0.0046)Val+(-0.2299)Met;0.712,0.754,0.770,0.767,0.790,0.806,0.712,0.769,(2.3301)+(-0.1400)Asn+(0.0056)Gln+(-0.1080)Cit+(-0.0011)Pro+(0.0402)Orn;0.712,0.753,0.682,0.651,0.609,0.814,0.819,0.724,(-1.0974)+(0.0367)Ser+(-0.0056)Gly+(-0.0036)Gln+(-0.0136)Ala+(0.0497)Ile;0.712,0.753,0.742,0.765,0.774,0.783,0.584,0.727,(3.9947)+(0.0009)Gly+(0.0227)Thr+(-0.0717)Cit+(-0.0084)Tyr+(-0.2426)Met;0.712,0.750,0.806,0.824,0.770,0.826,0.819,0.810,(3.7979)+(-0.1500)Asn+(0.0077)Gln+(-0.0579)Cit+(-0.0352)Val+(0.0494)Leu;0.712,0.748,0.776,0.804,0.737,0.808,0.764,0.778,(2.2603)+(0.0038)Gln+(-0.0076)Ala+(0.0138)Pro+(-0.0108)Tyr+(-0.2040)Met;0.712,0.753,0.725,0.725,0.725,0.772,0.692,0.728,(1.2141)+(0.0485)Ser+(-0.1429)Asn+(-0.0056)Gly+(-0.0168)Arg+(0.0036)Pro;0.712,0.747,0.802,0.824,0.804,0.804,0.739,0.793,(2.5399)+(-0.0708)Asn+(0.0082)Gln+(-0.0748)Cit+(-0.1652)Met+(0.0027)Leu;0.712,0.750,0.780,0.818,0.771,0.795,0.689,0.768,(3.4861)+(-0.1331)Asn+(0.0069)Gln+(0.0137)Thr+(-0

.0780)Cit+(-0.0420)Tyr;0.712,0.746,0.788,0.791,0.771,0.828,0.786,0.794,(5.2106)+(-0.0696)Asn+(-0.0102)Ala+(-0.0731)Cit+(0.0126)Pro+(-0.0007)Leu;0.712,0.757,0.778,0.780,0.771,0.802,0.772,0.781,(4.5961)+(-0.0514)Cit+(0.0059)Arg+(-0.0326)Val+(-0.2138)Met+(0.0583)Leu;0.712,0.751,0.744,0.767,0.725,0.835,0.658,0.746,(1.7858)+(0.0265)Ser+(-0.0027)Thr+(-0.0070)Ala+(-0.0780)Cit+(-0.0231)Tyr;0.712,0.748,0.773,0.796,0.741,0.813,0.751,0.775,(4.2828)+(-0.0066)Ala+(0.0156)Pro+(-0.0067)Tyr+(-0.0074)Val+(-0.1676)Met;0.711,0.757,0.710,0.755,0.627,0.781,0.712,0.719,(-1.7993)+(0.0290)Ser+(-0.0090)Thr+(-0.0080)Ala+(-0.0557)Tyr+(0.0686)Phe;0.711,0.752,0.708,0.721,0.709,0.771,0.626,0.707,(0.8874)+(0.0423)Ser+(-0.1411)Asn+(-0.0032)Thr+(-0.0162)Arg+(0.0044)Pro;0.711,0.752,0.718,0.741,0.640,0.811,0.751,0.736,(0.9185)+(0.0348)Ser+(-0.0092)Gly+(-0.0096)Ala+(0.0130)Pro+(-0.0509)Tyr;0.711,0.753,0.712,0.708,0.658,0.766,0.791,0.731,(0.6272)+(-0.0024)Gly+(-0.0069)Pro+(0.0039)Orn+(0.1549)Ile+(-0.0920)Leu;0.711,0.750,0.774,0.799,0.773,0.789,0.695,0.764,(1.9734)+(-0.0805)Asn+(0.0049)Gln+(0.0156)Thr+(-0.2295)Met+(0.0116)Orn;0.711,0.751,0.770,0.820,0.750,0.725,0.714,0.752,(3.0984)+(-0.0879)Asn+(-0.0098)Arg+(-0.0565)Tyr+(-0.0170)Leu+(0.0905)Phe;0.711,0.747,0.790,0.803,0.744,0.809,0.838,0.798,(1.3928)+(-0.1260)Asn+(0.0038)Gln+(-0.0108)Ala+(0.0080)Pro+(0.0440)Phe;0.711,0.753,0.776,0.781,0.759,0.771,0.805,0.779,(4.2042)+(-0.1319)Asn+(-0.0475)Cit+(-0.0360)Val+(0.0404)Leu+(0.0701)Phe;0.711,0.747,0.766,0.785,0.737,0.799,0.754,0.769,(3.6127)+(0.0007)Gly+(-0.0077)Ala+(0.0145)Pro+(-0.0096)Tyr+(-0.1804)Met;0.711,0.756,0.660,0.691,0.607,0.674,0.679,0.663,(-1.6876)+(0.0383)Ser+(-0.0110)Gly+(-0.0920)Tyr+(0.0083)Orn+(0.0570)Phe;0.711,0.753,0.776,0.814,0.768,0.788,0.683,0.763,(2.4557)+(-0.0847)Asn+(0.0054)Gln+(0.0192)Thr+(-0.0173)Tyr+(-0.1998)Met;0.711,0.752,0.753,0.769,0.726,0.821,0.714,0.758,(2.1057)+(0.0331)Ser+(-0.0060)Gly+(-0.0066)Ala+(-0.0707)Ci

t+(-0.0308)Tyr;0.711,0.749,0.682,0.669,0.633,0.739,0.773,0.704,(-0.16
59)+(-0.0016)Gly+(-0.0015)Gln+(0.1455)Ile+(-0.0960)Leu+(0.0307)Phe;0.
711,0.748,0.826,0.853,0.797,0.850,0.797,0.824,(3.6971)+(-0.1092)Asn+(
0.0076)Gln+(-0.0050)Ala+(-0.0734)Cit+(-0.0058)Val;0.711,0.748,0.779,0
.802,0.751,0.817,0.750,0.780,(4.4681)+(-0.0065)Ala+(-0.0069)Arg+(0.01
54)Pro+(-0.0075)Val+(-0.1660)Met;0.711,0.755,0.734,0.747,0.770,0.769,
0.601,0.722,(3.8930)+(0.0230)Thr+(-0.0696)Cit+(-0.0064)Arg+(0.0079)Pr
o+(-0.2778)Met;0.711,0.751,0.721,0.742,0.723,0.784,0.616,0.716,(1.583
9)+(0.0400)Ser+(-0.1389)Asn+(-0.0173)Arg+(0.0058)Pro+(-0.0089)Leu;0.7
11,0.747,0.734,0.739,0.686,0.824,0.757,0.751,(0.2258)+(0.0357)Ser+(-0
.0066)Gly+(-0.0114)Ala+(-0.0256)Arg+(0.0108)Pro;0.711,0.757,0.677,0.7
22,0.643,0.735,0.587,0.672,(-1.3127)+(0.0305)Ser+(-0.0664)Tyr+(-0.019
2)Lys+(-0.0082)Leu+(0.0837)Phe;0.711,0.754,0.738,0.775,0.730,0.786,0.
623,0.728,(3.6780)+(0.0178)Thr+(0.0111)Pro+(-0.0132)Tyr+(-0.0106)Val+
(-0.2468)Met;0.711,0.753,0.740,0.754,0.776,0.771,0.603,0.726,(3.7666)
+(0.0251)Thr+(-0.0702)Cit+(-0.0056)Arg+(-0.2729)Met+(0.0070)Leu;0.711
,0.755,0.779,0.791,0.756,0.818,0.769,0.783,(3.9810)+(0.0011)Gly+(-0.0
028)Arg+(-0.0360)Val+(-0.2217)Met+(0.0624)Leu;0.711,0.756,0.772,0.770
,0.794,0.806,0.703,0.768,(2.3157)+(-0.1352)Asn+(0.0059)Gln+(-0.1032)C
it+(-0.0073)Arg+(0.0397)Orn;0.711,0.750,0.784,0.800,0.781,0.766,0.764
,0.778,(3.8373)+(-0.1141)Asn+(-0.0564)Cit+(-0.0163)Val+(-0.0012)Lys+(
0.0801)Phe;0.711,0.753,0.778,0.783,0.772,0.803,0.762,0.780,(4.7175)+(
-0.0463)Cit+(-0.0323)Val+(-0.2073)Met+(0.0009)Lys+(0.0570)Leu;0.711,0
.752,0.762,0.788,0.785,0.797,0.618,0.747,(2.3722)+(0.0052)Gln+(0.0216
)Thr+(-0.0716)Cit+(-0.0104)Arg+(-0.2711)Met;0.711,0.757,0.631,0.608,0
.598,0.754,0.673,0.658,(-0.6674)+(0.0232)Ser+(-0.0041)Gln+(-0.0023)Or
n+(0.1451)Ile+(-0.0866)Leu;0.711,0.749,0.783,0.799,0.780,0.763,0.764,
0.776,(3.8089)+(-0.1165)Asn+(-0.0562)Cit+(-0.0000)Arg+(-0.0167)Val+(0

.0800)Phe;0.711,0.758,0.677,0.655,0.621,0.767,0.784,0.707,(-1.3527)+(0.0285)Ser+(-0.0088)Gly+(-0.0053)Orn+(0.1454)Ile+(-0.0891)Leu;0.711,0.756,0.715,0.723,0.714,0.801,0.634,0.718,(1.2561)+(0.0391)Ser+(-0.1414)Asn+(0.0220)Orn+(-0.0112)Lys+(-0.0031)Leu;0.711,0.753,0.753,0.792,0.739,0.794,0.652,0.744,(2.3479)+(0.0032)Gln+(0.0150)Thr+(0.0101)Pro+(-0.0112)Val+(-0.2787)Met;0.711,0.762,0.763,0.752,0.787,0.783,0.728,0.763,(1.2302)+(-0.1517)Asn+(0.0057)Gln+(-0.1075)Cit+(0.0350)Orn+(0.0291)Phe;0.711,0.755,0.769,0.769,0.713,0.835,0.842,0.789,(1.4962)+(0.0027)Gln+(-0.0109)Ala+(-0.0144)Arg+(-0.0178)Lys+(0.0563)Ile;0.711,0.754,0.759,0.774,0.748,0.859,0.670,0.763,(1.6957)+(0.0271)Ser+(0.0014)Gln+(-0.0072)Ala+(-0.0813)Cit+(-0.0129)Lys;0.711,0.749,0.755,0.781,0.784,0.804,0.594,0.741,(4.5400)+(0.0245)Thr+(-0.0610)Cit+(-0.0068)Arg+(-0.0050)Val+(-0.2336)Met;0.711,0.751,0.775,0.816,0.742,0.743,0.757,0.765,(1.3904)+(-0.1142)Asn+(0.0058)Gln+(-0.0615)Tyr+(-0.0101)Lys+(0.0722)Phe;0.711,0.753,0.629,0.651,0.569,0.685,0.656,0.640,(-3.0374)+(0.0335)Ser+(-0.0171)Thr+(-0.0749)Tyr+(0.0322)Ile+(0.0407)Phe;0.711,0.753,0.720,0.703,0.739,0.784,0.679,0.726,(3.3007)+(-0.0836)Asn+(0.0058)Gly+(-0.0837)Cit+(-0.0149)Lys+(0.0454)Ile;0.711,0.750,0.743,0.765,0.779,0.784,0.578,0.727,(3.9669)+(0.0011)Gly+(0.0236)Thr+(-0.0688)Cit+(-0.0059)Arg+(-0.2521)Met;0.711,0.744,0.812,0.833,0.777,0.819,0.825,0.814,(1.1993)+(-0.1166)Asn+(0.0055)Gln+(-0.0083)Ala+(-0.0155)Arg+(0.0511)Phe;0.711,0.749,0.747,0.731,0.783,0.789,0.685,0.747,(3.8047)+(-0.1078)Asn+(-0.1010)Cit+(-0.0028)Arg+(-0.0003)Pro+(0.0454)Orn;0.711,0.752,0.741,0.718,0.784,0.767,0.694,0.741,(2.8099)+(-0.1175)Asn+(-0.0997)Cit+(-0.0032)Arg+(0.0409)Orn+(0.0279)Phe;0.710,0.751,0.779,0.801,0.778,0.803,0.706,0.772,(2.6684)+(0.0057)Gln+(-0.0671)Cit+(0.0103)Pro+(-0.0077)Val+(-0.2256)Met;0.710,0.750,0.749,0.757,0.682,0.813,0.821,0.768,(2.8236)+(-0.0001)Gly+(-0.0094)Ala+(-0.0350)Tyr+(-0.0157)Lys+(0.0607)Ile;

0.710,0.748,0.807,0.834,0.770,0.853,0.777,0.808,(3.6587)+(-0.1250)Asn+(0.0043)Gln+(-0.0044)Ala+(-0.0137)Val+(0.0330)Orn;0.710,0.747,0.776,0.798,0.744,0.814,0.756,0.778,(4.0226)+(-0.0067)Ala+(0.0156)Pro+(-0.0085)Val+(-0.1864)Met+(0.0030)Lys;0.710,0.745,0.783,0.795,0.769,0.823,0.750,0.784,(4.0014)+(-0.0471)Asn+(-0.0047)Ala+(-0.1271)Met+(0.0307)Orn+(-0.0044)Lys;0.710,0.756,0.709,0.766,0.633,0.774,0.672,0.711,(-1.4741)+(0.0238)Ser+(-0.0075)Ala+(-0.0615)Tyr+(-0.0109)Leu+(0.0799)Phe;0.710,0.752,0.757,0.747,0.697,0.833,0.856,0.783,(2.0052)+(0.0003)Gly+(0.0011)Thr+(-0.0112)Ala+(-0.0201)Lys+(0.0576)Ile;0.710,0.749,0.775,0.792,0.749,0.808,0.762,0.778,(3.8456)+(-0.0077)Ala+(-0.0075)Arg+(0.0141)Pro+(-0.1814)Met+(0.0002)Lys;0.710,0.746,0.678,0.700,0.675,0.749,0.572,0.674,(0.6993)+(0.0297)Ser+(-0.0099)Thr+(-0.0772)Cit+(0.0075)Pro+(-0.0506)Tyr;0.710,0.746,0.779,0.800,0.773,0.834,0.699,0.776,(5.0011)+(-0.0983)Asn+(0.0029)Gly+(0.0142)Thr+(-0.0071)Ala+(-0.0782)Cit;0.710,0.755,0.719,0.725,0.751,0.802,0.576,0.714,(4.0848)+(0.0065)Thr+(-0.1114)Cit+(-0.0472)Tyr+(0.0584)Orn+(-0.0182)Lys;0.710,0.752,0.763,0.802,0.750,0.822,0.642,0.754,(2.2203)+(0.0025)Gln+(0.0125)Thr+(-0.0102)Val+(-0.2485)Met+(0.0221)Orn;0.710,0.751,0.781,0.809,0.779,0.791,0.702,0.770,(2.0650)+(-0.0807)Asn+(0.0054)Gln+(0.0181)Thr+(-0.2310)Met+(0.0002)Leu;0.710,0.744,0.724,0.745,0.748,0.788,0.576,0.714,(3.5527)+(-0.0983)Cit+(-0.0103)Arg+(-0.0500)Tyr+(0.0532)Orn+(-0.0101)Leu;0.710,0.751,0.765,0.811,0.742,0.719,0.726,0.750,(2.9922)+(-0.0928)Asn+(-0.0573)Tyr+(-0.0033)Lys+(-0.0156)Leu+(0.0894)Phe;0.710,0.751,0.776,0.799,0.770,0.805,0.708,0.771,(3.8220)+(-0.0557)Asn+(0.0216)Thr+(-0.0046)Ala+(-0.1986)Met+(0.0055)Leu;0.71

0,0.749,0.771,0.799,0.770,0.756,0.713,0.759,(3.6133)+(-0.1484)Asn+(0.0198)Thr+(-0.0171)Arg+(-0.0219)Val+(0.0822)Phe;0.710,0.753,0.780,0.777,0.777,0.805,0.772,0.783,(4.6147)+(-0.0463)Cit+(0.0103)Tyr+(-0.0334)

Val+(-0.2222)Met+(0.0588)Leu;0.710,0.751,0.721,0.740,0.717,0.774,0.636,0.717,(0.3363)+(0.0392)Ser+(-0.1568)Asn+(0.0027)Gln+(-0.0190)Arg+(0.0035)Pro;0.710,0.747,0.789,0.791,0.773,0.831,0.785,0.795,(5.3594)+(-0.0645)Asn+(-0.0100)Ala+(-0.0723)Cit+(0.0126)Pro+(-0.0029)Lys;0.710,0.747,0.707,0.708,0.739,0.824,0.554,0.706,(1.0071)+(0.0203)Ser+(-0.0865)Cit+(-0.0207)Arg+(-0.0140)Val+(0.0442)Orn;0.710,0.747,0.748,0.771,0.767,0.753,0.645,0.734,(2.3982)+(-0.1211)Asn+(0.0056)Gly+(-0.0786)Cit+(-0.0167)Leu+(0.0725)Phe;0.710,0.749,0.771,0.774,0.734,0.806,0.817,0.783,(2.3328)+(-0.1101)Asn+(-0.0111)Ala+(0.0081)Pro+(0.0147)Orn+(0.0410)Phe;0.710,0.751,0.646,0.679,0.615,0.716,0.576,0.646,(-1.4954)+(0.0320)Ser+(0.0050)Pro+(-0.0712)Tyr+(-0.0227)Lys+(0.0731)Phe;0.710,0.751,0.764,0.790,0.754,0.747,0.729,0.755,(2.9509)+(-0.1637)Asn+(0.0020)Gly+(0.0147)Thr+(-0.0218)Val+(0.0817)Phe;0.710,0.750,0.745,0.749,0.729,0.789,0.735,0.750,(1.5872)+(0.0477)Ser+(-0.1458)Asn+(-0.0062)Gly+(-0.0029)Thr+(-0.0063)Leu;0.710,0.748,0.709,0.702,0.726,0.812,0.620,0.715,(0.4545)+(0.0258)Ser+(-0.0185)Thr+(-0.1023)Cit+(-0.0119)Val+(0.0495)Orn;0.710,0.751,0.698,0.696,0.693,0.766,0.661,0.704,(0.1594)+(0.0427)Ser+(-0.1573)Asn+(-0.0093)Thr+(0.0028)Pro+(0.0156)Orn;0.710,0.751,0.789,0.832,0.768,0.842,0.685,0.782,(2.3030)+(0.0035)Gln+(0.0170)Thr+(-0.0032)Ala+(-0.0061)Val+(-0.2377)Met;0.710,0.752,0.736,0.754,0.768,0.768,0.603,0.723,(3.7911)+(0.0245)Thr+(-0.0734)Cit+(-0.0118)Tyr+(-0.2606)Met+(0.0078)Leu;0.710,0.747,0.784,0.792,0.762,0.810,0.792,0.789,(2.5353)+(-0.0950)Asn+(-0.0088)Ala+(-0.0144)Arg+(0.0224)Orn+(0.0465)Phe;0.710,0.749,0.710,0.699,0.703,0.763,0.717,0.720,(0.6019)+(0.0471)Ser+(-0.1681)Asn+(-0.0057)Gly+(0.0015)Pro+(0.0123)Orn;0.710,0.749,0.770,0.790,0.763,0.781,0.726,0.765,(1.8087)+(-0.0661)Asn+(0.0051)Gln+(0.0056)Pro+(-0.2170)Met+(0.0151)Orn;0.710,0.743,0.779,0.803,0.770,0.772,0.738,0.771,(1.9019)+(-0.0641)Asn+(0.0002)Gly+(0.0058)Gln+(0.0066)Pro+(

-0.2136)Met;0.710,0.745,0.733,0.763,0.736,0.743,0.641,0.721,(3.8894)+(-0.0586)Asn+(0.0202)Thr+(0.0076)Pro+(-0.0233)Tyr+(-0.2077)Met;0.710,0.745,0.716,0.710,0.702,0.761,0.731,0.726,(0.7234)+(0.0497)Ser+(-0.1510)Asn+(-0.0057)Gly+(-0.0064)Thr+(0.0034)Pro;0.710,0.754,0.679,0.725,0.585,0.762,0.694,0.691,(-1.5814)+(0.0240)Ser+(-0.0111)Ala+(0.0106)Pro+(-0.0661)Tyr+(0.0613)Phe;0.710,0.750,0.692,0.708,0.677,0.746,0.642,0.693,(1.2092)+(0.0354)Ser+(-0.0079)Gly+(-0.0700)Cit+(0.0069)Pro+(-0.0633)Tyr;0.710,0.743,0.736,0.754,0.746,0.755,0.657,0.728,(3.1506)+(-0.0568)Asn+(0.0159)Thr+(0.0056)Pro+(-0.2411)Met+(0.0138)Orn;0.709,0.748,0.769,0.788,0.739,0.802,0.760,0.772,(3.8062)+(-0.0076)Ala+(0.0144)Pro+(-0.0101)Tyr+(-0.1740)Met+(-0.0011)Lys;0.709,0.755,0.776,0.786,0.741,0.774,0.823,0.781,(3.8787)+(-0.1412)Asn+(-0.0405)Val+(-0.0009)Lys+(0.0463)Leu+(0.0648)Phe;0.709,0.749,0.768,0.802,0.745,0.798,0.700,0.761,(5.1613)+(-0.1013)Asn+(-0.0286)Tyr+(-0.0139)Val+(0.0408)Orn+(-0.0006)Lys;0.709,0.750,0.743,0.770,0.721,0.836,0.653,0.745,(1.6320)+(0.0242)Ser+(0.0008)Gln+(-0.0072)Ala+(-0.0806)Cit+(-0.0260)Tyr;0.709,0.749,0.818,0.847,0.810,0.829,0.753,0.810,(3.2802)+(-0.0804)Asn+(0.0084)Gln+(-0.0674)Cit+(-0.0061)Val+(-0.1267)Met;0.709,0.753,0.765,0.800,0.747,0.831,0.666,0.761,(3.2630)+(0.0137)Thr+(-0.0036)Ala+(-0.0087)Val+(-0.2112)Met+(0.0266)Orn;0.709,0.753,0.718,0.724,0.708,0.782,0.678,0.723,(-0.0836)+(0.0410)Ser+(-0.1639)Asn+(0.0017)Gln+(-0.0087)Thr+(0.0158)Orn;0.709,0.750,0.777,0.799,0.777,0.815,0.693,0.771,(4.9266)+(-0.0637)Asn+(-0.0106)Arg+(-0.0127)Val+(-0.1078)Met+(0.0404)Orn;0.709,0.759,0.651,0.682,0.627,0.725,0.570,0.651,(-0.9911)+(0.0345)Ser+(-0.0020)Gln+(-0.0657)Tyr+(-0.0206)Lys+(0.0782)Phe;0.709,0.754,0.697,0.697,0.697,0.789,0.630,0.703,(0.9314)+(0.0404)Ser+(-0.1429)Asn+(0.0032)Pro+(0.0192)Orn+(-0.0132)Lys;0.709,0.748,0.769,0.784,0.766,0.750,0.753,0.763,(3.8695)+(-0.1217)Asn+(-0.0553)Cit+(0.0061)Pro+(-0.0188)Val+(0.0757)P

he;0.709,0.745,0.762,0.779,0.775,0.784,0.671,0.752,(1.9565)+(0.0016)Gly+(0.0055)Gln+(-0.0771)Cit+(0.0082)Pro+(-0.2462)Met;0.709,0.751,0.756,0.770,0.680,0.822,0.827,0.775,(1.9991)+(0.0023)Gln+(-0.0095)Ala+(-0.0366)Tyr+(-0.0176)Lys+(0.0603)Ile;0.709,0.750,0.663,0.640,0.587,0.815,0.772,0.704,(-1.2665)+(0.0306)Ser+(-0.0043)Gln+(-0.0137)Ala+(-0.0012)Orn+(0.0524)Ile;0.709,0.743,0.740,0.759,0.751,0.758,0.655,0.730,(3.6692)+(-0.0515)Asn+(0.0196)Thr+(0.0066)Pro+(-0.2330)Met+(-0.0039)Lys;0.709,0.746,0.758,0.785,0.737,0.746,0.739,0.752,(2.9562)+(-0.1410)Asn+(0.0029)Gly+(0.0065)Pro+(-0.0214)Val+(0.0746)Phe;0.709,0.752,0.749,0.766,0.762,0.718,0.697,0.736,(1.5963)+(-0.0658)Cit+(0.0031)Arg+(-0.0256)Tyr+(-0.2414)Met+(0.0995)Phe;0.709,0.744,0.739,0.761,0.748,0.752,0.657,0.729,(3.3825)+(-0.0552)Asn+(0.0004)Gly+(0.0186)Thr+(0.0064)Pro+(-0.2430)Met;0.709,0.752,0.728,0.730,0.670,0.823,0.776,0.750,(0.7360)+(0.0390)Ser+(-0.0078)Gly+(-0.0102)Ala+(0.0112)Pro+(-0.0179)Lys;0.709,0.743,0.779,0.794,0.764,0.815,0.746,0.780,(3.7107)+(-0.0518)Asn+(0.0007)Gly+(-0.0049)Ala+(-0.1383)Met+(0.0278)Orn;0.709,0.752,0.775,0.789,0.750,0.807,0.766,0.778,(3.7486)+(-0.0079)Ala+(-0.0072)Arg+(0.0138)Pro+(-0.1858)Met+(0.0027)Leu;0.709,0.751,0.747,0.767,0.782,0.789,0.594,0.733,(4.3037)+(0.0247)Thr+(-0.0678)Cit+(-0.0044)Arg+(-0.2405)Met+(-0.0036)Lys;0.709,0.749,0.782,0.815,0.764,0.785,0.729,0.773,(3.1489)+(-0.1135)Asn+(0.0074)Gln+(-0.0766)Cit+(0.0056)Pro+(-0.0423)Tyr;0.709,0.751,0.744,0.718,0.759,0.771,0.762,0.753,(3.0987)+(-0.0796)Asn+(-0.0754)Cit+(-0.0169)Lys+(0.0340)Ile+(0.0346)Phe;0.709,0.751,0.746,0.778,0.742,0.788,0.644,0.738,(3.6472)+(-0.0011)Gly+(0.0180)Thr+(0.0104)Pro+(-0.0112)Val+(-0.2627)Met;0.709,0.748,0.638,0.660,0.619,0.731,0.548,0.640,(-0.9500)+(0.0289)Ser+(-0.0307)Arg+(-0.0634)Tyr+(0.0074)Orn+(0.0391)Ile;0.709,0.745,0.783,0.807,0.773,0.780,0.745,0.776,(2.0956)+(-0.0611)Asn+(0.0060)Gln+(0.0067)Pro+(-0.2034)Met+(-0.0036)Lys;0.709,0.74

9,0.757,0.778,0.745,0.729,0.747,0.750,(3.2943)+(-0.1623)Asn+(0.0141)Thr+(0.0056)Pro+(-0.0234)Val+(0.0758)Phe;0.709,0.750,0.727,0.744,0.667,0.834,0.728,0.743,(-0.1582)+(0.0324)Ser+(-0.0116)Thr+(-0.0109)Ala+(-0.0213)Arg+(0.0124)Pro;0.709,0.746,0.775,0.805,0.776,0.810,0.672,0.766,(4.3778)+(-0.0507)Asn+(0.0241)Thr+(-0.0040)Ala+(-0.0117)Arg+(-0.1830)Met;0.709,0.751,0.733,0.751,0.712,0.827,0.660,0.738,(1.5023)+(0.0259)Ser+(-0.0080)Ala+(-0.0823)Cit+(-0.0280)Tyr+(0.0074)Leu;0.709,0.757,0.655,0.686,0.628,0.730,0.576,0.655,(-1.4298)+(0.0300)Ser+(-0.0688)Tyr+(0.0179)Orn+(-0.0242)Lys+(0.0725)Phe;0.709,0.754,0.785,0.787,0.763,0.819,0.797,0.792,(3.8973)+(0.0103)Tyr+(-0.0378)Val+(-0.2418)Met+(0.0002)Lys+(0.0644)Leu;0.708,0.748,0.746,0.750,0.722,0.783,0.760,0.754,(0.2497)+(0.0478)Ser+(-0.1628)Asn+(-0.0062)Gly+(0.0029)Gln+(-0.0058)Thr;0.708,0.743,0.780,0.791,0.745,0.796,0.811,0.786,(2.6793)+(-0.0928)Asn+(-0.0107)Ala+(-0.0109)Arg+(0.0092)Pro+(0.0479)Phe;0.708,0.755,0.740,0.748,0.780,0.778,0.611,0.729,(4.0050)+(0.0261)Thr+(-0.0746)Cit+(-0.2604)Met+(-0.0078)Lys+(0.0109)Leu;0.708,0.744,0.729,0.747,0.659,0.786,0.784,0.744,(2.4339)+(-0.0115)Ala+(-0.0176)Arg+(0.0086)Pro+(-0.0442)Tyr+(0.0466)Ile;0.708,0.745,0.787,0.806,0.781,0.806,0.737,0.783,(2.1697)+(-0.0664)Asn+(0.0055)Gln+(-0.1767)Met+(0.0221)Orn+(-0.0062)Lys;0.708,0.748,0.779,0.813,0.764,0.766,0.734,0.769,(3.0650)+(-0.1236)Asn+(0.0031)Gly+(-0.0102)Arg+(-0.0188)Val+(0.0802)Phe;0.708,0.750,0.649,0.669,0.623,0.735,0.588,0.653,(-1.1521)+(0.0329)Ser+(-0.0073)Thr+(-0.0261)Arg+(-0.0573)Tyr+(0.0426)Ile;0.708,0.754,0.759,0.754,0.706,0.831,0.831,0.781,(2.1998)+(0.0011)Gly+(-0.0108)Ala+(-0.0116)Arg+(-0.0165)Lys+(0.0576)Ile;0.708,0.753,0.736,0.712,0.781,0.762,0.687,0.735,(2.7185)+(-0.1300)Asn+(0.0048)Thr+(-0.1028)Cit+(0.0388)Orn+(0.0279)Phe;0.708,0.749,0.772,0.777,0.732,0.800,0.820,0.782,(2.3944)+(-0.1190)Asn+(0.0072)Thr+(-0.0112)Ala+(0.0085)Pro+(0.0459)Phe;0.708,0.748,0.673,0.698

,0.684,0.757,0.522,0.665,(1.0493)+(0.0277)Ser+(-0.0670)Cit+(-0.0158)Arg+(0.0074)Pro+(-0.0533)Tyr;0.708,0.745,0.792,0.842,0.758,0.810,0.714,0.781,(3.9596)+(-0.1392)Asn+(0.0054)Gln+(0.0138)Thr+(-0.0305)Tyr+(-0.0118)Val;0.708,0.751,0.743,0.768,0.723,0.836,0.650,0.744,(1.9180)+(0.0251)Ser+(-0.0068)Ala+(-0.0776)Cit+(-0.0241)Tyr+(-0.0013)Val;0.708,0.747,0.795,0.817,0.792,0.774,0.761,0.786,(1.2203)+(-0.1444)Asn+(0.0072)Gln+(-0.0823)Cit+(-0.0178)Leu+(0.0632)Phe;0.708,0.749,0.772,0.792,0.744,0.803,0.756,0.774,(4.0290)+(-0.0075)Ala+(-0.0073)Arg+(0.0145)Pro+(-0.0103)Tyr+(-0.1658)Met;0.708,0.747,0.761,0.770,0.727,0.756,0.813,0.766,(3.9079)+(-0.1469)Asn+(0.0057)Pro+(-0.0417)Val+(0.0445)Leu+(0.0606)Phe;0.708,0.748,0.710,0.724,0.703,0.783,0.634,0.711,(1.0924)+(0.0374)Ser+(-0.1648)Asn+(0.0037)Pro+(0.0164)Orn+(-0.0113)Leu;0.708,0.744,0.748,0.760,0.773,0.778,0.644,0.739,(4.3297)+(-0.0426)Asn+(0.0042)Gly+(-0.0688)Cit+(0.0086)Pro+(-0.1729)Met;0.708,0.751,0.747,0.769,0.777,0.791,0.595,0.733,(4.3851)+(0.0242)Thr+(-0.0700)Cit+(-0.0089)Tyr+(-0.2272)Met+(-0.0041)Lys;0.708,0.749,0.802,0.825,0.769,0.799,0.813,0.801,(3.3159)+(-0.1140)Asn+(-0.0051)Ala+(-0.0158)Val+(0.0002)Lys+(0.0809)Phe;0.708,0.747,0.804,0.830,0.797,0.827,0.733,0.797,(2.5440)+(0.0010)Gly+(0.0060)Gln+(-0.0048)Ala+(-0.0767)Cit+(-0.1685)Met;0.708,0.746,0.804,0.828,0.805,0.808,0.737,0.795,(2.6698)+(-0.0719)Asn+(0.0082)Gln+(-0.0735)Cit+(-0.0006)Arg+(-0.1565)Met;0.708,0.745,0.774,0.800,0.752,0.822,0.715,0.772,(3.5345)+(-0.0036)Ala+(-0.0080)Val+(-0.1609)Met+(0.0342)Orn+(-0.0024)Lys;0.708,0.745,0.749,0.756,0.753,0.773,0.701,0.746,(3.5052)+(-0.0419)Asn+(0.0062)Pro+(-0.1896)Met+(0.0242)Orn+(-0.0057)Lys;0.708,0.747,0.807,0.830,0.807,0.816,0.739,0.798,(2.7677)+(-0.0707)Asn+(0.0083)Gln+(-0.0736)Cit+(-0.1499)Met+(-0.0021)Lys;0.708,0.747,0.760,0.773,0.735,0.798,0.749,0.764,(5.5884)+(-0.1497)Asn+(0.0216)Thr+(-0.0116)Arg+(-0.0448)Val+(0.0616)Leu;0.708,0.746,0.692,0.639,0.742,0

.793,0.655,0.707,(2.3839)+(-0.1170)Cit+(0.0021)Arg+(0.0469)Orn+(-0.0296)Lys+(0.0373)Ile;0.708,0.745,0.791,0.805,0.788,0.839,0.725,0.789,(5.6193)+(-0.0868)Asn+(0.0175)Thr+(-0.0069)Ala+(-0.0741)Cit+(-0.0060)Lys;0.708,0.743,0.737,0.761,0.755,0.759,0.620,0.723,(3.7790)+(-0.0455)Asn+(0.0221)Thr+(-0.0140)Arg+(0.0067)Pro+(-0.2402)Met;0.708,0.749,0.664,0.632,0.660,0.757,0.690,0.6

85,(-0.9160)+(0.0455)Ser+(-0.0074)Gly+(-0.0207)Arg+(-0.0274)Lys+(0.0435)Ile;0.708,0.745,0.710,0.722,0.667,0.828,0.680,0.724,(0.3668)+(0.0295)Ser+(-0.0017)Gln+(-0.0113)Ala+(-0.0251)Arg+(0.0116)Pro;0.708,0.750,0.751,0.761,0.687,0.814,0.810,0.768,(2.9973)+(-0.0092)Ala+(-0.0088)Arg+(-0.0334)Tyr+(-0.0132)Lys+(0.0600)Ile;0.708,0.752,0.775,0.806,0.768,0.804,0.687,0.766,(4.3402)+(-0.0613)Asn+(0.0221)Thr+(-0.0039)Ala+(-0.0117)Tyr+(-0.1665)Met;0.708,0.749,0.743,0.728,0.780,0.784,0.679,0.743,(3.7452)+(-0.1190)Asn+(0.0046)Thr+(-0.1037)Cit+(-0.0007)Pro+(0.0437)Orn;0.708,0.746,0.636,0.659,0.615,0.727,0.550,0.638,(-0.9477)+(0.0298)Ser+(-0.0300)Arg+(0.0017)Pro+(-0.0635)Tyr+(0.0395)Ile;0.708,0.756,0.717,0.726,0.712,0.801,0.646,0.721,(0.6493)+(0.0385)Ser+(-0.1492)Asn+(0.0019)Gln+(0.0195)Orn+(-0.0127)Lys;0.708,0.750,0.760,0.789,0.755,0.811,0.655,0.752,(3.3705)+(-0.0021)Gly+(0.0149)Thr+(-0.0108)Val+(-0.2338)Met+(0.0264)Orn;0.708,0.746,0.676,0.627,0.731,0.795,0.607,0.690,(1.9817)+(0.0030)Gly+(-0.1198)Cit+(0.0457)Orn+(-0.0296)Lys+(0.0395)Ile;0.708,0.748,0.793,0.814,0.796,0.829,0.703,0.786,(5.1461)+(-0.0448)Asn+(0.0035)Gly+(-0.0044)Ala+(-0.0676)Cit+(-0.0910)Met;0.708,0.753,0.808,0.830,0.754,0.833,0.846,0.816,(3.7439)+(-0.1502)Asn+(0.0061)Gln+(-0.0402)Val+(-0.0026)Lys+(0.0558)Leu;0.708,0.743,0.681,0.715,0.673,0.766,0.549,0.676,(1.5657)+(0.0236)Ser+(-0.0729)Cit+(0.0088)Pro+(-0.0490)Tyr+(-0.0083)Val;0.708,0.750,0.809,0.840,0.780,0.784,0.808,0.803,(1.8805)+(-0.1522)Asn+(0.0053)Gln+(-0.0192)Val+(-0.0019)Lys+(0.0722)Phe;0

.708,0.748,0.812,0.838,0.763,0.833,0.828,0.816,(3.7093)+(-0.1458)Asn+(0.0068)Gln+(-0.0108)Arg+(-0.0395)Val+(0.0538)Leu;0.708,0.744,0.704,0.737,0.712,0.728,0.583,0.690,(1.3329)+(-0.1059)Cit+(-0.0761)Tyr+(0.0497)Orn+(-0.0213)Leu+(0.0797)Phe;0.708,0.753,0.704,0.716,0.642,0.800,0.732,0.722,(-1.3838)+(0.0315)Ser+(-0.0116)Ala+(0.0095)Pro+(-0.0224)Lys+(0.0487)Phe;0.708,0.750,0.772,0.793,0.763,0.752,0.750,0.764,(3.3399)+(-0.1541)Asn+(0.0168)Thr+(-0.0209)Val+(-0.0039)Lys+(0.0801)Phe;0.708,0.745,0.787,0.802,0.735,0.837,0.820,0.798,(5.1844)+(-0.1110)Asn+(0.0019)Gly+(-0.0043)Ala+(-0.0372)Val+(0.0584)Leu;0.707,0.753,0.714,0.765,0.706,0.820,0.520,0.703,(1.5554)+(0.0219)Ser+(-0.0281)Arg+(-0.0387)Tyr+(-0.0118)Val+(0.0302)Orn;0.707,0.750,0.743,0.729,0.781,0.784,0.669,0.741,(3.7847)+(-0.1163)Asn+(0.0053)Thr+(-0.1005)Cit+(-0.0046)Arg+(0.0431)Orn;0.707,0.746,0.694,0.642,0.743,0.794,0.654,0.708,(2.4293)+(-0.0002)Thr+(-0.1149)Cit+(0.0468)Orn+(-0.0290)Lys+(0.0370)Ile;0.707,0.746,0.703,0.759,0.646,0.719,0.666,0.697,(0.7399)+(-0.0701)Tyr+(-0.0281)Val+(0.0263)Orn+(0.0208)Leu+(0.0678)Phe;0.707,0.742,0.752,0.757,0.736,0.827,0.718,0.759,(1.5019)+(0.0329)Ser+(-0.0049)Gly+(-0.0083)Ala+(-0.0690)Cit+(-0.0116)Arg;0.707,0.747,0.804,0.832,0.801,0.807,0.735,0.794,(2.8559)+(-0.0743)Asn+(0.0083)Gln+(-0.0732)Cit+(-0.0103)Tyr+(-0.1369)Met;0.707,0.751,0.758,0.789,0.712,0.827,0.724,0.763,(1.6321)+(0.0383)Ser+(-0.0085)Gly+(-0.0054)Ala+(-0.0205)Arg+(-0.0361)Tyr;0.707,0.749,0.731,0.743,0.727,0.799,0.660,0.732,(2.2702)+(0.0387)Ser+(-0.0076)Gly+(-0.0639)Cit+(-0.0362)Tyr+(-0.0133)Lys;0.707,0.748,0.768,0.785,0.736,0.799,0.764,0.771,(3.6073)+(-0.0079)Ala+(0.0142)Pro+(-0.0105)Tyr+(-0.1826)Met+(0.0031)Leu;0.707,0.740,0.742,0.754,0.747,0.760,0.685,0.736,(3.1012)+(-0.0481)Asn+(0.0011)Gly+(0.0062)Pro+(-0.2054)Met+(0.0202)Orn;0.707,0.751,0.753,0.760,0.718,0.836,0.751,0.766,(0.2742)+(0.0341)Ser+(-0.0069)Gly+(-0.0090)Ala+(-0.0271)Arg+(0.0183)Orn;0.707,0.752

,0.707,0.694,0.736,0.740,0.659,0.707,(1.6362)+(-0.1293)Asn+(0.0067)Gly+(-0.0891)Cit+(0.0259)Ile+(0.0344)Phe;0.707,0.749,0.757,0.751,0.705,0.830,0.826,0.778,(2.3190)+(0.0049)Thr+(-0.0109)Ala+(-0.0131)Arg+(-0.0175)Lys+(0.0563)Ile;0.707,0.749,0.830,0.866,0.799,0.847,0.787,0.825,(3.0769)+(-0.0786)Asn+(0.0066)Gln+(-0.0024)Ala+(-0.0074)Val+(-0.1223)Met;0.707,0.749,0.774,0.808,0.785,0.813,0.633,0.760,(5.1546)+(-0.0642)Asn+(0.0257)Thr+(-0.0119)Arg+(-0.0093)Val+(-0.1717)Met;0.707,0.754,0.785,0.789,0.766,0.817,0.793,0.791,(4.0130)+(-0.0027)Arg+(0.0106)Tyr+(-0.0373)Val+(-0.2365)Met+(0.0637)Leu;0.707,0.744,0.787,0.810,0.759,0.829,0.757,0.789,(4.8010)+(-0.1036)Asn+(0.0002)Gly+(-0.0043)Ala+(-0.0134)Val+(0.0376)Orn;0.707,0.747,0.704,0.710,0.696,0.783,0.646,0.709,(1.0614)+(0.0419)Ser+(-0.1358)Asn+(-0.0029)Thr+(0.0048)Pro+(-0.0101)Lys;0.707,0.742,0.767,0.782,0.778,0.780,0.696,0.759,(1.9953)+(0.0058)Gln+(-0.0751)Cit+(0.0078)Pro+(-0.2470)Met+(0.0010)Leu;0.707,0.750,0.742,0.774,0.739,0.787,0.629,0.732,(3.4923)+(0.0172)Thr+(0.0105)Pro+(-0.0112)Val+(-0.2638)Met+(0.0001)Lys;0.707,0.746,0.699,0.726,0.689,0.779,0.592,0.697,(-1.1862)+(0.0330)Ser+(-0.0258)Arg+(-0.0144)Val+(-0.0147)Lys+(0.0651)Phe;0.707,0.751,0.722,0.737,0.712,0.800,0.647,0.724,(1.3762)+(0.0404)Ser+(-0.1353)Asn+(-0.0007)Thr+(-0.0088)Lys+(-0.0003)Leu;0.707,0.745,0.774,0.806,0.755,0.768,0.731,0.765,(2.2924)+(-0.0667)Asn+(0.0059)Gln+(0.0075)Pro+(-0.0192)Tyr+(-0.1803)Met;0.707,0.750,0.744,0.768,0.776,0.785,0.586,0.729,(4.2714)+(0.0247)Thr+(-0.0662)Cit+(-0.0062)Arg+(-0.0098)Tyr+(-0.2366)Met;0.707,0.746,0.773,0.789,0.780,0.796,0.699,0.766,(2.2536)+(0.0061)Gln+(-0.0740)Cit+(0.0081)Pro+(-0.2300)Met+(-0.0042)Lys;0.707,0.746,0.698,0.650,0.742,0.798,0.662,0.713,(1.6907)+(0.0021)Gln+(-0.1176)Cit+(0.0446)Orn+(-0.0306)Lys+(0.0375)Ile;0.707,0.745,0.655,0.610,0.637,0.749,0.745,0.685,(-1.5822)+(0.0489)Ser+(-0.0074)Gly+(-0.0139)Thr+(-0.0279)Lys+(0.0468)Ile;0.706,0.752,0.737,0.7

69,0.739,0.753,0.635,0.724,(5.1680)+(-0.1015)Asn+(0.0157)Thr+(-0.0685)Cit+(0.0060)Pro+(-0.0480)Tyr;0.706,0.744,0.730,0.732,0.716,0.778,0.718,0.736,(1.5549)+(0.0466)Ser+(-0.1543)Asn+(-0.0062)Gly+(0.0046)Pro+(-0.0100)Leu;0.706,0.752,0.766,0.761,0.786,0.801,0.709,0.764,(2.3011)+(-0.1443)Asn+(0.0054)Gln+(0.0022)Thr+(-0.1076)Cit+(0.0386)Orn;0.706,0.744,0.769,0.801,0.745,0.820,0.696,0.766,(1.7672)+(0.0028)Gln+(0.0125)Thr+(-0.0049)Ala+(-0.2426)Met+(0.0163)Orn;0.706,0.746,0.786,0.820,0.765,0.817,0.718,0.780,(1.9573)+(-0.0019)Gly+(0.0038)Gln+(0.0169)Thr+(-0.0044)Ala+(-0.2496)Met;0.706,0.751,0.772,0.797,0.745,0.800,0.739,0.770,(2.7305)+(-0.0074)Ala+(-0.0739)Cit+(-0.0443)Tyr+(-0.0096)Lys+(0.0821)Phe;0.706,0.756,0.730,0.774,0.696,0.832,0.614,0.729,(0.9420)+(0.0244)Ser+(-0.0068)Ala+(-0.0255)Arg+(-0.0354)Tyr+(0.0242)Orn;0.706,0.753,0.735,0.755,0.717,0.803,0.671,0.737,(0.6735)+(0.0388)Ser+(-0.1467)Asn+(0.0028)Gln+(-0.0016)Thr+(-0.0094)Lys;0.706,0.751,0.730,0.750,0.719,0.796,0.651,0.729,(0.7573)+(0.0361)Ser+(-0.1703)Asn+(0.0017)Gln+(0.0166)Orn+(-0.0094)Leu;0.706,0.749,0.750,0.784,0.721,0.861,0.639,0.751,(1.0987)+(0.0227)Ser+(-0.0068)Ala+(-0.0274)Arg+(-0.0110)Val+(0.0284)Orn;0.706,0.752,0.692,0.740,0.611,0.767,0.678,0.699,(-1.7140)+(0.0230)Ser+(-0.0089)Ala+(-0.0634)Tyr+(0.0100)Orn+(0.0648)Phe;0.706,0.744,0.733,0.775,0.715,0.707,0.679,0.719,(2.6718)+(-0.0934)Asn+(-0.0147)Arg+(-0.0649)Tyr+(0.0244)Orn+(0.0625)Phe;0.706,0.744,0.809,0.836,0.798,0.831,0.744,0.802,(2.6965)+(0.0062)Gln+(-0.0044)Ala+(-0.0735)Cit+(-0.0016)Val+(-0.1655)Met;0.706,0.745,0.658,0.683,0.661,0.741,0.528,0.653,(1.0044)+(0.0261)Ser+(-0.0008)Gln+(-0.0795)Cit+(0.0068)Pro+(-0.0569)Tyr;0.706,0.751,0.761,0.770,0.739,0.799,0.752,0.765,(0.9698)+(0.0449)Ser+(-0.1657)Asn+(-0.0067)Gly+(0.0031)Gln+(-0.0081)Leu;0.706,0.749,0.712,0.724,0.700,0.789,0.653,0.716,(0.5911)+(0.0393)Ser+(-0.1496)Asn+(0.0023)Gln+(0.0040)Pro+(-0.0112)Lys;0.706,0.745,0.777,0.802,0.764,0.833

,0.698,0.774,(3.9374)+(-0.0035)Ala+(-0.0138)Arg+(-0.0089)Val+(-0.1478)Met+(0.0377)Orn;0.706,0.756,0.736,0.758,0.714,0.841,0.651,0.741,(0.7091)+(0.0277)Ser+(-0.0074)Ala+(-0.0204)Arg+(0.0253)Orn+(-0.0144)Lys;0.706,0.743,0.822,0.852,0.794,0.838,0.791,0.819,(2.4890)+(-0.0665)Asn+(0.0063)Gln+(-0.0037)Ala+(-0.1439)Met+(-0.0017)Lys;0.706,0.745,0.814,0.852,0.792,0.827,0.750,0.805,(3.8051)+(-0.1146)Asn+(0.0080)Gln+(-0.0674)Cit+(-0.0239)Tyr+(-0.0078)Val;0.706,0.748,0.726,0.721,0.713,0.774,0.733,0.735,(0.2214)+(0.0460)Ser+(-0.1764)Asn+(-0.0061)Gly+(0.0020)Gln+(0.0114)Orn;0.706,0.752,0.744,0.778,0.750,0.800,0.599,0.732,(4.1178)+(0.0221)Thr+(-0.0170)Arg+(0.0107)Pro+(-0.0112)Val+(-0.2515)Met;0.706,0.751,0.694,0.694,0.692,0.770,0.642,0.700,(3.4431)+(0.0130)Thr+(-0.0807)Cit+(-0.0547)Tyr+(-0.0210)Lys+(0.0529)Ile;0.706,0.747,0.746,0.742,0.692,0.802,0.828,0.766,(0.7641)+(-0.0140)Ala+(-0.0229)Arg+(0.0063)Pro+(0.0385)Ile+(0.0167)Phe;0.706,0.745,0.786,0.819,0.756,0.836,0.728,0.785,(2.3540)+(0.0030)Gln+(-0.0036)Ala+(-0.0083)Val+(-0.1884)Met+(0.0289)Orn;0.706,0.749,0.744,0.745,0.748,0.773,0.711,0.744,(1.2318)+(-0.1463)Asn+(0.0046)Gly+(0.0060)Gln+(-0.0934)Cit+(0.0308)Ile;0.706,0.748,0.696,0.676,0.609,0.812,0.844,0.735,(-2.3250)+(0.0322)Ser+(-0.0066)Gly+(-0.0145)Ala+(0.0439)Ile+(0.0086)Phe;0.706,0.746,0.812,0.827,0.776,0.824,0.839,0.816,(1.4776)+(-0.1138)Asn+(0.0050)Gln+(-0.0079)Ala+(-0.0098)Lys+(0.0543)Phe;0.706,0.743,0.786,0.812,0.785,0.802,0.711,0.777,(2.0359)+(-0.0633)Asn+(0.0060)Gln+(-0.0147)Arg+(-0.1829)Met+(0.0214)Orn;0.706,0.741,0.737,0.758,0.733,0.748,0.684,0.731,(3.6525)+(-0.0506)Asn+(0.0071)Pro+(-0.0248)Tyr+(-0.1631)Met+(0.0237)Orn;0.706,0.749,0.721,0.770,0.715,0.684,0.629,0.699,(2.7951)+(-0.1162)Asn+(0.0213)Thr+(-0.0197)Arg+(-0.0740)Tyr+(0.0756)Phe;0.706,0.747,0.791,0.818,0.779,0.831,0.716,0.786,(5.2890)+(-0.0692)Asn+(0.0032)Gly+(-0.0054)Ala+(-0.0697)Cit+(-0.0125)Tyr;0.706,0.744,0.819,0.846,0.790,0.831,0.796,0.81

6,(2.2646)+(-0.0656)Asn+(0.0061)Gln+(-0.0042)Ala+(-0.1568)Met+(0.0037)Leu;0.706,0.744,0.782,0.808,0.771,0.776,0.742,0.774,(2.0746)+(-0.0654)Asn+(0.0059)Gln+(0.0070)Pro+(-0.2049)Met+(-0.0035)Leu;0.706,0.755,0.782,0.792,0.758,0.813,0.781,0.786,(4.1078)+(-0.0031)Arg+(-0.0361)Val+(-0.2216)Met+(0.0013)Lys+(0.0617)Leu;0.706,0.749,0.736,0.745,0.670,0.813,0.793,0.755,(2.7155)+(0.0075)Thr+(-0.0095)Ala+(-0.0397)Tyr+(-0.0180)Lys+(0.0606)Ile;0.706,0.742,0.708,0.737,0.614,0.763,0.787,0.725,(0.6550)+(-0.0124)Ala+(0.0075)Pro+(-0.0612)Tyr+(0.0376)Ile+(0.0385)Phe;0.706,0.744,0.822,0.851,0.793,0.835,0.793,0.818,(2.4224)+(-0.0676)Asn+(-0.0001)Gly+(0.0062)Gln+(-0.0038)Ala+(-0.1484)Met;0.706,0.749,0.778,0.812,0.768,0.829,0.673,0.771,(3.7603)+(-0.0013)Gly+(0.0203)Thr+(-0.0032)Ala+(-0.0061)Val+(-0.2195)Met;0.706,0.748,0.613,0.617,0.572,0.705,0.623,0.629,(-1.1238)+(0.0363)Ser+(-0.0033)Gln+(-0.0142)Thr+(-0.0590)Tyr+(0.0439)Ile;0.705,0.745,0.785,0.807,0.777,0.793,0.740,0.779,(1.9080)+(-0.0704)Asn+(-0.0003)
Gly+(0.0054)Gln+(-0.1939)Met+(0.0184)Orn;0.705,0.743,0.748,0.761,0.736,0.835,0.675,0.752,(1.3229)+(0.0285)Ser+(-0.0048)Thr+(-0.0080)Ala+(-0.0745)Cit+(-0.0084)Arg;0.705,0.745,0.796,0.808,0.758,0.818,0.830,0.804,(1.2397)+(-0.1302)Asn+(0.0039)Gln+(-0.0091)Ala+(0.0145)Orn+(0.0438)Phe;0.705,0.748,0.736,0.729,0.771,0.826,0.620,0.736,(3.4518)+(0.0002)Gly+(-0.1076)Cit+(-0.0102)Val+(0.0597)Orn+(-0.0165)Lys;0.705,0.748,0.734,0.758,0.699,0.725,0.753,0.734,(2.7192)+(-0.0778)Asn+(-0.0615)Tyr+(-0.0132)Lys+(0.0326)Ile+(0.0559)Phe;0.705,0.743,0.730,0.761,0.683,0.845,0.667,0.739,(1.0337)+(0.0266)Ser+(-0.0094)Ala+(-0.0252)Arg+(0.0131)Pro+(-0.0103)Val;0.705,0.739,0.782,0.799,0.743,0.793,0.808,0.786,(2.7651)+(-0.1061)Asn+(-0.0098)Ala+(0.0104)Pro+(-0.0156)Leu+(0.0621)Phe;0.705,0.744,0.784,0.799,0.776,0.817,0.736,0.782,(4.0049)+(-0.0436)Asn+(-0.0048)Ala+(-0.0098)Arg+(-0.1304)Met+(0.0308)Orn;0.705,0.753,0.6

66,0.703,0.631,0.734,0.590,0.665,(-1.4707)+(0.0324)Ser+(-0.0024)Thr+(-0.0650)Tyr+(-0.0209)Lys+(0.0754)Phe;0.705,0.747,0.755,0.773,0.763,0.757,0.691,0.746,(0.4933)+(-0.1585)Asn+(0.0049)Gly+(0.0064)Gln+(-0.0932)Cit+(0.0481)Phe;0.705,0.746,0.786,0.803,0.774,0.832,0.731,0.785,(4.7145)+(-0.0759)Asn+(0.0040)Gly+(-0.0069)Ala+(-0.0759)Cit+(0.0053)Leu;0.705,0.750,0.714,0.729,0.671,0.830,0.681,0.728,(-0.2520)+(0.0261)Ser+(-0.0118)Ala+(-0.0287)Arg+(0.0101)Pro+(0.0126)Orn;0.705,0.745,0.689,0.634,0.739,0.788,0.658,0.705,(1.8003)+(-0.1169)Cit+(0.0464)Orn+(-0.0312)Lys+(0.0336)Ile+(0.0225)Phe;0.705,0.744,0.749,0.760,0.760,0.769,0.685,0.743,(3.4691)+(-0.0388)Asn+(-0.0107)Arg+(0.0062)Pro+(-0.1968)Met+(0.0235)Orn;0.705,0.744,0.682,0.686,0.695,0.746,0.597,0.681,(2.2896)+(-0.0980)Cit+(-0.0098)Arg+(-0.0647)Tyr+(0.0389)Orn+(0.0302)Ile;0.705,0.744,0.739,0.775,0.745,0.773,0.607,0.725,(1.6936)+(0.0043)Gln+(0.0185)Thr+(-0.0210)Arg+(0.0069)Pro+(-0.2954)Met;0.705,0.744,0.777,0.788,0.742,0.807,0.800,0.784,(1.9942)+(-0.1151)Asn+(0.0020)Gly+(-0.0090)Ala+(0.0177)Orn+(0.0473)Phe;0.705,0.750,0.770,0.767,0.753,0.823,0.777,0.780,(2.6531)+(-0.0123)Ala+(-0.0844)Cit+(0.0110)Pro+(-0.0130)Lys+(0.0545)Phe;0.705,0.747,0.764,0.803,0.727,0.774,0.730,0.759,(2.2418)+(-0.0067)Ala+(-0.0686)Cit+(-0.0489)Tyr+(-0.0084)Val+(0.0879)Phe;0.705,0.744,0.762,0.802,0.717,0.781,0.736,0.759,(0.8164)+(0.0036)Gln+(-0.0089)Ala+(-0.0850)Cit+(-0.0539)Tyr+(0.0736)Phe;0.705,0.746,0.789,0.811,0.771,0.835,0.732,0.787,(5.1168)+(-0.0904)Asn+(-0.0041)Ala+(-0.0127)Arg+(-0.0134)Val+(0.0413)Orn;0.705,0.741,0.770,0.787,0.779,0.786,0.694,0.761,(2.0699)+(0.0060)Gln+(-0.0717)Cit+(-0.0041)Arg+(0.0080)Pro+(-0.2410)Met;0.705,0.748,0.784,0.824,0.772,0.818,0.679,0.773,(2.3450)+(-0.0025)Gly+(0.0039)Gln+(0.0180)Thr+(-0.0081)Val+(-0.2593)Met;0.705,0.745,0.642,0.595,0.631,0.736,0.719,0.670,(-2.0009)+(0.0451)Ser+(-0.0082)Gly+(-0.0347)Lys+(0.0389)Ile+(0.0189)Phe;0.705,0.743,0.776,0.802,0.75

3,0.819,0.724,0.775,(3.5496)+(-0.0009)Gly+(-0.0036)Ala+(-0.0087)Val+(-0.1662)Met+(0.0337)Orn;0.705,0.741,0.747,0.768,0.759,0.766,0.655,0.737,(3.3197)+(-0.0607)Asn+(-0.0001)Gly+(0.0169)Thr+(-0.2206)Met+(0.0168)Orn;0.705,0.748,0.789,0.797,0.787,0.787,0.773,0.786,(1.3161)+(-0.1260)Asn+(0.0078)Gln+(-0.0854)Cit+(-0.0134)Lys+(0.0519)Phe;0.705,0.750,0.747,0.785,0.740,0.808,0.615,0.737,(3.2161)+(0.0139)Thr+(-0.0099)Tyr+(-0.0101)Val+(-0.2209)Met+(0.0262)Orn;0.705,0.742,0.786,0.814,0.779,0.783,0.729,0.776,(2.0576)+(-0.0572)Asn+(0.0065)Gln+(-0.0122)Arg+(0.0068)Pro+(-0.2040)Met;0.705,0.738,0.722,0.740,0.738,0.778,0.599,0.714,(3.4204)+(-0.0014)Gly+(-0.1047)Cit+(-0.0541)Tyr+(0.0527)Orn+(-0.0101)Leu;0.705,0.742,0.740,0.735,0.689,0.805,0.814,0.761,(1.1541)+(-0.0136)Ala+(-0.0233)Arg+(0.0061)Pro+(0.0088)Orn+(0.0391)Ile;0.705,0.743,0.785,0.810,0.757,0.833,0.743,0.786,(2.0758)+(0.0036)Gln+(-0.0047)Ala+(-0.1857)Met+(0.0257)Orn+(-0.0070)Lys;0.705,0.745,0.736,0.771,0.712,0.699,0.720,0.726,(2.9178)+(-0.0883)Asn+(0.0050)Pro+(-0.0633)Tyr+(-0.0088)Lys+(0.0702)Phe;0.705,0.745,0.691,0.683,0.643,0.749,0.771,0.711,(0.7474)+(-0.0022)Gly+(-0.0010)Gln+(0.0024)Orn+(0.1445)Ile+(-0.0904)Leu;0.705,0.744,0.789,0.809,0.761,0.834,0.758,0.791,(4.8695)+(-0.0997)Asn+(-0.0043)Ala+(-0.0129)Val+(0.0383)Orn+(-0.0019)Lys;0.705,0.743,0.644,0.615,0.644,0.761,0.636,0.664,(-1.6089)+(0.0396)Ser+(-0.0105)Thr+(-0.0183)Arg+(-0.0243)Lys+(0.0481)Ile;0.705,0.742,0.781,0.795,0.766,0.812,0.752,0.781,(3.7909)+(-0.0504)Asn+(-0.0049)Ala+(-0.1383)Met+(0.0281)Orn+(-0.0001)Leu;0.705,0.749,0.729,0.754,0.673,0.818,0.714,0.740,(-1.1662)+(0.0294)Ser+(-0.0077)Ala+(-0.0095)Val+(-0.0173)Lys+(0.0664)Phe;0.705,0.746,0.810,0.834,0.801,0.833,0.747,0.804,(2.7123)+(0.0064)Gln+(-0.0046)Ala+(-0.0752)Cit+(-0.1600)Met+(-0.0025)Lys;0.705,0.742,0.806,0.836,0.754,0.843,0.806,0.810,(3.7967)+(-0.1158)Asn+(0.0048)Gln+(-0.0069)Ala+(0.0120)Pro+(-0.0126)Val;0.705,0.741,0.684,0.664,0.702,0.76

0,0.645,0.693,(-0.8315)+(0.0412)Ser+(-0.0048)Gly+(-0.0833)Cit+(-0.0271)Lys+(0.0539)Phe;0.705,0.743,0.702,0.760,0.656,0.708,0.641,0.691,(1.0004)+(-0.0010)Gln+(-0.0705)Tyr+(-0.0182)Val+(0.0279)Orn+(0.0779)Phe;0.705,0.748,0.779,0.793,0.784,0.817,0.708,0.775,(4.0313)+(0.0034)Gly+(-0.0058)Ala+(-0.0739)Cit+(-0.1525)Met+(0.0117)Leu;0.705,0.743,0.743,0.763,0.751,0.756,0.661,0.733,(3.5236)+(-0.0553)Asn+(0.0187)Thr+(0.0066)Pro+(-0.2386)Met+(-0.0018)Leu;0.704,0.748,0.739,0.732,0.774,0.826,0.621,0.738,(3.5745)+(-0.1031)Cit+(-0.0044)Arg+(-0.0106)Val+(0.0595)Orn+(-0.0151)Lys;0.704,0.748,0.739,0.747,0.764,0.765,0.649,0.731,(2.5392)+(-0.1038)Asn+(0.0060)Gly+(-0.0818)Cit+(-0.0110)Lys+(0.0608)Phe;0.704,0.743,0.752,0.785,0.758,0.761,0.646,0.737,(4.1056)+(-0.0616)Asn+(-0.0004)Gly+(0.0221)Thr+(-0.0171)Tyr+(-0.1904)Met;0.704,0.742,0.785,0.797,0.776,0.826,0.742,0.785,(5.1293)+(-0.0949)Asn+(0.0151)Thr+(-0.0077)Ala+(-0.0759)Cit+(0.0030)Leu;0.704,0.741,0.751,0.777,0.703,0.795,0.749,0.756,(4.2564)+(-0.0850)Asn+(-0.0086)Ala+(0.0111)Pro+(-0.0385)Tyr+(0.0254)Orn;0.704,0.749,0.734,0.709,0.756,0.784,0.716,0.741,(3.9936)+(-0.0902)Asn+(0.0130)Thr+(-0.0798)Cit+(-0.0176)Lys+(0.0398)Ile;0.704,0.748,0.750,0.783,0.748,0.811,0.623,0.741,(3.2510)+(0.0143)Thr+(-0.0097)Val+(-0.2253)Met+(0.0267)Orn+(-0.0037)Lys;0.704,0.742,0.742,0.766,0.764,0.772,0.615,0.729,(3.6559)+(-0.0514)Asn+(0.0197)Thr+(-0.0152)Arg+(-0.2155)Met+(0.0193)Orn;0.704,0.743,0.579,0.582,0.549,0.684,0.553,0.592,(-0.6765)+(0.0299)Ser+(-0.0044)Gln+(-0.0702)Tyr+(0.0043)Orn+(0.0401)Ile;0.704,0.742,0.579,0.583,0.548,0.683,0.557,0.593,(-0.6792)+(0.0302)Ser+(-0.0043)Gln+(0.0011)Pro+(-0.0704)Tyr+(0.0402)Ile;0.704,0.747,0.821,0.858,0.797,0.823,0.771,0.812,(2.9482)+(-0.0847)Asn+(0.0066)Gln+(-0.0095)Val+(-0.1420)Met+(0.0029)Lys;0.704,0.747,0.643,0.592,0.635,0.749,0.716,0.673,(-1.4325)+(0.0435)Ser+(-0.0084)Gly+(0.0090)Orn+(-0.0338)Lys+(0.0406)Ile;0.704,0.745,0.780,0.817,0.762,0.826,0.687,0

.773,(2.0910)+(0.0038)Gln+(0.0171)Thr+(-0.0041)Ala+(-0.2346)Met+(-0.0053)Lys;0.704,0.741,0.770,0.773,0.738,0.825,0.788,0.781,(3.9778)+(-0.0830)Asn+(-0.0094)Ala+(0.0093)Pro+(0.0253)Orn+(-0.0092)Lys;0.704,0.748,0.710,0.733,0.724,0.803,0.552,0.703,(1.9146)+(0.0294)Ser+(-0.0691)Cit+(-0.0059)Arg+(-0.0307)Tyr+(-0.0124)Lys;0.704,0.744,0.807,0.832,0.800,0.826,0.745,0.801,(2.6069)+(0.0063)Gln+(-0.0047)Ala+(-0.0741)Cit+(-0.0019)Arg+(-0.1667)Met;0.704,0.740,0.744,0.764,0.756,0.777,0.644,0.735,(3.6158)+(-0.0564)Asn+(0.0173)Thr+(-0.2033)Met+(0.0203)Orn+(-0.0062)Lys;0.704,0.742,0.791,0.797,0.758,0.829,0.816,0.800,(5.9458)+(-0.0919)Asn+(-0.0049)Ala+(-0.0489)Cit+(-0.0309)Val+(0.0512)Leu;0.704,0.752,0.736,0.757,0.718,0.805,0.667,0.737,(0.7817)+(0.0380)Ser+(-0.1485)Asn+(0.0027)Gln+(-0.0094)Lys+(-0.0012)Leu;0.704,0.745,0.671,0.700,0.672,0.756,0.531,0.665,(1.0597)+(0.0245)Ser+(-0.0796)Cit+(0.0074)Pro+(-0.0549)Tyr+(-0.0049)Leu;0.704,0.743,0.723,0.777,0.673,0.712,0.691,0.714,(1.3608)+(-0.0038)Gly+(-0.0733)Tyr+(-0.0182)Val+(0.0297)Orn+(0.0762)Phe;0.704,0.743,0.792,0.829,0.778,0.802,0.716,0.781,(3.0727)+(-0.1155)Asn+(0.0014)Gly+(0.0076)Gln+(-0.0776)Cit+(-0.0332)Tyr;0.704,0.742,0.802,0.821,0.758,0.817,0.831,0.807,(1.0511)+(-0.1313)Asn+(0.0014)Gly+(0.0043)Gln+(-0.0086)Ala+(0.0502)Phe;0.704,0.740,0.676,0.663,0.695,0.764,0.609,0.683,(-1.2730)+(0.0382)Ser+(-0.0081)Thr+(-0.0875)Cit+(-0.0241)Lys+(0.0588)Phe;0.704,0.746,0.686,0.679,0.632,0.737,0.784,0.708,(-0.6097)+(-0.0023)Gly+(-0.0028)Orn+(0.1456)Ile+(-0.0961)Leu+(0.0289)Phe;0.704,0.741,0.754,0.780,0.768,0.770,0.649,0.742,(3.8822)+(-0.0562)Asn+(0.0000)Gly+(0.0214)Thr+(-0.2106)Met+(-0.0033)Lys;0.704,0.746,0.777,0.806,0.758,0.762,0.753,0.770,(2.8889)+(-0.1349)Asn+(0.0028)Gly+(-0.0193)Val+(0.0000)Lys+(0.0789)Phe;0.704,0.740,0.731,0.749,0.672,0.796,0.761,0.745,(2.2060)+(-0.0099)Ala+(-0.0197)Arg+(-0.0435)Tyr+(0.0165)Orn+(0.0478)Ile;0.704,0.747,0.735,0.741,0.682,0.804,0.778,0.751,(-0.

9415)+(0.0410)Ser+(-0.0075)Gly+(-0.0087)Ala+(-0.0217)Lys+(0.0525)Phe;0.704,0.751,0.694,0.708,0.709,0.788,0.560,0.691,(1.5925)+(0.0304)Ser+(-0.0763)Cit+(-0.0343)Tyr+(-0.0166)Lys+(0.0082)Leu;0.704,0.746,0.707,0.718,0.698,0.786,0.639,0.710,(1.3148)+(0.0404)Ser+(-0.1395)Asn+(0.0050)Pro+(-0.0095)Lys+(-0.0035)Leu;0.704,0.742,0.741,0.738,0.686,0.805,0.819,0.762,(1.1045)+(0.0009)Gly+(-0.0136)Ala+(-0.0223)Arg+(0.0065)Pro+(0.0424)Ile;0.704,0.748,0.748,0.783,0.760,0.821,0.580,0.736,(3.7698)+(0.0181)Thr+(-0.0195)Arg+(-0.0109)Val+(-0.2186)Met+(0.0294)Orn;0.704,0.742,0.671,0.658,0.698,0.764,0.582,0.676,(-1.1232)+(0.0361)Ser+(-0.0836)Cit+(-0.0081)Arg+(-0.0252)Lys+(0.0578)Phe;0.704,0.747,0.743,0.767,0.723,0.797,0.682,0.742,(0.5808)+(0.0381)Ser+(-0.1599)Asn+(0.0026)Gln+(-0.0044)Thr+(-0.0058)Leu;0.703,0.745,0.776,0.819,0.768,0.818,0.652,0.764,(2.1441)+(0.0045)Gln+(0.0205)Thr+(-0.0040)Ala+(-0.0193)Arg+(-0.2418)Met;0.703,0.741,0.748,0.746,0.691,0.806,0.827,0.768,(0.8191)+(0.0012)Gln+(-0.0137)Ala+(-0.0234)Arg+(0.0062)Pro+(0.0415)Ile;0.703,0.740,0.735,0.741,0.716,0.824,0.699,0.745,(0.8422)+(0.0289)Ser+(-0.0078)Thr+(-0.0091)Ala+(-0.0836)Cit+(0.0059)Leu;0.703,0.745,0.788,0.811,0.779,0.800,0.734,0.781,(2.0725)+(-0.0733)Asn+(0.0053)Gln+(-0.1826)Met+(0.0201)Orn+(-0.0038)Leu;0.703,0.744,0.799,0.814,0.760,0.812,0.832,0.804,(1.2388)+(-0.1413)Asn+(0.0041)Gln+(0.0075)Thr+(-0.0091)Ala+(0.0482)Phe;0.703,0.747,0.772,0.818,0.761,0.817,0.637,0.759,(2.2303)+(0.0035)Gln+(0.0170)Thr+(-0.0056)Tyr+(-0.0076)Val+(-0.2511)Met;0.703,0.739,0.748,0.761,0.749,0.768,0.694,0.743,(3.4899)+(-0.0497)Asn+(0.0067)Pro+(-0.1894)Met+(0.0233)Orn+(-0.0065)Leu;0.703,0.749,0.686,0.664,0.726,0.783,0.588,0.690,(-0.7999)+(0.0317)Ser+(-0.0200)Thr+(-0.0982)Cit+(-0.0138)Arg+(0.0384)Orn;0.703,0.741,0.727,0.756,0.638,0.772,0.804,0.743,(0.8161)+(-0.0011)Gly+(-0.0109)Ala+(-0.0588)Tyr+(0.0431)Ile+(0.0400)Phe;0.703,0.748,0.783,0.808,

0.755,0.835,0.736,0.784,(4.8629)+(-0.1183)Asn+(0.0089)Thr+(-0.0045)Al
a+(-0.0142)Val+(0.0340)Orn;0.703,0.741,0.774,0.796,0.753,0.807,0.738,
0.773,(4.0537)+(-0.0541)Asn+(-0.0046)Ala+(-0.0149)Tyr+(-0.1121)Met+(0
.0300)Orn;0.703,0.750,0.710,0.721,0.664,0.812,0.704,0.725,(-0.9639)+(
0.0337)Ser+(-0.0021)Gln+(-0.0088)Ala+(-0.0202)Lys+(0.0569)Phe;0.703,0
.742,0.746,0.785,0.723,0.714,0.713,0.734,(2.7185)+(-0.0911)Asn+(0.001
4)Gly+(-0.0577)Tyr+(-0.0081)Lys+(0.0739)Phe;0.703,0.739,0.704,0.724,0
.722,0.770,0.566,0.695,(3.1098)+(-0.1049)Cit+(0.0049)Pro+(-0.0585)Tyr
+(0.0500)Orn+(-0.0119)Leu;0.703,0.743,0.790,0.802,0.759,0.817,0.801,0
.795,(2.4784)+(-0.0959)Asn+(0.0023)Gly+(-0.0078)Ala+(-0.0079)Lys+(0.0
591)Phe;0.703,0.742,0.753,0.778,0.765,0.762,0.656,0.740,(3.5664)+(-0.
0582)Asn+(0.0002)Gly+(0.0207)Thr+(-0.2249)Met+(0.0016)Leu;0.703,0.742
,0.728,0.766,0.720,0.755,0.624,0.716,(1.6559)+(0.0031)Gln+(0.0145)Thr
+(0.0078)Pro+(-0.0185)Tyr+(-0.2799)Met;0.703,0.741,0.786,0.802,0.759,
0.800,0.790,0.788,(2.5096)+(-0.1121)Asn+(-0.0075)Ala+(0.0237)Orn+(-0.
0162)Leu+(0.0605)Phe;0.703,0.745,0.707,0.728,0.721,0.802,0.555,0.702,
(1.8714)+(0.0290)Ser+(-0.0006)Thr+(-0.0737)Cit+(-0.0309)Tyr+(-0.0135)
Lys;0.703,0.740,0.718,0.737,0.736,0.780,0.585,0.710,(3.2096)+(-0.0016
)Thr+(-0.1062)Cit+(-0.0522)Tyr+(0.0527)Orn+(-0.0098)Leu;0.703,0.744,0
.788,0.814,0.771,0.832,0.725,0.786,(1.9999)+(0.0042)Gln+(-0.0048)Ala+
(-0.0166)Arg+(-0.1893)Met+(0.0255)Orn;0.703,0.746,0.765,0.761,0.768,0
.755,0.778,0.765,(0.7832)+(-0.1496)Asn+(0.0068)Gln+(-0.0889)Cit+(0.02
04)Ile+(0.0266)Phe;0.703,0.745,0.767,0.804,0.768,0.797,0.647,0.754,(6
.1147)+(-0.1058)Asn+(0.0187)Thr+(-0.0588)Cit+(-0.0296)Tyr+(-0.0085)Va
l;0.703,0.748,0.711,0.737,0.688,0.772,0.644,0.711,(1.0137)+(0.0387)Se
r+(-0.0101)Gly+(-0.0270)Arg+(-0.0598)Tyr+(0.0220)Orn;0.703,0.743,0.77
3,0.804,0.757,0.816,0.691,0.767,(2.2868)+(0.0033)Gln+(-0.0092)Val+(-0
.2037)Met+(0.0289)Orn+(-0.0037)Lys;0.703,0.741,0.723,0.754,0.631,0.77

5,0.796,0.739,(0.4528)+(0.0003)Gln+(-0.0110)Ala+(-0.0587)Tyr+(0.0433)Ile+(0.0397)Phe;0.703,0.746,0.775,0.817,0.753,0.818,0.679,0.767,(1.9358)+(0.0034)Gln+(0.0163)Thr+(-0.0042)Ala+(-0.0066)Tyr+(-0.2399)Met;0.703,0.744,0.742,0.712,0.755,0.781,0.766,0.753,(3.8648)+(-0.0758)Asn+(-0.0798)Cit+(0.0081)Arg+(-0.0166)Lys+(0.0418)Ile;0.703,0.753,0.747,0.766,0.708,0.847,0.708,0.757,(-0.1482)+(0.0292)Ser+(-0.0112)Thr+(-0.0084)Ala+(-0.0232)Arg+(0.0231)Orn;0.703,0.739,0.742,0.777,0.712,0.767,0.691,0.737,(1.8033)+(0.0102)Thr+(-0.0091)Ala+(-0.0823)Cit+(-0.0573)Tyr+(0.0753)Phe;0.703,0.745,0.766,0.788,0.770,0.780,0.687,0.756,(2.2476)+(0.0058)Gln+(-0.0739)Cit+(0.0087)Pro+(-0.0135)Tyr+(-0.2240)Met;0.703,0.737,0.761,0.768,0.782,0.767,0.697,0.753,(4.7033)+(-0.0346)Asn+(-0.0611)Cit+(0.0082)Pro+(-0.1729)Met+(-0.0003)Leu;0.702,0.743,0.755,0.781,0.745,0.815,0.667,0.752,(3.1260)+(0.0146)Thr+(-0.0047)Ala+(-0.2081)Met+(0.0231)Orn+(-0.0069)Lys;0.702,0.738,0.719,0.739,0.699,0.761,0.680,0.720,(-0.7826)+(0.0373)Ser+(-0.0074)Gly+(-0.0325)Arg+(-0.0184)Val+(0.0540)Phe;0.702,0.741,0.738,0.746,0.726,0.833,0.673,0.744,(1.0870)+(0.0268)Ser+(-0.0091)Ala+(-0.0782)Cit+(-0.0101)Arg+(0.0045)Leu;0.702,0.746,0.760,0.775,0.722,0.837,0.745,0.770,(1.2945)+(0.0399)Ser+(-0.0077)Gly+(-0.0064)Ala+(-0.0166)Arg+(-0.0124)Lys;0.702,0.748,0.633,0.580,0.628,0.741,0.705,0.663,(-0.8547)+(0.0463)Ser+(-0.0075)Gly+(-0.0022)Gln+(-0.0313)Lys+(0.0446)Ile;0.702,0.744,0.753,0.784,0.706,0.799,0.733,0.756,(4.5930)+(-0.0955)Asn+(0.0124)Thr+(-0.0085)Ala+(0.0119)Pro+(-0.0390)Tyr;0.702,0.742,0.709,0.696,0.668,0.803,0.760,0.732,(0.8205)+(0.0411)Ser+(-0.0091)Gly+(-0.0310)Val+(-0.0215)Lys+(0.0462)Leu;0.702,0.739,0.743,0.768,0.739,0.761,0.670,0.734,(1.3973)+(-0.0015)Gly+(0.0035)Gln+(0.0142)Thr+(0.0066)Pro+(-0.3058)Met;0.702,0.739,0.677,0.682,0.682,0.736,0.608,0.677,(1.6481)+(0.0008)Gln+(-0.1070)Cit+(-0.0692)Tyr+(0.0368)Orn+(0.0302)Ile;0.702,0.752,0.709,0.740,0.642,0.831,0.680,0.

723,(1.0713)+(0.0271)Ser+(-0.0091)Ala+(0.0131)Pro+(-0.0327)Tyr+(-0.0135)Lys;0.702,0.744,0.807,0.831,0.798,0.825,0.747,0.801,(2.5874)+(0.0062)Gln+(-0.0048)Ala+(-0.0755)Cit+(0.0007)Tyr+(-0.1691)Met;0.702,0.743,0.753,0.772,0.766,0.793,0.647,0.744,(4.3371)+(0.0027)Gly+(-0.0613)Cit+(0.0111)Pro+(-0.0075)Val+(-0.1958)Met;0.702,0.741,0.720,0.743,0.740,0.763,0.588,0.708,(2.8222)+(0.0175)Thr+(-0.0187)Arg+(0.0065)Pro+(-0.2768)Met+(0.0156)Orn;0.702,0.741,0.746,0.761,0.734,0.837,0.665,0.749,(1.1545)+(0.0257)Ser+(0.0007)Gln+(-0.0085)Ala+(-0.0764)Cit+(-0.0110)Arg;0.702,0.743,0.742,0.787,0.689,0.703,0.762,0.735,(0.9313)+(-0.1269)Asn+(0.0047)Gln+(-0.0693)Tyr+(0.0218)Ile+(0.0535)Phe;0.702,0.742,0.761,0.798,0.729,0.776,0.719,0.756,(2.1498)+(-0.0076)Ala+(-0.0747)Cit+(-0.0498)Tyr+(-0.0069)Leu+(0.0826)Phe;0.702,0.741,0.747,0.743,0.691,0.805,0.832,0.768,(1.3217)+(-0.0018)Thr+(-0.0136)Ala+(-0.0206)Arg+(0.0066)Pro+(0.0422)Ile;0.702,0.740,0.787,0.806,0.758,0.810,0.782,0.789,(2.2488)+(-0.0983)Asn+(0.0028)Gly+(-0.0082)Ala+(-0.0115)Arg+(0.0571)Phe;0.702,0.739,0.675,0.678,0.682,0.737,0.607,0.676,(1.9434)+(-0.1061)Cit+(-0.0005)Pro+(-0.0678)Tyr+(0.0380)Orn+(0.0307)Ile;0.702,0.748,0.773,0.811,0.763,0.830,0.653,0.764,(3.6387)+(0.0198)Thr+(-0.0032)Ala+(-0.0057)Val+(-0.2171)Met+(-0.0012)Lys;0.702,0.740,0.720,0.752,0.720,0.740,0.623,0.709,(2.9886)+(-0.0012)Gly+(0.0177)Thr+(0.0081)Pro+(-0.0210)Tyr+(-0.2615)Met;0.702,0.743,0.788,0.798,0.759,0.815,0.800,0.793,(2.8241)+(-0.1082)Asn+(0.0132)Thr+(-0.0084)Ala+(-0.0110)Lys+(0.0574)Phe;0.702,0.743,0.623,0.582,0.611,0.737,0.674,0.651,(-2.7745)+(0.0407)Ser+(-0.0161)Thr+(-0.0294)Lys+(0.0443)Ile+(0.0214)Phe;0.702,0.743,0.741,0.756,0.730,0.816,0.673,0.744,(1.1352)+(0.0335)Ser+(-0.0088)Gly+(-0.0316)Arg+(-0.0164)Val+(0.0263)Orn;0.702,0.746,0.818,0.858,0.792,0.823,0.764,0.809,(3.0867)+(-0.0823)Asn+(0.0068)Gln+(-0.0063)Tyr+(-0.0085)Val+(-0.1258)Met;0.702,0.742,0.711,0.726,0.700,0.776,0.653,0.713,(1.0764

)+(0.0407)Ser+(-0.1490)Asn+(-0.0057)Thr+(0.0053)Pro+(-0.0083)Leu;0.702,0.746,0.698,0.678,0.611,0.821,0.846,0.739,(-1.9868)+(0.0327)Ser+(-0.0066)Gly+(-0.0141)Ala+(-0.0045)Orn+(0.0478)Ile;0.702,0.744,0.792,0.812,0.782,0.840,0.723,0.789,(5.0844)+(-0.0712)Asn+(0.0036)Gly+(-0.0060)Ala+(-0.0724)Cit+(-0.0016)Lys;0.702,0.744,0.725,0.723,0.708,0.764,0.740,0.734,(0.2424)+(0.0462)Ser+(-0.1741)Asn+(-0.0061)Gly+(0.0024)Gln+(0.0020)Pro;0.702,0.742,0.740,0.753,0.764,0.770,0.635,0.730,(3.5921)+(0.0034)Gly+(-0.0701)Cit+(0.0087)Pro+(-0.2202)Met+(0.0020)Leu;0.702,0.752,0.726,0.746,0.664,0.817,0.738,0.741,(-1.5579)+(0.0338)Ser+(-0.0079)Thr+(-0.0085)Ala+(-0.0185)Lys+(0.0555)Phe;0.702,0.740,0.762,0.786,0.749,0.808,0.693,0.759,(2.8588)+(-0.0011)Gly+(0.0144)Thr+(-0.0050)Ala+(-0.2288)Met+(0.0196)Orn;0.702,0.740,0.738,0.771,0.741,0.759,0.632,0.726,(3.7346)+(-0.0662)Asn+(0.0176)Thr+(-0.0220)Tyr+(-0.1815)Met+(0.0197)Orn;0.702,0.736,0.673,0.663,0.694,0.766,0.586,0.677,(-1.0815)+(0.0345)Ser+(-0.0890)Cit+(-0.0256)Lys+(-0.0046)Leu+(0.0611)Phe;0.702,0.742,0.674,0.662,0.576,0.808,0.815,0.715,(-2.3729)+(0.0240)Ser+(-0.0153)Ala+(0.0053)Pro+(-0.0073)Orn+(0.0452)Ile;0.702,0.741,0.698,0.685,0.729,0.792,0.599,0.701,(-0.2198)+(0.0286)Ser+(-0.0216)Thr+(-0.1074)Cit+(0.0445)Orn+(-0.0117)Leu;0.702,0.737,0.763,0.788,0.726,0.815,0.736,0.766,(3.0017)+(0.0033)Gln+(-0.0109)Ala+(-0.0838)Cit+(0.0137)Pro+(-0.0367)Tyr;0.702,0.742,0.633,0.609,0.640,0.750,0.599,0.649,(-2.1967)+(0.0375)Ser+(-0.0244)Arg+(-0.0290)Lys+(0.0405)Ile+(0.0249)Phe;0.702,0.748,0.726,0.732,0.660,0.860,0.749,0.750,(0.7783)+(0.0288)Ser+(-0.0068)Ala+(-0.0283)Val+(-0.0172)Lys+(0.0498)Leu;0.702,0.741,0.782,0.829,0.740,0.789,0.738,0.774,(3.8885)+(-0.1206)Asn+(0.0056)Gln+(0.0092)Pro+(-0.0327)Tyr+(-0.0136)Val;0.702,0.741,0.697,0.713,0.682,0.823,0.596,0.704,(0.2979)+(0.0227)Ser+(-0.0318)Arg+(-0.0341)Val+(0.0251)Orn+(0.0354)Leu;0.702,0.741,0.743,0.755,0.766,0.774,0.636,0.733,(3.7927)+(0.0033)

Gly+(-0.0689)Cit+(0.0090)Pro+(-0.2097)Met+(-0.0015)Lys;0.702,0.742,0.749,0.784,0.714,0.780,0.708,0.746,(1.7167)+(0.0021)Gly+(-0.0086)Ala+(-0.0811)Cit+(-0.0482)Tyr+(0.0762)Phe;0.702,0.737,0.758,0.771,0.762,0.781,0.695,0.752,(3.5831)+(-0.0473)Asn+(0.0006)Gly+(-0.1637)Met+(0.0274)Orn+(-0.0053)Lys;0.702,0.748,0.772,0.812,0.761,0.829,0.648,0.763,(3.6217)+(0.0196)Thr+(-0.0032)Ala+(-0.0032)Tyr+(-0.0058)Val+(-0.2161)Met;0.702,0.742,0.667,0.676,0.668,0.718,0.602,0.666,(0.9649)+(-0.1066)Cit+(-0.0805)Tyr+(0.0359)Orn+(0.0229)Ile+(0.0398)Phe;0.702,0.741,0.749,0.770,0.761,0.772,0.651,0.739,(3.4154)+(-0.0622)Asn+(0.0165)Thr+(-0.2136)Met+(0.0179)Orn+(-0.0021)Leu;0.702,0.744,0.721,0.741,0.715,0.773,0.644,0.718,(1.7639)+(0.0376)Ser+(-0.0079)Gly+(-0.0555)Cit+(-0.0145)Arg+(-0.0481)Tyr;0.702,0.741,0.822,0.854,0.797,0.837,0.778,0.817,(2.4915)+(-0.0623)Asn+(0.0068)Gln+(-0.0036)Ala+(-0.0101)Arg+(-0.1408)Met;0.702,0.747,0.714,0.737,0.724,0.806,0.564,0.708,(1.5621)+(0.0271)Ser+(0.0014)Gln+(-0.0766)Cit+(-0.0324)Tyr+(-0.0144)Lys;0.701,0.741,0.713,0.731,0.700,0.761,0.659,0.713,(1.3708)+(0.0371)Ser+(-0.0074)Gly+(-0.0057)Thr+(-0.0662)Cit+(-0.0476)Tyr;0.701,0.738,0.781,0.817,0.723,0.810,0.787,0.784,(3.2331)+(-0.0995)Asn+(0.0047)Gln+(-0.0082)Ala+(0.0114)Pro+(-0.0355)Tyr;0.701,0.745,0.723,0.764,0.706,0.700,0.665,0.709,(2.9636)+(-0.1137)Asn+(0.0208)Thr+(-0.0713)Tyr+(-0.0131)Lys+(0.0808)Phe;0.701,0.740,0.793,0.815,0.784,0.836,0.723,0.789,(5.8488)+(-0.0999)Asn+(0.0167)Thr+(-0.0055)Ala+(-0.0661)Cit+(-0.0066)Val;0.701,0.737,0.743,0.757,0.724,0.835,0.681,0.749,(1.3370)+(0.0275)Ser+(-0.0063)Thr+(-0.0077)Ala+(-0.0783)Cit+(-0.0021)Val;0.701,0.744,0.772,0.804,0.750,0.810,0.704,0.767,(1.5737)+(0.0033)Gln+(0.0164)Thr+(-0.0049)Ala+(-0.2631)Met+(0.0072)Leu;0.701,0.739,0.673,0.676,0.681,0.736,0.604,0.674,(1.9070)+(0.0002)Gly+(-0.1063)Cit+(-0.0682)Tyr+(0.0378)Orn+(0.0304)Ile;0.701,0.738,0.710,0.725,0.733,0.765,0.580,0.701,(3.1413)+(-0.0006)Gly+(-0.

0983)Cit+(-0.0096)Arg+(-0.0564)Tyr+(0.0487)Orn;0.701,0.744,0.817,0.851,0.786,0.828,0.783,0.812,(2.5667)+(-0.0697)Asn+(0.0063)Gln+(-0.0036)Ala+(-0.0084)Tyr+(-0.1331)Met;0.701,0.748,0.724,0.730,0.707,0.783,0.701,0.730,(2.1270)+(0.0043)Gln+(-0.0830)Cit+(-0.0495)Tyr+(-0.0203)Lys+(0.0519)Ile;0.701,0.744,0.787

,0.800,0.765,0.804,0.786,0.789,(2.6176)+(-0.1106)Asn+(0.0132)Thr+(-0.0089)Ala+(-0.0155)Arg+(0.0537)Phe;0.701,0.740,0.747,0.766,0.734,0.843,0.653,0.749,(1.6168)+(0.0262)Ser+(-0.0076)Ala+(-0.0708)Cit+(-0.0107)Arg+(-0.0031)Val;0.701,0.752,0.711,0.721,0.665,0.808,0.713,0.727,(-1.4627)+(0.0296)Ser+(-0.0094)Ala+(0.0171)Orn+(-0.0234)Lys+(0.0504)Phe;0.701,0.741,0.724,0.750,0.678,0.836,0.673,0.734,(0.2735)+(0.0270)Ser+(-0.0108)Ala+(-0.0265)Arg+(0.0118)Pro+(-0.0059)Leu;0.701,0.739,0.739,0.784,0.693,0.768,0.699,0.736,(1.3826)+(-0.0082)Ala+(-0.0219)Arg+(-0.0563)Tyr+(0.0243)Orn+(0.0629)Phe;0.701,0.747,0.671,0.659,0.574,0.800,0.812,0.711,(-2.7417)+(0.0232)Ser+(-0.0156)Ala+(0.0048)Pro+(0.0406)Ile+(0.0085)Phe;0.701,0.739,0.698,0.714,0.720,0.760,0.564,0.690,(2.9509)+(-0.0975)Cit+(-0.0103)Arg+(0.0034)Pro+(-0.0601)Tyr+(0.0465)Orn;0.701,0.743,0.789,0.806,0.736,0.827,0.827,0.799,(5.5849)+(-0.1009)Asn+(-0.0039)Ala+(-0.0114)Tyr+(-0.0354)Val+(0.0561)Leu;0.701,0.741,0.753,0.792,0.732,0.721,0.720,0.741,(3.0025)+(-0.0822)Asn+(-0.0069)Arg+(-0.0576)Tyr+(-0.0066)Lys+(0.0731)Phe;0.701,0.740,0.797,0.831,0.780,0.837,0.713,0.790,(3.6498)+(-0.1236)Asn+(0.0053)Gln+(-0.0181)Arg+(-0.0167)Val+(0.0355)Orn;0.701,0.737,0.778,0.811,0.730,0.817,0.765,0.781,(5.5342)+(-0.0799)Asn+(-0.0066)Ala+(0.0142)Pro+(-0.0239)Tyr+(-0.0100)Val;0.701,0.739,0.772,0.789,0.756,0.818,0.728,0.773,(3.3188)+(-0.0004)Gly+(-0.0048)Ala+(-0.1654)Met+(0.0299)Orn+(-0.0059)Lys;0.701,0.738,0.749,0.752,0.728,0.819,0.737,0.759,(1.2637)+(0.0339)Ser+(-0.0045)Gly+(-0.0072)Thr+(-0.0082)Ala+(-0.0754)Cit;0.701,0.743,0.757,0.785,0.757,0.815,0.6

40,0.749,(3.2927)+(0.0177)Thr+(-0.0048)Ala+(-0.0177)Arg+(-0.2168)Met+(0.0227)Orn;0.701,0.741,0.781,0.811,0.761,0.816,0.719,0.777,(2.3379)+(-0.0020)Gly+(0.0034)Gln+(-0.0103)Val+(-0.2111)Met+(0.0285)Orn;0.701,0.745,0.770,0.800,0.746,0.819,0.706,0.768,(3.4957)+(-0.0035)Ala+(-0.0061)Tyr+(-0.0084)Val+(-0.1593)Met+(0.0337)Orn;0.701,0.743,0.718,0.728,0.694,0.747,0.724,0.723,(3.6178)+(-0.0729)Asn+(-0.0491)Tyr+(0.0236)Orn+(-0.0144)Lys+(0.0376)Ile;0.701,0.741,0.793,0.805,0.742,0.833,0.836,0.804,(5.4634)+(-0.1040)Asn+(-0.0043)Ala+(-0.0020)Arg+(-0.0365)Val+(0.0567)Leu;0.701,0.743,0.756,0.780,0.754,0.787,0.672,0.748,(1.5452)+(0.0043)Gln+(-0.0174)Arg+(0.0066)Pro+(-0.2531)Met+(0.0178)Orn;0.701,0.738,0.746,0.757,0.725,0.830,0.696,0.752,(0.9755)+(0.0275)Ser+(0.0006)Gln+(-0.0075)Thr+(-0.0083)Ala+(-0.0819)Cit;0.701,0.746,0.822,0.858,0.797,0.825,0.774,0.814,(3.0182)+(-0.0809)Asn+(-0.0004)Gly+(0.0068)Gln+(-0.0088)Val+(-0.1368)Met;0.701,0.742,0.750,0.752,0.693,0.812,0.820,0.769,(0.4992)+(0.0012)Gly+(-0.0128)Ala+(-0.0229)Arg+(0.0436)Ile+(0.0189)Phe;0.701,0.738,0.761,0.768,0.782,0.768,0.696,0.753,(4.7160)+(-0.0341)Asn+(-0.0610)Cit+(0.0082)Pro+(-0.1723)Met+(-0.0005)Lys;0.701,0.742,0.760,0.772,0.772,0.767,0.695,0.752,(4.9812)+(-0.0366)Asn+(-0.0598)Cit+(0.0089)Pro+(-0.0158)Tyr+(-0.1467)Met;0.701,0.739,0.737,0.747,0.740,0.775,0.675,0.734,(2.8555)+(-0.0000)Gly+(0.0067)Pro+(-0.2271)Met+(0.0231)Orn+(-0.0070)Lys;0.701,0.740,0.664,0.646,0.690,0.764,0.585,0.671,(-1.1789)+(0.0353)Ser+(-0.0905)Cit+(0.0016)Pro+(-0.0275)Lys+(0.0555)Phe;0.701,0.738,0.764,0.792,0.751,0.779,0.703,0.756,(4.8019)+(-0.0551)Asn+(0.0015)Gly+(0.0111)Pro+(-0.0114)Val+(-0.1502)Met;0.701,0.739,0.718,0.749,0.721,0.751,0.608,0.707,(3.1728)+(0.0180)Thr+(0.0082)Pro+(-0.0185)Tyr+(-0.2484)Met+(-0.0052)Lys;0.701,0.741,0.776,0.809,0.760,0.786,0.717,0.768,(2.2760)+(-0.0752)Asn+(0.0053)Gln+(-0.0193)Tyr+(-0.1567)Met+(0.0211)Orn;0.701,0.740,0.759,0.763,0.701,0.811,0.831,0.777,

(0.2388)+(0.0014)Gln+(-0.0128)Ala+(-0.0241)Arg+(0.0426)Ile+(0.0169)Phe;0.701,0.739,0.761,0.774,0.771,0.784,0.686,0.754,(3.8054)+(-0.0412)Asn+(-0.0089)Arg+(-0.1589)Met+(0.0294)Orn+(-0.0043)Lys;0.701,0.741,0.635,0.607,0.650,0.759,0.592,0.652,(-1.4122)+(0.0350)Ser+(-0.0237)Arg+(0.0097)Orn+(-0.0279)Lys+(0.0433)Ile;0.701,0.741,0.717,0.746,0.629,0.769,0.787,0.733,(0.5045)+(-0.0110)Ala+(-0.0593)Tyr+(0.0063)Orn+(0.0414)Ile+(0.0386)Phe;0.701,0.739,0.716,0.738,0.732,0.783,0.576,0.707,(2.7632)+(0.0010)Gln+(-0.1075)Cit+(-0.0546)Tyr+(0.0505)Orn+(-0.0099)Leu;0.701,0.737,0.749,0.770,0.722,0.811,0.704,0.752,(4.0415)+(0.0071)Thr+(-0.0109)Ala+(-0.0810)Cit+(0.0139)Pro+(-0.0381)Tyr;0.700,0.747,0.725,0.708,0.758,0.807,0.645,0.729,(1.8977)+(-0.1088)Cit+(-0.0141)Val+(0.0583)Orn+(-0.0202)Lys+(0.0552)Phe;0.700,0.741,0.748,0.792,0.723,0.770,0.671,0.739,(5.5203)+(-0.1157)Asn+(0.0147)Thr+(0.0095)Pro+(-0.0365)Tyr+(-0.0141)Val;0.700,0.741,0.792,0.803,0.740,0.833,0.841,0.804,(5.4099)+(-0.1073)Asn+(-0.0044)Ala+(-0.0369)Val+(0.0005)Lys+(0.0572)Leu;0.700,0.741,0.746,0.784,0.760,0.764,0.604,0.728,(4.3830)+(-0.0540)Asn+(0.0249)Thr+(-0.0131)Arg+(-0.0166)Tyr+(-0.1858)Met;0.700,0.742,0.800,0.835,0.784,0.806,0.735,0.790,(3.2577)+(-0.1121)Asn+(0.0078)Gln+(-0.0749)Cit+(-0.0330)Tyr+(-0.0025)Leu;0.700,0.739,0.751,0.782,0.769,0.769,0.616,0.734,(3.9964)+(-0.0507)Asn+(0.0002)Gly+(0.0237)Thr+(-0.0131)Arg+(-0.2154)Met;0.700,0.742,0.787,0.801,0.780,0.828,0.735,0.786,(5.2663)+(-0.0944)Asn+(0.0153)Thr+(-0.0073)Ala+(-0.0744)Cit+(-0.0002)Arg;0.700,0.743,0.797,0.807,0.798,0.814,0.758,0.794,(5.0917)+(-0.0330)Asn+(-0.0053)Ala+(-0.0651)Cit+(-0.1111)Met+(0.0086)Leu;0.700,0.739,0.666,0.649,0.691,0.764,0.585,0.672,(-1.0152)+(0.0358)Ser+(-0.0005)Gln+(-0.0893)Cit+(-0.0268)Lys+(0.0577)Phe;0.700,0.735,0.752,0.753,0.698,0.816,0.814,0.770,(0.7015)+(0.0012)Gln+(-0.0125)Ala+(-0.0244)Arg+(0.0093)Orn+(0.0431)Ile;0.700,0.744,0.713,0.706,0.732,0.756,0.665,0.715,(2.6417)+

(-0.1132)Asn+(0.0058)Gly+(-0.0851)Cit+(-0.0015)Pro+(0.0357)Ile;0.700,0.744,0.705,0.765,0.655,0.710,0.646,0.694,(0.6418)+(-0.0005)Thr+(-0.0712)Tyr+(-0.0182)Val+(0.0265)Orn+(0.0768)Phe;0.700,0.742,0.697,0.705,0.689,0.764,0.648,0.701,(0.0219)+(0.0386)Ser+(-0.1777)Asn+(0.0014)Gln+(0.0017)Pro+(0.0109)Orn;0.700,0.739,0.757,0.778,0.751,0.799,0.684,0.753,(3.1347)+(0.0209)Thr+(-0.0049)Ala+(-0.2346)Met+(-0.0071)Lys+(0.0112)Leu;0.700,0.741,0.708,0.739,0.709,0.743,0.601,0.698,(2.5209)+(0.0137)Thr+(0.0075)Pro+(-0.0219)Tyr+(-0.2605)Met+(0.0144)Orn;0.700,0.737,0.763,0.787,0.753,0.803,0.692,0.759,(3.5273)+(-0.0011)Gly+(-0.0100)Val+(-0.1829)Met+(0.0339)Orn+(-0.0024)Lys;0.700,0.735,0.680,0.677,0.690,0.769,0.604,0.685,(-0.8783)+(0.0331)Ser+(-0.0803)Cit+(-0.0089)Val+(-0.0224)Lys+(0.0682)Phe;0.700,0.740,0.723,0.750,0.740,0.761,0.587,0.710,(3.1308)+(-0.0002)Gly+(0.0207)Thr+(-0.0170)Arg+(0.0073)Pro+(-0.2784)Met;0.700,0.742,0.750,0.783,0.757,0.766,0.636,0.736,(4.2048)+(-0.0599)Asn+(0.0224)Thr+(-0.0159)Tyr+(-0.1840)Met+(-0.0028)Lys;0.700,0.739,0.676,0.679,0.683,0.736,0.613,0.678,(1.9823)+(-0.0012)Thr+(-0.1058)Cit+(-0.0673)Tyr+(0.0385)Orn+(0.0302)Ile;0.700,0.744,0.766,0.776,0.753,0.831,0.721,0.770,(1.8835)+(0.0037)Gly+(-0.0095)Ala+(-0.0878)Cit+(-0.0127)Lys+(0.0649)Phe;0.700,0.742,0.789,0.800,0.767,0.833,0.778,0.794,(1.2047)+(0.0040)Gln+(-0.0097)Ala+(-0.0890)Cit+(-0.0147)Lys+(0.0582)Phe;0.700,0.741,0.746,0.796,0.706,0.705,0.724,0.733,(1.1664)+(-0.1306)Asn+(0.0045)Gln+(-0.0685)Tyr+(0.0153)Orn+(0.0621)Phe;0.700,0.738,0.791,0.816,0.758,0.802,0.787,0.791,(2.3240)+(-0.1100)Asn+(0.0024)Gly+(-0.0072)Ala+(-0.0123)Leu+(0.0671)Phe;0.700,0.742,0.721,0.752,0.630,0.771,0.793,0.736,(0.5453)+(0.0008)Thr+(-0.0110)Ala+(-0.0591)Tyr+(0.0433)Ile+(0.0400)Phe;0.700,0.740,0.719,0.736,0.730,0.769,0.618,0.713,(2.6939)+(0.0138)Thr+(0.0063)Pro+(-0.2635)Met+(0.0170)Orn+(-0.0080)Lys;0.700,0.735,0.773,0.780,0.746,0.822,0.774,0.780,(3.7455)+(-0.0844)Asn+(-

0.0098)Ala+(-0.0133)Arg+(0.0092)Pro+(0.0235)Orn;0.700,0.734,0.805,0.833,0.791,0.802,0.759,0.796,(2.1797)+(-0.0667)Asn+(-0.0001)Gly+(0.0065)Gln+(-0.1751)Met+(-0.0028)Lys;0.700,0.741,0.776,0.805,0.749,0.808,0.735,0.774,(3.6075)+(-0.1421)Asn+(0.0039)Gln+(0.0062)Pro+(-0.0191)Val+(0.0301)Orn;0.700,0.739,0.754,0.774,0.728,0.815,0.712,0.757,(3.9756)+(0.0017)Gly+(-0.0108)Ala+(-0.0806)Cit+(0.0144)Pro+(-0.0316)Tyr;0.700,0.735,0.812,0.839,0.774,0.806,0.827,0.812,(1.3493)+(-0.1295)Asn+(0.0047)Gln+(-0.0073)Ala+(-0.0132)Leu+(0.0620)Phe;0.700,0.741,0.775,0.790,0.781,0.791,0.710,0.768,(5.6043)+(-0.0453)Asn+(-0.0523)Cit+(0.0108)Pro+(-0.0091)Val+(-0.1396)Met;0.700,0.742,0.710,0.731,0.696,0.757,0.652,0.709,(1.3148)+(0.0343)Ser+(-0.0078)Gly+(0.0005)Gln+(-0.0690)Cit+(-0.0535)Tyr;0.700,0.744,0.653,0.610,0.637,0.755,0.726,0.682,(-1.2801)+(0.0437)Ser+(-0.0080)Gly+(-0.0037)Pro+(-0.0323)Lys+(0.0481)Ile;0.700,0.743,0.742,0.753,0.751,0.780,0.665,0.737,(3.1510)+(-0.0115)Arg+(0.0068)Pro+(-0.2171)Met+(0.0253)Orn+(-0.0052)Lys;0.700,0.742,0.772,0.775,0.764,0.829,0.737,0.776,(2.3896)+(0.0108)Thr+(-0.0101)Ala+(-0.0870)Cit+(-0.0158)Lys+(0.0607)Phe;0.700,0.741,0.788,0.807,0.775,0.833,0.732,0.787,(4.9129)+(-0.0793)Asn+(0.0037)Gly+(-0.0064)Ala+(-0.0774)Cit+(0.0054)Arg;0.700,0.740,0.741,0.789,0.720,0.702,0.686,0.724,(2.5332)+(-0.0945)Asn+(0.0018)Gly+(-0.0112)Arg+(-0.0594)Tyr+(0.0710)Phe;0.700,0.739,0.765,0.772,0.750,0.838,0.722,0.771,(3.8233)+(0.0029)Gly+(-0.0114)Ala+(-0.0852)Cit+(0.0131)Pro+(-0.0084)Lys;0.700,0.746,0.741,0.734,0.771,0.832,0.627,0.741,(2.9693)+(0.0014)Gln+(-0.1088)Cit+(-0.0100)Val+(0.0581)Orn+(-0.0176)Lys;0.700,0.742,0.769,0.806,0.749,0.812,0.684,0.763,(2.3041)+(0.0030)Gln+(-0.0080)Tyr+(-0.0098)Val+(-0.2005)Met+(0.0284)Orn;0.700,0.740,0.823,0.869,0.774,0.848,0.784,0.819,(3.6311)+(-0.1099)Asn+(0.0061)Gln+(-0.0033)Ala+(-0.0201)Tyr+(-0.0086)Val;0.700,0.741,0.710,0.720,0.695,0.767,0.674,0.714,(-0.0619)+(0.0411)Ser+(-0.1631)As

n+(0.0021)Gln+(-0.0074)Thr+(0.0034)Pro;0.700,0.741,0.779,0.813,0.770,0.831,0.672,0.772,(2.4836)+(0.0041)Gln+(-0.0180)Arg+(-0.0103)Val+(-0.1925)Met+(0.0319)Orn;0.700,0.743,0.728,0.763,0.695,0.705,0.722,0.721,(2.4892)+(-0.0870)Asn+(-0.0119)Arg+(-0.0649)Tyr+(0.0256)Ile+(0.0537)Phe;0.700,0.741,0.796,0.821,0.784,0.842,0.722,0.792,(5.4260)+(-0.0756)Asn+(0.0032)Gly+(-0.0049)Ala+(-0.0662)Cit+(-0.0044)Val;0.700,0.736,0.770,0.797,0.751,0.741,0.760,0.762,(3.6144)+(-0.1214)Asn+(-0.0099)Arg+(0.0066)Pro+(-0.0208)Val+(0.0717)Phe;0.700,0.739,0.758,0.812,0.715,0.702,0.745,0.743,(1.0682)+(-0.1297)Asn+(0.0001)Gly+(0.0052)Gln+(-0.0660)Tyr+(0.0669)Phe;0.699,0.742,0.741,0.778,0.749,0.766,0.606,0.725,(5.1287)+(-0.1045)Asn+(0.0018)Gly+(0.0161)Thr+(-0.0700)Cit+(-0.0384)Tyr;0.699,0.741,0.713,0.734,0.733,0.771,0.575,0.703,(2.4119)+(0.0018)Gln+(-0.0991)Cit+(-0.0121)Arg+(-0.0574)Tyr+(0.0460)Orn;0.699,0.741,0.761,0.786,0.751,0.794,0.691,0.755

,(2.8567)+(-0.0006)Gly+(0.0193)Thr+(-0.0050)Ala+(-0.2474)Met+(0.0076)Leu;0.699,0.740,0.778,0.792,0.743,0.803,0.797,0.784,(2.0905)+(-0.1251)Asn+(0.0019)Gly+(0.0087)Thr+(-0.0090)Ala+(0.0528)Phe;0.699,0.744,0.737,0.768,0.738,0.755,0.641,0.725,(4.7371)+(-0.0848)Asn+(0.0033)Gly+(-0.0688)Cit+(0.0070)Pro+(-0.0367)Tyr;0.699,0.736,0.727,0.748,0.736,0.761,0.629,0.718,(2.9693)+(-0.0006)Gly+(0.0175)Thr+(0.0072)Pro+(-0.2717)Met+(-0.0056)Lys;0.699,0.747,0.728,0.747,0.702,0.842,0.650,0.736,(0.3216)+(0.0267)Ser+(-0.0015)Gln+(-0.0089)Ala+(-0.0264)Arg+(0.0199)Orn;0.699,0.739,0.642,0.617,0.646,0.764,0.612,0.660,(-1.3271)+(0.0356)Ser+(-0.0220)Arg+(-0.0030)Pro+(-0.0267)Lys+(0.0499)Ile;0.699,0.737,0.752,0.774,0.751,0.771,0.684,0.745,(3.9948)+(-0.0507)Asn+(-0.0191)Tyr+(-0.1282)Met+(0.0303)Orn+(-0.0051)Lys;0.699,0.744,0.711,0.734,0.721,0.807,0.560,0.705,(2.0229)+(0.0280)Ser+(-0.0717)Cit+(-0.0295)Tyr+(-0.0022)Val+(-0.0125)Lys;0.699,0.743,0.706,0.694,0.732,0.748,0.653,0.707,(2.

6193)+(-0.1257)Asn+(0.0055)Gly+(0.0059)Thr+(-0.0871)Cit+(0.0324)Ile;0
.699,0.742,0.631,0.645,0.575,0.706,0.654,0.645,(-1.9685)+(0.0323)Ser+
(-0.0170)Thr+(0.0013)Pro+(-0.0615)Tyr+(0.0392)Ile;0.699,0.747,0.773,0
.817,0.763,0.823,0.640,0.761,(2.2284)+(0.0037)Gln+(0.0173)Thr+(-0.007
2)Val+(-0.2526)Met+(-0.0027)Lys;0.699,0.743,0.779,0.785,0.748,0.808,0
.807,0.787,(2.2493)+(-0.1208)Asn+(0.0064)Thr+(-0.0093)Ala+(0.0153)Orn
+(0.0453)Phe;0.699,0.742,0.795,0.824,0.769,0.827,0.751,0.793,(3.5662)
+(-0.1374)Asn+(-0.0007)Gly+(0.0044)Gln+(-0.0170)Val+(0.0321)Orn;0.699
,0.741,0.733,0.776,0.711,0.684,0.700,0.718,(2.7725)+(-0.0908)Asn+(-0.
0113)Arg+(0.0049)Pro+(-0.0657)Tyr+(0.0664)Phe;0.699,0.738,0.762,0.789
,0.765,0.806,0.652,0.753,(3.7793)+(-0.0145)Arg+(-0.0107)Val+(-0.1715)
Met+(0.0366)Orn+(0.0004)Lys;0.699,0.743,0.768,0.784,0.745,0.822,0.731
,0.771,(4.6892)+(-0.0101)Ala+(-0.0746)Cit+(0.0142)Pro+(-0.0284)Tyr+(-
0.0051)Lys;0.699,0.741,0.760,0.771,0.741,0.800,0.738,0.763,(5.4406)+(
-0.1159)Asn+(0.0037)Gly+(-0.0511)Cit+(-0.0346)Val+(0.0513)Leu;0.699,0
.736,0.756,0.773,0.768,0.773,0.672,0.746,(3.5254)+(-0.0451)Asn+(0.000
9)Gly+(-0.0104)Arg+(-0.1695)Met+(0.0267)Orn;0.699,0.741,0.771,0.800,0
.745,0.804,0.724,0.768,(4.4731)+(-0.0741)Asn+(-0.0056)Ala+(-0.0122)Ar
g+(-0.0313)Tyr+(0.0336)Orn;0.699,0.741,0.729,0.748,0.724,0.767,0.661,
0.725,(3.1244)+(0.0076)Pro+(-0.0197)Tyr+(-0.1986)Met+(0.0250)Orn+(-0.
0068)Lys;0.699,0.745,0.754,0.784,0.766,0.785,0.627,0.740,(5.6672)+(-0
.0925)Asn+(0.0192)Thr+(-0.0674)Cit+(-0.0369)Tyr+(-0.0066)Lys;0.699,0.
738,0.745,0.722,0.755,0.786,0.754,0.754,(3.9554)+(-0.0690)Asn+(-0.073
1)Cit+(-0.0021)Pro+(-0.0151)Lys+(0.0438)Ile;0.699,0.744,0.772,0.820,0
.774,0.825,0.605,0.756,(2.5013)+(0.0046)Gln+(0.0217)Thr+(-0.0205)Arg+
(-0.0078)Val+(-0.2485)Met;0.699,0.742,0.759,0.793,0.725,0.780,0.725,0
.756,(2.1826)+(-0.0082)Ala+(-0.0736)Cit+(-0.0034)Arg+(-0.0489)Tyr+(0.
0757)Phe;0.699,0.736,0.802,0.831,0.789,0.794,0.756,0.792,(2.0379)+(-0

.0691)Asn+(-0.0000)Gly+(0.0063)Gln+(-0.1837)Met+(-0.0001)Leu;0.699,0.743,0.750,0.747,0.700,0.812,0.818,0.769,(0.6833)+(-0.0128)Ala+(-0.0237)Arg+(0.0094)Orn+(0.0401)Ile+(0.0160)Phe;0.699,0.738,0.774,0.793,0.764,0.816,0.712,0.771,(3.3453)+(0.0000)Gly+(-0.0049)Ala+(-0.0128)Arg+(-0.1674)Met+(0.0299)Orn;0.699,0.735,0.707,0.755,0.682,0.712,0.628,0.694,(1.2640)+(-0.0689)Tyr+(0.0277)Orn+(-0.0158)Lys+(-0.0147)Leu+(0.0757)Phe;0.699,0.747,0.732,0.722,0.766,0.825,0.620,0.733,(3.4048)+(-0.1062)Cit+(0.0023)Pro+(-0.0110)Val+(0.0585)Orn+(-0.0166)Lys;0.699,0.743,0.697,0.728,0.692,0.777,0.570,0.692,(-1.3444)+(0.0255)Ser+(-0.0361)Arg+(-0.0208)Val+(0.0208)Orn+(0.0543)Phe;0.699,0.740,0.728,0.751,0.709,0.782,0.666,0.727,(2.0664)+(0.0341)Ser+(-0.0080)Gly+(-0.0613)Cit+(-0.0440)Tyr+(-0.0061)Val;0.699,0.739,0.740,0.769,0.736,0.773,0.645,0.731,(1.6867)+(0.0036)Gln+(0.0148)Thr+(0.0069)Pro+(-0.2842)Met+(-0.0069)Lys;0.699,0.740,0.745,0.798,0.703,0.689,0.734,0.731,(1.1348)+(-0.1293)Asn+(0.0049)Gln+(0.0035)Pro+(-0.0694)Tyr+(0.0644)Phe;0.699,0.745,0.717,0.752,0.728,0.757,0.568,0.702,(3.4471)+(0.0218)Thr+(-0.0175)Arg+(0.0084)Pro+(-0.0203)Tyr+(-0.2504)Met;0.699,0.738,0.779,0.805,0.738,0.833,0.759,0.784,(5.1778)+(-0.1111)Asn+(0.0113)Thr+(-0.0073)Ala+(0.0124)Pro+(-0.0131)Val;0.699,0.740,0.742,0.805,0.674,0.755,0.707,0.735,(1.0291)+(0.0066)Thr+(-0.0064)Ala+(-0.0594)Tyr+(-0.0128)Val+(0.0847)Phe;0.699,0.740,0.749,0.770,0.764,0.765,0.652,0.738,(3.7258)+(-0.0529)Asn+(0.0218)Thr+(-0.2201)Met+(-0.0047)Lys+(0.0040)Leu;0.699,0.739,0.724,0.752,0.741,0.764,0.586,0.711,(3.2908)+(0.0210)Thr+(-0.0158)Arg+(0.0074)Pro+(-0.2688)Met+(-0.0031)Lys;0.699,0.735,0.728,0.734,0.712,0.823,0.678,0.737,(0.9107)+(0.0255)Ser+(-0.0002)Gln+(-0.0098)Ala+(-0.0874)Cit+(0.0049)Leu;0.699,0.743,0.626,0.581,0.620,0.749,0.668,0.654,(-2.1646)+(0.0390)Ser+(-0.0171)Thr+(0.0119)Orn+(-0.0285)Lys+(0.0461)Ile;0.699,0.741,0.775,0.792,0.767,0.818,0.712,0.772,(3.5427)+(-0.0048)Ala+(-0

.0112)Arg+(-0.1564)Met+(0.0320)Orn+(-0.0040)Lys;0.699,0.741,0.755,0.779,0.741,0.802,0.685,0.752,(2.5687)+(0.0145)Thr+(-0.0053)Ala+(-0.2387)Met+(0.0174)Orn+(0.0045)Leu;0.699,0.740,0.769,0.799,0.761,0.812,0.674,0.762,(3.4995)+(-0.0010)Gly+(0.0201)Thr+(-0.0041)Ala+(-0.2197)Met+(-0.0039)Lys;0.699,0.738,0.751,0.782,0.768,0.771,0.620,0.735,(4.1021)+(-0.0495)Asn+(0.0240)Thr+(-0.0124)Arg+(-0.2113)Met+(-0.0016)Lys;0.699,0.738,0.765,0.790,0.766,0.807,0.666,0.757,(3.9125)+(-0.0008)Gly+(-0.0141)Arg+(-0.0108)Val+(-0.1690)Met+(0.0372)Orn;0.699,0.740,0.626,0.593,0.638,0.758,0.594,0.646,(-0.9631)+(0.0383)Ser+(-0.0019)Gln+(-0.0210)Arg+(-0.0261)Lys+(0.0470)Ile;0.699,0.738,0.764,0.805,0.736,0.782,0.704,0.757,(2.4451)+(0.0041)Gln+(0.0110)Pro+(-0.0099)Tyr+(-0.0100)Val+(-0.2232)Met;0.699,0.736,0.796,0.807,0.770,0.809,0.809,0.799,(2.8929)+(-0.0842)Asn+(-0.0077)Ala+(-0.0072)Arg+(-0.0066)Lys+(0.0574)Phe;0.699,0.747,0.750,0.744,0.780,0.763,0.694,0.745,(3.3975)+(-0.1119)Asn+(0.0155)Thr+(-0.0779)Cit+(-0.0149)Lys+(0.0530)Phe;0.699,0.743,0.693,0.719,0.667,0.743,0.643,0.693,(0.9597)+(0.0412)Ser+(-0.0099)Gly+(-0.0256)Arg+(0.0075)Pro+(-0.0624)Tyr;0.699,0.740,0.736,0.753,0.746,0.770,0.650,0.730,(2.8252)+(0.0005)Gly+(-0.0135)Arg+(0.0068)Pro+(-0.2336)Met+(0.0221)Orn;0.699,0.744,0.803,0.837,0.790,0.812,0.736,0.794,(3.3420)+(-0.1042)Asn+(0.0081)Gln+(-0.0752)Cit+(-0.0305)Tyr+(-0.0054)Lys;0.699,0.744,0.772,0.771,0.766,0.783,0.779,0.775,(1.5193)+(-0.1384)Asn+(0.0069)Gln+(-0.0872)Cit+(-0.0030)Pro+(0.0308)Ile;0.699,0.739,0.731,0.759,0.729,0.762,0.643,0.723,(1.2491)+(0.0028)Gln+(0.0117)Thr+(0.0063)Pro+(-0.3035)Met+(0.0089)Orn;0.699,0.741,0.741,0.753,0.765,0.771,0.635,0.731,(3.6371)+(0.0033)Gly+(-0.0708)Cit+(0.0016)Arg+(0.0089)Pro+(-0.2180)Met;0.698,0.743,0.771,0.782,0.756,0.820,0.738,0.774,(3.1871)+(-0.0051)Ala+(-0.1713)Met+(0.0285)Orn+(-0.0073)Lys+(0.0056)Leu;0.698,0.742,0.769,0.810,0.771,0.827,0.618,0.756,(4.1336)+(0.0237)Thr+(-0.0030)Ala+(

-0.0153)Arg+(-0.0061)Val+(-0.2102)Met;0.698,0.736,0.760,0.774,0.765,0.781,0.701,0.755,(3.6969)+(-0.0474)Asn+(-0.1604)Met+(0.0282)Orn+(-0.0050)Lys+(-0.0016)Leu;0.698,0.733,0.695,0.709,0.711,0.752,0.584,0.689,(2.7379)+(-0.0009)Gly+(-0.1048)Cit+(0.0031)Pro+(-0.0636)Tyr+(0.0460)Orn;0.698,0.741,0.729,0.753,0.729,0.763,0.643,0.722,(3.1946)+(-0.0136)Arg+(0.0077)Pro+(-0.0209)Tyr+(-0.2007)Met+(0.0246)Orn;0.698,0.735,0.759,0.776,0.783,0.778,0.648,0.746,(4.4235)+(-0.0442)Asn+(0.0038)Gly+(-0.0671)Cit+(-0.1472)Met+(0.0048)Leu;0.698,0.737,0.735,0.772,0.671,0.765,0.747,0.739,(1.8850)+(-0.0097)Ala+(0.0110)Pro+(-0.0556)Tyr+(-0.0126)Lys+(0.0669)Phe;0.698,0.741,0.765,0.799,0.754,0.804,0.669,0.757,(3.3888)+(-0.0012)Gly+(0.0197)Thr+(-0.0041)Ala+(-0.0084)Tyr+(-0.2199)Met;0.698,0.748,0.738,0.729,0.772,0.826,0.624,0.738,(3.4849)+(-0.0000)Thr+(-0.1073)Cit+(-0.0103)Val+(0.0598)Orn+(-0.0164)Lys;0.698,0.743,0.767,0.796,0.749,0.778,0.718,0.760,(5.1666)+(-0.0533)Asn+(0.0114)Pro+(-0.0120)Tyr+(-0.0109)Val+(-0.1307)Met;0.698,0.735,0.738,0.736,0.718,0.818,0.726,0.750,(1.0312)+(0.0304)Ser+(-0.0042)Gly+(-0.0096)Ala+(-0.0819)Cit+(0.0036)Leu;0.698,0.742,0.719,0.740,0.704,0.776,0.653,0.718,(0.7037)+(0.0369)Ser+(-0.1684)Asn+(0.0022)Gln+(0.0043)Pro+(-0.0094)Leu;0.698,0.744,0.712,0.703,0.733,0.755,0.664,0.714,(2.6370)+(-0.1131)Asn+(0.0058)Gly+(-0.0842)Cit+(-0.0013)Arg+(0.0337)Ile;0.698,0.732,0.743,0.747,0.723,0.822,0.721,0.753,(1.1578)+(0.0302)Ser+(-0.0045)Gly+(0.0003)Gln+(-0.0091)Ala+(-0.0802)Cit;0.698,0.743,0.763,0.801,0.762,0.804,0.635,0.750,(3.7765)+(-0.0017)Gly+(0.0207)Thr+(-0.0080)Tyr+(-0.0075)Val+(-0.2289)Met;0.698,0.732,0.715,0.709,0.728,0.801,0.642,0.720,(2.5022)+(-0.0854)Cit+(-0.0159)Arg+(-0.0309)Val+(0.0514)Orn+(0.0301)Leu;0.698,0.743,0.754,0.778,0.707,0.772,0.772,0.757,(2.3679)+(-0.0942)Asn+(0.0052)Gln+(-0.0470)Tyr+(-0.0134)Lys+(0.0409)Ile;0.698,0.739,0.703,0.720,0.729,0.764,0.562,0.694,(3.0127)+(0.0017)Thr+(-0.0987)Cit+(-0.0107

)Arg+(-0.0570)Tyr+(0.0477)Orn;0.698,0.735,0.803,0.831,0.790,0.799,0.756,0.794,(2.1146)+(-0.0655)Asn+(0.0064)Gln+(-0.1788)Met+(-0.0034)Lys+(0.0017)Leu;0.698,0.733,0.704,0.719,0.719,0.758,0.593,0.697,(2.8528)+(-0.0008)Gly+(-0.0008)Thr+(-0.1057)Cit+(-0.0591)Tyr+(0.0482)Orn;0.698,0.738,0.768,0.790,0.745,0.740,0.776,0.763,(3.3856)+(-0.1330)Asn+(0.0064)Pro+(-0.0212)Val+(-0.0001)Lys+(0.0712)Phe;0.698,0.737,0.722,0.740,0.730,0.755,0.634,0.715,(2.2909)+(-0.0007)Gly+(0.0134)Thr+(0.0063)Pro+(-0.2900)Met+(0.0126)Orn;0.698,0.736,0.772,0.807,0.747,0.787,0.720,0.765,(2.3712)+(-0.0010)Gly+(0.0044)Gln+(0.0106)Pro+(-0.0104)Val+(-0.2362)Met;0.698,0.743,0.746,0.779,0.753,0.751,0.643,0.732,(3.9081)+(-0.0610)Asn+(0.0220)Thr+(-0.0174)Tyr+(-0.1978)Met+(0.0026)Leu;0.698,0.748,0.740,0.739,0.695,0.834,0.767,0.759,(0.7160)+(0.0370)Ser+(-0.0082)Gly+(-0.0075)Ala+(0.0232)Orn+(-0.0196)Lys;0.698,0.745,0.673,0.735,0.621,0.702,0.598,0.664,(-1.9935)+(0.0287)Ser+(-0.0110)Thr+(-0.0695)Tyr+(-0.0165)Leu+(0.0788)Phe;0.698,0.743,0.798,0.835,0.784,0.801,0.730,0.787,(3.1578)+(-0.1105)Asn+(0.0080)Gln+(-0.0734)Cit+(-0.0035)Arg+(-0.0341)Tyr;0.698,0.740,0.751,0.784,0.731,0.806,0.662,0.746,(2.8605)+(0.0141)Thr+(-0.0047)Ala+(-0.0108)Tyr+(-0.2142)Met+(0.0205)Orn;0.698,0.740,0.735,0.757,0.675,0.861,0.707,0.750,(0.8262)+(0.0262)Ser+(-0.0070)Ala+(-0.0220)Arg+(-0.0284)Val+(0.0415)Leu;0.698,0.738,0.757,0.787,0.745,0.802,0.667,0.750,(3.4804)+(-0.0089)Tyr+(-0.0095)Val+(-0.1716)Met+(0.0340)Orn+(-0.0024)Lys;0.698,0.737,0.732,0.790,0.668,0.751,0.702,0.728,(0.6918)+(-0.0074)Ala+(-0.

0616)Tyr+(0.0222)Orn+(-0.0153)Leu+(0.0750)Phe;0.698,0.737,0.746,0.745,0.693,0.816,0.806,0.765,(1.0159)+(0.0008)Gly+(-0.0123)Ala+(-0.0233)Arg+(0.0104)Orn+(0.0438)Ile;0.698,0.741,0.715,0.740,0.648,0.774,0.745,0.727,(1.3308)+(0.0350)Ser+(-0.0105)Gly+(-0.0500)Tyr+(-0.0274)Val+(0.0360)Leu;0.698,0.737,0.804,0.825,0.778,0.839,0.781,0.806,(2.5388)+(-0

.1047)Asn+(0.0048)Gln+(-0.0072)Ala+(-0.0168)Arg+(0.0237)Orn;0.698,0.738,0.757,0.819,0.684,0.766,0.737,0.752,(0.8791)+(0.0011)Gln+(-0.0062)Ala+(-0.0556)Tyr+(-0.0121)Val+(0.0822)Phe;0.698,0.741,0.688,0.739,0.670,0.788,0.523,0.680,(1.4436)+(0.0261)Ser+(-0.0263)Arg+(0.0098)Pro+(-0.0425)Tyr+(-0.0113)Val;0.698,0.736,0.781,0.788,0.759,0.841,0.766,0.789,(2.9476)+(0.0037)Gln+(-0.0114)Ala+(-0.0867)Cit+(0.0119)Pro+(-0.0107)Lys;0.698,0.732,0.751,0.768,0.752,0.759,0.695,0.744,(3.5927)+(-0.0415)Asn+(0.0016)Gly+(0.0078)Pro+(-0.1928)Met+(-0.0016)Lys;0.697,0.736,0.799,0.836,0.779,0.796,0.747,0.789,(2.3926)+(-0.0697)Asn+(0.0065)Gln+(-0.0120)Tyr+(-0.1525)Met+(-0.0024)Lys;0.697,0.740,0.671,0.659,0.707,0.796,0.540,0.676,(1.2977)+(0.0209)Ser+(-0.0031)Gln+(-0.1020)Cit+(-0.0141)Val+(0.0465)Orn;0.697,0.739,0.758,0.789,0.757,0.803,0.643,0.748,(3.9132)+(-0.0144)Arg+(-0.0093)Tyr+(-0.0103)Val+(-0.1558)Met+(0.0376)Orn;0.697,0.740,0.686,0.747,0.633,0.693,0.630,0.675,(0.6646)+(0.0055)Pro+(-0.0753)Tyr+(-0.0190)Val+(0.0237)Orn+(0.0730)Phe;0.697,0.741,0.696,0.727,0.706,0.775,0.535,0.686,(1.2126)+(0.0283)Ser+(-0.0038)Thr+(-0.0661)Cit+(-0.0120)Arg+(-0.0401)Tyr;0.697,0.737,0.769,0.797,0.753,0.773,0.723,0.762,(4.8012)+(-0.0593)Asn+(0.0113)Pro+(-0.0132)Val+(-0.1619)Met+(0.0060)Lys;0.697,0.733,0.755,0.756,0.725,0.804,0.780,0.766,(1.1151)+(0.0018)Gln+(-0.0139)Ala+(-0.0929)Cit+(0.0101)Pro+(0.0381)Phe;0.697,0.739,0.634,0.688,0.601,0.673,0.532,0.623,(-1.1499)+(0.0280)Ser+(-0.0031)Gln+(-0.0759)Tyr+(-0.0169)Leu+(0.0826)Phe;0.697,0.741,0.695,0.696,0.693,0.763,0.646,0.700,(3.0925)+(0.0027)Gly+(-0.0790)Cit+(-0.0446)Tyr+(-0.0179)Lys+(0.0535)Ile;0.697,0.732,0.705,0.725,0.618,0.780,0.779,0.726,(1.4668)+(-0.0121)Ala+(0.0076)Pro+(-0.0512)Tyr+(0.0069)Orn+(0.0430)Ile;0.697,0.736,0.798,0.835,0.779,0.787,0.750,0.788,(2.3236)+(-0.0711)Asn+(-0.0004)Gly+(0.0064)Gln+(-0.0131)Tyr+(-0.1580)Met;0.697,0.731,0.762,0.791,0.711,0.799,0.762,0.766,(4.4995)+(-0.0773)Asn+

(0.0007)Gly+(-0.0084)Ala+(0.0126)Pro+(-0.0318)Tyr;0.697,0.741,0.735,0.790,0.699,0.681,0.701,0.718,(1.2065)+(-0.1502)Asn+(0.0045)Gln+(0.0134)Thr+(-0.0739)Tyr+(0.0696)Phe;0.697,0.738,0.760,0.765,0.779,0.766,0.701,0.753,(4.6110)+(-0.0370)Asn+(-0.0646)Cit+(0.0042)Arg+(0.0081)Pro+(-0.1768)Met;0.697,0.739,0.665,0.662,0.633,0.783,0.659,0.684,(-1.2656)+(0.0311)Ser+(-0.0305)Val+(-0.0244)Lys+(0.0377)Leu+(0.0462)Phe;0.697,0.739,0.765,0.799,0.766,0.808,0.642,0.754,(3.7286)+(-0.0007)Gly+(0.0230)Thr+(-0.0041)Ala+(-0.0150)Arg+(-0.2222)Met;0.697,0.737,0.752,0.776,0.755,0.766,0.671,0.742,(4.0041)+(-0.0481)Asn+(-0.0104)Arg+(-0.0201)Tyr+(-0.1312)Met+(0.0300)Orn;0.697,0.733,0.692,0.721,0.690,0.766,0.565,0.686,(0.8498)+(0.0276)Ser+(0.0004)Gln+(-0.0076)Thr+(-0.0760)Cit+(-0.0416)Tyr;0.697,0.740,0.688,0.658,0.709,0.768,0.668,0.701,(-1.0481)+(0.0373)Ser+(-0.0045)Gly+(-0.0240)Thr+(-0.1032)Cit+(0.0375)Orn;0.697,0.736,0.772,0.794,0.783,0.785,0.682,0.761,(1.8500)+(0.0013)Gly+(0.0058)Gln+(-0.0764)Cit+(-0.2279)Met+(0.0053)Leu;0.697,0.735,0.785,0.809,0.755,0.821,0.755,0.785,(1.8295)+(-0.0012)Gly+(0.0035)Gln+(-0.0049)Ala+(-0.2057)Met+(0.0220)Orn;0.697,0.743,0.786,0.817,0.764,0.822,0.725,0.782,(3.6198)+(-0.1491)Asn+(0.0040)Gln+(0.0066)Thr+(-0.0175)Val+(0.0296)Orn;0.697,0.741,0.694,0.730,0.705,0.774,0.522,0.683,(1.0930)+(0.0259)Ser+(0.0007)Gln+(-0.0670)Cit+(-0.0145)Arg+(-0.0437)Tyr;0.697,0.741,0.740,0.755,0.762,0.769,0.632,0.729,(3.8812)+(0.0030)Gly+(-0.0681)Cit+(0.0094)Pro+(-0.0102)Tyr+(-0.1994)Met;0.697,0.734,0.785,0.824,0.736,0.815,0.762,0.784,(3.0252)+(-0.1078)Asn+(0.0044)Gln+(-0.0059)Ala+(-0.0342)Tyr+(0.0254)Orn;0.697,0.743,0.758,0.787,0.759,0.800,0.649,0.749,(3.3124)+(0.0231)Thr+(-0.0047)Ala+(-0.0151)Arg+(-0.2383)Met+(0.0076)Leu;0.697,0.741,0.755,0.756,0.699,0.811,0.831,0.774,(0.7468)+(-0.0005)Thr+(-0.0127)Ala+(-0.0218)Arg+(0.0431)Ile+(0.0181)Phe;0.697,0.737,0.783,0.801,0.789,0.798,0.709,0.774,(2.1377)+(0.0065)Gln+(-0.0746)Cit+

(-0.2110)Met+(-0.0064)Lys+(0.0080)Leu;0.697,0.736,0.749,0.788,0.760,0.774,0.608,0.732,(1.6321)+(0.0045)Gln+(0.0204)Thr+(-0.0208)Arg+(-0.2842)Met+(0.0032)Leu;0.697,0.743,0.759,0.754,0.761,0.767,0.760,0.761,(1.5750)+(-0.1481)Asn+(0.0064)Gln+(0.0050)Thr+(-0.0880)Cit+(0.0259)Ile;0.697,0.739,0.749,0.778,0.768,0.765,0.620,0.733,(3.9068)+(-0.0493)Asn+(0.0239)Thr+(-0.0131)Arg+(-0.2219)Met+(0.0019)Leu;0.697,0.741,0.750,0.770,0.742,0.786,0.691,0.747,(1.6685)+(0.0036)Gln+(0.0065)Pro+(-0.2456)Met+(0.0189)Orn+(-0.0081)Lys;0.697,0.734,0.798,0.821,0.757,0.826,0.800,0.801,(2.6906)+(-0.1002)Asn+(0.0049)Gln+(-0.0092)Ala+(-0.0136)Arg+(0.0094)Pro;0.697,0.733,0.738,0.739,0.714,0.808,0.734,0.749,(1.1632)+(0.0034)Gly+(-0.0140)Ala+(-0.0960)Cit+(0.0108)Pro+(0.0432)Phe;0.697,0.737,0.754,0.760,0.774,0.769,0.684,0.747,(4.1586)+(-0.0629)Cit+(0.0083)Pro+(-0.2050)Met+(-0.0022)Lys+(0.0020)Leu;0.697,0.736,0.734,0.780,0.670,0.755,0.732,0.734,(1.6747)+(-0.0103)Ala+(-0.0191)Arg+(0.0115)Pro+(-0.0582)Tyr+(0.0647)Phe;0.697,0.743,0.689,0.715,0.668,0.781,0.600,0.691,(1.4099)+(0.0237)Ser+(-0.0674)Cit+(-0.0417)Tyr+(-0.0223)Val+(0.0316)Leu;0.697,0.738,0.798,0.816,0.768,0.806,0.810,0.800,(2.8715)+(-0.0939)Asn+(-0.0070)Ala+(-0.0056)Lys+(-0.0096)Leu+(0.0657)Phe;0.697,0.748,0.753,0.776,0.698,0.837,0.749,0.765,(1.6495)+(0.0388)Ser+(-0.0090)Gly+(-0.0050)Ala+(-0.0303)Tyr+(-0.0122)Lys;0.697,0.739,0.736,0.748,0.739,0.776,0.672,0.734,(2.8672)+(0.0069)Pro+(-0.2260)Met+(0.0233)Orn+(-0.0067)Lys+(-0.0012)Leu;0.697,0.738,0.760,0.779,0.733,0.814,0.728,0.763,(4.2936)+(-0.0105)Ala+(-0.0754)Cit+(-0.0015)Arg+(0.0142)Pro+(-0.0325)Tyr;0.697,0.737,0.770,0.796,0.740,0.806,0.736,0.770,(4.5028)+(-0.0760)Asn+(-0.0054)Ala+(-0.0294)Tyr+(0.0339)Orn+(-0.0066)Lys;0.697,0.735,0.793,0.822,0.774,0.811,0.746,0.788,(3.6751)+(-0.1308)Asn+(0.0071)Gln+(-0.0671)Cit+(0.0069)Pro+(-0.0131)Val;0.697,0.738,0.780,0.805,0.749,0.819,0.748,0.780,(1.6526)+(0.0033)Gln+(-0.0052)Ala+(-0.2117)Met

+(0.0205)Orn+(0.0030)Leu;0.697,0.740,0.746,0.782,0.714,0.802,0.676,0.743,(2.1693)+(0.0389)Ser+(-0.0098)Gly+(-0.0224)Arg+(-0.0391)Tyr+(-0.0084)Val;0.697,0.740,0.722,0.750,0.739,0.761,0.585,0.709,(3.1044)+(0.0205)Thr+(-0.0171)Arg+(0.0073)Pro+(-0.2784)Met+(-0.0000)Leu;0.697,0.738,0.768,0.828,0.712,0.778,0.718,0.759,(1.9491)+(-0.0054)Ala+(-0.0162)Arg+(-0.0499)Tyr+(-0.0117)Val+(0.0873)Phe;0.697,0.737,0.747,0.776,0.673,0.801,0.786,0.759,(1.4749)+(0.0025)Gln+(-0.0100)Ala+(-0.0202)Arg+(-0.0424)Tyr+(0.0518)Ile;0.697,0.739,0.685,0.710,0.698,0.720,0.569,0.674,(1.4542)+(-0.0977)Cit+(-0.0107)Arg+(-0.0751)Tyr+(0.0428)Orn+(0.0540)Phe;0.697,0.737,0.705,0.708,0.674,0.759,0.721,0.715,(-0.9393)+(0.0407)Ser+(-0.0086)Gly+(-0.0131)Val+(-0.0217)Lys+(0.0554)Phe;0.696,0.736,0.754,0.776,0.736,0.793,0.708,0.753,(4.6286)+(-0.1230)Asn+(0.0004)Gly+(0.0067)Pro+(-0.0189)Val+(0.0342)Orn;0.696,0.742,0.711,0.733,0.697,0.761,0.648,0.710,(1.5445)+(0.0347)Ser+(-0.0078)Gly+(-0.0674)Cit+(-0.0513)Tyr+(-0.0018)Leu;0.696,0.741,0.769,0.768,0.769,0.773,0.767,0.769,(1.5451)+(-0.1342)Asn+(0.0070)Gln+(-0.0824)Cit+(-0.0066)Arg+(0.0269)Ile;0.696,0.737,0.750,0.746,0.700,0.817,0.820,0.771,(1.2030)+(-0.0023)Thr+(-0.0122)Ala+(-0.0218)Arg+(0.0118)Orn+(0.0434)Ile;0.696,0.736,0.753,0.794,0.760,0.786,0.605,0.736,(1.9568)+(0.0047)Gln+(0.0206)Thr+(-0.0193)Arg+(-0.2637)Met+(-0.0039)Lys;0.696,0.738,0.796,0.829,0.782,0.818,0.725,0.788,(3.8092)+(-0.1460)Asn+(0.0068)Gln+(0.0116)Thr+(-0.0691)Cit+(-0.0115)Val;0.696,0.738,0.614,0.566,0.610,0.743,0.655,0.643,(-1.4728)+(0.0419)Ser+(-0.0023)Gln+(-0.0139)Thr+(-0.0266)Lys+(0.0502)Ile;0.696,0.739,0.763,0.816,0.704,0.774,0.737,0.758,(1.7838)+(-0.0056)Ala+(-0.0506)Tyr+(-0.0102)Val+(-0.0074)Lys+(0.0850)Phe;0.696,0.736,0.772,0.797,0.730,0.851,0.738,0.779,(1.5409)+(0.0356)Ser+(-0.0076)Gly+(-0.0059)Ala+(-0.0228)Arg+(-0.0083)Val;0.696,0.739,0.789,0.812,0.792,0.830,0.695,0.782,(4.5743)+(0.0026)Gly+(-0.0043)Ala+(-0.0670)Cit+(-0.00

12)Val+(-0.1297)Met;0.696,0.738,0.715,0.747,0.718,0.739,0.607,0.703,(2.7711)+(0.0169)Thr+(0.0080)Pro+(-0.0195)Tyr+(-0.2661)Met+(0.0008)Leu;0.696,0.732,0.710,0.731,0.621,0.783,0.788,0.731,(1.5050)+(0.0002)Gln+(-0.0121)Ala+(0.0079)Pro+(-0.0500)Tyr+(0.0452)Ile;0.696,0.738,0.745,0.781,0.757,0.783,0.601,0.730,(1.6861)+(0.0040)Gln+(0.0171)Thr+(-0.0219)Arg+(-0.2731)Met+(0.0147)Orn;0.696,0.733,0.746,0.771,0.740,0.746,0.690,0.737,(3.8803)+(-0.0445)Asn+(0.0012)Gly+(0.0086)Pro+(-0.0172)Tyr+(-0.1676)Met;0.696,0.733,0.716,0.736,0.629,0.779,0.801,0.736,(1.8959)+(-0.0014)Gly+(-0.0120)Ala+(0.0080)Pro+(-0.0504)Tyr+(0.0448)Ile;0.696,0.748,0.745,0.788,0.709,0.853,0.631,0.745,(1.3595)+(0.0287)Ser+(-0.0054)Ala+(-0.0171)Arg+(-0.0227)Tyr+(-0.0083)Lys;0.696,0.740,0.788,0.817,0.772,0.755,0.772,0.779,(3.4881)+(-0.1197)Asn+(-0.0102)Arg+(-0.0193)Val+(0.0020)Lys+(0.0763)Phe;0.696,0.739,0.769,0.800,0.760,0.783,0.694,0.759,(1.7669)+(0.0052)Gln+(-0.0135)Arg+(0.0077)Pro+(-0.2406)Met+(-0.0029)Lys;0.696,0.737,0.736,0.765,0.735,0.762,0.645,0.727,(1.3256)+(0.0032)Gln+(0.0134)Thr+(0.0068)Pro+(-0.3045)Met+(-0.0004)Leu;0.696,0.734,0.764,0.772,0.725,0.819,0.783,0.775,(3.3387)+(-0.1010)Asn+(0.0012)Gly+(-0.0101)Ala+(0.0093)Pro+(0.0195)Orn;0.696,0.742,0.747,0.782,0.757,0.765,0.624,0.732,(5.3836)+(-0.0987)Asn+(0.0180)Thr+(-0.0646)Cit+(-0.0043)Arg+(-0.0406)Tyr;0.696,0.742,0.820,0.863,0.799,0.828,0.749,0.810,(3.0575)+(-0.0760)Asn+(0.0073)Gln+(-0.0102)Arg+(-0.0085)Val+(-0.1278)Met;0.696,0.739,0.774,0.792,0.764,0.814,0.717,0.772,(3.3005)+(-0.0050)Ala+(-0.0126)Arg+(-0.1701)Met+(0.0293)Orn+(0.0015)Leu;0.696,0.734,0.760,0.797,0.767,0.778,0.635,0.744,(1.9123)+(-0.0020)Gly+(0.0049)Gln+(0.0210)Thr+(-0.0209)Arg+(-0.2767)Met;0.696,0.732,0.766,0.796,0.722,0.796,0.760,0.768,(4.7698)+(-0.0674)Asn+(-0.0082)Ala+(-0.0075)Arg+(0.0127)Pro+(-0.0312)Tyr;0.696,0.735,0.739,0.761,0.672,0.793,0.784,0.752,(2.2928)+(0.0001)Gly+(-0.0098)Ala+(-0.0166)Arg+(-0.0405)Tyr+(0.05

31)Ile;0.696,0.742,0.763,0.799,0.765,0.805,0.636,0.751,(3.6833)+(-0.0014)Gly+(0.0204)Thr+(-0.0076)Val+(-0.2372)Met+(-0.0012)Lys;0.696,0.739,0.593,0.624,0.540,0.653,0.580,0.599,(-2.7862)+(0.0247)Ser+(-0.0877)Tyr+(-0.0040)Orn+(0.0286)Ile+(0.0409)Phe;0.696,0.737,0.779,0.782,0.764,0.826,0.769,0.785,(2.4610)+(-0.0094)Ala+(-0.0833)Cit+(0.0032)Arg+(-0.0128)Lys+(0.0606)Phe;0.696,0.736,0.729,0.787,0.647,0.749,0.732,0.729,(1.4752)+(-0.0087)Ala+(0.0120)Pro+(-0.0584)Tyr+(-0.0132)Val+(0.0759)Phe;0.696,0.738,0.802,0.817,0.802,0.821,0.748,0.797,(5.4878)+(-0.0384)Asn+(-0.0044)Ala+(-0.0619)Cit+(-0.0016)Tyr+(-0.0893)Met;0.696,0.734,0.708,0.727,0.720,0.758,0.600,0.701,(2.4480)+(-0.0015)Gly+(0.0013)Gln+(-0.1063)Cit+(-0.0616)Tyr+(0.0462)Orn;0.696,0.739,0.623,0.661,0.585,0.671,0.570,0.622,(-1.6970)+(0.0347)Ser+(-0.0031)Gln+(-0.0113)Thr+(-0.0716)Tyr+(0.0640)Phe;0.696,0.742,0.718,0.726,0.657,0.833,0.740,0.739,(0.1663)+(0.0326)Ser+(-0.0111)Thr+(-0.0101)Ala+(0.0124)Pro+(-0.0138)Lys;0.696,0.735,0.706,0.725,0.719,0.764,0.589,0.699,(2.3199)+(0.0012)Gln+(-0.0026)Thr+(-0.1076)Cit+(-0.0587)Tyr+(0.0469)Orn;0.696,0.740,0.796,0.814,0.781,0.818,0.763,0.794,(5.4436)+(-0.0619)Asn+(-0.0060)Ala+(-0.0662)Cit+(-0.0173)Tyr+(0.0050)Leu;0.696,0.735,0.782,0.794,0.738,0.824,0.809,0.791,(2.5184)+(-0.1158)Asn+(0.0034)Gln+(-0.0100)Ala+(0.0084)Pro+(0.0164)Orn;0.696,0.745,0.722,0.741,0.666,0.815,0.718,0.735,(-1.4200)+(0.0307)Ser+(-0.0090)Ala+(-0.0208)Lys+(-0.0013)Leu+(0.0553)Phe;0.696,0.740,0.749,0.784,0.755,0.767,0.630,0.734,(5.4009)+(-0.1009)Asn+(0.0170)Thr+(-0.0668)Cit+(-0.0394)Tyr+(-0.0018)Leu;0.696,0.733,0.757,0.774,0.760,0.776,0.692,0.751,(3.4803)+(-0.0539)Asn+(0.0007)Gly+(-0.1683)Met+(0.0258)Orn+(-0.0037)Leu;0.696,0.738,0.765,0.789,0.733,0.818,0.728,0.767,(4.5374)+(-0.0097)Ala+(-0.0716)Cit+(0.0149)Pro+(-0.0301)Tyr+(-0.0048)Val;0.696,0.741,0.682,0.672,0.584,0.816,0.817,0.722,(-2.7840)+(0.0244)Ser+(-0.0147

)Ala+(-0.0068)Orn+(0.0470)Ile+(0.0120)Phe;0.696,0.739,0.780,0.826,0.747,0.825,0.695,0.773,(5.4480)+(-0.1059)Asn+(0.0169)Thr+(-0.0036)Ala+(-0.0242)Tyr+(-0.0090)Val;0.696,0.738,0.777,0.787,0.777,0.753,0.766,0.771,(0.9624)+(-0.1489)Asn+(0.0071)Gln+(-0.0862)Cit+(-0.0004)Pro+(0.0405)Phe;0.696,0.734,0.716,0.761,0.687,0.670,0.690,0.702,(2.3067)+(-0.1073)Asn+(0.0015)Gly+(0.0046)Pro+(-0.0667)Tyr+(0.0662)Phe;0.695,0.735,0.767,0.785,0.746,0.809,0.733,0.768,(2.8375)+(-0.0001)Gly+(-0.0052)Ala+(-0.1896)Met+(0.0251)Orn+(0.0026)Leu;0.695,0.738,0.761,0.789,0.747,0.797,0.689,0.755,(3.6076)+(-0.0015)Gly+(-0.0108)Tyr+(-0.0102)Val+(-0.1724)Met+(0.0341)Orn;0.695,0.733,0.732,0.749,0.730,0.764,0.670,0.728,(2.5432)+(-0.0001)Gly+(0.0072)Pro+(-0.2441)Met+(0.0200)Orn+(-0.0042)Leu;0.695,0.739,0.739,0.757,0.748,0.777,0.648,0.732,(3.0790)+(-0.0140)Arg+(0.0074)Pro+(-0.2219)Met+(0.0245)Orn+(-0.0053)Leu;0.695,0.738,0.758,0.776,0.730,0.811,0.731,0.762,(4.2092)+(-0.0107)Ala+(-0.0772)Cit+(0.0141)Pro+(-0.0331)Tyr+(0.0010)Leu;0.695,0.739,0.776,0.814,0.757,0.802,0.696,0.767,(2.5166)+(0.0051)Gln+(-0.0138)Arg+(0.0107)Pro+(-0.0101)Val+(-0.2211)Met;0.695,0.735,0.762,0.779,0.771,0.780,0.682,0.753,(3.8364)+(-0.0460)Asn+(-0.0106)Arg+(-0.1569)Met+(0.0292)Orn+(-0.0045)Leu;0.695,0.734,0.756,0.766,0.721,0.803,0.766,0.764,(2.0074)+(-0.0119)Ala+(-0.0789)Cit+(0.0116)Pro+(-0.0103)Val+(0.0548)Phe;0.695,0.732,0.749,0.774,0.744,0.763,0.684,0.741,(3.7210)+(-0.0550)Asn+(0.0002)Gly+(-0.0196)Tyr+(-0.1418)Met+(0.0271)Orn;0.695,0.733,0.738,0.754,0.719,0.835,0.668,0.744,(1.3337)+(0.0244)Ser+(0.0001)Gln+(-0.0083)Ala+(-0.0813)Cit+(-0.0028)Val;0.695,0.731,0.783,0.808,0.735,0.837,0.775,0.789,(5.0113)+(-0.0926)Asn+(0.0013)Gly+(-0.0072)Ala+(0.0132)Pro+(-0.0117)Val;0.695,0.738,0.721,0.742,0.727,0.757,0.623,0.713,(2.2840)+(0.0126)Thr+(0.0066)Pro+(-0.2850)Met+(0.0133)Orn+(-0.0022)Leu;0.695,0.735,0.726,0.747,0.734,0.749,0.634,0.716,(2.5445)+(-0.0005)Gly+(0.0161)Thr+(0.0070

)Pro+(-0.2903)Met+(-0.0001)Leu;0.695,0.735,0.713,0.755,0.686,0.675,0.687,0.701,(2.3534)+(-0.1083)Asn+(0.0034)Pro+(-0.0701)Tyr+(0.0187)Orn+(0.0599)Phe;0.695,0.735,0.710,0.744,0.676,0.684,0.710,0.704,(2.1660)+(-0.1048)Asn+(-0.0691)Tyr+(0.0149)Orn+(0.0196)Ile+(0.0508)Phe;0.695,0.733,0.756,0.760,0.696,0.816,0.827,0.775,(0.6415)+(0.0005)Gly+(0.0015)Gln+(-0.0124)Ala+(-0.0233)Arg+(0.0465)Ile;0.695,0.743,0.741,0.790,0.700,0.848,0.620,0.739,(0.9848)+(0.0264)Ser+(0.0003)Gln+(-0.0061)Ala+(-0.0218)Arg+(-0.0294)Tyr;0.695,0.742,0.757,0.798,0.758,0.806,0.608,0.743,(3.5669)+(0.0198)Thr+(-0.0059)Tyr+(-0.0071)Val+(-0.2298)Met+(-0.0012)Lys;0.695,0.734,0.757,0.762,0.731,0.803,0.764,0.765,(1.8568)+(-0.0130)Ala+(-0.0866)Cit+(0.0111)Pro+(-0.0093)Leu+(0.0496)Phe;0.695,0.735,0.768,0.800,0.758,0.777,0.696,0.758,(1.6529)+(-0.0004)Gly+(0.0052)Gln+(-0.0148)Arg+(0.0076)Pro+(-0.2492)Met;0.695,0.734,0.691,0.708,0.704,0.753,0.570,0.684,(2.3000)+(0.0008)Gln+(-0.1068)Cit+(0.0030)Pro+(-0.0639)Tyr+(0.0445)Orn;0.695,0.733,0.750,0.751,0.691,0.816,0.822,0.770,(1.1115)+(0.0011)Gly+(-0.0009)Thr+(-0.0122)Ala+(-0.0209)Arg+(0.0479)Ile;0.695,0.733,0.694,0.708,0.710,0.754,0.580,0.688,(2.6489)+(-0.0019)Thr+(-0.1055)Cit+(0.0032)Pro+(-0.0619)Tyr+(0.0464)Orn;0.695,0.743,0.742,0.789,0.699,0.850,0.628,0.742,(1.0118)+(0.0273)Ser+(-0.0014)Thr+(-0.0060)Ala+(-0.0209)Arg+(-0.0282)Tyr;0.695,0.734,0.721,0.764,0.694,0.689,0.686,0.708,(2.2600)+(-0.1099)Asn+(0.0008)Gly+(-0.0664)Tyr+(0.0200)Orn+(0.0624)Phe;0.695,0.740,0.817,0.855,0.774,0.856,0.776,0.815,(3.6727)+(-0.1363)Asn+(0.0050)Gln+(0.0117)Thr+(-0.0043)Ala+(-0.0114)Val;0.695,0.738,0.760,0.800,0.771,0.804,0.600,0.744,(4.1961)+(-0.0012)Gly+(0.0244)Thr+(-0.0160)Arg+(-0.0078)Val+(-0.2283)Met;0.695,0.733,0.762,0.765,0.701,0.817,0.837,0.780,(0.6837)+(0.0018)Gln+(-0.0018)Thr+(-0.0123)Ala+(-0.0224)Arg+(0.0465)Ile;0.695,0.738,0.719,0.739,0.660,0.842,0.701,0.736,(0.8434)+(0.0266)Ser+(-0.0095)Ala+(0.0125)Pro+(-0.0071)

Val+(-0.0140)Lys;0.695,0.735,0.737,0.756,0.666,0.806,0.786,0.754,(-1.1729)+(0.0308)Ser+(-0.0069)Gly+(-0.0088)Ala+(-0.0134)Val+(0.0535)Phe;0.695,0.731,0.747,0.754,0.724,0.826,0.719,0.756,(1.5500)+(0.0305)Ser+(-0.0049)Gly+(-0.0080)Ala+(-0.0742)Cit+(-0.0036)Val;0.695,0.738,0.735,0.766,0.717,0.758,0.672,0.728,(1.5964)+(0.0031)Gln+(0.0075)Pro+(-0.0190)Tyr+(-0.2424)Met+(0.0161)Orn;0.695,0.738,0.765,0.780,0.720,0.835,0.767,0.775,(0.5004)+(0.0385)Ser+(-0.0069)Gly+(-0.0067)Thr+(-0.0075)Ala+(-0.0207)Arg;0.695,0.735,0.768,0.794,0.768,0.807,0.673,0.760,(1.8463)+(0.0045)Gln+(-0.0154)Arg+(-0.2123)Met+(0.0246)Orn+(-0.0059)Lys;0.695,0.739,0.728,0.753,0.663,0.792,0.750,0.740,(2.2214)+(0.0077)Thr+(-0.0100)Ala+(-0.0207)Arg+(-0.0457)Tyr+(0.0522)Ile;0.695,0.737,0.757,0.769,0.780,0.740,0.689,0.745,(3.1393)+(-0.1295)Asn+(0.0113)Thr+(-0.0730)Cit+(-0.0187)Leu+(0.0646)Phe;0.695,0.736,0.791,0.820,0.791,0.811,0.697,0.780,(2.4504)+(0.0005)Gly+(0.0060)Gln+(-0.0693)Cit+(-0.0042)Val+(-0.1976)Met;0.695,0.736,0.807,0.824,0.805,0.828,0.748,0.801,(5.7431)+(-0.0428)Asn+(-0.0037)Ala+(-0.0582)Cit+(-0.0033)Val+(-0.0819)Met;0.695,0.742,0.631,0.592,0.617,0.755,0.678,0.660,(-1.9980)+(0.0389)Ser+(-0.0145)Thr+(-0.0025)Pro+(-0.0276)Lys+(0.0523)Ile;0.695,0.738,0.682,0.708,0.610,0.815,0.665,0.700,(0.9675)+(0.0258)Ser+(-0.0024)Gln+(-0.0100)Ala+(0.0132)Pro+(-0.0418)Tyr;0.695,0.738,0.781,0.786,0.768,0.827,0.765,0.786,(2.4847)+(-0.0092)Ala+(-0.0803)Cit+(-0.0118)Lys+(-0.0009)Leu+(0.0614)Phe;0.695,0.741,0.632,0.646,0.577,0.711,0.650,0.646,(-2.0270)+(0.0320)Ser+(-0.0179)Thr+(-0.0611)Tyr+(0.0067)Orn+(0.0388)Ile;0.695,0.733,0.690,0.719,0.690,0.767,0.561,0.684,(0.9787)+(0.0279)Ser+(-0.0073)Thr+(-0.0752)Cit+(-0.0410)Tyr+(-0.0004)Leu;0.695,0.739,0.719,0.727,0.746,0.732,0.636,0.710,(2.0240)+(-0.1270)Asn+(0.0061)Gly+(-0.0838)Cit+(0.0014)Pro+(0.0491)Phe;0.695,0.738,0.799,0.813,0.797,0.819,0.754,0.796,(5.3497)+(-0.0427)Asn+(-0.0046)Ala+(-0.0678)Cit+(0.0073)Arg+(

-0.0966)Met;0.695,0.741,0.792,0.821,0.767,0.828,0.740,0.789,(3.5498)+(-0.1322)Asn+(0.0044)Gln+(-0.0159)Val+(0.0329)Orn+(-0.0034)Lys;0.695,0.739,0.763,0.798,0.754,0.813,0.652,0.754,(3.4574)+(0.0198)Thr+(-0.0040)Ala+(-0.0064)Tyr+(-0.2120)Met+(-0.0038)Lys;0.695,0.739,0.765,0.786,0.745,0.815,0.713,0.765,(3.3788)+(-0.0046)Ala+(-0.0090)Tyr+(-0.1529)Met+(0.0307)Orn+(-0.0058)Lys;0.695,0.735,0.762,0.781,0.784,0.784,0.654,0.751,(4.5849)+(-0.0500)Asn+(0.0036)Gly+(-0.0701)Cit+(0.0060)Arg+(-0.1378)Met;0.695,0.734,0.751,0.772,0.757,0.758,0.682,0.742,(3.6700)+(-0.0382)Asn+(0.0018)Gly+(-0.0070)Arg+(0.0079)Pro+(-0.1909)Met;0.695,0.740,0.766,0.774,0.773,0.748,0.746,0.760,(1.0322)+(-0.1610)Asn+(0.0066)Gln+(0.0067)Thr+(-0.0877)Cit+(0.0393)Phe;0.695,0.738,0.663,0.631,0.704,0.766,0.589,0.672,(-0.5733)+(0.0331)Ser+(-0.0020)Gln+(-0.0225)Thr+(-0.1065)Cit+(0.0404)Orn;0.695,0.742,0.702,0.709,0.648,0.831,0.702,0.722,(0.7899)+(0.0306)Ser+(-0.0018)Gln+(-0.0103)Ala+(0.0117)Pro+(-0.0164)Lys;0.695,0.739,0.762,0.798,0.765,0.811,0.628,0.751,(3.7226)+(0.0229)Thr+(-0.0040)Ala+(-0.0145)Arg+(-0.2180)Met+(-0.0016)Lys;0.695,0.735,0.781,0.792,0.761,0.817,0.764,0.784,(2.4514)+(-0.0083)Ala+(-0.0746)Cit+(-0.0066)Val+(-0.0096)Lys+(0.0682)Phe;0.695,0.736,0.617,0.578,0.612,0.742,0.643,0.644,(-2.4125)+(0.0341)Ser+(-0.0045)Pro+(-0.0344)Lys+(0.0467)Ile+(0.0195)Phe;0.695,0.734,0.732,0.787,0.702,0.722,0.657,0.717,(0.8617)+(0.0027)Gln+(-0.0714)Cit+(-0.0679)Tyr+(-0.0126)Val+(0.0845)Phe;0.695,0.734,0.779,0.801,0.787,0.787,0.698,0.768,(1.9625)+(0.0063)Gln+(-0.0721)Cit+(-0.0035)Arg+(-0.2226)Met+(0.0048)Leu;0.695,0.747,0.701,0.706,0.653,0.823,0.702,0.721,(0.1545)+(0.0270)Ser+(-0.0106)Ala+(0.0101)Pro+(0.0169)Orn+(-0.0198)Lys;0.694,0.737,0.800,0.816,0.800,0.817,0.746,0.795,(5.3690)+(-0.0392)Asn+(-0.0045)Ala+(-0.0624)Cit+(-0.0970)Met+(0.0015)Lys;0.694,0.737,0.592,0.624,0.537,0.656,0.573,0.597,(-2.7932)+(0.0242)Ser+(0.0001)Pro+(-0.0882)Tyr+(0.0272)Ile+(0.0400)P

he;0.694,0.735,0.778,0.803,0.792,0.804,0.665,0.766,(5.2904)+(-0.0523)Asn+(0.0031)Gly+(-0.0591)Cit+(-0.0052)Val+(-0.1057)Met;0.694,0.735,0.764,0.784,0.787,0.781,0.649,0.750,(4.6446)+(-0.0468)Asn+(0.0036)Gly+(-0.0654)Cit+(-0.1349)Met+(0.0007)Lys;0.694,0.740,0.754,0.792,0.719,0.864,0.648,0.756,(1.2859)+(0.0281)Ser+(-0.0057)Ala+(-0.0184)Arg+(-0.0053)Val+(-0.0083)Lys;0.694,0.736,0.767,0.769,0.756,0.834,0.735,0.774,(4.1075)+(0.0073)Thr+(-0.0115)Ala+(-0.0837)Cit+(0.0122)Pro+(-0.0105)Lys;0.694,0.735,0.784,0.810,0.790,0.805,0.687,0.773,(2.2691)+(0.0008)Gly+(0.0062)Gln+(-0.0736)Cit+(-0.1998)Met+(-0.0037)Lys;0.694,0.733,0.723,0.728,0.688,0.826,0.707,0.737,(1.0991)+(0.0246)Ser+(-0.0088)Ala+(-0.0745)Cit+(-0.0214)Val+(0.0361)Leu;0.694,0.732,0.751,0.748,0.726,0.803,0.775,0.763,(1.7363)+(0.0005)Thr+(-0.0138)Ala+(-0.0895)Cit+(0.0105)Pro+(0.0401)Phe;0.694,0.737,0

.789,0.808,0.761,0.798,0.791,0.790,(2.6041)+(-0.1242)Asn+(0.0109)Thr+(-0.0077)Ala+(-0.0138)Leu+(0.0653)Phe;0.694,0.740,0.715,0.721,0.748,0.728,0.619,0.704,(2.0647)+(-0.1410)Asn+(0.0056)Gly+(0.0079)Thr+(-0.0859)Cit+(0.0491)Phe;0.694,0.744,0.752,0.802,0.714,0.860,0.618,0.749,(1.5654)+(0.0260)Ser+(-0.0050)Ala+(-0.0210)Arg+(-0.0236)Tyr+(-0.0056)Val;0.694,0.739,0.741,0.724,0.757,0.742,0.754,0.744,(2.5923)+(-0.1093)Asn+(-0.0766)Cit+(-0.0022)Pro+(0.0250)Ile+(0.0264)Phe;0.694,0.740,0.791,0.799,0.793,0.816,0.748,0.789,(4.6321)+(-0.0056)Ala+(-0.0671)Cit+(-0.1376)Met+(-0.0026)Lys+(0.0113)Leu;0.694,0.732,0.750,0.770,0.751,0.755,0.693,0.742,(3.6044)+(-0.0438)Asn+(0.0016)Gly+(0.0080)Pro+(-0.1919)Met+(-0.0022)Leu;0.694,0.742,0.726,0.761,0.674,0.791,0.694,0.730,(1.4635)+(0.0317)Ser+(-0.0111)Gly+(-0.0540)Tyr+(-0.0117)Val+(0.0257)Orn;0.694,0.737,0.767,0.804,0.742,0.784,0.707,0.759,(2.2858)+(0.0041)Gln+(0.0107)Pro+(-0.0105)Val+(-0.2391)Met+(0.0005)Lys;0.694,0.736,0.799,0.822,0.774,0.794,0.795,0.796,(2.8811)+(-0.0921)Asn+(-0.0069)Ala+(-0.0

106)Arg+(-0.0124)Leu+(0.0671)Phe;0.694,0.735,0.762,0.775,0.777,0.735,0.719,0.751,(3.1390)+(-0.1091)Asn+(-0.0686)Cit+(0.0036)Pro+(-0.0194)Leu+(0.0628)Phe;0.694,0.735,0.765,0.787,0.786,0.785,0.648,0.751,(4.7776)+(-0.0467)Asn+(0.0035)Gly+(-0.0647)Cit+(-0.0038)Tyr+(-0.1249)Met;0.694,0.734,0.747,0.777,0.748,0.774,0.648,0.737,(1.5622)+(0.0038)Gln+(0.0175)Thr+(-0.2788)Met+(-0.0090)Lys+(0.0076)Leu;0.694,0.732,0.756,0.755,0.733,0.805,0.772,0.766,(1.8980)+(-0.0134)Ala+(-0.0834)Cit+(-0.0061)Arg+(0.0106)Pro+(0.0422)Phe;0.694,0.741,0.707,0.705,0.698,0.759,0.694,0.714,(3.4491)+(-0.0781)Cit+(0.0054)Arg+(-0.0471)Tyr+(-0.0184)Lys+(0.0524)Ile;0.694,0.735,0.758,0.804,0.707,0.768,0.734,0.753,(1.7093)+(-0.0065)Ala+(-0.0521)Tyr+(-0.0101)Lys+(-0.0068)Leu+(0.0787)Phe;0.694,0.735,0.713,0.738,0.694,0.723,0.682,0.709,(3.4165)+(-0.0810)Asn+(-0.0146)Arg+(-0.0533)Tyr+(0.0214)Orn+(0.0305)Ile;0.694,0.737,0.676,0.697,0.684,0.709,0.575,0.666,(1.1193)+(0.0000)Gly+(-0.1067)Cit+(-0.0786)Tyr+(0.0420)Orn+(0.0528)Phe;0.694,0.734,0.789,0.835,0.740,0.819,0.746,0.785,(3.2261)+(-0.1221)Asn+(0.0049)Gln+(0.0124)Thr+(-0.0055)Ala+(-0.0341)Tyr;0.694,0.735,0.759,0.804,0.709,0.776,0.732,0.755,(1.9639)+(-0.0068)Ala+(-0.0121)Arg+(-0.0496)Tyr+(-0.0084)Lys+(0.0733)Phe;0.694,0.734,0.813,0.862,0.772,0.819,0.767,0.805,(3.7065)+(-0.1160)Asn+(-0.0013)Gly+(0.0064)Gln+(-0.0258)Tyr+(-0.0107)Val;0.694,0.738,0.761,0.779,0.768,0.781,0.686,0.753,(4.5246)+(-0.0562)Cit+(0.0111)Pro+(-0.0088)Val+(-0.2002)Met+(0.0031)Lys;0.694,0.737,0.754,0.759,0.773,0.771,0.685,0.747,(4.1502)+(-0.0648)Cit+(0.0027)Arg+(0.0086)Pro+(-0.2046)Met+(-0.0021)Lys;0.694,0.733,0.753,0.778,0.747,0.769,0.688,0.746,(3.9243)+(-0.0571)Asn+(-0.0198)Tyr+(-0.1308)Met+(0.0290)Orn+(-0.0037)Leu;0.694,0.738,0.796,0.833,0.777,0.786,0.747,0.786,(2.2728)+(-0.0714)Asn+(0.0064)Gln+(-0.0128)Tyr+(-0.1598)Met+(0.0004)Leu;0.694,0.743,0.731,0.757,0.665,0.815,0.739,0.744,(0.7776)+(0.0328)Ser+(-0.0093)Gly+(-0.0068)Ala+(

-0.0483)Tyr+(0.0191)Orn;0.694,0.736,0.773,0.782,0.786,0.759,0.733,0.765,(3.3915)+(-0.0948)Asn+(-0.0681)Cit+(-0.0068)Lys+(-0.0136)Leu+(0.0662)Phe;0.694,0.734,0.763,0.821,0.714,0.767,0.706,0.752,(1.7168)+(-0.0064)Ala+(-0.0172)Arg+(-0.0529)Tyr+(-0.0116)Leu+(0.0821)Phe;0.694,0.741,0.760,0.799,0.761,0.806,0.619,0.746,(3.7623)+(0.0231)Thr+(-0.0039)Ala+(-0.0153)Arg+(-0.0076)Tyr+(-0.2116)Met;0.694,0.740,0.753,0.798,0.764,0.806,0.574,0.735,(4.1107)+(0.0241)Thr+(-0.0163)Arg+(-0.0064)Tyr+(-0.0073)Val+(-0.2197)Met;0.694,0.736,0.752,0.778,0.705,0.770,0.770,0.756,(5.6759)+(-0.1129)Asn+(0.0088)Pro+(-0.0253)Tyr+(-0.0373)Val+(0.0496)Leu;0.693,0.733,0.763,0.793,0.750,0.782,0.699,0.756,(6.0180)+(-0.0808)Asn+(-0.0524)Cit+(0.0098)Pro+(-0.0287)Tyr+(-0.0105)Val;0.693,0.736,0.803,0.830,0.772,0.828,0.778,0.802,(1.8089)+(0.0048)Gln+(-0.0046)Ala+(-0.1986)Met+(-0.0059)Lys+(0.0093)Leu;0.693,0.735,0.761,0.808,0.700,0.781,0.751,0.760,(0.9610)+(0.0024)Gln+(-0.0072)Ala+(-0.0531)Tyr+(-0.0135)Lys+(0.0707)Phe;0.693,0.734,0.803,0.837,0.786,0.826,0.734,0.796,(3.4371)+(-0.1280)Asn+(0.0016)Gly+(0.0073)Gln+(-0.0705)Cit+(-0.0099)Val;0.693,0.733,0.672,0.659,0.682,0.792,0.600,0.683,(0.0709)+(0.0173)Ser+(-0.1003)Cit+(-0.0297)Val+(0.0423)Orn+(0.0287)Leu;0.693,0.739,0.778,0.792,0.779,0.755,0.758,0.771,(0.9765)+(-0.1440)Asn+(0.0074)Gln+(-0.0817)Cit+(-0.0066)Arg+(0.0405)Phe;0.693,0.738,0.758,0.772,0.717,0.830,0.753,0.768,(0.5264)+(0.0356)Ser+(-0.0070)Gly+(0.0000)Gln+(-0.0081)Ala+(-0.0238)Arg;0.693,0.740,0.696,0.707,0.675,0.822,0.624,0.707,(0.7227)+(0.0306)Ser+(-0.0186)Arg+(-0.0298)Val+(-0.0155)Lys+(0.0434)Leu;0.693,0.740,0.710,0.747,0.716,0.796,0.538,0.699,(1.8528)+(0.0258)Ser+(-0.0597)Cit+(-0.0136)Arg+(-0.0346)Tyr+(-0.0058)Val;0.693,0.735,0.753,0.776,0.746,0.748,0.708,0.745,(4.1078)+(-0.0411)Asn+(0.0086)Pro+(-0.0181)Tyr+(-0.1625)Met+(-0.0010)Lys;0.693,0.734,0.805,0.836,0.796,0.804,0.742,0.794,(2.2063)+(-0.0626)Asn+(0.0070)Gln+(-0.0109)Arg+(-0.170

2)Met+(-0.0011)Lys;0.693,0.730,0.745,0.760,0.703,0.775,0.771,0.752,(5
.0698)+(-0.1319)Asn+(0.0021)Gly+(0.0074)Pro+(-0.0413)Val+(0.0533)Leu;
0.693,0.735,0.751,0.758,0.770,0.765,0.682,0.744,(3.9833)+(-0.0649)Cit
+(0.0017)Arg+(0.0084)Pro+(-0.2138)Met+(0.0010)Leu;0.693,0.735,0.772,0
.790,0.743,0.792,0.772,0.774,(6.0851)+(-0.0981)Asn+(-0.0441)Cit+(-0.0
170)Tyr+(-0.0322)Val+(0.0487)Leu;0.693,0.740,0.755,0.798,0.768,0.805,
0.580,0.738,(3.9652)+(0.0235)Thr+(-0.0168)Arg+(-0.0080)Val+(-0.2330)M
et+(0.0017)Lys;0.693,0.739,0.700,0.737,0.641,0.753,0.691,0.705,(1.478
0)+(0.0350)Ser+(-0.0111)Gly+(0.0094)Pro+(-0.0572)Tyr+(-0.0117)Val;0.6
93,0.734,0.805,0.828,0.790,0.834,0.754,0.801,(5.9599)+(-0.0651)Asn+(-
0.0044)Ala+(-0.0592)Cit+(-0.0120)Tyr+(-0.0043)Val;0.693,0.741,0.755,0
.786,0.743,0.792,0.673,0.749,(2.8877)+(0.0194)Thr+(-0.0048)Ala+(-0.00
83)Tyr+(-0.2377)Met+(0.0081)Leu;0.693,0.737,0.606,0.562,0.607,0.733,0
.626,0.632,(-2.5173)+(0.0337)Ser+(0.0045)Orn+(-0.0352)Lys+(0.0394)Ile
+(0.0177)Phe;0.693,0.736,0.801,0.822,0.788,0.825,0.756,0.797,(5.6625)
+(-0.0609)Asn+(-0.0053)Ala+(-0.0641)Cit+(-0.0151)Tyr+(-0.0006)Lys;0.6
93,0.734,0.763,0.797,0.758,0.787,0.668,0.752,(1.9069)+(-0.0021)Gly+(0
.0042)Gln+(0.0176)Thr+(-0.2655)Met+(-0.0068)Lys;0.693,0.734,0.804,0.8
35,0.795,0.801,0.741,0.793,(2.1575)+(-0.0631)Asn+(-0.0000)Gly+(0.0070
)Gln+(-0.0114)Arg+(-0.1734)Met;0.693,0.735,0.757,0.780,0.749,0.798,0.
684,0.753,(5.0260)+(-0.1070)Asn+(-0.0144)Arg+(0.0069)Pro+(-0.0187)Val
+(0.0380)Orn;0.693,0.739,0.709,0.709,0.701,0.762,0.688,0.715,(3.5172)
+(-0.0734)Cit+(-0.0001)Pro+(-0.0461)Tyr+(-0.0170)Lys+(0.0516)Ile;0.69
3,0.738,0.692,0.687,0.746,0.803,0.511,0.687,(0.2750)+(0.0216)Ser+(-0.
0927)Cit+(-0.0218)Arg+(0.0373)Orn+(-0.0145)Leu;0.693,0.743,0.750,0.78
2,0.714,0.854,0.666,0.754,(0.7938)+(0.0302)Ser+(-0.0024)Thr+(-0.0065)
Ala+(-0.0169)Arg+(-0.0105)Lys;0.693,0.731,0.789,0.808,0.739,0.832,0.8
14,0.798,(2.5846)+(-0.1124)Asn+(0.0004)Gly+(0.0040)Gln+(-0.0096)Ala+(

0.0095)Pro;0.693,0.735,0.724,0.748,0.715,0.746,0.664,0.718,(2.7812)+(-0.0006)Gly+(0.0077)Pro+(-0.0212)Tyr+(-0.2190)Met+(0.0210)Orn;0.693,0.737,0.752,0.790,0.711,0.753,0.733,0.747,(2.0492)+(-0.1023)Asn+(0.0058)Gln+(-0.0173)Arg+(-0.0507)Tyr+(0.0340)Ile;0.693,0.737,0.671,0.693,0.680,0.705,0.572,0.662,(1.1048)+(-0.1061)Cit+(0.0017)Pro+(-0.0803)Tyr+(0.0410)Orn+(0.0516)Phe;0.693,0.731,0.733,0.753,0.742,0.773,0.631,0.725,(2.9643)+(-0.0014)Gly+(0.0156)Thr+(-0.2428)Met+(0.0207)Orn+(-0.0082)Lys;0.693,0.738,0.751,0.803,0.668,0.778,0.765,0.754,(1.4075)+(-0.0066)Ala+(-0.0512)Tyr+(-0.0241)Val+(0.0261)Leu+(0.0729)Phe;0.693,0.742,0.666,0.656,0.643,0.805,0.640,0.686,(0.1003)+(0.0265)Ser+(-0.0334)Val+(0.0250)Orn+(-0.0242)Lys+(0.0470)Leu;0.693,0.729,0.787,0.812,0.746,0.832,0.777,0.792,(5.3218)+(-0.0821)Asn+(-0.0070)Ala+(-0.0068)Arg+(0.0131)Pro+(-0.0115)Val;0.693,0.741,0.729,0.709,0.754,0.730,0.729,0.730,(2.5296)+(-0.1273)Asn+(0.0082)Thr+(-0.0800)Cit+(0.0207)Ile+(0.0260)Phe;0.693,0.739,0.786,0.808,0.789,0.825,0.694,0.779,(4.4478)+(0.0027)Gly+(-0.0046)Ala+(-0.0688)Cit+(-0.1340)Met+(0.0005)Lys;0.693,0.736,0.769,0.795,0.758,0.781,0.715,0.762,(5.1041)+(-0.0486)Asn+(-0.0049)Arg+(0.0111)Pro+(-0.0112)Val+(-0.1447)Met;0.693,0.738,0.725,0.735,0.751,0.735,0.635,0.714,(2.0798)+(-0.1245)Asn+(0.0060)Gly+(-0.0825)Cit+(-0.0012)Arg+(0.0509)Phe;0.693,0.738,0.752,0.776,0.735,0.793,0.695,0.750,(4.6949)+(-0.1338)Asn+(0.0068)Thr+(0.0064)Pro+(-0.0195)Val+(0.0318)Orn;0.693,0.735,0.747,0.794,0.753,0.779,0.586,0.728,(1.9968)+(0.0045)Gln+(0.0210)Thr+(-0.0209)Arg+(-0.0119)Tyr+(-0.2561)Met;0.693,0.740,0.760,0.782,0.764,0.783,0.680,0.752,(4.8162)+(-0.0554)Cit+(0.0113)Pro+(-0.0093)Tyr+(-0.0076)Val+(-0.1760)Met;0.693,0.733,0.698,0.730,0.678,0.765,0.604,0.694,(-1.5264)+(0.0315)Ser+(-0.0082)Thr+(-0.0294)Arg+(-0.0172)Val+(0.0589)Phe;0.693,0.733,0.731,0.757,0.752,0.767,0.593,0.717,(3.0332)+(-0.0009)Gly+(0.0187)Thr+(-0.0184)Arg+(-0.2567)Met+(0.0190)Orn;0

.693,0.730,0.770,0.792,0.760,0.799,0.713,0.766,(1.8207)+(-0.0016)Gly+(0.0041)Gln+(-0.2205)Met+(0.0231)Orn+(-0.0084)Lys;0.693,0.734,0.714,0.775,0.699,0.713,0.580,0.692,(1.3140)+(-0.0256)Arg+(-0.0697)Tyr+(0.0290)Orn+(-0.0228)Leu+(0.0785)Phe;0.693,0.733,0.797,0.813,0.753,0.835,0.817,0.805,(2.9403)+(-0.0998)Asn+(0.0045)Gln+(-0.0090)Ala+(0.0097)Pro+(-0.0072)Lys;0.693,0.733,0.709,0.759,0.686,0.658,0.658,0.691,(2.3797)+(-0.1291)Asn+(0.0003)Gly+(0.0155)Thr+(-0.0730)Tyr+(0.0716)Phe;0.693,0.741,0.749,0.780,0.714,0.856,0.660,0.753,(0.7962)+(0.0292)Ser+(0.0002)Gln+(-0.0066)Ala+(-0.0178)Arg+(-0.0112)Lys;0.693,0.740,0.786,0.794,0.786,0.808,0.751,0.785,(4.3101)+(-0.0058)Ala+(-0.0729)Cit+(0.0060)Arg+(-0.1525)Met+(0.0107)Leu;0.693,0.736,0.722,0.741,0.733,0.756,0.624,0.713,(2.8163)+(0.0176)Thr+(0.0068)Pro+(-0.2769)Met+(-0.0066)Lys+(0.0035)Leu;0.693,0.734,0.780,0.807,0.788,0.794,0.679,0.767,(2.1078)+(0.0009)Gly+(0.0061)Gln+(-0.0716)Cit+(-0.0037)Arg+(-0.2101)Met;0.693,0.734,0.761,0.819,0.692,0.762,0.750,0.756,(1.5957)+(-0.0015)Gly+(-0.0059)Ala+(-0.0552)Tyr+(-0.0120)Val+(0.0832)Phe;0.693,0.733,0.772,0.771,0.757,0.829,0.764,0.780,(4.1125)+(-0.0115)Ala+(-0.0806)Cit+(0.0124)Pro+(-0.0091)Lys+(0.0038)Leu;0.693,0.735,0.709,0.745,0.671,0.681,0.712,0.702,(1.9671)+(-0.1056)Asn+(0.0018)Gly+(-0.0662)Tyr+(0.0251)Ile+(0.0537)Phe;0.693,0.731,0.727,0.753,0.748,0.780,0.578,0.715,(3.1994)+(0.0184)Thr+(-0.0166)Arg+(-0.2386)Met+(0.0218)Orn+(-0.0057)Lys;0.693,0.742,0.708,0.751,0.629,0.833,0.667

,0.720,(1.1343)+(0.0212)Ser+(-0.0090)Ala+(0.0141)Pro+(-0.0374)Tyr+(-0.0085)Val;0.692,0.738,0.739,0.780,0.722,0.740,0.666,0.727,(2.3935)+(-0.0641)Cit+(-0.0580)Tyr+(-0.0100)Val+(-0.0087)Lys+(0.0894)Phe;0.692,0.737,0.768,0.793,0.754,0.812,0.700,0.765,(3.4942)+(-0.0047)Ala+(-0.0130)Arg+(-0.0101)Tyr+(-0.1516)Met+(0.0311)Orn;0.692,0.735,0.745,0.770,0.734,0.769,0.687,0.740,(1.3968)+(0.0032)Gln+(0.0070)Pro+(-0.2647)Met

+(0.0152)Orn+(-0.0037)Leu;0.692,0.740,0.788,0.807,0.792,0.828,0.698,0.781,(4.3781)+(0.0029)Gly+(-0.0048)Ala+(-0.0695)Cit+(0.0054)Tyr+(-0.1406)Met;0.692,0.733,0.765,0.791,0.750,0.776,0.718,0.759,(1.6973)+(-0.0007)Gly+(0.0046)Gln+(0.0076)Pro+(-0.2481)Met+(-0.0053)Lys;0.692,0.744,0.743,0.773,0.715,0.847,0.649,0.746,(0.2482)+(0.0243)Ser+(-0.0085)Ala+(-0.0277)Arg+(0.0207)Orn+(-0.0051)Leu;0.692,0.738,0.756,0.789,0.736,0.771,0.698,0.748,(1.8853)+(0.0044)Gln+(0.0084)Pro+(-0.0143)Tyr+(-0.2278)Met+(-0.0048)Lys;0.692,0.735,0.678,0.704,0.682,0.710,0.578,0.669,(0.8021)+(0.0009)Gln+(-0.1078)Cit+(-0.0797)Tyr+(0.0408)Orn+(0.0527)Phe;0.692,0.740,0.693,0.728,0.705,0.776,0.517,0.682,(1.3444)+(0.0267)Ser+(-0.0657)Cit+(-0.0137)Arg+(-0.0421)Tyr+(-0.0011)Leu;0.692,0.733,0.750,0.779,0.746,0.773,0.667,0.741,(1.4314)+(-0.0019)Gly+(0.0032)Gln+(0.0135)Thr+(-0.2856)Met+(0.0123)Orn;0.692,0.734,0.733,0.789,0.685,0.759,0.666,0.725,(1.3069)+(0.0124)Thr+(-0.0081)Ala+(-0.0241)Arg+(-0.0616)Tyr+(0.0719)Phe;0.692,0.738,0.588,0.532,0.599,0.727,0.613,0.618,(-1.7352)+(0.0394)Ser+(-0.0036)Gln+(-0.0330)Lys+(0.0424)Ile+(0.0226)Phe;0.692,0.731,0.767,0.797,0.717,0.802,0.764,0.770,(4.7395)+(-0.0748)Asn+(-0.0081)Ala+(0.0129)Pro+(-0.0313)Tyr+(-0.0032)Leu;0.692,0.739,0.727,0.754,0.699,0.787,0.669,0.727,(1.6739)+(0.0424)Ser+(-0.0097)Gly+(-0.0173)Arg+(-0.0403)Tyr+(-0.0110)Lys;0.692,0.735,0.756,0.797,0.746,0.768,0.661,0.743,(1.8385)+(-0.0024)Gly+(0.0038)Gln+(0.0173)Thr+(-0.0147)Tyr+(-0.2640)Met;0.692,0.729,0.713,0.704,0.718,0.791,0.674,0.722,(2.1409)+(-0.0071)Thr+(-0.0975)Cit+(-0.0293)Val+(0.0525)Orn+(0.0279)Leu;0.692,0.734,0.705,0.738,0.699,0.786,0.569,0.698,(1.4995)+(0.0262)Ser+(-0.0055)Thr+(-0.0703)Cit+(-0.0352)Tyr+(-0.0053)Val;0.692,0.739,0.784,0.804,0.786,0.823,0.697,0.778,(4.3681)+(0.0027)Gly+(-0.0047)Ala+(-0.0723)Cit+(0.0044)Arg+(-0.1374)Met;0.692,0.738,0.707,0.693,0.719,0.801,0.652,0.716,(0.6579)+(0.0246)Ser+(-0.0062)Gly+(-0.0970)Cit+(-0.0151)

Val+(0.0419)Orn;0.692,0.736,0.786,0.796,0.770,0.831,0.759,0.789,(4.13
78)+(-0.0745)Asn+(-0.0067)Ala+(-0.0105)Arg+(0.0318)Orn+(-0.0071)Lys;0
.692,0.734,0.771,0.785,0.783,0.747,0.725,0.760,(3.2017)+(-0.1053)Asn+
(-0.0671)Cit+(-0.0017)Arg+(-0.0174)Leu+(0.0650)Phe;0.692,0.733,0.755,
0.787,0.752,0.766,0.669,0.743,(1.3944)+(-0.0017)Gly+(0.0037)Gln+(0.01
62)Thr+(-0.2940)Met+(0.0026)Leu;0.692,0.730,0.772,0.786,0.744,0.808,0
.765,0.776,(0.7964)+(0.0024)Gln+(-0.0107)Ala+(-0.0888)Cit+(-0.0066)Le
u+(0.0529)Phe;0.692,0.737,0.749,0.761,0.764,0.762,0.675,0.740,(4.2483
)+(-0.0624)Cit+(0.0091)Pro+(-0.0136)Tyr+(-0.1905)Met+(0.0010)Leu;0.69
2,0.731,0.766,0.794,0.718,0.799,0.769,0.770,(4.7298)+(-0.0713)Asn+(-0
.0082)Ala+(0.0126)Pro+(-0.0308)Tyr+(-0.0025)Lys;0.692,0.736,0.765,0.7
92,0.752,0.802,0.698,0.761,(4.7422)+(-0.1300)Asn+(-0.0003)Gly+(0.0082
)Thr+(-0.0174)Val+(0.0337)Orn;0.692,0.734,0.668,0.642,0.700,0.763,0.6
03,0.677,(-1.2221)+(0.0315)Ser+(-0.0242)Thr+(-0.1082)Cit+(0.0004)Pro+
(0.0378)Orn;0.692,0.731,0.753,0.759,0.737,0.824,0.722,0.760,(3.0696)+
(0.0026)Gly+(-0.0123)Ala+(-0.0855)Cit+(-0.0041)Arg+(0.0126)Pro;0.692,
0.738,0.763,0.779,0.770,0.787,0.686,0.755,(4.6616)+(-0.0567)Cit+(0.00
09)Arg+(0.0109)Pro+(-0.0079)Val+(-0.1908)Met;0.692,0.736,0.766,0.799,
0.757,0.777,0.691,0.756,(1.6976)+(0.0051)Gln+(-0.0148)Arg+(0.0079)Pro
+(-0.2455)Met+(-0.0018)Leu;0.692,0.730,0.679,0.674,0.712,0.787,0.548,
0.680,(0.8047)+(0.0315)Ser+(-0.0744)Cit+(-0.0084)Arg+(0.0043)Pro+(-0.
0189)Lys;0.692,0.733,0.680,0.711,0.670,0.752,0.567,0.675,(-1.4059)+(0
.0280)Ser+(-0.0346)Arg+(0.0047)Pro+(-0.0198)Val+(0.0539)Phe;0.692,0.7
35,0.797,0.816,0.781,0.824,0.761,0.796,(5.5689)+(-0.0666)Asn+(-0.0056
)Ala+(-0.0688)Cit+(0.0057)Arg+(-0.0161)Tyr;0.692,0.736,0.702,0.748,0.
677,0.654,0.663,0.686,(2.3882)+(-0.1282)Asn+(0.0147)Thr+(0.0035)Pro+(
-0.0762)Tyr+(0.0690)Phe;0.692,0.733,0.712,0.732,0.624,0.781,0.792,0.7
32,(1.6315)+(-0.0011)Thr+(-0.0121)Ala+(0.0080)Pro+(-0.0490)Tyr+(0.045

4)Ile;0.692,0.735,0.776,0.808,0.742,0.819,0.731,0.775,(1.8837)+(0.003
2)Gln+(-0.0048)Ala+(-0.0084)Tyr+(-0.1935)Met+(0.0227)Orn;0.692,0.722,
0.764,0.769,0.738,0.821,0.765,0.773,(2.3317)+(0.0024)Gln+(-0.0009)Thr
+(-0.0127)Ala+(-0.0894)Cit+(0.0117)Pro;0.692,0.733,0.575,0.607,0.549,
0.627,0.504,0.572,(-1.3906)+(0.0308)Ser+(-0.0044)Gln+(0.0046)Pro+(-0.
0850)Tyr+(0.0607)Phe;0.692,0.732,0.705,0.751,0.678,0.700,0.643,0.693,
(1.8619)+(-0.0653)Cit+(0.0073)Pro+(-0.0702)Tyr+(-0.0141)Val+(0.0824)P
he;0.692,0.728,0.751,0.755,0.731,0.824,0.726,0.759,(2.9307)+(0.0025)G
ly+(0.0002)Thr+(-0.0126)Ala+(-0.0895)Cit+(0.0126)Pro;0.692,0.734,0.76
5,0.792,0.719,0.790,0.774,0.769,(5.4032)+(-0.1133)Asn+(0.0015)Gly+(-0
.0165)Tyr+(-0.0372)Val+(0.0547)Leu;0.692,0.732,0.733,0.765,0.754,0.75
5,0.591,0.716,(3.1579)+(-0.0005)Gly+(0.0228)Thr+(-0.0164)Arg+(-0.2666
)Met+(0.0037)Leu;0.692,0.736,0.793,0.823,0.794,0.812,0.702,0.783,(2.5
296)+(0.0062)Gln+(-0.0688)Cit+(-0.0039)Val+(-0.1927)Met+(-0.0016)Lys;
0.692,0.734,0.759,0.776,0.762,0.757,0.710,0.751,(3.9073)+(-0.0345)Asn
+(-0.0063)Arg+(0.0079)Pro+(-0.1890)Met+(-0.0007)Lys;0.692,0.739,0.759
,0.796,0.744,0.770,0.683,0.748,(1.8849)+(0.0050)Gln+(-0.0146)Arg+(0.0
084)Pro+(-0.0148)Tyr+(-0.2259)Met;0.692,0.734,0.744,0.775,0.743,0.790
,0.629,0.734,(1.7442)+(0.0032)Gln+(0.0133)Thr+(-0.2565)Met+(0.0169)Or
n+(-0.0088)Lys;0.692,0.732,0.768,0.798,0.732,0.800,0.742,0.768,(4.245
3)+(-0.0854)Asn+(-0.0002)Gly+(-0.0058)Ala+(-0.0326)Tyr+(0.0303)Orn;0.
692,0.728,0.771,0.782,0.736,0.820,0.778,0.779,(3.8885)+(-0.0972)Asn+(
-0.0092)Ala+(0.0100)Pro+(0.0238)Orn+(-0.0096)Leu;0.692,0.736,0.770,0.
796,0.766,0.812,0.683,0.764,(4.9723)+(-0.1018)Asn+(0.0004)Gly+(-0.014
0)Arg+(-0.0163)Val+(0.0405)Orn;0.692,0.731,0.714,0.708,0.729,0.791,0.
643,0.718,(1.3358)+(0.0391)Ser+(-0.0064)Gly+(-0.0649)Cit+(-0.0084)Arg
+(-0.0179)Lys;0.692,0.739,0.590,0.534,0.606,0.737,0.600,0.619,(-1.099
9)+(0.0371)Ser+(-0.0034)Gln+(0.0089)Orn+(-0.0318)Lys+(0.0451)Ile;0.69

2,0.739,0.713,0.783,0.685,0.719,0.579,0.692,(1.5449)+(0.0145)Thr+(-0.0267)Arg+(-0.0703)Tyr+(-0.0163)Val+(0.0895)Phe;0.692,0.731,0.729,0.769,0.708,0.740,0.660,0.719,(4.2823)+(-0.0967)Asn+(0.0063)Pro+(-0.0459)Tyr+(0.0292)Orn+(-0.0125)Leu;0.691,0.734,0.727,0.756,0.749,0.769,0.579,0.713,(2.9158)+(0.0182)Thr+(-0.0185)Arg+(-0.2567)Met+(0.0188)Orn+(0.0001)Leu;0.691,0.737,0.732,0.762,0.652,0.817,0.761,0.748,(-1.7478)+(0.0286)Ser+(-0.0129)Thr+(-0.0082)Ala+(-0.0119)Val+(0.0598)Phe;0.691,0.735,0.678,0.691,0.648,0.712,0.679,0.682,(1.3638)+(-0.0693)Tyr+(0.0180)Orn+(-0.0236)Lys+(0.0342)Ile+(0.0450)Phe;0.691,0.735,0.766,0.771,0.728,0.820,0.790,0.777,(3.4602)+(-0.1045)Asn+(0.0036)Thr+(-0.0102)Ala+(0.0090)Pro+(0.0182)Orn;0.691,0.732,0.730,0.741,0.658,0.829,0.780,0.752,(0.6106)+(0.0310)Ser+(-0.0079)Gly+(-0.0104)Ala+(0.0124)Pro+(-0.0115)Val;0.691,0.738,0.676,0.703,0.653,0.687,0.648,0.673,(0.3192)+(0.0021)Gln+(-0.0864)Cit+(-0.0794)Tyr+(0.0305)Ile+(0.0442)Phe;0.691,0.735,0.619,0.578,0.619,0.746,0.634,0.644,(-1.8187)+(0.0324)Ser+(-0.0046)Pro+(0.0073)Orn+(-0.0333)Lys+(0.0492)Ile;0.691,0.734,0.787,0.813,0.792,0.806,0.697,0.777,(2.3155)+(0.0065)Gln+(-0.0711)Cit+(-0.0022)Arg+(-0.1986)Met+(-0.0034)Lys;0.691,0.734,0.804,0.835,0.795,0.801,0.741,0.793,(2.1532)+(-0.0631)Asn+(0.0070)Gln+(-0.0114)Arg+(-0.1735)Met+(0.0000)Leu;0.691,0.733,0.748,0.768,0.736,0.767,0.704,0.744,(1.3104)+(-0.0009)Gly+(0.0035)Gln+(0.0065)Pro+(-0.2712)Met+(0.0141)Orn;0.691,0.732,0.832,0.875,0.791,0.858,0.784,0.827,(3.4654)+(-0.1072)Asn+(0.0065)Gln+(-0.0036)Ala+(-0.0122)Arg+(-0.0099)Val;0.691,0.733,0.772,0.775,0.754,0.832,0.759,0.780,(4.1587)+(-0.0113)Ala+(-0.0816)Cit+(0.0024)Arg+(0.0127)Pro+(-0.0086)Lys;0.691,0.737,0.756,0.776,0.739,0.794,0.711,0.755,(4.7174)+(-0.1185)Asn+(0.0067)Pro+(-0.0184)Val+(0.0350)Orn+(-0.0018)Lys;0.691,0.736,0.772,0.797,0.767,0.811,0.687,0.766,(5.0082)+(-0.1020)Asn+(-0.0142)Arg+(-0.0165)Val+(0.0405)Orn+(0.0006)Lys;0.691,0.735,0.833,

0.870,0.786,0.859,0.811,0.832,(3.4664)+(-0.1165)Asn+(-0.0005)Gly+(0.0058)Gln+(-0.0040)Ala+(-0.0101)Val;0.691,0.731,0.683,0.673,0.683,0.803,0.622,0.695,(1.1795)+(0.0304)Ser+(-0.0666)Cit+(-0.0244)Val+(-0.0202)Lys+(0.0408)Leu;0.691,0.737,0.676,0.698,0.685,0.709,0.575,0.667,(1.1225)+(0.0000)Thr+(-0.1067)Cit+(-0.0786)Tyr+(0.0420)Orn+(0.0527)Phe;0.691,0.736,0.792,0.822,0.791,0.810,0.702,0.781,(2.5144)+(0.0061)Gln+(-0.0685)Cit+(-0.0022)Tyr+(-0.0042)Val+(-0.1935)Met;0.691,0.735,0.713,0.748,0.674,0.678,0.729,0.707,(2.2374)+(-0.1006)Asn+(0.0020)Pro+(-0.0689)Tyr+(0.0222)Ile+(0.0531)Phe;0.691,0.734,0.770,0.803,0.736,0.801,0.730,0.767,(4.4025)+(-0.0860)Asn+(-0.0053)Ala+(-0.0311)Tyr+(0.0321)Orn+(-0.0046)Leu;0.691,0.729,0.732,0.755,0.741,0.762,0.633,0.723,(2.4156)+(-0.0011)Gly+(0.0146)Thr+(-0.2714)Met+(0.0157)Orn+(0.0003)Leu;0.691,0.732,0.796,0.804,0.782,0.824,0.783,0.798,(5.0637)+(-0.0729)Asn+(-0.0071)Ala+(-0.0739)Cit+(0.0055)Arg+(0.0039)Leu;0.691,0.732,0.716,0.734,0.681,0.743,0.724,0.721,(3.5000)+(-0.0718)Asn+(0.0013)Gly+(-0.0447)Tyr+(-0.0119)Lys+(0.0438)Ile;0.691,0.731,0.680,0.706,0.675,0.759,0.565,0.676,(-0.9340)+(0.0308)Ser+(-0.0021)Gln+(-0.0313)Arg+(-0.0183)Val+(0.0612)Phe;0.691,0.730,0.755,0.774,0.728,0.798,0.727,0.757,(1.3156)+(0.0026)Gly+(-0.0093)Ala+(-0.0809)Cit+(-0.0087)Val+(0.0646)Phe;0.691,0.738,0.762,0.779,0.723,0.834,0.749,0.771,(0.7354)+(0.0357)Ser+(-0.0071)Gly+(-0.0077)Ala+(-0.0237)Arg+(-0.0029)Leu;0.691,0.736,0.718,0.697,0.776,0.815,0.579,0.717,(2.9492)+(0.0010)Gly+(-0.1138)Cit+(0.0553)Orn+(-0.0208)Lys+(-0.0048)Leu;0.691,0.734,0.799,0.806,0.790,0.832,0.777,0.801,(5.2825)+(-0.0615)Asn+(-0.0067)Ala+(-0.0689)Cit+(-0.0037)Lys+(0.0056)Leu;0.691,0.731,0.758,0.775,0.758,0.756,0.715,0.751,(3.8490)+(-0.0394)Asn+(0.0079)Pro+(-0.1886)Met+(-0.0011)Lys+(-0.0020)Leu;0.691,0.728,0.752,0.757,0.732,0.825,0.726,0.760,(2.9621)+(0.0025)Gly+(-0.0125)Ala+(-0.0892)Cit+(0.0126)Pro+(-0.0004)Leu;0.691,0.734,0.646,0.690,0.

643,0.743,0.467,0.636,(0.1325)+(0.0259)Ser+(-0.0301)Arg+(0.0058)Pro+(-0.0586)Tyr+(0.0160)Orn;0.691,0.736,0.724,0.751,0.715,0.754,0.651,0.718,(2.8286)+(0.0081)Pro+(-0.0204)Tyr+(-0.2137)Met+(0.0221)Orn+(-0.0041)Leu;0.691,0.731,0.761,0.784,0.754,0.794,0.692,0.756,(1.6338)+(0.0038)Gln+(-0.2267)Met+(0.0216)Orn+(-0.0089)Lys+(0.0031)Leu;0.691,0.733,0.753,0.787,0.728,0.755,0.711,0.745,(1.7296)+(-0.0011)Gly+(0.0043)Gln+(0.0083)Pro+(-0.0167)Tyr+(-0.2398)Met;0.691,0.730,0.752,0.768,0.731,0.803,0.720,0.755,(1.1472)+(0.0029)Gly+(-0.0105)Ala+(-0.0890)Cit+(-0.0059)Leu+(0.0580)Phe;0.691,0.735,0.683,0.706,0.664,0.768,0.602,0.685,(-1.2753)+(0.0280)Ser+(-0.0327)Arg+(-0.0308)Val+(0.0254)Leu+(0.0491)Phe;0.691,0.737,0.751,0.765,0.765,0.766,0.675,0.743,(4.3671)+(-0.0618)Cit+(0.0093)Pro+(-0.0132)Tyr+(-0.1844)Met+(-0.0011)Lys;0.691,0.728,0.733,0.754,0.744,0.759,0.632,0.723,(2.9522)+(-0.0007)Gly+(0.0204)Thr+(-0.2637)Met+(-0.0075)Lys+(0.0073)Leu;0.691,0.740,0.706,0.716,0.647,0.830,0.715,0.727,(0.1682)+(0.0288)Ser+(-0.0106)Ala+(0.0108)Pro+(-0.0184)Lys+(0.0033)Leu;0.691,0.732,0.734,0.735,0.761,0.810,0.619,0.731,(2.8483)+(-0.0038)Thr+(-0.0910)Cit+(-0.0132)Arg+(-0.0149)Val+(0.0532)Orn;0.691,0.735,0.696,0.732,0.691,0.782,0.552,0.689,(1.5505)+(0.0234)Ser+(0.0001)Gln+(-0.0724)Cit+(-0.0395)Tyr+(-0.0058)Val;0.691,0.733,0.742,0.761,0.720,0.810,0.689,0.745,(1.5329)+(0.0400)Ser+(-0.0088)Gly+(-0.0207)Arg+(-0.0092)Val+(-0.0114)Lys;0.691,0.733,0.801,0.839,0.786,0.796,0.732,0.788,(2.3957)+(-0.0659)Asn+(0.0070)Gln+(-0.0112)Arg+(-0.0122)Tyr+(-0.1488)Met;0.691,0.732,0.811,0.842,0.793,0.827,0.756,0.805,(3.5745)+(-0.1218)Asn+(0.0077)Gln+(-0.0688)Cit+(-0.0094)Val+(-0.0022)Lys;0.691,0.730,0.726,0.755,0.736,0.749,0.609,0.712,(3.0505)+(0.0210)Thr+(-0.0131)Tyr+(-0.2467)Met+(-0.0074)Lys+(0.0083)Leu;0.691,0.729,0.761,0.792,0.727,0.801,0.724,0.761,(1.3453)+(-0.0079)Ala+(-0.0247)Arg+(-0.0165)Val+(0.0314)Orn+(0.0578)

Phe;0.690,0.728,0.706,0.738,0.681,0.710,0.671,0.700,(1.7984)+(-0.0026)Gly+(-0.0699)Tyr+(0.0271)Orn+(-0.0194)Lys+(0.0602)Phe;0.690,0.732,0.771,0.799,0.768,0.795,0.687,0.762,(1.6608)+(-0.0012)Gly+(0.0047)Gln+(-0.0174)Arg+(-0.2294)Met+(0.0217)Orn;0.690,0.743,0.691,0.710,0.654,0.752,0.676,0.698,(1.1406)+(0.0417)Ser+(-0.0104)Gly+(0.0072)Pro+(-0.0522)Tyr+(-0.0161)Lys;0.690,0.737,0.641,0.599,0.664,0.746,0.630,0.660,(-2.3161)+(0.0345)Ser+(-0.0268)Thr+(-0.1071)Cit+(0.0302)Orn+(0.0251)Ile;0.690,0.735,0.679,0.711,0.682,0.759,0.531,0.671,(1.0993)+(0.0246)Ser+(-0.0001)Gln+(-0.0778)Cit+(-0.0466)Tyr+(-0.0012)Leu;0.690,0.730,0.758,0.763,0.736,0.780,0.773,0.763,(5.7815)+(-0.1149)Asn+(-0.0443)Cit+(0.0073)Pro+(-0.0364)Val+(0.0475)Leu;0.690,0.737,0.698,0.738,0.664,0.804,0.587,0.698,(1.1715)+(0.0260)Ser+(-0.0233)Arg+(-0.0349)Tyr+(-0.0269)Val+(0.0362)Leu;0.690,0.735,0.736,0.775,0.721,0.746,0.659,0.725,(0.8712)+(0.0047)Gln+(-0.0821)Cit+(-0.0648)Tyr+(-0.0170)Lys+(0.0768)Phe;0.690,0.734,0.741,0.773,0.740,0.773,0.637,0.731,(1.2725)+(0.0029)Gln+(0.0128)Thr+(-0.2873)Met+(0.0116)Orn+(0.0010)Leu;0.690,0.726,0.767,0.777,0.738,0.806,0.772,0.773,(0.7559)+(0.0023)Gln+(0.0003)Thr+(-0.0114)Ala+(-0.0907)Cit+(0.0459)Phe;0.690,0.726,0.714,0.736,0.712,0.741,0.639,0.707,(-1.2722)+(0.0369)Ser+(-0.0074)Gly+(-0.0348)Arg+(-0.0225)Leu+(0.0449)Phe;0.690,0.737,0.761,0.778,0.703,0.851,0.770,0.776,(1.3180)+(0.0372)Ser+(-0.0082)Gly+(-0.0059)Ala+(-0.0048)Val+(-0.0136)Lys;0.690,0.735,0.724,0.702,0.779,0.815,0.601,0.724,(3.0952)+(-0.1122)Cit+(0.0002)Pro+(0.0555)Orn+(-0.0206)Lys+(-0.0054)Leu;0.690,0.734,0.723,0.768,0.692,0.716,0.673,0.712,(1.9181)+(-0.0626)Cit+(-0.0632)Tyr+(-0.0204)Val+(0.0166)Leu+(0.0792)Phe;0.690,0.734,0.778,0.806,0.784,0.793,0.681,0.766,(2.1544)+(0.0008)Gly+(0.0059)Gln+(-0.0738)Cit+(-0.0043)Tyr+(-0.2062)Met;0.690,0.731,0.761,0.817,0.699,0.774,0.729,0.755,(0.5876)+(0.0029)Gln+(-0.0078)Ala+(-0.0214)Arg+(-0.0555)Tyr+(0.0678)Phe;0.690,0.

735,0.751,0.794,0.745,0.785,0.626,0.738,(1.9383)+(0.0038)Gln+(0.0172)Thr+(-0.0106)Tyr+(-0.2494)Met+(-0.0063)Lys;0.690,0.735,0.733,0.785,0.711,0.723,0.647,0.716,(2.1197)+(-0.0568)Cit+(-0.0086)Arg+(-0.0611)Tyr+(-0.0126)Val+(0.0878)Phe;0.690,0.730,0.732,0.734,0.760,0.810,0.611,0.729,(2.8157)+(-0.0005)Gly+(-0.0894)Cit+(-0.0152)Arg+(-0.0153)Val+(0.0515)Orn;0.690,0.737,0.753,0.778,0.751,0.752,0.696,0.744,(4.2270)+(-0.0377)Asn+(-0.0062)Arg+(0.0087)Pro+(-0.0181)Tyr+(-0.1593)Met;0.690,0.734,0.752,0.785,0.736,0.772,0.685,0.745,(3.9810)+(0.0001)Gly+(0.0115)Pro+(-0.0097)Tyr+(-0.0098)Val+(-0.1944)Met;0.690,0.736,0.604,0.556,0.610,0.746,0.620,0.633,(-1.0937)+(0.0370)Ser+(-0.0028)Gln+(-0.0035)Pro+(-0.0307)Lys+(0.0518)Ile;0.690,0.731,0.703,0.740,0.688,0.723,0.621,0.693,(1.7204)+(-0.0166)Arg+(-0.0655)Tyr+(0.0280)Orn+(-0.0159)Lys+(0.0609)Phe;0.690,0.731,0.756,0.795,0.704,0.770,0.750,0.755,(1.9031)+(-0.0009)Gly+(-0.0069)Ala+(-0.0518)Tyr+(-0.0115)Lys+(0.0721)Phe;0.690,0.726,0.756,0.762,0.732,0.825,0.741,0.765,(2.2441)+(0.0018)Gly+(0.0019)Gln+(-0.0128)Ala+(-0.0923)Cit+(0.0120)Pro;0.690,0.739,0.743,0.747,0.689,0.836,0.777,0.762,(0.6352)+(0.0392)Ser+(-0.0078)Gly+(-0.0075)Ala+(-0.0183)Lys+(0.0068)Leu;0.690,0.740,0.755,0.788,0.689,0.835,0.747,0.765,(1.5775)+(0.0338)Ser+(-0.0091)Gly+(-0.0050)Ala+(-0.0362)Tyr+(-0.0060)Val;0.690,0.732,0.765,0.788,0.742,0.806,0.720,0.764,(3.1182)+(-0.0006)Gly+(-0.0048)Ala+(-0.0102)Tyr+(-0.1691)Met+(0.0275)Orn;0.690,0.732,0.721,0.753,0.726,0.770,0.593,0.710,(3.0153)+(0.0154)Thr+(-0.0156)Tyr+(-0.2198)Met+(0.0220)Orn+(-0.0079)Lys;0.690,0.728,0.751,0.782,0.737,0.763,0.685,0.742,(3.6542)+(0.0004)Gly+(0.0113)Pro+(-0.0109)Val+(-0.2185)Met+(0.0028)Lys;0.690,0.728,0.722,0.742,0.639,0.785,0.798,0.741,(1.6988)+(-0.0016)Gly+(-0.0105)Ala+(-0.0493)Tyr+(0.0104)Orn+(0.0477)Ile;0.690,0.734,0.752,0.777,0.746,0.748,0.705,0.744,(4.1564)+(-0.0430)Asn+(0.0088)Pro+(-0.0182)Tyr+(-0.1595)Met+(-0.0022)Leu;0.690,0.730,0.

731,0.759,0.752,0.762,0.592,0.716,(3.2603)+(0.0234)Thr+(-0.0146)Arg+(-0.2587)Met+(-0.0049)Lys+(0.0062)Leu;0.690,0.732,0.723,0.741,0.735,0.769,0.617,0.716,(2.6859)+(0.0157)Thr+(-0.2527)Met+(0.0186)Orn+(-0.0094)Lys+(0.0049)Leu;0.690,0.730,0.768,0.781,0.728,0.822,0.781,0.778,(3.6511)+(-0.1040)Asn+(0.0011)Gly+(0.0066)Thr+(-0.0099)Ala+(0.0101)Pro;0.690,0.742,0.740,0.763,0.706,0.851,0.670,0.748,(0.5724)+(0.0303)Ser+(-0.0072)Ala+(-0.0168)Arg+(-0.0133)Lys+(0.0059)Leu;0.690,0.740,0.789,0.798,0.791,0.809,0.746,0.786,(4.4715)+(-0.0056)Ala+(-0.0676)Cit+(0.0009)Tyr+(-0.1463)Met+(0.0101)Leu;0.690,0.729,0.697,0.680,0.715,0.781,0.642,0.704,(1.0060)+(0.0383)Ser+(-0.0060)Gly+(-0.0733)Cit+(0.0036)Pro+(-0.0212)Lys;0.690,0.726,0.755,0.768,0.727,0.806,0.743,0.761,(0.5250)+(0.0023)Gly+(0.0018)Gln+(-0.0115)Ala+(-0.0938)Cit+(0.0489)Phe;0.690,0.722,0.765,0.772,0.739,0.822,0.759,0.773,(2.4053)+(0.0023)Gln+(-0.0126)Ala+(-0.0891)Cit+(0.0119)Pro+(-0.0018)Leu;0.690,0.739,0.642,0.709,0.598,0.673,0.536,0.629,(-1.8908)+(0.0211)Ser+(-0.0801)Tyr+(0.0114)Orn+(-0.0204)Leu+(0.0779)Phe;0.690,0.732,0.735,0.775,0.749,0.759,0.580,0.716,(3.6894)+(-0.0012)Gly+(0.0239)Thr+(-0.0165)Arg+(-0.0140)Tyr+(-0.2337)Met;0.690,0.729,0.716,0.738,0.630,0.788,0.785,0.735,(1.3070)+(0.0002)Gln+(-0.0107)Ala+(-0.0485)Tyr+(0.0087)Orn+(0.0487)Ile;0.690,0.734,0.737,0.786,0.685,0.767,0.694,0.733,(1.5688)+(0.0115)Thr+(-0.0074)Ala+(-0.0588)Tyr+(-0.0157)Lys+(0.0752)Phe;0.690,0.733,0.801,0.812,0.788,0.834,0.776,0.802,(5.4234)+(-0.0675)Asn+(-0.0062)Ala+(-0.0723)Cit+(0.0071)Arg+(-0.0033)Lys;0.690,0.732,0.722,0.738,0.687,0.740,0.740,0.726,(3.6956)+(-0.0689)Asn+(0.0011)Pro+(-0.0466)Tyr+(-0.0117)Lys+(0.0417)Ile;0.690,0.734,0.802,0.819,0.768,0.844,0.796,0.807,(2.8228)+(-0.1025)Asn+(0.0044)Gln+(-0.0068)Ala+(0.0256)Orn+(-0.0098)Lys;0.690,0.732,0.751,0.767,0.761,0.786,0.663,0.744,(3.2481)+(-0.0001)Gly+(-0.0113)Arg+(-0.1916)Met+(0.0291)Orn+(-0.0052)Lys;0.690,0.734,0.810,0.859,0.7

70,0.819,0.758,0.801,(3.6030)+(-0.1188)Asn+(0.0061)Gln+(-0.0249)Tyr+(-0.0108)Val+(0.0004)Lys;0.690,0.737,0.738,0.719,0.756,0.733,0.750,0.740,(2.5998)+(-0.1091)Asn+(-0.0752)Cit+(-0.0016)Arg+(0.0224)Ile+(0.0256)Phe;0.690,0.731,0.719,0.769,0.697,0.714,0.637,0.704,(1.7289)+(0.0007)Gly+(-0.0661)Cit+(-0.0636)Tyr+(-0.0125)Val+(0.0862)Phe;0.690,0.728,0.792,0.821,0.774,0.811,0.743,0.787,(4.1460)+(-0.0461)Asn+(0.0014)Gly+(-0.0039)Ala+(-0.1266)Met+(0.0006)Lys;0.690,0.735,0.794,0.825,0.794,0.813,0.700,0.783,(2.5221)+(0.0063)Gln+(-0.0655)Cit+(-0.0041)Arg+(-0.0043)Val+(-0.1927)Met;0.690,0.728,0.714,0.706,0.724,0.791,0.658,0.720,(1.1878)+(0.0401)Ser+(-0.0061)Gly+(-0.0060)Thr+(-0.0697)Cit+(-0.0175)Lys;0.690,0.734,0.754,0.783,0.749,0.760,0.685,0.744,(5.3254)+(-0.0752)Asn+(-0.0612)Cit+(0.0077)Pro+(-0.0371)Tyr+(-0.0056)Leu;0.690,0.730,0.733,0.728,0.649,0.807,0.868,0.763,(0.5248)+(0.0005)Gly+(-0.0094)Thr+(-0.0142)Ala+(0.0065)Pro+(0.0417)Ile;0.690,0.732,0.687,0.679,0.686,0.744,0.667,0.694,(-1.1807)+(0.0452)Ser+(-0.0079)Gly+(-0.0223)Arg+(-0.0235)Lys+(0.0416)Phe;0.690,0.736,0.725,0.704,0.781,0.813,0.598,0.724,(3.1441)+(-0.1104)Cit+(-0.0020)Arg+(0.0555)Orn+(-0.0199)Lys+(-0.0055)Leu;0.690,0.744,0.736,0.782,0.694,0.843,0.624,0.736,(0.9232)+(0.0269)Ser+(-0.0063)Ala+(-0.0216)Arg+(-0.0302)Tyr+(0.0023)Leu;0.690,0.733,0.767,0.813,0.746,0.789,0.677,0.756,(5.5665)+(-0.1115)Asn+(-0.0010)Gly+(0.0170)Thr+(-0.0301)Tyr+(-0.0113)Val;0.690,0.730,0.739,0.771,0.758,0.772,0.590,0.723,(3.5347)+(-0.0007)Gly+(0.0232)Thr+(-0.0152)Arg+(-0.2472)Met+(-0.0028)Lys;0.690,0.737,0.734,0.719,0.750,0.748,0.727,0.736,(3.2438)+(-0.1162)Asn+(0.0085)Thr+(-0.0787)Cit+(-0.0025)Pro+(0.0304)Ile;0.690,0.733,0.735,0.776,0.728,0.772,0.617,0.723,(1.5868)+(0.0028)Gln+(0.0132)Thr+(-0.0148)Tyr+(-0.2609)Met+(0.0140)Orn;0.690,0.731,0.799,0.831,0.763,0.821,0.776,0.798,(1.6551)+(-0.0006)Gly+(0.0045)Gln+(-0.0047)Ala+(-0.2110)Met+(0.0062)Leu;0.690,0.730,0.708,0.760,0.687,0.69

8,0.619,0.691,(1.5739)+(0.0081)Thr+(-0.0684)Cit+(-0.0709)Tyr+(-0.0132)Val+(0.0870)Phe;0.690,0.736,0.704,0.727,0.670,0.734,0.693,0.706,(3.7971)+(-0.0866)Asn+(0.0144)Thr+(-0.0530)Tyr+(-0.0144)Lys+(0.0427)Ile;0.690,0.730,0.740,0.775,0.745,0.769,0.616,0.726,(3.4491)+(-0.0014)Gly+(0.0207)Thr+(-0.0130)Tyr+(-0.2311)Met+(-0.0049)Lys;0.689,0.733,0.694,0.724,0.692,0.814,0.536,0.691,(0.4344)+(0.0225)Ser+(-0.0330)Arg+(0.0052)Pro+(-0.0174)Val+(0.0219)Orn;0.689,0.729,0.723,0.781,0.647,0.737,0.717,0.721,(1.1698)+(-0.0096)Ala+(0.0118)Pro+(-0.0623)Tyr+(-0.0150)Leu+(0.0732)Phe;0.689,0.727,0.730,0.754,0.640,0.790,0.811,0.749,(1.4464)+(-0.0017)Gly+(0.0011)Gln+(-0.0105)Ala+(-0.0482)Tyr+(0.0505)Ile;0.689,0.739,0.722,0.722,0.645,0.806,0.823,0.749,(-0.5911)+(0.0400)Ser+(-0.0066)Gly+(-0.0178)Thr+(-0.01

15)Ala+(0.0122)Pro;0.689,0.739,0.701,0.732,0.705,0.731,0.586,0.689,(2.2237)+(0.0163)Thr+(-0.0791)Cit+(-0.0719)Tyr+(-0.0196)Lys+(0.0817)Phe;0.689,0.733,0.704,0.751,0.681,0.665,0.655,0.688,(2.3095)+(-0.1283)Asn+(0.0128)Thr+(-0.0741)Tyr+(0.0148)Orn+(0.0660)Phe;0.689,0.733,0.776,0.799,0.783,0.783,0.696,0.765,(2.0245)+(0.0061)Gln+(-0.0743)Cit+(-0.0062)Tyr+(-0.2159)Met+(0.0051)Leu;0.689,0.732,0.710,0.685,0.772,0.812,0.575,0.711,(2.8102)+(0.0013)Gly+(-0.1148)Cit+(-0.0005)Pro+(0.0545)Orn+(-0.0225)Lys;0.689,0.729,0.700,0.685,0.714,0.784,0.648,0.708,(2.3085)+(-0.0014)Gln+(-0.0973)Cit+(-0.0308)Val+(0.0511)Orn+(0.0297)Leu;0.689,0.728,0.747,0.761,0.751,0.781,0.678,0.743,(2.9473)+(-0.0003)Gly+(-0.2042)Met+(0.0266)Orn+(-0.0075)Lys+(0.0019)Leu;0.689,0.721,0.764,0.774,0.739,0.829,0.743,0.771,(3.6699)+(0.0024)Thr+(-0.0112)Ala+(-0.0782)Cit+(0.0131)Pro+(-0.0065)Val;0.689,0.736,0.718,0.753,0.689,0.765,0.656,0.716,(1.0060)+(0.0393)Ser+(-0.0098)Gly+(0.0008)Gln+(-0.0244)Arg+(-0.0528)Tyr;0.689,0.730,0.698,0.725,0.612,0.799,0.732,0.717,(-1.5413)+(0.0219)Ser+(-0.0116)Ala+(0.0104)Pro+(-0.0151)Val+(0.0503)Phe;0.689,

0.729,0.721,0.713,0.636,0.805,0.857,0.753,(0.4682)+(-0.0003)Gly+(-0.0008)Gln+(-0.0146)Ala+(0.0058)Pro+(0.0396)Ile;0.689,0.735,0.659,0.683,0.645,0.679,0.609,0.654,(0.8094)+(0.0015)Gly+(-0.0842)Cit+(-0.0761)Tyr+(0.0321)Ile+(0.0450)Phe;0.689,0.747,0.702,0.716,0.670,0.781,0.672,0.710,(1.2232)+(0.0393)Ser+(-0.0107)Gly+(-0.0493)Tyr+(0.0267)Orn+(-0.0186)Lys;0.689,0.731,0.644,0.687,0.640,0.743,0.471,0.635,(0.5076)+(0.0291)Ser+(-0.0011)Gln+(-0.0267)Arg+(0.0072)Pro+(-0.0542)Tyr;0.689,0.729,0.682,0.675,0.705,0.782,0.582,0.686,(0.6280)+(0.0340)Ser+(-0.0087)Thr+(-0.0784)Cit+(0.0050)Pro+(-0.0179)Lys;0.689,0.733,0.655,0.624,0.684,0.743,0.614,0.666,(-2.3096)+(0.0336)Ser+(-0.0260)Thr+(-0.1097)Cit+(0.0346)Orn+(0.0228)Phe;0.689,0.733,0.757,0.796,0.721,0.794,0.703,0.753,(4.2796)+(-0.1012)Asn+(0.0102)Thr+(-0.0060)Ala+(-0.0369)Tyr+(0.0260)Orn;0.689,0.731,0.810,0.844,0.775,0.832,0.778,0.807,(2.0597)+(-0.0010)Gly+(0.0050)Gln+(-0.0039)Ala+(-0.1880)Met+(-0.0034)Lys;0.689,0.732,0.719,0.755,0.736,0.765,0.558,0.704,(3.1910)+(0.0189)Thr+(-0.0190)Arg+(-0.0173)Tyr+(-0.2288)Met+(0.0209)Orn;0.689,0.732,0.775,0.791,0.744,0.820,0.764,0.780,(4.0543)+(-0.0928)Asn+(0.0102)Thr+(-0.0097)Ala+(-0.0129)Arg+(0.0100)Pro;0.689,0.730,0.704,0.750,0.623,0.743,0.723,0.710,(0.7311)+(-0.0110)Ala+(0.0099)Pro+(-0.0640)Tyr+(0.0129)Orn+(0.0537)Phe;0.689,0.739,0.710,0.736,0.717,0.828,0.541,0.706,(0.9429)+(0.0255)Ser+(-0.0250)Arg+(-0.0117)Val+(0.0284)Orn+(-0.0129)Lys;0.689,0.729,0.735,0.731,0.651,0.806,0.868,0.764,(0.5597)+(0.0001)Gln+(-0.0091)Thr+(-0.0142)Ala+(0.0064)Pro+(0.0413)Ile;0.689,0.736,0.750,0.763,0.765,0.763,0.674,0.741,(4.2376)+(-0.0637)Cit+(0.0017)Arg+(0.0092)Pro+(-0.0136)Tyr+(-0.1905)Met;0.689,0.731,0.791,0.813,0.772,0.810,0.755,0.788,(3.8883)+(-0.0427)Asn+(0.0015)Gly+(-0.0043)Ala+(-0.1387)Met+(0.0057)Leu;0.689,0.736,0.696,0.739,0.660,0.662,0.684,0.686,(2.1495)+(-0.1244)Asn+(0.0138)Thr+(-0.0758)Tyr+(0.0215)Ile+(0.0576)Phe;0.689,0.733,0.700,0.7

21,0.640,0.805,0.697,0.716,(-0.8398)+(0.0272)Ser+(-0.0034)Gln+(-0.008
6)Ala+(-0.0134)Val+(0.0631)Phe;0.689,0.740,0.698,0.704,0.610,0.785,0.
801,0.725,(-2.3605)+(0.0337)Ser+(-0.0215)Thr+(-0.0128)Ala+(0.0111)Pro
+(0.0357)Phe;0.689,0.735,0.757,0.798,0.716,0.867,0.655,0.759,(1.0015)
+(0.0273)Ser+(-0.0036)Thr+(-0.0060)Ala+(-0.0213)Arg+(-0.0071)Val;0.68
9,0.732,0.734,0.731,0.649,0.804,0.869,0.763,(0.3088)+(-0.0093)Thr+(-0
.0144)Ala+(0.0063)Pro+(0.0394)Ile+(0.0091)Phe;0.689,0.729,0.771,0.778
,0.746,0.792,0.787,0.776,(5.7730)+(-0.1120)Asn+(-0.0475)Cit+(0.0036)A
rg+(-0.0348)Val+(0.0502)Leu;0.689,0.726,0.768,0.776,0.746,0.821,0.758
,0.775,(2.3696)+(0.0028)Gln+(-0.0124)Ala+(-0.0842)Cit+(-0.0070)Arg+(0
.0116)Pro;0.689,0.734,0.769,0.793,0.754,0.805,0.711,0.766,(4.7130)+(-
0.1120)Asn+(0.0001)Gly+(-0.0159)Val+(0.0375)Orn+(-0.0022)Lys;0.689,0.
728,0.787,0.811,0.739,0.835,0.792,0.794,(5.1147)+(-0.0935)Asn+(-0.007
2)Ala+(0.0132)Pro+(-0.0123)Val+(0.0018)Lys;0.689,0.738,0.706,0.734,0.
622,0.820,0.721,0.724,(0.1729)+(0.0288)Ser+(-0.0123)Thr+(-0.0099)Ala+
(0.0137)Pro+(-0.0356)Tyr;0.689,0.739,0.746,0.774,0.678,0.820,0.759,0.
758,(0.8813)+(0.0371)Ser+(-0.0085)Gly+(-0.0057)Thr+(-0.0059)Ala+(-0.0
375)Tyr;0.689,0.732,0.812,0.845,0.793,0.824,0.755,0.804,(3.5591)+(-0.
1222)Asn+(0.0078)Gln+(-0.0650)Cit+(-0.0048)Arg+(-0.0101)Val;0.689,0.7
32,0.804,0.821,0.788,0.836,0.769,0.804,(5.7102)+(-0.0738)Asn+(-0.0051
)Ala+(-0.0645)Cit+(0.0045)Arg+(-0.0050)Val;0.689,0.731,0.814,0.854,0.
778,0.835,0.771,0.809,(2.2987)+(-0.0012)Gly+(0.0049)Gln+(-0.0031)Ala+
(-0.0053)Val+(-0.1860)Met;0.689,0.731,0.726,0.745,0.695,0.742,0.733,0
.729,(3.7884)+(-0.0636)Asn+(-0.0067)Arg+(-0.0448)Tyr+(-0.0104)Lys+(0.
0428)Ile;0.689,0.730,0.759,0.795,0.753,0.789,0.658,0.749,(1.8200)+(0.
0043)Gln+(-0.0175)Arg+(-0.0134)Tyr+(-0.2059)Met+(0.0232)Orn;0.689,0.7
32,0.775,0.788,0.738,0.827,0.779,0.783,(4.2228)+(-0.0922)Asn+(0.0095)
Thr+(-0.0094)Ala+(0.0101)Pro+(-0.0073)Lys;0.689,0.729,0.774,0.782,0.7

52,0.835,0.751,0.780,(4.3150)+(-0.0105)Ala+(-0.0751)Cit+(0.0133)Pro+(-0.0045)Val+(-0.0061)Lys;0.689,0.736,0.659,0.682,0.645,0.671,0.618,0.654,(0.9496)+(0.0042)Thr+(-0.0834)Cit+(-0.0802)Tyr+(0.0310)Ile+(0.0448)Phe;0.689,0.729,0.776,0.795,0.738,0.819,0.774,0.781,(3.8785)+(-0.0818)Asn+(0.0018)Gly+(-0.0094)Ala+(-0.0097)Arg+(0.0109)Pro;0.689,0.729,0.722,0.779,0.702,0.706,0.623,0.703,(0.5090)+(0.0030)Gln+(-0.0792)Cit+(-0.0719)Tyr+(-0.0162)Leu+(0.0825)Phe;0.689,0.730,0.762,0.769,0.742,0.810,0.752,0.768,(1.5906)+(-0.0092)Ala+(-0.0171)Arg+(0.0262)Orn+(-0.0146)Lys+(0.0424)Phe;0.689,0.722,0.770,0.782,0.737,0.835,0.756,0.778,(2.8186)+(0.0023)Gln+(-0.0114)Ala+(-0.0818)Cit+(0.0127)Pro+(-0.0064)Val;0.689,0.734,0.716,0.748,0.687,0.764,0.656,0.714,(1.1410)+(0.0406)Ser+(-0.0096)Gly+(-0.0015)Thr+(-0.0228)Arg+(-0.0507)Tyr;0.688,0.727,0.747,0.758,0.724,0.803,0.722,0.752,(1.0528)+(0.0029)Gly+(0.0011)Thr+(-0.0113)Ala+(-0.0914)Cit+(0.0514)Phe;0.688,0.739,0.754,0.766,0.697,0.844,0.776,0.771,(0.8448)+(0.0399)Ser+(-0.0078)Gly+(-0.0049)Thr+(-0.0065)Ala+(-0.0144)Lys;0.688,0.735,0.785,0.801,0.789,0.809,0.716,0.779,(3.0544)+(-0.1278)Asn+(0.0071)Gln+(0.0112)Thr+(-0.0824)Cit+(-0.0113)Lys;0.688,0.734,0.718,0.712,0.632,0.802,0.853,0.750,(0.2246)+(-0.0010)Gln+(-0.0149)Ala+(0.0056)Pro+(0.0380)Ile+(0.0080)Phe;0.688,0.739,0.748,0.781,0.700,0.855,0.685,0.755,(0.2021)+(0.0297)Ser+(-0.0002)Gln+(-0.0068)Thr+(-0.0075)Ala+(-0.0208)Arg;0.688,0.734,0.745,0.744,0.709,0.799,0.782,0.759,(1.3021)+(-0.0116)Ala+(0.0080)Pro+(0.0194)Orn+(-0.0188)Lys+(0.0364)Phe;0.688,0.727,0.771,0.792,0.737,0.805,0.763,0.774,(1.0064)+(0.0022)Gln+(-0.0095)Ala+(-0.0807)Cit+(-0.0088)Val+(0.0591)Phe;0.688,0.735,0.667,0.703,0.661,0.778,0.503,0.661,(0.8094)+(0.0303)Ser+(-0.0210)Arg+(0.0073)Pro+(-0.0437)Tyr+(-0.0120)Lys;0.688,0.732,0.811,0.851,0.775,0.839,0.757,0.806,(2.2282)+(0.0047)Gln+(-0.0031)Ala+(-0.0050)Val+(-0.1854)Met+(-0.0008)Lys;0.688,0.727,0.761,0.778,0.735,0.797,0.

745,0.764,(1.6563)+(0.0039)Thr+(-0.0094)Ala+(-0.0779)Cit+(-0.0092)Val+(0.0614)Phe;0.688,0.730,0.718,0.709,0.634,0.805,0.853,0.750,(0.4335)+(-0.0010)Gln+(-0.0147)Ala+(0.0057)Pro+(0.0017)Orn+(0.0392)Ile;0.688,0.728,0.722,0.731,0.690,0.796,0.712,0.732,(0.9195)+(0.0364)Ser+(-0.0083)Gly+(-0.0270)Arg+(-0.0312)Val+(0.0346)Leu;0.688,0.736,0.732,0.760,0.690,0.796,0.700,0.737,(1.7896)+(0.0390)Ser+(-0.0101)Gly+(-0.0373)Tyr+(-0.0057)Val+(-0.0119)Lys;0.688,0.728,0.773,0.787,0.746,0.810,0.770,0.778,(0.7430)+(0.0030)Gln+(-0.0110)Ala+(-0.0837)Cit+(-0.0090)Arg+(0.0474)Phe;0.688,0.734,0.787,0.813,0.791,0.803,0.695,0.776,(2.3843)+(0.0064)Gln+(-0.0723)Cit+(-0.0044)Tyr+(-0.1918)Met+(-0.0037)Lys;0.688,0.729,0.801,0.836,0.779,0.821,0.740,0.794,(4.8695)+(-0.0534)Asn+(0.0012)Gly+(-0.0026)Ala+(-0.0062)Val+(-0.0996)Met;0.688,0.733,0.716,0.747,0.641,0.810,0.724,0.730,(-1.6742)+(0.0198)Ser+(-0.0095)Ala+(-0.0154)Val+(0.0163)Orn+(0.0542)Phe;0.688,0.733,0.742,0.784,0.737,0.757,0.629,0.727,(1.4757)+(0.0033)Gln+(0.0163)Thr+(-0.0127)Tyr+(-0.2769)Met+(0.0039)Leu;0.688,0.738,0.765,0.794,0.766,0.817,0.649,0.756,(5.1220)+(-0.1167)Asn+(0.0114)Thr+(-0.0174)Arg+(-0.0175)Val+(0.0367)Orn;0.688,0.734,0.731,0.716,0.751,0.745,0.714,0.732,(3.2736)+(-0.1139)Asn+(0.0088)Thr+(-0.0753)Cit+(-0.0047)Arg+(0.0272)Ile;0.688,0.733,0.748,0.783,0.727,0.758,0.694,0.741,(1.6854)+(0.0040)Gln+(0.0084)Pro+(-0.0153)Tyr+(-0.2405)Met+(-0.0012)Leu;0.688,0.733,0.783,0.798,0.764,0.828,0.749,0.785,(3.7065)+(-0.0855)Asn+(0.0011)Gly+(-0.0072)Ala+(-0.0135)Arg+(0.0281)Orn;0.688,0.732,0.805,0.824,0.791,0.838,0.761,0.804,(5.7540)+(-0.0719)Asn+(-0.0049)Ala+(-0.0606)Cit+(-0.0054)Val+(0.0010)Lys;0.688,0.728,0.757,0.784,0.743,0.759,0.714,0.750,(1.4640)+(-0.0006)Gly+(0.0042)Gln+(0.0076)Pro+(-0.2633)Met+(-0.0017)Leu;0.688,0.726,0.726,0.762,0.680,0.792,0.683,0.729,(3.0357)+(-0.0097)Ala+(-0.0204)Arg+(0.0114)Pro+(-0.0432)Tyr+(0.0254)Orn;0.688,0.726,0.759,0.771,0.735,0.831,0.723,0.765,

(3.4676)+(0.0020)Gly+(-0.0112)Ala+(-0.0810)Cit+(0.0135)Pro+(-0.0060)Val;0.688,0.745,0.728,0.742,0.682,0.838,0.709,0.743,(0.1315)+(0.0294)Ser+(-0.0105)Thr+(-0.0073)Ala+(0.0260)Orn+(-0.0158)Lys;0.688,0.729,0.753,0.767,0.733,0.807,0.721,0.757,(1.2003)+(0.0032)Gly+(-0.0108)Ala+(-0.0853)Cit+(-0.0061)Arg+(0.0536)Phe;0.688,0.734,0.754,0.779,0.751,0.760,0.692,0.746,(5.2580)+(-0.0706)Asn+(-0.0619)Cit+(0.0069)Pro+(-0.0368)Tyr+(-0.0035)Lys;0.688,0.725,0.673,0.662,0.703,0.784,0.560,0.677,(0.6801)+(0.0309)Ser+(-0.0819)Cit+(0.0036)Pro+(-0.0216)Lys+(0.0022)Leu;0.688,0.735,0.737,0.764,0.675,0.815,0.738,0.748,(1.0983)+(0.0352)Ser+(-0.0088)Gly+(-0.0005)Gln+(-0.0062)Ala+(-0.0414)Tyr;0.688,0.734,0.709,0.725,0.623,0.817,0.765,0.733,(-1.4348)+(0.0221)Ser+(-0.0097)Ala+(-0.0291)Val+(0.0329)Leu+(0.0467)Phe;0.688,0.735,0.726,0.705,0.781,0.814,0.604,0.726,(3.1219)+(-0.0008)Thr+(-0.1119)Cit+(0.0559)Orn+(-0.0203)Lys+(-0.0053)Leu;0.688,0.731,0.727,0.769,0.660,0.808,0.697,0.733,(2.8806)+(-0.0086)Ala+(0.0126)Pro+(-0.0408)Tyr+(-0.0116)Val+(0.0270)Orn;0.688,0.736,0.749,0.776,0.743,0.748,0.694,0.740,(5.0597)+(-0.0776)Asn+(-0.0639)Cit+(0.0014)Arg+(0.0067)Pro+(-0.0398)Tyr;0.688,0.732,0.709,0.683,0.772,0.811,0.574,0.710,(2.7923)+(0.0013)Gly+(-0.1140)Cit+(-0.0008)Arg+(0.0541)Orn+(-0.0225)Lys;0.688,0.731,0.782,0.792,0.758,0.832,0.772,0.788,(3.9390)+(-0.0833)Asn+(0.0005)Gly+(-0.0068)Ala+(0.0297)Orn+(-0.0087)Lys;0.688,0.729,0.7

77,0.791,0.738,0.828,0.787,0.786,(4.0360)+(-0.0820)Asn+(0.0014)Gly+(-0.0092)Ala+(0.0110)Pro+(-0.0053)Lys;0.688,0.735,0.728,0.734,0.650,0.798,0.823,0.751,(-1.9382)+(0.0391)Ser+(-0.0062)Gly+(-0.0162)Thr+(-0.0099)Ala+(0.0388)Phe;0.688,0.733,0.787,0.804,0.739,0.827,0.809,0.795,(2.6431)+(-0.1206)Asn+(0.0038)Gln+(0.0052)Thr+(-0.0098)Ala+(0.0090)Pro;0.688,0.728,0.701,0.686,0.719,0.787,0.643,0.709,(1.0771)+(0.0384)Ser+(-0.0060)Gly+(-0.0732)Cit+(-0.0212)Lys+(0.0035)Leu;0.688,0.732,0.750,

0.785,0.732,0.765,0.685,0.742,(3.8493)+(0.0117)Pro+(-0.0102)Tyr+(-0.0106)Val+(-0.2032)Met+(0.0030)Lys;0.688,0.732,0.760,0.779,0.763,0.757,0.706,0.751,(4.0034)+(-0.0360)Asn+(-0.0066)Arg+(0.0082)Pro+(-0.1839)Met+(-0.0026)Leu;0.688,0.737,0.701,0.709,0.630,0.810,0.753,0.725,(-1.7270)+(0.0342)Ser+(-0.0025)Gln+(-0.0153)Thr+(-0.0099)Ala+(0.0454)Phe;0.688,0.733,0.693,0.718,0.646,0.714,0.707,0.696,(0.8731)+(0.0017)Gln+(-0.0688)Tyr+(-0.0227)Lys+(0.0381)Ile+(0.0459)Phe;0.688,0.730,0.812,0.859,0.767,0.830,0.771,0.807,(3.0246)+(-0.0948)Asn+(0.0064)Gln+(-0.0048)Ala+(-0.0125)Arg+(-0.0267)Tyr;0.688,0.727,0.762,0.772,0.742,0.803,0.747,0.766,(1.5644)+(0.0030)Thr+(-0.0106)Ala+(-0.0854)Cit+(-0.0066)Leu+(0.0549)Phe;0.688,0.736,0.667,0.690,0.648,0.677,0.641,0.664,(1.0999)+(-0.0810)Cit+(0.0007)Pro+(-0.0770)Tyr+(0.0307)Ile+(0.0445)Phe;0.688,0.732,0.587,0.621,0.563,0.645,0.504,0.583,(-1.3624)+(0.0297)Ser+(-0.0044)Gln+(-0.0820)Tyr+(0.0094)Orn+(0.0607)Phe;0.688,0.748,0.716,0.753,0.670,0.837,0.626,0.722,(0.9778)+(0.0243)Ser+(-0.0063)Ala+(-0.0293)Tyr+(0.0257)Orn+(-0.0156)Lys;0.688,0.729,0.744,0.766,0.745,0.757,0.669,0.735,(3.2547)+(0.0011)Gly+(-0.0089)Arg+(0.0084)Pro+(-0.2210)Met+(-0.0014)Lys;0.688,0.727,0.794,0.823,0.777,0.816,0.739,0.789,(4.2914)+(-0.0426)Asn+(0.0014)Gly+(-0.0038)Ala+(-0.0042)Arg+(-0.1203)Met;0.688,0.735,0.761,0.786,0.748,0.776,0.709,0.755,(1.6208)+(0.0044)Gln+(0.0075)Pro+(-0.2505)Met+(-0.0056)Lys+(0.0013)Leu;0.688,0.726,0.724,0.746,0.638,0.786,0.801,0.742,(1.7653)+(-0.0014)Gly+(0.0016)Thr+(-0.0105)Ala+(-0.0481)Tyr+(0.0511)Ile;0.688,0.730,0.809,0.846,0.782,0.826,0.756,0.802,(2.0715)+(-0.0008)Gly+(0.0056)Gln+(-0.0039)Ala+(-0.0129)Arg+(-0.1848)Met;0.688,0.728,0.717,0.763,0.637,0.734,0.752,0.721,(1.2924)+(-0.0018)Gly+(-0.0107)Ala+(0.0107)Pro+(-0.0629)Tyr+(0.0575)Phe;0.688,0.731,0.738,0.743,0.657,0.839,0.821,0.765,(0.5287)+(0.0309)Ser+(-0.0075)Gly+(-0.0080)Ala+(-0.0296)Val+(0.0410)Leu;0.687,0.732,0.808,0.847,0.78

1,0.832,0.743,0.801,(2.0619)+(0.0054)Gln+(-0.0038)Ala+(-0.0124)Arg+(-0.1822)Met+(-0.0012)Lys;0.687,0.730,0.805,0.837,0.784,0.818,0.755,0.799,(4.8860)+(-0.0570)Asn+(-0.0026)Ala+(-0.0076)Val+(-0.1086)Met+(0.0046)Lys;0.687,0.733,0.803,0.837,0.775,0.820,0.757,0.797,(1.8030)+(0.0053)Gln+(-0.0044)Ala+(-0.0127)Arg+(-0.1970)Met+(0.0061)Leu;0.687,0.731,0.731,0.726,0.649,0.805,0.865,0.761,(0.5224)+(-0.0102)Thr+(-0.0141)Ala+(0.0063)Pro+(0.0063)Orn+(0.0395)Ile;0.687,0.733,0.626,0.693,0.579,0.654,0.527,0.613,(-1.8953)+(0.0225)Ser+(0.0060)Pro+(-0.0835)Tyr+(-0.0214)Leu+(0.0783)Phe;0.687,0.732,0.720,0.693,0.778,0.814,0.602,0.722,(3.0010)+(-0.1125)Cit+(-0.0005)Arg+(-0.0006)Pro+(0.0547)Orn+(-0.0223)Lys;0.687,0.728,0.772,0.785,0.752,0.808,0.753,0.774,(1.8463)+(-0.0099)Ala+(-0.0775)Cit+(-0.0060)Arg+(-0.0070)Leu+(0.0577)Phe;0.687,0.725,0.755,0.770,0.716,0.775,0.785,0.761,(5.4276)+(-0.1201)Asn+(-0.0051)Arg+(0.0075)Pro+(-0.0402)Val+(0.0513)Leu;0.687,0.735,0.751,0.753,0.698,0.842,0.791,0.771,(2.7727)+(-0.0074)Ala+(-0.0321)Val+(0.0345)Orn+(-0.0145)Lys+(0.0475)Leu;0.687,0.725,0.721,0.721,0.726,0.798,0.659,0.726,(1.6942)+(0.0368)Ser+(-0.0067)Gly+(-0.0650)Cit+(-0.0051)Val+(-0.0164)Lys;0.687,0.728,0.726,0.758,0.726,0.757,0.622,0.716,(2.8050)+(-0.0018)Gly+(0.0156)Thr+(-0.0186)Tyr+(-0.2414)Met+(0.0183)Orn;0.687,0.737,0.751,0.761,0.698,0.843,0.769,0.768,(0.9215)+(0.0383)Ser+(-0.0080)Gly+(-0.0000)Gln+(-0.0068)Ala+(-0.0160)Lys;0.687,0.731,0.804,0.841,0.770,0.831,0.760,0.801,(2.0172)+(0.0047)Gln+(-0.0039)Ala+(-0.0023)Tyr+(-0.1859)Met+(-0.0032)Lys;0.687,0.729,0.754,0.766,0.712,0.774,0.797,0.762,(5.3129)+(-0.1268)Asn+(0.0073)Pro+(-0.0409)Val+(0.0000)Lys+(0.0523)Leu;0.687,0.737,0.731,0.777,0.678,0.741,0.713,0.727,(1.8353)+(-0.0577)Tyr+(-0.0241)Val+(-0.0109)Lys+(0.0252)Leu+(0.0729)Phe;0.687,0.732,0.710,0.685,0.772,0.811,0.578,0.711,(2.7942)+(0.0014)Gly+(-0.0011)Thr+(-0.1144)Cit+(0.0545)Orn+(-0.0223)Lys;0.687,0.731,0.766,0.796,0.764,0.797

,0.668,0.756,(1.6565)+(0.0044)Gln+(-0.0176)Arg+(-0.2252)Met+(0.0222)Orn+(-0.0018)Leu;0.687,0.730,0.684,0.719,0.659,0.701,0.629,0.677,(1.3281)+(0.0030)Pro+(-0.0711)Tyr+(0.0236)Orn+(-0.0202)Lys+(0.0595)Phe;0.687,0.727,0.772,0.783,0.792,0.774,0.701,0.763,(4.8504)+(-0.0362)Asn+(-0.0603)Cit+(-0.1438)Met+(-0.0010)Lys+(0.0040)Leu;0.687,0.733,0.783,0.812,0.788,0.793,0.689,0.770,(2.2388)+(0.0063)Gln+(-0.0700)Cit+(-0.0038)Arg+(-0.0051)Tyr+(-0.2007)Met;0.687,0.732,0.658,0.654,0.587,0.784,0.726,0.688,(-1.1884)+(0.0287)Ser+(-0.0044)Gln+(-0.0138)Ala+(0.0096)Pro+(0.0346)Phe;0.687,0.730,0.731,0.735,0.759,0.808,0.604,0.727,(2.5013)+(0.0006)Gln+(-0.0897)Cit+(-0.0161)Arg+(-0.0153)Val+(0.0504)Orn;0.687,0.731,0.747,0.820,0.701,0.739,0.656,0.729,(0.8891)+(0.0028)Gln+(-0.0223)Arg+(-0.0626)Tyr+(-0.0150)Val+(0.0826)Phe;0.687,0.733,0.763,0.786,0.740,0.806,0.718,0.763,(2.9496)+(-0.0050)Ala+(-0.0093)Tyr+(-0.1758)Met+(0.0261)Orn+(0.0026)Leu;0.687,0.731,0.730,0.764,0.735,0.745,0.620,0.716,(2.8777)+(-0.0012)Gly+(0.0197)Thr+(-0.0149)Tyr+(-0.2577)Met+(0.0043)Leu;0.687,0.742,0.680,0.718,0.679,0.783,0.506,0.672,(0.9511)+(0.0272)Ser+(-0.0217)Arg+(-0.0402)Tyr+(0.0262)Orn+(-0.0143)Lys;0.687,0.732,0.741,0.727,0.752,0.752,0.747,0.744,(3.2862)+(-0.0990)Asn+(-0.0743)Cit+(-0.0010)Arg+(-0.0017)Pro+(0.0310)Ile;0.687,0.731,0.733,0.772,0.748,0.767,0.570,0.715,(3.6376)+(0.0235)Thr+(-0.0156)Arg+(-0.0119)Tyr+(-0.2294)Met+(-0.0024)Lys;0.687,0.724,0.706,0.694,0.714,0.784,0.662,0.714,(1.8632)+(-0.0008)Gly+(-0.0977)Cit+(-0.0304)Val+(0.0492)Orn+(0.0282)Leu;0.687,0.736,0.702,0.735,0.679,0.714,0.653,0.696,(3.6228)+(-0.0945)Asn+(0.0157)Thr+(-0.0179)Arg+(-0.0576)Tyr+(0.0357)Ile;0.687,0.728,0.765,0.785,0.725,0.796,0.774,0.770,(5.1941)+(-0.1188)Asn+(0.0020)Gly+(-0.0044)Arg+(-0.0390)Val+(0.0553)Leu;0.687,0.727,0.676,0.670,0.704,0.786,0.558,0.679,(0.7237)+(0.0303)Ser+(0.0002)Gln+(-0.0815)Cit+(0.0039)Pro+(-0.0209)Lys;0.687,0.736,0.641,0.610,0.713,0.761,0.486,0.6

43,(-0.2667)+(0.0262)Ser+(-0.0024)Gln+(-0.0932)Cit+(-0.0209)Arg+(0.03
16)Orn;0.687,0.735,0.759,0.753,0.777,0.757,0.742,0.757,(3.2775)+(-0.0
928)Asn+(-0.0753)Cit+(0.0062)Arg+(-0.0124)Lys+(0.0526)Phe;0.687,0.730
,0.756,0.788,0.741,0.787,0.678,0.749,(1.9236)+(0.0037)Gln+(-0.0126)Ty
r+(-0.2007)Met+(0.0241)Orn+(-0.0079)Lys;0.687,0.727,0.771,0.790,0.746
,0.801,0.755,0.773,(2.0111)+(-0.0086)Ala+(-0.0685)Cit+(-0.0072)Arg+(-
0.0094)Val+(0.0649)Phe;0.687,0.727,0.762,0.792,0.768,0.797,0.646,0.75
1,(5.4032)+(-0.1170)Asn+(0.0022)Gly+(0.0139)Thr+(-0.0622)Cit+(-0.0107
)Val;0.687,0.725,0.744,0.767,0.741,0.774,0.671,0.738,(3.2868)+(-0.000
9)Gly+(-0.0152)Tyr+(-0.1752)Met+(0.0293)Orn+(-0.0069)Lys;0.687,0.740,
0.709,0.723,0.674,0.831,0.658,0.721,(0.6995)+(0.0279)Ser+(-0.0017)Gln
+(-0.0076)Ala+(0.0235)Orn+(-0.0178)Lys;0.687,0.732,0.720,0.693,0.778,
0.813,0.603,0.722,(2.9976)+(-0.0002)Thr+(-0.1129)Cit+(-0.0006)Pro+(0.
0549)Orn+(-0.0223)Lys;0.687,0.732,0.737,0.796,0.688,0.732,0.684,0.725
,(1.0552)+(0.0017)Gln+(-0.0625)Tyr+(-0.0125)Val+(-0.0107)Lys+(0.0813)
Phe;0.687,0.734,0.757,0.793,0.760,0.777,0.645,0.744,(4.9487)+(-0.0808
)Asn+(0.0030)Gly+(-0.0664)Cit+(-0.0266)Tyr+(-0.0008)Leu;0.687,0.726,0
.769,0.781,0.788,0.768,0.703,0.760,(4.7020)+(-0.0405)Asn+(-0.0649)Cit
+(0.0057)Arg+(-0.1512)Met+(0.0037)Leu;0.687,0.724,0.725,0.723,0.745,0
.797,0.638,0.726,(2.3983)+(0.0001)Gly+(-0.0078)Thr+(-0.1015)Cit+(-0.0
147)Val+(0.0532)Orn;0.687,0.732,0.739,0.765,0.732,0.751,0.678,0.731,(
3.3329)+(0.0004)Gly+(0.0090)Pro+(-0.0145)Tyr+(-0.2061)Met+(-0.0026)Ly
s;0.687,0.730,0.760,0.783,0.717,0.805,0.759,0.766,(1.2141)+(-0.0079)A
la+(-0.0130)Val+(0.0293)Orn+(-0.0136)Lys+(0.0559)Phe;0.687,0.726,0.71
1,0.760,0.628,0.743,0.733,0.716,(0.8258)+(0.0003)Gln+(-0.0109)Ala+(0.
0106)Pro+(-0.0624)Tyr+(0.0573)Phe;0.687,0.725,0.749,0.752,0.708,0.813
,0.781,0.764,(3.4886)+(-0.0112)Ala+(-0.0713)Cit+(0.0126)Pro+(-0.0227)
Val+(0.0327)Leu;0.687,0.732,0.766,0.813,0.737,0.774,0.696,0.755,(3.05

07)+(-0.1178)Asn+(0.0045)Gln+(-0.0414)Tyr+(0.0262)Orn+(-0.0101)Leu;0.687,0.731,0.652,0.671,0.613,0.702,0.648,0.659,(0.6280)+(0.0389)Ser+(-0.0103)Gly+(-0.0018)Gln+(0.0065)Pro+(-0.0686)Tyr;0.686,0.736,0.831,0.869,0.785,0.860,0.806,0.830,(3.4364)+(-0.1160)Asn+(0.0057)Gln+(-0.0040)Ala+(-0.0099)Val+(-0.0006)Lys;0.686,0.731,0.813,0.865,0.775,0.828,0.742,0.803,(3.6242)+(-0.1079)Asn+(0.0070)Gln+(-0.0129)Arg+(-0.0230)Tyr+(-0.0103)Val;0.686,0.728,0.749,0.764,0.775,0.778,0.637,0.738,(3.8626)+(0.0030)Gly+(-0.0678)Cit+(-0.1841)Met+(-0.0033)Lys+(0.0078)Leu;0.686,0.727,0.792,0.822,0.772,0.810,0.742,0.786,(4.2914)+(-0.0461)Asn+(0.0012)Gly+(-0.0037)Ala+(-0.0045)Tyr+(-0.1163)Met;0.686,0.734,0.797,0.816,0.796,0.823,0.731,0.791,(4.8367)+(-0.0042)Ala+(-0.0621)Cit+(-0.0022)Val+(-0.1297)Met+(0.0014)Lys;0.686,0.728,0.713,0.703,0.726,0.793,0.652,0.718,(0.9853)+(0.0370)Ser+(-0.0064)Gly+(0.0010)Gln+(-0.0736)Cit+(-0.0204)Lys;0.686,0.726,0.774,0.786,0.791,0.775,0.703,0.764,(4.9338)+(-0.0421)Asn+(-0.0637)Cit+(0.0058)Arg+(-0.1371)Met+(-0.0007)Lys;0.686,0.722,0.698,0.745,0.684,0.685,0.608,0.681,(1.6097)+(-0.0722)Cit+(0.0066)Pro+(-0.0740)Tyr+(-0.0184)Leu+(0.0815)Phe;0.686,0.727,0.723,0.747,0.633,0.791,0.798,0.742,(1.2819)+(0.0007)Gln+(-0.0005)Thr+(-0.0106)Ala+(-0.0467)Tyr+(0.0515)Ile;0.686,0.734,0.753,0.797,0.715,0.866,0.639,0.754,(1.0764)+(0.0258)Ser+(-0.0000)Gln+(-0.0062)Ala+(-0.0229)Arg+(-0.0076)Val;0.686,0.727,0.795,0.817,0.748,0.831,0.808,0.801,(2.8963)+(-0.1103)Asn+(0.0042)Gln+(-0.0089)Ala+(0.0102)Pro+(-0.0068)Leu;0.686,0.735,0.724,0.763,0.694,0.797,0.631,0.721,(3.1811)+(-0.0222)Arg+(-0.0404)Tyr+(-0.0307)Val+(0.0372)Orn+(0.0347)Leu;0.686,0.730,0.764,0.782,0.721,0.795,0.786,0.771,(5.1187)+(-0.1237)Asn+(0.0019)Gly+(-0.0396)Val+(-0.0003)Lys+(0.0562)Leu;0.686,0.729,0.771,0.787,0.788,0.770,0.696,0.760,(4.9690)+(-0.0385)Asn+(-0.0596)Cit+(-0.0083)Tyr+(-0.1303)Met+(0.0037)Leu;0.686,0.727,0.812,0.855,0.758,0.827,0.799,0.810,(3.0615)+(

-0.1027)Asn+(-0.0010)Gly+(0.0058)Gln+(-0.0052)Ala+(-0.0289)Tyr;0.686,0.725,0.757,0.800,0.724,0.768
,0.703,0.749,(5.3662)+(-0.0925)Asn+(0.0005)Gly+(0.0100)Pro+(-0.0296)Tyr+(-0.0130)Val;0.686,0.728,0.747,0.761,0.771,0.770,0.640,0.736,(3.5978)+(0.0030)Gly+(-0.0709)Cit+(0.0031)Arg+(-0.1987)Met+(0.0063)Leu;0.686,0.725,0.700,0.689,0.711,0.784,0.646,0.708,(1.7026)+(-0.0984)Cit+(0.0009)Pro+(-0.0303)Val+(0.0483)Orn+(0.0279)Leu;0.686,0.728,0.745,0.768,0.749,0.782,0.647,0.736,(3.4436)+(-0.0116)Arg+(-0.0144)Tyr+(-0.1677)Met+(0.0309)Orn+(-0.0050)Lys;0.686,0.730,0.774,0.809,0.769,0.802,0.671,0.763,(5.6074)+(-0.0816)Asn+(0.0026)Gly+(-0.0584)Cit+(-0.0172)Tyr+(-0.0071)Val;0.686,0.727,0.722,0.724,0.752,0.804,0.597,0.719,(2.6631)+(-0.0879)Cit+(-0.0160)Arg+(0.0027)Pro+(-0.0161)Val+(0.0497)Orn;0.686,0.733,0.794,0.810,0.792,0.822,0.736,0.790,(4.7169)+(-0.0047)Ala+(-0.0680)Cit+(0.0047)Arg+(-0.1313)Met+(-0.0006)Lys;0.686,0.732,0.597,0.620,0.546,0.686,0.575,0.607,(-1.7408)+(0.0231)Ser+(0.0001)Pro+(-0.0737)Tyr+(-0.0009)Orn+(0.0364)Ile;0.686,0.728,0.696,0.736,0.668,0.710,0.635,0.687,(0.9939)+(0.0010)Gln+(-0.0691)Tyr+(0.0238)Orn+(-0.0205)Lys+(0.0607)Phe;0.686,0.735,0.621,0.666,0.568,0.657,0.589,0.620,(-2.5534)+(0.0317)Ser+(-0.0155)Thr+(0.0049)Pro+(-0.0759)Tyr+(0.0558)Phe;0.686,0.732,0.751,0.766,0.761,0.787,0.661,0.744,(3.2306)+(-0.0113)Arg+(-0.1921)Met+(0.0290)Orn+(-0.0053)Lys+(0.0002)Leu;0.686,0.729,0.757,0.777,0.758,0.786,0.680,0.750,(5.6146)+(-0.1182)Asn+(0.0129)Thr+(-0.0577)Cit+(0.0071)Pro+(-0.0140)Val;0.686,0.735,0.764,0.790,0.753,0.809,0.687,0.760,(4.7907)+(-0.1245)Asn+(0.0089)Thr+(-0.0165)Val+(0.0344)Orn+(-0.0036)Lys;0.686,0.734,0.712,0.770,0.675,0.719,0.627,0.698,(1.4475)+(0.0113)Thr+(-0.0685)Tyr+(-0.0132)Val+(-0.0135)Lys+(0.0868)Phe;0.686,0.733,0.810,0.851,0.775,0.837,0.758,0.805,(2.2068)+(0.0046)Gln+(-0.0031)Ala+(0.0000)Tyr+(-0.0052)Val+(-0.1875)Met;0.686,0.731,0.667,0.691,0.630

,0.700,0.659,0.670,(1.3064)+(0.0084)Thr+(-0.0737)Tyr+(-0.0244)Lys+(0.0380)Ile+(0.0495)Phe;0.686,0.739,0.669,0.681,0.657,0.765,0.596,0.675,(-1.5584)+(0.0272)Ser+(-0.0150)Val+(0.0203)Orn+(-0.0232)Lys+(0.0542)Phe;0.686,0.727,0.691,0.753,0.626,0.683,0.669,0.683,(1.1016)+(0.0062)Pro+(-0.0705)Tyr+(-0.0249)Val+(0.0174)Leu+(0.0684)Phe;0.686,0.729,0.772,0.780,0.748,0.796,0.784,0.777,(5.8439)+(-0.1067)Asn+(-0.0447)Cit+(-0.0343)Val+(-0.0006)Lys+(0.0498)Leu;0.686,0.727,0.728,0.765,0.679,0.728,0.733,0.726,(2.0392)+(-0.1168)Asn+(0.0041)Gln+(-0.0555)Tyr+(0.0127)Orn+(0.0289)Ile;0.686,0.733,0.764,0.811,0.743,0.789,0.664,0.752,(5.4376)+(-0.1124)Asn+(0.0165)Thr+(-0.0289)Tyr+(-0.0111)Val+(-0.0005)Lys;0.686,0.723,0.758,0.760,0.740,0.819,0.749,0.767,(3.2752)+(0.0017)Thr+(-0.0124)Ala+(-0.0851)Cit+(0.0123)Pro+(-0.0014)Leu;0.686,0.725,0.765,0.793,0.752,0.785,0.708,0.759,(1.4366)+(-0.0013)Gly+(0.0036)Gln+(-0.2453)Met+(0.0185)Orn+(-0.0012)Leu;0.686,0.733,0.756,0.790,0.747,0.769,0.678,0.746,(4.0374)+(-0.0108)Arg+(0.0116)Pro+(-0.0114)Val+(-0.2077)Met+(0.0052)Lys;0.686,0.733,0.799,0.816,0.799,0.826,0.734,0.794,(4.8822)+(-0.0043)Ala+(-0.0623)Cit+(0.0025)Tyr+(-0.0019)Val+(-0.1284)Met;0.686,0.729,0.717,0.745,0.685,0.714,0.711,0.714,(3.5185)+(-0.0769)Asn+(-0.0116)Arg+(0.0021)Pro+(-0.0514)Tyr+(0.0344)Ile;0.686,0.732,0.681,0.702,0.661,0.717,0.637,0.680,(1.3922)+(0.0020)Gln+(0.0012)Thr+(-0.0837)Cit+(-0.0657)Tyr+(0.0387)Ile;0.685,0.733,0.795,0.812,0.793,0.823,0.734,0.791,(4.7964)+(-0.0043)Ala+(-0.0657)Cit+(0.0040)Arg+(-0.0017)Val+(-0.1298)Met;0.685,0.730,0.656,0.700,0.643,0.743,0.503,0.647,(0.1142)+(0.0302)Ser+(-0.0061)Thr+(-0.0249)Arg+(0.0073)Pro+(-0.0511)Tyr;0.685,0.730,0.788,0.811,0.787,0.813,0.713,0.781,(2.7033)+(-0.1169)Asn+(0.0024)Gly+(0.0073)Gln+(-0.0826)Cit+(-0.0084)Lys;0.685,0.722,0.684,0.686,0.697,0.795,0.570,0.687,(1.2027)+(0.0286)Ser+(-0.0741)Cit+(0.0058)Pro+(-0.0066)Val+(-0.0172)Lys;0.685,0.730,0.709,0.766,0.660,0.704,0.664

,0.699,(1.6486)+(0.0070)Pro+(-0.0664)Tyr+(-0.0142)Val+(-0.0097)Lys+(0.0792)Phe;0.685,0.727,0.748,0.769,0.759,0.777,0.651,0.739,(3.0661)+(-0.0000)Gly+(-0.0135)Arg+(-0.2024)Met+(0.0272)Orn+(-0.0023)Leu;0.685,0.736,0.659,0.703,0.663,0.762,0.463,0.648,(0.6224)+(0.0266)Ser+(-0.0013)Gln+(-0.0275)Arg+(-0.0512)Tyr+(0.0208)Orn;0.685,0.730,0.805,0.846,0.776,0.828,0.741,0.798,(2.0540)+(0.0054)Gln+(-0.0038)Ala+(-0.0129)Arg+(-0.0027)Tyr+(-0.1810)Met;0.685,0.732,0.757,0.752,0.776,0.755,0.733,0.754,(3.3002)+(-0.0899)Asn+(-0.0705)Cit+(0.0017)Pro+(-0.0114)Lys+(0.0501)Phe;0.685,0.730,0.686,0.709,0.644,0.705,0.701,0.690,(1.4535)+(-0.0001)Pro+(-0.0674)Tyr+(-0.0213)Lys+(0.0385)Ile+(0.0468)Phe;0.685,0.726,0.746,0.784,0.727,0.751,0.680,0.736,(4.3479)+(-0.0934)Asn+(-0.0006)Gly+(-0.0407)Tyr+(0.0318)Orn+(-0.0098)Leu;0.685,0.734,0.668,0.719,0.659,0.769,0.477,0.656,(0.7582)+(0.0270)Ser+(-0.0275)Arg+(0.0082)Pro+(-0.0503)Tyr+(-0.0082)Leu;0.685,0.732,0.814,0.859,0.783,0.842,0.736,0.805,(2.3846)+(0.0055)Gln+(-0.0029)Ala+(-0.0127)Arg+(-0.0051)Val+(-0.1729)Met;0.685,0.732,0.683,0.704,0.664,0.719,0.640,0.682,(1.3626)+(0.0002)Gly+(0.0021)Gln+(-0.0837)Cit+(-0.0647)Tyr+(0.0389)Ile;0.685,0.729,0.749,0.812,0.678,0.755,0.724,0.742,(0.5530)+(0.0012)Gln+(-0.0072)Ala+(-0.0589)Tyr+(-0.0120)Leu+(0.0766)Phe;0.685,0.732,0.746,0.784,0.740,0.765,0.643,0.733,(4.5893)+(-0.0813)Asn+(-0.0141)Arg+(-0.0382)Tyr+(0.0352)Orn+(-0.0098)Leu;0.685,0.733,0.739,0.771,0.664,0.829,0.747,0.753,(2.5698)+(-0.0068)Ala+(-0.0339)Tyr+(-0.0301)Val+(0.0312)Orn+(0.0404)Leu;0.685,0.728,0.788,0.810,0.794,0.794,0.711,0.777,(5.4935)+(-0.0520)Asn+(-0.0533)Cit+(-0.0069)Val+(-0.1146)Met+(0.0044)Lys;0.685,0.728,0.803,0.839,0.767,0.823,0.770,0.800,(1.9581)+(-0.0010)Gly+(0.0047)Gln+(-0.0040)Ala+(-0.0042)Tyr+(-0.1925)Met;0.685,0.731,0.723,0.718,0.636,0.803,0.860,0.754,(-0.0446)+(-0.0007)Gly+(-0.0149)Ala+(0.0054)Pro+(0.0375)Ile+(0.0064)Phe;0.685,0.731,0.770,0.794,0.722,0.786,0.794,0.774

,(5.5821)+(-0.1108)Asn+(-0.0182)Tyr+(-0.0369)Val+(0.0010)Lys+(0.0537)Leu;0.685,0.725,0.754,0.804,0.699,0.764,0.728,0.749,(1.6218)+(-0.0004)Gly+(-0.0075)Ala+(-0.0170)Arg+(-0.0534)Tyr+(0.0695)Phe;0.685,0.730,0.693,0.718,0.657,0.717,0.686,0.694,(1.7268)+(-0.0126)Arg+(-0.0648)Tyr+(-0.0178)Lys+(0.0377)Ile+(0.0479)Phe;0.685,0.728,0.766,0.788,0.766,0.781,0.698,0.758,(2.1450)+(-0.1374)Asn+(0.0032)Gly+(0.0065)Gln+(-0.0856)Cit+(0.0022)Pro;0.685,0.727,0.753,0.777,0.749,0.792,0.666,0.746,(5.2126)+(-0.1010)Asn+(0.0035)Gly+(-0.0604)Cit+(0.0082)Pro+(-0.0123)Val;0.685,0.726,0.756,0.776,0.778,0.782,0.637,0.743,(4.0073)+(0.0026)Gly+(-0.0683)Cit+(0.0034)Arg+(-0.1752)Met+(-0.0015)Lys;0.685,0.729,0.721,0.756,0.709,0.732,0.643,0.710,(4.0771)+(-0.0841)Asn+(-0.0145)Arg+(0.0049)Pro+(-0.0493)Tyr+(0.0281)Orn;0.685,0.734,0.724,0.763,0.742,0.753,0.566,0.706,(3.2998)+(0.0236)Thr+(-0.0167)Arg+(-0.0138)Tyr+(-0.2476)Met+(0.0046)Leu;0.685,0.736,0.719,0.749,0.713,0.827,0.575,0.716,(0.4291)+(0.0261)Ser+(-0.0105)Thr+(-0.0273)Arg+(-0.0143)Val+(0.0285)Orn;0.685,0.733,0.756,0.788,0.747,0.780,0.674,0.747,(4.1119)+(0.0007)Gly+(-0.0086)Arg+(0.0113)Pro+(-0.0100)Val+(-0.1958)Met;0.685,0.732,0.714,0.780,0.671,0.705,0.639,0.698,(1.8666)+(-0.0203)Arg+(0.0080)Pro+(-0.0662)Tyr+(-0.0165)Val+(0.0810)Phe;0.685,0.731,0.739,0.770,0.732,0.757,0.655,0.729,(4.3954)+(-0.0750)Asn+(-0.0111)Arg+(-0.0397)Tyr+(0.0340)Orn+(-0.0069)Lys;0.685,0.728,0.796,0.816,0.778,0.811,0.772,0.794,(4.1346)+(-0.0384)Asn+(-0.0043)Ala+(-0.1349)Met+(-0.0013)Lys+(0.0059)Leu;0.685,0.728,0.760,0.807,0.739,0.767,0.675,0.747,(2.7567)+(-0.1055)Asn+(0.0054)Gln+(-0.0183)Arg+(-0.0447)Tyr+(0.0252)Orn;0.685,0.722,0.769,0.780,0.746,0.826,0.743,0.774,(3.9519)+(-0.0107)Ala+(-0.0721)Cit+(-0.0044)Arg+(0.0134)Pro+(-0.0065)Val;0.685,0.729,0.702,0.766,0.640,0.700,0.663,0.692,(0.9222)+(0.0043)Thr+(-0.0695)Tyr+(-0.0255)Val+(0.0205)Leu+(0.0722)Phe;0.685,0.727,0.784,0.812,0.781,0.797,0.706,0.774,(2.6081)+

(-0.1302)Asn+(0.0024)Gly+(0.0069)Gln+(-0.0812)Cit+(-0.0063)Leu;0.685,0.727,0.748,0.764,0.773,0.769,0.636,0.735,(3.7399)+(0.0029)Gly+(-0.0679)Cit+(-0.0024)Tyr+(-0.1896)Met+(0.0062)Leu;0.685,0.731,0.710,0.740,0.703,0.718,0.641,0.700,(2.3352)+(-0.0719)Cit+(0.0051)Pro+(-0.0655)Tyr+(-0.0145)Lys+(0.0738)Phe;0.685,0.729,0.807,0.840,0.773,0.835,0.770,0.804,(2.7111)+(-0.1169)Asn+(0.0053)Gln+(0.0108)Thr+(-0.0068)Ala+(-0.0167)Arg;0.685,0.729,0.808,0.853,0.756,0.828,0.787,0.806,(3.0131)+(-0.1043)Asn+(0.0056)Gln+(-0.0051)Ala+(-0.0277)Tyr+(-0.0008)Leu;0.685,0.724,0.727,0.725,0.746,0.798,0.640,0.728,(2.3130)+(0.0003)Gln+(-0.0080)Thr+(-0.1015)Cit+(-0.0147)Val+(0.0529)Orn;0.685,0.731,0.715,0.777,0.651,0.708,0.691,0.707,(1.0639)+(0.0001)Gln+(-0.0658)Tyr+(-0.0249)Val+(0.0202)Leu+(0.0715)Phe;0.685,0.731,0.740,0.769,0.736,0.751,0.664,0.730,(3.4716)+(0.0007)Gly+(-0.0092)Arg+(0.0091)Pro+(-0.0146)Tyr+(-0.2018)Met;0.685,0.728,0.723,0.718,0.635,0.805,0.859,0.754,(0.1655)+(-0.0007)Gly+(-0.0148)Ala+(0.0055)Pro+(0.0007)Orn+(0.0387)Ile;0.685,0.725,0.701,0.727,0.667,0.713,0.696,0.701,(3.0028)+(-0.0971)Asn+(0.0007)Gly+(-0.0547)Tyr+(0.0170)Orn+(0.0306)Ile;0.685,0.731,0.665,0.684,0.654,0.706,0.611,0.664,(1.9483)+(0.0008)Gly+(0.0029)Thr+(-0.0814)Cit+(-0.0641)Tyr+(0.0400)Ile;0.685,0.730,0.719,0.752,0.722,0.756,0.600,0.707,(2.4945)+(0.0148)Thr+(-0.0163)Tyr+(-0.2493)Met+(0.0168)Orn+(0.0014)Leu;0.685,0.728,0.780,0.816,0.749,0.802,0.736,0.776,(3.6249)+(-0.1498)Asn+(0.0047)Gln+(0.0089)Thr+(0.0067)Pro+(-0.0171)Val;0.685,0.730,0.795,0.829,0.757,0.819,0.764,0.792,(1.6618)+(0.0044)Gln+(-0.0046)Ala+(-0.0035)Tyr+(-0.2064)Met+(0.0065)Leu;0.685,0.727,0.798,0.817,0.758,0.834,0.803,0.803,(2.4310)+(-0.1183)Asn+(-0.0000)Gly+(0.0040)Gln+(-0.0076)Ala+(0.0201)Orn;0.685,0.723,0.758,0.761,0.743,0.818,0.741,0.766,(3.3248)+(0.0032)Thr+(-0.0124)Ala+(-0.0816)Cit+(-0.0053)Arg+(0.0120)Pro;0.685,0.727,0.783,0.796,0.747,0.824,0.793,0.790,(4.2968)+(-0.0732)Asn+(-0.

0092)Ala+(-0.0072)Arg+(0.0110)Pro+(-0.0039)Lys;0.684,0.726,0.708,0.75
7,0.688,0.775,0.572,0.698,(3.4264)+(-0.0236)Arg+(0.0078)Pro+(-0.0463)
Tyr+(-0.0149)Val+(0.0347)Orn;0.684,0.735,0.676,0.701,0.661,0.688,0.63
4,0.671,(1.3549)+(-0.0727)Cit+(-0.0089)Arg+(-0.0735)Tyr+(0.0316)Ile+(
0.0462)Phe;0.684,0.731,0.803,0.839,0.774,0.817,0.758,0.797,(3.6172)+(
-0.1478)Asn+(-0.0010)Gly+(0.0053)Gln+(0.0109)Thr+(-0.0147)Val;0.684,0
.729,0.743,0.762,0.742,0.755,0.683,0.735,(3.0345)+(0.0009)Gly+(0.0081
)Pro+(-0.2293)Met+(-0.0034)Lys+(0.0008)Leu;0.684,0.727,0.761,0.770,0.
744,0.806,0.743,0.766,(1.6437)+(0.0050)Thr+(-0.0111)Ala+(-0.0811)Cit+
(-0.0079)Arg+(0.0492)Phe;0.684,0.737,0.730,0.757,0.687,0.851,0.659,0.
739,(0.7773)+(0.0236)Ser+(-0.
0068)Ala+(-0.0069)Val+(0.0263)Orn+(-0.0156)Lys;0.684,0.736,0.716,0.75
0,0.629,0.843,0.717,0.735,(0.8158)+(0.0217)Ser+(-0.0068)Ala+(-0.0297)
Tyr+(-0.0268)Val+(0.0416)Leu;0.684,0.732,0.698,0.726,0.705,0.816,0.52
5,0.693,(1.0370)+(0.0240)Ser+(-0.0018)Gln+(-0.0302)Arg+(-0.0155)Val+(
0.0268)Orn;0.684,0.729,0.769,0.794,0.725,0.787,0.783,0.772,(5.6521)+(
-0.1058)Asn+(-0.0027)Arg+(-0.0171)Tyr+(-0.0363)Val+(0.0532)Leu;0.684,
0.727,0.708,0.779,0.657,0.687,0.643,0.691,(0.8186)+(0.0000)Gln+(0.004
0)Thr+(-0.0705)Tyr+(-0.0159)Val+(0.0811)Phe;0.684,0.726,0.775,0.793,0
.790,0.775,0.695,0.763,(5.1176)+(-0.0409)Asn+(-0.0588)Cit+(-0.0078)Ty
r+(-0.1214)Met+(0.0006)Lys;0.684,0.737,0.636,0.681,0.584,0.675,0.595,
0.634,(-2.5404)+(0.0305)Ser+(-0.0158)Thr+(-0.0729)Tyr+(0.0111)Orn+(0.
0556)Phe;0.684,0.739,0.750,0.783,0.701,0.856,0.686,0.756,(0.1578)+(0.
0295)Ser+(-0.0069)Thr+(-0.0075)Ala+(-0.0209)Arg+(-0.0001)Leu;0.684,0.
724,0.764,0.766,0.747,0.819,0.752,0.771,(3.4946)+(-0.0120)Ala+(-0.080
2)Cit+(-0.0037)Arg+(0.0124)Pro+(-0.0014)Leu;0.684,0.726,0.694,0.705,0
.602,0.833,0.756,0.724,(0.0428)+(0.0210)Ser+(-0.0110)Ala+(0.0108)Pro+
(-0.0296)Val+(0.0374)Leu;0.684,0.727,0.743,0.769,0.747,0.766,0.649,0.

733,(3.2763)+(-0.0005)Gly+(-0.0133)Arg+(-0.0157)Tyr+(-0.1803)Met+(0.0285)Orn;0.684,0.726,0.740,0.762,0.739,0.772,0.662,0.734,(3.1037)+(-0.0141)Tyr+(-0.1820)Met+(0.0280)Orn+(-0.0074)Lys+(0.0022)Leu;0.684,0.728,0.788,0.810,0.796,0.799,0.708,0.778,(5.6736)+(-0.0474)Asn+(-0.0534)Cit+(-0.0035)Tyr+(-0.0055)Val+(-0.0985)Met;0.684,0.727,0.718,0.738,0.632,0.787,0.791,0.737,(1.4243)+(-0.0016)Thr+(-0.0106)Ala+(-0.0473)Tyr+(0.0099)Orn+(0.0487)Ile;0.684,0.723,0.731,0.777,0.660,0.749,0.741,0.732,(1.0237)+(-0.0023)Gly+(-0.0086)Ala+(-0.0621)Tyr+(0.0187)Orn+(0.0583)Phe;0.684,0.734,0.684,0.722,0.603,0.813,0.663,0.700,(0.1796)+(0.0207)Ser+(-0.0105)Ala+(0.0118)Pro+(-0.0471)Tyr+(0.0117)Orn;0.684,0.721,0.718,0.715,0.734,0.795,0.638,0.721,(2.3461)+(-0.0084)Thr+(-0.0999)Cit+(0.0027)Pro+(-0.0155)Val+(0.0518)Orn;0.684,0.735,0.738,0.766,0.672,0.816,0.743,0.749,(0.9198)+(0.0346)Ser+(-0.0089)Gly+(-0.0064)Ala+(-0.0425)Tyr+(0.0010)Leu;0.684,0.727,0.767,0.793,0.782,0.795,0.646,0.754,(4.2947)+(0.0022)Gly+(-0.0612)Cit+(-0.0044)Val+(-0.1660)Met+(0.0015)Lys;0.684,0.726,0.737,0.776,0.681,0.731,0.752,0.735,(1.9828)+(-0.1152)Asn+(0.0000)Gly+(0.0046)Gln+(-0.0534)Tyr+(0.0327)Ile;0.684,0.737,0.726,0.761,0.699,0.776,0.652,0.722,(1.4773)+(0.0397)Ser+(-0.0097)Gly+(-0.0233)Arg+(-0.0484)Tyr+(-0.0043)Leu;0.684,0.728,0.787,0.806,0.795,0.799,0.713,0.778,(5.5200)+(-0.0500)Asn+(-0.0577)Cit+(0.0053)Arg+(-0.0057)Val+(-0.1096)Met;0.684,0.734,0.728,0.709,0.780,0.822,0.604,0.729,(2.4402)+(0.0019)Gln+(-0.1143)Cit+(0.0535)Orn+(-0.0220)Lys+(-0.0050)Leu;0.684,0.726,0.711,0.740,0.681,0.721,0.690,0.708,(3.2510)+(-0.0805)Asn+(0.0017)Gly+(-0.0121)Arg+(-0.0484)Tyr+(0.0377)Ile;0.684,0.718,0.719,0.738,0.697,0.785,0.664,0.721,(1.0272)+(0.0362)Ser+(-0.0085)Gly+(-0.0295)Arg+(0.0066)Pro+(-0.0158)Val;0.684,0.730,0.732,0.772,0.725,0.728,0.644,0.717,(2.3278)+(-0.0695)Cit+(-0.0602)Tyr+(-0.0109)Lys+(-0.0095)Leu+(0.0853)Phe;0.684,0.739,0.686,0.739,0.687,0.789,0.471,0.671,(0.8

031)+(0.0237)Ser+(-0.0287)Arg+(-0.0472)Tyr+(0.0232)Orn+(-0.0079)Leu;0
.684,0.730,0.784,0.795,0.761,0.829,0.768,0.788,(4.0833)+(-0.0834)Asn+
(-0.0065)Ala+(0.0307)Orn+(-0.0078)Lys+(-0.0031)Leu;0.684,0.729,0.737,
0.733,0.766,0.720,0.698,0.729,(2.8023)+(-0.1298)Asn+(0.0097)Thr+(-0.0
769)Cit+(-0.0001)Pro+(0.0399)Phe;0.684,0.727,0.735,0.763,0.727,0.741,
0.672,0.726,(3.1637)+(0.0004)Gly+(0.0090)Pro+(-0.0153)Tyr+(-0.2142)Me
t+(-0.0007)Leu;0.684,0.729,0.683,0.705,0.690,0.756,0.557,0.677,(-1.55
12)+(0.0336)Ser+(-0.0258)Arg+(-0.0186)Lys+(-0.0117)Leu+(0.0545)Phe;0.
684,0.728,0.715,0.717,0.741,0.775,0.612,0.711,(1.2717)+(-0.0872)Cit+(
-0.0177)Arg+(-0.0195)Val+(0.0484)Orn+(0.0456)Phe;0.684,0.730,0.720,0.
717,0.631,0.805,0.856,0.752,(-0.1813)+(-0.0150)Ala+(0.0054)Pro+(-0.00
04)Orn+(0.0379)Ile+(0.0067)Phe;0.684,0.731,0.698,0.689,0.703,0.775,0.
653,0.705,(0.2930)+(0.0410)Ser+(-0.0086)Gly+(-0.0219)Arg+(0.0214)Orn+
(-0.0216)Lys;0.684,0.730,0.710,0.723,0.627,0.851,0.748,0.737,(-0.0269
)+(0.0184)Ser+(-0.0090)Ala+(-0.0323)Val+(0.0208)Orn+(0.0423)Leu;0.684
,0.729,0.754,0.769,0.707,0.844,0.747,0.767,(2.7526)+(-0.0074)Ala+(-0.
0213)Arg+(-0.0327)Val+(0.0350)Orn+(0.0413)Leu;0.684,0.728,0.767,0.792
,0.782,0.796,0.648,0.754,(4.3040)+(0.0022)Gly+(-0.0632)Cit+(0.0022)Ar
g+(-0.0040)Val+(-0.1642)Met;0.684,0.724,0.693,0.760,0.635,0.675,0.648
,0.680,(1.0188)+(-0.0000)Gln+(0.0068)Pro+(-0.0722)Tyr+(-0.0169)Val+(0
.0756)Phe;0.684,0.732,0.718,0.690,0.777,0.813,0.602,0.721,(2.9760)+(-
0.0003)Thr+(-0.1122)Cit+(-0.0005)Arg+(0.0544)Orn+(-0.0223)Lys;0.684,0
.727,0.753,0.810,0.687,0.751,0.739,0.747,(1.3413)+(-0.0017)Gly+(-0.00
69)Ala+(-0.0584)Tyr+(-0.0117)Leu+(0.0776)Phe;0.684,0.724,0.759,0.767,
0.779,0.772,0.687,0.751,(4.1641)+(-0.0667)Cit+(0.0054)Arg+(-0.1819)Me
t+(-0.0043)Lys+(0.0073)Leu;0.684,0.727,0.770,0.812,0.732,0.801,0.714,
0.765,(4.7090)+(-0.0978)Asn+(-0.0007)Gly+(0.0153)Thr+(-0.0055)Ala+(-0
.0329)Tyr;0.683,0.732,0.659,0.687,0.610,0.707,0.656,0.665,(-0.0168)+(

0.0357)Ser+(-0.0112)Gly+(0.0052)Pro+(-0.0745)Tyr+(0.0121)Orn;0.683,0.728,0.812,0.856,0.761,0.836,0.789,0.810,(3.1131)+(-0.0982)Asn+(0.0058)Gln+(-0.0049)Ala+(-0.0258)Tyr+(-0.0041)Lys;0.683,0.736,0.718,0.719,0.693,0.805,0.709,0.731,(0.8138)+(0.0362)Ser+(-0.0096)Gly+(-0.0110)Val+(0.0258)Orn+(-0.0198)Lys;0.683,0.728,0.662,0.657,0.634,0.794,0.641,0.681,(0.1682)+(0.0287)Ser+(0.0040)Pro+(-0.0310)Val+(-0.0218)Lys+(0.0435)Leu;0.683,0.734,0.796,0.812,0.797,0.819,0.734,0.790,(4.7574)+(-0.0047)Ala+(-0.0645)Cit+(0.0014)Tyr+(-0.1315)Met+(0.0003)Lys;0.683,0.733,0.756,0.790,0.743,0.774,0.681,0.747,(4.3473)+(-0.0082)Arg+(0.0116)Pro+(-0.0095)Tyr+(-0.0096)Val+(-0.1804)Met;0.683,0.730,0.722,0.751,0.706,0.735,0.670,0.715,(4.1770)+(-0.0838)Asn+(0.0049)Pro+(-0.0457)Tyr+(0.0296)Orn+(-0.0091)Lys;0.683,0.728,0.662,0.677,0.640,0.752,0.603,0.668,(-1.5430)+(0.0293)Ser+(0.0039)Pro+(-0.0145)Val+(-0.0218)Lys+(0.0541)Phe;0.683,0.727,0.763,0.787,0.766,0.779,0.683,0.754,(2.2920)+(-0.1466)Asn+(0.0027)Gly+(0.0064)Gln+(0.0063)Thr+(-0.0856)Cit;0.683,0.728,0.713,0.747,0.713,0.732,0.610,0.701,(2.0244)+(0.0022)Gly+(-0.0758)Cit+(-0.0590)Tyr+(-0.0144)Lys+(0.0777)Phe;0.683,0.724,0.740,0.734,0.660,0.815,0.869,0.769,(0.3982)+(0.0002)Gln+(-0.0091)Thr+(-0.0129)Ala+(0.0073)Orn+(0.0441)Ile;0.683,0.727,0.758,0.802,0.721,0.762,0.713,0.750,(5.3606)+(-0.0975)Asn+(0.0102)Pro+(-0.0315)Tyr+(-0.0140)Val+(0.0033)Lys;0.683,0.735,0.781,0.796,0.765,0.829,0.738,0.782,(3.8394)+(-0.0948)Asn+(0.0084)Thr+(-0.0075)Ala+(-0.0155)Arg+(0.0246)Orn;0.683,0.729,0.678,0.702,0.626,0.716,0.694,0.685,(-0.0087)+(0.0416)Ser+(-0.0099)Gly+(-0.0112)Thr+(0.0070)Pro+(-0.0619)Tyr;0.683,0.728,0.807,0.831,0.766,0.835,0.806,0.810,(2.6055)+(-0.1267)Asn+(-0.0004)Gly+(0.0046)Gln+(0.0079)Thr+(-0.0072)Ala;0.683,0.727,0.743,0.768,0.744,0.754,0.667,0.733,(3.2179)+(0.0011)Gly+(-0.0096)Arg+(0.0085)Pro+(-0.2232)Met+(-0.0011)Leu;0.683,0.722,0.769,0.792,0.770,0.770,0.703,0.759,(3.7622)+(-0.0439)Asn+(

0.0015)Gly+(-0.1640)Met+(-0.0014)Lys+(0.0025)Leu;0.683,0.731,0.761,0.813,0.749,0.794,0.627,0.746,(5.7291)+(-0.1027)Asn+(0.0196)Thr+(-0.0136)Arg+(-0.0287)Tyr+(-0.0110)Val;0.683,0.728,0.691,0.714,0.647,0.705,0.714,0.695,(1.6112)+(-0.0009)Gly+(-0.0679)Tyr+(-0.0210)Lys+(0.0381)Ile+(0.0468)Phe;0.683,0.726,0.683,0.679,0.714,0.792,0.552,0.684,(0.8848)+(0.0312)Ser+(-0.0756)Cit+(-0.0064)Arg+(-0.0193)Lys+(0.0038)Leu;0.683,0.723,0.782,0.808,0.780,0.789,0.712,0.772,(2.8726)+(-0.1402)Asn+(0.0068)Gln+(0.0078)Thr+(-0.0794)Cit+(-0.0079)Leu;0.683,0.735,0.682,0.703,0.641,0.797,0.629,0.692,(0.9770)+(0.0276)Ser+(-0.0304)Tyr+(-0.0273)Val+(-0.0172)Lys+(0.0444)Leu;0.683,0.730,0.743,0.770,0.739,0.751,0.676,0.734,(3.6370)+(-0.0085)Arg+(0.0091)Pro+(-0.0151)Tyr+(-0.1966)Met+(-0.0009)Lys;0.683,0.727,0.795,0.830,0.763,0.840,0.736,0.792,(5.0941)+(-0.1116)Asn+(-0.0000)Gly+(0.0141)Thr+(-0.0043)Ala+(-0.0107)Val;0.683,0.724,0.680,0.720,0.660,0.696,0.602,0.670,(1.2399)+(0.0059)Thr+(-0.0722)Tyr+(0.0228)Orn+(-0.0217)Lys+(0.0632)Phe;0.683,0.732,0.716,0.691,0.774,0.815,0.594,0.718,(2.2410)+(0.0007)Gly+(0.0018)Gln+(-0.1158)Cit+(0.0524)Orn+(-0.0239)Lys;0.683,0.727,0.773,0.790,0.786,0.775,0.700,0.763,(5.0540)+(-0.0438)Asn+(-0.0630)Cit+(0.0055)Arg+(-0.0079)Tyr+(-0.1240)Met;0.683,0.726,0.659,0.651,0.681,0.750,0.568,0.662,(-1.3874)+(0.0189)Ser+(-0.1050)Cit+(-0.0188)Val+(0.0389)Orn+(0.0444)Phe;0.683,0.725,0.728,0.757,0.675,0.800,0.710,0.735,(3.1322)+(-0.0093)Ala+(0.0111)Pro+(-0.0394)Tyr+(0.0266)Orn+(-0.0124)Lys;0.683,0.735,0.731,0.771,0.677,0.857,0.648,0.738,(1.1155)+(0.0269)Ser+(-0.0003)Gln+(-0.0057)Ala+(-0.0240)Tyr+(-0.0121)Lys;0.683,0.733,0.666,0.684,0.633,0.723,0.645,0.671,(0.6894)+(0.0374)Ser+(-0.0102)Gly+(-0.0022)Gln+(-0.0656)Tyr+(0.0175)Orn;0.683,0.728,0.675,0.671,0.699,0.792,0.551,0.678,(0.2641)+(0.0169)Ser+(-0.1034)Cit+(0.0020)Pro+(-0.0152)Val+(0.0410)Orn;0.683,0.727,0.697,0.699,0.720,0.797,0.570,0.696,(1.0087)+(0.0323)Ser+(-0.0052)Thr

+(-0.0730)Cit+(-0.0054)Arg+(-0.0159)Lys;0.683,0.720,0.771,0.798,0.773,0.773,0.691,0.759,(3.9438)+(-0.0430)Asn+(0.0015)Gly+(-0.0055)Arg+(-0.1553)Met+(0.0004)Lys;0.683,0.728,0.741,0.795,0.697,0.721,0.699,0.728,(1.9212)+(-0.0017)Gly+(-0.0618)Tyr+(-0.0127)Val+(-0.0086)Lys+(0.0827)Phe;0.683,0.723,0.781,0.801,0.749,0.828,0.758,0.784,(3.7780)+(-0.0977)Asn+(0.0006)Gly+(-0.0067)Ala+(0.0274)Orn+(-0.0067)Leu;0.683,0.734,0.672,0.639,0.724,0.764,0.587,0.678,(-0.7277)+(0.0303)Ser+(-0.0051)Gly+(-0.0874)Cit+(-0.0236)Arg+(0.0274)Orn;0.683,0.724,0.782,0.797,0.742,0.827,0.796,0.790,(4.3187)+(-0.0795)Asn+(-0.0090)Ala+(0.0113)Pro+(-0.0043)Lys+(-0.0035)Leu;0.683,0.725,0.805,0.840,0.782,0.820,0.752,0.798,(5.0519)+(-0.0517)Asn+(-0.0026)Ala+(-0.0024)Tyr+(-0.0062)Val+(-0.0947)Met;0.683,0.724,0.791,0.828,0.754,0.802,0.762,0.787,(3.4824)+(-0.1344)Asn+(-0.0001)Gly+(0.0052)Gln+(0.0072)Pro+(-0.0162)Val;0.683,0.723,0.679,0.700,0.657,0.798,0.587,0.685,(0.2606)+(0.0256)Ser+(-0.0298)Arg+(0.0055)Pro+(-0.0316)Val+(0.0324)Leu;0.683,0.736,0.740,0.783,0.687,0.865,0.646,0.745,(1.2778)+(0.0256)Ser+(-0.0053)Ala+(-0.0221)Tyr+(-0.0033)Val+(-0.0108)Lys;0.683,0.732,0.723,0.771,0.659,0.849,0.636,0.729,(0.9659)+(0.0179)Ser+(-0.0063)Ala+(-0.0341)Tyr+(-0.0087)Val+(0.0244)Orn;0.683,0.727,0.745,0.742,0.663,0.815,0.873,0.773,(0.1172)+(0.0002)Gln+(-0.0081)Thr+(-0.0132)Ala+
(0.0440)Ile+(0.0108)Phe;0.683,0.731,0.695,0.720,0.679,0.730,0.634,0.691,(1.4304)+(0.0031)Gln+(-0.0744)Cit+(-0.0118)Arg+(-0.0616)Tyr+(0.0387)Ile;0.683,0.727,0.734,0.773,0.680,0.727,0.749,0.732,(2.0047)+(-0.1152)Asn+(0.0046)Gln+(0.0009)Pro+(-0.0542)Tyr+(0.0317)Ile;0.683,0.725,0.800,0.825,0.762,0.835,0.789,0.803,(2.7231)+(-0.1176)Asn+(0.0041)Gln+(-0.0067)Ala+(0.0232)Orn+(-0.0073)Leu;0.683,0.727,0.768,0.792,0.785,0.797,0.646,0.755,(4.3457)+(0.0023)Gly+(-0.0614)Cit+(0.0013)Tyr+(-0.0040)Val+(-0.1631)Met;0.683,0.732,0.725,0.700,0.779,0.816,0.610,0.726,(

2.3135)+(0.0020)Gln+(-0.1153)Cit+(-0.0010)Pro+(0.0530)Orn+(-0.0237)Lys;0.683,0.732,0.684,0.705,0.664,0.721,0.645,0.684,(1.3865)+(0.0021)Gln+(-0.0834)Cit+(0.0003)Pro+(-0.0650)Tyr+(0.0384)Ile;0.683,0.730,0.789,0.803,0.788,0.801,0.745,0.784,(2.7733)+(-0.1143)Asn+(0.0075)Gln+(-0.0801)Cit+(0.0027)Pro+(-0.0095)Lys;0.683,0.728,0.729,0.787,0.664,0.707,0.727,0.722,(1.5827)+(-0.0023)Gly+(-0.0662)Tyr+(-0.0248)Val+(0.0204)Leu+(0.0714)Phe;0.683,0.728,0.739,0.802,0.672,0.750,0.702,0.731,(0.8159)+(0.0044)Thr+(-0.0074)Ala+(-0.0610)Tyr+(-0.0122)Leu+(0.0782)Phe;0.683,0.729,0.740,0.802,0.703,0.732,0.657,0.724,(1.9726)+(-0.0156)Arg+(-0.0581)Tyr+(-0.0134)Val+(-0.0045)Lys+(0.0850)Phe;0.682,0.735,0.760,0.792,0.764,0.784,0.646,0.747,(5.0468)+(-0.0762)Asn+(0.0030)Gly+(-0.0662)Cit+(-0.0248)Tyr+(-0.0028)Lys;0.682,0.729,0.794,0.814,0.756,0.831,0.795,0.799,(2.4684)+(-0.1251)Asn+(0.0038)Gln+(0.0043)Thr+(-0.0077)Ala+(0.0182)Orn;0.682,0.719,0.687,0.694,0.658,0.728,0.698,0.694,(2.5855)+(-0.0019)Gly+(-0.0570)Tyr+(0.0216)Orn+(-0.0213)Lys+(0.0408)Ile;0.682,0.722,0.704,0.716,0.722,0.805,0.561,0.701,(1.4914)+(0.0291)Ser+(-0.0659)Cit+(-0.0090)Arg+(-0.0049)Val+(-0.0138)Lys;0.682,0.733,0.716,0.690,0.770,0.800,0.614,0.719,(1.7864)+(-0.1140)Cit+(0.0541)Orn+(-0.0231)Lys+(-0.0124)Leu+(0.0470)Phe;0.682,0.728,0.762,0.765,0.732,0.807,0.786,0.772,(1.3607)+(-0.0009)Gly+(-0.0095)Ala+(0.0235)Orn+(-0.0184)Lys+(0.0401)Phe;0.682,0.729,0.719,0.785,0.668,0.683,0.674,0.702,(1.3815)+(-0.0034)Gly+(0.0070)Thr+(-0.0741)Tyr+(-0.0159)Val+(0.0814)Phe;0.682,0.721,0.769,0.799,0.764,0.768,0.700,0.758,(4.0629)+(-0.0473)Asn+(0.0012)Gly+(-0.0094)Tyr+(-0.1409)Met+(-0.0002)Lys;0.682,0.727,0.702,0.729,0.666,0.708,0.703,0.702,(3.1034)+(-0.0957)Asn+(0.0013)Pro+(-0.0563)Tyr+(0.0172)Orn+(0.0287)Ile;0.682,0.726,0.793,0.804,0.775,0.845,0.766,0.797,(2.5613)+(0.0045)Gln+(-0.0088)Ala+(-0.0859)Cit+(-0.0128)Lys+(0.0088)Leu;0.682,0.721,0.740,0.764,0.718,0.802,0.676,0.740,(1.1439)+(0.

0358)Ser+(-0.0085)Gly+(0.0002)Gln+(-0.0276)Arg+(-0.0132)Val;0.682,0.724,0.744,0.742,0.660,0.816,0.872,0.772,(0.3774)+(0.0003)Gly+(0.0003)Gln+(-0.0081)Thr+(-0.0129)Ala+(0.0467)Ile;0.682,0.722,0.742,0.766,0.713,0.800,0.694,0.743,(1.0889)+(0.0384)Ser+(-0.0083)Gly+(-0.0060)Thr+(-0.0245)Arg+(-0.0120)Val;0.682,0.726,0.790,0.825,0.777,0.793,0.720,0.779,(4.6720)+(-0.0621)Asn+(0.0012)Gly+(-0.0092)Val+(-0.1257)Met+(0.0050)Lys;0.682,0.726,0.797,0.830,0.772,0.847,0.727,0.794,(3.0275)+(0.0049)Gln+(-0.0066)Ala+(-0.0790)Cit+(-0.0225)Tyr+(-0.0083)Lys;0.682,0.727,0.785,0.820,0.776,0.794,0.704,0.774,(1.6849)+(0.0055)Gln+(-0.0125)Arg+(-0.2197)Met+(-0.0038)Lys+(0.0042)Leu;0.682,0.724,0.795,0.837,0.765,0.809,0.738,0.787,(3.5599)+(-0.1221)Asn+(0.0061)Gln+(-0.0146)Arg+(0.0074)Pro+(-0.0157)Val;0.682,0.737,0.736,0.775,0.681,0.857,0.661,0.743,(0.9708)+(0.0276)Ser+(-0.0028)Thr+(-0.0057)Ala+(-0.0227)Tyr+(-0.0115)Lys;0.682,0.733,0.740,0.774,0.701,0.849,0.654,0.745,(0.3905)+(0.0272)Ser+(-0.0005)Gln+(-0.0079)Ala+(-0.0237)Arg+(-0.0011)Leu;0.682,0.724,0.722,0.773,0.648,0.753,0.720,0.724,(0.5569)+(0.0000)Gln+(-0.0088)Ala+(-0.0608)Tyr+(0.0170)Orn+(0.0591)Phe;0.682,0.726,0.737,0.804,0.676,0.701,0.709,0.723,(1.0813)+(-0.0030)Gly+(0.0014)Gln+(-0.0698)Tyr+(-0.0153)Val+(0.0787)Phe;0.682,0.723,0.705,0.769,0.664,0.671,0.645,0.687,(0.9740)+(-0.0038)Gly+(-0.0786)Tyr+(0.0233)Orn+(-0.0225)Leu+(0.0736)Phe;0.682,0.727,0.763,0.775,0.724,0.806,0.780,0.771,(1.7347)+(-0.0114)Ala+(-0.0149)Arg+(0.0096)Pro+(-0.0120)Lys+(0.0433)Phe;0.682,0.726,0.742,0.770,0.746,0.770,0.637,0.731,(3.2813)+(-0.0136)Arg+(-0.0149)Tyr+(-0.1772)Met+(0.0291)Orn+(-0.0020)Leu;0.682,0.732,0.754,0.789,0.755,0.772,0.648,0.741,(4.8713)+(-0.0835)Asn+(0.0030)Gly+(-0.0688)Cit+(0.0027)Arg+(-0.0276)Tyr;0.682,0.733,0.794,0.809,0.793,0.821,0.737,0.790,(4.6623)+(-0.0048)Ala+(-0.0680)Cit+(0.0044)Arg+(0.0016)Tyr+(-0.1354)Met;0.682,0.724,0.685,0.733,0.626,0.750,0.637,0.686,(2.1766)+(0.0058)Pro+

(-0.0535)Tyr+(-0.0304)Val+(0.0268)Orn+(0.0313)Leu;0.682,0.728,0.743,0.741,0.660,0.813,0.870,0.771,(0.1017)+(0.0006)Gly+(-0.0083)Thr+(-0.0132)Ala+(0.0443)Ile+(0.0114)Phe;0.682,0.724,0.708,0.772,0.648,0.673,0.686,0.695,(1.5528)+(-0.0027)Gly+(0.0071)Pro+(-0.0733)Tyr+(-0.0167)Val+(0.0755)Phe;0.682,0.729,0.788,0.805,0.771,0.831,0.744,0.788,(4.1585)+(-0.0825)Asn+(-0.0064)Ala+(-0.0135)Arg+(0.0315)Orn+(-0.0072)Leu;0.682,0.723,0.738,0.732,0.658,0.815,0.866,0.768,(0.4051)+(0.0004)Gly+(-0.0092)Thr+(-0.0129)Ala+(0.0074)Orn+(0.0444)Ile;0.682,0.731,0.668,0.686,0.655,0.704,0.622,0.667,(2.0725)+(0.0034)Thr+(-0.0802)Cit+(0.0005)Pro+(-0.0653)Tyr+(0.0390)Ile;0.682,0.730,0.800,0.846,0.779,0.819,0.706,0.788,(3.6944)+(-0.1370)Asn+(0.0060)Gln+(0.0141)Thr+(-0.0183)Arg+(-0.0144)Val;0.682,0.726,0.737,0.765,0.725,0.753,0.677,0.730,(4.3003)+(-0.0810)Asn+(-0.0006)Gly+(-0.0408)Tyr+(0.0324)Orn+(-0.0088)Lys;0.682,0.725,0.775,0.792,0.735,0.827,0.777,0.783,(4.0915)+(-0.1012)Asn+(0.0075)Thr+(-0.0093)Ala+(0.0106)Pro+(-0.0063)Leu;0.682,0.725,0.757,0.778,0.780,0.780,0.636,0.744,(4.0782)+(0.0026)Gly+(-0.0655)Cit+(-0.0013)Tyr+(-0.1710)Met+(-0.0008)Lys;0.682,0.735,0.693,0.733,0.610,0.821,0.668,0.708,(0.4678)+(0.0219)Ser+(-0.0100)Ala+(0.0129)Pro+(-0.0433)Tyr+(-0.0027)Leu;0.682,0.726,0.764,0.788,0.775,0.744,0.690,0.749,(2.6478)+(-0.1104)Asn+(-0.0181)Arg+(0.0266)Orn+(-0.0243)Leu+(0.0559)Phe;0.682,0.727,0.743,0.776,0.732,0.758,0.665,0.733,(4.4080)+(-0.0852)Asn+(-0.0381)Tyr+(0.0336)Orn+(-0.0064)Lys+(-0.0064)Leu;0.682,0.726,0.695,0.699,0.723,0.795,0.555,0.693,(0.8382)+(0.0295)Ser+(0.0009)Gln+(-0.0747)Cit+(-0.0079)Arg+(-0.0179)Lys;0.682,0.726,0.734,0.770,0.727,0.744,0.649,0.722,(4.1424)+(-0.0829)Asn+(-0.0000)Gly+(-0.0139)Arg+(-0.0437)Tyr+(0.0307)Orn;0.682,0.725,0.770,0.793,0.776,0.802,0.671,0.761,(5.7299)+(-0.1099)Asn+(0.0157)Thr+(-0.0595)Cit+(-0.0103)Val+(-0.0029)Lys;0.682,0.728,0.809,0.840,0.767,0.841,0.790,0.810,(2.7555)+(-0.1267)Asn+(0.0046)G

ln+(0.0081)Thr+(-0.0066)Ala+(-0.0041)Leu;0.682,0.722,0.784,0.822,0.773,0.789,0.704,0.772,(1.6438)+(-0.0007)Gly+(0.0056)Gln+(-0.0142)Arg+(-0.2256)Met+(0.0020)Leu;0.682,0.734,0.717,0.768,0.704,0.820,0.535,0.707,(1.5266)+(0.0276)Ser+(-0.0198)Arg+(-0.0285)Tyr+(-0.0065)Val+(-0.0075)Lys;0.682,0.730,0.766,0.813,0.739,0.804,0.672,0.757,(4.9018)+(-0.0892)Asn+(0.0179)Thr+(-0.0052)Ala+(-0.0130)Arg+(-0.0321)Tyr;0.682,0.726,0.755,0.776,0.777,0.778,0.636,0.742,(3.9495)+(0.0026)Gly+(-0.0678)Cit+(0.0026)Arg+(-0.0016)Tyr+(-0.1778)Met;0.681,0.730,0.757,0.801,0.727,0.829,0.653,0.753,(3.6528)+(-0.0052)Ala+(-0.0204)Arg+(-0.0300)Tyr+(-0.0103)Val+(0.0385)Orn;0.681,0.732,0.696,0.718,0.649,0.741,0.701,0.702,(-0.0708)+(0.0399)Ser+(-0.0099)Gly+(-0.0125)Thr+(-0.0586)Tyr+(0.0201)Orn;0.681,0.728,0.710,0.758,0.627,0.743,0.730,0.715,(0.8886)+(0.0011)Thr+(-0.0109)Ala+(0.0105)Pro+(-0.0630)Tyr+(0.0576)Phe;0.681,0.727,0.800,0.841,0.773,0.811,0.737,0.790,(2.1955)+(-0.0013)Gly+(0.0049)Gln+(-0.0068)Val+(-0.2058)Met+(-0.0008)Lys;0.681,0.725,0.741,0.736,0.662,0.812,0.868,0.769,(0.1699)+(-0.0091)Thr+(-0.0132)Ala+(0.0066)Orn+(0.0422)Ile+(0.0095)Phe;0.681,0.727,0.686,0.678,0.712,0.790,0.578,0.689,(0.7300)+(0.0332)Ser+(-0.0064)Thr+(-0.0788)Cit+(-0.0188)Lys+(0.0049)Leu;0.681,0.724,0.687,0.755,0.630,0.671,0.637,0.673,(0.9023)+(0.0024)Thr+(0.0066)Pro+(-0.0741)Tyr+(-0.0171)Val+(0.0762)Phe;0.681,0.731,0.734,0.794,0.685,0.733,0.679,0.723,(1.8610)+(-0.0182)Arg+(-0.0588)Tyr+(-0.0245)Val+(0.0207)Leu+(0.0766)Phe;0.681,0.728,0.693,0.682,0.627,0.812,0.774,0.724,(0.0928)+(0.0342)Ser+(-0.0067)Gly+(-0.0027)Gln+(-0.0124)Ala+(0.0106)Pro;0.681,0.723,0.800,0.842,0.761,0.834,0.748,0.796,(5.2220)+(-0.0795)Asn+(0.0006)Gly+(-0.0034)Ala+(-0.0153)Tyr+(-0.0076)Val;0.681,0.723,0.777,0.796,0.734,0.827,0.783,0.785,(3.9693)+(-0.0904)Asn+(0.0013)Gly+(-0.0091)Ala+(0.0113)Pro+(-0.0055)Leu;0.681,0.730,0.749,0.770,0.752,0.755,0.684,0.740,(3.4312)+(-0.0086)Arg+(0.0084)Pro+(-0.21

78)Met+(-0.0012)Lys+(-0.0007)Leu;0.681,0.732,0.669,0.686,0.659,0.706,0.622,0.668,(1.9770)+(0.0012)Gly+(-0.0806)Cit+(0.0006)Pro+(-0.0620)Tyr+(0.0397)Ile;0.681,0.732,0.741,0.766,0.733,0.750,0.685,0.733,(3.3908)+(0.0089)Pro+(-0.0150)Tyr+(-0.2050)Met+(-0.0028)Lys+(0.0006)Leu;0.681,0.727,0.722,0.763,0.674,0.725,0.716,0.719,(2.1306)+(-0.1281)Asn+(0.0041)Gln+(0.0088)Thr+(-0.0576)Tyr+(0.0318)Ile;0.681,0.725,0.783,0.812,0.768,0.789,0.731,0.775,(1.6223)+(-0.0008)Gly+(0.0050)Gln+(-0.2288)Met+(-0.0063)Lys+(0.0053)Leu;0.681,0.732,0.738,0.737,0.767,0.724,0.690,0.730,(2.8753)+(-0.1266)Asn+(0.0108)Thr+(-0.0733)Cit+(-0.0054)Arg+(0.0401)Phe;0.681,0.727,0.773,0.790,0.731,0.792,0.801,0.779,(5.4211)+(-0.1157)Asn+(-0.0043)Arg+(-0.0388)Val+(0.0008)Lys+(0.0541)Leu;0.681,0.725,0.799,0.825,0.783,0.810,0.756,0.793,(4.3914)+(-0.0406)Asn+(-0.0039)Ala+(-0.0045)Arg+(-0.1233)Met+(0.0013)Lys;0.681,0.731,0.740,0.757,0.767,0.782,0.612,0.729,(4.5814)+(-0.1026)Asn+(0.0032)Gly+(0.0129)Thr+(-0.0757)Cit+(-0.0091)Lys;0.681,0.726,0.699,0.693,0.636,0.798,0.775,0.726,(-1.1184)+(0.0347)Ser+(-0.0061)Gly+(-0.0029)Gln+(-0.0111)Ala+(0.0360)Phe;0.681,0.732,0.665,0.705,0.609,0.774,0.595,0.671,(0.5277)+(0.0171)Ser+(-0.0497)Tyr+(-0.0300)Val+(0.0220)Orn+(0.0356)Leu;0.681,0.728,0.695,0.723,0.688,0.807,0.550,0.692,(0.8063)+(0.0288)Ser+(-0.0238)Arg+(0.0069)Pro+(-0.0116)Val+(-0.0113)Lys;0.681,0.727,0.756,0.769,0.759,0.743,0.722,0.748,(2.5405)+(-0.1126)Asn+(0.0254)Orn+(-0.0097)Lys+(-0.0191)Leu+(0.0538)Phe;0.681,0.724,0.727,0.781,0.693,0.731,0.652,0.714,(0.7923)+(0.0032)Gln+(-0.0174)Arg+(-0.0645)Tyr+(-0.0136)Lys+(0.0646)Phe;0.681,0.725,0.781,0.808,0.769,0.839,0.693,0.777,(4.3943)+(0.0014)Gly+(-0.0064)Ala+(-0.0726)Cit+(-0.0175)Tyr+(-0.0053)Lys;0.681,0.725,0.767,0.769,0.754,0.782,0.776,0.770,(1.6842)+(-0.1039)Asn+(0.0055)Gln+(-0.0144)Arg+(-0.0148)Lys+(0.0319)Ile;0.681,0.730,0.743,0.772,0.739,0.751,0.672,0.734,(3.6304)+(-0.0090)Arg+(0.0092)Pro+(-0.0153)Tyr+(-0.

1969)Met+(-0.0011)Leu;0.681,0
.728,0.797,0.818,0.781,0.809,0.765,0.793,(4.1981)+(-0.0371)Asn+(-0.00
43)Ala+(-0.0039)Arg+(-0.1330)Met+(0.0052)Leu;0.681,0.734,0.728,0.754,
0.647,0.811,0.768,0.745,(-2.1782)+(0.0305)Ser+(-0.0160)Thr+(-0.0093)A
la+(-0.0089)Leu+(0.0509)Phe;0.681,0.727,0.724,0.744,0.646,0.840,0.752
,0.746,(0.1601)+(0.0291)Ser+(-0.0153)Thr+(-0.0100)Ala+(0.0140)Pro+(-0
.0092)Val;0.681,0.727,0.729,0.724,0.645,0.815,0.858,0.760,(0.0709)+(-
0.0008)Gln+(-0.0138)Ala+(0.0023)Orn+(0.0416)Ile+(0.0092)Phe;0.681,0.7
26,0.819,0.853,0.781,0.839,0.798,0.818,(2.5859)+(-0.1029)Asn+(0.0001)
Gly+(0.0058)Gln+(-0.0063)Ala+(-0.0136)Arg;0.681,0.725,0.748,0.756,0.7
19,0.819,0.735,0.757,(2.7532)+(-0.0105)Ala+(-0.0166)Arg+(0.0092)Pro+(
0.0258)Orn+(-0.0121)Lys;0.681,0.723,0.790,0.828,0.777,0.795,0.711,0.7
78,(1.8573)+(-0.0009)Gly+(0.0057)Gln+(-0.0131)Arg+(-0.2118)Met+(-0.00
25)Lys;0.681,0.728,0.759,0.763,0.729,0.806,0.778,0.769,(1.2079)+(-0.0
008)Thr+(-0.0095)Ala+(0.0234)Orn+(-0.0183)Lys+(0.0407)Phe;0.681,0.734
,0.707,0.725,0.671,0.770,0.686,0.713,(1.1318)+(0.0413)Ser+(-0.0099)Gl
y+(-0.0443)Tyr+(-0.0162)Lys+(0.0039)Leu;0.681,0.721,0.757,0.767,0.716
,0.798,0.784,0.766,(1.8597)+(-0.0093)Ala+(-0.0706)Cit+(-0.0211)Val+(0
.0256)Leu+(0.0535)Phe;0.681,0.729,0.800,0.819,0.797,0.808,0.748,0.793
,(2.9228)+(-0.1136)Asn+(0.0077)Gln+(-0.0786)Cit+(-0.0078)Lys+(-0.0027
)Leu;0.681,0.725,0.726,0.765,0.669,0.767,0.712,0.728,(3.0238)+(-0.004
3)Gly+(-0.0504)Tyr+(-0.0307)Val+(0.0331)Orn+(0.0342)Leu;0.681,0.724,0
.757,0.801,0.728,0.765,0.695,0.747,(5.6065)+(-0.0834)Asn+(-0.0075)Arg
+(0.0102)Pro+(-0.0288)Tyr+(-0.0127)Val;0.681,0.728,0.794,0.829,0.763,
0.841,0.735,0.792,(5.1277)+(-0.1094)Asn+(0.0145)Thr+(-0.0043)Ala+(-0.
0104)Val+(-0.0014)Lys;0.681,0.726,0.760,0.798,0.734,0.778,0.699,0.752
,(2.9900)+(-0.1044)Asn+(0.0048)Gln+(-0.0415)Tyr+(0.0270)Orn+(-0.0098)
Lys;0.681,0.724,0.784,0.806,0.780,0.786,0.731,0.776,(2.7679)+(-0.1279

)Asn+(0.0070)Gln+(-0.0782)Cit+(0.0036)Pro+(-0.0097)Leu;0.681,0.725,0.657,0.646,0.636,0.794,0.630,0.676,(0.9261)+(0.0322)Ser+(-0.0025)Gln+(-0.0312)Val+(-0.0199)Lys+(0.0482)Leu;0.681,0.723,0.698,0.751,0.692,0.683,0.580,0.676,(1.4009)+(0.0065)Thr+(-0.0752)Cit+(-0.0734)Tyr+(-0.0160)Leu+(0.0836)Phe;0.680,0.728,0.769,0.798,0.763,0.835,0.657,0.763,(4.5743)+(0.0131)Thr+(-0.0068)Ala+(-0.0755)Cit+(-0.0257)Tyr+(-0.0089)Lys;0.680,0.731,0.799,0.838,0.770,0.821,0.741,0.792,(3.5812)+(-0.1439)Asn+(0.0052)Gln+(0.0113)Thr+(-0.0138)Val+(-0.0029)Lys;0.680,0.728,0.797,0.841,0.769,0.806,0.734,0.788,(2.2393)+(-0.0014)Gly+(0.0049)Gln+(-0.0041)Tyr+(-0.0068)Val+(-0.2012)Met;0.680,0.730,0.695,0.692,0.616,0.787,0.799,0.723,(-1.7909)+(0.0312)Ser+(-0.0071)Gly+(-0.0139)Ala+(0.0087)Pro+(0.0249)Phe;0.680,0.729,0.698,0.698,0.624,0.823,0.762,0.727,(-0.2046)+(0.0339)Ser+(-0.0022)Gln+(-0.0171)Thr+(-0.0114)Ala+(0.0128)Pro;0.680,0.726,0.732,0.727,0.648,0.816,0.862,0.763,(0.0859)+(-0.0002)Gly+(-0.0006)Gln+(-0.0137)Ala+(0.0422)Ile+(0.0096)Phe;0.680,0.724,0.680,0.672,0.710,0.789,0.562,0.683,(0.6793)+(0.0302)Ser+(0.0005)Gln+(-0.0821)Cit+(-0.0214)Lys+(0.0046)Leu;0.680,0.722,0.778,0.810,0.748,0.817,0.727,0.775,(2.5628)+(0.0038)Gln+(-0.0080)Ala+(-0.0820)Cit+(-0.0296)Tyr+(0.0045)Leu;0.680,0.729,0.670,0.689,0.667,0.714,0.594,0.666,(2.3438)+(0.0071)Thr+(-0.0713)Cit+(-0.0117)Arg+(-0.0637)Tyr+(0.0397)Ile;0.680,0.722,0.652,0.653,0.664,0.749,0.552,0.655,(-1.7820)+(0.0350)Ser+(-0.0245)Arg+(0.0019)Pro+(-0.0231)Lys+(0.0415)Phe;0.680,0.728,0.784,0.806,0.765,0.813,0.746,0.782,(3.3425)+(0.0009)Gly+(-0.0046)Ala+(-0.1727)Met+(-0.0034)Lys+(0.0090)Leu;0.680,0.735,0.715,0.739,0.677,0.776,0.689,0.720,(1.2539)+(0.0412)Ser+(-0.0099)Gly+(-0.0017)Thr+(-0.0417)Tyr+(-0.0143)Lys;0.680,0.729,0.797,0.814,0.794,0.807,0.749,0.791,(2.8302)+(-0.1130)Asn+(0.0077)Gln+(-0.0791)Cit+(-0.0006)Arg+(-0.0088)Lys;0.680,0.722,0.785,0.819,0.757,0.823,0.729,0.782,(2.7294)+(-0.0004)Gly+(0.

0040)Gln+(-0.0074)Ala+(-0.0797)Cit+(-0.0286)Tyr;0.680,0.728,0.778,0.790,0.754,0.832,0.757,0.783,(4.0185)+(-0.0928)Asn+(0.0079)Thr+(-0.0070)Ala+(0.0266)Orn+(-0.0099)Lys;0.680,0.721,0.757,0.790,0.737,0.768,0.702,0.749,(1.6953)+(-0.0017)Gly+(0.0036)Gln+(-0.0155)Tyr+(-0.2210)Met+(0.0202)Orn;0.680,0.738,0.712,0.723,0.666,0.833,0.689,0.728,(0.0530)+(0.0269)Ser+(-0.0083)Ala+(0.0207)Orn+(-0.0204)Lys+(0.0054)Leu;0.680,0.726,0.793,0.816,0.773,0.803,0.763,0.789,(4.2100)+(-0.0411)Asn+(-0.0042)Ala+(-0.0063)Tyr+(-0.1257)Met+(0.0053)Leu;0.680,0.726,0.731,0.769,0.677,0.778,0.712,0.734,(1.3087)+(0.0370)Ser+(-0.0099)Gly+(-0.0056)Thr+(-0.0432)Tyr+(-0.0083)Val;0.680,0.724,0.792,0.828,0.776,0.792,0.730,0.781,(4.9082)+(-0.0603)Asn+(-0.0052)Tyr+(-0.0090)Val+(-0.1159)Met+(0.0050)Lys;0.680,0.735,0.716,0.775,0.698,0.818,0.522,0.703,(1.3390)+(0.0251)Ser+(0.0003)Gln+(-0.0240)Arg+(-0.0334)Tyr+(-0.0085)Val;0.680,0.723,0.723,0.776,0.715,0.703,0.614,0.702,(1.8973)+(-0.0638)Cit+(-0.0084)Arg+(-0.0649)Tyr+(-0.0155)Leu+(0.0845)Phe;0.680,0.723,0.788,0.824,0.763,0.827,0.717,0.783,(2.7161)+(0.0044)Gln+(-0.0072)Ala+(-0.0752)Cit+(-0.0066)Arg+(-0.0274)Tyr;0.680,0.722,0.768,0.795,0.772,0.771,0.689,0.757,(3.8565)+(-0.0419)Asn+(0.0016)Gly+(-0.0054)Arg+(-0.1602)Met+(0.0018)Leu;0.680,0.726,0.807,0.840,0.787,0.823,0.750,0.800,(5.0948)+(-0.0490)Asn+(-0.0026)Ala+(-0.0032)Arg+(-0.0063)Val+(-0.0955)Met;0.680,0.721,0.701,0.731,0.660,0.704,0.706,0.700,(3.0559)+(-0.0930)Asn+(0.0012)Gly+(0.0017)Pro+(-0.0525)Tyr+(0.0343)Ile;0.680,0.719,0.702,0.709,0.718,0.804,0.580,0.703,(1.2949)+(0.0304)Ser+(-0.0053)Thr+(-0.0726)Cit+(-0.0039)Val+(-0.0145)Lys;0.680,0.721,0.708,0.760,0.698,0.692,0.603,0.688,(1.4832)+(0.0008)Gly+(-0.0734)Cit+(-0.0673)Tyr+(-0.0154)Leu+(0.0833)Phe;0.680,0.737,0.675,0.719,0.669,0.769,0.503,0.665,(0.1315)+(0.0278)Ser+(-0.0075)Thr+(-0.0256)Arg+(-0.0476)Tyr+(0.0219)Orn;0.680,0.723,0.692,0.679,0.706,0.762,0.644,0.698,(0.6859)+(-0.0996)Cit+(-0.0298

)Val+(0.0469)Orn+(0.0217)Leu+(0.0316)Phe;0.680,0.736,0.716,0.741,0.67
6,0.777,0.688,0.720,(1.2119)+(0.0402)Ser+(-0.0101)Gly+(0.0004)Gln+(-0
.0431)Tyr+(-0.0150)Lys;0.680,0.728,0.721,0.759,0.669,0.773,0.691,0.72
3,(1.5762)+(0.0353)Ser+(-0.0102)Gly+(-0.0006)Gln+(-0.0468)Tyr+(-0.008
8)Val;0.680,0.726,0.694,0.726,0.659,0.703,0.676,0.691,(3.1181)+(-0.10
89)Asn+(0.0088)Thr+(-0.0592)Tyr+(0.0139)Orn+(0.0301)Ile;0.680,0.722,0
.787,0.825,0.757,0.833,0.718,0.783,(2.8529)+(0.0039)Gln+(-0.0068)Ala+
(-0.0771)Cit+(-0.0264)Tyr+(-0.0027)Val;0.680,0.731,0.724,0.700,0.778,
0.816,0.608,0.726,(2.2820)+(0.0021)Gln+(-0.1126)Cit+(-0.0027)Arg+(0.0
520)Orn+(-0.0233)Lys;0.680,0.731,0.679,0.713,0.629,0.725,0.660,0.682,
(0.6932)+(0.0359)Ser+(-0.0109)Gly+(0.0074)Pro+(-0.0654)Tyr+(-0.0088)L
eu;0.680,0.722,0.793,0.828,0.767,0.822,0.732,0.787,(3.8120)+(0.0003)G
ly+(-0.0031)Ala+(-0.0052)Val+(-0.1588)Met+(0.0017)Lys;0.680,0.728,0.7
12,0.738,0.674,0.786,0.671,0.717,(3.0423)+(-0.0386)Tyr+(-0.0301)Val+(
0.0358)Orn+(-0.0143)Lys+(0.0408)Leu;0.680,0.729,0.735,0.779,0.721,0.7
45,0.642,0.722,(4.2849)+(-0.1087)Asn+(0.0087)Thr+(-0.0441)Tyr+(0.0276
)Orn+(-0.0096)Leu;0.680,0.725,0.761,0.772,0.729,0.800,0.766,0.767,(1.
1423)+(-0.0091)Ala+(0.0242)Orn+(-0.0169)Lys+(-0.0072)Leu+(0.0468)Phe;
0.680,0.725,0.794,0.823,0.773,0.806,0.754,0.789,(4.4231)+(-0.0446)Asn
+(-0.0038)Ala+(-0.0061)Tyr+(-0.1151)Met+(0.0007)Lys;0.679,0.723,0.777
,0.792,0.745,0.824,0.768,0.783,(3.4643)+(-0.1077)Asn+(0.0006)Gly+(0.0
054)Thr+(-0.0077)Ala+(0.0218)Orn;0.679,0.731,0.719,0.755,0.649,0.830,
0.690,0.731,(-0.0106)+(0.0260)Ser+(-0.0123)Thr+(-0.0071)Ala+(-0.0330)
Tyr+(0.0223)Orn;0.679,0.729,0.723,0.754,0.717,0.728,0.649,0.712,(2.35
04)+(-0.0726)Cit+(0.0017)Arg+(-0.0603)Tyr+(-0.0142)Lys+(0.0761)Phe;0.
679,0.725,0.762,0.784,0.688,0.846,0.794,0.778,(0.6115)+(0.0356)Ser+(-
0.0074)Gly+(-0.0096)Thr+(-0.0064)Ala+(-0.0074)Val;0.679,0.721,0.783,0
.802,0.746,0.823,0.781,0.788,(4.3705)+(-0.0768)Asn+(-0.0089)Ala+(-0.0

090)Arg+(0.0115)Pro+(-0.0056)Leu;0.679,0.723,0.773,0.811,0.746,0.822,0.695,0.768,(2.7675)+(0.0033)Gln+(0.0054)Thr+(-0.0077)Ala+(-0.0817)Cit+(-0.0314)Tyr;0.679,0.724,0.648,0.647,0.661,0.749,0.548,0.651,(-1.3745)+(0.0369)Ser+(-0.0016)Gln+(-0.0227)Arg+(-0.0221)Lys+(0.0454)Phe;0.679,0.717,0.679,0.689,0.650,0.728,0.676,0.686,(2.2436)+(-0.0011)Pro+(-0.0549)Tyr+(0.0200)Orn+(-0.0218)Lys+(0.0434)Ile;0.679,0.728,0.700,0.743,0.647,0.768,0.650,0.702,(2.6176)+(-0.0011)Gln+(-0.0470)Tyr+(-0.0311)Val+(0.0311)Orn+(0.0355)Leu;0.679,0.725,0.700,0.701,0.719,0.799,0.584,0.701,(0.6834)+(0.0312)Ser+(0.0010)Gln+(-0.0069)Thr+(-0.0789)Cit+(-0.0172)Lys;0.679,0.734,0.714,0.772,0.698,0.817,0.521,0.702,(1.3878)+(0.0258)Ser+(-0.0008)Thr+(-0.0233)Arg+(-0.0327)Tyr+(-0.0084)Val;0.679,0.726,0.738,0.754,0.664,0.810,0.800,0.757,(0.5380)+(-0.0095)Ala+(-0.0320)Val+(0.0245)Orn+(0.0339)Leu+(0.0393)Phe;0.679,0.729,0.793,0.838,0.767,0.810,0.714,0.782,(2.1232)+(0.0047)Gln+(-0.0024)Tyr+(-0.0066)Val+(-0.2039)Met+(-0.0007)Lys;0.679,0.729,0.770,0.821,0.742,0.769,0.690,0.756,(3.0989)+(-0.1306)Asn+(0.0051)Gln+(0.0108)Thr+(-0.0417)Tyr+(-0.0065)Leu;0.679,0.726,0.823,0.854,0.787,0.843,0.802,0.821,(2.7562)+(-0.0972)Asn+(0.0060)Gln+(-0.0059)Ala+(-0.0116)Arg+(-0.0043)Lys;0.679,0.721,0.730,0.724,0.645,0.817,0.860,0.762,(0.3476)+(-0.0004)Gly+(-0.0006)Gln+(-0.0135)Ala+(0.0032)Orn+(0.0432)Ile;0.679,0.727,0.739,0.753,0.758,0.774,0.638,0.731,(4.2376)+(-0.0894)Asn+(0.0043)Gly+(-0.0740)Cit+(0.0044)Pro+(-0.0069)Lys;0.679,0.728,0.748,0.763,0.681,0.854,0.771,0.767,(0.5200)+(0.0283)Ser+(-0.0079)Gly+(-0.0077)Ala+(-0.0113)Val+(0.0208)Orn;0.679,0.727,0.776,0.803,0.774,0.786,0.700,0.766,(2.2608)+(-0.1310)Asn+(0.0028)Gly+(0.0070)Gln+(-0.0810)Cit+(-0.0050)Arg;0.679,0.729,0.744,0.810,0.703,0.726,0.667,0.727,(1.9908)+(-0.0011)Gly+(-0.0176)Arg+(-0.0607)Tyr+(-0.0146)Val+(0.0842)Phe;0.679,0.717,0.676,0.694,0.683,0.738,0.571,0.671,(-1.1454)+(0.0282)Ser+(-0.0579)Cit+(-0.0236)Arg

+(-0.0157)Val+(0.0592)Phe;0.679,0.732,0.726,0.702,0.779,0.816,0.616,0.728,(2.2671)+(0.0021)Gln+(-0.0023)Thr+(-0.1144)Cit+(0.0529)Orn+(-0.0233)Lys;0.679,0.726,0.809,0.835,0.772,0.847,0.790,0.811,(2.9347)+(-0.1159)Asn+(0.0049)Gln+(0.0101)Thr+(-0.0065)Ala+(-0.0081)Lys;0.679,0.722,0.788,0.826,0.772,0.801,0.713,0.778,(4.8757)+(-0.0561)Asn+(0.0011)Gly+(-0.0033)Tyr+(-0.0076)Val+(-0.1095)Met;0.679,0.724,0.731,0.712,0.733,0.752,0.763,0.740,(2.2935)+(-0.0964)Asn+(0.0166)Orn+(-0.0190)Lys+(0.0240)Ile+(0.0225)Phe;0.679,0.719,0.761,0.793,0.745,0.816,0.667,0.755,(3.9366)+(-0.0000)Gly+(0.0089)Thr+(-0.0074)Ala+(-0.0767)Cit+(-0.0298)Tyr;0.679,0.725,0.772,0.775

,0.770,0.841,0.716,0.776,(3.9463)+(0.0108)Thr+(-0.0090)Ala+(-0.0828)Cit+(-0.0132)Lys+(0.0092)Leu;0.679,0.724,0.752,0.787,0.735,0.774,0.676,0.743,(1.5664)+(0.0033)Gln+(-0.0132)Tyr+(-0.2248)Met+(0.0196)Orn+(-0.0005)Leu;0.679,0.720,0.738,0.766,0.730,0.759,0.665,0.730,(2.8813)+(-0.0008)Gly+(-0.0156)Tyr+(-0.1970)Met+(0.0253)Orn+(-0.0013)Leu;0.679,0.722,0.683,0.728,0.664,0.674,0.613,0.670,(0.4925)+(0.0024)Gln+(-0.0828)Cit+(0.0037)Pro+(-0.0786)Tyr+(0.0592)Phe;0.679,0.724,0.761,0.775,0.779,0.770,0.678,0.751,(4.3341)+(-0.0618)Cit+(-0.0052)Tyr+(-0.1692)Met+(-0.0029)Lys+(0.0065)Leu;0.679,0.721,0.769,0.798,0.770,0.803,0.667,0.760,(5.2622)+(-0.0929)Asn+(0.0031)Gly+(-0.0602)Cit+(-0.0090)Val+(0.0006)Lys;0.679,0.728,0.768,0.811,0.731,0.800,0.707,0.762,(4.6129)+(-0.0989)Asn+(0.0149)Thr+(-0.0055)Ala+(-0.0323)Tyr+(0.0002)Leu;0.679,0.724,0.797,0.825,0.779,0.808,0.752,0.791,(4.5614)+(-0.0412)Asn+(-0.0037)Ala+(-0.0038)Arg+(-0.0056)Tyr+(-0.1097)Met;0.679,0.719,0.714,0.751,0.690,0.719,0.662,0.705,(3.7626)+(-0.0976)Asn+(-0.0002)Gly+(0.0046)Pro+(-0.0511)Tyr+(0.0246)Orn;0.679,0.718,0.737,0.762,0.759,0.760,0.612,0.723,(4.3358)+(-0.1141)Asn+(0.0032)Gly+(0.0099)Thr+(-0.0738)Cit+(-0.0058)Leu;0.679,0.722,0.765,0.790,0.747,0.816,0.702,0.764,(3.7537)+(0.00

14)Gly+(-0.0077)Ala+(-0.0768)Cit+(-0.0240)Tyr+(0.0056)Leu;0.679,0.718,0.699,0.707,0.716,0.806,0.569,0.699,(1.2082)+(0.0276)Ser+(0.0006)Gln+(-0.0752)Cit+(-0.0044)Val+(-0.0166)Lys;0.679,0.730,0.674,0.693,0.668,0.717,0.607,0.671,(2.1913)+(0.0015)Gly+(-0.0735)Cit+(-0.0082)Arg+(-0.0582)Tyr+(0.0408)Ile;0.679,0.724,0.770,0.786,0.772,0.772,0.721,0.763,(2.3619)+(-0.1445)Asn+(0.0066)Gln+(0.0066)Thr+(-0.0829)Cit+(0.0011)Pro;0.678,0.722,0.785,0.825,0.763,0.788,0.727,0.775,(1.9150)+(-0.0013)Gly+(0.0051)Gln+(-0.0082)Tyr+(-0.2060)Met+(-0.0045)Lys;0.678,0.727,0.768,0.811,0.735,0.807,0.697,0.762,(4.8446)+(-0.0924)Asn+(0.0163)Thr+(-0.0052)Ala+(-0.0301)Tyr+(-0.0048)Lys;0.678,0.725,0.697,0.695,0.692,0.765,0.662,0.703,(0.2672)+(0.0426)Ser+(-0.0083)Gly+(-0.0208)Arg+(0.0035)Pro+(-0.0193)Lys;0.678,0.724,0.727,0.785,0.688,0.715,0.661,0.712,(0.7793)+(0.0020)Gln+(-0.0666)Tyr+(-0.0139)Lys+(-0.0121)Leu+(0.0766)Phe;0.678,0.727,0.763,0.755,0.749,0.772,0.809,0.771,(1.1050)+(-0.1186)Asn+(0.0047)Gln+(-0.0184)Lys+(0.0265)Ile+(0.0240)Phe;0.678,0.727,0.761,0.766,0.728,0.809,0.781,0.771,(0.9326)+(0.0008)Gln+(-0.0096)Ala+(0.0223)Orn+(-0.0190)Lys+(0.0401)Phe;0.678,0.722,0.762,0.796,0.752,0.817,0.655,0.755,(4.0948)+(0.0108)Thr+(-0.0072)Ala+(-0.0715)Cit+(-0.0068)Arg+(-0.0300)Tyr;0.678,0.721,0.769,0.802,0.766,0.769,0.689,0.756,(4.1795)+(-0.0441)Asn+(0.0013)Gly+(-0.0050)Arg+(-0.0089)Tyr+(-0.1363)Met;0.678,0.725,0.734,0.729,0.648,0.817,0.864,0.765,(-0.1168)+(-0.0006)Gly+(-0.0138)Ala+(0.0016)Orn+(0.0413)Ile+(0.0082)Phe;0.678,0.725,0.703,0.749,0.671,0.700,0.647,0.692,(1.7811)+(-0.0144)Arg+(0.0048)Pro+(-0.0672)Tyr+(-0.0127)Lys+(0.0638)Phe;0.678,0.720,0.683,0.695,0.667,0.731,0.649,0.686,(2.6147)+(-0.0151)Arg+(-0.0530)Tyr+(0.0231)Orn+(-0.0181)Lys+(0.0406)Ile;0.678,0.717,0.695,0.744,0.675,0.681,0.618,0.680,(0.4475)+(-0.0001)Gly+(0.0027)Gln+(-0.0824)Cit+(-0.0752)Tyr+(0.0619)Phe;0.678,0.717,0.681,0.695,0.650,0.728,0.675,0.687,(1.8408)+(0.0012)Gln+(-0.

0564)Tyr+(0.0180)Orn+(-0.0225)Lys+(0.0421)Ile;0.678,0.724,0.822,0.857,0.785,0.843,0.794,0.820,(2.7176)+(-0.1023)Asn+(0.0059)Gln+(-0.0058)Ala+(-0.0135)Arg+(-0.0031)Leu;0.678,0.716,0.668,0.679,0.640,0.722,0.657,0.675,(2.1956)+(0.0034)Thr+(-0.0577)Tyr+(0.0183)Orn+(-0.0227)Lys+(0.0425)Ile;0.678,0.731,0.682,0.702,0.650,0.764,0.635,0.688,(-1.6609)+(0.0326)Ser+(-0.0092)Thr+(-0.0125)Val+(-0.0181)Lys+(0.0578)Phe;0.678,0.730,0.682,0.699,0.672,0.714,0.634,0.680,(2.4585)+(-0.0709)Cit+(-0.0078)Arg+(0.0010)Pro+(-0.0598)Tyr+(0.0389)Ile;0.678,0.720,0.754,0.782,0.737,0.806,0.678,0.751,(3.7424)+(0.0088)Thr+(-0.0081)Ala+(-0.0788)Cit+(-0.0317)Tyr+(0.0051)Leu;0.678,0.719,0.709,0.705,0.723,0.761,0.653,0.711,(0.9905)+(-0.0083)Thr+(-0.1005)Cit+(-0.0185)Val+(0.0503)Orn+(0.0418)Phe;0.678,0.723,0.722,0.773,0.648,0.753,0.719,0.723,(0.5732)+(-0.0001)Thr+(-0.0088)Ala+(-0.0607)Tyr+(0.0171)Orn+(0.0591)Phe;0.678,0.729,0.654,0.633,0.718,0.762,0.497,0.652,(-0.8361)+(0.0233)Ser+(-0.0944)Cit+(-0.0226)Arg+(-0.0013)Pro+(0.0298)Orn;0.678,0.721,0.736,0.790,0.717,0.806,0.582,0.724,(2.8200)+(0.0018)Gln+(-0.0250)Arg+(-0.0407)Tyr+(-0.0131)Val+(0.0352)Orn;0.678,0.724,0.792,0.832,0.770,0.834,0.700,0.784,(5.3626)+(-0.1023)Asn+(0.0169)Thr+(-0.0041)Ala+(-0.0122)Arg+(-0.0107)Val;0.678,0.722,0.782,0.814,0.774,0.794,0.706,0.772,(5.8707)+(-0.0793)Asn+(-0.0537)Cit+(-0.0201)Tyr+(-0.0080)Val+(0.0021)Lys;0.678,0.721,0.765,0.795,0.762,0.760,0.698,0.754,(3.9362)+(-0.0465)Asn+(0.0012)Gly+(-0.0098)Tyr+(-0.1475)Met+(0.0021)Leu;0.678,0.721,0.701,0.755,0.666,0.684,0.642,0.687,(1.4308)+(0.0062)Pro+(-0.0707)Tyr+(-0.0123)Lys+(-0.0154)Leu+(0.0771)Phe;0.678,0.723,0.700,0.747,0.660,0.695,0.660,0.691,(0.8887)+(0.0018)Gln+(0.0039)Pro+(-0.0703)Tyr+(-0.0179)Lys+(0.0622)Phe;0.678,0.722,0.695,0.729,0.657,0.700,0.681,0.692,(3.1691)+(-0.1079)Asn+(0.0004)Gly+(0.0107)Thr+(-0.0575)Tyr+(0.0344)Ile;0.678,0.725,0.718,0.722,0.647,0.825,0.779,0.743,(-0.2228)+(0.0310)Ser+(-0.0076)Gly+(

-0.0119)Ala+(0.0109)Pro+(-0.0079)Leu;0.678,0.724,0.650,0.648,0.668,0.756,0.541,0.653,(-1.7197)+(0.0334)Ser+(-0.0253)Arg+(0.0154)Orn+(-0.0247)Lys+(0.0393)Phe;0.678,0.735,0.712,0.720,0.632,0.808,0.787,0.737,(-2.4555)+(0.0311)Ser+(-0.0198)Thr+(-0.0104)Ala+(0.0141)Orn+(0.0377)Phe;0.678,0.727,0.725,0.739,0.638,0.852,0.776,0.751,(0.0972)+(0.0261)Ser+(-0.0096)Thr+(-0.0077)Ala+(-0.0276)Val+(0.0411)Leu;0.678,0.722,0.738,0.759,0.753,0.766,0.634,0.728,(4.2107)+(-0.1002)Asn+(0.0040)Gly+(-0.0726)Cit+(0.0051)Pro+(-0.0079)Leu;0.678,0.724,0.707,0.711,0.677,0.787,0.705,0.720,(0.7889)+(0.0384)Ser+(-0.0093)Gly+(0.0058)Pro+(-0.0110)Val+(-0.0179)Lys;0.678,0.720,0.706,0.731,0.671,0.748,0.680,0.708,(1.7435)+(0.0031)Gln+(-0.0162)Arg+(-0.0518)Tyr+(-0.0172)Lys+(0.0449)Ile;0.678,0.725,0.791,0.828,0.755,0.803,0.759,0.786,(3.4817)+(-0.1332)Asn+(0.0053)Gln+(0.0072)Pro+(-0.0160)Val+(-0.0007)Lys;0.678,0.738,0.719,0.747,0.665,0.840,0.669,0.730,(0.7077)+(0.0281)Ser+(-0.0065)Ala+(-0.0265)Tyr+(-0.0151)Lys+(0.0095)Leu;0.678,0.721,0.693,0.706,0.627,0.840,0.686,0.715,(1.0428)+(0.0249)Ser+(-0.0029)Gln+(-0.0103)Ala+(0.0129)Pro+(-0.0106)Val;0.677,0.724,0.797,0.845,0.778,0.815,0.694,0.783,(2.2233)+(0.0055)Gln+(-0.0143)Arg+(-0.0072)Val+(-0.1972)Met+(0.0020)Lys;0.677,0.724,0.783,0.825,0.769,0.795,0.691,0.770,(1.8917)+(0.0055)Gln+(-0.0132)Arg+(-0.0065)Tyr+(-0.2015)Met+(-0.0022)Lys;0.677,0.723,0.764,0.815,0.729,0.751,0.708,0.751,(3.0392)+(-0.1142)Asn+(0.0053)Gln+(0.0066)Pro+(-0.0426)Tyr+(-0.0095)Leu;0.677,0.722,0.791,0.810,0.776,0.852,0.726,0.791,(2.8656)+(0.0038)Gln+(0.0067)Thr+(-0.0082)Ala+(-0.0848)Cit+(-0.0121)Lys;0.677,0.722,0.796,0.823,0.793,0.797,0.733,0.786,(2.7893)+(-0.1220)Asn+(0.0075)Gln+(-0.0743)Cit+(-0.0056)Arg+(-0.0072)Leu;0.677,0.726,0.770,0.797,0.776,0.801,0.664,0.759,(5.7332)+(-0.1113)Asn+(0.0158)Thr+(-0.0554)Cit+(-0.0050)Arg+(-0.0113)Val;0.677,0.722,0.696,0.722,0.665,0.804,0.617,0.702,(0.2945)+(0.0280)Ser+(-0.0060)Thr+(-0.0248)A

rg+(-0.0295)Val+(0.0346)Leu;0.677,0.727,0.709,0.674,0.766,0.797,0.619,0.714,(1.8715)+(-0.1156)Cit+(-0.0021)Pro+(0.0535)Orn+(-0.0263)Lys+(0.0378)Phe;0.677,0.720,0.736,0.780,0.702,0.732,0.692,0.726,(2.6251)+(-0.1194)Asn+(0.0042)Gln+(0.0040)Pro+(-0.0513)Tyr+(0.0198)Orn;0.677,0.718,0.756,0.799,0.723,0.749,0.714,0.746,(2.7305)+(-0.1168)Asn+(-0.0013)Gly+(0.0046)Gln+(-0.0482)Tyr+(0.0220)Orn;0.677,0.712,0.722,0.735,0.724,0.784,0.643,0.721,(1.4201)+(0.0341)Ser+(-0.0069)Gly+(-0.0488)Cit+(-0.0197)Arg+(-0.0108)Val;0.677,0.722,0.791,0.822,0.774,0.817,0.725,0.784,(3.7073)+(0.0007)Gly+(-0.0039)Ala+(-0.0072)Arg+(-0.1572)Met+(0.0005)Lys;0.677,0.725,0.775,0.783,0.768,0.844,0.717,0.778,(3.7509)+(0.0025)Gly+(-0.0083)Ala+(-0.0811)Cit+(-0.0098)Lys+(0.0092)Leu;0.677,0.718,0.714,0.763,0.665,0.744,0.664,0.709,(3.1967)+(-0.0046)Gly+(0.0074)Pro+(-0.0555)Tyr+(-0.0152)Val+(0.0308)Orn;0.677,0.723,0.781,0.801,0.779,0.774,0.738,0.773,(2.3158)+(-0.1284)Asn+(0.0073)Gln+(-0.0777)Cit+(-0.0060)Arg+(0.0018)Pro;0.677,0.714,0.748,0.772,0.709,0.834,0.702,0.754,(2.9826)+(-0.0092)Ala+(-0.0226)Arg+(0.0109)Pro+(-0.0137)Val+(0.0302)Orn;0.677,0.725,0.730,0.744,0.662,0.802,0.786,0.748,(-1.5741)+(0.0311)Ser+(-0.0070)Gly+(-0.0103)Ala+(-0.0115)Leu+(0.0432)Phe;0.677,0.726,0.694,0.709,0.633,0.810,0.699,0.713,(-1.2613)+(0.0271)Ser+(-0.0033)Gln+(-0.0103)Ala+(-0.0103)Leu+(0.0507)Phe;0.677,0.718,0.786,0.828,0.770,0.788,0.704,0.773,(1.9019)+(-0.0011)Gly+(0.0057)Gln+(-0.0141)Arg+(-0.0083)Tyr+(-0.2045)Met;0.677,0.713,0.670,0.685,0.697,0.729,0.529,0.660,(-1.4756)+(0.0282)Ser+(-0.0698)Cit+(-0.0239)Arg+(-0.0191)Leu+(0.0527)Phe;0.677,0.725,0.685,0.648,0.750,0.793,0.570,0.690,(1.3799)+(0.0025)Gly+(-0.1193)Cit+(0.0517)Orn+(-0.0273)Lys+(0.0392)Phe;0.677,0.720,0.729,0.787,0.708,0.713,0.634,0.710,(1.8082)+(-0.0155)Arg+(-0.0619)Tyr+(-0.0074)Lys+(-0.0141)Leu+(0.0806)Phe;0.677,0.721,0.755,0.764,0.707,0.803,0.798,0.768,(1.4772)+(-0.0002)Gly+(-0.0116)Ala+(0.0092)Pro+(-0.0

159)Lys+(0.0403)Phe;0.677,0.720,0.774,0.796,0.778,0.768,0.713,0.764,(4.0666)+(-0.0388)Asn+(-0.0049)Arg+(-0.1586)Met+(-0.0004)Lys+(0.0016)Leu;0.677,0.719,0.661,0.654,0.680,0.723,0.595,0.663,(-2.0325)+(0.0354)Ser+(-0.0168)Thr+(-0.0756)Cit+(-0.0158)Arg+(0.0353)Phe;0.677,0.718,0.713,0.712,0.737,0.787,0.614,0.712,(2.3299)+(-0.0006)Gly+(-0.0006)Gln+(-0.1015)Cit+(-0.0156)Val+(0.0503)Orn;0.677,0.722,0.707,0.775,0.681,0.679,0.598,0.683,(1.5209)+(-0.0215)Arg+(0.0072)Pro+(-0.0717)Tyr+(-0.0215)Leu+(0.0796)Phe;0.677,0.733,0.735,0.762,0.679,0.861,0.690,0.748,(0.5118)+(0.0303)Ser+(-0.0005)Gln+(-0.0060)Thr+(-0.0067)Ala+(-0.0130)Lys;0.677,0.730,0.697,0.732,0.651,0.746,0.665,0.698,(0.6525)+(0.0338)Ser+(-0.0110)Gly+(-0.0625)Tyr+(0.0189)Orn+(-0.0083)Leu;0.677,0.721,0.774,0.803,0.759,0.824,0.692,0.769,(4.0449)+(0.0011)Gly+(-0.0069)Ala+(-0.0727)Cit+(-0.0016)Arg+(-0.0219)Tyr;0.677,0.722,0.781,0.811,0.773,0.795,0.709,0.772,(5.8714)+(-0.0779)Asn+(-0.0560)Cit+(0.0027)Arg+(-0.0197)Tyr+(-0.0073)Val;0.677,0.718,0.746,0.770,0.743,0.728,0.700,0.735,(2.0147)+(-0.1338)Asn+(0.0017)Gly+(0.0210)Orn+(-0.0238)Leu+(0.0547)Phe;0.677,0.724,0.693,0.698,0.621,0.843,0.724,0.722,(0.9332)+(0.0261)Ser+(-0.0031)Gln+(-0.0079)Ala+(-0.0304)Val+(0.0454)Leu;0.677,0.721,0.721,0.733,0.641,0.820,0.787,0.74

5,(1.6906)+(-0.0107)Ala+(0.0095)Pro+(-0.0326)Val+(0.0230)Orn+(0.0382)Leu;0.677,0.714,0.675,0.680,0.681,0.721,0.616,0.675,(-1.8877)+(0.0329)Ser+(-0.0188)Thr+(-0.0834)Cit+(-0.0156)Leu+(0.0519)Phe;0.677,0.717,0.681,0.701,0.640,0.727,0.678,0.686,(1.8044)+(0.0015)Gln+(0.0045)Thr+(-0.0571)Tyr+(-0.0220)Lys+(0.0462)Ile;0.676,0.722,0.788,0.818,0.766,0.814,0.737,0.783,(3.5754)+(0.0005)Gly+(-0.0039)Ala+(-0.0015)Tyr+(-0.1610)Met+(-0.0009)Lys;0.676,0.727,0.678,0.679,0.642,0.807,0.660,0.697,(0.2026)+(0.0305)Ser+(-0.0048)Thr+(-0.0295)Val+(-0.0195)Lys+(0.0445)Leu;0.676,0.724,0.775,0.796,0.786,0.789,0.684,0.764,(4.5607)+(-0.0584)C

it+(0.0013)Arg+(-0.0047)Val+(-0.1625)Met+(0.0014)Lys;0.676,0.724,0.78
0,0.799,0.752,0.826,0.754,0.783,(3.8441)+(-0.1063)Asn+(0.0058)Thr+(-0
.0069)Ala+(0.0249)Orn+(-0.0071)Leu;0.676,0.714,0.699,0.695,0.708,0.75
3,0.652,0.702,(-0.1106)+(0.0391)Ser+(-0.0054)Gly+(-0.0134)Thr+(-0.064
2)Cit+(-0.0146)Arg;0.676,0.721,0.664,0.669,0.665,0.752,0.584,0.667,(-
1.8736)+(0.0373)Ser+(-0.0080)Thr+(-0.0210)Arg+(-0.0204)Lys+(0.0448)Ph
e;0.676,0.727,0.689,0.724,0.636,0.818,0.617,0.699,(0.7866)+(0.0236)Se
r+(-0.0024)Gln+(-0.0074)Ala+(-0.0386)Tyr+(0.0198)Orn;0.676,0.722,0.68
2,0.751,0.644,0.668,0.586,0.662,(0.4312)+(-0.0005)Gln+(-0.0765)Tyr+(0
.0208)Orn+(-0.0221)Leu+(0.0743)Phe;0.676,0.722,0.769,0.797,0.769,0.80
2,0.669,0.759,(5.2511)+(-0.0932)Asn+(0.0031)Gly+(-0.0615)Cit+(0.0015)
Arg+(-0.0088)Val;0.676,0.726,0.640,0.613,0.661,0.723,0.610,0.652,(-1.
8997)+(0.0360)Ser+(-0.0182)Thr+(-0.0753)Cit+(-0.0153)Arg+(0.0334)Ile;
0.676,0.721,0.722,0.735,0.748,0.747,0.616,0.712,(3.7443)+(-0.1194)Asn
+(0.0040)Gly+(0.0078)Thr+(-0.0784)Cit+(0.0027)Pro;0.676,0.719,0.773,0
.802,0.771,0.764,0.703,0.760,(4.3236)+(-0.0423)Asn+(-0.0050)Arg+(-0.0
105)Tyr+(-0.1353)Met+(0.0006)Lys;0.676,0.722,0.753,0.744,0.739,0.780,
0.784,0.762,(1.6772)+(-0.1113)Asn+(0.0042)Gln+(0.0133)Orn+(-0.0187)Ly
s+(0.0286)Ile;0.676,0.721,0.777,0.808,0.759,0.828,0.694,0.772,(4.1847
)+(0.0009)Gly+(-0.0063)Ala+(-0.0707)Cit+(-0.0206)Tyr+(-0.0026)Val;0.6
76,0.729,0.746,0.780,0.688,0.869,0.688,0.756,(0.7353)+(0.0282)Ser+(-0
.0053)Thr+(-0.0060)Ala+(-0.0042)Val+(-0.0114)Lys;0.676,0.723,0.654,0.
663,0.641,0.750,0.587,0.660,(-0.8453)+(0.0331)Ser+(-0.0029)Gln+(-0.01
35)Val+(-0.0197)Lys+(0.0620)Phe;0.676,0.723,0.803,0.849,0.782,0.812,0
.716,0.790,(2.3724)+(-0.0013)Gly+(0.0058)Gln+(-0.0135)Arg+(-0.0068)Va
l+(-0.1912)Met;0.676,0.722,0.778,0.819,0.766,0.788,0.690,0.766,(1.704
3)+(0.0054)Gln+(-0.0141)Arg+(-0.0075)Tyr+(-0.2137)Met+(0.0026)Leu;0.6
76,0.721,0.797,0.817,0.779,0.850,0.743,0.797,(2.7080)+(0.0006)Gly+(0.

0043)Gln+(-0.0078)Ala+(-0.0834)Cit+(-0.0102)Lys;0.676,0.725,0.717,0.762,0.716,0.736,0.587,0.700,(4.2609)+(-0.0976)Asn+(0.0129)Thr+(-0.0181)Arg+(-0.0493)Tyr+(0.0262)Orn;0.676,0.723,0.796,0.833,0.777,0.827,0.719,0.789,(4.1464)+(0.0004)Gly+(-0.0030)Ala+(-0.0067)Arg+(-0.0047)Val+(-0.1426)Met;0.676,0.722,0.733,0.809,0.702,0.714,0.611,0.709,(0.5080)+(0.0030)Gln+(-0.0244)Arg+(-0.0679)Tyr+(-0.0190)Leu+(0.0796)Phe;0.676,0.721,0.757,0.771,0.776,0.761,0.675,0.746,(4.0942)+(-0.0649)Cit+(0.0030)Arg+(-0.0059)Tyr+(-0.1811)Met+(0.0053)Leu;0.676,0.728,0.738,0.737,0.670,0.827,0.818,0.763,(-0.6742)+(0.0374)Ser+(-0.0068)Gly+(-0.0170)Thr+(-0.0088)Ala+(0.0189)Orn;0.676,0.723,0.794,0.829,0.770,0.826,0.731,0.789,(3.8803)+(0.0003)Gly+(-0.0031)Ala+(0.0010)Tyr+(-0.0048)Val+(-0.1550)Met;0.676,0.721,0.763,0.814,0.734,0.752,0.694,0.748,(2.7704)+(-0.1042)Asn+(0.0061)Gln+(-0.0159)Arg+(0.0054)Pro+(-0.0447)Tyr;0.676,0.731,0.693,0.739,0.687,0.795,0.511,0.683,(0.9933)+(0.0292)Ser+(0.0002)Thr+(-0.0191)Arg+(-0.0347)Tyr+(-0.0111)Lys;0.676,0.725,0.790,0.812,0.775,0.812,0.750,0.787,(3.6400)+(-0.0045)Ala+(-0.0055)Arg+(-0.1643)Met+(-0.0020)Lys+(0.0078)Leu;0.676,0.725,0.747,0.746,0.767,0.722,0.726,0.740,(2.8669)+(-0.1094)Asn+(-0.0717)Cit+(-0.0014)Arg+(0.0009)Pro+(0.0400)Phe;0.676,0.717,0.748,0.801,0.669,0.754,0.766,0.748,(0.6986)+(-0.0023)Gly+(0.0016)Gln+(-0.0083)Ala+(-0.0605)Tyr+(0.0628)Phe;0.676,0.731,0.695,0.742,0.687,0.799,0.514,0.685,(0.8970)+(0.0287)Ser+(0.0004)Gln+(-0.0194)Arg+(-0.0349)Tyr+(-0.0112)Lys;0.676,0.722,0.757,0.813,0.736,0.762,0.644,0.739,(3.0244)+(-0.1206)Asn+(0.0059)Gln+(0.0149)Thr+(-0.0201)Arg+(-0.0452)Tyr;0.676,0.734,0.728,0.745,0.670,0.849,0.716,0.745,(0.0532)+(0.0313)Ser+(-0.0067)Thr+(-0.0074)Ala+(-0.0158)Lys+(0.0081)Leu;0.676,0.724,0.822,0.850,0.779,0.851,0.818,0.824,(2.7946)+(-0.1027)Asn+(-0.0003)Gly+(0.0055)Gln+(-0.0061)Ala+(-0.0063)Lys;0.676,0.719,0.668,0.708,0.658,0.666,0.585,0.654,(1.1811)+(0.0009)Gly+(-0.0788)Ci

t+(0.0042)Pro+(-0.0755)Tyr+(0.0605)Phe;0.676,0.719,0.773,0.790,0.771,0.847,0.680,0.772,(3.9827)+(0.0012)Gly+(0.0093)Thr+(-0.0080)Ala+(-0.0806)Cit+(-0.0103)Lys;0.676,0.724,0.776,0.810,0.759,0.785,0.713,0.767,(1.6758)+(0.0048)Gln+(-0.0075)Tyr+(-0.2177)Met+(-0.0061)Lys+(0.0058)Leu;0.676,0.720,0.669,0.740,0.625,0.653,0.582,0.650,(0.2353)+(0.0052)Pro+(-0.0812)Tyr+(0.0177)Orn+(-0.0243)Leu+(0.0727)Phe;0.675,0.725,0.785,0.811,0.768,0.809,0.733,0.780,(3.4089)+(0.0010)Gly+(-0.0045)Ala+(-0.0068)Arg+(-0.1708)Met+(0.0072)Leu;0.675,0.724,0.690,0.725,0.685,0.747,0.566,0.681,(-2.0749)+(0.0332)Ser+(-0.0130)Thr+(-0.0292)Arg+(-0.0196)Leu+(0.0513)Phe;0.675,0.721,0.793,0.828,0.782,0.792,0.722,0.781,(4.9570)+(-0.0565)Asn+(-0.0062)Arg+(-0.0094)Val+(-0.1207)Met+(0.0061)Lys;0.675,0.725,0.703,0.662,0.764,0.795,0.618,0.710,(1.8209)+(-0.1152)Cit+(0.0002)Arg+(0.0523)Orn+(-0.0267)Lys+(0.0359)Phe;0.675,0.720,0.730,0.716,0.735,0.764,0.731,0.736,(2.9822)+(-0.0810)Asn+(-0.0115)Arg+(0.0201)Orn+(-0.0162)Lys+(0.0287)Ile;0.675,0.715,0.709,0.707,0.729,0.789,0.614,0.710,(2.0475)+(-0.0008)Gly+(-0.1007)Cit+(0.0019)Pro+(-0.0163)Val+(0.0482)Orn;0.675,0.722,0.775,0.799,0.778,0.780,0.703,0.765,(2.4609)+(-0.1400)Asn+(0.0070)Gln+(0.0085)Thr+(-0.0776)Cit+(-0.0084)Arg;0.675,0.721,0.819,0.849,0.775,0.841,0.814,0.820,(2.6596)+(-0.1133)Asn+(-0.0001)Gly+(0.0051)Gln+(-0.0063)Ala+(-0.0034)Leu;0.675,0.720,0.731,0.766,0.645,0.806,0.764,0.745,(3.1144)+(-0.0089)Ala+(0.0127)Pro+(-0.0347)Tyr+(-0.0265)Val+(0.0360)Leu;0.675,0.721,0.754,0.763,0.705,0.803,0.794,0.766,(1.4298)+(0.0003)Thr+(-0.0116)Ala+(0.0092)Pro+(-0.0160)Lys+(0.0404)Phe;0.675,0.716,0.671,0.692,0.650,0.724,0.623,0.672,(2.6784)+(0.0109)Thr+(-0.0173)Arg+(-0.0564)Tyr+(-0.0178)Lys+(0.0459)Ile;0.675,0.722,0.793,0.828,0.768,0.822,0.735,0.788,(3.8488)+(-0.0031)Ala+(0.0005)Tyr+(-0.0053)Val+(-0.1588)Met+(0.0017)Lys;0.675,0.725,0.703,0.662,0.764,0.796,0.618,0.710,(1.8235)+(0.0000)Thr+(-0.1150)Cit+(0.0523)Orn

+(-0.0267)Lys+(0.0359)Phe;0.675,0.719,0.764,0.800,0.747,0.824,0.662,0.758,(4.0976)+(0.0090)Thr+(-0.0068)Ala+(-0.0733)Cit+(-0.0279)Tyr+(-0.0030)Val;0.675,0.720,0.781,0.797,0.773,0.845,0.708,0.781,(3.9680)+(0.0019)Gly+(-0.0074)Ala+(-0.0791)Cit+(0.0024)Arg+(-0.0077)Lys;0.675,0.724,0.724,0.739,0.726,0.788,0.635,0.722,(0.1359)+(0.0342)Ser+(-0.0083)Gly+(-0.0331)Arg+(0.0168)Orn+(-0.0170)Leu;0.675,0.726,0.779,0.796,0.764,0.828,0.730,0.780,(4.4672)+(-0.0071)Ala+(-0.0724)Cit+(-0.0199)Tyr+(-0.0073)Lys+(0.0087)Leu;0.675,0.719,0.674,0.722,0.644,0.677,0.609,0.663,(1.3248)+(0.0084)Thr+(0.0036)Pro+(-0.0746)Tyr+(-0.0196)Lys+(0.0659)Phe;0.675,0.718,0.685,0.734,0.670,0.672,0.598,0.669,(0.4561)+(0.0023)Gln+(0.0029)Thr+(-0.0833)Cit+(-0.0772)Tyr+(0.0621)Phe;0.675,0.722,0.644,0.622,0.706,0.766,0.489,0.646,(0.4181)+(0.0220)Ser+(-0.0030)Gln+(-0.1081)Cit+(0.0387)Orn+(-0.0143)Leu;0.675,0.719,0.769,0.796,0.766,0.760,0.712,0.759,(4.1526)+(-0.0431)Asn+(-0.0108)Tyr+(-0.1428)Met+(-0.0010)Lys+(0.0024)Leu;0.675,0.718,0.734,0.789,0.659,0.746,0.738,0.733,(1.0819)+(-0.0024)Gly+(0.0056)Thr+(-0.0085)Ala+(-0.0633)Tyr+(0.0645)Phe;0.675,0.727,0.615,0.576,0.673,0.738,0.511,0.624,(-1.8750)+(0.0255)Ser+(-0.0916)Cit+(-0.0254)Arg+(0.0204)Orn+(0.0219)Ile;0.675,0.724,0.713,0.717,0.700,0.776,0.681,0.718,(0.4083)+(0.0437)Ser+(-0.0082)Gly+(-0.0056)Thr+(-0.0178)Arg+(-0.0164)Lys;0.675,0.716,0.764,0.785,0.756,0.783,0.712,0.759,(5.5926)+(-0.0939)Asn+(-0.0539)Cit+(-0.0004)Arg+(0.0080)Pro+(-0.0128)Val;0.675,0.721,0.695,0.722,0.648,0.735,0.692,0.699,(0.4455)+(0.0406)Ser+(-0.0095)Gly+(-0.0007)Gln+(-0.0083)Thr+(-0.0529)Tyr;0.675,0.720,0.762,0.810,0.730,0.749,0.709,0.750,(2.9770)+(-0.1299)Asn+(-0.0017)Gly+(0.0052)Gln+(0.0115)Thr+(-0.0481)Tyr;0.675,0.724,0.816,0.854,0.780,0.827,0.784,0.811,(3.3706)+(-0.1275)Asn+(-0.0004)Gly+(0.0059)Gln+(-0.0130)Val+(-0.0010)Lys;0.675,0.719,0.792,0.841,0.757,0.778,0.746,0.780,(3.0018)+(-0.1122)Asn+(-0.0012)Gly+(0.0059)Gln+(-0.03

72)Tyr+(-0.0063)Leu;0.675,0.717,0.695,0.715,0.652,0.735,0.702,0.701,(1.7233)+(0.0020)Gln+(-0.0009)Pro+(-0.0538)Tyr+(-0.0209)Lys+(0.0471)Ile;0.675,0.716,0.764,0.786,0.756,0.782,0.713,0.759,(5.5613)+(-0.0962)Asn+(-0.0542)Cit+(0.0080)Pro+(-0.0131)Val+(0.0009)Lys;0.675,0.722,0.819,0.863,0.789,0.831,0.758,0.810,(3.4194)+(-0.1172)Asn+(-0.0004)Gly+(0.0067)Gln+(-0.0140)Arg+(-0.0127)Val;0.675,0.716,0.703,0.700,0.727,0.787,0.597,0.703,(2.2673)+(-0.0009)Gln+(-0.1010)Cit+(0.0021)Pro+(-0.0162)Val+(0.0492)Orn;0.675,0.723,0.776,0.798,0.786,0.790,0.684,0.765,(4.6037)+(-0.0572)Cit+(-0.0015)Tyr+(-0.0048)Val+(-0.1593)Met+(0.0017)Lys;0.675,0.735,0.684,0.728,0.661,0.801,0.531,0.680,(1.1283)+(0.0220)Ser+(-0.0365)Tyr+(-0.0081)Val+(0.0276)Orn+(-0.0151)Lys;0.675,0.727,0.726,0.773,0.706,0.728,0.643,0.712,(4.4979)+(-0.1059)Asn+(0.0117)Thr+(0.0067)Pro+(-0.0464)Tyr+(-0.0086)Leu;0.675,0.721,0.796,0.834,0.775,0.819,0.722,0.788,(4.0983)+(-0.0030)Ala+(-0.0083)Arg+(-0.0057)Val+(-0.1504)Met+(0.0035)Lys;0.675,0.719,0.760,0.804,0.705,0.817,0.719,0.761,(3.3739)+(-0.0034)Gly+(-0.0055)Ala+(-0.0370)Tyr+(-0.0103)Val+(0.0340)Orn;0.675,0.719,0.706,0.725,0.660,0.735,0.729,0.712,(1.9275)+(-0.0021)Gly+(0.0025)Gln+(-0.0559)Tyr+(-0.0205)Lys+(0.0449)Ile;0.675,0.718,0.700,0.759,0.672,0.698,0.605,0.683,(1.3034)+(0.0093)Thr+(-0.0714)Tyr+(-0.0158)Lys+(-0.0119)Leu+(0.0804)Phe;0.675,0.717,0.727,0.780,0.696,0.697,0.675,0.712,(1.7649)+(-0.0017)Gly+(-0.0657)Tyr+(-0.0116)Lys+(-0.0124)Leu+(0.0781)Phe;0.675,0.720,0.765,0.782,0.783,0.773,0.675,0.753,(4.3915)+(-0.0635)Cit+(0.0033)Arg+(-0.0044)Tyr+(-0.1635)Met+(-0.0015)Lys;0.675,0.722,0.730,0.744,0.748,0.754,0.635,0.720,(3.7676)+(-0.1043)Asn+(0.0044)Gly+(-0.0757)Cit+(-0.0007)Arg+(0.0037)Pro;0.675,0.720,0.799,0.819,0.780,0.849,0.747,0.799,(2.7362)+(0.0045)Gln+(-0.0078)Ala+(-0.0815)Cit+(-0.0015)Arg+(-0.0099)Lys;0.675,0.724,0.695,0.728,0.657,0.698,0.685,0.692,(3.2305)+(-0.1072

)Asn+(0.0108)Thr+(0.0012)Pro+(-0.0587)Tyr+(0.0329)Ile;0.674,0.716,0.648,0.612,0.654,0.713,0.684,0.666,(-2.0250)+(0.0399)Ser+(-0.0037)Gly+(-0.0227)Thr+(-0.0822)Cit+(0.0304)Ile;0.674,0.723,0.802,0.844,0.761,0.829,0.758,0.798,(5.2473)+(-0.0830)Asn+(-0.0034)Ala+(-0.0169)Tyr+(-0.0084)Val+(0.0027)Lys;0.674,0.719,0.765,0.792,0.741,0.796,0.718,0.762,(1.0250)+(-0.0092)Ala+(-0.0253)Arg+(0.0246)Orn+(-0.0158)Leu+(0.0500)Phe;0.674,0.711,0.775,0.794,0.754,0.824,0.737,0.777,(2.1549)+(0.0007)Gly+(0.0028)Gln+(0.0009)Thr+(-0.0094)Ala+(-0.0866)Cit;0.674,0.720,0.702,0.744,0.666,0.687,0.678,0.694,(1.7525)+(-0.0016)Gly+(0.0044)Pro+(-0.0702)Tyr+(-0.0161)Lys+(0.0629)Phe;0.674,0.717,0.782,0.801,0.772,0.845,0.704,0.781,(4.0642)+(0.0017)Gly+(-0.0070)Ala+(-0.0748)Cit+(-0.0017)Val+(-0.0063)Lys;0.674,0.712,0.669,0.652,0.676,0.707,0.673,0.677,(-1.9419)+(0.0395)Ser+(-0.0041)Gly+(-0.0211)Thr+(-0.0819)Cit+(0.0283)Phe;0.674,0.723,0.818,0.864,0.786,0.831,0.752,0.808,(3.3675)+(-0.1206)Asn+(0.0066)Gln+(-0.0148)Arg+(-0.0132)Val+(0.0019)Lys;0.674,0.714,0.782,0.804,0.762,0.828,0.733,0.782,(2.1939)+(0.0006)Gly+(0.0035)Gln+(-0.0089)Ala+(-0.0803)Cit+(-0.0075)Arg;0.674,0.725,0.821,0.849,0.777,0.851,0.815,0.823,(2.7759)+(-0.1032)Asn+(0.0054)Gln+(-0.0061)Ala+(-0.0062)Lys+(-0.0002)Leu;0.674,0.717,0.690,0.742,0.658,0.695,0.618,0.678,(0.8904)+(0.0014)Gln+(0.0082)Thr+(-0.0721)Tyr+(-0.0201)Lys+(0.0671)Phe;0.674,0.710,0.676,0.684,0.668,0.728,0.633,0.679,(-1.5173)+(0.0310)Ser+(-0.0157)Thr+(-0.0749)Cit+(-0.0132)Val+(0.0555)Phe;0.674,0.725,0.797,0.844,0.779,0.818,0.693,0.784,(2.2931)+(0.0056)Gln+(-0.0135)Arg+(-0.0020)Tyr+(-0.0066)Val+(-0.1895)Met;0.674,0.724,0.780,0.804,0.759,0.805,0.742,0.777,(3.1952)+(0.0008)Gly+(-0.0046)Ala+(-0.0022)Tyr+(-0.1785)Met+(0.0074)Leu;0.674,0.720,0.747,0.746,0.762,0.753,0.712,0.743,(2.6235)+(-0.0946)Asn+(-0.0122)Arg+(0.0237)Orn+(-0.0137)Lys+(0.0350)Phe;0.674,0.721,0.788,0.824,0.778,0.802,0.705,0.777,(4.9021)+(-0.0531)Asn+(0.

0012)Gly+(-0.0039)Arg+(-0.0077)Val+(-0.1111)Met;0.674,0.724,0.754,0.795,0.709,0.829,0.683,0.754,(3.3005)+(-0.0054)Ala+(-0.0297)Tyr+(-0.0079)Val+(0.0355)Orn+(-0.0091)Lys;0.674,0.722,0.709,0.714,0.701,0.774,0.669,0.714,(0.4090)+(0.0417)Ser+(-0.0084)Gly+(0.0003)Gln+(-0.0201)Arg+(-0.0183)Lys;0.674,0.721,0.786,0.813,0.771,0.833,0.712,0.783,(4.6353)+(-0.0060)Ala+(-0.0684)Cit+(-0.0181)Tyr+(-0.0016)Val+(-0.0043)Lys;0.674,0.728,0.739,0.787,0.668,0.858,0.674,0.747,(0.8176)+(0.0249)Ser+(-0.0065)Thr+(-0.0056)Ala+(-0.0251)Tyr+(-0.0054)Val;0.674,0.719,0.713,0.745,0.684,0.753,0.658,0.710,(3.6720)+(-0.0599)Cit+(0.0076)Pro+(-0.0452)Tyr+(-0.0235)Val+(0.0280)Leu;0.674,0.720,0.799,0.822,0.779,0.850,0.746,0.799,(2.8026)+(0.0044)Gln+(-0.0076)Ala+(-0.0810)Cit+(-0.0014)Val+(-0.0096)Lys;0.674,0.711,0.757,0.771,0.743,0.817,0.706,0.759,(2.9292)+(0.0016)Gly+(0.0033)Thr+(-0.0095)Ala+(-0.0848)Cit+(0.0033)Leu;0.674,0.731,0.715,0.725,0.667,0.846,0.690,0.732,(0.4097)+(0.0302)Ser+(-0.0011)Gln+(-0.0077)Ala+(-0.0174)Lys+(0.0081)Leu;0.674,0.711,0.775,0.791,0.752,0.821,0.747,0.778,(2.1164)+(0.0029)Gln+(0.0010)Thr+(-0.0097)Ala+(-0.0869)Cit+(0.0021)Leu;0.674,0.722,0.791,0.823,0.773,0.817,0.725,0.784,(3.7620)+(0.0007)Gly+(-0.0039)Ala+(-0.0070)Arg+(-0.0012)Tyr+(-0.1536)Met;0.674,0.718,0.667,0.699,0.685,0.737,0.497,0.655,(-1.4530)+(0.0302)Ser+(-0.0019)Gln+(-0.0340)Arg+(-0.0216)Leu+(0.0507)Phe;0.674,0.724,0.768,0.797,0.765,0.768,0.697,0.756,(5.2610)+(-0.0754)Asn+(-0.0630)Cit+(0.0025)Arg+(-0.0293)Tyr+(-0.0016)Leu;0.674,0.720,0.756,0.768,0.704,0.805,0.798,0.769,(1.0946)+(0.0010)Gln+(-0.0116)Ala+(0.0089)Pro+(-0.0167)Lys+(0.0394)Phe;0.674,0.717,0.763,0.783,0.721,0.815,0.758,0.769,(4.0866)+(-0.0068)Ala+(-0.0628)Cit+(-0.0223)Tyr+(-0.0210)Val+(0.0363)Leu;0.674,0.714,0.780,0.802,0.761,0.826,0.728,0.779,(2.2473)+(0.0034)Gln+(0.0031)Thr+(-0.0092)Ala+(-0.0798)Cit+(-0.0089)Arg;0.674,0.726,0.747,0.751,0.771,0.772,0.666,0.740,(4.7491)+(-0.0981)Asn+(0.0131)

Thr+(-0.0719)Cit+(0.0027)Pro+(-0.0102)Lys;0.674,0.719,0.684,0.735,0.670,0.700,0.563,0.667,(1.6741)+(0.0152)Thr+(-0.0200)Arg+(-0.0723)Tyr+(-0.0159)Lys+(0.0709)Phe;0.674,0.720,0.744,0.755,0.704,0.799,0.759,0.754,(0.8756)+(-0.0127)Ala+(-0.0245)Arg+(0.0082)Pro+(0.0157)Orn+(0.0300)Phe;0.674,0.724,0.715,0.723,0.705,0.780,0.667,0.719,(0.6488)+(0.0416)Ser+(-0.0084)Gly+(-0.0202)Arg+(-0.0169)Lys+(-0.0027)Leu;0.674,0.722,0.750,0.788,0.720,0.811,0.667,0.747,(3.4648)+(-0.0062)Ala+(-0.0156)Arg+(-0.0320)Tyr+(0.0345)Orn+(-0.0089)Lys;0.674,0.731,0.673,0.672,0.615,0.800,0.710,0.699,(-1.3612)+(0.0274)Ser+(-0.0040)Gln+(-0.0115)Ala+(0.0088)Orn+(0.0373)Phe;0.674,0.719,0.771,0.799,0.770,0.761,0.704,0.759,(4.2568)+(-0.0410)Asn+(-0.0048)Arg+(-0.0106)Tyr+(-0.1392)Met+(0.0018)Leu;0.674,0.719,0.755,0.791,0.745,0.780,0.665,0.745,(5.3252)+(-0.1157)Asn+(0.0144)Thr+(-0.0146)Arg+(0.0077)Pro+(-0.0167)Val;0.674,0.721,0.664,0.705,0.656,0.656,0.579,0.649,(1.1945)+(0.0045)Thr+(-0.0793)Cit+(0.0039)Pro+(-0.0796)Tyr+(0.0602)Phe;0.673,0.725,0.706,0.671,0.762,0.796,0.621,0.713,(1.1991)+(0.0018)Gln+(-0.1174)Cit+(0.0505)Orn+(-0.0279)Lys+(0.0354)Phe;0.673,0.722,0.685,0.661,0.723,0.777,0.605,0.691,(-0.1680)+(0.0252)Ser+(-0.0057)Gly+(-0.1039)Cit+(0.0346)Orn+(-0.0163)Leu;0.673,0.712,0.772,0.790,0.749,0.823,0.739,0.775,(2.0468)+(0.0009)Gly+(0.0028)Gln+(-0.0097)Ala+(-0.0877)Cit+(0.0025)Leu;0.673,0.723,0.713,0.760,0.706,0.719,0.602,0.697,(4.4871)+(-0.0966)Asn+(0.0158)Thr+(-0.0164)Arg+(0.0058)Pro+(-0.0505)Tyr;0.673,0.716,0.731,0.788,0.653,0.752,0.731,0.731,(0.4816)+(0.0006)Gln+(0.0028)Thr+(-0.0086)Ala+(-0.0607)Tyr+(0.0640)Phe;0.673,0.720,0.754,0.749,0.737,0.776,0.787,0.762,(1.5668)+(-0.1128)Asn+(0.0010)Gly+(0.0045)Gln+(-0.0172)Lys+(0.0327)Ile;0.673,0.724,0.701,0.775,0.687,0.688,0.546,0.674,(1.2802)+(0.0115)Thr+(-0.0269)Arg+(-0.0737)Tyr+(-0.0196)Leu+(0.0841)Phe;0.673,0.719,0.643,0.689,0.584,0.736,0.579,0.647,(0.5625)+(0.0199)Ser+(0.0070)Pro+(-0.0517)Ty

r+(-0.0276)Val+(0.0318)Leu;0.673,0.725,0.721,0.775,0.711,0.796,0.546,0.707,(3.3713)+(0.0048)Thr+(-0.0251)Arg+(-0.0418)Tyr+(-0.0133)Val+(0.0357)Orn;0.673,0.715,0.748,0.759,0.676,0.834,0.810,0.770,(2.0801)+(-0.0022)Gly+(-0.0084)Ala+(-0.0329)Val+(0.0286)Orn+(0.0412)Leu;0.673,0.719,0.738,0.738,0.747,0.746,0.715,0.736,(2.1998)+(-0.1081)Asn+(0.0016)Gly+(0.0207)Orn+(-0.0154)Lys+(0.0365)Phe;0.673,0.717,0.770,0.797,0.761,0.738,0.742,0.759,(1.1799)+(-0.1495)Asn+(0.0040)Gln+(0.0173)Orn+(-0.0238)Leu+(0.0512)Phe;0.673,0.723,0.775,0.796,0.787,0.792,0.682,0.764,(4.6273)+(-0.0590)Cit+(0.0021)Arg+(-0.0014)Tyr+(-0.0043)Val+(-0.1568)Met;0.673,0.720,0.671,0.653,0.652,0.733,0.714,0.688,(-1.6950)+(0.0467)Ser+(-0.0080)Gly+(-0.0116)Thr+(-0.0242)Lys+(0.0396)Phe;0.673,0.722,0.785,0.809,0.769,0.833,0.716,0.782,(4.5706)+(-0.0064)Ala+(-0.0722)Cit+(0.0026)Arg+(-0.0187)Tyr+(-0.0056)Lys;0.673,0.720,0.707,0.741,0.657,0.746,0.696,0.710,(0.5242)+(0.0393)Ser+(-0.0097)Gly+(-0.0082)Thr+(-0.0507)Tyr+(-0.0040)Leu;0.673,0.730,0.688,0.731,0.681,0.789,0.514,0.679,(0.8720)+(0.0297)Ser+(-0.0186)Arg+(-0.0356)Tyr+(-0.0121)Lys+(0.0025)Leu;0.673,0.715,0.783,0.802,0.762,0.825,0.745,0.784,(2.1684)+(0.0036)Gln+(-0.0092)Ala+(-0.0804)Cit+(-0.0074)Arg+(0.0017)Leu;0.673,0.722,0.690,0.759,0.649,0.677,0.605,0.672,(0.3482)+(-0.0029)Thr+(-0.0748)Tyr+(0.0216)Orn+(-0.0220)Leu+(0.0733)Phe;0.673,0.716,0.679,0.697,0.641,0.721,0.682,0.685,(2.6319)+(-0.0018)Gly+(0.0075)Thr+(-0.0587)Tyr+(-0.0209)Lys+(0.0458)Ile;0.673,0.724,0.721,0.760,0.654,0.836,0.675,0.731,(0.5340)+(0.0277)Ser+(-0.0009)Gln+(-0.0076)Thr+(-0.0064)Ala+(-0.0286)Tyr;0.673,0.718,0.675,0.691,0.657,0.798,0.582,0.682,(0.8070)+(0.0278)Ser+(-0.0018)Gln+(-0.0256)Arg+(-0.0312)Val+(0.0370)Leu;0.673,0.718,0.775,0.815,0.752,0.772,0.719,0.765,(1.5830)+(-0.0011)Gly+(0.0047)Gln+(-0.0095)Tyr+(-0.2272)Met+(0.0025)Leu;0.673,0.718,0.705,0.704,0.678,0.773,0.717,0.718,(1.1863)+(-0.0331)Val+(0.0298)Orn+(-0.0199)Lys+(0.0360

)Leu+(0.0341)Phe;0.673,0.719,0.743,0.747,0.703,0.813,0.766,0.757,(2.3895)+(-0.0034)Thr+(-0.0107)Ala+(0.0093)Pro+(0.0240)Orn+(-0.0150)Lys;0.673,0.718,0.791,0.828,0.778,0.799,0.718,0.781,(5.1177)+(-0.0516)Asn+(-0.0036)Arg+(-0.0043)Tyr+(-0.0075)Val+(-0.1032)Met;0.673,0.728,0.742,0.768,0.675,0.860,0.725,0.757,(0.0355)+(0.0250)Ser+(-0.0147)Thr+(-0.0071)Ala+(-0.0094)Val+(0.0262)Orn;0.673,0.725,0.722,0.768,0.658,0.857,0.633,0.729,(1.2246)+(0.0232)Ser+(-0.0011)Gln+(-0.0058)Ala+(-0.0282)Tyr+(-0.0058)Val;0.673,0.719,0.729,0.776,0.688,0.711,0.705,0.720,(1.0522)+(-0.0026)Gly+(0.0027)Gln+(-0.0686)Tyr+(-0.0172)Lys+(0.0636)Phe;0.672,0.720,0.792,0.824,0.773,0.812,0.731,0.785,(3.8448)+(-0.0039)Ala+(-0.0070)Arg+(-0.0022)Tyr+(-0.1523)Met+(0.0005)Lys;0.672,0.718,0.745,0.748,0.706,0.812,0.770,0.759,(2.5397)+(-0.0014)Gly+(-0.0108)Ala+(0.0090)Pro+(0.0232)Orn+(-0.0159)Lys;0.672,0.716,0.757,0.772,0.726,0.802,0.750,0.762,(0.8145)+(-0.0000)Gly+(-0.0106)Ala+(-0.0244)Arg+(0.0194)Orn+(0.0347)Phe;0.672,0.726,0.786,0.808,0.766,0.811,0.753,0.784,(3.5185)+(-0.0045)Ala+(-0.0025)Tyr+(-0.1663)Met+(-0.0033)Lys+(0.0087)Leu;0.672,0.717,0.744,0.787,0.726,0.795,0.632,0.735,(3.9975)+(-0.0033)Gly+(-0.0213)Arg+(-0.0416)Tyr+(-0.0132)Val+(0.0398)Orn;0.672,0.720,0.749,0.801,0.690,0.824,0.680,0.748,(2.5896)+(0.0003)Gln+(-0.0059)Ala+(-0.0346)Tyr+(-0.0100)Val+(0.0308)Orn;0.672,0.725,0.715,0.726,0.633,0.829,0.771,0.740,(-0.6250)+(0.0310)Ser+(-0.0183)Thr+(-0.0112)Ala+(0.0129)Pro+(-0.0042)Leu;0.672,0.715,0.753,0.786,0.733,0.775,0.693,0.747,(4.9100)+(-0.1273)Asn+(0.0004)Gly+(0.0108)Thr+(0.0074)Pro+(-0.0167)Val;0.672,0.723,0.587,0.639,0.539,0.628,0.515,0.581,(-2.4411)+(0.0233)Ser+(0.0031)Pro+(-0.0872)Tyr+(0.0020)Orn+(0.0536)Phe;0.672,0.722,0.803,0.844,0.768,0.833,0.748,0.798,(5.4097)+(-0.0727)Asn+(-0.0032)Ala+(-0.0052)Arg+(-0.0149)Tyr+(-0.0075)Val;0.672,0.712,0.765,0.780,0.754,0.820,0.709,0.766,(3.1412)+(0.0020)Gly+(-0.0090)Ala+(-0.0802)Cit+(-0.0030)Arg+

(0.0036)Leu;0.672,0.720,0.772,0.795,0.752,0.812,0.720,0.770,(4.0218)+(-0.0074)Ala+(-0.0732)Cit+(-0.0008)Arg+(-0.0247)Tyr+(0.0050)Leu;0.672,0.720,0.703,0.745,0.682,0.706,0.633,0.691,(3.7656)+(-0.1107)Asn+(0.0082)Thr+(0.0042)Pro+(-0.0540)Tyr+(0.0213)Orn;0.672,0.720,0.725,0.713,0.720,0.751,0.750,0.733,(1.9695)+(-0.1011)Asn+(0.0027)Gly+(-0.0172)Lys+(0.0291)Ile+(0.0269)Phe;0.672,0.723,0.659,0.629,0.657,0.738,0.686,0.677,(-1.5702)+(0.0420)Ser+(-0.0088)Gly+(0.0148)Orn+(-0.0306)Lys+(0.0327)Phe;0.672,0.723,0.656,0.704,0.631,0.774,0.498,0.652,(1.3981)+(0.0208)Ser+(-0.0028)Gln+(-0.0442
)Tyr+(-0.0115)Val+(0.0254)Orn;0.672,0.718,0.736,0.747,0.665,0.834,0.783,0.757,(2.1586)+(-0.0011)Gln+(-0.0084)Ala+(-0.0332)Val+(0.0291)Orn+(0.0424)Leu;0.672,0.717,0.739,0.788,0.709,0.740,0.671,0.727,(2.7430)+(-0.1300)Asn+(0.0041)Gln+(0.0075)Thr+(-0.0498)Tyr+(0.0189)Orn;0.672,0.726,0.708,0.753,0.650,0.770,0.663,0.709,(2.2615)+(-0.0020)Thr+(-0.0470)Tyr+(-0.0304)Val+(0.0302)Orn+(0.0342)Leu;0.672,0.718,0.718,0.704,0.714,0.759,0.729,0.727,(2.5609)+(-0.0939)Asn+(0.0017)Gly+(0.0168)Orn+(-0.0179)Lys+(0.0305)Ile;0.672,0.718,0.761,0.786,0.765,0.769,0.677,0.749,(3.3152)+(0.0009)Gly+(-0.0070)Arg+(-0.1959)Met+(-0.0022)Lys+(0.0044)Leu;0.672,0.714,0.761,0.778,0.727,0.807,0.754,0.767,(0.4590)+(0.0011)Gln+(-0.0107)Ala+(-0.0256)Arg+(0.0182)Orn+(0.0338)Phe;0.672,0.729,0.702,0.702,0.623,0.817,0.785,0.732,(-1.1509)+(0.0314)Ser+(-0.0218)Thr+(-0.0119)Ala+(0.0116)Pro+(0.0147)Orn;0.672,0.723,0.761,0.811,0.732,0.771,0.682,0.749,(3.1613)+(-0.1207)Asn+(0.0052)Gln+(0.0129)Thr+(-0.0416)Tyr+(-0.0084)Lys;0.672,0.722,0.707,0.761,0.692,0.691,0.606,0.687,(0.4257)+(0.0036)Gln+(-0.0731)Cit+(-0.0128)Arg+(-0.0725)Tyr+(0.0639)Phe;0.672,0.727,0.737,0.766,0.686,0.869,0.667,0.747,(1.0130)+(0.0270)Ser+(-0.0007)Gln+(-0.0062)Ala+(-0.0045)Val+(-0.0126)Lys;0.672,0.709,0.708,0.712,0.725,0.768,0.615,0.705,(0.6737)+(0.0337)Ser+(-0.0063)Gly+(

-0.0595)Cit+(-0.0206)Arg+(-0.0103)Leu;0.672,0.721,0.752,0.772,0.768,0.783,0.643,0.742,(4.5172)+(-0.0857)Asn+(0.0038)Gly+(-0.0711)Cit+(-0.0052)Lys+(-0.0014)Leu;0.672,0.714,0.716,0.763,0.704,0.745,0.598,0.702,(2.3779)+(0.0028)Gln+(-0.0767)Cit+(0.0066)Pro+(-0.0532)Tyr+(-0.0077)Leu;0.672,0.721,0.756,0.767,0.778,0.782,0.661,0.747,(4.9618)+(-0.0980)Asn+(0.0139)Thr+(-0.0704)Cit+(-0.0087)Lys+(-0.0025)Leu;0.672,0.722,0.753,0.762,0.776,0.780,0.664,0.745,(4.8729)+(-0.0977)Asn+(0.0140)Thr+(-0.0715)Cit+(0.0002)Arg+(-0.0097)Lys;0.672,0.722,0.727,0.747,0.754,0.751,0.602,0.714,(3.9894)+(-0.1154)Asn+(0.0036)Gly+(0.0099)Thr+(-0.0744)Cit+(-0.0037)Arg;0.672,0.715,0.717,0.714,0.772,0.789,0.560,0.709,(2.0880)+(0.0002)Gly+(-0.0961)Cit+(-0.0161)Arg+(0.0447)Orn+(-0.0169)Leu;0.672,0.712,0.721,0.757,0.652,0.779,0.730,0.729,(2.6577)+(-0.0028)Gly+(-0.0102)Ala+(0.0112)Pro+(-0.0493)Tyr+(0.0204)Orn;0.672,0.722,0.768,0.792,0.768,0.776,0.698,0.759,(5.3424)+(-0.0712)Asn+(-0.0646)Cit+(0.0047)Arg+(-0.0276)Tyr+(-0.0037)Lys;0.672,0.706,0.686,0.677,0.688,0.736,0.668,0.692,(-0.4698)+(0.0382)Ser+(-0.0050)Gly+(-0.0001)Gln+(-0.0176)Thr+(-0.0755)Cit;0.672,0.720,0.766,0.769,0.762,0.764,0.765,0.765,(1.2810)+(-0.1248)Asn+(0.0043)Gln+(0.0171)Orn+(-0.0163)Lys+(0.0339)Phe;0.671,0.708,0.644,0.629,0.661,0.704,0.608,0.651,(-1.8811)+(0.0359)Ser+(-0.0014)Gln+(-0.0204)Thr+(-0.0850)Cit+(0.0336)Phe;0.671,0.723,0.767,0.763,0.746,0.787,0.809,0.776,(1.6289)+(-0.1092)Asn+(0.0049)Gln+(-0.0029)Pro+(-0.0175)Lys+(0.0362)Ile;0.671,0.716,0.756,0.785,0.693,0.800,0.779,0.764,(1.5859)+(-0.0101)Ala+(0.0104)Pro+(-0.0121)Val+(-0.0109)Lys+(0.0534)Phe;0.671,0.721,0.660,0.656,0.595,0.809,0.701,0.690,(-0.0920)+(0.0262)Ser+(-0.0039)Gln+(-0.0126)Ala+(0.0102)Pro+(0.0088)Orn;0.671,0.721,0.798,0.834,0.777,0.826,0.725,0.791,(4.2024)+(-0.0030)Ala+(-0.0066)Arg+(0.0008)Tyr+(-0.0048)Val+(-0.1428)Met;0.671,0.720,0.763,0.809,0.729,0.760,0.716,0.753,(2.9250)+(-0.1054)Asn+(0.0055)Gln+(0.005

4)Pro+(-0.0425)Tyr+(-0.0070)Lys;0.671,0.719,0.717,0.753,0.693,0.764,0.637,0.712,(3.4908)+(0.0068)Thr+(-0.0623)Cit+(-0.0435)Tyr+(-0.0237)Val+(0.0319)Leu;0.671,0.713,0.636,0.605,0.646,0.717,0.641,0.652,(-2.1591)+(0.0350)Ser+(-0.0222)Thr+(-0.0869)Cit+(-0.0022)Pro+(0.0352)Ile;0.671,0.723,0.770,0.797,0.772,0.775,0.693,0.759,(5.3695)+(-0.0689)Asn+(-0.0610)Cit+(-0.0274)Tyr+(-0.0028)Lys+(-0.0001)Leu;0.671,0.720,0.782,0.811,0.764,0.826,0.708,0.778,(4.4022)+(-0.0061)Ala+(-0.0671)Cit+(-0.0018)Arg+(-0.0207)Tyr+(-0.0028)Val;0.671,0.718,0.737,0.788,0.704,0.724,0.680,0.724,(2.7935)+(-0.1304)Asn+(0.0046)Gln+(0.0095)Thr+(0.0045)Pro+(-0.0511)Tyr;0.671,0.708,0.648,0.633,0.659,0.704,0.620,0.654,(-2.2628)+(0.0348)Ser+(-0.0221)Thr+(-0.0874)Cit+(0.0015)Pro+(0.0299)Phe;0.671,0.720,0.749,0.767,0.763,0.783,0.650,0.741,(4.4406)+(-0.0881)Asn+(0.0039)Gly+(-0.0752)Cit+(0.0045)Arg+(-0.0067)Lys;0.671,0.715,0.726,0.773,0.705,0.759,0.621,0.714,(2.8322)+(0.0026)Gln+(-0.0694)Cit+(0.0080)Pro+(-0.0478)Tyr+(-0.0096)Val;0.671,0.717,0.729,0.725,0.775,0.792,0.600,0.723,(2.3258)+(-0.0064)Thr+(-0.0972)Cit+(-0.0126)Arg+(0.0481)Orn+(-0.0163)Leu;0.671,0.714,0.718,0.760,0.699,0.719,0.644,0.706,(3.9623)+(-0.1089)Asn+(-0.0009)Gly+(0.0095)Thr+(-0.0508)Tyr+(0.0234)Orn;0.671,0.713,0.622,0.584,0.638,0.710,0.624,0.639,(-1.7320)+(0.0371)Ser+(-0.0018)Gln+(-0.0216)Thr+(-0.0836)Cit+(0.0337)Ile;0.671,0.719,0.808,0.845,0.776,0.845,0.753,0.805,(5.0703)+(-0.0803)Asn+(0.0011)Gly+(-0.0037)Ala+(-0.0063)Arg+(-0.0086)Val;0.671,0.713,0.670,0.715,0.663,0.662,0.573,0.653,(1.1708)+(0.0003)Gly+(0.0052)Thr+(-0.0793)Cit+(-0.0759)Tyr+(0.0633)Phe;0.671,0.706,0.678,0.665,0.682,0.729,0.666,0.685,(-0.7597)+(0.0387)Ser+(-0.0049)Gly+(-0.0195)Thr+(-0.0768)Cit+(0.0028)Pro;0.671,0.716,0.660,0.636,0.652,0.727,0.692,0.677,(-1.5519)+(0.0430)Ser+(-0.0086)Gly+(0.0011)Pro+(-0.0287)Lys+(0.0351)Phe;0.671,0.715,0.757,0.775,0.706,0.798,0.783,0.766,(1.4215)+(-0.0112)Ala+(0.0097)Pro+(-0.0141)Ly

s+(-0.0080)Leu+(0.0467)Phe;0.671,0.713,0.631,0.598,0.642,0.706,0.641,0.647,(-2.6983)+(0.0361)Ser+(-0.0240)Thr+(-0.0889)Cit+(0.0286)Ile+(0.0136)Phe;0.671,0.718,0.749,0.773,0.761,0.772,0.643,0.737,(4.3303)+(-0.0961)Asn+(0.0037)Gly+(-0.0716)Cit+(0.0005)Arg+(-0.0046)Leu;0.671,0.716,0.683,0.739,0.645,0.737,0.577,0.675,(2.5824)+(-0.0007)Gln+(0.0073)Pro+(-0.0520)Tyr+(-0.0149)Val+(0.0278)Orn;0.671,0.728,0.696,0.743,0.654,0.794,0.588,0.694,(0.4589)+(0.0229)Ser+(-0.0125)Thr+(-0.0393)Tyr+(-0.0109)Val+(0.0267)Orn;0.671,0.720,0.708,0.729,0.656,0.856,0.654,0.724,(0.9215)+(0.0220)Ser+(-0.0029)Gln+(-0.0076)Ala+(-0.0107)Val+(0.0234)Orn;0.671,0.718,0.807,0.843,0.768,0.841,0.765,0.804,(4.8963)+(-0.0904)Asn+(0.0010)Gly+(-0.0040)Ala+(-0.0093)Val+(0.0016)Lys;0.671,0.712,0.693,0.726,0.676,0.790,0.570,0.690,(0.3268)+(0.0293)Ser+(-0.0095)Thr+(-0.0257)Arg+(0.0074)Pro+(-0.0140)Val;0.671,0.723,0.712,0.710,0.640,0.804,0.799,0.738,(-1.8358)+(0.0306)Ser+(-0.0069)Gly+(-0.0117)Ala+(0.0056)Orn+(0.0289)Phe;0.670,0.718,0.680,0.720,0.617,0.777,0.639,0.688,(0.4440)+(0.0246)Ser+(-0.0080)Thr+(-0.0388)Tyr+(-0.0265)Val+(0.0352)Leu;0.670,0.713,0.752,0.800,0.711,0.812,0.672,0.749,(2.2552)+(0.0022)Gln+(-0.0071)Ala+(-0.0228)Arg+(-0.0383)Tyr+(0.0277)Orn;0.670,0.711,0.764,0.783,0.755,0.824,0.687,0.762,(3.2479)+(0.0013)Gly+(0.0053)Thr+(-0.0089)Ala+(-0.0782)Cit+(-0.0060)Arg;0.670,0.719,0.692,0.718,0.608,0.786,0.729,0.710,(-2.0187)+(0.0218)Ser+(-0.0129)Ala+(0.0096)Pro+(-0.0143)Leu+(0.0421)Phe;0.670,0.719,0.780,0.782,0.769,0.836,0.757,0.786,(4.0255)+(-0.0084)Ala+(-0.0815)Cit+(0.0056)Arg+(-0.0108)Lys+(0.0091)Leu;0.670,0.716,0.757,0.808,0.717,0.730,0.722,0.744,(2.7235)+(-0.1148)Asn+(-0.0009)Gly+(0.0053)Gln+(0.0050)Pro+(-0.0478)Tyr;0.670,0.716,0.687,0.658,0.710,0.775,0.653,0.699,(1.1280)+(0.0027)Gly+(0.0028)Gln+(-0.0928)Cit+(-0.0264)Lys+(0.0463)Ile;0.670,0.717,0.718,0.766,0.690,0.707,0.657,0.705,(1.9250)+(-0.0008)Gly+(-0.0129)Arg+(-0.0630)Tyr+(-0.0120)L

ys+(0.0662)Phe;0.670,0.715,0.673,0.691,0.638,0.720,0.669,0.679,(2.3172)+(0.0062)Thr+(-0.0009)Pro+(-0.0563)Tyr+(-0.0212)Lys+(0.0478)Ile;0.670,0.725,0.678,0.731,0.668,0.769,0.494,0.665,(0.4309)+(0.0287)Ser+(-0.0002)Gln+(-0.0038)Thr+(-0.0234)Arg+(-0.0428)Tyr;0.670,0.719,0.733,0.715,0.726,0.769,0.765,0.744,(2.8050)+(-0.0871)Asn+(-0.0026)Pro+(0.0187)Orn+(-0.0183)Lys+(0.0328)Ile;0.670,0.718,0.792,0.832,0.754,0.818,0.746,0.788,(4.6459)+(-0.0700)Asn+(0.0008)Gly+(-0.0048)Ala+(-0.0066)Arg+(-0.0217)Tyr;0.670,0.714,0.691,0.707,0.651,0.723,0.705,0.697,(2.5683)+(-0.0009)Gly+(-0.0002)Pro+(-0.0532)Tyr+(-0.0188)Lys+(0.0464)Ile;0.670,0.719,0.719,0.757,0.709,0.743,0.624,0.708,(4.3180)+(-0.0966)Asn+(0.0112)Thr+(-0.0448)Tyr+(0.0281)Orn+(-0.0102)Lys;0.670,0.703,0.714,0.720,0.703,0.768,0.681,0.718,(0.8153)+(0.0355)Ser+(-0.0060)Gly+(-0.0120)Thr+(-0.0638)Cit+(-0.0090)Val;0.670,0.719,0.729,0.774,0.719,0.794,0.583,0.717,(3.6260)+(-0.0197)Arg+(-0.0365)Tyr+(-0.0115)Val+(0.0391)Orn+(-0.0057)Lys;0.670,0.717,0.740,0.785,0.714,0.734,0.680,0.728,(4.4628)+(-0.0874)Asn+(0.0003)Gly+(0.0075)Pro+(-0.0404)Tyr+(-0.0084)Leu;0.670,0.711,0.753,0.797,0.685,0.814,0.733,0.757,(3.7400)+(-0.0021)Gly+(-0.0083)Ala+(0.0139)Pro+(-0.0366)Tyr+(-0.0090)Val;0.670,0.720,0.768,0.788,0.700,0.819,0.824,0.783,(1.7544)+(-0.0079)Ala+(-0.0273)Val+(-0.0122)Lys+(0.0367)Leu+(0.0492)Phe;0.670,0.714,0.670,0.637,0.702,0.765,0.622,0.682,(1.9060)+(0.0036)Gly+(0.0022)Thr+(-0.0899)Cit+(-0.0250)Lys+(0.0471)Ile;0.670,0.717,0.664,0.625,0.697,0.762,0.628,0.678,(1.0772)+(0.0044)Gly+(-0.0935)Cit+(-0.0270)Lys+(0.0431)Ile+(0.0280)Phe;0.670,0.712,0.752,0.797,0.701,0.816,0.696,0.752,(4.0356)+(-0.0079)Ala+(-0.0146)Arg+(0.0141)Pro+(-0.0314)Tyr+(-0.0086)Val;0.670,0.717,0.714,0.758,0.692,0.708,0.648,0.701,(4.1403)+(-0.1074)Asn+(-0.0004)Gly+(0.0120)Thr+(0.0053)Pro+(-0.0512)Tyr;0.670,0.716,0.790,0.844,0.760,0.788,0.712,0.776,(2.9645)+(-0.1027)Asn+(0.0066)Gln+(-0.0148)Arg+(-0.0340)Tyr+(-0.

0056)Leu;0.670,0.721,0.647,0.678,0.598,0.754,0.587,0.654,(1.2880)+(0.0253)Ser+(-0.0030)Gln+(-0.0411)Tyr+(-0.0287)Val+(0.0395)Leu;0.670,0.716,0.743,0.763,0.694,0.825,0.733,0.754,(2.7278)+(-0.0093)Ala+(0.0105)Pro+(-0.0108)Val+(0.0278)Orn+(-0.0112)Lys;0.670,0.717,0.795,0.834,0.787,0.752,0.741,0.779,(1.2198)+(-0.1308)Asn+(0.0059)Gln+(-0.0189)Arg+(-0.0207)Leu+(0.0570)Phe;0.670,0.714,0.723,0.718,0.719,0.758,0.719,0.729,(2.7434)+(-0.0841)Asn+(0.0027)Gly+(-0.0103)Arg+(-0.0140)Lys+(0.0357)Ile;0.670,0.714,0.731,0.776,0.679,0.794,0.676,0.731,(3.2668)+(0.0075)Thr+(-0.0095)Ala+(-0.0196)Arg+(0.0124)Pro+(-0.0425)Tyr;0.670,0.725,0.670,0.714,0.640,0.775,0.539,0.667,(1.1098)+(0.0250)Ser+(0.0084)Pro+(-0.0402)Tyr+(-0.0084)Val+(-0.0130)Lys;0.670,0.716,0.756,0.787,0.735,0.776,0.700,0.750,(4.9970)+(-0.1248)Asn+(0.0113)Thr+(0.0074)Pro+(-0.0165)Val+(-0.0012)Lys;0.670,0.710,0.692,0.703,0.710,0.770,0.569,0.688,(0.2327)+(0.0306)Ser+(-0.0115)Thr+(-0.0679)Cit+(-0.0135)Arg+(-0.0062)Leu;0.670,0.715,0.756,0.788,0.713,0.810,0.723,0.758,(3.5181)+(-0.0026)Gly+(-0.0063)Ala+(-0.0353)Tyr+(0.0331)Orn+(-0.0122)Lys;0.670,0.717,0.789,0.828,0.749,0.818,0.751,0.786,(4.6088)+(-0.0732)Asn+(0.0006)Gly+(-0.0049)Ala+(-0.0219)Tyr+(-0
.0018)Lys;0.670,0.714,0.745,0.764,0.678,0.849,0.762,0.763,(0.9959)+(0.0325)Ser+(-0.0075)Gly+(-0.0012)Gln+(-0.0070)Ala+(-0.0086)Val;0.670,0.727,0.711,0.717,0.651,0.833,0.733,0.733,(-0.3431)+(0.0310)Ser+(-0.0022)Gln+(-0.0163)Thr+(-0.0086)Ala+(0.0211)Orn;0.670,0.719,0.752,0.744,0.735,0.777,0.788,0.761,(1.7015)+(-0.1177)Asn+(0.0045)Gln+(0.0048)Thr+(-0.0181)Lys+(0.0313)Ile;0.670,0.717,0.781,0.801,0.775,0.759,0.760,0.773,(1.2138)+(-0.1191)Asn+(0.0058)Gln+(-0.0147)Arg+(-0.0113)Lys+(0.0386)Phe;0.670,0.719,0.647,0.703,0.603,0.744,0.520,0.643,(0.6598)+(0.0167)Ser+(0.0073)Pro+(-0.0536)Tyr+(-0.0137)Val+(0.0191)Orn;0.670,0.719,0.738,0.778,0.704,0.775,0.675,0.733,(2.7859)+(0.0025)Gln+(-0.0650)Ci

t+(-0.0414)Tyr+(-0.0219)Val+(0.0287)Leu;0.670,0.715,0.778,0.796,0.774,0.844,0.692,0.777,(4.1834)+(0.0098)Thr+(-0.0076)Ala+(-0.0767)Cit+(-0.0020)Val+(-0.0095)Lys;0.670,0.716,0.744,0.739,0.754,0.745,0.739,0.744,(2.4266)+(-0.1037)Asn+(0.0002)Pro+(0.0216)Orn+(-0.0157)Lys+(0.0347)Phe;0.669,0.716,0.758,0.772,0.727,0.800,0.754,0.763,(0.8487)+(-0.0013)Thr+(-0.0105)Ala+(-0.0238)Arg+(0.0200)Orn+(0.0347)Phe;0.669,0.713,0.729,0.753,0.638,0.793,0.809,0.748,(0.9794)+(-0.0111)Ala+(0.0097)Pro+(-0.0290)Val+(0.0304)Leu+(0.0378)Phe;0.669,0.711,0.678,0.711,0.672,0.785,0.527,0.674,(0.8384)+(0.0270)Ser+(-0.0014)Gln+(-0.0288)Arg+(0.0070)Pro+(-0.0150)Val;0.669,0.718,0.773,0.776,0.741,0.840,0.779,0.784,(4.1934)+(-0.0073)Ala+(-0.0640)Cit+(-0.0217)Val+(-0.0085)Lys+(0.0400)Leu;0.669,0.716,0.759,0.794,0.704,0.791,0.756,0.761,(1.6870)+(-0.0100)Ala+(-0.0208)Arg+(0.0111)Pro+(-0.0147)Val+(0.0561)Phe;0.669,0.723,0.788,0.813,0.770,0.806,0.744,0.783,(3.6098)+(-0.0044)Ala+(-0.0065)Arg+(-0.0029)Tyr+(-0.1637)Met+(0.0069)Leu;0.669,0.713,0.743,0.795,0.668,0.816,0.711,0.748,(2.8248)+(0.0012)Gln+(-0.0086)Ala+(0.0136)Pro+(-0.0371)Tyr+(-0.0091)Val;0.669,0.717,0.784,0.834,0.753,0.787,0.716,0.772,(2.8766)+(-0.0992)Asn+(0.0066)Gln+(-0.0133)Arg+(-0.0351)Tyr+(-0.0040)Lys;0.669,0.711,0.792,0.820,0.769,0.835,0.734,0.789,(2.5534)+(0.0038)Gln+(-0.0077)Ala+(-0.0731)Cit+(-0.0083)Arg+(-0.0044)Val;0.669,0.719,0.739,0.747,0.671,0.826,0.798,0.760,(-0.0620)+(0.0383)Ser+(-0.0067)Gly+(-0.0008)Gln+(-0.0123)Thr+(-0.0080)Ala;0.669,0.716,0.717,0.760,0.652,0.792,0.686,0.723,(2.4158)+(-0.0098)Ala+(0.0119)Pro+(-0.0455)Tyr+(0.0212)Orn+(-0.0075)Leu;0.669,0.709,0.766,0.780,0.757,0.819,0.713,0.767,(3.2961)+(0.0058)Thr+(-0.0093)Ala+(-0.0777)Cit+(-0.0059)Arg+(0.0023)Leu;0.669,0.707,0.782,0.807,0.756,0.830,0.735,0.782,(2.4996)+(0.0029)Gln+(0.0019)Thr+(-0.0083)Ala+(-0.0805)Cit+(-0.0043)Val;0.669,0.714,0.703,0.746,0.693,0.727,0.596,0.690,(2.1018)+(0.0025)Gln+(0.0008)Thr+(-0.07

91)Cit+(0.0053)Pro+(-0.0575)Tyr;0.669,0.709,0.784,0.809,0.757,0.832,0.738,0.784,(2.4648)+(0.0003)Gly+(0.0031)Gln+(-0.0082)Ala+(-0.0804)Cit+(-0.0041)Val;0.669,0.723,0.687,0.665,0.672,0.774,0.712,0.706,(-0.4047)+(0.0434)Ser+(-0.0085)Gly+(-0.0133)Thr+(0.0236)Orn+(-0.0221)Lys;0.669,0.718,0.778,0.792,0.775,0.843,0.696,0.777,(4.1351)+(0.0101)Thr+(-0.0080)Ala+(-0.0783)Cit+(-0.0010)Arg+(-0.0102)Lys;0.669,0.713,0.713,0.754,0.698,0.729,0.625,0.701,(2.1766)+(-0.0010)Gly+(0.0029)Gln+(-0.0775)Cit+(0.0053)Pro+(-0.0577)Tyr;0.669,0.712,0.710,0.755,0.697,0.751,0.587,0.698,(3.7109)+(0.0044)Thr+(-0.0656)Cit+(0.0083)Pro+(-0.0477)Tyr+(-0.0097)Val;0.669,0.723,0.632,0.605,0.693,0.739,0.501,0.634,(-1.8296)+(0.0251)Ser+(-0.0933)Cit+(-0.0248)Arg+(0.0250)Orn+(0.0181)Phe;0.669,0.719,0.681,0.715,0.699,0.751,0.501,0.666,(-1.8809)+(0.0260)Ser+(-0.0376)Arg+(0.0124)Orn+(-0.0242)Leu+(0.0461)Phe;0.669,0.719,0.785,0.815,0.761,0.825,0.730,0.783,(4.1110)+(-0.0959)Asn+(0.0008)Gly+(0.0128)Thr+(-0.0067)Ala+(-0.0129)Arg;0.669,0.716,0.748,0.794,0.715,0.810,0.655,0.743,(3.1811)+(-0.0064)Ala+(-0.0205)Arg+(-0.0353)Tyr+(0.0323)Orn+(-0.0049)Leu;0.669,0.716,0.730,0.760,0.657,0.789,0.763,0.742,(0.4862)+(-0.0110)Ala+(0.0092)Pro+(-0.0168)Val+(0.0193)Orn+(0.0444)Phe;0.669,0.711,0.692,0.686,0.716,0.751,0.613,0.692,(0.5809)+(-0.1021)Cit+(0.0003)Pro+(-0.0194)Val+(0.0461)Orn+(0.0399)Phe;0.669,0.717,0.741,0.725,0.734,0.754,0.792,0.751,(2.3800)+(-0.0913)Asn+(-0.0022)Pro+(-0.0173)Lys+(0.0311)Ile+(0.0254)Phe;0.669,0.723,0.676,0.682,0.690,0.783,0.554,0.677,(-0.3280)+(0.0324)Ser+(-0.0101)Thr+(-0.0200)Arg+(0.0237)Orn+(-0.0179)Lys;0.669,0.712,0.691,0.686,0.715,0.752,0.609,0.691,(0.5475)+(0.0002)Gly+(-0.1025)Cit+(-0.0193)Val+(0.0462)Orn+(0.0403)Phe;0.669,0.715,0.786,0.837,0.754,0.774,0.725,0.772,(2.8173)+(-0.1026)Asn+(-0.0009)Gly+(0.0067)Gln+(-0.0151)Arg+(-0.0386)Tyr;0.669,0.717,0.721,0.730,0.689,0.799,0.708,0.732,(1.0485)+(0.0385)Ser+(-0.0090)Gly+(-0.0005)Gln+(-0

.0087)Val+(-0.0165)Lys;0.669,0.718,0.681,0.655,0.703,0.773,0.637,0.692,(2.0637)+(0.0038)Gly+(-0.0881)Cit+(-0.0040)Pro+(-0.0240)Lys+(0.0529)Ile;0.669,0.717,0.654,0.627,0.653,0.724,0.678,0.671,(-1.0942)+(0.0449)Ser+(-0.0080)Gly+(-0.0019)Gln+(-0.0274)Lys+(0.0389)Phe;0.669,0.717,0.764,0.800,0.767,0.732,0.685,0.746,(2.3820)+(-0.1114)Asn+(0.0027)Gly+(-0.0144)Arg+(-0.0199)Leu+(0.0626)Phe;0.669,0.716,0.787,0.825,0.743,0.811,0.758,0.784,(4.4739)+(-0.0765)Asn+(0.0007)Gly+(-0.0051)Ala+(-0.0235)Tyr+(0.0010)Leu;0.669,0.716,0.788,0.815,0.773,0.750,0.772,0.778,(1.2934)+(-0.1328)Asn+(0.0051)Gln+(-0.0084)Lys+(-0.0167)Leu+(0.0549)Phe;0.669,0.705,0.702,0.701,0.702,0.755,0.668,0.707,(0.1248)+(0.0371)Ser+(-0.0055)Gly+(-0.0154)Thr+(-0.0718)Cit+(-0.0072)Leu;0.669,0.712,0.708,0.707,0.652,0.772,0.783,0.729,(-0.1165)+(0.0372)Ser+(-0.0082)Gly+(-0.0139)Thr+(-0.0297)Val+(0.0332)Leu;0.669,0.720,0.701,0.724,0.628,0.836,0.695,0.721,(0.0717)+(0.0186)Ser+(-0.0107)Ala+(0.0112)Pro+(-0.0128)Val+(0.0152)Orn;0.669,0.715,0.690,0.683,0.716,0.753,0.611,0.691,(1.0916)+(-0.0013)Gln+(-0.1009)Cit+(-0.0194)Val+(0.0484)Orn+(0.0418)Phe;0.669,0.712,0.788,0.805,0.777,0.841,0.732,0.789,(4.2876)+(-0.0070)Ala+(-0.0727)Cit+(0.0014)Arg+(-0.0020)Val+(-0.0063)Lys;0.669,0.714,0.669,0.702,0.683,0.738,0.502,0.656,(-1.9358)+(0.0277)Ser+(-0.0368)Arg+(0.0032)Pro+(-0.0240)Leu+(0.0467)Phe;0.669,0.717,0.740,0.728,0.737,0.751,0.769,0.746,(2.5195)+(-0.0861)Asn+(-0.0094)Arg+(-0.0154)Lys+(0.0280)Ile+(0.0254)Phe;0.668,0.708,0.747,0.797,0.687,0.800,0.705,0.747,(2.4475)+(0.0026)Gln+(-0.0095)Ala+(-0.0191)Arg+(0.0122)Pro+(-0.0402)Tyr;0.668,0.721,0.692,0.725,0.648,0.738,0.662,0.693,(0.9145)+(0.0370)Ser+(-0.0101)Gly+(-0.0010)Gln+(-0.0564)Tyr+(-0.0045)Leu;0.668,0.716,0.789,0.835,0.752,0.780,0.749,0.779,(2.9814)+(-0.1034)Asn+(-0.0012)Gly+(0.0061)Gln+(-0.0369)Tyr+(-0.0064)Lys;0.668,0.714,0.715,0.711,0.769,0.789,0.561,0.707,(2.0906)+(-0.0954)Cit+(-0.0163)Arg+(0.0009)Pro+(0.0442)O

rn+(-0.0174)Leu;0.668,0.707,0.702,0.720,0.712,0.786,0.575,0.698,(0.93
06)+(0.0284)Ser+(-0.0079)Thr+(-0.0596)Cit+(-0.0143)Arg+(-0.0085)Val;0
.668,0.714,0.705,0.719,0.651,0.734,0.759,0.716,(-1.6517)+(0.0383)Ser+
(-0.0074)Gly+(-0.0170)Thr+(-0.0164)Val+(0.0448)Phe;0.668,0.714,0.776,
0.812,0.761,0.732,0.745,0.762,(0.9859)+(-0.1495)Asn+(0.0013)Gly+(0.00
46)Gln+(-0.0212)Leu+(0.0554)Phe;0.668,0.714,0.672,0.639,0.700,0.766,0
.629,0.684,(1.9192)+(0.0037)Gly+(-0.0895)Cit+(0.0009)Arg+(-0.0245)Lys
+(0.0474)Ile;0.668,0.716,0.746,0.761,0.765,0.755,0.662,0.736,(4.5987)
+(-0.1096)Asn+(0.0096)Thr+(-0.0692)Cit+(0.0038)Pro+(-0.0096)Leu;0.668
,0.706,0.745,0.785,0.689,0.794,0.721,0.747,(3.5454)+(-0.0010)Gly+(-0.
0093)Ala+(-0.0149)Arg+(0.0128)Pro+(-0.0384)Tyr;0.668,0.713,0.690,0.70
8,0.661,0.728,0.673,0.693,(2.7019)+(-0.0121)Arg+(0.0003)Pro+(-0.0506)
Tyr+(-0.0157)Lys+(0.0454)Ile;0.668,0.714,0.766,0.794,0.743,0.840,0.68
4,0.765,(3.2936)+(-0.0062)Ala+(-0.0188)Arg+(-0.0104)Val+(0.0368)Orn+(
-0.0065)Lys;0.668,0.717,0.743,0.769,0.687,0.791,0.756,0.751,(0.7400)+
(-0.0012)Gln+(-0.0087)Ala+(-0.0162)Val+(0.0251)Orn+(0.0526)Phe;0.668,
0.726,0.683,0.741,0.675,0.782,0.477,0.669,(0.7311)+(0.0266)Ser+(-0.00
01)Gln+(-0.0250)Arg+(-0.0426)Tyr+(-0.0038)Leu;0.668,0.712,0.780,0.804
,0.775,0.794,0.716,0.772,(5.5852)+(-0.0877)Asn+(-0.0559)Cit+(0.0010)A
rg+(-0.0095)Val+(0.0004)Lys;0.668,0.711,0.691,0.729,0.691,0.713,0.575
,0.677,(3.0385)+(-0.0004)Gly+(0.0038)Thr+(-0.0741)Cit+(0.0056)Pro+(-0
.0568)Tyr;0.668,0.713,0.699,0.665,0.715,0.765,0.707,0.713,(0.7293)+(0
.0033)Gln+(-0.0913)Cit+(-0.0282)Lys+(0.0406)Ile+(0.0225)Phe;0.668,0.7
13,0.750,0.790,0.712,0.803,0.689,0.748,(3.3151)+(-0.0019)Gly+(-0.0068
)Ala+(-0.0194)Arg+(-0.0385)Tyr+(0.0312)Orn;0.668,0.712,0.693,0.711,0.
662,0.730,0.680,0.696,(2.7484)+(-0.0003)Gly+(-0.0119)Arg+(-0.0504)Tyr
+(-0.0157)Lys+(0.0457)Ile;0.668,0.722,0.713,0.751,0.708,0.828,0.545,0
.708,(0.9506)+(0.0282)Ser+(-0.0000)Gln+(-0.0215)Arg+(-0.0089)Val+(-0.

0107)Lys;0.668,0.710,0.695,0.765,0.648,0.643,0.648,0.676,(1.1226)+(-0.0029)Gly+(0.0064)Pro+(-0.0795)Tyr+(-0.0219)Leu+(0.0749)Phe;0.668,0.709,0.678,0.681,0.699,0.758,0.571,0.677,(-0.3512)+(0.0318)Ser+(0.0001)Gln+(-0.0136)Thr+(-0.0712)Cit+(-0.0135)Arg;0.668,0.721,0.721,0.724,0.710,0.808,0.672,0.729,(2.7878)+(-0.0193)Arg+(-0.0336)Val+(0.0364)Orn+(-0.0129)Lys+(0.0406)Leu;0.668,0.718,0.748,0.759,0.675,0.829,0.813,0.769,(3.0794)+(-0.0095)Ala+(0.0110)Pro+(-0.0287)Val+(-0.0105)Lys+(0.0420)Leu;0.668,0.713,0.762,0.796,0.761,0.767,0.670,0.748,(3.5718)+(0.0006)Gly+(-0.0077)Arg+(-0.0060)Tyr+(-0.1778)Met+(-0.0005)Lys;0.668,0.718,0.680,0.723,0.672,0.665,0.595,0.664,(1.6106)+(-0.0681)Cit+(-0.0092)Arg+(0.0046)Pro+(-0.0734)Tyr+(0.0617)Phe;0.668,0.716,0.787,0.813,0.755,0.828,0.757,0.788,(4.0045)+(-0.1051)Asn+(0.0005)Gly+(0.0103)Thr+(-0.0067)Ala+(-0.0028)Leu;0.668,0.711,0.708,0.750,0.703,0.733,0.590,0.694,(3.4490)+(-0.0000)Gly+(-0.0703)Cit+(0.0071)Pro+(-0.0499)Tyr+(-0.0070)Leu;0.668,0.714,0.755,0.781,0.695,0.794,0.779,0.762,(0.6119)+(-0.0017)Gly+(-0.0088)Ala+(-0.0162)Val+(0.0242)Orn+(0.0497)Phe;0.668,0.708,0.666,0.661,0.691,0.744,0.573,0.667,(-0.6040)+(0.0331)Ser+(-0.0155)Thr+(-0.0716)Cit+(-0.0141)Arg+(0.0036)Pro;0.668,0.722,0.702,0.697,0.627,0.810,0.792,0.732,(-0.8353)+(0.0305)Ser+(-0.0074)Gly+(-0.0130)Ala+(0.0094)Pro+(0.0049)Orn;0.667,0.720,0.749,0.798,0.693,0.821,0.683,0.749,(2.7505)+(-0.0010)Thr+(-0.0058)Ala+(-0.0338)Tyr+(-0.0100)Val+(0.0319)Orn;0.667,0.715,0.740,0.794,0.692,0.770,0.678,0.733,(2.9199)+(-0.0047)Gly+(0.0009)Gln+(-0.0498)Tyr+(-0.0134)Val+(0.0322)Orn;0.667,0.714,0.730,0.774,0.709,0.725,0.662,0.718,(4.2667)+(-0.0803)Asn+(0.0009)Gly+(-0.0104)Arg+(0.0065)Pro+(-0.0422)Tyr;0.667,0.713,0.746,0.766,0.746,0.718,0.713,0.736,(2.2325)+(-0.1306)Asn+(0.0024)Pro+(0.0208)Orn+(-0.0251)Leu+(0.0519)Phe;0.667,0.70

5,0.679,0.697,0.693,0.766,0.539,0.674,(0.8346)+(0.0253)Ser+(-0.0565)C

it+(-0.0207)Arg+(0.0061)Pro+(-0.0124)Val;0.667,0.713,0.756,0.784,0.752,0.762,0.684,0.746,(3.2636)+(0.0006)Gly+(-0.0069)Tyr+(-0.1919)Met+(-0.0037)Lys+(0.0054)Leu;0.667,0.721,0.681,0.673,0.666,0.735,0.696,0.693,(-1.3859)+(0.0418)Ser+(-0.0086)Gly+(-0.0257)Lys+(-0.0085)Leu+(0.0440)Phe;0.667,0.711,0.777,0.800,0.763,0.834,0.703,0.775,(3.7099)+(0.0014)Gly+(-0.0073)Ala+(-0.0718)Cit+(-0.0036)Arg+(-0.0038)Val;0.667,0.723,0.716,0.754,0.706,0.827,0.556,0.711,(0.8657)+(0.0293)Ser+(-0.0032)Thr+(-0.0204)Arg+(-0.0086)Val+(-0.0100)Lys;0.667,0.714,0.692,0.739,0.663,0.682,0.637,0.680,(1.7837)+(-0.0028)Gly+(0.0118)Thr+(-0.0749)Tyr+(-0.0193)Lys+(0.0686)Phe;0.667,0.710,0.748,0.769,0.681,0.817,0.784,0.763,(3.1042)+(-0.0096)Ala+(-0.0170)Arg+(0.0119)Pro+(-0.0295)Val+(0.0384)Leu;0.667,0.716,0.721,0.703,0.719,0.756,0.750,0.732,(2.7846)+(-0.0962)Asn+(0.0045)Thr+(0.0162)Orn+(-0.0188)Lys+(0.0289)Ile;0.667,0.711,0.710,0.750,0.636,0.784,0.702,0.718,(2.1175)+(0.0000)Gln+(-0.0104)Ala+(0.0112)Pro+(-0.0474)Tyr+(0.0183)Orn;0.667,0.715,0.783,0.830,0.750,0.796,0.718,0.773,(5.1821)+(-0.0916)Asn+(0.0005)Gly+(-0.0216)Tyr+(-0.0105)Val+(0.0026)Lys;0.667,0.706,0.767,0.790,0.752,0.827,0.695,0.766,(3.4430)+(0.0009)Gly+(0.0046)Thr+(-0.0080)Ala+(-0.0772)Cit+(-0.0042)Val;0.667,0.720,0.707,0.700,0.648,0.829,0.761,0.734,(0.0125)+(0.0329)Ser+(-0.0068)Gly+(-0.0025)Gln+(-0.0099)Ala+(0.0131)Orn;0.667,0.716,0.741,0.750,0.697,0.815,0.758,0.755,(2.0737)+(0.0007)Gln+(-0.0108)Ala+(0.0090)Pro+(0.0218)Orn+(-0.0164)Lys;0.667,0.716,0.699,0.744,0.668,0.764,0.598,0.693,(3.0194)+(0.0069)Pro+(-0.0457)Tyr+(-0.0122)Val+(0.0318)Orn+(-0.0107)Lys;0.667,0.718,0.728,0.739,0.689,0.801,0.726,0.739,(0.7991)+(0.0403)Ser+(-0.0087)Gly+(-0.0066)Thr+(-0.0080)Val+(-0.0147)Lys;0.667,0.723,0.634,0.668,0.618,0.750,0.498,0.633,(0.3803)+(0.0255)Ser+(0.0052)Pro+(-0.0482)Tyr+(0.0201)Orn+(-0.0197)Lys;0.667,0.714,0.757,0.781,0.754,0.735,0.718,0.747,(2.3600)+(-0.1140)Asn+(0.0022)Gly+(-0.0067)

Lys+(-0.0167)Leu+(0.0600)Phe;0.667,0.713,0.756,0.789,0.757,0.758,0.669,0.743,(3.3731)+(0.0007)Gly+(-0.0079)Arg+(-0.0068)Tyr+(-0.1884)Met+(0.0035)Leu;0.667,0.717,0.738,0.744,0.761,0.749,0.662,0.729,(4.1599)+(-0.1109)Asn+(0.0103)Thr+(-0.0697)Cit+(-0.0046)Arg+(0.0020)Pro;0.667,0.714,0.721,0.720,0.771,0.794,0.564,0.712,(1.7811)+(0.0009)Gln+(-0.0958)Cit+(-0.0172)Arg+(0.0434)Orn+(-0.0171)Leu;0.667,0.716,0.709,0.727,0.691,0.791,0.642,0.713,(2.1031)+(-0.0274)Arg+(0.0036)Pro+(-0.0348)Val+(0.0305)Orn+(0.0328)Leu;0.667,0.714,0.715,0.738,0.695,0.769,0.654,0.714,(1.1185)+(-0.0289)Arg+(-0.0343)Val+(0.0301)Orn+(0.0273)Leu+(0.0361)Phe;0.666,0.716,0.731,0.797,0.706,0.696,0.631,0.708,(1.7171)+(-0.0012)Gly+(-0.0193)Arg+(-0.0660)Tyr+(-0.0180)Leu+(0.0806)Phe;0.666,0.712,0.716,0.692,0.723,0.785,0.711,0.728,(1.3590)+(0.0038)Gln+(-0.0889)Cit+(-0.0051)Pro+(-0.0262)Lys+(0.0512)Ile;0.666,0.715,0.748,0.768,0.750,0.722,0.708,0.737,(2.2311)+(-0.1367)Asn+(0.0040)Thr+(0.0200)Orn+(-0.0243)Leu+(0.0532)Phe;0.666,0.715,0.738,0.787,0.669,0.814,0.699,0.742,(3.2361)+(0.0021)Thr+(-0.0086)Ala+(0.0137)Pro+(-0.0370)Tyr+(-0.0091)Val;0.666,0.716,0.746,0.760,0.671,0.839,0.798,0.767,(1.8668)+(-0.0036)Thr+(-0.0083)Ala+(-0.0322)Val+(0.0292)Orn+(0.0409)Leu;0.666,0.706,0.755,0.767,0.719,0.820,0.751,0.764,(3.2594)+(0.0016)Gly+(-0.0082)Ala+(-0.0693)Cit+(-0.0220)Val+(0.0362)Leu;0.666,0.720,0.657,0.660,0.681,0.779,0.510,0.657,(-0.3229)+(0.0299)Ser+(-0.0239)Arg+(0.0023)Pro+(0.0185)Orn+(-0.0209)Lys;0.666,0.719,0.745,0.790,0.726,0.740,0.672,0.732,(4.7681)+(-0.0761)Asn+(-0.0099)Arg+(0.0078)Pro+(-0.0389)Tyr+(-0.0083)Leu;0.666,0.716,0.740,0.750,0.698,0.812,0.748,0.752,(2.3770)+(-0.0106)Ala+(0.0094)Pro+(0.0232)Orn+(-0.0151)Lys+(-0.0032)Leu;0.666,0.717,0.605,0.577,0.610,0.709,0.590,0.622,(-2.2821)+(0.0393)Ser+(-0.0023)Gln+(-0.0181)Thr+(-0.0259)Arg+(0.0325)Ile;0.666,0.725,0.689,0.746,0.677,0.785,0.495,0.676,(0.6192)+(0.0279)Ser+(-0.0034)Thr+(-0.0235)Arg+(-0.0405

)Tyr+(-0.0035)Leu;0.666,0.713,0.769,0.791,0.742,0.834,0.722,0.772,(2.0967)+(0.0022)Gln+(-0.0080)Ala+(-0.0185)Arg+(0.0282)Orn+(-0.0127)Lys;0.666,0.721,0.701,0.747,0.632,0.830,0.631,0.710,(0.2433)+(0.0200)Ser+(-0.0075)Ala+(-0.0400)Tyr+(0.0177)Orn+(-0.0014)Leu;0.666,0.710,0.753,0.778,0.700,0.789,0.772,0.760,(0.5908)+(0.0012)Gln+(-0.0125)Ala+(-0.0234)Arg+(0.0089)Pro+(0.0334)Phe;0.666,0.717,0.650,0.626,0.638,0.719,0.690,0.668,(-2.4390)+(0.0444)Ser+(-0.0061)Gly+(-0.0190)Thr+(-0.0269)Arg+(0.0277)Ile;0.666,0.716,0.774,0.813,0.759,0.785,0.692,0.762,(3.7302)+(0.0001)Gly+(-0.0020)Tyr+(-0.0068)Val+(-0.1775)Met+(0.0017)Lys;0.666,0.711,0.767,0.780,0.746,0.827,0.733,0.771,(2.9692)+(-0.0010)Gly+(-0.0078)Ala+(-0.0160)Arg+(0.0308)Orn+(-0.0119)Lys;0.666,0.716,0.738,0.786,0.702,0.805,0.638,0.732,(2.9320)+(0.0050)Thr+(-0.0071)Ala+(-0.0225)Arg+(-0.0396)Tyr+(0.0282)Orn;0.666,0.709,0.747,0.764,0.704,0.818,0.740,0.756,(1.5257)+(0.0010)Gln+(-0.0118)Ala+(-0.0241)Arg+(0.0089)Pro+(0.0181)Orn;0.666,0.712,0.699,0.742,0.696,0.731,0.570,0.685,(3.3152)+(0.0035)Thr+(-0.0724)Cit+(0.0068)Pro+(-0.0528)Tyr+(-0.0070)Leu;0.666,0.720,0.719,0.761,0.701,0.728,0.636,0.707,(4.4824)+(-0.0977)Asn+(0.0139)Thr+(0.0056)Pro+(-0.0468)Tyr+(-0.0075)Lys;0.666,0.715,0.772,0.784,0.763,0.757,0.769,0.769,(1.0935)+(-0.1285)Asn+(0.0010)Gly+(0.0049)Gln+(-0.0138)Lys+(0.0391)Phe;0.666,0.717,0.776,0.818,0.767,0.790,0.678,0.763,(3.9360)+(0.0004)Gly+(-0.0090)Arg+(-0.0073)Val+(-0.1719)Met+(0.0037)Lys;0.666,0.713,0.747,0.788,0.693,0.803,0.714,0.749,(3.6785)+(-0.0090)Ala+(-0.0126)Arg+(0.0128)Pro+(-0.0344)Tyr+(-0.0048)Lys;0.666,0.722,0.722,0.762,0.648,0.834,0.689,0.733,(0.1199)+(0.0270)Ser+(-0.0086)Thr+(-0.0068)Ala+(-0.0303)Tyr+(0.0027)Leu;0.666,0.717,0.657,0.662,0.683,0.779,0.503,0.657,(0.1529)+(0.0309)Ser+(-0.0014)Gln+(-0.0223)Arg+(0.0213)Orn+(-0.0199)Lys;0.666,0.715,0.753,0.773,0.773,0.761,0.654,0.740,(4.7526)+(-0.1064)Asn+(0.0120)Thr+(-0.0660)Cit+(-0.0046)Arg+(-0.00

73)Leu;0.666,0.710,0.750,0.785,0.689,0.802,0.746,0.756,(3.6359)+(-0.0015)Gly+(-0.0091)Ala+(0.0126)Pro+(-0.0364)Tyr+(-0.0079)Lys;0.666,0.713,0.740,0.732,0.731,0.762,0.764,0.747,(3.1048)+(-0.0768)Asn+(-0.0089)Arg+(-0.0017)Pro+(-0.0144)Lys+(0.0365)Ile;0.666,0.721,0.665,0.637,0.665,0.755,0.671,0.682,(0.1266)+(0.0410)Ser+(-0.0087)Gly+(-0.0016)Gln+(0.0197)Orn+(-0.0254)Lys;0.666,0.718,0.788,0.810,0.759,0.838,0.752,0.790,(4.2606)+(-0.0953)Asn+(0.0003)Gly+(0.0123)Thr+(-0.0065)Ala+(-0.0067)Lys;0.666,0.716,0.812,0.848,0.780,0.838,0.766,0.808,(5.1566)+(-0.0830)Asn+(-0.0038)Ala+(-0.0075)Arg+(-0.0096)Val+(0.0032)Lys;0.665,0.715,0.735,0.770,0.728,0.778,0.625,0.725,(2.6583)+(0.0041)Gln+(-0.0766)Cit+(0.0057)Pro+(-0.0453)Tyr+(-0.0124)Lys;0.665,0.718,0.795,0.834,0.759,0.816,0.754,0.791,(4.7739)+(-0.0674)Asn+(-0.0048)Ala+(-0.0060)Arg+(-0.0219)Tyr+(-0.0007)Lys;0.665,0.713,0.702,0.672,0.718,0.772,0.695,0.714,(1.3323)+(0.0033)Gln+(0.0009)Thr+(-0.0892)Cit+(-0.0264)Lys+(0.0442)Ile;0.665,0.711,0.749,0.771,0.699,0.788,0.768,0.756,(0.9164)+(0.0006)Gly+(-0.0125)Ala+(-0.0221)Arg+(0.0092)Pro+(0.0352)Phe;0.665,0.714,0.700,0.664,0.718,0.765,0.708,0.714,(1.9302)+(-0.0837)Cit+(-0.0043)Pro+(-0.0253)Lys+(0.0458)Ile+(0.0252)Phe;0.665,0.715,0.632,0.596,0.669,0.717,0.592,0.643,(-1.5803)+(0.0331)Ser+(-0.0042)Gly+(-0.0716)Cit+(-0.0249)Arg+(0.0254)Ile;0.665,0.715,0.686,0.733,0.683,0.675,0.575,0.667,(1.4216)+(0.0012)Gly+(-0.0702)Cit+(-0.0086)Arg+(-0.0680)Tyr+(0.0655)Phe;0.665,0.712,0.750,0.793,0.687,0.820,0.716,0.754,(3.6670)+(-0.0082)Ala+(0.0137)Pro+(-0.0323)Tyr+(-0.0077)Val+(-0.0048)Lys;0.665,0.718,0.787,0.837,0.753,0.786,0.728,0.776,(2.9714)+(-0.1069)Asn+(0.0059)Gln+(-0.0345)Tyr+(-0.0050)Lys+(-0.0035)Leu;0.665,0.713,0.727,0.708,0.725,0.746,0.764,0.736,(2.3388)+(-0.1052)Asn+(0.0073)Thr+(-0.0186)Lys+(0.0266)Ile+(0.0258)Phe;0.665,0.714,0.761,0.790,0.761,0.765,0.681,0.749,(3.5637)+(-0.0067)Arg+(-0.0073)Tyr+(-0.1817)Met+(-0.0020)Lys+(0.0043)Leu

;0.665,0.713,0.769,0.804,0.753,0.793,0.694,0.761,(5.0141)+(-0.1203)As
n+(0.0001)Gly+(0.0134)Thr+(-0.0135)Val+(-0.0016)Lys;0.665,0.715,0.737
,0.777,0.715,0.730,0.678,0.725,(4.5151)+(-0.0742)Asn+(-0.0084)Arg+(0.
0066)Pro+(-0.0407)Tyr+(-0.0033)Lys;0.665,0.709,0.745,0.790,0.692,0.80
0,0.698,0.745,(3.5606)+(-0.0090)Ala+(-0.0154)Arg+(0.0132)Pro+(-0.0365
)Tyr+(-0.0039)Leu;0.665,0.702,0.679,0.683,0.667,0.761,0.635,0.686,(0.
3242)+(0.0279)Ser+(-0.0121)Thr+(-0.0669)Cit+(-0.0237)Val+(0.0288)Leu;
0.665,0.716,0.751,0.792,0.703,0.821,0.696,0.753,(2.5052)+(0.0017)Gln+
(-0.0066)Ala+(-0.0341)Tyr+(0.0296)Orn+(-0.0135)Lys;0.665,0.715,0.677,
0.681,0.611,0.828,0.697,0.704,(0.2296)+(0.0259)Ser+(-0.0032)Gln+(-0.0
119)Ala+(0.0114)Pro+(-0.0053)Leu;0.665,0.716,0.672,0.721,0.676,0.665,
0.538,0.650,(1.4523)+(0.0098)Thr+(-0.0685)Cit+(-0.0138)Arg+(-0.0761)T
yr+(0.0656)Phe;0.665,0.721,0.708,0.741,0.715,0.762,0.567,0.696,(3.941
4)+(0.0098)Thr+(-0.0725)Cit+(0.0059)Pro+(-0.0480)Tyr+(-0.0125)Lys;0.6
65,0.701,0.674,0.675,0.687,0.745,0.592,0.675,(-0.2755)+(0.0312)Ser+(-
0.0180)Thr+(-0.0788)Cit+(0.0050)Pro+(-0.0092)Leu;0.665,0.716,0.732,0.
783,0.725,0.735,0.608,0.713,(4.6571)+(-0.0957)Asn+(-0.0005)Gly+(0.017
3)Thr+(-0.0153)Arg+(-0.0442)Tyr;0.665,0.710,0.744,0.758,0.704,0.818,0
.742,0.755,(1.9305)+(-0.0004)Gly+(-0.0117)Ala+(-0.0227)Arg+(0.0091)Pr
o+(0.0193)Orn;0.665,0.716,0.613,0.558,0.675,0.721,0.551,0.626,(-0.558
0)+(0.0295)Ser+(-0.0041)Gly+(-0.0034)Gln+(-0.1044)Cit+(0.0295)Orn;0.6
65,0.710,0.746,0.759,0.704,0.814,0.748,0.756,(1.9566)+(-0.0033)Thr+(-
0.0116)Ala+(-0.0215)Arg+(0.0093)Pro+(0.0207)Orn;0.665,0.718,0.746,0.7
58,0.674,0.828,0.805,0.766,(-0.2169)+(0.0375)Ser+(-0.0069)Gly+(-0.012
7)Thr+(-0.0080)Ala+(-0.0013)Leu;0.665,0.705,0.677,0.688,0.676,0.773,0
.581,0.680,(0.7309)+(0.0255)Ser+(-0.0524)Cit+(-0.0188)Arg+(-0.0262)Va
l+(0.0308)Leu;0.665,0.710,0.782,0.820,0.737,0.807,0.760,0.781,(1.7878
)+(-0.0071)Ala+(-0.0159)Arg+(-0.0116)Val+(-0.0058)Lys+(0.0636)Phe;0.6

64,0.699,0.683,0.678,0.665,0.751,0.682,0.694,(0.5220)+(0.0300)Ser+(-0.0065)Gly+(-0.0630)Cit+(-0.0269)Val+(0.0292)Leu;0.664,0.714,0.733,0.772,0.708,0.729,0.686,0.724,(4.3143)+(-0.0814)Asn+(0.0005)Gly+(0.0064)Pro+(-0.0407)Tyr+(-0.0050)Lys;0.664,0.713,0.722,0.796,0.673,0.666,0.670,0.701,(0.6459)+(-0.0033)Gly+(0.0015)Gln+(-0.0757)Tyr+(-0.0194)Leu+(0.0754)Phe;0.664,0.708,0.774,0.806,0.757,0.722,0.758,0.761,(1.1309)+(-0.1477)Asn+(0.0046)Gln+(0.0026)Pro+(-0.0227)Leu+(0.0529)Phe;0.664,0.720,0.669,0.645,0.662,0.756,

0.682,0.687,(-0.3827)+(0.0397)Ser+(-0.0091)Gly+(0.0014)Pro+(0.0174)Orn+(-0.0267)Lys;0.664,0.711,0.729,0.762,0.701,0.764,0.675,0.726,(3.7512)+(-0.0002)Gly+(-0.0586)Cit+(-0.0376)Tyr+(-0.0231)Val+(0.0314)Leu;0.664,0.705,0.751,0.762,0.715,0.817,0.751,0.761,(3.2363)+(0.0057)Thr+(-0.0086)Ala+(-0.0695)Cit+(-0.0229)Val+(0.0364)Leu;0.664,0.712,0.705,0.677,0.722,0.771,0.697,0.717,(1.3248)+(0.0035)Gln+(-0.0868)Cit+(-0.0025)Arg+(-0.0256)Lys+(0.0440)Ile;0.664,0.711,0.699,0.698,0.669,0.786,0.703,0.714,(2.1206)+(0.0024)Pro+(-0.0336)Val+(0.0306)Orn+(-0.0186)Lys+(0.0409)Leu;0.664,0.719,0.744,0.792,0.728,0.745,0.647,0.728,(4.5952)+(-0.1052)Asn+(-0.0007)Gly+(0.0139)Thr+(-0.0416)Tyr+(-0.0054)Leu;0.664,0.717,0.793,0.831,0.756,0.813,0.755,0.789,(4.7092)+(-0.0682)Asn+(-0.0049)Ala+(-0.0064)Arg+(-0.0228)Tyr+(0.0010)Leu;0.664,0.715,0.790,0.820,0.767,0.824,0.732,0.786,(4.3479)+(-0.0945)Asn+(0.0133)Thr+(-0.0064)Ala+(-0.0127)Arg+(-0.0028)Leu;0.664,0.710,0.696,0.666,0.718,0.773,0.678,0.709,(2.5240)+(0.0054)Thr+(-0.0843)Cit+(-0.0047)Pro+(-0.0250)Lys+(0.0504)Ile;0.664,0.707,0.744,0.772,0.740,0.705,0.704,0.730,(2.0739)+(-0.1298)Asn+(0.0024)Gly+(0.0035)Pro+(-0.0224)Leu+(0.0576)Phe;0.664,0.713,0.764,0.784,0.743,0.828,0.709,0.766,(2.8706)+(-0.0076)Ala+(-0.0168)Arg+(0.0311)Orn+(-0.0110)Lys+(-0.0023)Leu;0.664,0.705,0.740,0.758,

0.654,0.813,0.819,0.761,(2.4159)+(-0.0013)Gly+(-0.0103)Ala+(0.0109)Pr

o+(-0.0296)Val+(0.0373)Leu;0.664,0.712,0.714,0.750,0.643,0.783,0.713,0.722,(2.2390)+(-0.0034)Thr+(-0.0102)Ala+(0.0114)Pro+(-0.0453)Tyr+(0.0201)Orn;0.664,0.709,0.758,0.796,0.738,0.776,0.686,0.749,(5.0159)+(-0.0981)Asn+(0.0015)Gly+(-0.0094)Arg+(0.0085)Pro+(-0.0150)Val;0.664,0.710,0.773,0.810,0.739,0.849,0.690,0.772,(2.4590)+(0.0015)Gln+(-0.0067)Ala+(-0.0240)Arg+(-0.0122)Val+(0.0330)Orn;0.664,0.712,0.785,0.811,0.746,0.820,0.776,0.788,(0.8195)+(0.0026)Gln+(-0.0089)Ala+(-0.0169)Arg+(-0.0125)Lys+(0.0461)Phe;0.664,0.726,0.663,0.693,0.643,0.772,0.544,0.663,(0.3089)+(0.0279)Ser+(-0.0083)Thr+(-0.0383)Tyr+(0.0255)Orn+(-0.0168)Lys;0.664,0.713,0.715,0.759,0.708,0.746,0.593,0.702,(2.1619)+(0.0035)Gln+(-0.0696)Cit+(-0.0119)Arg+(0.0055)Pro+(-0.0541)Tyr;0.664,0.708,0.677,0.753,0.628,0.640,0.602,0.656,(0.4475)+(0.0002)Gln+(0.0061)Pro+(-0.0787)Tyr+(-0.0220)Leu+(0.0746)Phe;0.664,0.710,0.721,0.716,0.686,0.796,0.749,0.737,(2.5723)+(-0.0025)Gly+(-0.0337)Val+(0.0336)Orn+(-0.0180)Lys+(0.0420)Leu;0.664,0.709,0.757,0.775,0.756,0.722,0.737,0.747,(2.6568)+(-0.1102)Asn+(0.0036)Pro+(-0.0070)Lys+(-0.0186)Leu+(0.0565)Phe;0.664,0.713,0.756,0.759,0.770,0.770,0.708,0.752,(4.6314)+(-0.0822)Asn+(-0.0697)Cit+(0.0038)Arg+(0.0037)Pro+(-0.0081)Lys;0.664,0.706,0.767,0.781,0.725,0.823,0.776,0.776,(2.5204)+(0.0024)Gln+(-0.0086)Ala+(-0.0723)Cit+(-0.0212)Val+(0.0336)Leu;0.664,0.715,0.690,0.743,0.682,0.743,0.530,0.675,(2.9370)+(-0.0245)Arg+(0.0064)Pro+(-0.0530)Tyr+(0.0289)Orn+(-0.0141)Leu;0.664,0.708,0.687,0.725,0.680,0.734,0.570,0.677,(3.0455)+(-0.0175)Arg+(0.0045)Pro+(-0.0499)Tyr+(0.0299)Orn+(-0.0124)Lys;0.664,0.702,0.654,0.643,0.672,0.730,0.593,0.659,(-0.6760)+(0.0333)Ser+(-0.0008)Gln+(-0.0190)Thr+(-0.0810)Cit+(0.0034)Pro;0.664,0.700,0.741,0.788,0.660,0.787,0.748,0.746,(2.4134)+(-0.0028)Gly+(0.0018)Gln+(-0.0100)Ala+(0.0121)Pro+(-0.0461)Tyr;0.664,0.712,0.768,0.797,0.706,0.812,0.791,0.777,(1.6362)+(-0.0079)Ala+(-0.0184)Arg+(-0.0279)Val+(0.0316)L

eu+(0.0528)Phe;0.664,0.710,0.724,0.715,0.725,0.755,0.720,0.729,(3.131
4)+(-0.0901)Asn+(0.0095)Thr+(-0.0127)Arg+(-0.0155)Lys+(0.0325)Ile;0.6
64,0.707,0.713,0.706,0.754,0.781,0.598,0.710,(1.7896)+(0.0010)Gly+(-0
.0105)Thr+(-0.1078)Cit+(0.0479)Orn+(-0.0159)Leu;0.664,0.707,0.687,0.6
52,0.714,0.761,0.673,0.700,(2.3973)+(0.0038)Thr+(-0.0836)Cit+(-0.0004
)Arg+(-0.0246)Lys+(0.0442)Ile;0.664,0.702,0.693,0.714,0.708,0.783,0.5
38,0.686,(0.9885)+(0.0250)Ser+(0.0001)Gln+(-0.0586)Cit+(-0.0184)Arg+(
-0.0099)Val;0.664,0.708,0.759,0.794,0.732,0.776,0.708,0.752,(4.7763)+
(-0.1112)Asn+(0.0012)Gly+(0.0082)Pro+(-0.0159)Val+(0.0012)Lys;0.664,0
.714,0.694,0.747,0.651,0.742,0.610,0.688,(2.4536)+(-0.0045)Thr+(0.007
4)Pro+(-0.0502)Tyr+(-0.0147)Val+(0.0289)Orn;0.664,0.716,0.677,0.676,0
.662,0.720,0.682,0.685,(-2.1442)+(0.0434)Ser+(-0.0066)Gly+(-0.0167)Th
r+(-0.0271)Arg+(0.0227)Phe;0.663,0.716,0.745,0.778,0.701,0.812,0.697,
0.747,(3.0375)+(-0.0066)Ala+(-0.0335)Tyr+(0.0311)Orn+(-0.0129)Lys+(0.
0016)Leu;0.663,0.711,0.726,0.717,0.712,0.764,0.752,0.736,(2.6398)+(-0
.0893)Asn+(0.0023)Gly+(-0.0020)Pro+(-0.0161)Lys+(0.0382)Ile;0.663,0.7
10,0.710,0.727,0.709,0.768,0.629,0.708,(0.1111)+(0.0360)Ser+(-0.0081)
Gly+(-0.0318)Arg+(0.0041)Pro+(-0.0165)Leu;0.663,0.724,0.643,0.673,0.6
35,0.762,0.493,0.641,(0.9102)+(0.0270)Ser+(-0.0017)Gln+(-0.0415)Tyr+(
0.0245)Orn+(-0.0181)Lys;0.663,0.717,0.636,0.667,0.625,0.739,0.500,0.6
33,(0.7909)+(0.0293)Ser+(-0.0014)Gln+(0.0068)Pro+(-0.0448)Tyr+(-0.016
2)Lys;0.663,0.709,0.702,0.670,0.718,0.770,0.705,0.716,(2.5712)+(-0.08
36)Cit+(0.0031)Arg+(-0.0042)Pro+(-0.0239)Lys+(0.0504)Ile;0.663,0.714,
0.783,0.829,0.757,0.801,0.702,0.773,(5.3478)+(-0.0804)Asn+(0.0006)Gly
+(-0.0064)Arg+(-0.0191)Tyr+(-0.0095)Val;0.663,0.713,0.721,0.740,0.702
,0.803,0.650,0.724,(2.1284)+(0.0001)Gln+(-0.0267)Arg+(-0.0343)Val+(0.
0320)Orn+(0.0339)Leu;0.663,0.711,0.684,0.643,0.711,0.755,0.681,0.698,
(1.7430)+(0.0036)Thr+(-0.0865)Cit+(-0.0268)Lys+(0.0403)Ile+(0.0236)Ph

e;0.663,0.709,0.689,0.649,0.713,0.755,0.696,0.703,(1.7984)+(-0.0851)Cit+(0.0011)Arg+(-0.0258)Lys+(0.0405)Ile+(0.0237)Phe;0.663,0.709,0.751,0.773,0.700,0.787,0.773,0.758,(1.0254)+(-0.0002)Thr+(-0.0124)Ala+(-0.0217)Arg+(0.0092)Pro+(0.0348)Phe;0.663,0.717,0.742,0.786,0.717,0.736,0.684,0.731,(4.5854)+(-0.0822)Asn+(0.0074)Pro+(-0.0394)Tyr+(-0.0026)Lys+(-0.0070)Leu;0.663,0.702,0.724,0.771,0.711,0.735,0.617,0.709,(2.2607)+(-0.0015)Gly+(0.0030)Gln+(0.0026)Thr+(-0.0769)Cit+(-0.0529)Tyr;0.663,0.711,0.774,0.807,0.762,0.725,0.749,0.761,(1.1424)+(-0.1573)Asn+(0.0045)Gln+(0.0056)Thr+(-0.0220)Leu+(0.0543)Phe;0.663,0.699,0.670,0.681,0.702,0.755,0.509,0.662,(0.1834)+(0.0258)Ser+(-0.0673)Cit+(-0.0212)Arg+(0.0040)Pro+(-0.0117)Leu;0.663,0.709,0.739,0.794,0.723,0.773,0.603,0.723,(2.7060)+(0.0028)Gln+(0.0029)Thr+(-0.0711)Cit+(-0.0420)Tyr+(-0.0074)Val;0.663,0.711,0.777,0.796,0.743,0.818,0.772,0.782,(1.5585)+(0.0005)Gly+(-0.0088)Ala+(-0.0142)Arg+(-0.0113)Lys+(0.0490)Phe;0.663,0.711,0.729,0.746,0.706,0.798,0.683,0.733,(2.4907)+(-0.0020)Gly+(-0.0257)Arg+(-0.0345)Val+(0.0334)Orn+(0.0339)Leu;0.663,0.714,0.801,0.828,0.770,0.835,0.770,0.801,(4.2284)+(-0.0750)Asn+(0.0013)Gly+(-0.0058)Ala+(-0.0069)Arg+(-0.0026)Lys;0.663,0.715,0.776,0.785,0.768,0.757,0.784,0.773,(1.1977)+(-0.1266)Asn+(0.0050)Gln+(0.0005)Pro+(-0.0140)Lys+(0.0376)Phe;0.663,0.714,0.740,0.780,0.710,0.783,0.664,0.734,(3.7157)+(-0.0038)Gly+(-0.0420)Tyr+(-0.0107)Val+(0.0376)Orn+(-0.0099)Lys;0.663,0.713,0.736,0.776,0.676,0.805,0.708,0.741,(3.3047)+(0.0052)Thr+(-0.0093)Ala+(0.0122)Pro+(-0.0380)Tyr+(-0.0099)Lys;0.663,0.713,0.762,0.774,0.756,0.737,0.758,0.756,(0.6812)+(-0.1343)Asn+(0.0054)Gln+(-0.0209)Arg+(0.0165)Ile+(0.0196)Phe;0.663,0.715,0.791,0.827,0.750,0.816,0.766,0.790,(4.6333)+(-0.0707)Asn+(-0.0051)Ala+(-0.0228)Tyr+(-0.0025)Lys+(0.0021)Leu;0.663,0.720,0.638,0.625,0.631,0.744,0.610,0.653,(-2.3065)+(0.0356)Ser+(-0.0156)Thr+(0.0179)Orn+(-0.0250)Lys+(0.0366)Phe;0.663,0.71

9,0.707,0.735,0.629,0.805,0.720,0.723,(-2.1168)+(0.0210)Ser+(-0.0108)Ala+(0.0088)Orn+(-0.0127)Leu+(0.0443)Phe;0.663,0.715,0.657,0.665,0.674,0.767,0.520,0.657,(0.0105)+(0.0327)Ser+(-0.0010)Gln+(-0.0216)Arg+(0.0038)Pro+(-0.0180)Lys;0.663,0.719,0.788,0.815,0.767,0.829,0.732,0.786,(4.4491)+(-0.0889)Asn+(0.0144)Thr+(-0.0064)Ala+(-0.0108)Arg+(-0.0052)Lys;0.663,0.718,0.673,0.684,0.585,0.787,0.746,0.700,(-2.2924)+(0.0220)Ser+(-0.0141)Ala+(0.0084)Pro+(0.0003)Orn+(0.0276)Phe;0.663,0.716,0.755,0.784,0.693,0.796,0.777,0.763,(0.5201)+(-0.0053)Thr+(-0.0085)Ala+(-0.0157)Val+(0.0260)Orn+(0.0510)Phe;0.662,0.712,0.738,0.780,0.739,0.791,0.587,0.724,(2.8201)+(0.0039)Gln+(0.0079)Thr+(-0.0780)Cit+(-0.0420)Tyr+(-0.0140)Lys;0.662,0.711,0.712,0.754,0.695,0.818,0.559,0.706,(0.5971)+(0.0281)Ser+(-0.0003)Gln+(-0.0066)Thr+(-0.0241)Arg+(-0.0113)Val;0.662,0.707,0.720,0.763,0.703,0.751,0.620,0.709,(3.9201)+(-0.0004)Gly+(-0.0626)Cit+(0.0086)Pro+(-0.0444)Tyr+(-0.0095)Val;0.662,0.699,0.678,0.686,0.677,0.757,0.602,0.680,(0.3328)+(0.0292)Ser+(-0.0153)Thr+(-0.0708)Cit+(0.0066)Pro+(-0.0106)Val;0.662,0.715,0.736,0.787,0.694,0.769,0.668,0.729,(3.1816)+(-0.0044)Gly+(0.0004)Thr+(-0.0488)Tyr+(-0.0134)Val+(0.0332)Orn;0.662,0.711,0.748,0.792,0.681,0.815,0.727,0.754,(2.6463)+(0.0021)Gln+(-0.0092)Ala+(0.0121)Pro+(-0.0369)Tyr+(-0.0100)Lys;0.662,0.711,0.707,0.780,0.665,0.651,0.642,0.684,(1.0389)+(-0.0032)Gly+(0.0041)Thr+(-0.0774)Tyr+(-0.0194)Leu+(0.0771)Phe;0.662,0.711,0.599,0.560,0.649,0.709,0.519,0.609,(-1.3201)+(0.0305)Ser+(-0.0021)Gln+(-0.0744)Cit+(-0.0228)Arg+(0.0296)Ile;0.662,0.710,0.771,0.797,0.772,0.733,0.727,0.757,(2.8760)+(-0.0993)Asn+(-0.0116)Arg+(-0.0044)Lys+(-0.0177)Leu+(0.0600)Phe;0.662,0.718,0.738,0.791,0.733,0.748,0.602,0.718,(4.8342)+(-0.0954)Asn+(0.0171)Thr+(-0.0151)Arg+(-0.0403)Tyr+(-0.0048)Leu;0.662,0.713,0.783,0.821,0.721,0.815,0.787,0.786,(0.9932)+(0.0013)Gln+(-0.0077)Ala+(-0.0107)Val+(-0.0114)Lys+(0.0581)Phe;0.662,0.707,0.723

,0.746,0.724,0.766,0.631,0.717,(1.4700)+(-0.0231)Arg+(-0.0179)Val+(0.0324)Orn+(-0.0112)Lys+(0.0494)Phe;0.662,0.717,0.789,0.810,0.760,0.838,0.757,0.791,(4.2857)+(-0.0946)Asn+(0.0125)Thr+(-0.0066)Ala+(-0.0069)Lys+(0.0005)Leu;0.662,0.717,0.699,0.737,0.635,0.824,0.642,0.709,(0.6481)+(0.0250)Ser+(-0.0016)Gln+(-0.0071)Ala+(-0.0349)Tyr+(0.0026)Leu;0.662,0.698,0.679,0.684,0.693,0.753,0.585,0.679,(-0.0913)+(0.0303)Ser+(-0.0001)Gln+(-0.0156)Thr+(-0.0783)Cit+(-0.0061)Leu;0.662,0.717,0.651,0.687,0.629,0.743,0.535,0.649,(0.2767)+(0.0303)Ser+(-0.0073)Thr+(0.0070)Pro+(-0.0419)Tyr+(-0.0149)Lys;0.662,0.712,0.758,0.776,0.740,0.827,0.701,0.761,(2.7833)+(0.0026)Thr+(-0.0079)Ala+(-0.0173)Arg+(0.0294)Orn+(-0.0123)Lys;0.662,0.708,0.769,0.797,0.721,0.822,0.759,0.775,(2.1461)+(0.0025)Gln+(-0.0103)Ala+(-0.0161)Arg+(0.0103)Pro+(-0.0099)Lys;0.662,0.707,0.773,0.797,0.764,0.830,0.688,0.770,(3.7631)+(0.0071)Thr+(-0.0077)Ala+(-0.0696)Cit+(-0.0074)Arg+(-0.0048)Val;0.662,0.716,0.778,0.819,0.769,0.790,0.679,0.764,(4.0773)+(0.0003)Gly+(-0.0073)Arg+(-0.0012)Tyr+(-0.0063)Val+(-0.1606)Met;0.662,0.711,0.733,0.730,0.743,0.737,0.720,0.732,(2.4066)+(-0.1127)

Asn+(0.0062)Thr+(0.0191)Orn+(-0.0167)Lys+(0.0355)Phe;0.662,0.710,0.786,0.834,0.730,0.809,0.759,0.783,(0.8536)+(0.0020)Gln+(-0.0077)Ala+(-0.0220)Arg+(-0.0133)Val+(0.0596)Phe;0.662,0.708,0.733,0.776,0.657,0.785,0.737,0.739,(2.9508)+(-0.0024)Gly+(0.0028)Thr+(-0.0100)Ala+(0.0123)Pro+(-0.0457)Tyr;0.662,0.707,0.782,0.808,0.749,0.808,0.763,0.782,(1.6466)+(-0.0083)Ala+(-0.0151)Arg+(-0.0093)Lys+(-0.0073)Leu+(0.0551)Phe;0.662,0.715,0.787,0.835,0.759,0.797,0.713,0.776,(5.3940)+(-0.0849)Asn+(-0.0082)Arg+(-0.0211)Tyr+(-0.0107)Val+(0.0044)Lys;0.662,0.713,0.666,0.675,0.671,0.771,0.554,0.668,(-0.3892)+(0.0345)Ser+(-0.0087)Thr+(-0.0192)Arg+(0.0045)Pro+(-0.0162)Lys;0.662,0.705,0.732,0.749,0.645,0.817,0.805,0.754,(2.3409)+(-0.0004)Gln+(-0.0104)Ala+(0.0110)Pro+(-0.0297

)Val+(0.0378)Leu;0.662,0.710,0.760,0.769,0.776,0.772,0.697,0.753,(4.8259)+(-0.0819)Asn+(-0.0651)Cit+(0.0048)Pro+(-0.0051)Lys+(-0.0062)Leu;0.662,0.715,0.669,0.652,0.660,0.742,0.678,0.683,(0.0728)+(0.0419)Ser+(-0.0085)Gly+(-0.0012)Gln+(0.0028)Pro+(-0.0233)Lys;0.662,0.717,0.675,0.692,0.694,0.792,0.508,0.672,(0.0455)+(0.0284)Ser+(-0.0240)Arg+(0.0214)Orn+(-0.0185)Lys+(-0.0045)Leu;0.662,0.710,0.757,0.770,0.770,0.762,0.693,0.749,(4.6655)+(-0.0902)Asn+(-0.0647)Cit+(-0.0012)Arg+(0.0048)Pro+(-0.0092)Leu;0.661,0.706,0.739,0.772,0.662,0.784,0.779,0.749,(1.0304)+(-0.0006)Gln+(-0.0108)Ala+(0.0105)Pro+(-0.0149)Val+(0.0486)Phe;0.661,0.709,0.743,0.781,0.682,0.803,0.728,0.748,(3.3742)+(-0.0092)Ala+(0.0126)Pro+(-0.0354)Tyr+(-0.0083)Lys+(-0.0001)Leu;0.661,0.706,0.746,0.780,0.667,0.782,0.791,0.755,(0.9897)+(-0.0010)Gly+(-0.0108)Ala+(0.0104)Pro+(-0.0149)Val+(0.0471)Phe;0.661,0.710,0.779,0.822,0.728,0.804,0.751,0.776,(1.4520)+(0.0004)Gly+(-0.0075)Ala+(-0.0194)Arg+(-0.0132)Val+(0.0625)Phe;0.661,0.716,0.640,0.677,0.622,0.743,0.506,0.637,(0.4244)+(0.0275)Ser+(0.0063)Pro+(-0.0457)Tyr+(-0.0172)Lys+(0.0008)Leu;0.661,0.713,0.745,0.790,0.660,0.824,0.744,0.755,(2.8245)+(0.0057)Thr+(-0.0066)Ala+(-0.0319)Tyr+(-0.0274)Val+(0.0412)Leu;0.661,0.704,0.671,0.657,0.700,0.739,0.597,0.674,(-0.4035)+(0.0334)Ser+(-0.0055)Gly+(-0.0662)Cit+(-0.0223)Arg+(0.0011)Pro;0.661,0.719,0.681,0.663,0.673,0.770,0.682,0.697,(-0.1495)+(0.0389)Ser+(-0.0092)Gly+(0.0191)Orn+(-0.0251)Lys+(-0.0030)Leu;0.661,0.713,0.728,0.748,0.710,0.779,0.679,0.729,(0.0825)+(0.0404)Ser+(-0.0078)Gly+(-0.0107)Thr+(-0.0246)Arg+(-0.0110)Leu;0.661,0.710,0.654,0.642,0.704,0.764,0.505,0.654,(-0.4693)+(0.0182)Ser+(-0.1104)Cit+(0.0002)Pro+(0.0348)Orn+(-0.0156)Leu;0.661,0.706,0.771,0.800,0.743,0.838,0.707,0.772,(3.2308)+(-0.0016)Gly+(-0.0065)Ala+(-0.0217)Arg+(-0.0123)Val+(0.0356)Orn;0.661,0.714,0.772,0.790,0.771,0.792,0.711,0.766,(2.2510)+(-0.1080)Asn+(0.0052)Gln+(-0.0160)Arg+(0.0226)Orn+(-

0.0113)Lys;0.661,0.708,0.722,0.741,0.717,0.778,0.638,0.719,(0.2738)+(0.0362)Ser+(-0.0080)Gly+(-0.0002)Gln+(-0.0299)Arg+(-0.0136)Leu;0.661,0.709,0.703,0.702,0.674,0.793,0.703,0.718,(2.3311)+(-0.0004)Gln+(-0.0336)Val+(0.0323)Orn+(-0.0181)Lys+(0.0423)Leu;0.661,0.717,0.697,0.746,0.666,0.802,0.558,0.693,(0.9811)+(0.0267)Ser+(-0.0038)Thr+(-0.0299)Tyr+(-0.0057)Val+(-0.0115)Lys;0.661,0.706,0.639,0.627,0.685,0.725,0.513,0.637,(-1.8525)+(0.0198)Ser+(-0.1126)Cit+(0.0319)Orn+(-0.0227)Leu+(0.0388)Phe;0.661,0.709,0.778,0.810,0.723,0.811,0.784,0.782,(1.4781)+(-0.0003)Gly+(-0.0075)Ala+(-0.0108)Val+(-0.0103)Lys+(0.0597)Phe;0.661,0.707,0.654,0.636,0.687,0.716,0.586,0.656,(-1.4837)+(0.0338)Ser+(-0.0048)Gly+(-0.0699)Cit+(-0.0242)Arg+(0.0227)Phe;0.661,0.711,0.726,0.739,0.745,0.725,0.654,0.716,(1.8013)+(-0.1188)Asn+(0.0027)Gly+(-0.0182)Arg+(0.0162)Orn+(0.0304)Phe;0.661,0.717,0.777,0.819,0.767,0.787,0.682,0.764,(4.0217)+(-0.0089)Arg+(-0.0019)Tyr+(-0.0072)Val+(-0.1679)Met+(0.0037)Lys;0.661,0.713,0.769,0.810,0.761,0.799,0.655,0.756,(5.2814)+(-0.1121)Asn+(0.0002)Gly+(0.0160)Thr+(-0.0138)Arg+(-0.0137)Val;0.661,0.712,0.800,0.824,0.764,0.838,0.785,0.803,(4.1238)+(-0.0794)Asn+(0.0011)Gly+(-0.0060)Ala+(-0.0043)Lys+(0.0009)Leu;0.661,0.707,0.755,0.778,0.673,0.807,0.825,0.771,(1.0164)+(-0.0007)Gly+(-0.0089)Ala+(-0.0285)Val+(0.0324)Leu+(0.0440)Phe;0.661,0.713,0.635,0.667,0.613,0.719,0.541,0.635,(-0.0754)+(0.0303)Ser+(-0.0025)Gln+(-0.0139)Thr+(-0.0487)Tyr+(0.0208)Orn;0.661,0.711,0.746,0.774,0.748,0.711,0.691,0.731,(2.1198)+(-0.1398)Asn+(0.0019)Gly+(0.0067)Thr+(-0.0215)Leu+(0.0588)Phe;0.661,0.707,0.678,0.753,0.630,0.640,0.605,0.657,(0.5521)+(-0.0005)Thr+(0.0062)Pro+(-0.0781)Tyr+(-0.0219)Leu+(0.0747)Phe;0.661,0.705,0.674,0.661,0.702,0.741,0.599,0.676,(-0.1724)+(0.0338)Ser+(-0.0055)Gly+(-0.0004)Gln+(-0.0653)Cit+(-0.0213)Arg;0.661,0.718,0.731,0.739,0.664,0.839,0.774,0.754,(-0.3250)+(0.0297)Ser+(-0.0076)Gly+(-0.0095)Ala+(0.0130)Orn+(-0.006

3)Leu;0.661,0.709,0.574,0.609,0.559,0.673,0.443,0.571,(0.1971)+(0.025
8)Ser+(-0.0037)Gln+(0.0051)Pro+(-0.0636)Tyr+(0.0129)Orn;0.661,0.705,0
.764,0.775,0.729,0.819,0.768,0.773,(3.6398)+(-0.0078)Ala+(-0.0626)Cit
+(-0.0036)Arg+(-0.0224)Val+(0.0362)Leu;0.661,0.712,0.696,0.773,0.650,
0.661,0.612,0.674,(0.3270)+(0.0005)Gln+(0.0006)Thr+(-0.0741)Tyr+(-0.0
193)Leu+(0.0760)Phe;0.660,0.712,0.771,0.815,0.727,0.800,0.725,0.767,(
1.3622)+(0.0070)Thr+(-0.0079)Ala+(-0.0231)Arg+(-0.0141)Val+(0.0625)Ph
e;0.660,0.705,0.742,0.786,0.671,0.792,0.736,0.746,(3.2115)+(-0.0021)G
ly+(-0.0095)Ala+(0.0129)Pro+(-0.0419)Tyr+(-0.0045)Leu;0.660,0.713,0.7
02,0.740,0.705,0.730,0.577,0.688,(3.3024)+(0.0004)Gly+(-0.0662)Cit+(-
0.0077)Arg+(0.0062)Pro+(-0.0508)Tyr;0.660,0.708,0.714,0.703,0.707,0.7
53,0.730,0.724,(2.6568)+(-0.0996)Asn+(0.0019)Gly+(0.0059)Thr+(-0.0172
)Lys+(0.0341)Ile;0.660,0.707,0.717,0.708,0.756,0.780,0.615,0.715,(1.8
931)+(-0.0103)Thr+(-0.1062)Cit+(0.0012)Pro+(0.0474)Orn+(-0.0169)Leu;0
.660,0.712,0.764,0.780,0.769,0.736,0.728,0.754,(0.8764)+(-0.1358)Asn+
(0.0051)Gln+(-0.0214)Arg+(0.0122)Orn+(0.0264)Phe;0.660,0.709,0.681,0.
674,0.627,0.766,0.748,0.704,(-0.3584)+(0.0284)Ser+(-0.0095)Gly+(-0.03
49)Val+(0.0170)Orn+(0.0335)Leu;0.660,0.712,0.632,0.680,0.601,0.733,0.
498,0.628,(1.3263)+(0.0234)Ser+(-0.0024)Gln+(0.0088)Pro+(-0.0480)Tyr+
(-0.0115)Val;0.660,0.713,0.734,0.769,0.662,0.867,0.699,0.749,(0.5242)
+(0.0277)Ser+(-0.0011)Gln+(-0.0097)Thr+(-0.0066)Ala+(-0.0067)Val;0.66
0,0.708,0.729,0.753,0.667,0.816,0.731,0.742,(2.2145)+(-0.0009)Gln+(-0
.0101)Ala+(0.0109)Pro+(-0.0137)Val+(0.0237)Orn;0.660,0.705,0.707,0.69
9,0.701,0.751,0.708,0.715,(0.8910)+(0.0022)Gln+(-0.0002)Thr+(-0.0197)
Arg+(-0.0229)Lys+(0.0361)Ile;0.660,0.720,0.665,0.680,0.655,0.794,0.55
6,0.671,(0.1285)+(0.0238)Ser+(0.0044)Pro+(-0.0122)Val+(0.0213)Orn+(-0
.0198)Lys;0.660,0.707,0.751,0.774,0.670,0.808,0.817,0.767,(1.0104)+(-
0.0003)Gln+(-0.0089)Ala+(-0.0286)Val+(0.0326)Leu+(0.0449)Phe;0.660,0.

715,0.722,0.771,0.695,0.784,0.602,0.713,(2.7395)+(0.0009)Gln+(-0.0399)Tyr+(-0.0102)Val+(0.0334)Orn+(-0.0116)Lys;0.660,0.708,0.715,0.755,0.715,0.743,0.588,0.700,(3.7206)+(-0.0630)Cit+(-0.0078)Arg+(0.0074)Pro+(-0.0473)Tyr+(-0.0071)Leu;0.660,0.708,0.760,0.789,0.717,0.792,0.748,0.762,(1.2926)+(-0.0112)Ala+(-0.0217)Arg+(0.0103)Pro+(-0.0148)Leu+(0.0493)Phe;0.660,0.713,0.678,0.664,0.655,0.755,0.708,0.695,(-0.3766)+(0.0446)Ser+(-0.0083)Gly+(-0.0117)Thr+(0.0040)Pro+(-0.0201)Lys;0.660,0.715,0.732,0.780,0.730,0.746,0.600,0.714,(4.7990)+(-0.0911)Asn+(0.0180)Thr+(-0.0134)Arg+(-0.0409)Tyr+(-0.0049)Lys;0.660,0.712,0.716,0.749,0.720,0.755,0.596,0.705,(3.8575)+(0.0009)Gly+(-0.0699)Cit+(0.0064)Pro+(-0.0423)Tyr+(-0.0097)Lys;0.660,0.711,0.644,0.632,0.656,0.709,0.605,0.650,(-1.4981)+(0.0384)Ser+(-0.0064)Gly+(-0.0020)Gln+(-0.0333)Arg+(0.0171)Phe;0.660,0.708,0.763,0.793,0.767,0.715,0.713,0.747,(2.7613)+(-0.1070)Asn+(-0.0144)Arg+(0.0040)Pro+(-0.0223)Leu+(0.0579)Phe;0.660,0.712,0.770,0.811,0.761,0.798,0.658,0.757,(5.2961)+(-0.1126)Asn+(0.0160)Thr+(-0.0140)Arg+(-0.0139)Val+(0.0006)Lys;0.660,0.710,0.746,0.762,0.750,0.742,0.699,0.739,(2.3351)+(-0.1004)Asn+(0.0026)Gly+(-0.0106)Arg+(-0.0102)Lys+(0.0439)Phe;0.660,0.709,0.632,0.621,0.622,0.729,0.612,0.646,(-2.3039)+(0.0369)Ser+(-0.0143)Thr+(0.0027)Pro+(-0.0237)Lys+(0.0384)Phe;0.660,0.705,0.707,0.699,0.701,0.751,0.708,0.715,(0.8998)+(-0.0001)Gly+(0.0022)Gln+(-0.0198)Arg+(-0.0229)Lys+(0.0360)Ile;0.659,0.714,0.690,0.733,0.698,0.724,0.538,0.673,(3.2567)+(0.0070)Thr+(-0.0657)Cit+(-0.0115)Arg+(0.0058)Pro+(-0.0556)Tyr;0.659,0.712,0.601,0.557,0.673,0.728,0.477,0.609,(-0.4755)+(0.0243)Ser+(-0.0036)Gln+(-0.1099)Cit+(-0.0019)Pro+(0.0326)Orn;0.659,0.697,0.690,0.703,0.692,0.769,0.593,0.689,(0.5784)+(0.0281)Ser+(-0.0001)Gln+(-0.0123)Thr+(-0.0711)Cit+(-0.0082)Val;0.659,0.711,0.617,0.586,0.659,0.723,0.532,0.625,(-1.7497)+(0.0277)Ser+(-0.0770)Cit+(-0.0238)Arg+(-0.0035)Pro+(0.0327)Ile;0.659,0.721,0

.648,0.683,0.632,0.764,0.503,0.645,(0.4226)+(0.0253)Ser+(-0.0432)Tyr+(0.0224)Orn+(-0.0197)Lys+(0.0021)Leu;0.659,0.708,0.749,0.787,0.743,0.789,0.635,0.738,(2.6073)+(0.0045)Gln+(-0.0768)Cit+(-0.0388)Tyr+(-0.0127)Lys+(0.0023)Leu;0.659,0.709,0.770,0.791,0.737,0.815,0.749,0.773,(1.5580)+(0.0072)Thr+(-0.0091)Ala+(-0.0169)Arg+(-0.0132)Lys+(0.0483)Phe;0.659,0.708,0.753,0.762,0.751,0.752,0.733,0.750,(1.1675)+(-0.1280)Asn+(0.0050)Gln+(-0.0213)Arg+(0.0094)Orn+(0.0184)Ile;0.659,0.704,0.741,0.789,0.726,0.754,0.636,0.726,(2.4103)+(-0.0015)Gly+(0.0035)Gln+(-0.0748)Cit+(-0.0476)Tyr+(-0.0047)Leu;0.659,0.709,0.705,0.705,0.675,0.795,0.704,0.720,(2.1671)+(0.0004)Thr+(-0.0335)Val+(0.0316)Orn+(-0.0186)Lys+(0.0421)Leu;0.659,0.705,0.714,0.709,0.702,0.758,0.716,0.722,(0.8893)+(0.0025)Gln+(-0.0191)Arg+(-0.0041)Pro+(-0.0231)Lys+(0.0416)Ile;0.659,0.704,0.725,0.777,0.717,0.749,0.588,0.708,(2.2920)+(0.0029)Gln+(0.0018)Thr+(-0.0772)Cit+(-0.0479)Tyr+(-0.0044)Leu;0.659,0.715,0.740,0.779,0.697,0.814,0.675,0.741,(3.0277)+(0.0032)Thr+(-0.0065)Ala+(-0.0347)Tyr+(0.0302)Orn+(-0.0133)Lys;0.659,0.714,0.620,0.602,0.619,0.722,0.600,0.636,(-2.9139)+(0.0365)Ser+(-0.0204)Thr+(-0.0284)Arg+(0.0062)Orn+(0.0288)Ile;0.659,0.706,0.747,0.770,0.713,0.824,0.704,0.753,(2.3752)+(-0.0106)Ala+(-0.0231)Arg+(0.0101)Pro+(0.0236)Orn+(-0.0107)Leu;0.659,0.700,0.671,0.671,0.666,0.722,0.646,0.676,(-1.0495)+(0.0297)Ser+(-0.0052)Gly+(-0.0730)Cit+(-0.0158)Val+(0.0458)Phe;0.659,0.709,0.670,0.636,0.728,0.740,0.591,0.674,(0.4926)+(-0.0989)Cit+(-0.0169)Arg+(-0.0055)Pro+(0.0317)Orn+(0.0223)Ile;0.659,0.703,0.670,0.671,0.615,0.725,0.744,0.689,(-1.2322)+(0.0303)Ser+(-0.0086)Gly+(-0.0324)Val+(0.0271)Leu+(0.0276)Phe;0.659,0.700,0.676,0.691,0.708,0.763,0.505,0.667,(0.3329)+(0.0258)Ser+(-0.0001)Gln+(-0.06

76)Cit+(-0.0194)Arg+(-0.0088)Leu;0.659,0.711,0.742,0.748,0.745,0.735,0.723,0.738,(2.2124)+(-0.1083)Asn+(0.0023)Gly+(0.0015)Pro+(-0.0126)Ly

s+(0.0413)Phe;0.659,0.708,0.609,0.573,0.631,0.699,0.596,0.625,(-1.6984)+(0.0389)Ser+(-0.0058)Gly+(-0.0026)Gln+(-0.0341)Arg+(0.0233)Ile;0.659,0.718,0.689,0.737,0.664,0.797,0.538,0.684,(1.2336)+(0.0260)Ser+(-0.0006)Gln+(-0.0314)Tyr+(-0.0058)Val+(-0.0122)Lys;0.659,0.703,0.658,0.715,0.635,0.663,0.555,0.642,(0.9427)+(-0.0255)Arg+(0.0032)Pro+(-0.0759)Tyr+(0.0185)Orn+(0.0504)Phe;0.659,0.710,0.761,0.771,0.754,0.745,0.759,0.757,(1.2555)+(-0.1365)Asn+(0.0047)Gln+(0.0074)Thr+(-0.0155)Lys+(0.0383)Phe;0.659,0.709,0.761,0.806,0.671,0.831,0.777,0.771,(2.5592)+(0.0012)Gln+(-0.0064)Ala+(-0.0293)Tyr+(-0.0263)Val+(0.0394)Leu;0.659,0.711,0.559,0.493,0.628,0.694,0.494,0.577,(-1.3562)+(0.0268)Ser+(-0.0044)Gln+(-0.1086)Cit+(0.0241)Orn+(0.0209)Ile;0.659,0.716,0.691,0.686,0.678,0.755,0.686,0.701,(-1.3282)+(0.0418)Ser+(-0.0071)Gly+(-0.0176)Thr+(-0.0265)Arg+(0.0152)Orn;0.659,0.711,0.716,0.773,0.677,0.772,0.607,0.707,(2.4348)+(-0.0000)Gln+(-0.0032)Thr+(-0.0442)Tyr+(-0.0130)Val+(0.0311)Orn;0.659,0.705,0.758,0.808,0.734,0.779,0.662,0.746,(2.8283)+(-0.0018)Gly+(0.0036)Gln+(-0.0682)Cit+(-0.0413)Tyr+(-0.0074)Val;0.659,0.718,0.665,0.677,0.668,0.801,0.528,0.669,(0.8836)+(0.0262)Ser+(-0.0024)Gln+(-0.0107)Val+(0.0259)Orn+(-0.0178)Lys;0.658,0.711,0.773,0.787,0.732,0.819,0.790,0.782,(1.3648)+(-0.0006)Gly+(0.0034)Thr+(-0.0093)Ala+(-0.0161)Lys+(0.0457)Phe;0.658,0.702,0.728,0.777,0.648,0.791,0.723,0.735,(2.1727)+(0.0010)Gln+(-0.0007)Thr+(-0.0101)Ala+(0.0122)Pro+(-0.0434)Tyr;0.658,0.710,0.722,0.716,0.758,0.783,0.621,0.719,(1.6180)+(0.0009)Gln+(-0.0108)Thr+(-0.1074)Cit+(0.0470)Orn+(-0.0163)Leu;0.658,0.714,0.801,0.830,0.769,0.831,0.768,0.800,(4.1474)+(-0.0785)Asn+(0.0014)Gly+(-0.0059)Ala+(-0.0082)Arg+(-0.0011)Leu;0.658,0.711,0.762,0.804,0.749,0.810,0.641,0.751,(2.8733)+(0.0043)Gln+(-0.0717)Cit+(-0.0344)Tyr+(-0.0046)Val+(-0.0094)Lys;0.658,0.706,0.742,0.765,0.678,0.816,0.761,0.755,(2.2376)+(-0.0023)Gly+(-0.0101)Ala+(0.0106)Pro+(-0.0140)Val+(0.02

37)Orn;0.658,0.715,0.672,0.691,0.683,0.785,0.518,0.669,(-0.0113)+(0.0307)Ser+(-0.0231)Arg+(0.0043)Pro+(-0.0165)Lys+(-0.0048)Leu;0.658,0.709,0.766,0.796,0.720,0.849,0.721,0.772,(2.4115)+(0.0009)Gln+(-0.0068)Ala+(-0.0091)Val+(0.0313)Orn+(-0.0119)Lys;0.658,0.705,0.712,0.757,0.701,0.759,0.580,0.699,(2.3402)+(0.0025)Gln+(-0.0197)Arg+(-0.0459)Tyr+(0.0295)Orn+(-0.0132)Lys;0.658,0.704,0.764,0.786,0.718,0.825,0.756,0.771,(2.9943)+(-0.0001)Gly+(-0.0103)Ala+(-0.0134)Arg+(0.0109)Pro+(-0.0086)Lys;0.658,0.710,0.733,0.768,0.709,0.769,0.663,0.727,(3.9107)+(-0.0530)Cit+(-0.0063)Arg+(-0.0349)Tyr+(-0.0232)Val+(0.0316)Leu;0.658,0.705,0.759,0.782,0.716,0.824,0.742,0.766,(2.9264)+(0.0040)Thr+(-0.0104)Ala+(-0.0151)Arg+(0.0105)Pro+(-0.0096)Lys;0.658,0.708,0.752,0.771,0.754,0.726,0.718,0.742,(2.6647)+(-0.1236)Asn+(0.0101)Thr+(-0.0091)Lys+(-0.0172)Leu+(0.0583)Phe;0.658,0.712,0.725,0.729,0.665,0.831,0.763,0.747,(0.2539)+(0.0333)Ser+(-0.0071)Gly+(-0.0017)Gln+(-0.0089)Ala+(-0.0029)Leu;0.658,0.709,0.772,0.794,0.732,0.845,0.743,0.778,(3.0615)+(-0.0021)Gly+(-0.0066)Ala+(-0.0095)Val+(0.0335)Orn+(-0.0111)Lys;0.658,0.710,0.664,0.713,0.616,0.752,0.571,0.663,(0.5226)+(0.0258)Ser+(-0.0114)Thr+(0.0092)Pro+(-0.0432)Tyr+(-0.0109)Val;0.658,0.709,0.680,0.639,0.720,0.740,0.657,0.689,(0.3818)+(-0.0115)Thr+(-0.1095)Cit+(-0.0050)Pro+(0.0354)Orn+(0.0224)Ile;0.658,0.709,0.767,0.778,0.779,0.779,0.707,0.761,(4.8773)+(-0.0801)Asn+(-0.0677)Cit+(0.0037)Arg+(-0.0060)Lys+(-0.0024)Leu;0.658,0.709,0.717,0.724,0.725,0.718,0.683,0.712,(1.5510)+(-0.1164)Asn+(0.0035)Gly+(-0.0173)Arg+(0.0199)Ile+(0.0236)Phe;0.658,0.713,0.681,0.672,0.665,0.755,0.687,0.695,(-0.1034)+(0.0403)Ser+(-0.0089)Gly+(0.0030)Pro+(-0.0230)Lys+(-0.0029)Leu;0.658,0.713,0.725,0.732,0.681,0.797,0.749,0.740,(-0.2134)+(0.0358)Ser+(-0.0083)Gly+(-0.0178)Thr+(-0.0145)Val+(0.0242)Orn;0.658,0.725,0.692,0.710,0.673,0.817,0.597,0.699,(0.0700)+(0.0277)Ser+(-0.0119)Thr+(-0.0098)Val+(0.0275)Orn+(-0.0157)Ly

s;0.658,0.712,0.720,0.739,0.701,0.802,0.651,0.723,(2.1664)+(-0.0001)Thr+(-0.0265)Arg+(-0.0343)Val+(0.0322)Orn+(0.0339)Leu;0.658,0.720,0.727,0.743,0.657,0.838,0.749,0.747,(-0.8074)+(0.0281)Ser+(-0.0174)Thr+(-0.0085)Ala+(0.0203)Orn+(-0.0030)Leu;0.658,0.706,0.757,0.795,0.749,0.788,0.650,0.746,(2.7262)+(-0.0009)Gly+(0.0047)Gln+(-0.0749)Cit+(-0.0388)Tyr+(-0.0118)Lys;0.658,0.705,0.709,0.752,0.707,0.758,0.561,0.695,(3.2621)+(-0.0183)Arg+(-0.0428)Tyr+(0.0339)Orn+(-0.0100)Lys+(-0.0060)Leu;0.658,0.705,0.620,0.607,0.668,0.702,0.498,0.619,(-1.4779)+(0.0301)Ser+(-0.0017)Gln+(-0.0741)Cit+(-0.0225)Arg+(0.0288)Phe;0.658,0.713,0.598,0.573,0.620,0.722,0.529,0.611,(-1.3620)+(0.0348)Ser+(-0.0033)Gln+(0.0152)Orn+(-0.0286)Lys+(0.0382)Phe;0.658,0.710,0.764,0.798,0.736,0.842,0.675,0.763,(2.9508)+(0.0015)Thr+(-0.0066)Ala+(-0.0229)Arg+(-0.0123)Val+(0.0342)Orn;0.658,0.709,0.736,0.760,0.716,0.784,0.680,0.735,(4.2431)+(-0.0572)Cit+(-0.0302)Tyr+(-0.0226)Val+(-0.0087)Lys+(0.0355)Leu;0.658,0.705,0.734,0.785,0.656,0.799,0.715,0.738,(2.3310)+(0.0011)Gln+(-0.0097)Ala+(0.0126)Pro+(-0.0423)Tyr+(-0.0046)Leu;0.657,0.707,0.723,0.760,0.734,0.773,0.568,0.709,(4.1323)+(-0.0005)Gly+(0.0113)Thr+(-0.0710)Cit+(-0.0414)Tyr+(-0.0121)Lys;0.657,0.709,0.709,0.705,0.763,0.764,0.567,0.700,(0.9341)+(-0.0946)Cit+(-0.0178)Arg+(0.0422)Orn+(-0.0240)Leu+(0.0386)Phe;0.657,0.708,0.786,0.804,0.737,0.823,0.811,0.794,(0.8965)+(-0.0009)Gly+(0.0018)Gln+(-0.0092)Ala+(-0.0162)Lys+(0.0438)Phe;0.657,0.712,0.772,0.807,0.717,0.811,0.767,0.776,(1.3235)+(0.0049)Thr+(-0.0078)Ala+(-0.0111)Val+(-0.0121)Lys+(0.0599)Phe;0.657,0.709,0.773,0.797,0.763,0.789,0.719,0.767,(2.5217)+(-0.1191)Asn+(0.0044)Gln+(0.0238)Orn+(-0.0097)Lys+(-0.0102)Leu;0.657,0.706,0.764,0.775,0.729,0.827,0.765,0.774,(2.6194)+(-0.0016)Gly+(-0.0002)Thr+(-0.0082)Ala+(0.0280)Orn+(-0.0153)Lys;0.657,0.715,0.716,0.763,0.693,0.783,0.588,0.707,(3.0214)+(0.0015)Thr+(-0.0399)Tyr+(-0.0104)Val+(0.0339)Orn+(-0.0113)Lys;0.6

57,0.710,0.731,0.727,0.745,0.723,0.718,0.728,(2.0118)+(-0.1109)Asn+(-0.0177)Arg+(0.0132)Orn+(0.0142)Ile+(0.0179)Phe;0.657,0.695,0.682,0.683,0.677,0.746,0.642,0.687,(0.5936)+(0.0294)Ser+(-0.0064)Gly+(-0.0677)Cit+(0.0046)Pro+(-0.0132)Val;0.657,0.701,0.692,0.676,0.697,0.748,0.683,0.701,(1.5827)+(-0.0181)Arg+(-0.0042)Pro+(0.0188)Orn+(-0.0238)Lys+(0.0378)Ile;0.657,0.710,0.783,0.804,0.707,0.864,0.824,0.800,(2.4965)+(0.0018)Gln+(-0.0070)Ala+(-0.0275)Val+(-0.0118)Lys+(0.0440)Leu;0.657,0.707,0.759,0.811,0.744,0.796,0.623,0.743,(2.7278)+(0.0040)Gln+(-0.0616)Cit+(-0.0114)Arg+(-0.0372)Tyr+(-0.0073)Val;0.657,0.711,0.759,0.790,0.771,0.725,0.674,0.740,(2.7753)+(-0.1232)Asn+(0.0119)Thr+(-0.0185)Arg+(-0.0219)Leu+(0.0608)Phe;0.657,0.704,0.662,0.645,0.622,0.754,0.723,0.686,(0.8045)+(0.0349)Ser+(-0.0080)Gly+(-0.0035)Gln+(-0.0336)Val+(0.0377)Leu;0.657,0.707,0.728,0.765,0.717,0.771,0.621,0.718,(4.2410)+(-0.0621)Cit+(0.0084)Pro+(-0.0396)Tyr+(-0.0079)Val+(-0.0056)Lys;0.657,0.707,0.751,0.776,0.668,0.810,0.817,0.768,(0.8666)+(0.0002)Thr+(-0.0090)Ala+(-0.0286)Val+(0.0324)Leu+(0.0443)Phe;0.657,0.699,0.769,0.810,0.713,0.835,0.732,0.773,(2.5396)+(0.0021)Gln+(-0.0092)Ala+(-0.0199)Arg+(0.0120)Pro+(-0.0110)Val;0.657,0.711,0.692,0.686,0.668,0.764,0.707,0.706,(-0.0476)+(0.0436)Ser+(-0.0083)Gly+(-0.0002)Gln+(-0.0094)Thr+(-0.0191)Lys;0.657,0.705,0.772,0.786,0.729,0.831,0.780,0.781,(2.1261)+(-0.0022)Gly+(0.0017)Gln+(-0.0083)Ala+(0.0263)Orn+(-0.0164)Lys;0.657,0.708,0.764,0.803,0.683,0.819,0.793,0.774,(3.3663)+(-0.0017)Gly+(-0.0061)Ala+(-0.0284)Tyr+(-0.0266)Val+(0.0402)Leu;0.657,0.710,0.722,0.755,0.722,0.757,0.609,0.711,(4.0227)+(-0.0678)Cit+(0.0067)Pro+(-0.0426)Tyr+(-0.0088)Lys+(-0.0020)Leu;0.657,0.705,0.763,0.798,0.742,0.771,0.709,0.755,(5.1398)+(-0.1008)Asn+(-0.0106)Arg+(0.0085)Pro+(-0.0162)Val+(0.0035)Lys;0.656,0.712,0.621,0.605,0.617,0.720,0.602,0.636,(-2.8352)+(0.0365)Ser+(-0.0189)Thr+(-0.0279)Arg+(-0.0014)Pro+(0.0325)Ile;0.656,0.71

1,0.716,0.750,0.728,0.770,0.561,0.702,(3.9910)+(0.0115)Thr+(-0.0728)C
it+(-0.0424)Tyr+(-0.0134)Lys+(0.0034)Leu;0.656,0.710,0.735,0.778,0.72
0,0.744,0.642,0.721,(4.6863)+(-0.0963)Asn+(-0.0008)Gly+(0.0158)Thr+(-
0.0414)Tyr+(-0.0070)Lys;0.656,0.706,0.764,0.775,0.728,0.827,0.764,0.7
74,(2.6292)+(-0.0016)Gly+(-0.0081)Ala+(0.0280)Orn+(-0.0153)Lys+(-0.00
05)Leu;0.656,0.707,0.663,0.678,0.607,0.732,0.689,0.677,(-1.9699)+(0.0
287)Ser+(-0.0174)Thr+(-0.0284)Val+(0.0242)Leu+(0.0387)Phe;0.656,0.706
,0.724,0.769,0.711,0.764,0.607,0.712,(4.1319)+(-0.0556)Cit+(-0.0079)A
rg+(0.0088)Pro+(-0.0416)Tyr+(-0.0096)Val;0.656,0.710,0.764,0.791,0.72
2,0.847,0.718,0.770,(2.7219)+(-0.0005)Thr+(-0.0067)Ala+(-0.0092)Val+(
0.0326)Orn+(-0.0112)Lys;0.656,0.702,0.650,0.694,0.618,0.665,0.592,0.6
42,(0.8053)+(-0.0253)Arg+(-0.0749)Tyr+(0.0137)Orn+(0.0239)Ile+(0.0388
)Phe;0.656,0.714,0.761,0.779,0.690,0.859,0.792,0.780,(2.9624)+(0.0082
)Thr+(-0.0072)Ala+(-0.0294)Val+(-0.0134)Lys+(0.0472)Leu;0.656,0.708,0
.776,0.803,0.763,0.780,0.724,0.768,(2.3430)+(-0.1351)Asn+(-0.0002)Gly
+(0.0042)Gln+(0.0205)Orn+(-0.0153)Leu;0.656,0.704,0.778,0.806,0.731,0
.809,0.778,0.781,(0.3865)+(-0.0002)Gly+(0.0019)Gln+(-0.0102)Ala+(-0.0
232)Arg+(0.0388)Phe;0.656,0.712,0.690,0.704,0.635,0.834,0.666,0.710,(
0.0435)+(0.0242)Ser+(-0.0030)Gln+(-0.0094)Ala+(0.0154)Orn+(-0.0040)Le
u;0.656,0.709,0.617,0.649,0.588,0.699,0.531,0.617,(-0.0965)+(0.0318)S
er+(-0.0022)Gln+(-0.0130)Thr+(0.0070)Pro+(-0.0521)Tyr;0.656,0.708,0.7
32,0.774,0.736,0.794,0.566,0.717,(4.2366)+(0.0105)Thr+(-0.0670)Cit+(-
0.0366)Tyr+(-0.0050)Val+(-0.0095)Lys;0.656,0.710,0.778,0.798,0.729,0.
824,0.795,0.787,(0.8131)+(0.0014)Gln+(0.0017)Thr+(-0.0093)Ala+(-0.016
7)Lys+(0.0446)Phe;0.656,0.706,0.747,0.762,0.739,0.749,0.724,0.743,(1.
0123)+(-0.1292)Asn+(0.0018)Gly+(0.0051)Gln+(-0.0206)Arg+(0.0230)Ile;0
.656,0.706,0.728,0.716,0.718,0.758,0.761,0.738,(2.9426)+(-0.0945)Asn+
(0.0075)Thr+(-0.0026)Pro+(-0.0176)Lys+(0.0364)Ile;0.656,0.712,0.655,0

.662,0.635,0.744,0.611,0.663,(-2.1131)+(0.0351)Ser+(-0.0127)Thr+(-0.0209)Lys+(-0.0078)Leu+(0.0477)Phe;0.656,0.709,0.760,0.774,0.723,0.828,0.750,0.769,(2.3770)+(-0.0012)Thr+(-0.0081)Ala+(0.0277)Orn+(-0.0151)Lys+(0.0000)Leu;0.656,0.698,0.712,0.759,0.712,0.734,0.573,0.695,(3.4209)+(-0.0008)Gly+(0.0055)Thr+(-0.0712)Cit+(-0.0474)Tyr+(-0.0037)Leu;0.656,0.714,0.615,0.596,0.614,0.712,0.599,0.630,(-3.2001)+(0.0373)Ser+(-0.0198)Thr+(-0.0288)Arg+(0.0281)Ile+(0.0093)Phe;0.656,0.708,0.782,0.807,0.733,0.819,0.793,0.788,(0.7923)+(0.0016)Gln+(-0.0089)Ala+(-0.0150)Lys+(-0.0049)Leu+(0.0489)Phe;0.656,0.707,0.773,0.802,0.762,0.780,0.717,0.765,(2.3383)+(-0.1386)Asn+(0.0041)Gln+(0.0019)Thr+(0.0196)Orn+(-0.0153)Leu;0.656,0.706,0.694,0.678,0.701,0.748,0.679,0.702,(0.9490)+(0.0017)Gln+(-0.0210)Arg+(0.0155)Orn+(-0.0243)Lys+(0.0324)Ile;0.656,0.708,0.602,0.581,0.616,0.722,0.541,0.615,(-1.4290)+(0.0357)Ser+(-0.0030)Gln+(0.0017)Pro+(-0.0271)Lys+(0.0398)Phe;0.656,0.710,0.683,0.673,0.668,0.760,0.685,0.697,(0.2054)+(0.0411)Ser+(-0.0086)Gly+(-0.0009)Gln+(-0.0221)Lys+(-0.0006)Leu;0.656,0.695,0.670,0.669,0.612,0.742,0.745,0.692,(-0.2841)+(0.0304)Ser+(-0.0093)Gly+(0.0035)Pro+(-0.0330)Val+(0.0313)Leu;0.656,0.709,0.720,0.752,0.722,0.753,0.610,0.709,(3.9999)+(-0.0673)Cit+(-0.0011)Arg+(0.0064)Pro+(-0.0429)Tyr+(-0.0092)Lys;0.656,0.711,0.806,0.831,0.776,0.833,0.786,0.806,(4.3900)+(-0.0721)Asn+(-0.0059)Ala+(-0.0065)Arg+(-0.0028)Lys+(0.0001)Leu;0.655,0.710,0.681,0.704,0.681,0.783,0.548,0.679,(-0.0367)+(0.0330)Ser+(-0.0002)Gln+(-0.0063)Thr+(-0.0185)Arg+(-0.0152)Lys;0.655,0.706,0.665,0.716,0.623,0.667,0.618,0.656,(0.2427)+(0.0019)Gln+(-0.0259)Arg+(-0.0750)Tyr+(0.0271)Ile+(0.0403)Phe;0.655,0.709,0.720,0.758,0.735,0.775,0.551,0.705,(4.1201)+(0.0121)Thr+(-0.0679)Cit+(-0.0051)Arg+(-0.0410)Tyr+(-0.0113)Lys;0.655,0.710,0.770,0.810,0.703,0.832,0.760,0.776,(3.5965)+(-0.0057)Ala+(-0.0125)Arg+(-0.0231)Tyr+(-0.0261)V

al+(0.0400)Leu;0.655,0.703,0.753,0.759,0.759,0.732,0.737,0.747,(2.702
7)+(-0.0945)Asn+(-0.0097)Arg+(0.0016)Pro+(-0.0109)Lys+(0.0397)Phe;0.6
55,0.705,0.779,0.799,0.738,0.812,0.789,0.785,(1.3716)+(-0.0003)Gly+(-
0.0087)Ala+(-0.0137)Lys+(-0.0052)Leu+(0.0507)Phe;0.655,0.706,0.764,0.
792,0.761,0.732,0.717,0.750,(0.6658)+(-0.1384)Asn+(0.0018)Gly+(0.0053
)Gln+(-0.0201)Arg+(0.0332)Phe;0.655,0.702,0.737,0.755,0.648,0.819,0.8
13,0.759,(2.2622)+(-0.0017)Thr+(-0.0103)Ala+(0.0111)Pro+(-0.0293)Val+
(0.0372)Leu;0.655,0.701,0.715,0.751,0.706,0.749,0.611,0.704,(3.5255)+
(-0.0025)Gly+(-0.0159)Arg+(-0.0468)Tyr+(0.0339)Orn+(-0.0121)Lys;0.655
,0.707,0.753,0.795,0.748,0.791,0.629,0.741,(2.6378)+(0.0047)Gln+(-0.0
727)Cit+(-0.0046)Arg+(-0.0377)Tyr+(-0.0110)Lys;0.655,0.701,0.757,0.77
5,0.705,0.819,0.777,0.769,(2.7392)+(-0.0008)Gly+(0.0008)Thr+(-0.0106)
Ala+(0.0105)Pro+(-0.0124)Lys;0.655,0.712,0.628,0.614,0.625,0.733,0.59
5,0.642,(-1.7114)+(0.0387)Ser+(-0.0021)Gln+(-0.0117)Thr+(-0.0227)Lys+
(0.0435)Phe;0.655,0.713,0.718,0.737,0.645,0.846,0.727,0.739,(-0.2400)
+(0.0305)Ser+(-0.0014)Gln+(-0.0126)Thr+(-0.0081)Ala+(0.0007)Leu;0.655
,0.699,0.677,0.733,0.651,0.668,0.588,0.660,(1.3037)+(-0.0019)Gly+(-0.
0240)Arg+(-0.0742)Tyr+(0.0214)Orn+(0.0513)Phe;0.655,0.710,0.656,0.642
,0.674,0.735,0.599,0.663,(-0.8548)+(0.0371)Ser+(-0.0069)Gly+(-0.0019)
Gln+(-0.0327)Arg+(0.0089)Orn;0.655,0.694,0.663,0.695,0.638,0.692,0.61
3,0.659,(1.9478)+(-0.0015)Gly+(-0.0234)Arg+(-0.0644)Tyr+(0.0171)Orn+(
0.0307)Ile;0.655,0.708,0.606,0.573,0.651,0.706,0.529,0.615,(-2.2219)+
(0.0282)Ser+(-0.0778)Cit+(-0.0257)Arg+(0.0248)Ile+(0.0103)Phe;0.655,0
.704,0.674,0.735,0.649,0.679,0.559,0.655,(0.4813)+(0.0014)Gln+(-0.027
0)Arg+(-0.0739)Tyr+(0.0183)Orn+(0.0517)Phe;0.655,0.693,0.690,0.692,0.
690,0.758,0.638,0.694,(1.0084)+(0.0308)Ser+(-0.0062)Gly+(-0.0009)Gln+
(-0.0661)Cit+(-0.0110)Val;0.655,0.707,0.775,0.797,0.730,0.815,0.779,0
.780,(1.2511)+(0.0030)Thr+(-0.0089)Ala+(-0.0148)Lys+(-0.0051)Leu+(0.0

505)Phe;0.654,0.704,0.645,0.659,0.612,0.720,0.624,0.654,(-1.3610)+(0.0328)Ser+(-0.0033)Gln+(-0.0155)Thr+(-0.0165)Val+(0.0537)Phe;0.654,0.702,0.687,0.732,0.689,0.740,0.526,0.672,(3.1016)+(0.0068)Thr+(-0.0197)Arg+(-0.0479)Tyr+(0.0301)Orn+(-0.0134)Lys;0.654,0.706,0.742,0.752,0.755,0.773,0.669,0.737,(3.4597)+(-0.0882)Asn+(0.0010)Gly+(-0.0124)Arg+(0.0273)Orn+(-0.0107)Lys;0.654,0.707,0.711,0.715,0.721,0.732,0.666,0.708,(2.0883)+(-0.1099)Asn+(0.0027)Gly+(-0.0181)Arg+(0.0131)Orn+(0.0212)Ile;0.654,0.702,0.764,0.790,0.719,0.825,0.748,0.771,(3.0636)+(-0.0101)Ala+(-0.0139)Arg+(0.0112)Pro+(-0.0076)Lys+(-0.0030)Leu;0.654,0.702,0.770,0.793,0.732,0.827,0.747,0.775,(1.5626)+(-0.0013)Gly+(0.0017)Gln+(-0.0094)Ala+(-0.0242)Arg+(0.0222)Orn;0.654,0.714,0.736,0.782,0.724,0.750,0.632,0.722,(4.6448)+(-0.0985)Asn+(0.0152)Thr+(-0.0395)Tyr+(-0.0061)Lys+(-0.0022)Leu;0.654,0.699,0.759,0.777,0.707,0.821,0.776,0.770,(2.7871)+(-0.0008)Gly+(-0.0105)Ala+(0.0107)Pro+(-0.0117)Lys+(-0.0015)Leu;0.654,0.703,0.730,0.778,0.724,0.760,0.596,0.715,(3.9125)+(-0.0013)Gly+(0.0070)Thr+(-0.0644)Cit+(-0.0415)Tyr+(-0.0075)Val;0.654,0.708,0.678,0.640,0.730,0.740,0.627,0.684,(0.6486)+(-0.0090)Thr+(-0.0975)Cit+(-0.0132)Arg+(0.0335)Orn+(0.0171)Ile;0.654,0.704,0.781,0.815,0.779,0.801,0.681,0.769,(2.5352)+(-0.1182)Asn+(0.0051)Gln+(-0.0199)Arg+(0.0243)Orn+(-0.0150)Leu;0.654,0.702,0.767,0.791,0.729,0.825,0.738,0.771,(1.4680)+(0.0016)Gln+(-0.0025)Thr+(-0.0092)Ala+(-0.0235)Arg+(0.0232)Orn;0.654,0.708,0.777,0.795,0.707,0.853,0.823,0.794,(3.2310)+(-0.0007)Gly+(-0.0068)Ala+(-0.0279)Val+(-0.0100)Lys+(0.0447)Leu;0.654,0.707,0.713,0.769,0.678,0.781,0.591,0.705,(3.3354)+(0.0112)Thr+(-0.0218)Arg+(-0.0412)Tyr+(-0.0282)Val+(0.0358)Leu;0.654,0.706,0.775,0.803,0.729,0.810,0.772,0.778,(0.3605)+(0.0017)Gln+(0.0009)Thr+(-0.0103)Ala+(-0.0237)Arg+(0.0390)Phe;0.654,0.705,0.766,0.778,0.757,0.783,0.738,0.764,(2.1955)+(-0.1163)Asn+(-0.0003)Gly+(0.0045)Gln+(0.0209)Orn+(-0.0137)Lys;

0.654,0.704,0.746,0.769,0.748,0.694,0.717,0.732,(2.3628)+(-0.1359)Asn+(0.0065)Thr+(0.0028)Pro+(-0.0231)Leu+(0.0557)Phe;0.654,0.708,0.660,0.655,0.663,0.716,0.623,0.664,(-1.9193)+(0.0362)Ser+(-0.0069)Gly+(-0.0353)Arg+(-0.0003)Pro+(0.0141)Phe;0.654,0.707,0.640,0.619,0.647,0.718,0.626,0.652,(-2.2256)+(0.0361)Ser+(-0.0063)Gly+(-0.0362)Arg+(-0.0032)Pro+(0.0248)Ile;0.654,0.703,0.748,0.762,0.743,0.744,0.728,0.744,(1.2039)+(-0.1343)Asn+(0.0052)Gln+(0.0052)Thr+(-0.0220)Arg+(0.0205)Ile;0.654,0.707,0.684,0.739,0.639,0.781,0.562,0.680,(0.8562)+(0.0263)Ser+(-0.0012)Gln+(-0.0079)Thr+(-0.0348)Tyr+(-0.0081)Val;0.654,0.705,0.730,0.778,0.657,0.792,0.711,0.735,(2.7506)+(0.0006)Thr+(-0.0097)Ala+(0.0128)Pro+(-0.0415)Tyr+(-0.0043)Leu;0.654,0.701,0.765,0.786,0.707,0.821,0.792,0.776,(2.1879)+(-0.0015)Gly+(0.0019)Gln+(-0.0106)Ala+(0.0101)Pro+(-0.0135)Lys;0.654,0.707,0.766,0.784,0.723,0.831,0.761,0.775,(1.9334)+(0.0013)Gln+(-0.0022)Thr+(-0.0082)Ala+(0.0266)Orn+(-0.0157)Lys;0.654,0.703,0.628,0.619,0.671,0.706,0.506,0.626,(-1.8577)+(0.0279)Ser+(-0.0760)Cit+(-0.0239)Arg+(-0.0002)Pro+(0.0267)Phe;0.654,0.695,0.652,0.685,0.630,0.687,0.584,0.647,(1.6752)+(-0.0243)Arg+(0.0008)Pro+(-0.0640)Tyr+(0.0157)Orn+(0.0308)Ile;0.654,0.695,0.642,0.644,0.635,0.715,0.596,0.648,(-1.3071)+(0.0233)Ser+(-0.0763)Cit+(-0.0252)Val+(0.0194)Leu+(0.0416)Phe;0.653,0.696,0.638,0.632,0.683,0.731,0.491,0.634,(-0.3533)+(0.0277)Ser+(-0.0011)Gln+(-0.0713)Cit+(-0.0207)Arg+(0.0018)Pro;0.653,0.717,0.672,0.714,0.651,0.771,0.534,0.667,(0.6384)+(0.0294)Ser+(-0.0006)Gln+(-0.0044)Thr+(-0.0343)Tyr+(-0.0139)Lys;0.653,0.711,0.670,0.675,0.621,0.783,0.674,0.688,(-0.8370)+(0.0255)Ser+(-0.0186)Thr+(-0.0312)Val+(0.0227)Orn+(0.0325)Leu;0.653,0.710,0.693,0.687,0.668,0.765,0.709,0.707,(-0.1069)+(0.0434)Ser+(-0.0083)Gly+(-0.0096)Thr+(-0.0191)Lys+(-0.0001)Leu;0.653,0.703,0.769,0.793,0.728,0.808,0.762,0.773,(0.8702)+(0.0003)Gly+(0.0023)Thr+(-0.0102)Ala+(-0.0222)Arg+(0.0410)Phe;0.653,0.

708,0.763,0.777,0.752,0.758,0.757,0.761,(1.1421)+(-0.1261)Asn+(0.0056)Gln+(-0.0202)Arg+(-0.0023)Pro+(0.0246)Ile;0.653,0.711,0.686,0.711,0.684,0.787,0.549,0.683,(-0.0310)+(0.0326)Ser+(-0.0063)Thr+(-0.0188)Arg+(-0.0148)Lys+(-0.0011)Leu;0.653,0.705,0.762,0.773,0.755,0.781,0.733,0.761,(2.1632)+(-0.1170)Asn+(0.0044)Gln+(0.0008)Pro+(0.0203)Orn+(-0.0138)Lys;0.653,0.705,0.744,0.748,0.756,0.771,0.688,0.741,(3.5289)+(-0.0869)Asn+(-0.0122)Arg+(0.0016)Pro+(0.0267)Orn+(-0.0112)Lys;0.653,0.707,0.640,0.601,0.687,0.728,0.584,0.650,(-1.3489)+(0.0260)Ser+(-0.0049)Gly+(-0.1077)Cit+(-0.0030)Pro+(0.0277)Orn;0.653,0.703,0.704,0.694,0.699,0.746,0.708,0.712,(0.6289)+(0.0021)Gln+(-0.0201)Arg+(-0.0237)Lys+(0.0338)Ile+(0.0107)Phe;0.653,0.701,0.710,0.758,0.645,0.728,0.708,0.710,(3.2670)+(-0.0030)Gly+(0.0075)Pro+(-0.0493)Tyr+(-0.0276)Val+(0.0307)Leu;0.653,0.698,0.762,0.790,0.710,0.815,0.760,0.769,(1.6050)+(0.0018)Gln+(-0.0011)Thr+(-0.0113)Ala+(-0.0210)Arg+(0.0101)Pro;0.653,0.694,0.660,0.697,0.635,0.697,0.584,0.653,(1.1871)+(0.0015)Gln+(-0.0262)Arg+(-0.0642)Tyr+(0.0140)Orn+(0.0313)Ile;0.653,0.703,0.711,0.760,0.664,0.753,0.646,0.706,(3.4975)+(-0.0174)Arg+(0.0082)Pro+(-0.0413)Tyr+(-0.0274)Val+(0.0312)Leu;0.653,0.703,0.743,0.757,0.746,0.767,0.685,0.739,(3.6810)+(-0.1002)Asn+(0.0031)Pro+(0.0271)Orn+(-0.0088)Lys+(-0.0120)Leu;0.653,0.705,0.764,0.792,0.752,0.769,0.713,0.756,(2.3192)+(-0.1363)Asn+(0.0040)Gln+(0.0026)Pro+(0.0194)Orn+(-0.0167)Leu;0.653,0.695,0.636,0.636,0.646,0.706,0.563,0.638,(-0.7760)+(0.0275)Ser+(-0.0028)Gln+(-0.0752)Cit+(-0.0155)Val+(0.0546)Phe;0.653,0.709,0.635,0.642,0.633,0.727,0.556,0.639,(-2.0011)+(0.0303)Ser+(0.0020)Pro+(-0.0257)Lys+(-0.0097)Leu+(0.0440)Phe;0.653,0.708,0.705,0.770,0.681,0.755,0.549,0.689,(3.6185)+(0.0085)Thr+(-0.0225)Arg+(0.0088)Pro+(-0.0459)Tyr+(-0.0125)Val;0.653,0.702,0.763,0.782,0.731,0.824,0.736,0.768,(2.1072)+(-0.0007)Gly+(-0.0009)Thr+(-0.0091)Ala+(-0.0220)Arg+(0.0246)Orn;0.653,0.697,0.728,0

.795,0.692,0.764,0.602,0.713,(2.7338)+(0.0028)Gln+(-0.0217)Arg+(0.008
6)Pro+(-0.0435)Tyr+(-0.0122)Val;0.653,0.696,0.764,0.791,0.711,0.815,0
.766,0.771,(1.6514)+(-0.0007)Gly+(0.0019)Gln+(-0.0114)Ala+(-0.0213)Ar
g+(0.0099)Pro;0.653,0.710,0.767,0.800,0.694,0.840,0.783,0.779,(3.5438
)+(-0.0058)Ala+(-0.0219)Tyr+(-0.0261)Val+(-0.0081)Lys+(0.0436)Leu;0.6
53,0.708,0.671,0.698,0.703,0.784,0.451,0.659,(0.0235)+(0.0257)Ser+(-0
.0018)Gln+(-0.0320)Arg+(0.0175)Orn+(-0.0148)Leu;0.653,0.699,0.690,0.7
45,0.627,0.730,0.650,0.688,(2.6175)+(0.0001)Gln+(0.0072)Pro+(-0.0485)
Tyr+(-0.0277)Val+(0.0307)Leu;0.653,0.704,0.747,0.782,0.665,0.786,0.79
6,0.757,(0.9753)+(-0.0037)Thr+(-0.0107)Ala+(0.0107)Pro+(-0.0145)Val+(
0.0480)Phe;0.653,0.704,0.744,0.795,0.738,0.770,0.602,0.726,(2.3516)+(
0.0040)Gln+(-0.0678)Cit+(-0.0116)Arg+(-0.0436)Tyr+(-0.0046)Leu;0.653,
0.719,0.667,0.705,0.645,0.761,0.543,0.664,(0.3191)+(0.0296)Ser+(-0.00
47)Thr+(-0.0364)Tyr+(-0.0158)Lys+(0.0044)Leu;0.653,0.695,0.695,0.684,
0.691,0.748,0.693,0.704,(1.5871)+(0.0008)Gly+(-0.0163)Arg+(-0.0035)Pr
o+(-0.0218)Lys+(0.0420)Ile;0.
653,0.706,0.780,0.804,0.716,0.854,0.798,0.793,(3.4129)+(-0.0064)Ala+(
-0.0103)Arg+(-0.0276)Val+(-0.0069)Lys+(0.0433)Leu;0.652,0.701,0.653,0
.699,0.614,0.653,0.612,0.645,(0.8812)+(-0.0231)Arg+(0.0014)Pro+(-0.07
48)Tyr+(0.0265)Ile+(0.0411)Phe;0.652,0.707,0.762,0.812,0.743,0.759,0.
675,0.747,(4.5910)+(-0.0767)Asn+(0.0006)Gly+(-0.0085)Arg+(-0.0307)Tyr
+(-0.0040)Leu;0.652,0.705,0.742,0.765,0.678,0.820,0.760,0.756,(2.1558
)+(-0.0074)Thr+(-0.0099)Ala+(0.0112)Pro+(-0.0132)Val+(0.0262)Orn;0.65
2,0.707,0.690,0.693,0.677,0.742,0.673,0.696,(-0.8867)+(0.0422)Ser+(-0
.0071)Gly+(-0.0004)Gln+(-0.0141)Thr+(-0.0245)Arg;0.652,0.705,0.762,0.
780,0.718,0.832,0.753,0.771,(1.9395)+(0.0012)Gln+(-0.0083)Ala+(0.0258
)Orn+(-0.0163)Lys+(0.0002)Leu;0.652,0.702,0.784,0.827,0.763,0.797,0.7
01,0.772,(4.9648)+(-0.0953)Asn+(0.0012)Gly+(-0.0092)Arg+(-0.0125)Val+

(0.0031)Lys;0.652,0.695,0.643,0.680,0.622,0.686,0.559,0.637,(1.6226)+(0.0039)Thr+(-0.0262)Arg+(-0.0657)Tyr+(0.0143)Orn+(0.0319)Ile;0.652,0.718,0.651,0.686,0.637,0.755,0.516,0.648,(0.6430)+(0.0290)Ser+(-0.0009)Gln+(-0.0386)Tyr+(-0.0167)Lys+(0.0048)Leu;0.652,0.717,0.698,0.726,0.703,0.803,0.538,0.693,(-0.5611)+(0.0293)Ser+(-0.0148)Thr+(-0.0269)Arg+(0.0217)Orn+(-0.0131)Leu;0.652,0.701,0.697,0.728,0.674,0.730,0.636,0.692,(3.1312)+(-0.0031)Gly+(0.0042)Pro+(-0.0541)Tyr+(0.0293)Orn+(-0.0159)Lys;0.652,0.704,0.725,0.776,0.658,0.752,0.708,0.723,(3.2059)+(-0.0036)Gly+(0.0062)Thr+(-0.0475)Tyr+(-0.0281)Val+(0.0350)Leu;0.652,0.700,0.705,0.697,0.739,0.751,0.620,0.702,(0.7517)+(-0.0107)Thr+(-0.1067)Cit+(0.0455)Orn+(-0.0229)Leu+(0.0368)Phe;0.652,0.703,0.576,0.524,0.647,0.695,0.478,0.586,(-1.2356)+(0.0261)Ser+(-0.0041)Gln+(-0.1102)Cit+(0.0286)Orn+(0.0148)Phe;0.652,0.701,0.679,0.750,0.637,0.664,0.586,0.659,(0.4069)+(0.0021)Gln+(-0.0253)Arg+(0.0039)Pro+(-0.0754)Tyr+(0.0543)Phe;0.652,0.701,0.746,0.769,0.747,0.760,0.673,0.737,(3.4104)+(-0.1202)Asn+(0.0005)Gly+(0.0031)Thr+(0.0236)Orn+(-0.0150)Leu;0.652,0.706,0.626,0.625,0.633,0.727,0.541,0.631,(-1.3323)+(0.0341)Ser+(-0.0027)Gln+(-0.0242)Lys+(-0.0081)Leu+(0.0485)Phe;0.652,0.705,0.772,0.799,0.767,0.732,0.744,0.760,(0.8457)+(-0.1354)Asn+(0.0056)Gln+(-0.0198)Arg+(-0.0002)Pro+(0.0310)Phe;0.652,0.713,0.675,0.696,0.631,0.751,0.658,0.684,(-2.2632)+(0.0277)Ser+(-0.0208)Thr+(-0.0182)Val+(0.0197)Orn+(0.0445)Phe;0.652,0.701,0.770,0.808,0.699,0.804,0.793,0.776,(0.7332)+(-0.0009)Gly+(0.0003)Gln+(-0.0084)Ala+(-0.0136)Val+(0.0542)Phe;0.652,0.699,0.737,0.759,0.735,0.748,0.671,0.728,(3.3381)+(-0.1174)Asn+(0.0007)Gly+(0.0032)Pro+(0.0235)Orn+(-0.0165)Leu;0.652,0.702,0.661,0.706,0.620,0.655,0.630,0.653,(1.0052)+(-0.0006)Gly+(-0.0224)Arg+(-0.0740)Tyr+(0.0278)Ile+(0.0410)Phe;0.652,0.700,0.765,0.798,0.716,0.833,0.731,0.770,(3.4936)+(-0.0089)Ala+(-0.0150)Arg+(0.0125)Pro+(-0.0097)Val+(-0.0034)Lys;0

.652,0.693,0.658,0.700,0.628,0.690,0.585,0.651,(1.1571)+(0.0017)Gln+(0.0048)Thr+(-0.0270)Arg+(-0.0652)Tyr+(0.0351)Ile;0.652,0.703,0.678,0.674,0.667,0.730,0.673,0.686,(-1.2460)+(0.0427)Ser+(-0.0071)Gly+(-0.0160)Thr+(-0.0254)Arg+(0.0029)Pro;0.652,0.700,0.687,0.667,0.698,0.743,0.675,0.696,(1.5012)+(-0.0009)Thr+(-0.0187)Arg+(0.0177)Orn+(-0.0235)Lys+(0.0324)Ile;0.652,0.700,0.721,0.738,0.703,0.747,0.696,0.721,(1.1740)+(-0.0020)Gly+(-0.0167)Val+(0.0290)Orn+(-0.0169)Lys+(0.0440)Phe;0.652,0.704,0.719,0.771,0.720,0.750,0.557,0.700,(2.2395)+(0.0034)Gln+(0.0053)Thr+(-0.0688)Cit+(-0.0139)Arg+(-0.0502)Tyr;0.652,0.700,0.761,0.783,0.701,0.824,0.780,0.772,(2.0713)+(0.0016)Gln+(-0.0011)Thr+(-0.0106)Ala+(0.0103)Pro+(-0.0132)Lys;0.652,0.688,0.648,0.649,0.644,0.745,0.586,0.656,(0.1060)+(0.0217)Ser+(-0.0723)Cit+(0.0036)Pro+(-0.0265)Val+(0.0270)Leu;0.651,0.707,0.728,0.782,0.730,0.778,0.544,0.708,(4.0172)+(0.0095)Thr+(-0.0570)Cit+(-0.0117)Arg+(-0.0391)Tyr+(-0.0076)Val;0.651,0.704,0.730,0.728,0.738,0.740,0.714,0.730,(2.4418)+(-0.1035)Asn+(-0.0171)Arg+(-0.0018)Pro+(0.0149)Orn+(0.0209)Ile;0.651,0.700,0.656,0.646,0.667,0.726,0.606,0.661,(-0.8271)+(0.0376)Ser+(-0.0069)Gly+(-0.0016)Gln+(-0.0318)Arg+(0.0011)Pro;0.651,0.697,0.756,0.780,0.707,0.818,0.753,0.764,(2.2558)+(-0.0001)Gly+(0.0005)Thr+(-0.0113)Ala+(-0.0193)Arg+(0.0104)Pro;0.651,0.701,0.684,0.664,0.695,0.742,0.669,0.693,(1.4630)+(0.0002)Gly+(-0.0191)Arg+(0.0173)Orn+(-0.0237)Lys+(0.0326)Ile;0.651,0.700,0.604,0.589,0.586,0.753,0.572,0.625,(0.6185)+(0.0243)Ser+(-0.0054)Gln+(-0.0367)Val+(0.0218)Orn+(0.0402)Leu;0.651,0.705,0.739,0.745,0.755,0.724,0.698,0.730,(2.1791)+(-0.1124)Asn+(-0.0174)Arg+(-0.0003)Pro+(0.0173)Orn+(0.0269)Phe;0.651,0.692,0.644,0.644,0.642,0.744,0.578,0.652,(0.8970)+(0.0255)Ser+(-0.0024)Gln+(-0.0664)Cit+(-0.0271)Val+(0.0323)Leu;0.651,0.705,0.759,0.805,0.734,0.758,0.690,0.747,(4.4937)+(-0.0801)Asn+(0.0004)Gly+(-0.0314)Tyr+(-0.0030)Lys+(-0.0028)Leu;0.651,0.701,0

.653,0.716,0.634,0.663,0.522,0.634,(0.8439)+(0.0058)Thr+(-0.0280)Arg+(-0.0769)Tyr+(0.0177)Orn+(0.0537)Phe;0.651,0.700,0.755,0.775,0.702,0.822,0.766,0.766,(2.6446)+(0.0002)Thr+(-0.0105)Ala+(0.0107)Pro+(-0.0120)Lys+(-0.0013)Leu;0.651,0.702,0.785,0.820,0.713,0.857,0.793,0.796,(2.3131)+(0.0022)Gln+(-0.0070)Ala+(-0.0180)Arg+(-0.0277)Val+(0.0386)Leu;0.651,0.712,0.630,0.631,0.637,0.720,0.548,0.634,(-2.2167)+(0.0371)Ser+(-0.0019)Gln+(-0.0159)Thr+(-0.0266)Arg+(0.0289)Phe;0.651,0.707,0.618,0.602,0.627,0.729,0.560,0.630,(-2.1353)+(0.0304)Ser+(0.0002)Pro+(0.0122)Orn+(-0.0300)Lys+(0.0339)Phe;0.651,0.702,0.755,0.773,0.766,0.780,0.663,0.746,(4.0057)+(-0.0878)Asn+(-0.0136)Arg+(0.0313)Orn+(-0.0063)Lys+(-0.0113)Leu;0.651,0.704,0.717,0.736,0.701,0.753,0.673,0.716,(0.8729)+(-0.0026)Thr+(-0.0165)Val+(0.0286)Orn+(-0.0164)Lys+(0.0451)Phe;0.651,0.695,0.686,0.672,0.690,0.737,0.681,0.695,(1.5087)+(0.0007)Gly+(0.0011)Thr+(-0.0177)Arg+(-0.0221)Lys+(0.0370)Ile;0.651,0.703,0.757,0.781,0.757,0.723,0.718,0.745,(0.8792)+(-0.1457)Asn+(0.0053)Gln+(0.0070)Thr+(-0.0222)Arg+(0.0304)Phe;0.651,0.700,0.764,0.798,0.700,0.836,0.757,0.773,(2.5539)+(0.0013)Gln+(-0.0094)Ala+(0.0117)Pro+(-0.0089)Val+(-0.0090)Lys;0.651,0.699,0.764,0.793,0.705,0.830,0.763,0.773,(3.2231)+(-0.0011)Gly+(-0.0093)Ala+(0.0120)Pro+(-0.0091)Val+(-0.0076)Lys;0.651,0.704,0.637,0.686,0.607,0.648,0.562,0.626,(0.7210)+(0.0076)Thr+(-0.0275)Arg+(-0.0791)Tyr+(0.0270)Ile+(0.0426)Phe;0.651,0.702,0.786,0.829,0.739,0.806,0.755,0.782,(0.4898)+(0.0021)Gln+(-0.0090)Ala+(-0.0235)Arg+(-0.0123)Leu+(0.0516)Phe;0.651,0.701,0.747,0.763,0.750,0.771,0.682,0.741,(3.6755)+(-0.0989)Asn+(0.0004)Gly+(0.0283)Orn+(-0.0088)Lys+(-0.0101)Leu;0.651,0.706,0.617,0.665,0.600,0.713,0.456,0.609,(0.5676)+(0.0233)Ser+(-0.0029)Gln+(-0.0537)Tyr+(0.0182)Orn+(-0.0068)Leu;0.651,0.702,0.742,0.791,0.730,0.760,0.626,0.727,(2.2832)+(-0.0013)Gly+(0.0042)Gln+(-0.0678)Cit+(-0.0115)Arg+(-0.0479)Tyr;0.651,0.700,0.687,0.740,0.

624,0.728,0.645,0.684,(2.5886)+(0.0014)Thr+(0.0071)Pro+(-0.0495)Tyr+(-0.0279)Val+(0.0310)Leu;0.651,0.707,0.757,0.803,0.737,0.755,0.678,0.743,(4.4904)+(-0.0747)Asn+(0.0007)Gly+(-0.0075)Arg+(-0.0317)Tyr+(-0.0025)Lys;0.651,0.710,0.678,0.701,0.687,0.787,0.520,0.674,(0.1856)+(0.0310)Ser+(-0.0004)Gln+(-0.0210)Arg+(-0.0163)Lys+(-0.0015)Leu;0.651,0.694,0.695,0.682,0.693,0.746,0.694,0.704,(1.6895)+(0.0026)Thr+(-0.0170)Arg+(-0.0037)Pro+(-0.0224)Lys+(0.0415)Ile;0.651,0.705,0.743,0.743,0.734,0.719,0.778,0.744,(0.5903)+(-0.1523)Asn+(0.0040)Gln+(0.0045)Orn+(0.0131)Ile+(0.0160)Phe;0.651,0.696,0.765,0.800,0.713,0.830,0.733,0.769,(3.3774)+(-0.0005)Gly+(-0.0090)Ala+(-0.0169)Arg+(0.0125)Pro+(-0.0107)Val;0.651,0.692,0.668,0.711,0.631,0.695,0.614,0.663,(1.1331)+(0.0020)Gln+(-0.0248)Arg+(0.0008)Pro+(-0.0630)Tyr+(0.0343)Ile;0.651,0.702,0.731,0.738,0.737,0.729,0.703,0.727,(2.2694)+(-0.1192)Asn+(0.0018)Gly+(0.0086)Thr+(-0.0143)Lys+(0.0421)Phe;0.651,0.701,0.736,0.746,0.747,0.728,0.690,0.728,(2.7328)+(-0.1088)Asn+(0.0121)Thr+(-0.0137)Arg+(-0.0127)Lys+(0.0414)Phe;0.650,0.702,0.705,0.744,0.652,0.755,0.675,0.707,(3.3250)+(0.0070)Pro+(-0.0400)Tyr+(-0.0271)Val+(-0.0098)Lys+(0.0355)Leu;0.650,0.699,0.770,0.793,0.684,0.843,0.833,0.788,(2.2304)+(-0.0015)Gly+(0.0008)Gln+(-0.0079)Ala+(-0.0289)Val+(0.0400)Leu;0.650,0.692,0.665,0.699,0.631,0.680,0.631,0.660,(1.9867)+(-0.0008)Gly+(-0.0210)Arg+(0.0013)Pro+(-0.0622)Tyr+(0.0347)Ile;0.650,0.702,0.658,0.620,0.721,0.731,0.576,0.662,(0.4671)+(-0.0964)Cit+(-0.0180)Arg+(0.0295)Orn+(0.0171)Ile+(-0.0041)Phe;0.650,0.711,0.665,0.712,0.631,0.744,0.558,0.661,(-0.3486)+(0.0261)Ser+(-0.0149)Thr+(-0.0460)Tyr+(0.0211)Orn+(-0.0070)Leu;0.650,0.699,0.760,0.784,0.701,0.823,0.772,0.770,(2.1046)+(0.0015)Gln+(-0.0106)Ala+(0.0103)Pro+(-0.0131)Lys+(-0.0013)Leu;0.650,0.698,0.596,0.588,0.575,0.703,0.588,0.613,(-0.6204)+(0.0281)Ser+(-0.0053)Gln+(-0.0339)Val+(0.0314)Leu+(0.0406)Phe;0.650,0.704,0.780,0.808,0.768,0.777,0.7

35,0.772,(2.2289)+(-0.1099)Asn+(0.0059)Gln+(-0.0144)Arg+(0.0021)Pro+(-0.0086)Lys;0.650,0.702,0.718,0.754,0.711,0.755,0.609,0.707,(0.9466)+(0.0002)Gln+(-0.0292)Arg+(-0.0210)Val+(0.0289)Orn+(0.0449)Phe;0.650,0.696,0.656,0.694,0.627,0.679,0.602,0.650,(2.0057)+(-0.0015)Gly+(0.0074)Thr+(-0.0246)Arg+(-0.0664)Tyr+(0.0353)Ile;0.650,0.705,0.713,0.775,0.702,0.768,0.535,0.695,(2.2451)+(0.0020)Gln+(-0.0261)Arg+(-0.0485)Tyr+(0.0285)Orn+(-0.0114)Leu;0.650,0.702,0.680,0.743,0.642,0.652,0.611,0.662,(1.3178)+(-0.0011)Gly+(-0.0214)Arg+(0.0044)Pro+(-0.0748)Tyr+(0.0553)Phe;0.650,0.698,0.739,0.760,0.739,0.749,0.676,0.731,(3.4189)+(-0.1197)Asn+(0.0023)Thr+(0.0030)Pro+(0.0228)Orn+(-0.0168)Leu;0.650,0.695,0.691,0.682,0.741,0.764,0.558,0.686,(1.5018)+(-0.0001)Gly+(-0.0004)Gln+(-0.1086)Cit+(0.0429)Orn+(-0.0172)Leu;0.650,0.700,0.732,0.743,0.659,0.794,0.809,0.751,(0.4405)+(-0.0008)Gly+(-0.0005)Gln+(-0.0133)Ala+(0.0087)Pro+(0.0259)Phe;0.650,0.703,0.732,0.741,0.662,0.789,0.815,0.752,(0.3810)+(-0.0101)Thr+(-0.0129)Ala+(0.0088)Pro+(0.0135)Orn+(0.0238)Phe;0.650,0.699,0.649,0.608,0.697,0.729,0.602,0.659,(-0.1430)+(0.0030)Gly+(-0.0145)Thr+(-0.1115)Cit+(0.0330)Orn+(0.0189)Ile;0.650,0.711,0.638,0.642,0.640,0.737,0.552,0.643,(-2.0084)+(0.0290)Ser+(0.0140)Orn+(-0.0271)Lys+(-0.0097)Leu+(0.0426)Phe;0.650,0.706,0.629,0.604,0.638,0.709,0.619,0.643,(-2.3341)+(0.0361)Ser+(-0.0064)Gly+(-0.0369)Arg+(0.0203)Ile+(0.0007)Phe;0.650,0.705,0.732,0.737,0.721,0.715,0.754,0.732,(0.3858)+(-0.1554)Asn+(0.0019)Gly+(0.0038)Gln+(0.0153)Ile+(0.0187)Phe;0.650,0.701,0.779,0.816,0.739,0.805,0.748,0.777,(1.1275)+(0.0003)Gly+(-0.0088)Ala+(-0.0208)Arg+(-0.0118)Leu+(0.0540)Phe;0.650,0.701,0.747,0.786,0.745,0.789,0.618,0.734,

(4.2606)+(0.0003)Gly+(-0.0632)Cit+(-0.0300)Tyr+(-0.0052)Val+(-0.0060)Lys;0.650,0.700,0.684,0.663,0.696,0.739,0.676,0.693,(1.2201)+(-0.0194)Arg+(0.0168)Orn+(-0.0243)Lys+(0.0304)Ile+(0.0100)Phe;0.650,0.692,0.6

45,0.683,0.619,0.677,0.574,0.638,(1.7332)+(0.0061)Thr+(-0.0251)Arg+(0.0009)Pro+(-0.0655)Tyr+(0.0350)Ile;0.650,0.704,0.787,0.843,0.735,0.842,0.707,0.782,(2.4148)+(0.0038)Gln+(-0.0058)Ala+(-0.0158)Arg+(-0.0286)Tyr+(-0.0066)Lys;0.650,0.712,0.626,0.662,0.589,0.702,0.556,0.627,(-0.9614)+(0.0287)Ser+(-0.0172)Thr+(0.0056)Pro+(-0.0557)Tyr+(0.0153)Orn;0.650,0.706,0.763,0.794,0.702,0.849,0.747,0.773,(2.8918)+(0.0080)Thr+(-0.0072)Ala+(-0.0191)Arg+(-0.0296)Val+(0.0414)Leu;0.650,0.695,0.685,0.670,0.688,0.733,0.686,0.694,(1.1420)+(0.0009)Gly+(-0.0179)Arg+(-0.0228)Lys+(0.0345)Ile+(0.0127)Phe;0.650,0.699,0.769,0.807,0.699,0.801,0.792,0.775,(0.8250)+(-0.0008)Gly+(-0.0004)Thr+(-0.0084)Ala+(-0.0135)Val+(0.0549)Phe;0.649,0.701,0.671,0.626,0.716,0.732,0.654,0.682,(0.4416)+(-0.0127)Thr+(-0.1074)Cit+(0.0340)Orn+(0.0178)Ile+(-0.0051)Phe;0.649,0.701,0.598,0.646,0.576,0.688,0.450,0.590,(0.5377)+(0.0250)Ser+(-0.0026)Gln+(0.0069)Pro+(-0.0567)Tyr+(-0.0073)Leu;0.649,0.700,0.768,0.807,0.697,0.803,0.787,0.774,(0.6418)+(0.0002)Gln+(-0.0011)Thr+(-0.0084)Ala+(-0.0134)Val+(0.0551)Phe;0.649,0.703,0.744,0.744,0.733,0.717,0.783,0.745,(0.5778)+(-0.1540)Asn+(0.0041)Gln+(0.0012)Thr+(0.0141)Ile+(0.0170)Phe;0.649,0.695,0.684,0.726,0.643,0.699,0.649,0.679,(1.3028)+(-0.0018)Gly+(0.0025)Gln+(-0.0242)Arg+(-0.0636)Tyr+(0.0342)Ile;0.649,0.701,0.731,0.763,0.739,0.768,0.603,0.718,(3.9464)+(0.0009)Gly+(-0.0692)Cit+(-0.0344)Tyr+(-0.0096)Lys+(0.0022)Leu;0.649,0.703,0.672,0.704,0.694,0.782,0.463,0.661,(-0.4969)+(0.0238)Ser+(-0.0345)Arg+(0.0033)Pro+(0.0139)Orn+(-0.0174)Leu;0.649,0.703,0.704,0.724,0.688,0.745,0.658,0.704,(0.8182)+(0.0023)Pro+(-0.0172)Val+(0.0265)Orn+(-0.0174)Lys+(0.0434)Phe;0.649,0.701,0.730,0.773,0.736,0.749,0.590,0.712,(3.6679)+(0.0002)Gly+(-0.0641)Cit+(-0.0065)Arg+(-0.0398)Tyr+(-0.0032)Leu;0.649,0.695,0.692,0.684,0.740,0.764,0.563,0.688,(1.3537)+(-0.0003)Gly+(-0.1087)Cit+(0.0000)Pro+(0.0422)Orn+(-0.0174)Leu;0.649,0.702,0.724,0.773,0.715

,0.756,0.591,0.709,(3.4530)+(-0.0030)Gly+(-0.0222)Arg+(-0.0493)Tyr+(0.0331)Orn+(-0.0116)Leu;0.649,0.701,0.756,0.768,0.753,0.773,0.719,0.753,(2.2133)+(-0.1221)Asn+(0.0043)Gln+(0.0041)Thr+(0.0192)Orn+(-0.0142)Lys;0.649,0.691,0.661,0.658,0.676,0.704,0.606,0.661,(-1.4811)+(0.0294)Ser+(-0.0050)Gly+(-0.0846)Cit+(-0.0191)Leu+(0.0400)Phe;0.649,0.697,0.638,0.601,0.707,0.725,0.529,0.640,(-0.0193)+(0.0021)Gly+(-0.0987)Cit+(-0.0189)Arg+(0.0282)Orn+(0.0178)Ile;0.649,0.701,0.751,0.776,0.763,0.777,0.639,0.739,(3.7812)+(-0.0977)Asn+(0.0008)Gly+(-0.0161)Arg+(0.0292)Orn+(-0.0145)Leu;0.649,0.699,0.758,0.797,0.709,0.828,0.709,0.761,(3.2167)+(0.0038)Thr+(-0.0091)Ala+(-0.0192)Arg+(0.0122)Pro+(-0.0111)Val;0.649,0.708,0.639,0.628,0.638,0.762,0.584,0.653,(-1.0669)+(0.0332)Ser+(-0.0159)Thr+(0.0031)Pro+(0.0205)Orn+(-0.0214)Lys;0.649,0.702,0.786,0.818,0.772,0.783,0.736,0.777,(2.2498)+(-0.1096)Asn+(0.0002)Gly+(0.0061)Gln+(-0.0142)Arg+(-0.0080)Lys;0.649,0.705,0.629,0.604,0.637,0.707,0.619,0.642,(-2.3007)+(0.0362)Ser+(-0.0064)Gly+(-0.0367)Arg+(-0.0009)Orn+(0.0208)Ile;0.649,0.696,0.649,0.648,0.624,0.697,0.671,0.660,(-0.6583)+(0.0345)Ser+(-0.0073)Gly+(-0.0037)Gln+(-0.0188)Val+(0.0454)Phe;0.649,0.707,0.670,0.661,0.680,0.740,0.618,0.675,(-1.3644)+(0.0353)Ser+(-0.0073)Gly+(-0.0346)Arg+(-0.0001)Pro+(0.0066)Orn;0.649,0.700,0.758,0.790,0.699,0.832,0.747,0.767,(3.0205)+(0.0011)Thr+(-0.0093)Ala+(0.0119)Pro+(-0.0090)Val+(-0.0083)Lys;0.649,0.696,0.742,0.767,0.674,0.791,0.781,0.753,(0.5232)+(-0.0005)Gln+(-0.0122)Ala+(0.0098)Pro+(-0.0146)Leu+(0.0412)Phe;0.649,0.693,0.767,0.805,0.715,0.828,0.734,0.771,(1.9282)+(0.0020)Gln+(-0.0106)Ala+(-0.0213)Arg+(0.0109)Pro+(-0.0077)Leu;0.649,0.689,0.642,0.649,0.644,0.711,0.570,0.643,(-1.4408)+(0.0231)Ser+(-0.0800)Cit+(0.0026)Pro+(-0.0165)Val+(0.0470)Phe;0.649,0.704,0.655,0.701,0.625,0.737,0.538,0.650,(0.1322)+(0.0292)Ser+(-0.0014)Gln+(-0.0104)Thr+(-0.0426)Tyr+(-0.0029)Leu;0.649,0.694,0.726,0.791,0.665,0.730,

0.679,0.716,(2.8400)+(-0.0040)Gly+(0.0018)Gln+(0.0083)Pro+(-0.0515)Tyr+(-0.0127)Val;0.649,0.699,0.778,0.806,0.712,0.846,0.793,0.789,(3.1492)+(-0.0004)Gly+(-0.0068)Ala+(-0.0145)Arg+(-0.0282)Val+(0.0405)Leu;0.649,0.710,0.658,0.652,0.663,0.720,0.617,0.663,(-1.9463)+(0.0358)Ser+(-0.0070)Gly+(-0.0360)Arg+(0.0042)Orn+(0.0120)Phe;0.649,0.706,0.709,0.750,0.662,0.780,0.650,0.710,(3.2618)+(0.0102)Thr+(-0.0387)Tyr+(-0.0282)Val+(-0.0139)Lys+(0.0419)Leu;0.649,0.706,0.765,0.811,0.744,0.762,0.689,0.751,(4.6983)+(-0.0737)Asn+(-0.0077)Arg+(-0.0307)Tyr+(-0.0013)Lys+(-0.0034)Leu;0.648,0.701,0.710,0.744,0.704,0.751,0.604,0.701,(1.0088)+(-0.0295)Arg+(0.0030)Pro+(-0.0217)Val+(0.0277)Orn+(0.0426)Phe;0.648,0.701,0.747,0.792,0.741,0.776,0.617,0.732,(4.1427)+(-0.0001)Gly+(-0.0575)Cit+(-0.0062)Arg+(-0.0327)Tyr+(-0.0070)Val;0.648,0.700,0.723,0.755,0.717,0.751,0.630,0.713,(1.2242)+(-0.0012)Gly+(-0.0285)Arg+(-0.0211)Val+(0.0299)Orn+(0.0440)Phe;0.648,0.699,0.768,0.795,0.740,0.827,0.713,0.769,(2.5342)+(-0.0011)Gly+(-0.0082)Ala+(-0.0223)Arg+(0.0280)Orn+(-0.0081)Leu;0.648,0.698,0.730,0.733,0.719,0.729,0.745,0.731,(0.8731)+(-0.1484)Asn+(0.0014)Gly+(0.0037)Gln+(0.0053)Orn+(0.0182)Ile;0.648,0.702,0.763,0.827,0.714,0.821,0.655,0.754,(2.2629)+(0.0028)Gln+(0.0076)Thr+(-0.0066)Ala+(-0.0225)Arg+(-0.0369)Tyr;0.648,0.701,0.597,0.538,0.643,0.695,0.585,0.615,(-2.3646)+(0.0263)Ser+(-0.0043)Gly+(-0.1078)Cit+(0.0190)Orn+(0.0157)Ile;0.648,0.708,0.639,0.629,0.645,0.764,0.563,0.650,(-0.3847)+(0.0340)Ser+(-0.0018)Gln+(-0.0135)Thr+(0.0235)Orn+(-0.0201)Lys;0.648,0.706,0.702,0.679,0.755,0.761,0.607,0.700,(1.3187)+(-0.0076)Thr+(-0.0990)Cit+(-0.0124)Arg+(-0.0017)Pro+(0.0406)Orn;0.648,0.704,0.707,0.754,0.717,0.736,0.542,0.687,(3.5098)+(-0.0008)Gly+(0.0087)Thr+(-0.0640)Cit+(-0.0112)Arg+(-0.0493)Tyr;0.648,0.703,0.735,0.770,0.742,0.771,0.604,0.722,(4.0110)+(0.0007)Gly+(-0.0682)Cit+(-0.0003)Arg+(-0.0336)Tyr+(-0.0088)Lys;0.648,0.686,0.668,0.663,0.685,0.728,0.604

,0.670,(-0.1224)+(0.0293)Ser+(-0.0058)Gly+(-0.0791)Cit+(0.0023)Pro+(-0.0129)Leu;0.648,0.697,0.740,0.755,0.665,0.788,0.821,0.757,(0.4496)+(0.0001)Gln+(-0.0077)Thr+(-0.0129)Ala+(0.0093)Pro+(0.0278)Phe;0.648,0.704,0.713,0.762,0.725,0.746,0.531,0.691,(3.5843)+(0.0083)Thr+(-0.0638)Cit+(-0.0111)Arg+(-0.0457)Tyr+(-0.0037)Leu;0.648,0.700,0.737,0.738,0.742,0.730,0.731,0.735,(2.5211)+(-0.1152)Asn+(0.0091)Thr+(0.0005)Pro+(-0.0147)Lys+(0.0400)Phe;0.648,0.698,0.743,0.797,0.669,0.764,0.739,0.742,(2.7917)+(-0.0034)Gly+(0.0015)Gln+(-0.0447)Tyr+(-0.0269)Val+(0.0330)Leu;0.648,0.703,0.653,0.667,0.646,0.778,0.543,0.658,(0.7701)+(0.0284)Ser+(-0.0020)Gln+(0.0061)Pro+(-0.0107)Val+(-0.0164)Lys;0.648,0.705,0.686,0.665,0.744,0.758,0.572,0.685,(0.9887)+(0.0020)Gly+(-0.0092)Thr+(-0.1007)Cit+(-0.0125)Arg+(0.0395)Orn;0.648,0.703,0.674,0.684,0.631,0.718,0.706,0.685,(-1.5388)+(0.0282)Ser+(-0.0087)Gly+(-0.0206)Val+(0.0136)Orn+(0.0353)Phe;0.648,0.694,0.749,0.796,0.679,0.801,0.733,0.752,(2.2185)+(-0.0034)Gly+(0.0013)Gln+(-0.0075)Ala+(-0.0448)Tyr+(0.0235)Orn;0.648,0.699,0.762,0.784,0.678,0.842,0.819,0.781,(2.4209)+(-0.0015)Gly+(0.0023)Thr+(-0.0079)Ala+(-0.0295)Val+(0.0409)Leu;0.648,0.697,0.749,0.774,0.682,0.792,0.793,0.760,(0.5411)+(-0.0011)Gly+(-0.0122)Ala+(0.0097)Pro+(-0.0147)Leu+(0.0400)Phe;0.648,0.699,0.670,0.627,0.713,0.728,0.654,0.681,(0.1321)+(0.0004)Gln+(-0.0132)Thr+(-0.1079)Cit+(0.0332)Orn+(0.0164)Ile;0.648,0.697,0.739,0.754,0.665,0.788,0.820,0.757,(0.5001)+(-0.0001)Gly+(-0.0075)Thr+(-0.0129)Ala+(0.0093)Pro+(0.0279)Phe;0.648,0.697,0.747,0.770,0.758,0.767,0.649,0.736,(3.8436)+(-0.0978)Asn+(-0.0167)Arg+(0.0037)Pro+(0.0279)Orn+(-0.0168)Leu;0.647,0.706,0.689,0.709,0.611,0.821,0.702,0.711,(-0.7676)+(0.0201)Ser+(-0.0122)Ala+(0.0101)Pro+(0.0077)Orn+(-0.0082)Leu;0.647,0.695,0.690,0.681,0.739,0.765,0.556,0.685,(1.4924)+(-0.0004)Gln+(-0.1086)Cit+(0.0001)Pro+(0.0428)Orn+(-0.0173)Leu;0.647,0.706,0.700,0.758,0.699,0.756,0.507,0.680,(2.860

6)+(0.0031)Thr+(-0.0251)Arg+(-0.0490)Tyr+(0.0296)Orn+(-0.0110)Leu;0.6
47,0.689,0.625,0.622,0.657,0.692,0.520,0.623,(-1.2474)+(0.0269)Ser+(-
0.0024)Gln+(-0.0872)Cit+(-0.0183)Leu+(0.0466)Phe;0.647,0.697,0.616,0.
572,0.663,0.698,0.578,0.628,(-1.9490)+(0.0263)Ser+(-0.0047)Gly+(-0.10
77)Cit+(0.0235)Orn+(0.0062)Phe;0.647,0.702,0.710,0.728,0.696,0.751,0.
659,0.709,(1.0004)+(-0.0006)Gln+(-0.0168)Val+(0.0283)Orn+(-0.0168)Lys
+(0.0460)Phe;0.647,0.703,0.796,0.861,0.742,0.855,0.692,0.787,(2.6106)
+(0.0036)Gln+(-0.0050)Ala+(-0.0187)Arg+(-0.0268)Tyr+(-0.0068)Val;0.64
7,0.703,0.718,0.725,0.646,0.793,0.793,0.739,(0.3557)+(-0.0011)Gln+(-0
.0135)Ala+(0.0082)Pro+(0.0093)Orn+(0.0239)Phe;0.647,0.702,0.732,0.757
,0.665,0.785,0.769,0.744,(0.0907)+(-0.0124)Ala+(0.0090)Pro+(0.0122)Or
n+(-0.0163)Leu+(0.0379)Phe;0.647,0.700,0.650,0.718,0.623,0.644,0.531,
0.629,(0.9239)+(0.0082)Thr+(-0.0270)Arg+(0.0038)Pro+(-0.0796)Tyr+(0.0
569)Phe;0.647,0.701,0.749,0.789,0.747,0.788,0.622,0.737,(4.3435)+(-0.
0604)Cit+(-0.0026)Arg+(-0.0298)Tyr+(-0.0054)Val+(-0.0052)Lys;0.647,0.
701,0.742,0.760,0.733,0.706,0.739,0.734,(0.5859)+(-0.1591)Asn+(0.0015
)Gly+(0.0041)Gln+(0.0023)Thr+(0.0283)Phe;0.647,0.700,0.719,0.718,0.72
9,0.730,0.690,0.717,(2.4349)+(-0.1120)Asn+(0.0050)Thr+(-0.0189)Arg+(0
.0124)Orn+(0.0183)Ile;0.647,0.711,0.646,0.647,0.661,0.758,0.529,0.649
,(-1.1712)+(0.0340)Ser+(-0.0018)Gln+(-0.0167)Thr+(-0.0255)Arg+(0.0168
)Orn;0.647,0.700,0.709,0.765,0.645,0.755,0.660,0.706,(2.5058)+(0.0002
)Gln+(0.0027)Thr+(-0.0442)Tyr+(-0.0278)Val+(0.0347)Leu;0.647,0.695,0.
697,0.684,0.694,0.744,0.708,0.707,(1.3541)+(-0.0163)Arg+(-0.0036)Pro+
(-0.0227)Lys+(0.0387)Ile+(0.0133)Phe;0.647,0.700,0.748,0.793,0.691,0.
801,0.712,0.749,(2.8414)+(-0.0030)Gly+(-0.0069)Ala+(-0.0418)Tyr+(0.02
74)Orn+(-0.0050)Leu;0.647,0.696,0.700,0.709,0.651,0.757,0.740,0.714,(
-0.1675)+(0.0382)Ser+(-0.0082)Gly+(-0.0169)Thr+(0.0068)Pro+(-0.0145)V
al;0.647,0.699,0.675,0.673,0.650,0.770,0.661,0.689,(0.7413)+(0.0314)S

er+(-0.0084)Gly+(-0.0032)Gln+(-0.0166)Val+(0.0205)Orn;0.647,0.705,0.761,0.827,0.724,0.835,0.612,0.750,(3.7523)+(0.0111)Thr+(-0.0051)Ala+(-0.0195)Arg+(-0.0298)Tyr+(-0.0071)Val;0.647,0.708,0.654,0.653,0.651,0.778,0.575,0.664,(-0.8141)+(0.0318)Ser+(-0.0145)Thr+(0.0225)Orn+(-0.0203)Lys+(-0.0016)Leu;0.647,0.701,0.705,0.702,0.705,0.702,0.713,0.706,(1.2756)+(-0.1371)Asn+(0.0026)
Gly+(0.0074)Orn+(0.0151)Ile+(0.0186)Phe;0.647,0.701,0.733,0.736,0.741,0.760,0.689,0.731,(3.2238)+(-0.0981)Asn+(0.0008)Gly+(0.0015)Pro+(0.0243)Orn+(-0.0129)Lys;0.646,0.695,0.689,0.673,0.693,0.732,0.695,0.698,(1.2765)+(0.0014)Thr+(-0.0180)Arg+(-0.0230)Lys+(0.0339)Ile+(0.0123)Phe;0.646,0.701,0.759,0.782,0.706,0.793,0.782,0.766,(0.2869)+(-0.0078)Thr+(-0.0097)Ala+(0.0205)Orn+(-0.0140)Leu+(0.0429)Phe;0.646,0.694,0.742,0.785,0.680,0.795,0.717,0.744,(2.6191)+(-0.0029)Gly+(0.0007)Thr+(-0.0074)Ala+(-0.0438)Tyr+(0.0249)Orn;0.646,0.709,0.645,0.649,0.646,0.737,0.564,0.649,(-2.7075)+(0.0345)Ser+(-0.0190)Thr+(-0.0288)Arg+(0.0114)Orn+(0.0225)Phe;0.646,0.702,0.716,0.725,0.714,0.727,0.688,0.714,(2.1742)+(-0.1059)Asn+(0.0030)Gly+(-0.0161)Arg+(-0.0012)Pro+(0.0276)Ile;0.646,0.702,0.735,0.766,0.743,0.767,0.618,0.723,(4.0745)+(-0.0678)Cit+(0.0004)Arg+(-0.0350)Tyr+(-0.0094)Lys+(0.0020)Leu;0.646,0.697,0.713,0.721,0.718,0.698,0.695,0.708,(1.5047)+(-0.1401)Asn+(0.0021)Gly+(0.0017)Thr+(0.0111)Orn+(0.0270)Phe;0.646,0.702,0.740,0.755,0.734,0.712,0.736,0.734,(0.5920)+(-0.1559)Asn+(0.0015)Gly+(0.0038)Gln+(0.0079)Orn+(0.0256)Phe;0.646,0.688,0.626,0.671,0.569,0.621,0.630,0.623,(-0.0434)+(-0.0043)Thr+(-0.0795)Tyr+(0.0078)Orn+(0.0241)Ile+(0.0338)Phe;0.646,0.705,0.738,0.738,0.742,0.721,0.745,0.737,(2.0778)+(-0.1070)Asn+(-0.0157)Arg+(-0.0015)Pro+(0.0201)Ile+(0.0207)Phe;0.646,0.705,0.751,0.755,0.736,0.728,0.791,0.752,(0.5516)+(-0.1509)Asn+(0.0044)Gln+(-0.0028)Pro+(0.0180)Ile+(0.0175)Phe;0.646,0.698,0.676,0.658,0.744,0.744,0.534,0.6

70,(0.9018)+(0.0011)Gly+(-0.0993)Cit+(-0.0167)Arg+(-0.0023)Pro+(0.036
8)Orn;0.646,0.704,0.776,0.814,0.738,0.805,0.735,0.773,(1.0898)+(0.003
7)Thr+(-0.0090)Ala+(-0.0227)Arg+(-0.0124)Leu+(0.0536)Phe;0.646,0.701,
0.765,0.794,0.737,0.831,0.700,0.765,(2.3651)+(-0.0008)Thr+(-0.0082)Al
a+(-0.0224)Arg+(0.0279)Orn+(-0.0077)Leu;0.646,0.699,0.737,0.789,0.674
,0.808,0.675,0.737,(2.0419)+(0.0005)Gln+(-0.0073)Ala+(-0.0402)Tyr+(0.
0243)Orn+(-0.0043)Leu;0.646,0.703,0.748,0.769,0.735,0.713,0.745,0.740
,(0.5783)+(-0.1550)Asn+(0.0016)Gly+(0.0042)Gln+(-0.0005)Pro+(0.0293)P
he;0.646,0.699,0.769,0.805,0.734,0.832,0.700,0.768,(1.7951)+(0.0016)G
ln+(-0.0084)Ala+(-0.0246)Arg+(0.0257)Orn+(-0.0080)Leu;0.646,0.698,0.7
11,0.709,0.708,0.704,0.723,0.711,(1.3140)+(-0.1335)Asn+(0.0028)Gly+(-
0.0020)Pro+(0.0201)Ile+(0.0207)Phe;0.646,0.704,0.730,0.750,0.741,0.71
3,0.669,0.718,(1.8727)+(-0.1168)Asn+(0.0030)Gly+(-0.0159)Arg+(0.0011)
Pro+(0.0357)Phe;0.646,0.696,0.737,0.743,0.673,0.802,0.807,0.756,(1.29
23)+(-0.0007)Gly+(-0.0093)Thr+(-0.0122)Ala+(0.0095)Pro+(0.0168)Orn;0.
646,0.700,0.747,0.806,0.694,0.794,0.665,0.740,(2.5942)+(0.0026)Gln+(-
0.0195)Arg+(-0.0367)Tyr+(-0.0259)Val+(0.0321)Leu;0.646,0.698,0.710,0.
777,0.670,0.675,0.641,0.691,(0.5662)+(-0.0022)Gly+(0.0029)Gln+(-0.024
2)Arg+(-0.0735)Tyr+(0.0560)Phe;0.646,0.696,0.804,0.841,0.756,0.846,0.
774,0.804,(2.1385)+(-0.0016)Gly+(0.0036)Gln+(-0.0073)Ala+(-0.0159)Arg
+(-0.0095)Lys;0.646,0.697,0.714,0.777,0.659,0.730,0.653,0.705,(3.3940
)+(-0.0036)Gly+(0.0035)Thr+(0.0085)Pro+(-0.0513)Tyr+(-0.0128)Val;0.64
6,0.697,0.717,0.725,0.720,0.704,0.699,0.712,(1.5189)+(-0.1369)Asn+(0.
0022)Gly+(-0.0004)Pro+(0.0122)Orn+(0.0275)Phe;0.645,0.697,0.732,0.738
,0.718,0.725,0.752,0.733,(0.8775)+(-0.1483)Asn+(0.0015)Gly+(0.0039)Gl
n+(0.0005)Thr+(0.0199)Ile;0.645,0.696,0.653,0.676,0.605,0.714,0.647,0
.661,(-2.2065)+(0.0298)Ser+(-0.0201)Thr+(0.0051)Pro+(-0.0178)Val+(0.0
436)Phe;0.645,0.700,0.735,0.780,0.678,0.785,0.697,0.735,(2.7371)+(0.0

018)Gln+(-0.0350)Tyr+(-0.0261)Val+(-0.0116)Lys+(0.0379)Leu;0.645,0.69
9,0.712,0.724,0.669,0.755,0.738,0.721,(1.4622)+(0.0030)Pro+(-0.0299)V
al+(-0.0165)Lys+(0.0320)Leu+(0.0361)Phe;0.645,0.704,0.591,0.542,0.641
,0.709,0.527,0.605,(-2.3838)+(0.0211)Ser+(-0.1149)Cit+(-0.0064)Pro+(0
.0226)Orn+(0.0255)Ile;0.645,0.701,0.726,0.736,0.652,0.795,0.807,0.747
,(0.1774)+(-0.0013)Gly+(-0.0135)Ala+(0.0080)Pro+(0.0085)Orn+(0.0218)P
he;0.645,0.686,0.668,0.662,0.687,0.733,0.597,0.670,(0.2693)+(0.0308)S
er+(-0.0056)Gly+(-0.0011)Gln+(-0.0766)Cit+(-0.0108)Leu;0.645,0.689,0.
671,0.728,0.654,0.713,0.527,0.655,(1.7757)+(0.0015)Gln+(-0.0261)Arg+(
0.0042)Pro+(-0.0597)Tyr+(0.0214)Orn;0.645,0.703,0.634,0.637,0.635,0.7
19,0.562,0.638,(-2.7235)+(0.0354)Ser+(-0.0179)Thr+(-0.0282)Arg+(0.002
0)Pro+(0.0243)Phe;0.645,0.700,0.569,0.538,0.604,0.688,0.491,0.580,(-2
.1681)+(0.0330)Ser+(-0.0033)Gln+(-0.0356)Arg+(0.0250)Ile+(0.0069)Phe;
0.645,0.697,0.681,0.724,0.664,0.732,0.568,0.672,(2.6802)+(0.0051)Pro+
(-0.0506)Tyr+(0.0278)Orn+(-0.0146)Lys+(-0.0062)Leu;0.645,0.695,0.644,
0.643,0.606,0.763,0.640,0.663,(0.3180)+(0.0304)Ser+(-0.0032)Gln+(-0.0
122)Thr+(-0.0306)Val+(0.0373)Leu;0.645,0.697,0.579,0.553,0.611,0.698,
0.498,0.590,(-1.9438)+(0.0323)Ser+(-0.0030)Gln+(-0.0345)Arg+(-0.0026)
Pro+(0.0302)Ile;0.645,0.697,0.741,0.758,0.746,0.764,0.667,0.734,(3.72
10)+(-0.1056)Asn+(0.0053)Thr+(0.0263)Orn+(-0.0097)Lys+(-0.0101)Leu;0.
645,0.699,0.656,0.619,0.719,0.728,0.573,0.660,(0.2006)+(0.0003)Gln+(-
0.0963)Cit+(-0.0187)Arg+(0.0286)Orn+(0.0160)Ile;0.645,0.688,0.608,0.6
52,0.556,0.608,0.598,0.604,(0.1295)+(-0.0009)Gln+(-0.0820)Tyr+(0.0069
)Orn+(0.0242)Ile+(0.0350)Phe;0.645,0.689,0.634,0.679,0.575,0.616,0.65
1,0.630,(0.3518)+(-0.0028)Gly+(-0.0838)Tyr+(0.0082)Orn+(0.0225)Ile+(0
.0344)Phe;0.645,0.701,0.718,0.753,0.712,0.754,0.613,0.708,(1.0244)+(-
0.0011)Thr+(-0.0285)Arg+(-0.0209)Val+(0.0296)Orn+(0.0450)Phe;0.645,0.
694,0.680,0.721,0.659,0.731,0.581,0.673,(2.2210)+(0.0011)Gln+(0.0041)

Pro+(-0.0521)Tyr+(0.0256)Orn+(-0.0172)Lys;0.645,0.696,0.771,0.801,0.765,0.779,0.696,0.760,(2.3827)+(-0.1203)Asn+(0.0057)Gln+(0.0097)Thr+(-0.0168)Arg+(-0.0096)Lys;0.645,0.700,0.758,0.784,0.673,0.845,0.808,0.777,(2.1116)+(0.0002)Gln+(0.0010)Thr+(-0.0080)Ala+(-0.0293)Val+(0.0408)Leu;0.645,0.695,0.705,0.713,0.710,0.723,0.662,0.702,(2.1863)+(-0.1152)Asn+(0.0027)Gly+(0.0059)Thr+(-0.0186)Arg+(0.0245)Ile;0.645,0.695,0.705,0.686,0.682,0.756,0.765,0.722,(0.7633)+(0.0015)Gln+(-0.0032)Thr+(-0.0044)Pro+(-0.0263)Lys+(0.0427)Ile;0.645,0.702,0.728,0.736,0.748,0.713,0.674,0.718,(2.1545)+(-0.1219)Asn+(0.0063)Thr+(-0.0194)Arg+(0.0144)Orn+(0.0271)Phe;0.645,0.699,0.784,0.817,0.768,0.774,0.734,0.774,(2.3765)+(-0.1403)Asn+(-0.0003)Gly+(0.0049)Gln+(0.0052)Thr+(-0.0124)Leu;0.644,0.697,0.795,0.836,0.778,0.794,0.726,0.783,(2.5420)+(-0.1101)Asn+(0.0062)Gln+(-0.0149)Arg+(-0.0045)Lys+(-0.0082)Leu;0.644,0.694,0.673,0.711,0.656,0.725,0.570,0.666,(2.5688)+(0.0010)Thr+(0.0042)Pro+(-0.0521)Tyr+(0.0266)Orn+(-0.0168)Lys;0.644,0.693,0.703,0.738,0.685,0.744,0.620,0.697,(3.2304)+(-0.0036)Gly+(0.0047)Thr+(-0.0520)Tyr+(0.0300)Orn+(-0.0167)Lys;0.644,0.698,0.781,0.842,0.725,0.829,0.699,0.774,(2.1948)+(0.0034)Gln+(-0.0063)Ala+(-0.0192)Arg+(-0.0322)Tyr+(-0.0007)Leu;0.644,0.696,0.736,0.769,0.734,0.811,0.600,0.728,(2.3601)+(0.0015)Gln+(-0.0230)Arg+(-0.0139)Val+(0.0332)Orn+(-0.0098)Lys;0.644,0.696,0.570,0.538,0.609,0.693,0.486,0.582,(-1.9498)+(0.0325)Ser+(-0.0032)Gln+(-0.0350)Arg+(0.0011)Orn+(0.0265)Ile;0.644,0.701,0.674,0.693,0.646,0.790,0.598,0.682,(0.0536)+(0.0303)Ser+(-0.0111)Thr+(0.0067)Pro+(-0.0100)Val+(-0.0141)Lys;0.644,0.701,0.751,0.812,0.711,0.812,0.632,0.742,(3.2275)+(0.0098)Thr+(-0.0064)Ala+(-0.0196)Arg+(-0.0354)Tyr+(0.0000)Leu;0.644,0.696,0.679,0.655,0.728,0.747,0.591,0.680,(0.7232)+(0.0019)Gly+(-0.0122)Thr+(-0.1109)Cit+(-0.0016)Pro+(0.0406)Orn;0.644,0.694,0.680,0.727,0.662,0.704,0.577,0.668,(2.7061)+(-0.0024)Gly+(-0.0229)Arg+(0.0043)P

ro+(-0.0608)Tyr+(0.0249)Orn;0.644,0.696,0.793,0.826,0.772,0.789,0.756,0.786,(2.4856)+(-0.1181)Asn+(-0.0002)Gly+(0.0055)Gln+(-0.0074)Lys+(-0.0075)Leu;0.644,0.701,0.753,0.766,0.742,0.724,0.762,0.749,(0.7362)+(-0.1529)Asn+(0.0041)Gln+(-0.0011)Pro+(0.0089)Orn+(0.0246)Phe;0.644,0.697,0.760,0.783,0.763,0.763,0.692,0.750,(1.6609)+(-0.1268)Asn+(0.0007)Gly+(0.0050)Gln+(-0.0203)Arg+(0.0161)Orn;0.644,0.698,0.759,0.815,0.718,0.803,0.662,0.749,(3.6123)+(-0.0023)Gly+(0.0115)Thr+(-0.0064)Ala+(-0.0192)Arg+(-0.0381)Tyr;0.644,0.699,0.741,0.740,0.731,0.730,0.772,0.743,(0.9867)+(-0.1466)Asn+(0.0040)Gln+(0.0002)Thr+(0.0057)Orn+(0.0170)Ile;0.644,0.698,0.695,0.751,0.657,0.710,0.616,0.683,(2.5783)+(-0.0043)Gly+(0.0059)Pro+(-0.0620)Tyr+(0.0245)Orn+(-0.0144)Leu;0.644,0.694,0.771,0.804,0.752,0.764,0.727,0.762,(2.3448)+(-0.1396)Asn+(0.0047)Gln+(0.0040)Thr+(0.0031)Pro+(-0.0142)Leu;0.644,0.693,0.578,0.520,0.622,0.670,0.570,0.596,(-1.3859)+(0.0320)Ser+(-0.0035)Gly+(-0.0032)Gln+(-0.0885)Cit+(0.0245)Ile;0.644,0.701,0.722,0.721,0.732,0.710,0.713,0.719,(2.0483)+(-0.1196)Asn+(0.0073)Thr+(-0.0187)Arg+(0.0165)Ile+(0.0209)Phe;0.644,0.691,0.762,0.794,0.689,0.824,0.782,0.772,(2.3498)+(-0.0018)Gly+(0.0007)Gln+(-0.0099)Ala+(0.0118)Pro+(-0.0116)Val;0.644,0.700,0.747,0.772,0.692,0.795,0.761,0.755,(0.2554)+(-0.0008)Gln+(-0.0102)Ala+(0.0171)Orn+(-0.0144)Leu+(0.0429)Phe;0.644,0.699,0.704,0.701,0.705,0.693,0.716,0.704,(1.2975)+(-0.1384)Asn+(0.0027)Gly+(0.0017)Thr+(0.0170)Ile+(0.0202)Phe;0.644,0.697,0.763,0.785,0.765,0.763,0.703,0.754,(1.6971)+(-0.1261)Asn+(0.0051)Gln+(-0.0204)Arg+(0.0002)Pro+(0.0160)Orn;0.644,0.696,0.735,0.743,0.668,0.805,0.802,0.754,(1.1895)+(0.0000)Gln+(-0.0098)Thr+(-0.0122)Ala+(0.0096)Pro+(0.0167)Orn;0.644,0.697,0.780,0.811,0.758,0.780,0.744,0.773,(2.4816)+(-0.1198)Asn+(0.0052)Gln+(0.0035)Pro+(-0.0074)Lys+(-0.0098)Leu;0.644,0.695,0.751,0.778,0.681,0.791,0.797,0.761,(0.6624)+(-0.0066)Thr+(-0.0118)Ala+(0.0104)Pro+(-0.0140)Leu+(0.

0418)Phe;0.644,0.699,0.780,0.811,0.763,0.784,0.729,0.772,(2.5568)+(-0.1285)Asn+(0.0051)Gln+(0.0073)Thr+(-0.0087)Lys+(-0.0077)Leu;0.644,0.688,0.613,0.661,0.556,0.610,0.605,0.608,(-0.2156)+(0.0001)Pro+(-0.0830)Tyr+(0.0053)Orn+(0.0239)Ile+(0.0346)Phe;0.644,0.690,0.763,0.794,0.713,0.828,0.736,0.768,(2.6875)+(-0.0003)Gly+(-0.0105)Ala+(-0.0185)Arg+(0.0113)Pro+(-0.0070)Leu;0.644,0.687,0.648,0.687,0.585,0.650,0.674,0.649,(1.1190)+(-0.0026)Gly+(0.0004)Gln+(0.0005)Pro+(-0.0716)Tyr+(0.0321)Ile;0.643,0.699,0.798,0.837,0.750,0.853,0.756,0.799,(1.9775)+(0.0032)Gln+(-0.0074)Ala+(-0.0161)Arg+(-0.0097)Lys+(0.0011)Leu;0.643,0.697,0.768,0.799,0.709,0.837,0.758,0.776,(2.1890)+(-0.0025)Gly+(0.0002)Gln+(-0.0075)Ala+(-0.0124)Val+(0.0280)Orn;0.643,0.688,0.636,0.684,0.573,0.609,0.659,0.631,(0.3847)+(-0.0024)Gly+(0.0006)Pro+(-0.0830)Tyr+(0.0245)Ile+(0.0359)Phe;0.643,0.695,0.736,0.785,0.670,0.804,0.697,0.739,(1.9005)+(0.0007)Gln+(-0.0024)Thr+(-0.0076)Ala+(-0.0403)Tyr+(0.0236)Orn;0.643,0.697,0.749,0.753,0.73

3,0.735,0.782,0.751,(0.9965)+(-0.1471)Asn+(0.0043)Gln+(0.0017)Thr+(-0.0028)Pro+(0.0222)Ile;0.643,0.701,0.747,0.750,0.732,0.742,0.774,0.749,(0.9791)+(-0.1452)Asn+(0.0041)Gln+(-0.0028)Pro+(0.0064)Orn+(0.0205)Ile;0.643,0.701,0.747,0.757,0.739,0.711,0.759,0.742,(0.7309)+(-0.1555)Asn+(0.0040)Gln+(0.0013)Thr+(0.0076)Orn+(0.0237)Phe;0.643,0.703,0.741,0.816,0.716,0.796,0.553,0.720,(2.6364)+(0.0028)Gln+(0.0078)Thr+(-0.0247)Arg+(-0.0400)Tyr+(-0.0102)Val;0.643,0.703,0.678,0.712,0.674,0.775,0.531,0.673,(-0.5939)+(0.0315)Ser+(-0.0137)Thr+(-0.0258)Arg+(0.0056)Pro+(-0.0130)Leu;0.643,0.694,0.700,0.698,0.697,0.708,0.705,0.702,(1.7571)+(-0.1301)Asn+(0.0022)Gly+(0.0004)Thr+(0.0088)Orn+(0.0193)Ile;0.643,0.699,0.776,0.797,0.760,0.773,0.758,0.772,(2.1728)+(-0.1179)Asn+(0.0001)Gly+(0.0051)Gln+(0.0020)Pro+(-0.0110)Lys;0.643,0.700,0.642,0.693,0.599,0.720,0.541,0.638,(-0.2603)+(0.0281)Ser+(-0.0138)Thr+(0.0076)

Pro+(-0.0493)Tyr+(-0.0076)Leu;0.643,0.696,0.751,0.762,0.689,0.805,0.812,0.767,(0.2779)+(-0.0005)Gly+(-0.0079)Thr+(-0.0109)Ala+(0.0165)Orn+(0.0290)Phe;0.643,0.703,0.753,0.810,0.719,0.819,0.623,0.743,(3.6269)+(0.0121)Thr+(-0.0059)Ala+(-0.0164)Arg+(-0.0320)Tyr+(-0.0072)Lys;0.643,0.692,0.718,0.776,0.689,0.757,0.599,0.705,(3.7883)+(-0.0164)Arg+(0.0091)Pro+(-0.0398)Tyr+(-0.0114)Val+(-0.0021)Lys;0.643,0.697,0.668,0.737,0.641,0.645,0.562,0.646,(1.3080)+(-0.0021)Gly+(0.0107)Thr+(-0.0260)Arg+(-0.0789)Tyr+(0.0593)Phe;0.643,0.703,0.702,0.682,0.752,0.757,0.613,0.701,(0.7877)+(0.0013)Gln+(-0.0092)Thr+(-0.0983)Cit+(-0.0138)Arg+(0.0379)Orn;0.643,0.698,0.721,0.742,0.736,0.709,0.644,0.708,(1.8924)+(-0.1280)Asn+(0.0027)Gly+(0.0081)Thr+(-0.0189)Arg+(0.0358)Phe;0.643,0.692,0.774,0.810,0.751,0.764,0.736,0.765,(2.3061)+(-0.1328)Asn+(0.0001)Gly+(0.0049)Gln+(0.0035)Pro+(-0.0139)Leu;0.643,0.699,0.739,0.746,0.721,0.736,0.761,0.741,(0.8654)+(-0.1463)Asn+(0.0015)Gly+(0.0041)Gln+(-0.0026)Pro+(0.0235)Ile;0.643,0.697,0.687,0.660,0.678,0.745,0.735,0.705,(1.1205)+(-0.0041)Thr+(-0.0045)Pro+(0.0165)Orn+(-0.0269)Lys+(0.0392)Ile;0.642,0.700,0.714,0.725,0.674,0.768,0.728,0.724,(1.3967)+(0.0043)Thr+(-0.0304)Val+(-0.0180)Lys+(0.0343)Leu+(0.0378)Phe;0.642,0.694,0.784,0.825,0.768,0.774,0.711,0.770,(2.4870)+(-0.1169)Asn+(0.0059)Gln+(-0.0175)Arg+(0.0040)Pro+(-0.0134)Leu;0.642,0.691,0.712,0.722,0.670,0.771,0.729,0.723,(0.3524)+(0.0380)Ser+(-0.0079)Gly+(-0.0011)Gln+(-0.0131)Thr+(-0.0119)Val;0.642,0.687,0.639,0.686,0.576,0.614,0.662,0.634,(0.3926)+(-0.0023)Gly+(-0.0006)Thr+(-0.0820)Tyr+(0.0253)Ile+(0.0359)Phe;0.642,0.688,0.644,0.702,0.593,0.610,0.623,0.632,(0.5632)+(-0.0033)Gly+(0.0026)Pro+(-0.0843)Tyr+(0.0134)Orn+(0.0454)Phe;0.642,0.686,0.654,0.693,0.591,0.653,0.682,0.655,(1.0912)+(-0.0024)Gly+(0.0006)Gln+(-0.0016)Thr+(-0.0700)Tyr+(0.0328)Ile;0.642,0.695,0.727,0.739,0.685,0.768,0.757,0.737,(1.6186)+(-0.0008)Gly+(-0.0294)Val+(-0.0159)Lys+(0.0328)

Leu+(0.0379)Phe;0.642,0.691,0.638,0.592,0.692,0.714,0.591,0.647,(0.05
37)+(-0.0008)Gln+(-0.1123)Cit+(-0.0062)Pro+(0.0311)Orn+(0.0219)Ile;0.
642,0.685,0.634,0.636,0.659,0.694,0.530,0.630,(-1.8585)+(0.0233)Ser+(
-0.0915)Cit+(0.0012)Pro+(-0.0197)Leu+(0.0426)Phe;0.642,0.681,0.644,0.
649,0.658,0.743,0.532,0.646,(0.8177)+(0.0241)Ser+(-0.0018)Gln+(-0.072
9)Cit+(0.0052)Pro+(-0.0124)Val;0.642,0.696,0.732,0.743,0.749,0.766,0.
647,0.726,(3.6078)+(-0.0952)Asn+(0.0079)Thr+(-0.0143)Arg+(0.0247)Orn+
(-0.0119)Lys;0.642,0.687,0.638,0.686,0.575,0.614,0.661,0.634,(0.3373)
+(-0.0024)Gly+(0.0002)Gln+(-0.0827)Tyr+(0.0251)Ile+(0.0358)Phe;0.642,
0.693,0.701,0.682,0.680,0.750,0.760,0.718,(0.8264)+(-0.0006)Gly+(0.00
14)Gln+(-0.0047)Pro+(-0.0273)Lys+(0.0423)Ile;0.642,0.693,0.730,0.734,
0.739,0.760,0.676,0.727,(3.3056)+(-0.1038)Asn+(0.0005)Gly+(0.0053)Thr
+(0.0232)Orn+(-0.0135)Lys;0.642,0.692,0.716,0.774,0.688,0.743,0.604,0
.702,(2.2108)+(0.0032)Gln+(-0.0182)Arg+(0.0055)Pro+(-0.0477)Tyr+(-0.0
102)Lys;0.642,0.701,0.773,0.831,0.713,0.830,0.705,0.770,(3.5406)+(-0.
0030)Gly+(0.0070)Thr+(-0.0055)Ala+(-0.0340)Tyr+(-0.0073)Val;0.642,0.6
96,0.727,0.737,0.658,0.808,0.789,0.748,(1.1707)+(-0.0014)Gly+(-0.0005
)Gln+(-0.0127)Ala+(0.0088)Pro+(0.0123)Orn;0.642,0.685,0.647,0.684,0.5
88,0.648,0.673,0.648,(1.2688)+(-0.0022)Gly+(-0.0011)Thr+(0.0006)Pro+(
-0.0700)Tyr+(0.0326)Ile;0.642,0.696,0.756,0.781,0.700,0.799,0.778,0.7
65,(0.2659)+(-0.0016)Gly+(-0.0102)Ala+(0.0169)Orn+(-0.0146)Leu+(0.041
0)Phe;0.642,0.696,0.658,0.688,0.678,0.766,0.461,0.648,(-0.0874)+(0.02
75)Ser+(-0.0014)Gln+(-0.0312)Arg+(0.0045)Pro+(-0.0146)Leu;0.642,0.696
,0.730,0.732,0.738,0.756,0.687,0.728,(3.3284)+(-0.1031)Asn+(0.0051)Th
r+(0.0010)Pro+(0.0228)Orn+(-0.0138)Lys;0.642,0.693,0.790,0.848,0.733,
0.824,0.734,0.785,(2.4148)+(-0.0026)Gly+(0.0040)Gln+(-0.0063)Ala+(-0.
0187)Arg+(-0.0349)Tyr;0.642,0.692,0.759,0.791,0.711,0.828,0.727,0.764
,(2.6109)+(0.0011)Thr+(-0.0105)Ala+(-0.0192)Arg+(0.0112)Pro+(-0.0071)

Leu;0.642,0.698,0.669,0.744,0.638,0.662,0.539,0.646,(0.3648)+(0.0018)Gln+(0.0077)Thr+(-0.0285)Arg+(-0.0770)Tyr+(0.0582)Phe;0.642,0.694,0.704,0.702,0.700,0.715,0.708,0.706,(1.7797)+(-0.1278)Asn+(0.0022)Gly+(-0.0021)Pro+(0.0096)Orn+(0.0220)Ile;0.642,0.699,0.752,0.768,0.741,0.709,0.766,0.746,(0.7325)+(-0.1575)Asn+(0.0044)Gln+(0.0031)Thr+(-0.0009)Pro+(0.0274)Phe;0.642,0.699,0.687,0.669,0.750,0.747,0.559,0.681,(0.8260)+(0.0007)Gln+(-0.0982)Cit+(-0.0172)Arg+(-0.0026)Pro+(0.0362)Orn;0.642,0.690,0.568,0.517,0.614,0.681,0.524,0.584,(-1.4484)+(0.0280)Ser+(-0.0032)Gln+(-0.0923)Cit+(-0.0043)Pro+(0.0323)Ile;0.642,0.701,0.718,0.708,0.721,0.703,0.749,0.720,(1.6440)+(-0.1331)Asn+(0.0016)Thr+(0.0083)Orn+(0.0133)Ile+(0.0162)Phe;0.642,0.688,0.737,0.761,0.739,0.797,0.630,0.732,(3.1747)+(-0.0020)Gly+(-0.0208)Arg+(-0.0142)Val+(0.0361)Orn+(-0.0089)Lys;0.642,0.702,0.789,0.848,0.725,0.858,0.714,0.786,(2.5873)+(0.0027)Gln+(-0.0053)Ala+(-0.0265)Tyr+(-0.0051)Val+(-0.0075)Lys;0.641,0.694,0.755,0.779,0.758,0.758,0.685,0.745,(1.7324)+(-0.1323)Asn+(0.0050)Gln+(0.0046)Thr+(-0.0215)Arg+(0.0142)Orn;0.641,0.695,0.724,0.738,0.678,0.769,0.747,0.733,(1.3247)+(0.0005)Gln+(-0.0293)Val+(-0.0165)Lys+(0.0327)Leu+(0.0377)Phe;0.641,0.687,0.649,0.684,0.594,0.656,0.668,0.651,(1.1897)+(-0.0025)Gly+(-0.0029)Thr+(-0.0706)Tyr+(0.0117)Orn+(0.0297)Ile;0.641,0.693,0.716,0.741,0.716,0.794,0.594,0.711,(2.7692)+(-0.0223)Arg+(0.0045)Pro+(-0.0155)Val+(0.0328)Orn+(-0.0091)Lys;0.641,0.688,0.643,0.678,0.588,0.653,0.659,0.645,(1.1538)+(-0.0029)Gly+(0.0000)Gln+(-0.0729)Tyr+(0.0104)Orn+(0.0295)Ile;0.641,0.688,0.713,0.713,0.709,0.774,0.680,0.719,(3.4473)+(-0.0607)Cit+(0.0046)Pro+(-0.0260)Val+(-0.0129)Lys+(0.0345)Leu;0.641,0.700,0.770,0.836,0.699,0.844,0.688,0.767,(2.4186)+(0.0016)Gln+(0.0027)Thr+(-0.0058)Ala+(-0.0316)Tyr+(-0.0072)Val;0.641,0.685,0.625,0.672,0.567,0.614,0.631,0.621,(0.1004)+(-0.0003)Gln+(-0.0024)Thr+(-0.0796)Tyr+(0.0264)Ile+(0.0357)Phe;0.641,0.697,0

.718,0.756,0.698,0.751,0.636,0.710,(3.3113)+(-0.0033)Gly+(-0.0480)Tyr+(0.0325)Orn+(-0.0140)Lys+(-0.0044)Leu;0.641,0.694,0.604,0.571,0.661,0.704,0.503,0.610,(-2.1906)+(0.0207)Ser+(-0.1151)Cit+(-0.0036)Pro+(0.0266)Orn+(0.0138)Phe;0.641,0.696,0.739,0.776,0.687,0.775,0.726,0.741,(3.7042)+(-0.0018)Gly+(-0.0340)Tyr+(-0.0267)Val+(-0.0093)Lys+(0.0387)Leu;0.641,0.698,0.684,0.653,0.678,0.738,0.742,0.703,(0.7493)+(0.0008)Gln+(-0.0061)Thr+(0.0149)Orn+(-0.0268)Lys+(0.0332)Ile;0.641,0.695,0.662,0.673,0.614,0.701,0.703,0.673,(-1.4918)+(0.0299)Ser+(-0.0086)Gly+(0.0032)Pro+(-0.0201)Val+(0.0349)Phe;0.641,0.687,0.626,0.675,0.566,0.615,0.632,0.622,(0.0033)+(-0.0029)Thr+(0.0005)Pro+(-0.0800)Tyr+(0.0258)Ile+(0.0354)Phe;0.641,0.695,0.806,0.861,0.753,0.864,0.731,0.802,(2.3813)+(0.0033)Gln+(-0.0060)Ala+(-0.0173)Arg+(-0.0072)Val+(-0.0054)Lys;0.641,0.693,0.718,0.782,0.701,0.764,0.551,0.699,(2.3290)+(0.0031)Gln+(0.0089)Thr+(-0.0209)Arg+(-0.0454)Tyr+(-0.0114)Lys;0.641,0.682,0.669,0.663,0.717,0.724,0.548,0.663,(0.0889)+(0.0005)Gly+(-0.1104)Cit+(0.0394)Orn+(-0.0237)Leu+(0.0349)Phe;0.641,0.697,0.683,0.658,0.672,0.746,0.729,0.701,(0.7901)+(0.0007)Gln+(-0.0051)Pro+(0.0140)Orn+(-0.0287)Lys+(0.0398)Ile;0.641,0.695,0.795,0.839,0.779,0.790,0.718,0.781,(2.4590)+(-0.1162)Asn+(-0.0000)Gly+(0.0062)Gln+(-0.0168)Arg+(-0.0107)Leu;0.641,0.691,0.660,0.714,0.648,0.707,0.507,0.644,(2.2514)+(0.0026)Thr+(-0.0255)Arg+(0.0043)Pro+(-0.0602)Tyr+(0.0223)Orn;0.641,0.699,0.794,0.846,0.730,0.835,0.761,0.793,(2.6322)+(-0.0029)Gly+(0.0036)Gln+(-0.0060)Ala+(-0.0320)Tyr+(-0.0098)Lys;0.641,0.697,0.725,0.764,0.694,0.755,0.662,0.719,(2.5893)+(-0.0040)Gly+(0.0023)Gln+(-0.0514)Tyr+(0.0293)Orn+(-0.0169)Lys;0.641,0.695,0.574,0.522,0.629,0.691,0.516,0.589,(-2.5363)+(0.0210)Ser+(-0.1130)Cit+(0.0191)Orn+(0.0180)Ile+(-0.0016)Phe;0.641,0.695,0.796,0.855,0.723,0.840,0.757,0.794,(2.7084)+(-0.0032)Gly+(0.0028)Gln+(-0.0055)Ala+(-0.0329)Tyr+(-0.0071)Val;0.641,0.697,0.771,0.798,

0.716,0.839,0.764,0.779,(2.3474)+(-0.0020)Gly+(-0.0039)Thr+(-0.0072)Ala+(-0.0120)Val+(0.0302)Orn;0.641,0.702,0.611,0.672,0.577,0.697,0.458,0.601,(-0.1739)+(0.0189)Ser+(0.0057)Pro+(-0.0608)Tyr+(0.0125)Orn+(-0.0108)Leu;0.641,0.693,0.684,0.656,0.676,0.743,0.733,0.702,(1.1344)+(-0.0006)Gly+(-0.0049)Pro+(0.0154)Orn+(-0.0281)Lys+(0.0392)Ile;0.640,0.697,0.749,0.761,0.685,0.804,0.807,0.764,(0.2114)+(-0.0001)Gln+(-0.0082)Thr+(-0.0109)Ala+(0.0165)Orn+(0.0295)Phe;0.640,0.695,0.780,0.827,0.771,0.778,0.678,0.764,(2.5691)+(-0.1283)Asn+(0.0057)Gln+(0.0088)Thr+(-0.0196)Arg+(-0.0118)Leu;0.640,0.685,0.614,0.662,0.558,0.605,0.612,0.609,(0.1012)+(-0.0006)Gln+(0.0004)Pro+(-0.0818)Tyr+(0.0257)Ile+(0.0360)Phe;0.640,0.690,0.722,0.777,0.677,0.747,0.655,0.714,(3.7570)+(-0.0025)Gly+(0.0085)Pro+(-0.0436)Tyr+(-0.0107)Val+(-0.0060)Lys;0.640,0.698,0.737,0.786,0.678,0.805,0.680,0.737,(2.2948)+(-0.0018)Thr+(-0.0071)Ala+(-0.0386)Tyr+(0.0260)Orn+(-0.0043)Leu;0.640,0.694,0.697,0.672,0.680,0.742,0.764,0.715,(0.7663)+(-0.0003)Gly+(0.0013)Gln+(-0.0044)Thr+(-0.0259)Lys+(0.0365)Ile;0.640,0.696,0.744,0.756,0.679,0.808,0.805,0.762,(0.2550)+(-0.0011)Gly+(-0.0005)Gln+(-0.0115)Ala+(0.0129)Orn+(0.0278)Phe;0.640,0.696,0.789,0.830,0.745,0.850,0.727,0.788,(2.0565)+(0.0029)Gln+(0.0051)Thr+(-0.0075)Ala+(-0.0179)Arg+(-0.0105)Lys;0.640,0.693,0.750,0.767,0.741,0.743,0.731,0.745,(1.4438)+(-0.1445)Asn+(0.0007)Gly+(0.0040)Gln+(-0.0001)Pro+(0.0121)Orn;0.640,0.690,0.716,0.728,0.718,0.690,0.697,0.708,(1.5985)+(-0.1404)Asn+(0.0023)Gly+(0.0038)Thr+(0.0000)Pro+(0.0314)Phe;0.640,0.689,0.642,0.678,0.587,0.652,0.658,0.644,(1.1618)+(-0.0029)Gly+(0.0003)Pro
+(-0.0731)Tyr+(0.0103)Orn+(0.0291)Ile;0.640,0.694,0.678,0.656,0.743,0.734,0.558,0.673,(0.6494)+(-0.0982)Cit+(-0.0168)Arg+(-0.0030)Pro+(0.0359)Orn+(0.0104)Phe;0.640,0.694,0.741,0.758,0.680,0.810,0.772,0.755,(1.6347)+(-0.0095)Thr+(-0.0112)Ala+(0.0105)Pro+(0.0207)Orn+(-0.0101)Le

u;0.640,0.704,0.608,0.591,0.632,0.743,0.503,0.617,(-0.1984)+(0.0309)Ser+(-0.0027)Gln+(0.0020)Pro+(0.0176)Orn+(-0.0247)Lys;0.640,0.699,0.764,0.795,0.707,0.845,0.745,0.773,(2.0039)+(0.0001)Gln+(-0.0053)Thr+(-0.0073)Ala+(-0.0117)Val+(0.0296)Orn;0.640,0.699,0.768,0.828,0.708,0.839,0.686,0.765,(2.4510)+(0.0024)Gln+(0.0058)Thr+(-0.0063)Ala+(-0.0322)Tyr+(-0.0113)Lys;0.640,0.690,0.726,0.784,0.692,0.748,0.630,0.713,(4.0411)+(-0.0019)Gly+(-0.0166)Arg+(0.0092)Pro+(-0.0421)Tyr+(-0.0119)Val;0.640,0.686,0.615,0.651,0.564,0.643,0.603,0.615,(0.8583)+(-0.0007)Gln+(0.0001)Pro+(-0.0711)Tyr+(0.0087)Orn+(0.0312)Ile;0.640,0.689,0.761,0.792,0.690,0.824,0.780,0.771,(2.6717)+(-0.0013)Gly+(-0.0021)Thr+(-0.0098)Ala+(0.0122)Pro+(-0.0112)Val;0.640,0.685,0.636,0.674,0.579,0.648,0.644,0.636,(0.8516)+(0.0001)Gln+(-0.0033)Thr+(0.0005)Pro+(-0.0678)Tyr+(0.0336)Ile;0.640,0.691,0.641,0.598,0.691,0.717,0.592,0.650,(-0.1237)+(-0.1131)Cit+(-0.0062)Pro+(0.0302)Orn+(0.0230)Ile+(-0.0047)Phe;0.640,0.695,0.680,0.646,0.676,0.735,0.737,0.698,(1.0641)+(-0.0003)Gly+(-0.0054)Thr+(0.0158)Orn+(-0.0265)Lys+(0.0331)Ile;0.640,0.705,0.787,0.843,0.742,0.845,0.688,0.780,(3.9029)+(-0.0047)Ala+(-0.0126)Arg+(-0.0223)Tyr+(-0.0059)Val+(-0.0017)Lys;0.640,0.694,0.717,0.717,0.712,0.762,0.697,0.722,(2.1973)+(-0.0646)Cit+(-0.0242)Val+(-0.0152)Lys+(0.0278)Leu+(0.0484)Phe;0.640,0.698,0.724,0.716,0.724,0.712,0.757,0.727,(1.6711)+(-0.1284)Asn+(-0.0023)Pro+(0.0096)Orn+(0.0162)Ile+(0.0164)Phe;0.639,0.696,0.694,0.670,0.737,0.746,0.628,0.695,(0.7344)+(0.0006)Gln+(-0.0118)Thr+(-0.1091)Cit+(-0.0020)Pro+(0.0400)Orn;0.639,0.688,0.692,0.671,0.675,0.744,0.746,0.709,(1.2480)+(0.0001)Gly+(-0.0020)Thr+(-0.0041)Pro+(-0.0255)Lys+(0.0427)Ile;0.639,0.699,0.791,0.846,0.744,0.838,0.706,0.784,(4.0666)+(-0.0013)Gly+(-0.0047)Ala+(-0.0129)Arg+(-0.0239)Tyr+(-0.0064)Val;0.639,0.691,0.693,0.737,0.674,0.749,0.576,0.684,(2.2210)+(0.0012)Gln+(0.0009)Thr+(-0.0481)Tyr+(0.0272)Orn+(-0.0171)Lys;0.639,0

.686,0.592,0.583,0.568,0.725,0.573,0.612,(0.5478)+(0.0260)Ser+(-0.0048)Gln+(0.0045)Pro+(-0.0343)Val+(0.0370)Leu;0.639,0.703,0.688,0.716,0.665,0.805,0.579,0.691,(0.4873)+(0.0300)Ser+(-0.0009)Gln+(-0.0077)Thr+(-0.0077)Val+(-0.0134)Lys;0.639,0.689,0.715,0.751,0.706,0.789,0.582,0.707,(2.1027)+(0.0005)Gln+(-0.0279)Arg+(0.0044)Pro+(-0.0183)Val+(0.0291)Orn;0.639,0.693,0.749,0.765,0.740,0.741,0.729,0.744,(1.4446)+(-0.1462)Asn+(0.0006)Gly+(0.0040)Gln+(0.0009)Thr+(0.0116)Orn;0.639,0.690,0.714,0.774,0.666,0.758,0.621,0.705,(2.6833)+(0.0018)Gln+(0.0079)Pro+(-0.0433)Tyr+(-0.0103)Val+(-0.0086)Lys;0.639,0.695,0.674,0.649,0.722,0.742,0.589,0.676,(0.5549)+(0.0020)Gly+(0.0002)Gln+(-0.0130)Thr+(-0.1105)Cit+(0.0391)Orn;0.639,0.686,0.718,0.723,0.715,0.789,0.662,0.722,(3.3972)+(0.0012)Gly+(-0.0624)Cit+(-0.0248)Val+(-0.0128)Lys+(0.0362)Leu;0.639,0.695,0.771,0.792,0.757,0.770,0.740,0.765,(2.3073)+(-0.1262)Asn+(-0.0003)Gly+(0.0050)Gln+(0.0072)Thr+(-0.0119)Lys;0.639,0.700,0.777,0.830,0.710,0.833,0.734,0.777,(2.2817)+(0.0028)Gln+(-0.0065)Ala+(-0.0305)Tyr+(-0.0113)Lys+(0.0047)Leu;0.639,0.694,0.766,0.786,0.754,0.768,0.738,0.761,(2.2524)+(-0.1263)Asn+(0.0049)Gln+(0.0065)Thr+(0.0014)Pro+(-0.0121)Lys;0.639,0.690,0.758,0.793,0.683,0.830,0.772,0.769,(2.2286)+(0.0007)Gln+(-0.0037)Thr+(-0.0098)Ala+(0.0121)Pro+(-0.0111)Val;0.639,0.688,0.737,0.745,0.727,0.802,0.691,0.741,(2.5426)+(0.0029)Gln+(-0.0667)Cit+(-0.0238)Val+(-0.0150)Lys+(0.0341)Leu;0.639,0.690,0.653,0.665,0.600,0.748,0.665,0.670,(-0.7484)+(0.0276)Ser+(-0.0173)Thr+(0.0053)Pro+(-0.0291)Val+(0.0294)Leu;0.639,0.698,0.664,0.676,0.643,0.793,0.584,0.674,(0.1764)+(0.0282)Ser+(-0.0028)Gln+(-0.0169)Thr+(-0.0137)Val+(0.0261)Orn;0.639,0.688,0.712,0.711,0.712,0.795,0.655,0.718,(3.4127)+(0.0082)Thr+(-0.0632)Cit+(-0.0263)Val+(-0.0160)Lys+(0.0383)Leu;0.639,0.682,0.625,0.597,0.658,0.700,0.574,0.632,(-0.4857)+(0.0315)Ser+(-0.0048)Gly+(-0.0020)Gln+(-0.0826)Cit+(0.0001)Pro;0.639,0.695,0.677,0.644

,0.673,0.731,0.736,0.696,(0.8169)+(-0.0055)Thr+(0.0152)Orn+(-0.0270)Lys+(0.0317)Ile+(0.0073)Phe;0.639,0.695,0.666,0.645,0.736,0.737,0.523,0.660,(0.6434)+(0.0012)Gly+(0.0002)Gln+(-0.0982)Cit+(-0.0177)Arg+(0.0343)Orn;0.638,0.684,0.677,0.669,0.724,0.727,0.561,0.670,(0.2107)+(-0.1100)Cit+(-0.0009)Pro+(0.0403)Orn+(-0.0234)Leu+(0.0350)Phe;0.638,0.700,0.689,0.661,0.744,0.746,0.607,0.690,(0.8607)+(-0.0085)Thr+(-0.0978)Cit+(-0.0130)Arg+(0.0379)Orn+(0.0084)Phe;0.638,0.694,0.747,0.774,0.765,0.775,0.622,0.734,(3.8951)+(-0.1052)Asn+(0.0065)Thr+(-0.0180)Arg+(0.0267)Orn+(-0.0151)Leu;0.638,0.687,0.751,0.770,0.675,0.814,0.814,0.768,(1.3428)+(-0.0008)Gly+(0.0008)Gln+(-0.0066)Thr+(-0.0120)Ala+(0.0102)Pro;0.638,0.703,0.765,0.825,0.715,0.848,0.654,0.760,(3.4535)+(0.0080)Thr+(-0.0053)Ala+(-0.0282)Tyr+(-0.0054)Val+(-0.0078)Lys;0.638,0.693,0.731,0.754,0.701,0.764,0.711,0.733,(1.8757)+(-0.0168)Arg+(-0.0291)Val+(-0.0110)Lys+(0.0306)Leu+(0.0438)Phe;0.638,0.691,0.746,0.794,0.696,0.776,0.699,0.741,(3.7532)+(-0.0016)Gly+(-0.0146)Arg+(-0.0349)Tyr+(-0.0267)Val+(0.0345)Leu;0.638,0.689,0.634,0.695,0.585,0.612,0.587,0.620,(0.0901)+(-0.0045)Thr+(0.0028)Pro+(-0.0797)Tyr+(0.0130)Orn+(0.0457)Phe;0.638,0.690,0.709,0.724,0.721,0.760,0.612,0.704,(1.5435)+(0.0025)Gly+(-0.0743)Cit+(-0.0112)Val+(-0.0141)Lys+(0.0597)Phe;0.638,0.693,0.728,0.748,0.665,0.812,0.747,0.743,(1.4692)+(-0.0007)Gln+(-0.0117)Ala+(0.0099)Pro+(0.0161)Orn+(-0.0103)Leu;0.638,0.688,0.656,0.721,0.596,0.605,0.642,0.641,(0.5036)+(-0.0030)Gly+(0.0006)Gln+(0.0033)Pro+(-0.0829)Tyr+(0.0490)Phe;0.638,0.693,0.735,0.751,0.734,0.774,0.671,0.732,(1.0506)+(0.0028)Gln+(-0.0755)Cit+(-0.0110)Val+(-0.0156)Lys+(0.0542)Phe;0.638,0.704,0.690,0.728,0.686,0.793,0.526,0.683,(-0.3460)+(0.0309)Ser+(-0.0005)Gln+(-0.0111)Thr+(-0.0243)Arg+(-0.0094)Leu;0.638,0.685,0.555,0.499,0.607,0.661,0.514,0.570,(-1.6854)+(0.0285)Ser+(-0.0037)Gln+(-0.0935)Cit+(0.0248)Ile+(0.0062)Phe;0.638,0.683,0.632,0.667,0.581,0.653

,0.633,0.634,(0.8576)+(-0.0003)Gln+(-0.0047)Thr+(-0.0680)Tyr+(0.0107)Orn+(0.0312)Ile;0.638,0.694,0.726,0.742,0.743,0.741,0.640,0.716,(2.7839)+(-0.1072)Asn+(0.0018)Gly+(-0.0169)Arg+(0.0011)Pro+(0.0201)Orn;0.638,0.693,0.754,0.769,0.745,0.742,0.739,0.749,(1.4897)+(-0.1457)Asn+(0.0041)Gln+(0.0012)Thr+(-0.0003)Pro+(0.0117)Orn;0.638,0.689,0.699,0.768,0.646,0.726,0.608,0.687,(2.4654)+(0.0008)Gln+(-0.0007)Thr+(0.0082)Pro+(-0.0482)Tyr+(-0.0126)Val;0.638,0.684,0.711,0.732,0.729,0.740,0.598,0.700,(1.2354)+(-0.0228)Arg+(0.0262)Orn+(-0.0150)Lys+(-0.0171)Leu+(0.0407)Phe;0.638,0.688,0.704,0.704,0.697,0.709,0.716,0.706,(1.8641)+(-0.1286)Asn+(0.0023)Gly+(0.0023)Thr+(-0.0020)Pro+(0.0248)Ile;0.637,0.701,0.775,0.821,0.729,0.828,0.711,0.772,(3.5546)+(-0.0059)Ala+(-0.0109)Arg+(-0.0263)Tyr+(-0.0058)Lys+(0.0034)Leu;0.637,0.695,0.737,0.779,0.695,0.783,0.679,0.734,(3.6769)+(-0.0117)Arg+(-0.0305)Tyr+(-0.0264)Val+(-0.0063)Lys+(0.0374)Leu;0.637,0.692,0.718,0.711,0.714,0.716,0.745,0.722,(2.0566)+(-0.1258)Asn+(0.0019)Thr+(-0.0023)Pro+(0.0100)Orn+(0.0201)Ile;0.637,0.692,0.700,0.747,0.680,0.753,0.577,0.689,(2.2739)+(0.0013)Gln+(-0.0466)Tyr+(0.0282)Orn+(-0.0158)Lys+(-0.0033)Leu;0.637,0.696,0.598,0.604,0.595,0.696,0.520,0.604,(-0.8917)+(0.0250)Ser+(-0.0053)Gln+(-0.0209)Val+(0.0180)Orn+(0.0486)Phe;0.637,0.694,0.704,0.764,0.662,0.752,0.595,0.693,(3.2497)+(0.0044)Thr+(0.0081)Pro+(-0.0440)Tyr+(-0.0105)Val+(-0.0085)Lys;0.637,0.704,0.646,0.653,0.651,0.753,0.540,0.649,(-1.8248)+(0.0330)Ser+(-0.0186)Thr+(-0.0272)Arg+(0.0022)Pro+(0.0135)Orn;0.637,0.696,0.585,0.529,0.569,0.654,0.717,0.617,(-2.6003)+(0.0465)Ser+(-0.0057)Gly+(-0.0031)Gln+(-0.0253)Thr+(0.0280)Ile;0.637,0.686,0.594,0.546,0.626,0.675,0.594,0.610,(-2.2296)+(0.0282)Ser+(-0.0043)Gly+(-0.0941)Cit+(0.0208)Ile+(-0.0004)Phe;0.637,0.696,0.632,0.638,0.639,0.739,0.526,0.636,(-1.2101)+(0.0351)Ser+(-0.0015)Gln+(-0.0155)Thr+(-0.0248)Arg+(0.0036)Pro;0.637,0.694,0.724,0.726,0.728,0.695,0.729,0.72

0,(1.8115)+(-0.1356)Asn+(0.0027)Thr+(-0.0008)Pro+(0.0121)Orn+(0.0250)Phe;0.637,0.696,0.596,0.593,0.628,0.700,0.460,0.595,(-1.8615)+(0.0314)Ser+(-0.0028)Gln+(-0.0343)Arg+(0.0006)Pro+(0.0217)Phe;0.637,0.685,0.654,0.715,0.603,0.619,0.628,0.641,(0.5560)+(-0.0033)Gly+(0.0001)Gln+(-0.0820)Tyr+(0.0146)Orn+(0.0471)Phe;0.637,0.697,0.783,0.830,0.738,0.830,0.717,0.779,(3.8108)+(-0.0010)Gly+(-0.0056)Ala+(-0.0109)Arg+(-0.0263)Tyr+(-0.0046)Lys;0.637,0.696,0.765,0.815,0.716,0.824,0.696,0.763,(3.6949)+(-0.0027)Gly+(0.0101)Thr+(-0.0061)Ala+(-0.0344)Tyr+(-0.0101)Lys;0.637,0.690,0.606,0.563,0.634,0.688,0.603,0.622,(-2.0903)+(0.0285)Ser+(-0.0041)Gly+(-0.0933)Cit+(-0.0050)Pro+(0.0278)Ile;0.637,0.694,0.694,0.673,0.674,0.749,0.754,0.713,(0.5372)+(0.0011)Gln+(-0.0048)Pro+(-0.0280)Lys+(0.0407)Ile+(0.0095)Phe;0.637,0.685,0.615,0.676,0.570,0.600,0.557,0.601,(0.2558)+(-0.0009)Gln+(0.0026)Pro+(-0.0822)Tyr+(0.0121)Orn+(0.0471)Phe;0.637,0.701,0.597,0.592,0.635,0.708,0.454,0.597,(-1.8196)+(0.0309)Ser+(-0.0030)Gln+(-0.0348)Arg+(0.0064)Orn+(0.0201)Phe;0.637,0.678,0.632,0.629,0.669,0.722,0.499,0.629,(0.0693)+(0.0245)Ser+(-0.0017)Gln+(-0.0834)Cit+(0.0028)Pro+(-0.0113)Leu;0.637,0.686,0.623,0.582,0.677,0.710,0.557,0.631,(-0.5414)+(0.0014)Gly+(-0.1154)Cit+(-0.0064)Pro+(0.0292)Orn+(0.0229)Ile;0.637,0.695,0.763,0.830,0.729,0.812,0.620,0.748,(2.6004)+(0.0037)Gln+(-0.0188)Arg+(-0.0335)Tyr+(-0.0084)Val+(-0.0047)Lys;0.637,0.689,0.690,0.667,0.674,0.741,0.752,0.708,(0.9676)+(-0.0020)Thr+(-0.0043)Pro+(-0.0263)Lys+(0.0404)Ile+(0.0107)Phe;0.637,0.688,0.650,0.714,0.594,0.600,0.631,0.635,(0.6628)+(-0.0028)Gly+(0.0006)Thr+(0.0034)Pro+(-0.0827)Tyr+(0.0497)Phe;0.636,0.694,0.743,0.766,0.745,0.754,0.671,0.734,(3.5614)+(-0.0889)Asn+(0.0018)Gly+(-0.0100)Arg+(0.0034)Pro+(-0.0073)Lys;0.636,0.693,0.722,0.725,0.723,0.726,0.705,0.720,(2.5657)+(-0.1107)Asn+(0.0074)Thr+(-0.0178)Arg+(-0.0018)Pro+(0.0244)Ile;0.636,0.687,0.656,0.716,0.606,0.622,0.631,0.643,(0.5975)+(

-0.0031)Gly+(-0.0013)Thr+(-0.0809)Tyr+(0.0153)Orn+(0.0470)Phe;0.636,0.692,0.682,0.737,0.673,0.723,0.528,0.665,(3.2250)+(0.0096)Thr+(-0.0186)Arg+(0.0057)Pro+(-0.0507)Tyr+(-0.0105)Lys;0.636,0.690,0.725,0.755,0.730,0.804,0.580,0.717,(2.8426)+(0.0017)Thr+(-0.0221)Arg+(-0.0141)Val+(0.0344)Orn+(-0.0094)Lys;0.636,0.695,0.680,0.651,0.672,0.741,0.728,0.698,(0.7934)+(-0.0050)Pro+(0.0144)Orn+(-0.0288)Lys+(0.0379)Ile+(0.0085)Phe;0.636,0.683,0.728,0.761,0.724,0.742,0.638,0.716,(0.8172)+(0.0022)Gln+(-0.0596)Cit+(-0.0171)Arg+(-0.0158)Val+(0.0490)Phe;0.636,0.684,0.751,0.770,0.699,0.803,0.770,0.760,(2.3867)+(-0.0018)Gly+(0.0015)Gln+(-0.0294)Val+(-0.0150)Lys+(0.0386)Leu;0.636,0.697,0.692,0.666,0.676,0.737,0.762,0.710,(0.5330)+(0.0011)Gln+(-0.0045)Thr+(-0.0265)Lys+(0.0348)Ile+(0.0084)Phe;0.636,0.684,0.639,0.702,0.592,0.620,0.584,0.625,(0.2469)+(-0.0005)Gln+(-0.0034)Thr+(-0.0776)Tyr+(0.0147)Orn+(0.0480)Phe;0.635,0.694,0.778,0.830,0.728,0.820,0.715,0.773,(3.5363)+(-0.0011)Gly+(-0.0060)Ala+(-0.0138)Arg+(-0.0297)Tyr+(0.0003)Leu;0.635,0.682,0.603,0.571,0.642,0.668,0.563,0.611,(-1.2639)+(0.0322)Ser+(-0.0041)Gly+(-0.0026)Gln+(-0.0866)Cit+(0.0183)Phe;0.635,0.686,0.674,0.663,0.725,0.728,0.558,0.669,(0.4975)+(-0.0008)Gln+(-0.1089)Cit+(0.0410)Orn+(-0.0237)Leu+(0.0350)Phe;0.635,0.693,0.678,0.736,0.642,0.712,0.572,0.666,(1.9555)+(-0.0061)Thr+(0.0060)Pro+(-0.0559)Tyr+(0.0240)Orn+(-0.0137)Leu;0.635,0.685,0.725,0.730,0.719,0.787,0.680,0.729,(3.6180)+(-0.0578)Cit+(-0.0025)Arg+(-0.0250)Val+(-0.0117)Lys+(0.0358)Leu;0.635,0.692,0.691,0.734,0.678,0.747,0.564,0.681,(2.6828)+(0.0014)Thr+(-0.0465)Tyr+(0.0292)Orn+(-0.0154)Lys+(-0.0032)Leu;0.635,0.689,0.688,0.664,0.671,0.741,0.746,0.706,(0.9139)+(0.0000)Gly+(-0.0045)Pro+(-0.0271)Lys+(0.0404)Ile+(0.0105)Phe;0.635,0.688,0.655,0.630,0.727,0.727,0.516,0.650,(0.2984)+(0.0015)Gly+(-0.0984)Cit+(-0.0181)Arg+(0.0331)Orn+(0.0087)Phe;0.635,0.687,0.717,0.729,0.718,0

.720,0.680,0.712,(2.4221)+(-0.1280)Asn+(0.0014)Gly+(0.0017)Thr+(0.0004)Pro+(0.0154)Orn;0.635,0.685,0.723,0.755,0.715,0.780,0.619,0.717,(2.6120)+(-0.0020)Gly+(-0.0265)Arg+(0.0044)Pro+(-0.0185)Val+(0.0309)Orn;0.635,0.690,0.757,0.788,0.717,0.818,0.714,0.759,(2.3130)+(0.0023)Gln+(-0.0171)Arg+(-0.0286)Val+(-0.0108)Lys+(0.0365)Leu;0.635,0.695,0.630,0.623,0.627,0.743,0.570,0.641,(-0.4711)+(0.0354)Ser+(-0.0015)Gln+(-0.0124)Thr+(0.0045)Pro+(-0.0186)Lys;0.635,0.688,0.711,0.758,0.688,0.724,0.622,0.698,(3.4729)+(-0.0013)Gly+(-0.0136)Arg+(0.0062)Pro+(-0.0471)Tyr+(-0.0083)Lys;0.635,0.686,0.687,0.738,0.675,0.716,0.555,0.671,(2.8256)+(-0.0030)Gly+(0.0054)Thr+(-0.0246)Arg+(-0.0593)Tyr+(0.0253)Orn;0.635,0.685,0.683,0.744,0.670,0.730,0.514,0.664,(1.7999)+(0.0016)Gln+(0.0021)Thr+(-0.0267)Arg+(-0.0561)Tyr+(0.0227)Orn;0.635,0.695,0.788,0.841,0.733,0.841,0.729,0.786,(3.8505)+(-0.0017)Gly+(-0.0049)Ala+(-0.0250)Tyr+(-0.0055)Val+(-0.0048)Lys;0.635,0.688,0.739,0.757,0.675,0.813,0.770,0.754,(1.5460)+(-0.0020)Gly+(-0.0116)Ala+(0.0098)Pro+(0.0163)Orn+(-0.0108)Leu;0.635,0.689,0.731,0.746,0.737,0.758,0.660,0.725,(2.0628)+(-0.0639)Cit+(-0.0058)Arg+(-0.0120)Val+(-0.0116)Lys+(0.0579)Phe;0.635,0.686,0.724,0.737,0.679,0.776,0.749,0.735,(2.7294)+(-0.0013)Gly+(0.0042)Pro+(-0.0305)Val+(-0.0142)Lys+(0.0378)Leu;0.635,0.690,0.662,0.634,0.712,0.729,0.583,0.664,(0.1426)+(0.0024)Gly+(-0.0135)Thr+(-0.1109)Cit+(0.0377)Orn+(0.0098)Phe;0.634,0.686,0.748,0.782,0.736,0.801,0.642,0.740,(2.3044)+(-0.0026)Gly+(0.0014)Gln+(-0.0274)Arg+(-0.0173)Val+(0.0315)Orn;0.634,0.684,0.712,0.784,0.684,0.740,0.561,0.692,(2.1946)+(0.0029)Gln+(-0.0235)Arg+(0.0071)Pro+(-0.0504)Tyr+(-0.0109)Leu;0.634,0.695,0.729,0.753,0.706,0.809,0.660,0.732,(2.9907)+(0.0095)Thr+(-0.0180)Arg+(-0.0311)Val+(-0.0124)Lys+(0.0406)Leu;0.634,0.689,0.793,0.830,0.745,0.836,0.765,0.794,(1.6309)+(-0.0014)Gly+(0.0026)Gln+(0.0020)Thr+(-0.0087)Ala+(-0.0219)Arg;0.634,0.687,0.761,0.793,0.756,0.749,0.696,

0.748,(1.8429)+(-0.1337)Asn+(0.0055)Gln+(0.0069)Thr+(-0.0205)Arg+(0.0007)Pro;0.634,0.693,0.685,0.655,0.732,0.734,0.628,0.687,(0.5678)+(-0.0114)Thr+(-0.1088)Cit+(-0.0025)Pro+(0.0396)Orn+(0.0096)Phe;0.634,0.682,0.634,0.670,0.580,0.653,0.635,0.635,(0.7543)+(-0.0051)Thr+(0.0003)Pro+(-0.0683)Tyr+(0.0103)Orn+(0.0307)Ile;0.634,0.694,0.599,0.589,0.616,0.708,0.510,0.606,(-2.8348)+(0.0283)Ser+(-0.0382)Arg+(-0.0035)Pro+(0.0272)Ile+(0.0044)Phe;0.634,0.679,0.612,0.631,0.564,0.700,0.601,0.624,(-1.9194)+(0.0191)Ser+(0.0019)Pro+(-0.0322)Val+(0.0250)Leu+(0.0299)Phe;0.634,0.690,0.709,0.765,0.690,0.736,0.582,0.693,(3.4134)+(-0.0156)Arg+(0.0072)Pro+(-0.0448)Tyr+(-0.0061)Lys+(-0.0066)Leu;0.634,0.688,0.727,0.749,0.695,0.788,0.694,0.731,(3.0018)+(-0.0159)Arg+(0.0053)Pro+(-0.0303)Val+(-0.0095)Lys+(0.0361)Leu;0.634,0.689,0.733,0.746,0.688,0.800,0.743,0.744,(2.7807)+(-0.0018)Gly+(0.0059)Thr+(-0.0310)Val+(-0.0161)Lys+(0.0412)Leu;0.634,0.687,0.748,0.793,0.724,0.764,0.667,0.737,(0.9626)+(0.0021)Gln+(-0.0213)Arg+(-0.0152)Val+(-0.0096)Lys+(0.0505)Phe;0.634,0.687,0.762,0.796,0.756,0.755,0.689,0.749,(1.8383)+(-0.1340)Asn+(0.0005)Gly+(0.0054)Gln+(0.0071)Thr+(-0.0204)Arg;0.634,0.694,0.721,0.713,0.719,0.701,0.759,0.723,(1.7159)+(-0.1323)Asn+(0.0036)Thr+(-0.0023)Pro+(0.0182)Ile+(0.0184)Phe;0.634,0.690,0.615,0.574,0.578,0.679,0.754,0.646,(-3.4353)+(0.0439)Ser+(-0.0065)Gly+(-0.0274)Thr+(-0.0020)Pro+(0.0276)Ile;0.634,0.703,0.618,0.610,0.639,0.753,0.501,0.626,(-0.0786)+(0.0300)Ser+(-0.0025)Gln+(0.0191)Orn+(-0.0236)Lys+(-0.0014)Leu;0.633,0.689,0.769,0.803,0.758,0.755,0.711,0.757,(1.7463)+(-0.1249)Asn+(0.0008)Gly+(0.0056)Gln+(-0.0184)Arg+(0.0014)Pro;0.633,0.695,0.728,0.794,0.714,0.793,0.533,0.709,(3.7851)+(0.0116)Thr+(-0.0195)Arg+(-0.0365)Tyr+(-0.0087)Val+(-0.0053)Lys;0.633,0.690,0.792,0.823,0.751,0.847,0.755,0.794,(3.1076)+(-0.0003)Gly+(-0.0072)Ala+(-0.0121)Arg+(-0.0081)Lys+(0.0016)Leu;0.633,0.687,0.715,0.749,0.706,0.785,0.594,0.708,(2.3349

)+(-0.0025)Thr+(-0.0261)Arg+(0.0047)Pro+(-0.0180)Val+(0.0308)Orn;0.63
3,0.695,0.683,0.694,0.638,0.705,0.733,0.692,(-2.2986)+(0.0403)Ser+(-0
.0072)Gly+(-0.0211)Thr+(-0.0185)Leu+(0.0372)Phe;0.633,0.686,0.661,0.6
68,0.627,0.719,0.671,0.671,(0.9090)+(-0.0028)Gln+(-0.0351)Val+(0.0249
)Orn+(0.0288)Leu+(0.0290)Phe;0.633,0.689,0.735,0.774,0.727,0.803,0.59
9,0.726,(2.0739)+(0.0010)Gln+(-0.0022)Thr+(-0.0268)Arg+(-0.0167)Val+(
0.0316)Orn;0.633,0.685,0.634,0.702,0.580,0.603,0.592,0.619,(0.2296)+(
-0.0001)Gln+(-0.0019)Thr+(0.0034)Pro+(-0.0798)Tyr+(0.0498)Phe;0.633,0
.684,0.710,0.765,0.685,0.730,0.603,0.696,(2.1035)+(-0.0034)Gly+(0.002
5)Gln+(-0.0252)Arg+(-0.0583)Tyr+(0.0244)Orn;0.633,0.687,0.625,0.572,0
.688,0.703,0.577,0.635,(0.1845)+(-0.0011)Gln+(-0.1102)Cit+(0.0291)Orn
+(0.0166)Ile+(-0.0073)Phe;0.633,0.693,0.684,0.654,0.673,0.732,0.751,0
.702,(0.5892)+(-0.0005)Gly+(0.0009)Gln+(-0.0278)Lys+(0.0340)Ile+(0.00
81)Phe;0.633,0.687,0.716,0.726,0.719,0.752,0.656,0.713,(1.9480)+(-0.0
693)Cit+(0.0037)Pro+(-0.0126)Val+(-0.0136)Lys+(0.0543)Phe;0.633,0.692
,0.775,0.817,0.722,0.822,0.742,0.776,(3.4999)+(-0.0013)Gly+(-0.0062)A
la+(-0.0287)Tyr+(-0.0086)Lys+(0.0044)Leu;0.633,0.691,0.799,0.828,0.73
9,0.854,0.807,0.807,(2.0210)+(-0.0018)Gly+(0.0026)Gln+(-0.0079)Ala+(-
0.0136)Lys+(0.0023)Leu;0.633,0.687,0.720,0.738,0.674,0.781,0.727,0.73
0,(2.2840)+(0.0006)Gln+(0.0039)Pro+(-0.0303)Val+(-0.0151)Lys+(0.0377)
Leu;0.633,0.684,0.659,0.667,0.620,0.746,0.657,0.673,(1.6804)+(-0.0026
)Gln+(0.0027)Pro+(-0.0356)Val+(0.0251)Orn+(0.0335)Leu;0.633,0.679,0.6
24,0.599,0.651,0.681,0.590,0.630,(-1.8357)+(0.0292)Ser+(-0.0047)Gly+(
-0.0905)Cit+(-0.0017)Pro+(0.0157)Phe;0.633,0.691,0.683,0.654,0.672,0.
731,0.747,0.701,(0.8648)+(0.0002)Gly+(-0.0036)Thr+(-0.0260)Lys+(0.035
0)Ile+(0.0095)Phe;0.633,0.677,0.584,0.556,0.632,0.666,0.501,0.589,(-1
.4592)+(0.0277)Ser+(-0.0029)Gln+(-0.0916)Cit+(-0.0008)Pro+(0.0231)Phe
;0.633,0.688,0.717,0.727,0.729,0.762,0.635,0.713,(1.8723)+(0.0056)Thr

+(-0.0718)Cit+(-0.0117)Val+(-0.0155)Lys+(0.0571)Phe;0.633,0.686,0.756,0.780,0.743,0.734,0.734,0.748,(1.5575)+(-0.1468)Asn+(0.0006)Gly+(0.0044)Gln+(0.0029)Thr+(0.0005)Pro;0.632,0.690,0.795,0.854,0.745,0.860,0.698,0.789,(2.2768)+(0.0025)Gln+(0.0045)Thr+(-0.0065)Ala+(-0.0219)Arg+(-0.0092)Val;0.632,0.682,0.757,0.781,0.688,0.820,0.789,0.770,(2.0138)+(-0.0008)Gly+(-0.0050)Thr+(-0.0111)Ala+(0.0112)Pro+(-0.0074)Leu;0.632,0.686,0.724,0.761,0.705,0.741,0.654,0.715,(1.6478)+(-0.0199)Arg+(0.0046)Pro+(-0.0167)Val+(-0.0087)Lys+(0.0495)Phe;0.632,0.685,0.813,0.866,0.759,0.853,0.757,0.808,(2.4038)+(-0.0019)Gly+(0.0033)Gln+(-0.0062)Ala+(-0.0198)Arg+(-0.0089)Val;0.632,0.690,0.722,0.740,0.742,0.737,0.622,0.710,(2.8501)+(-0.1135)Asn+(0.0015)Gly+(0.0053)Thr+(-0.0183)Arg+(0.0187)Orn;0.632,0.689,0.744,0.808,0.717,0.776,0.605,0.727,(2.2307)+(0.0037)Gln+(-0.0182)Arg+(-0.0398)Tyr+(-0.0087)Lys+(-0.0027)Leu;0.632,0.683,0.755,0.781,0.684,0.820,0.786,0.768,(1.6546)+(-0.0017)Gly+(0.0005)Gln+(-0.0115)Ala+(0.0106)Pro+(-0.0084)Leu;0.632,0.690,0.669,0.644,0.737,0.728,0.552,0.665,(0.4501)+(0.0004)Gln+(-0.0967)Cit+(-0.0181)Arg+(0.0331)Orn+(0.0064)Phe;0.632,0.687,0.746,0.774,0.737,0.750,0.686,0.737,(3.7634)+(-0.0977)Asn+(0.0013)Gly+(0.0045)Pro+(-0.0057)Lys+(-0.0094)Leu;0.632,0.688,0.770,0.830,0.693,0.815,0.738,0.769,(2.2564)+(-0.0034)Gly+(0.0022)Gln+(0.0036)Thr+(-0.0071)Ala+(-0.0414)Tyr;0.632,0.675,0.697,0.697,0.720,0.733,0.628,0.694,(1.3226)+(-0.0006)Gly+(-0.0198)Arg+(0.0232)Orn+(-0.0205)Lys+(0.0240)Phe;0.632,0.694,0.600,0.590,0.618,0.710,0.510,0.607,(-2.6701)+(0.0281)Ser+(-0.0377)Arg+(-0.0034)Pro+(-0.0007)Orn+(0.0285)Ile;0.632,0.690,0.812,0.857,0.747,0.870,0.786,0.815,(2.4420)+(-0.0022)Gly+(0.0027)Gln+(-0.0064)Ala+(-0.0067)Val+(-0.0093)Lys;0.632,0.685,0.727,0.736,0.740,0.760,0.654,0.723,(0.7818)+(0.0032)Gln+(-0.0841)Cit+(-0.0188)Lys+(-0.0091)Leu+(0.0477)Phe;0.632,0.691,0.659,0.725,0.625,0.699,0.526,0.644,(1.8550)+(-0.0003)Gln+(0.0056)P

ro+(-0.0593)Tyr+(0.0211)Orn+(-0.0135)Leu;0.632,0.683,0.756,0.784,0.682,0.822,0.790,0.770,(1.5907)+(0.0008)Gln+(-0.0065)Thr+(-0.0112)Ala+(0.0112)Pro+(-0.0074)Leu;0.632,0.683,0.693,0.701,0.645,0.760,0.720,0.707,(1.8747)+(-0.0025)Gly+(-0.0018)Gln+(-0.0353)Val+(0.0271)Orn+(0.0339)Leu;0.632,0.686,0.699,0.706,0.730,0.748,0.579,0.691,(1.3585)+(0.0029)Gly+(-0.0830)Cit+(-0.0171)Lys+(-0.0090)Leu+(0.0534)Phe;0.632,0.689,0.680,0.650,0.726,0.732,0.629,0.684,(0.3947)+(0.0005)Gln+(-0.0126)Thr+(-0.1081)Cit+(0.0376)Orn+(0.0062)Phe;0.632,0.684,0.725,0.778,0.678,0.740,0.674,0.717,(2.4281)+(-0.0033)Gly+(0.0029)Gln+(0.0052)Pro+(-0.0520)Tyr+(-0.0138)Lys;0.632,0.686,0.734,0.753,0.744,0.748,0.653,0.724,(3.8188)+(-0.0977)Asn+(0.0109)Thr+(-0.0129)Arg+(0.0023)Pro+(-0.0093)Lys;0.632,0.689,0.752,0.824,0.693,0.755,0.683,0.739,(2.7321)+(-0.0042)Gly+(0.0020)Gln+(0.0034)Thr+(-0.0463)Tyr+(-0.0106)Val;0.632,0.689,0.773,0.808,0.702,0.807,0.801,0.78
0,(0.2461)+(0.0005)Gln+(-0.0045)Thr+(-0.0096)Ala+(-0.0114)Leu+(0.0459)Phe;0.632,0.690,0.796,0.830,0.737,0.852,0.789,0.802,(2.1085)+(-0.0021)Gly+(0.0025)Gln+(0.0026)Thr+(-0.0078)Ala+(-0.0136)Lys;0.632,0.686,0.765,0.787,0.690,0.812,0.826,0.779,(0.2177)+(-0.0005)Gly+(0.0005)Gln+(-0.0051)Thr+(-0.0107)Ala+(0.0337)Phe;0.632,0.683,0.667,0.736,0.608,0.612,0.644,0.650,(0.4707)+(-0.0030)Gly+(0.0007)Gln+(0.0009)Thr+(-0.0805)Tyr+(0.0515)Phe;0.631,0.686,0.740,0.770,0.734,0.739,0.673,0.729,(3.5588)+(-0.1188)Asn+(0.0009)Gly+(0.0056)Thr+(0.0039)Pro+(-0.0133)Leu;0.631,0.690,0.620,0.635,0.576,0.712,0.606,0.632,(-1.9638)+(0.0174)Ser+(-0.0336)Val+(0.0123)Orn+(0.0262)Leu+(0.0290)Phe;0.631,0.691,0.743,0.808,0.722,0.781,0.585,0.724,(4.1356)+(-0.0031)Gly+(0.0123)Thr+(-0.0212)Arg+(-0.0416)Tyr+(-0.0102)Val;0.631,0.688,0.770,0.803,0.703,0.808,0.796,0.778,(0.3388)+(-0.0011)Gly+(0.0003)Gln+(-0.0099)Ala+(-0.0120)Leu+(0.0445)Phe;0.631,0.697,0.751,0.802,0.698,0.822,0.679,0.750,(3.137

5)+(0.0083)Thr+(-0.0066)Ala+(-0.0329)Tyr+(-0.0118)Lys+(0.0054)Leu;0.631,0.689,0.780,0.849,0.735,0.796,0.677,0.764,(2.8525)+(-0.0034)Gly+(0.0042)Gln+(-0.0205)Arg+(-0.0384)Tyr+(-0.0098)Val;0.631,0.691,0.668,0.632,0.667,0.725,0.722,0.687,(0.7895)+(-0.0006)Gly+(0.0133)Orn+(-0.0287)Lys+(0.0311)Ile+(0.0069)Phe;0.631,0.690,0.665,0.629,0.664,0.727,0.716,0.684,(0.5827)+(0.0003)Gln+(0.0125)Orn+(-0.0290)Lys+(0.0315)Ile+(0.0070)Phe;0.631,0.673,0.705,0.720,0.701,0.748,0.643,0.703,(2.8893)+(-0.0514)Cit+(-0.0132)Arg+(0.0050)Pro+(-0.0273)Val+(0.0281)Leu;0.631,0.690,0.713,0.726,0.671,0.785,0.711,0.723,(2.4423)+(0.0033)Thr+(0.0037)Pro+(-0.0311)Val+(-0.0160)Lys+(0.0391)Leu;0.631,0.691,0.778,0.813,0.743,0.844,0.709,0.777,(2.9587)+(0.0073)Thr+(-0.0075)Ala+(-0.0153)Arg+(-0.0100)Lys+(0.0015)Leu;0.631,0.681,0.600,0.547,0.672,0.686,0.528,0.608,(-0.2077)+(0.0021)Gly+(-0.0017)Gln+(-0.1129)Cit+(0.0284)Orn+(0.0164)Ile;0.631,0.693,0.731,0.744,0.745,0.703,0.688,0.720,(2.2774)+(-0.1229)Asn+(0.0089)Thr+(-0.0182)Arg+(0.0000)Pro+(0.0323)Phe;0.631,0.686,0.696,0.745,0.664,0.721,0.614,0.686,(3.2739)+(-0.0029)Gly+(0.0070)Thr+(0.0053)Pro+(-0.0533)Tyr+(-0.0137)Lys;0.631,0.682,0.707,0.736,0.716,0.733,0.597,0.695,(1.2355)+(0.0017)Gly+(-0.0601)Cit+(-0.0147)Arg+(-0.0156)Val+(0.0533)Phe;0.631,0.687,0.772,0.805,0.705,0.807,0.802,0.780,(0.5260)+(-0.0006)Gly+(-0.0035)Thr+(-0.0095)Ala+(-0.0114)Leu+(0.0462)Phe;0.631,0.691,0.727,0.743,0.683,0.801,0.724,0.738,(2.2918)+(0.0006)Gln+(0.0042)Thr+(-0.0305)Val+(-0.0166)Lys+(0.0407)Leu;0.631,0.686,0.802,0.847,0.750,0.841,0.761,0.800,(1.8197)+(-0.0015)Gly+(0.0030)Gln+(-0.0079)Ala+(-0.0209)Arg+(-0.0043)Leu;0.631,0.688,0.784,0.810,0.733,0.850,0.770,0.791,(2.7692)+(-0.0012)Gly+(0.0044)Thr+(-0.0079)Ala+(-0.0131)Lys+(0.0027)Leu;0.631,0.693,0.681,0.689,0.638,0.758,0.693,0.694,(-0.2974)+(0.0280)Ser+(-0.0094)Gly+(0.0037)Pro+(-0.0185)Val+(0.0145)Orn;0.631,0.691,0.787,0.821,0.725,0.854,0.775,0.794,(1.8704)+(0.0020)Gln+

(0.0017)Thr+(-0.0080)Ala+(-0.0141)Lys+(0.0029)Leu;0.630,0.677,0.696,0.696,0.717,0.734,0.621,0.692,(1.2311)+(-0.0005)Thr+(-0.0199)Arg+(0.0231)Orn+(-0.0204)Lys+(0.0244)Phe;0.630,0.691,0.553,0.499,0.542,0.663,0.637,0.585,(-2.7782)+(0.0401)Ser+(-0.0038)Gln+(-0.0254)Thr+(-0.0016)Pro+(0.0331)Ile;0.630,0.685,0.736,0.756,0.737,0.794,0.637,0.731,(2.4088)+(0.0030)Gln+(-0.0726)Cit+(0.0046)Pro+(-0.0089)Val+(-0.0126)Lys;0.630,0.686,0.743,0.768,0.739,0.753,0.679,0.735,(3.9135)+(-0.1066)Asn+(0.0082)Thr+(0.0036)Pro+(-0.0075)Lys+(-0.0094)Leu;0.630,0.688,0.716,0.778,0.675,0.728,0.633,0.703,(2.2610)+(-0.0045)Gly+(0.0010)Gln+(-0.0577)Tyr+(0.0251)Orn+(-0.0120)Leu;0.630,0.683,0.660,0.661,0.628,0.737,0.669,0.674,(0.6536)+(0.0332)Ser+(-0.0084)Gly+(-0.0028)Gln+(0.0054)Pro+(-0.0164)Val;0.630,0.680,0.712,0.731,0.705,0.737,0.656,0.707,(1.6700)+(-0.0534)Cit+(-0.0145)Arg+(-0.0259)Val+(0.0212)Leu+(0.0438)Phe;0.630,0.689,0.729,0.742,0.748,0.735,0.651,0.719,(2.9831)+(-0.1116)Asn+(0.0056)Thr+(-0.0182)Arg+(0.0005)Pro+(0.0184)Orn;0.630,0.688,0.737,0.777,0.702,0.760,0.687,0.731,(1.0082)+(0.0011)Gln+(-0.0252)Arg+(-0.0298)Val+(0.0246)Leu+(0.0393)Phe;0.630,0.693,0.673,0.641,0.669,0.728,0.729,0.692,(0.8309)+(-0.0009)Gly+(0.0005)Gln+(0.0133)Orn+(-0.0285)Lys+(0.0323)Ile;0.630,0.676,0.696,0.698,0.718,0.734,0.619,0.692,(1.2310)+(-0.0200)Arg+(-0.0006)Pro+(0.0232)Orn+(-0.0204)Lys+(0.0249)Phe;0.630,0.682,0.757,0.813,0.722,0.772,0.667,0.744,(2.4568)+(-0.0030)Gly+(0.0044)Gln+(-0.0171)Arg+(-0.0435)Tyr+(-0.0097)Lys;0.630,0.687,0.735,0.763,0.744,0.753,0.632,0.723,(3.7854)+(-0.0991)Asn+(0.0010)Gly+(0.0114)Thr+(-0.0130)Arg+(-0.0086)Lys;0.630,0.697,0.648,0.655,0.637,0.765,0.569,0.656,(-0.3499)+(0.0339)Ser+(-0.0011)Gln+(-0.0103)Thr+(-0.0181)Lys+(0.0011)Leu;0.630,0.676,0.707,0.732,0.709,0.724,0.626,0.698,(1.5768)+(-0.0563)Cit+(-0.0155)Arg+(0.0041)Pro+(-0.0170)Val+(0.0483)Phe;0.630,0.687,0.608,0.563,0.573,0.675,0.753,0.641,(-3.3915)+(0.0440)Ser+(-0.0065)Gly

+(-0.0278)Thr+(0.0255)Ile+(-0.0022)Phe;0.630,0.681,0.703,0.709,0.722,0.738,0.620,0.697,(0.7660)+(0.0015)Gln+(-0.0217)Arg+(0.0213)Orn+(-0.0211)Lys+(0.0233)Phe;0.629,0.673,0.713,0.733,0.707,0.762,0.641,0.711,(2.9000)+(0.0006)Gly+(-0.0533)Cit+(-0.0115)Arg+(-0.0261)Val+(0.0299)Leu;0.629,0.696,0.620,0.617,0.631,0.745,0.513,0.626,(-0.1370)+(0.0312)Ser+(-0.0020)Gln+(0.0033)Pro+(-0.0219)Lys+(-0.0016)Leu;0.629,0.694,0.642,0.646,0.631,0.754,0.576,0.652,(-0.7770)+(0.0335)Ser+(-0.0133)Thr+(0.0045)Pro+(-0.0183)Lys+(-0.0023)Leu;0.629,0.685,0.692,0.704,0.649,0.763,0.701,0.704,(1.7235)+(-0.0016)Gln+(-0.0071)Thr+(-0.0339)Val+(0.0289)Orn+(0.0334)Leu;0.629,0.689,0.716,0.752,0.682,0.740,0.676,0.712,(1.3954)+(-0.0248)Arg+(0.0042)Pro+(-0.0309)Val+(0.0246)Leu+(0.0375)Phe;0.629,0.689,0.782,0.834,0.742,0.858,0.674,0.777,(3.4246)+(0.0086)Thr+(-0.0060)Ala+(-0.0171)Arg+(-0.0076)Val+(-0.0057)Lys;0.629,0.679,0.715,0.742,0.721,0.735,0.617,0.703,(1.5117)+(0.0024)Thr+(-0.0570)Cit+(-0.0157)Arg+(-0.0160)Val+(0.0513)Phe;0.629,0.674,0.726,0.757,0.728,0.767,0.613,0.716,(2.1547)+(0.0025)Gln+(-0.0587)Cit+(-0.0160)Arg+(0.0051)Pro+(-0.0132)Val;0.629,0.685,0.585,0.590,0.575,0.679,0.526,0.593,(-0.9404)+(0.0267)Ser+(-0.0049)Gln+(0.0040)Pro+(-0.0202)Val+(0.0474)Phe;0.629,0.685,0.779,0.838,0.702,0.820,0.752,0.778,(2.2490)+(-0.0030)Gly+(0.0025)Gln+(-0.0068)Ala+(-0.0383)Tyr+(-0.0013)Leu;0.629,0.686,0.756,0.787,0.753,0.752,0.686,0.744,(4.1471)+(-0.0865)Asn+(-0.0107)Arg+(0.0050)Pro+(-0.0035)Lys+(-0.0106)Leu;0.629,0.679,0.720,0.751,0.738,0.726,0.597,0.703,(0.3715)+(0.0025)Gln+(-0.0705)Cit+(-0.0178)Arg+(-0.0197)Leu+(0.0429)Phe;0.629,0.684,0.581,0.540,0.619,0.682,0.535,0.594,(-2.4789)+(0.0235)Ser+(-0.0996)Cit+(-0.0052)Pro+(0.0287)Ile+(0.0045)Phe;0.629,0.678,0.612,0.565,0.673,0.700,0.546,0.621,(-0.5111)+(0.0013)Gly+(-0.1132)Cit+(0.0266)Orn+(0.0170)Ile+(-0.0071)Phe;0.629,0.686,0.727,0.768,0.718,0.754,0.620,0.715,(1.5578)+(0.0071)Thr+(-0.0218)Arg+(-0.0160

)Val+(-0.0104)Lys+(0.0535)Phe;0.629,0.685,0.730,0.746,0.731,0.746,0.675,0.725,(3.4786)+(-0.1062)Asn+(0.0010)Gly+(0.0080)Thr+(0.0023)Pro+(-0.0109)Lys;0.629,0.681,0.753,0.777,0.754,0.806,0.648,0.746,(2.3981)+(-0.0001)Gly+(0.0035)Gln+(-0.0734)Cit+(-0.0071)Val+(-0.0125)Lys;0.629,0.691,0.795,0.846,0.734,0.873,0.734,0.797,(2.2844)+(0.0019)Gln+(0.0027)Thr+(-0.0066)Ala+(-0.0067)Val+(-0.0101)Lys;0.629,0.679,0.717,0.735,0.729,0.780,0.600,0.711,(3.2956)+(0.0011)Gly+(-0.0681)Cit+(0.0054)Pro+(-0.0093)Val+(-0.0103)Lys;0.629,0.699,0.630,0.631,0.640,0.754,0.518,0.636,(-0.7679)+(0.0269)Ser+(0.0018)Pro+(0.0159)Orn+(-0.0249)Lys+(-0.0033)Leu;0.629,0.685,0.721,0.739,0.701,0.778,0.676,0.723,(2.4648)+(-0.0027)Gly+(0.0037)Pro+(-0.0147)Val+(0.0300)Orn+(-0.0145)Lys;0.628,0.679,0.645,0.615,0.710,0.719,0.532,0.644,(0.5391)+(0.0009)Gly+(-0.0010)Gln+(-0.1123)Cit+(-0.0030)Pro+(0.0363)Orn;0.628,0.686,0.711,0.733,0.693,0.775,0.643,0.711,(2.1207)+(-0.0045)Thr+(0.0042)Pro+(-0.0143)Val+(0.0300)Orn+(-0.0136)Lys;0.628,0.687,0.712,0.769,0.677,0.727,0.624,0.699,(2.5848)+(-0.0038)Gly+(-0.0016)Thr+(-0.0552)Tyr+(0.0271)Orn+(-0.0116)Leu;0.628,0.688,0.783,0.817,0.749,0.843,0.719,0.782,(3.1533)+(-0.0010)Gly+(0.0078)Thr+(-0.0074)Ala+(-0.0152)Arg+(-0.0096)Lys;0.628,0.670,0.713,0.729,0.698,0.756,0.672,0.714,(2.0580)+(0.0013)Gln+(-0.0022)Thr+(-0.0663)Cit+(-0.0253)Val+(0.0272)Leu;0.628,0.685,0.713,0.761,0.682,0.726,0.639,0.702,(3.3495)+(-0.0022)Gly+(0.0066)Pro+(-0.0483)Tyr+(-0.0100)Lys+(-0.0050)Leu;0.628,0.682,0.748,0.774,0.745,0.763,0.670,0.738,(3.8969)+(-0.1068)Asn+(0.0006)Gly+(0.0094)Thr+(-0.0076)Lys+(-0.0069)Leu;0.628,0.674,0.728,0.752,0.719,0.772,0.652,0.724,(2.1733)+(0.0022)Gln+(-0.0547)Cit+(-0.0146)Arg+(-0.0255)Val+(0.0275)Leu;0.628,0.687,0.769,0.831,0.718,0.784,0.699,0.758,(2.8423)+(-0.0036)Gly+(0.0033)Gln+(-0.0386)Tyr+(-0.0080)Val+(-0.0086)Lys;0.628,0.681,0.736,0.777,0.718,0.746,0.658,0.725,(1.6337)+(-0.0000)Gly+(-0.0187)Arg+(-0.0153)Val+(-

0.0085)Lys+(0.0530)Phe;0.628,0.689,0.722,0.759,0.696,0.752,0.659,0.716,(1.2879)+(0.0040)Thr+(-0.0259)Arg+(-0.0309)Val+(0.0260)Leu+(0.0401)Phe;0.628,0.685,0.747,0.785,0.743,0.751,0.652,0.733,(3.8586)+(-0.0945)Asn+(0.0016)Gly+(-0.0127)Arg+(0.0051)Pro+(-0.0122)Leu;0.628,0.685,0.736,0.768,0.730,0.793,0.623,0.729,(2.7290)+(-0.0021)Gly+(-0.0004)Thr+(-0.0256)Arg+(-0.0170)Val+(0.0333)Orn;0.628,0.690,0.606,0.605,0.647,0.730,0.436,0.605,(-1.0536)+(0.0291)Ser+(-0.0026)Gln+(-0.0331)Arg+(0.0009)Pro+(0.0089)Orn;0.628,0.686,0.801,0.847,0.756,0.857,0.733,0.798,(3.6045)+(-0.0007)Gly+(-0.0057)Ala+(-0.0132)Arg+(-0.0072)Val+(-0.0035)Lys;0.627,0.686,0.759,0.814,0.693,0.808,0.712,0.757,(2.9773)+(-0.0027)Gly+(0.0055)Thr+(-0.0068)Ala+(-0.0391)Tyr+(-0.0006)Leu;0.627,0.692,0.688,0.755,0.675,0.728,0.509,0.667,(3.0772)+(0.0065)Thr+(-0.0231)Arg+(0.0072)Pro+(-0.0523)Tyr+(-0.0101)Leu;0.627,0.690,0.587,0.574,0.608,0.697,0.501,0.595,(-2.8856)+(0.0285)Ser+(-0.0386)Arg+(-0.0026)Orn+(0.0235)Ile+(0.0037)Phe;0.627,0.689,0.543,0.487,0.534,0.654,0.632,0.577,(-2.9195)+(0.0406)Ser+(-0.0040)Gln+(-0.0262)Thr+(0.0299)Ile+(0.0043)Phe;0.627,0.686,0.793,0.841,0.744,0.847,0.729,0.790,(1.6848)+(0.0025)Gln+(0.0019)Thr+(-0.0080)Ala+(-0.0220)Arg+(-0.0040)Leu;0.627,0.690,0.734,0.802,0.693,0.788,0.602,0.721,(2.5785)+(0.0020)Gln+(0.0047)Thr+(-0.0380)Tyr+(-0.0079)Val+(-0.0103)Lys;0.627,0.681,0.694,0.710,0.639,0.727,0.741,0.704,(0.4099)+(-0.0030)Gly+(-0.0342)Val+(0.0224)Orn+(0.0268)Leu+(0.0233)Phe;0.627,0.670,0.692,0.702,0.683,0.742,0.646,0.693,(2.2625)+(0.0003)Gly+(-0.0654)Cit+

(0.0040)Pro+(-0.0267)Val+(0.0268)Leu;0.627,0.676,0.650,0.628,0.672,0.697,0.627,0.656,(-0.1800)+(0.0030)Gly+(0.0008)Gln+(-0.0113)Thr+(-0.0923)Cit+(0.0261)Ile;0.627,0.682,0.756,0.785,0.759,0.805,0.639,0.747,(2.4085)+(0.0038)Gln+(-0.0667)Cit+(-0.0082)Arg+(-0.0076)Val+(-0.0105)Lys;0.627,0.689,0.606,0.560,0.572,0.673,0.752,0.639,(-3.5291)+(0.0440)S

er+(-0.0065)Gly+(-0.0287)Thr+(0.0038)Orn+(0.0239)Ile;0.627,0.672,0.697,0.709,0.686,0.738,0.662,0.699,(2.4336)+(-0.0022)Thr+(-0.0637)Cit+(0.0042)Pro+(-0.0265)Val+(0.0267)Leu;0.627,0.669,0.704,0.715,0.695,0.754,0.655,0.705,(2.4514)+(0.0004)Gly+(-0.0010)Thr+(-0.0644)Cit+(-0.0259)Val+(0.0287)Leu;0.627,0.685,0.793,0.833,0.742,0.865,0.743,0.796,(3.2386)+(-0.0017)Gly+(0.0056)Thr+(-0.0064)Ala+(-0.0070)Val+(-0.0090)Lys;0.627,0.683,0.722,0.728,0.746,0.748,0.639,0.715,(1.9006)+(-0.0738)Cit+(-0.0036)Arg+(-0.0152)Lys+(-0.0102)Leu+(0.0510)Phe;0.627,0.678,0.675,0.745,0.652,0.704,0.516,0.654,(1.8049)+(0.0022)Gln+(0.0045)Thr+(-0.0258)Arg+(0.0051)Pro+(-0.0582)Tyr;0.627,0.687,0.714,0.716,0.737,0.746,0.639,0.710,(1.8069)+(-0.0773)Cit+(0.0020)Pro+(-0.0164)Lys+(-0.0108)Leu+(0.0493)Phe;0.627,0.686,0.757,0.822,0.678,0.823,0.702,0.756,(1.9490)+(0.0016)Gln+(0.0014)Thr+(-0.0071)Ala+(-0.0369)Tyr+(-0.0006)Leu;0.627,0.683,0.716,0.732,0.661,0.769,0.754,0.729,(1.4962)+(-0.0025)Gly+(-0.0074)Thr+(-0.0334)Val+(0.0281)Orn+(0.0316)Leu;0.627,0.678,0.709,0.722,0.726,0.760,0.602,0.702,(1.4197)+(0.0017)Gln+(-0.0214)Arg+(0.0002)Pro+(0.0235)Orn+(-0.0189)Lys;0.627,0.674,0.649,0.627,0.672,0.703,0.622,0.656,(0.1455)+(0.0031)Gly+(-0.0093)Thr+(-0.0911)Cit+(-0.0035)Pro+(0.0313)Ile;0.626,0.679,0.714,0.728,0.729,0.761,0.614,0.708,(1.4124)+(0.0018)Gln+(-0.0018)Thr+(-0.0208)Arg+(0.0242)Orn+(-0.0185)Lys;0.626,0.683,0.730,0.766,0.697,0.750,0.689,0.726,(1.4289)+(-0.0002)Gly+(-0.0233)Arg+(-0.0301)Val+(0.0255)Leu+(0.0403)Phe;0.626,0.677,0.695,0.721,0.728,0.717,0.545,0.678,(0.8356)+(0.0020)Gly+(-0.0709)Cit+(-0.0152)Arg+(-0.0189)Leu+(0.0470)Phe;0.626,0.682,0.763,0.778,0.700,0.829,0.806,0.778,(1.1643)+(-0.0013)Gly+(0.0006)Gln+(-0.0073)Thr+(-0.0098)Ala+(0.0201)Orn;0.626,0.680,0.699,0.699,0.725,0.756,0.607,0.697,(0.5566)+(0.0022)Gly+(0.0029)Gln+(-0.0894)Cit+(-0.0219)Lys+(0.0422)Phe;0.626,0.676,0.643,0.619,0.668,0.690,0.619,0.649,(-0.0667)+(0.0033)Gly+(-0.0107)T

hr+(-0.0918)Cit+(0.0258)Ile+(0.0038)Phe;0.626,0.681,0.697,0.712,0.638,0.751,0.737,0.710,(1.1887)+(-0.0034)Gly+(0.0022)Pro+(-0.0347)Val+(0.0232)Orn+(0.0308)Leu;0.626,0.680,0.643,0.628,0.684,0.702,0.554,0.642,(0.3449)+(0.0027)Gly+(-0.0805)Cit+(-0.0162)Arg+(-0.0038)Pro+(0.0308)Ile;0.626,0.686,0.765,0.798,0.761,0.777,0.678,0.753,(4.0193)+(-0.0865)Asn+(0.0014)Gly+(-0.0097)Arg+(-0.0035)Lys+(-0.0068)Leu;0.626,0.687,0.739,0.759,0.721,0.794,0.686,0.740,(2.5762)+(-0.0025)Gly+(-0.0018)Thr+(-0.0133)Val+(0.0325)Orn+(-0.0137)Lys;0.626,0.683,0.729,0.780,0.704,0.737,0.639,0.715,(0.8612)+(0.0012)Gln+(-0.0267)Arg+(0.0043)Pro+(-0.0194)Val+(0.0441)Phe;0.626,0.671,0.696,0.708,0.686,0.743,0.650,0.697,(2.0661)+(0.0006)Gln+(-0.0663)Cit+(0.0038)Pro+(-0.0265)Val+(0.0262)Leu;0.626,0.685,0.730,0.767,0.693,0.780,0.670,0.728,(2.0636)+(0.0012)Gln+(-0.0238)Arg+(0.0049)Pro+(-0.0308)Val+(0.0302)Leu;0.626,0.679,0.721,0.732,0.733,0.758,0.641,0.716,(1.5594)+(-0.0017)Gly+(0.0021)Gln+(-0.0210)Arg+(0.0239)Orn+(-0.0191)Lys;0.625,0.682,0.678,0.738,0.657,0.697,0.550,0.661,(2.9673)+(-0.0024)Gly+(0.0081)Thr+(-0.0229)Arg+(0.0054)Pro+(-0.0602)Tyr;0.625,0.686,0.751,0.784,0.759,0.767,0.634,0.736,(4.2389)+(-0.0985)Asn+(0.0122)Thr+(-0.0134)Arg+(-0.0055)Lys+(-0.0078)Leu;0.625,0.684,0.745,0.780,0.751,0.751,0.638,0.730,(4.0662)+(-0.1050)Asn+(0.0096)Thr+(-0.0159)Arg+(0.0042)Pro+(-0.0133)Leu;0.625,0.675,0.725,0.744,0.736,0.774,0.618,0.718,(3.5741)+(-0.0599)Cit+(-0.0065)Arg+(0.0057)Pro+(-0.0101)Val+(-0.0081)Lys;0.625,0.688,0.700,0.721,0.647,0.744,0.725,0.709,(0.2793)+(-0.0095)Thr+(-0.0324)Val+(0.0252)Orn+(0.0254)Leu+(0.0273)Phe;0.625,0.688,0.742,0.800,0.706,0.779,0.634,0.730,(3.8328)+(-0.0034)Gly+(0.0092)Thr+(-0.0404)Tyr+(-0.0083)Val+(-0.0088)Lys;0.625,0.682,0.744,0.765,0.711,0.795,0.723,0.748,(3.1910)+(-0.0007)Gly+(-0.0137)Arg+(-0.0292)Val+(-0.0094)Lys+(0.0380)Leu;0.625,0.672,0.714,0.736,0.708,0.728,0.661,0.708,(0.7325)+(0.0013)Gln+(-0.0041)Thr+(-0.0723)

Cit+(-0.0152)Val+(0.0458)Phe;0.625,0.683,0.619,0.632,0.573,0.740,0.594,0.635,(-0.9860)+(0.0164)Ser+(0.0021)Pro+(-0.0341)Val+(0.0135)Orn+(0.0314)Leu;0.625,0.668,0.712,0.740,0.719,0.758,0.593,0.703,(2.9888)+(0.0006)Gly+(-0.0570)Cit+(-0.0129)Arg+(0.0057)Pro+(-0.0129)Val;0.625,0.685,0.729,0.756,0.712,0.796,0.646,0.727,(2.0540)+(0.0004)Gln+(-0.0036)Thr+(-0.0129)Val+(0.0311)Orn+(-0.0139)Lys;0.625,0.683,0.681,0.673,0.720,0.745,0.577,0.679,(1.3296)+(0.0032)Gly+(-0.0854)Cit+(0.0010)Pro+(-0.0202)Lys+(0.0441)Phe;0.625,0.671,0.710,0.728,0.708,0.763,0.630,0.707,(2.8760)+(0.0037)Thr+(-0.0518)Cit+(-0.0138)Arg+(-0.0269)Val+(0.0302)Leu;0.625,0.681,0.692,0.749,0.657,0.733,0.588,0.682,(2.1730)+(0.0019)Gln+(0.0030)Thr+(0.0051)Pro+(-0.0506)Tyr+(-0.0149)Lys;0.625,0.685,0.749,0.789,0.756,0.759,0.621,0.731,(4.0010)+(-0.1062)Asn+(0.0009)Gly+(0.0107)Thr+(-0.0154)Arg+(-0.0104)Leu;0.625,0.683,0.789,0.840,0.747,0.851,0.700,0.785,(3.3758)+(-0.0014)Gly+(0.0074)Thr+(-0.0063)Ala+(-0.0192)Arg+(-0.0092)Val;0.625,0.681,0.685,0.679,0.723,0.747,0.576,0.681,(1.3727)+(0.0032)Gly+(-0.0837)Cit+(-0.0015)Arg+(-0.0195)Lys+(0.0451)Phe;0.625,0.677,0.724,0.733,0.745,0.785,0.616,0.720,(1.8392)+(0.0008)Gly+(0.0033)Gln+(-0.0830)Cit+(0.0019)Pro+(-0.0178)Lys;0.625,0.688,0.542,0.482,0.536,0.661,0.629,0.577,(-2.8088)+(0.0403)Ser+(-0.0041)Gln+(-0.0267)Thr+(0.0058)Orn+(0.0296)Ile;0.625,0.684,0.715,0.775,0.689,0.729,0.598,0.698,(3.5057)+(-0.0018)Gly+(-0.0182)Arg+(0.0076)Pro+(-0.0493)Tyr+(-0.0101)Leu;0.625,0.668,0.683,0.694,0.681,0.718,0.633,0.681,(0.9512)+(0.0011)Gly+(-0.0698)Cit+(-0.0253)Val+(0.0199)Leu+(0.0392)Phe;0.625,0.672,0.695,0.716,0.697,0.721,0.619,0.688,(0.8836)+(0.0017)Gly+(-0.0036)Thr+(-0.0727)Cit+(-0.0152)Val+(0.0494)Phe;0.625,0.686,0.740,0.763,0.717,0.796,0.688,0.741,(2.3238)+(-0.0030)Gly+(0.0008)Gln+(-0.0134)Val+(0.0310)Orn+(-0.0148)Lys;0.625,0.681,0.648,0.630,0.685,0.701,0.582,0.649,(0.3952)+(0.0032)Gly+(-0.0063)Thr+(-0.0805)Cit+(-0.0133)Ar

g+(0.0275)Ile;0.625,0.677,0.733,0.743,0.750,0.785,0.633,0.728,(1.9646)+(0.0034)Gln+(-0.0810)Cit+(0.0023)Pro+(-0.0167)Lys+(-0.0031)Leu;0.625,0.677,0.667,0.719,0.620,0.672,0.627,0.659,(1.8884)+(-0.0033)Gly+(-0.0029)Thr+(0.0039)Pro+(-0.0661)Tyr+(0.0198)Orn;0.624,0.668,0.684,0.691,0.678,0.715,0.652,0.684,(1.1495)+(-0.0679)Cit+(0.0027)Pro+(-0.0259)Val+(0.0194)Leu+(0.0356)Phe;0.624,0.669,0.698,0.709,0.688,0.722,0.670,0.697,(1.2789)+(-0.0022)Thr+(-0.0666)Cit+(-0.0250)Val+(0.0200)Leu+(0.0390)Phe;0.624,0.669,0.708,0.722,0.696,0.754,0.663,0.709,(2.0624)+(-0.0001)Gly+(0.0010)Gln+(-0.0665)Cit+(-0.0258)Val+(0.0276)Leu;0.624,0.684,0.694,0.758,0.659,0.729,0.572,0.679,(1.7911)+(0.0004)Gln+(-0.0051)Thr+(-0.0514)Tyr+(0.0250)Orn+(-0.0110)Leu;0.624,0.682,0.704,0.761,0.668,0.734,0.604,0.692,(2.2155)+(0.0021)Gln+(0.0059)Pro+(-0.0484)Tyr+(-0.0126)Lys+(-0.0043)Leu;0.624,0.678,0.702,0.705,0.738,0.771,0.570,0.696,(2.7948)+(0.0017)Gly+(0.0027)Thr+(-0.0790)Cit+(0.0024)Pro+(-0.0163)Lys;0.624,0.682,0.746,0.770,0.751,0.803,0.632,0.739,(2.4199)+(0.0032)Gln+(0.0025)Thr+(-0.0741)Cit+(-0.0071)Val+(-0.0133)Lys;0.624,0.672,0.705,0.710,0.726,0.753,0.616,0.701,(2.1331)+(-0.0010)Gly+(-0.0191)Arg+(0.0004)Pro+(0.0257)Orn+(-0.0182)Lys;0.624,0.681,0.710,0.717,0.743,0.772,0.580,0.703,(2.8864)+(0.0018)Gly+(-0.0771)Cit+(0.0032)Pro+(-0.0143)Lys+(-0.0030)Leu;0.624,0.676,0.720,0.746,0.736,0.777,0.577,0.709,(1.7215)+(0.0018)Gln+(-0.0228)Arg+(0.0264)Orn+(-0.0147)Lys+(-0.0101)Leu;0.624,0.674,0.747,0.782,0.745,0.784,0.634,0.736,(2.1719)+(-0.0006)Gly+(0.0031)Gln+(-0.0596)Cit+(-0.0151)Arg+(-0.0113)Val;0.624,0.684,0.718,0.752,0.688,0.774,0.650,0.716,(2.4106)+(0.0030)Thr+(-0.0238)Arg+(0.0050)Pro+(-0.0318)Val+(0.0318)Leu;0.624,0.687,0.703,0.766,0.697,0.753,0.516,0.683,(3.3631)+(0.0109)Thr+(-0.0183)Arg+(-0.0435)Tyr+(-0.0095)Lys+(-0.0016)Leu;0.624,0.680,0.749,0.801,0.722,0.748,0.667,0.735,(0.8389)+(-0.0008)Gly+(0.0017)Gln+(-0.0260)Arg+(-0.0181)Val+(0.0464)Phe

;0.624,0.679,0.719,0.735,0.731,0.782,0.610,0.714,(3.3977)+(0.0034)Thr+(-0.0675)Cit+(0.0050)Pro+(-0.0095)Val+(-0.0113)Lys;0.624,0.678,0.706,0.712,0.739,0.768,0.575,0.698,(2.8418)+(0.0020)Gly+(-0.0758)Cit+(-0.0026)Arg+(0.0028)Pro+(-0.0148)Lys;0.624,0.673,0.705,0.728,0.733,0.709,0.586,0.689,(1.1904)+(-0.0674)Cit+(-0.0153)Arg+(0.0024)Pro+(-0.0204)Leu+(0.0435)Phe;0.624,0.686,0.719,0.798,0.700,0.760,0.522,0.695,(2.1002)+(0.0028)Gln+(0.0058)Thr+(-0.0254)Arg+(-0.0474)Tyr+(-0.0074)Leu;0.624,0.673,0.743,0.779,0.743,0.785,0.616,0.731,(2.1233)+(0.0029)Gln+(0.0005)Thr+(-0.0603)Cit+(-0.0153)Arg+(-0.0112)Val;0.623,0.684,0.702,0.725,0.689,0.776,0.618,0.702,(2.0911)+(-0.0002)Gln+(0.0038)Pro+(-0.0144)Val+(0.0285)Orn+(-0.0149)Lys;0.623,0.683,0.787,0.826,0.746,0.846,0.725,0.786,(2.6576)+(-0.0009)Gly+(0.0045)Thr+(-0.0079)Ala+(-0.0194)Arg+(-0.0035)Leu;0.623,0.675,0.731,0.742,0.750,0.780,0.626,0.725,(1.8884)+(0.0038)Gln+(-0.0774)Cit+(-0.0058)Arg+(0.0019)Pro+(-0.0166)Lys;0.623,0.676,0.735,0.749,0.752,0.791,0.623,0.729,(1.9377)+(0.0006)Gly+(0.0035)Gln+(-0.0818)Cit+(-0.0167)Lys+(-0.0012)Leu;0.623,0.668,0.698,0.716,0.694,0.713,0.647,0.693,(1.2041)+(-0.0037)Thr+(-0.0694)Cit+(0.0036)Pro+(-0.0163)Val+(0.0443)Phe;0.623,0.678,0.718,0.719,0.737,0.751,0.650,0.714,(0.7804)+(0.0036)Gln+(-0.0823)Cit+(-0.0047)Arg+(-0.0207)Lys+(0.0390)Phe;0.623,0.680,0.766,0.787,0.709,0.831,0.780,0.777,(1.7172)+(-0.0014)Gly+(-0.0062)Thr+(-0.0088)Ala+(0.0238)Orn+(-0.0075)Leu;0.623,0.678,0.721,0.767,0.698,0.726,0.640,0.708,(1.3059)+(-0.0002)Gly+(-0.0249)Arg+(0.0046)Pro+(-0.0193)Val+(0.0453)Phe;0.623,0.676,0.729,0.735,0.749,0.783,0.630,0.724,(1.9035)+(0.0034)Gln+(0.0009)Thr+(-0.0822)Cit+(0.0017)Pro+(-0.0180)Lys;0.623,0.676,0.729,0.741,0.749,0.788,0.615,0.723,(1.9164)+(0.0006)Gly+(0.0034)Gln+(0.0014)Thr+(-0.0827)Cit+(-0.0177)Lys;0.623,0.675,0.743,0.762,0.757,0.789,0.630,0.735,(1.9965)+(0.0039)Gln+(-0.0760)Cit+(-0.0062)Arg+(-0.0151)Lys+(-0.0023)Leu;0.623,0.68

3,0.711,0.783,0.656,0.703,0.645,0.697,(2.2129)+(-0.0039)Gly+(0.0018)Gln+(0.0066)Pro+(-0.0589)Tyr+(-0.0116)Leu;0.623,0.673,0.701,0.710,0.723,0.751,0.598,0.695,(1.9836)+(-0.0008)Thr+(-0.0193)Arg+(0.0005)Pro+(0.0255)Orn+(-0.0180)Lys;0.623,
0.669,0.694,0.705,0.687,0.720,0.658,0.693,(1.0135)+(0.0004)Gln+(-0.0686)Cit+(-0.0253)Val+(0.0198)Leu+(0.0376)Phe;0.623,0.668,0.689,0.709,0.707,0.706,0.587,0.678,(0.5311)+(0.0023)Gly+(-0.0064)Thr+(-0.0824)Cit+(-0.0181)Leu+(0.0452)Phe;0.623,0.681,0.738,0.792,0.715,0.747,0.634,0.722,(0.7517)+(0.0014)Gln+(0.0020)Thr+(-0.0271)Arg+(-0.0184)Val+(0.0474)Phe;0.622,0.677,0.709,0.775,0.671,0.703,0.618,0.692,(2.0324)+(-0.0029)Gly+(0.0032)Gln+(-0.0229)Arg+(0.0052)Pro+(-0.0581)Tyr;0.622,0.666,0.702,0.720,0.723,0.738,0.584,0.691,(1.9701)+(0.0014)Gly+(-0.0056)Thr+(-0.0782)Cit+(0.0035)Pro+(-0.0120)Leu;0.622,0.678,0.729,0.748,0.746,0.796,0.595,0.721,(3.4452)+(0.0005)Gly+(0.0049)Thr+(-0.0692)Cit+(-0.0074)Val+(-0.0115)Lys;0.622,0.679,0.732,0.755,0.751,0.792,0.591,0.722,(3.6368)+(0.0067)Thr+(-0.0621)Cit+(-0.0075)Arg+(-0.0081)Val+(-0.0100)Lys;0.622,0.671,0.678,0.657,0.689,0.704,0.690,0.685,(0.0493)+(0.0015)Gln+(-0.0092)Thr+(-0.0890)Cit+(-0.0039)Pro+(0.0285)Ile;0.622,0.671,0.707,0.712,0.727,0.753,0.617,0.702,(2.1532)+(-0.0010)Gly+(-0.0001)Thr+(-0.0190)Arg+(0.0260)Orn+(-0.0181)Lys;0.622,0.677,0.715,0.713,0.734,
0.752,0.655,0.713,(0.7824)+(0.0033)Gln+(-0.0860)Cit+(0.0001)Pro+(-0.0217)Lys+(0.0391)Phe;0.622,0.675,0.735,0.751,0.754,0.785,0.619,0.727,(1.8979)+(0.0006)Gly+(0.0038)Gln+(-0.0779)Cit+(-0.0055)Arg+(-0.0161)Lys;0.622,0.677,0.662,0.717,0.612,0.665,0.617,0.653,(1.7241)+(-0.0039)Gly+(0.0004)Gln+(0.0037)Pro+(-0.0687)Tyr+(0.0179)Orn;0.622,0.683,0.711,0.766,0.701,0.740,0.566,0.693,(3.7553)+(-0.0026)Gly+(0.0128)Thr+(-0.0175)Arg+(-0.0471)Tyr+(-0.0101)Lys;0.622,0.676,0.712,0.709,0.733,0.751,0.646,0.710,(0.7973)+(0.0032)Gln+(0.0017)Thr+(-0.0866)Cit+(-0.0222)

Lys+(0.0392)Phe;0.622,0.674,0.718,0.740,0.723,0.719,0.651,0.708,(0.24
85)+(0.0020)Gln+(-0.0072)Thr+(-0.0823)Cit+(-0.0186)Leu+(0.0410)Phe;0.
622,0.668,0.720,0.739,0.736,0.768,0.603,0.712,(2.5576)+(-0.0015)Gly+(
-0.0204)Arg+(0.0293)Orn+(-0.0138)Lys+(-0.0104)Leu;0.622,0.681,0.711,0
.713,0.739,0.749,0.618,0.705,(1.7730)+(0.0040)Thr+(-0.0794)Cit+(-0.01
79)Lys+(-0.0095)Leu+(0.0500)Phe;0.622,0.677,0.736,0.748,0.753,0.791,0
.629,0.730,(1.9906)+(0.0035)Gln+(0.0015)Thr+(-0.0816)Cit+(-0.0172)Lys
+(-0.0014)Leu;0.622,0.668,0.713,0.740,0.722,0.756,0.595,0.703,(3.0495
)+(0.0015)Thr+(-0.0559)Cit+(-0.0136)Arg+(0.0056)Pro+(-0.0132)Val;0.62
2,0.675,0.719,0.730,0.749,0.778,0.582,0.710,(3.0577)+(0.0017)Gly+(-0.
0742)Cit+(-0.0022)Arg+(-0.0134)Lys+(-0.0010)Leu;0.622,0.670,0.722,0.7
50,0.742,0.751,0.584,0.707,(1.5129)+(0.0027)Gln+(-0.0691)Cit+(-0.0167
)Arg+(0.0030)Pro+(-0.0136)Leu;0.622,0.682,0.713,0.727,0.714,0.731,0.6
61,0.708,(0.7043)+(-0.0057)Thr+(0.0240)Orn+(-0.0191)Lys+(-0.0143)Leu+
(0.0362)Phe;0.621,0.691,0.616,0.626,0.643,0.716,0.463,0.612,(-2.4904)
+(0.0270)Ser+(-0.0373)Arg+(-0.0005)Pro+(0.0036)Orn+(0.0172)Phe;0.621,
0.676,0.630,0.609,0.679,0.690,0.543,0.630,(0.0935)+(0.0028)Gly+(-0.08
07)Cit+(-0.0175)Arg+(0.0247)Ile+(0.0037)Phe;0.621,0.683,0.693,0.713,0
.639,0.760,0.708,0.705,(1.0944)+(-0.0097)Thr+(0.0030)Pro+(-0.0329)Val
+(0.0258)Orn+(0.0297)Leu;0.621,0.682,0.763,0.789,0.704,0.832,0.771,0.
774,(1.3408)+(0.0004)Gln+(-0.0076)Thr+(-0.0088)Ala+(0.0232)Orn+(-0.00
72)Leu;0.621,0.680,0.760,0.822,0.731,0.787,0.639,0.745,(4.0659)+(-0.0
017)Gly+(-0.0137)Arg+(-0.0316)Tyr+(-0.0085)Val+(-0.0025)Lys;0.621,0.6
78,0.726,0.757,0.690,0.765,0.687,0.725,(2.6503)+(-0.0009)Gly+(-0.0216
)Arg+(0.0053)Pro+(-0.0312)Val+(0.0313)Leu;0.621,0.676,0.664,0.687,0.6
14,0.712,0.670,0.671,(-0.1792)+(0.0012)Pro+(-0.0339)Val+(0.0192)Orn+(
0.0257)Leu+(0.0244)Phe;0.621,0.679,0.734,0.792,0.694,0.752,0.650,0.72
2,(2.5682)+(-0.0039)Gly+(0.0029)Gln+(0.0067)Thr+(-0.0496)Tyr+(-0.0148

)Lys;0.621,0.678,0.739,0.764,0.752,0.791,0.609,0.729,(3.5694)+(0.0010)Gly+(-0.0636)Cit+(-0.0046)Arg+(-0.0074)Val+(-0.0084)Lys;0.621,0.672,0.670,0.646,0.686,0.689,0.687,0.677,(0.0489)+(0.0014)Gln+(-0.0103)Thr+(-0.0886)Cit+(0.0237)Ile+(-0.0005)Phe;0.621,0.691,0.694,0.696,0.656,0.751,0.731,0.708,(-1.2333)+(0.0387)Ser+(-0.0078)Gly+(-0.0218)Thr+(0.0176)Orn+(-0.0140)Leu;0.621,0.680,0.674,0.655,0.703,0.707,0.642,0.677,(0.9219)+(-0.0036)Thr+(-0.0759)Cit+(-0.0130)Arg+(-0.0034)Pro+(0.0292)Ile;0.621,0.683,0.687,0.743,0.659,0.725,0.568,0.674,(2.8713)+(0.0041)Thr+(0.0060)Pro+(-0.0492)Tyr+(-0.0124)Lys+(-0.0038)Leu;0.621,0.682,0.678,0.670,0.719,0.745,0.566,0.675,(1.3328)+(0.0029)Gly+(0.0030)Thr+(-0.0863)Cit+(-0.0211)Lys+(0.0446)Phe;0.621,0.676,0.733,0.747,0.753,0.785,0.616,0.725,(1.9586)+(0.0037)Gln+(0.0026)Thr+(-0.0774)Cit+(-0.0065)Arg+(-0.0168)Lys;0.621,0.664,0.720,0.745,0.713,0.755,0.643,0.714,(1.9763)+(0.0018)Gln+(-0.0047)Thr+(-0.0707)Cit+(0.0049)Pro+(-0.0128)Val;0.620,0.681,0.717,0.765,0.698,0.727,0.623,0.703,(1.2191)+(0.0018)Thr+(-0.0261)Arg+(0.0044)Pro+(-0.0195)Val+(0.0455)Phe;0.620,0.676,0.704,0.696,0.735,0.736,0.638,0.701,(1.8885)+(-0.0775)Cit+(-0.0015)Arg+(0.0008)Pro+(-0.0190)Lys+(0.0404)Phe;0.620,0.674,0.718,0.746,0.688,0.728,0.699,0.715,(1.2737)+(-0.0010)Gly+(0.0037)Pro+(-0.0157)Val+(-0.0141)Lys+(0.0451)Phe;0.620,0.691,0.666,0.683,0.630,0.775,0.617,0.676,(-0.8291)+(0.0264)Ser+(-0.0209)Thr+(0.0056)Pro+(-0.0157)Val+(0.0208)Orn;0.620,0.682,0.598,0.612,0.591,0.748,0.471,0.605,(0.4573)+(0.0220)Ser+(-0.0044)Gln+(0.0045)Pro+(-0.0176)Val+(0.0182)Orn;0.620,0.675,0.670,0.658,0.699,0.709,0.614,0.670,(0.1289)+(0.0018)Gln+(-0.0784)Cit+(-0.0178)Arg+(-0.0042)Pro+(0.0282)Ile;0.620,0.670,0.639,0.610,0.701,0.706,0.541,0.639,(-0.1780)+(0.0008)Gly+(-0.1137)Cit+(-0.0038)Pro+(0.0338)Orn+(0.0082)Phe;0.620,0.666,0.734,0.763,0.727,0.769,0.647,0.727,(1.9720)+(-0.0002)Gly+(0.0022)Gln+(-0.0034)Thr+(-0.0716)Cit+(-0.0110)Val;0.620,

0.678,0.663,0.643,0.699,0.699,0.613,0.664,(0.6812)+(-0.0766)Cit+(-0.0153)Arg+(-0.0039)Pro+(0.0280)Ile+(0.0034)Phe;0.620,0.674,0.647,0.614,0.710,0.708,0.558,0.647,(0.3037)+(-0.0008)Gln+(-0.1116)Cit+(-0.0036)Pro+(0.0354)Orn+(0.0079)Phe;0.620,0.669,0.729,0.751,0.738,0.760,0.628,0.719,(1.3170)+(0.0005)Gly+(0.0023)Gln+(-0.0064)Thr+(-0.0810)Cit+(-0.0108)Leu;0.620,0.670,0.693,0.714,0.697,0.716,0.613,0.685,(0.6243)+(0.0010)Gly+(0.0006)Gln+(-0.0745)Cit+(-0.0157)Val+(0.0465)Phe;0.620,0.683,0.721,0.750,0.733,0.723,0.620,0.706,(3.1038)+(-0.1129)Asn+(0.0017)Gly+(0.0080)Thr+(-0.0167)Arg+(0.0019)Pro;0.620,0.681,0.741,0.783,0.704,0.799,0.665,0.738,(2.0247)+(0.0013)Gln+(0.0034)Thr+(-0.0245)Arg+(-0.0305)Val+(0.0324)Leu;0.620,0.677,0.712,0.719,0.747,0.777,0.572,0.704,(2.9650)+(0.0014)Gly+(0.0038)Thr+(-0.0779)Cit+(-0.0156)Lys+(-0.0007)Leu;0.620,0.667,0.680,0.697,0.684,0.711,0.602,0.674,(0.7858)+(0.0012)Gly+(-0.0736)Cit+(0.0031)Pro+(-0.0166)Val+(0.0445)Phe;0.619,0.666,0.704,0.727,0.736,0.739,0.548,0.688,(2.3074)+(0.0011)Gly+(-0.0678)Cit+(-0.0135)Arg+(0.0036)Pro+(-0.0124)Leu;0.619,0.678,0.803,0.852,0.727,0.863,0.788,0.808,(2.1069)+(-0.0022)Gly+(0.0016)Gln+(-0.0003)Thr+(-0.0071)Ala+(-0.0093)Val;0.619,0.684,0.700,0.766,0.655,0.699,0.622,0.686,(2.7691)+(-0.0032)Gly+(0.0011)Thr+(0.0068)Pro+(-0.0572)Tyr+(-0.0108)Leu;0.619,0.667,0.692,0.709,0.692,0.714,0.630,0.686,(0.8142)+(0.0006)Gln+(-0.0725)Cit+(0.0029)Pro+(-0.0167)Val+(0.0427)Phe;0.619,0.675,0.679,0.663,0.704,0.701,0.650,0.680,(0.1442)+(0.0022)Gln+(-0.0065)Thr+(-0.0777)Cit+(-0.0153)Arg+(0.0240)Ile;0.619,0.668,0.731,0.763,0.750,0.762,0.586,0.715,(1.5288)+(-0.0001)Gly+(0.0029)Gln+(-0.0694)Cit+(-0.0161)Arg+(-0.0116)Leu;0.619,0.671,0.712,0.734,0.731,0.769,0.576,0.702,(2.3284)+(-0.0008)Thr+(-0.0207)Arg+(0.0288)Orn+(-0.0138)Lys+(-0.0099)Leu;0.619,0.675,0.713,0.737,0.738,0.718,0.596,0.697,(1.2348)+(-0.0009)Thr+(-0.0677)Cit+(-0.0141)Arg+(-0.0189)Leu+(0.0453)Phe;0.619,0.676,0.718,0

.788,0.690,0.725,0.587,0.698,(2.1842)+(-0.0036)Gly+(0.0032)Gln+(0.007
6)Thr+(-0.0256)Arg+(-0.0569)Tyr;0.619,0.668,0.706,0.726,0.726,0.767,0
.563,0.696,(2.2699)+(-0.0215)Arg+(0.0022)Pro+(0.0274)Orn+(-0.0139)Lys
+(-0.0114)Leu;0.619,0.678,0.712,0.776,0.677,0.755,0.585,0.698,(2.1711
)+(0.0021)Gln+(0.0042)Thr+(-0.0449)Tyr+(-0.0144)Lys+(-0.0004)Leu;0.61
9,0.666,0.727,0.758,0.739,0.768,0.588,0.713,(3.1171)+(0.0002)Gly+(0.0
030)Thr+(-0.0576)Cit+(-0.0128)Arg+(-0.0110)Val;0.619,0.677,0.666,0.64
3,0.699,0.691,0.639,0.668,(0.7728)+(-0.0047)Thr+(-0.0757)Cit+(-0.0135
)Arg+(0.0242)Ile+(0.0027)Phe;0.619,0.671,0.647,0.704,0.602,0.672,0.57
1,0.637,(1.3722)+(-0.0001)Gln+(-0.0057)Thr+(0.0040)Pro+(-0.0623)Tyr+(
0.0186)Orn;0.619,0.674,0.721,0.741,0.723,0.737,0.654,0.714,(0.6279)+(
0.0023)Gln+(-0.0202)Arg+(0.0003)Pro+(-0.0186)Lys+(0.0273)Phe;0.619,0.
676,0.730,0.779,0.715,0.737,0.629,0.715,(1.2614)+(-0.0005)Gly+(0.0034
)Thr+(-0.0256)Arg+(-0.0184)Val+(0.0488)Phe;0.619,0.676,0.714,0.747,0.
682,0.736,0.681,0.711,(0.9587)+(0.0004)Gln+(0.0036)Pro+(-0.0157)Val+(
-0.0147)Lys+(0.0452)Phe;0.619,0.675,0.722,0.728,0.749,0.771,0.612,0.7
15,(3.2085)+(-0.0705)Cit+(-0.0036)Arg+(0.0034)Pro+(-0.0128)Lys+(-0.00
43)Leu;0.618,0.672,0.668,0.642,0.688,0.695,0.675,0.675,(0.5168)+(-0.0
076)Thr+(-0.0864)Cit+(-0.0037)Pro+(0.0285)Ile+(0.0022)Phe;0.618,0.675
,0.639,0.623,0.683,0.696,0.551,0.638,(-0.0809)+(0.0023)Gly+(0.0010)Gl
n+(-0.0809)Cit+(-0.0186)Arg+(0.0247)Ile;0.618,0.669,0.732,0.771,0.729
,0.740,0.629,0.717,(0.6243)+(0.0024)Gln+(-0.0221)Arg+(-0.0135)Lys+(-0
.0146)Leu+(0.0420)Phe;0.618,0.672,0.619,0.582,0.690,0.694,0.517,0.621
,(0.1338)+(0.0014)Gly+(-0.0014)Gln+(-0.1120)Cit+(0.0330)Orn+(0.0053)P
he;0.618,0.673,0.719,0.739,0.722,0.738,0.646,0.711,(0.6342)+(0.0022)G
ln+(0.0013)Thr+(-0.0206)Arg+(-0.0189)Lys+(0.0276)Phe;0.618,0.677,0.71
7,0.721,0.747,0.772,0.604,0.711,(3.0788)+(0.0033)Thr+(-0.0755)Cit+(0.
0027)Pro+(-0.0152)Lys+(-0.0032)Leu;0.618,0.674,0.761,0.802,0.716,0.79

5,0.720,0.758,(2.1506)+(-0.0017)Gly+(0.0020)Gln+(-0.0227)Arg+(-0.0297)Val+(0.0313)Leu;0.618,0.672,0.740,0.766,0.737,0.759,0.665,0.732,(1.4878)+(-0.0014)Gly+(0.0029)Gln+(-0.0195)Arg+(0.0014)Pro+(-0.0161)Lys;0.618,0.675,0.711,0.713,0.745,0.767,0.591,0.704,(3.0575)+(0.0044)Thr+(-0.0733)Cit+(-0.0041)Arg+(0.0022)Pro+(-0.0157)Lys;0.618,0.662,0.709,0.733,0.706,0.752,0.618,0.702,(1.9841)+(-0.0002)Gly+(0.0013)Gln+(-0.0714)Cit+(0.0045)Pro+(-0.0133)Val;0.617,0.668,0.726,0.742,0.734,0.752,0.647,0.719,(1.3414)+(0.0023)Gln+(-0.0073)Thr+(-0.0801)Cit+(0.0031)Pro+(-0.0130)Leu;0.617,0.677,0.761,0.785,0.701,0.835,0.767,0.772,(1.4648)+(-0.0021)Gly+(0.0002)Gln+(-0.0093)Ala+(0.0200)Orn+(-0.0081)Leu;0.617,0.661,0.705,0.728,0.706,0.749,0.609,0.698,(2.5635)+(0.0007)Gly+(-0.0031)Thr+(-0.0683)Cit+(0.0053)Pro+(-0.0127)Val;0.617,0.671,0.728,0.746,0.728,0.738,0.670,0.721,(0.7024)+(-0.0007)Gly+(0.0025)Gln+(-0.0200)Arg+(-0.0186)Lys+(0.0270)Phe;0.617,0.676,0.681,0.684,0.645,0.734,0.707,0.692,(-0.6735)+(0.0405)Ser+(-0.0075)Gly+(-0.0012)Gln+(-0.0177)Thr+(-0.0108)Leu;0.617,0.677,0.752,0.811,0.705,0.761,0.687,0.741,(2.4468)+(-0.0034)Gly+(0.0033)Gln+(-0.0450)Tyr+(-0.0126)Lys+(-0.0016)Leu;0.617,0.676,0.712,0.743,0.681,0.732,0.679,0.709,(1.0962)+(-0.0000)Thr+(0.0037)Pro+(-0.0157)Val+(-0.0144)Lys+(0.0457)Phe;0.617,0.677,0.613,0.585,0.591,0.662,0.699,0.634,(-2.2288)+(0.0445)Ser+(-0.0064)Gly+(-0.0025)Gln+(-0.0227)Thr+(0.0176)Phe;0.617,0.672,0.639,0.655,0.612,0.748,0.577,0.648,(0.0935)+(0.0304)Ser+(-0.0024)Gln+(-0.0163)Thr+(0.0072)Pro+(-0.0137)Val;0.617,0.670,0.742,0.769,0.740,0.762,0.661,0.733,(1.5446)+(-0.0015)Gly+(0.0029)Gln+(0.0019)Thr+(-0.0200)Arg+(-0.0162)Lys;0.617,0.670,0.716,0.741,0.746,0.755,0.558,0.700,(2.4275)+(0.0010)Gly+(-0.0004)Thr+(-0.0680)Cit+(-0.0120)Arg+(-0.0099)Leu;0.616,0.668,0.659,0.641,0.696,0.691,0.604,0.658,(0.1019)+(0.0016)Gln+(-0.0779)Cit+(-0.0185)Arg+(0.0228)Ile+(0.0001)Phe;0.

616,0.674,0.739,0.772,0.704,0.749,0.720,0.736,(1.0036)+(-0.0013)Gly+(0.0010)Gln+(-0.0146)Val+(-0.0145)Lys+(0.0467)Phe;0.616,0.670,0.701,0.716,0.716,0.700,0.629,0.691,(0.9073)+(-0.0059)Thr+(-0.0786)Cit+(0.0023)Pro+(-0.0195)Leu+(0.0412)Phe;0.616,0.677,0.739,0.794,0.719,0.753,0.626,0.723,(3.6482)+(-0.0014)Gly+(-0.0129)Arg+(-0.0381)Tyr+(-0.0067)Lys+(-0.0023)Leu;0.616,0.663,0.688,0.706,0.707,0.698,0.593,0.676,(0.2423)+(0.0010)Gln+(-0.0845)Cit+(0.0013)Pro+(-0.0202)Leu+(0.0384)Phe;0.616,0.672,0.730,0.759,0.729,0.762,0.634,0.721,(1.3835)+(0.0025)Gln+(0.0008)Thr+(-0.0201)Arg+(0.0014)Pro+(-0.0162)Lys;0.616,0.668,0.718,0.753,0.734,0.727,0.583,0.699,(0.6727)+(-0.0054)Thr+(-0.0281)Arg+(0.0238)Orn+(-0.0245)Leu+(0.0378)Phe;0.616,0.675,0.697,0.688,0.733,0.745,0.612,0.694,(1.8406)+(0.0050)Thr+(-0.0787)Cit+(-0.0033)Arg+(-0.0203)Lys+(0.0408)Phe;0.615,0.680,0.574,0.533,0.544,0.676,0.671,0.606,(-3.8734)+(0.0359)Ser+(-0.0285)Thr+(-0.0022)Pro+(0.0303)Ile+(0.0000)Phe;0.615,0.675,0.710,0.718,0.747,0.776,0.565,0.701,(2.9869)+(0.0014)Gly+(0.0046)Thr+(-0.0752)Cit+(-0.0039)Arg+(-0.0153)Lys;0.615,0.673,0.744,0.792,0.718,0.799,0.633,0.735,(2.2095)+(0.0024)Gln+(-0.0209)Arg+(0.0056)Pro+(-0.0133)Val+(-0.0075)Lys;0.615,0.662,0.681,0.702,0.705,0.698,0.567,0.668,(0.1070)+(0.0011)Gly+(0.0008)Gln+(-0.0861)Cit+(-0.0194)Leu+(0.0406)Phe;0.615,0.673,0.720,0.729,0.752,0.776,0.587,0.711,(3.2194)+(0.0053)Thr+(-0.0721)Cit+(-0.0045)Arg+(-0.0145)Lys+(-0.0018)Leu;0.615,0.671,0.738,0.768,0.754,0.766,0.605,0.723,(1.5222)+(0.0031)Gln+(-0.0025)Thr+(-0.0697)Cit+(-0.0148)Arg+(-0.0112)Leu;0.615,0.678,0.739,0.773,0.706,0.789,0.683,0.738,(2.6814)+(-0.0014)Gly+(0.0052)Thr+(-0.0228)Arg+(-0.0312)Val+(0.0337)Leu;0.615,0.675,0.696,0.685,0.730,0.741,0.621,0.695,(1.7959)+(0.0042)Thr+(-0.0812)Cit+(0.0003)Pro+(-0.0208)Lys+(0.0406)Phe;0.615,0.675,0.728,0.763,0.696,0.751,0.688,0.724,(0.8753)+(0.0006)Gln+(0.0007)Thr+(-0.0147)Val+(-0.0148)Lys+(0.0480)Phe;0.615,0.664,0.6

71,0.689,0.699,0.692,0.554,0.659,(0.3258)+(0.0015)Gly+(-0.0851)Cit+(0.0015)Pro+(-0.0200)Leu+(0.0407)Phe;0.615,0.660,0.621,0.594,0.657,0.678,0.575,0.626,(-0.2166)+(0.0021)Gly+(-0.0001)Gln+(-0.0953)Cit+(-0.0048)Pro+(0.0292)Ile;0.614,0.663,0.608,0.576,0.649,0.666,0.563,0.614,(-0.2359)+(0.0022)Gly+(-0.0005)Gln+(-0.0955)Cit+(0.0232)Ile+(-0.0011)Phe;0.614,0.678,0.624,0.638,0.602,0.695,0.581,0.629,(-2.1096)+(0.0345)Ser+(-0.0028)Gln+(-0.0203)Thr+(-0.0178)Leu+(0.0436)Phe;0.614,0.682,0.575,0.532,0.546,0.678,0.673,0.607,(-3.9132)+(0.0358)Ser+(-0.0290)Thr+(-0.0023)Pro+(0.0030)Orn+(0.0296)Ile;0.614,0.680,0.699,0.729,0.665,0.720,0.678,0.698,(0.5647)+(-0.0014)Gln+(-0.0088)Thr+(-0.0202)Val+(0.0265)Orn+(0.0394)Phe;0.614,0.671,0.685,0.742,0.636,0.686,0.634,0.674,(1.7288)+(-0.0037)Gly+(0.0008)Gln+(-0.0027)Thr+(-0.0626)Tyr+(0.0207)Orn;0.614,0.664,0.707,0.721,0.717,0.723,0.640,0.700,(1.3116)+(0.0002)Gly+(-0.0177)Arg+(0.0008)Pro+(-0.0176)Lys+(0.0292)Phe;0.613,0.663,0.703,0.718,0.714,0.722,0.629,0.696,(1.3204)+(-0.0001)Gly+(0.0028)Thr+(-0.0187)Arg+(-0.0182)Lys+(0.0296)Phe;0.613,0.661,0.724,0.756,0.728,0.723,0.627,0.709,(1.3826)+(-0.0000)Gly+(-0.0193)Arg+(-0.0124)Lys+(-0.0145)Leu+(0.0445)Phe;0.613,0.667,0.692,0.697,0.711,0.716,0.620,0.686,(0.6306)+(0.0016)Gly+(0.0017)Gln+(-0.0089)Thr+(-0.0866)Cit+(0.0007)Pro;0.613,0.671,0.730,0.760,0.701,0.743,0.702,0.726,(1.2604)+(-0.0011)Gly+(0.0020)Thr+(-0.0148)Val+(-0.0144)Lys+(0.0482)Phe;0.613,0.665,0.717,0.749,0.721,0.723,0.618,0.703,(1.3501)+(-0.0200)Arg+(0.0027)Pro+(-0.0125)Lys+(-0.0161)Leu+(0.0430)Phe;0.613,0.678,0.718,0.750,0.675,0.723,0.720,0.717,(0.4003)+(-0.0018)Gly+(-0.0091)Thr+(-0.0202)Val+(0.0257)Orn+(0.0361)Phe;0.613,0.678,0.759,0.830,0.724,0.764,0.638,0.739,(2.3788)+(-0.0033)Gly+(0.0041)Gln+(-0.0220)Arg+(-0.0462)Tyr+(-0.0078)Leu;0.613,0.669,0.695,0.718,0.642,0.703,0.741,0.701,(0.9907)+(-0.0014)Gly+(-0.0011)Gln+(-0.0315)Val+(0.0266)Leu+(0.0306)Phe;0.612,0.671,0.683,0.752,0

.620,0.667,0.644,0.671,(1.7387)+(-0.0034)Gly+(0.0014)Gln+(-0.0008)Thr+(0.0047)Pro+(-0.0641)Tyr;0.612,0.681,0.718,0.786,0.707,0.741,0.547,0.695,(3.5194)+(-0.0028)Gly+(0.0101)Thr+(-0.0219)Arg+(-0.0492)Tyr+(-0.0068)Leu;0.612,0.660,0.620,0.594,0.657,0.676,0.575,0.625,(-0.2987)+(0.0021)Gly+(-0.0956)Cit+(-0.0048)Pro+(0.0289)Ile+(0.0011)Phe;0.612,0.663,0.699,0.723,0.639,0.734,0.737,0.708,(1.8666)+(-0.0020)Gly+(-0.0008)Gln+(0.0039)Pro+(-0.0322)Val+(0.0309)Leu;0.612,0.668,0.715,0.737,0.742,0.739,0.582,0.700,(2.5181)+(-0.0010)Thr+(-0.0660)Cit+(-0.0126)Arg+(0.0036)Pro+(-0.0126)Leu;0.611,0.674,0.758,0.814,0.738,0.820,0.608,0.745,(2.2114)+(0.0026)Gln+(0.0045)Thr+(-0.0217)Arg+(-0.0114)Val+(-0.0086)Lys;0.611,0.667,0.707,0.717,0.711,0.721,0.662,0.703,(0.8870)+(-0.0018)Gly+(0.0227)Orn+(-0.0207)Lys+(-0.0144)Leu+(0.0349)Phe;0.611,0.665,0.702,0.716,0.714,0.722,0.629,0.695,(1.3079)+(0.0026)Thr+(-0.0187)Arg+(0.0005)Pro+(-0.0183)Lys+(0.0291)Phe;0.611,0.660,0.715,0.749,0.723,0.722,0.602,0.699,(1.3350)+(0.0033)Thr+(-0.0208)Arg+(-0.0134)Lys+(-0.0146)Leu+(0.0442)Phe;0.611,0.666,0.778,0.831,0.747,0.812,0.681,0.768,(2.3375)+(-0.0021)Gly+(0.0034)Gln+(-0.0199)Arg+(-0.0113)Val+(-0.0076)Lys;0.610,0.662,0.713,0.749,0.735,0.719,0.569,0.693,(0.7194)+(-0.0010)Gly+(-0.0304)Arg+(0.0217)Orn+(-0.0252)Leu+(0.0366)Phe;0.610,0.682,0.620,0.583,0.606,0.692,0.698,0.645,(-1.6722)+(0.0433)Ser+(-0.0067)Gly+(-0.0025)Gln+(-0.0234)Thr+(0.0134)Orn;0.610,0.660,0.700,0.720,0.718,0.738,0.580,0.689,(1.2661)+(0.0001)Gly+(0.0014)Gln+(-0.0826)Cit+(0.0023)Pro+(-0.0135)Leu;0.610,0.673,0.676,0.681,0.634,0.725,0.715,0.689,(-1.1613)+(0.0402)Ser+(-0.0077)Gly+(-0.0209)Thr+(0.0047)Pro+(-0.0141)Leu;0.609,0.675,0.715,0.769,0.690,0.741,0.608,0.702,(3.3923)+(-0.0029)Gly+(0.0085)Thr+(-0.0471)Tyr+(-0.0130)Lys+(-0.0006)Leu;0.609,0.660,0.641,0.613,0.671,0.681,0.622,0.647,(-0.0197)+(0.0004)Gln+(-0.0924)Cit+(-0.0048)Pro+(0.0278)Ile+(-0.0008)Phe;0.609,0.672,0.615,0.587,0.594,0.

673,0.692,0.636,(-1.6354)+(0.0437)Ser+(-0.0067)Gly+(-0.0022)Gln+(-0.0222)Thr+(0.0025)Pro;0.609,0.666,0.667,0.688,0.621,0.691,0.692,0.673,(0.9190)+(-0.0017)Gln+(0.0029)Pro+(-0.0320)Val+(0.0259)Leu+(0.0294)Phe;0.609,0.674,0.686,0.761,0.636,0.701,0.581,0.669,(1.8171)+(0.0011)Gln+(-0.0030)Thr+(0.0066)Pro+(-0.0544)Tyr+(-0.0109)Leu;0.609,0.666,0.692,0.718,0.635,0.694,0.744,0.698,(0.6428)+(-0.0020)Gly+(0.0026)Pro+(-0.0316)Val+(0.0248)Leu+(0.0259)Phe;0.608,0.662,0.669,0.672,0.688,0.696,0.606,0.665,(-0.0970)+(0.0023)Gly+(0.0013)Gln+(-0.0099)Thr+(-0.0893)Cit+(0.0190)Phe;0.608,0.674,0.625,0.603,0.588,0.666,0.730,0.647,(-2.9107)+(0.0427)Ser+(-0.0070)Gly+(-0.0255)Thr+(0.0014)Pro+(0.0120)Phe;0.608,0.661,0.756,0.796,0.748,0.771,0.657,0.743,(1.7718)+(-0.0018)Gly+(0.0033)Gln+(-0.0202)Arg+(-0.0124)Lys+(-0.0076)Leu;0.607,0.673,0.688,0.713,0.659,0.700,0.672,0.686,(0.7022)+(-0.0020)Gly+(-0.0018)Gln+(-0.0213)Val+(0.0239)Orn+(0.0374)Phe;0.607,0.667,0.715,0.745,0.651,0.714,0.769,0.720,(0.7682)+(-0.0013)Gly+(-0.0046)Thr+(-0.0302)Val+(0.0251)Leu+(0.0305)Phe;0.607,0.666,0.793,0.832,0.717,0.851,0.807,0.802,(1.4675)+(-0.0017)Gly+(0.0015)Gln+(-0.0031)Thr+(-0.0087)Ala+(-0.0044)Leu;0.606,0.669,0.697,0.691,0.704,0.725,0.675,0.699,(0.7681)+(-0.0050)Thr+(-0.0005)Pro+(0.0217)Orn+(-0.0233)Lys+(0.0231)Phe;0.606,0.675,0.729,0.807,0.673,0.714,0.653,0.712,(2.1280)+(-0.0039)Gly+(0.0020)Gln+(0.0011)Thr+(-0.0533)Tyr+(-0.0084)Leu;0.606,0.675,0.697,0.733,0.648,0.716,0.688,0.696,(0.1451)+(-0.0110)Thr+(0.0030)Pro+(-0.0206)Val+(0.0238)Orn+(0.0345)Phe;0.606,0.667,0.682,0.690,0.719,0.719,0.554,0.670,(1.5125)+(0.0019)Gly+(-0.0035)Thr+(-0.0740)Cit+(-0.0122)Arg+(0.0013)Pro;0.606,0.657,0.658,0.658,0.683,0.688,0.584,0.653,(0.2639)+(0.0026)Gly+(-0.0087)Thr+(-0.0876)Cit+(-0.0000)Pro+(0.0208)Phe;0.606,0.661,0.749,0.801,0.719,0.777,0.655,0.738,(2.1471)+(-0.0019)Gly+(0.0023)Gln+(-0.0245)Arg+(0.0055)Pro+(-0.0159)Val;0.606,0.658,0.714,0.735,0.724,0.741,0.617,0.

704,(2.2901)+(-0.0005)Gly+(0.0028)Thr+(-0.0177)Arg+(0.0018)Pro+(-0.0153)Lys;0.606,0.671,0.693,0.708,0.698,0.721,0.626,0.688,(0.5610)+(0.0006)Pro+(0.0212)Orn+(-0.0211)Lys+(-0.0144)Leu+(0.0354)Phe;0.606,0.669,0.699,0.727,0.643,0.711,0.735,0.704,(0.8610)+(-0.0009)Gln+(-0.0044)Thr+(-0.0305)Val+(0.0258)Leu+(0.0326)Phe;0.606,0.663,0.741,0.785,0.735,0.777,0.609,0.727,(1.6207)+(0.0028)Gln+(0.0016)Thr+(-0.0211)Arg+(-0.0129)Lys+(-0.0072)Leu;0.606,0.678,0.565,0.522,0.536,0.667,0.667,0.598,(-3.9090)+(0.0359)Ser+(-0.0296)Thr+(0.0024)Orn+(0.0270)Ile+(-0.0011)Phe;0.606,0.675,0.610,0.641,0.574,0.690,0.547,0.613,(-2.1854)+(0.0175)Ser+(0.0020)Pro+(-0.0213)Val+(0.0104)Orn+(0.0372)Phe;0.605,0.667,0.700,0.692,0.705,0.723,0.693,0.703,(0.9434)+(-0.0011)Gly+(-0.0046)Thr+(0.0219)Orn+(-0.0234)Lys+(0.0219)Phe;0.605,0.671,0.700,0.696,0.703,0.725,0.684,0.702,(0.5725)+(0.0006)Gln+(-0.0057)Thr+(0.0210)Orn+(-0.0236)Lys+(0.0222)Phe;0.605,0.681,0.646,0.664,0.617,0.719,0.608,0.652,(-2.9040)+(0.0306)Ser+(-0.0245)Thr+(0.0140)Orn+(-0.0202)Leu+(0.0375)Phe;0.605,0.665,0.728,0.757,0.664,0.756,0.766,0.736,(1.8618)+(-0.0018)Gly+(-0.0001)Gln+(-0.0030)Thr+(-0.0309)Val+(0.0321)Leu;0.605,0.658,0.734,0.776,0.713,0.778,0.634,0.725,(3.1641)+(-0.0009)Gly+(-0.0178)Arg+(0.0062)Pro+(-0.0135)Val+(-0.0060)Lys;0.605,0.662,0.708,0.750,0.729,0.722,0.544,0.686,(0.3206)+(0.0006)Gln+(-0.0316)Arg+(0.0203)Orn+(-0.0251)Leu+(0.0368)Phe;0.605,0.662,0.710,0.738,0.647,0.731,0.752,0.717,(1.7529)+(-0.0018)Gly+(-0.0045)Thr+(
0.0042)Pro+(-0.0311)Val+(0.0297)Leu;0.604,0.668,0.725,0.770,0.711,0.784,0.593,0.715,(2.9850)+(0.0044)Thr+(-0.0201)Arg+(0.0058)Pro+(-0.0136)Val+(-0.0072)Lys;0.604,0.659,0.686,0.699,0.721,0.717,0.556,0.673,(0.7585)+(0.0009)Gly+(0.0020)Gln+(-0.0753)Cit+(-0.0169)Arg+(0.0002)Pro;0.604,0.660,0.736,0.778,0.731,0.771,0.612,0.723,(1.6114)+(0.0026)Gln+(-0.0211)Arg+(0.0031)Pro+(-0.0123)Lys+(-0.0093)Leu;0.604,0.671,0.657,0

.685,0.633,0.689,0.612,0.655,(0.5437)+(-0.0024)Gln+(0.0024)Pro+(-0.0219)Val+(0.0223)Orn+(0.0373)Phe;0.604,0.675,0.631,0.653,0.598,0.687,0.600,0.634,(-2.8831)+(0.0320)Ser+(-0.0241)Thr+(0.0041)Pro+(-0.0206)Leu+(0.0382)Phe;0.604,0.669,0.696,0.711,0.701,0.720,0.629,0.690,(0.5561)+(0.0000)Gln+(0.0215)Orn+(-0.0211)Lys+(-0.0141)Leu+(0.0357)Phe;0.604,0.664,0.733,0.789,0.707,0.778,0.609,0.721,(1.9895)+(0.0018)Gln+(0.0003)Thr+(-0.0249)Arg+(0.0056)Pro+(-0.0158)Val;0.604,0.664,0.704,0.719,0.730,0.729,0.593,0.693,(0.8063)+(0.0011)Gly+(0.0025)Gln+(-0.0048)Thr+(-0.0756)Cit+(-0.0143)Arg;0.603,0.679,0.628,0.602,0.592,0.678,0.736,0.652,(-2.9551)+(0.0422)Ser+(-0.0070)Gly+(-0.0264)Thr+(0.0091)Orn+(0.0104)Phe;0.602,0.661,0.701,0.741,0.725,0.717,0.539,0.680,(0.5224)+(-0.0311)Arg+(0.0016)Pro+(0.0204)Orn+(-0.0258)Leu+(0.0365)Phe;0.602,0.660,0.693,0.721,0.635,0.728,0.712,0.699,(1.7418)+(-0.0007)Gln+(-0.0049)Thr+(0.0044)Pro+(-0.0312)Val+(0.0304)Leu;0.601,0.664,0.709,0.721,0.732,0.725,0.616,0.698,(0.8461)+(0.0026)Gln+(-0.0047)Thr+(-0.0743)Cit+(-0.0147)Arg+(0.0006)Pro;0.601,0.658,0.688,0.688,0.701,0.695,0.656,0.685,(0.1395)+(0.0017)Gln+(-0.0088)Thr+(-0.0864)Cit+(-0.0005)Pro+(0.0163)Phe;0.601,0.667,0.689,0.722,0.643,0.698,0.690,0.689,(0.1702)+(-0.0029)Gly+(0.0021)Pro+(-0.0218)Val+(0.0204)Orn+(0.0321)Phe;0.601,0.663,0.614,0.606,0.607,0.657,0.616,0.622,(-1.3484)+(0.0340)Ser+(-0.0074)Gly+(-0.0034)Gln+(-0.0217)Leu+(0.0323)Phe;0.600,0.658,0.750,0.798,0.738,0.799,0.616,0.738,(3.3265)+(-0.0016)Gly+(0.0072)Thr+(-0.0192)Arg+(-0.0116)Val+(-0.0076)Lys;0.600,0.657,0.728,0.762,0.740,0.761,0.587,0.712,(1.9473)+(-0.0013)Gly+(-0.0045)Thr+(-0.0258)Arg+(0.0264)Orn+(-0.0178)Leu;0.600,0.664,0.693,0.725,0.632,0.696,0.732,0.696,(0.5708)+(-0.0066)Thr+(0.0033)Pro+(-0.0302)Val+(0.0236)Leu+(0.0287)Phe;0.600,0.661,0.772,0.828,0.744,0.800,0.659,0.758,(2.1537)+(-0.0023)Gly+(0.0026)Gln+(0.0026)Thr+(-0.0250)Arg+(-0.0142)Val;0.600,0.661,0.728,0.769,0.736,0.77

0,0.574,0.712,(1.2526)+(0.0015)Gln+(-0.0062)Thr+(-0.0273)Arg+(0.0247)Orn+(-0.0177)Leu;0.599,0.659,0.744,0.782,0.704,0.781,0.699,0.742,(2.1990)+(-0.0023)Gly+(0.0016)Gln+(0.0049)Pro+(-0.0128)Val+(-0.0124)Lys;0.599,0.676,0.629,0.600,0.597,0.690,0.729,0.654,(-2.5465)+(0.0419)Ser+(-0.0072)Gly+(-0.0260)Thr+(0.0013)Pro+(0.0100)Orn;0.599,0.657,0.652,0.655,0.700,0.686,0.523,0.641,(0.4701)+(0.0022)Gly+(-0.0767)Cit+(-0.0157)Arg+(-0.0004)Pro+(0.0209)Phe;0.598,0.659,0.663,0.668,0.701,0.693,0.548,0.652,(0.5234)+(0.0026)Gly+(-0.0047)Thr+(-0.0770)Cit+(-0.0131)Arg+(0.0228)Phe;0.598,0.656,0.662,0.669,0.703,0.693,0.538,0.651,(0.0286)+(0.0016)Gly+(0.0016)Gln+(-0.0777)Cit+(-0.0178)Arg+(0.0178)Phe;0.598,0.664,0.726,0.740,0.726,0.764,0.666,0.724,(1.9860)+(-0.0018)Gly+(-0.0044)Thr+(0.0270)Orn+(-0.0177)Lys+(-0.0085)Leu;0.597,0.655,0.687,0.696,0.682,0.699,0.666,0.686,(-0.2571)+(0.0014)Gln+(-0.0065)Thr+(-0.0283)Arg+(-0.0032)Pro+(0.0244)Ile;0.597,0.666,0.680,0.677,0.692,0.703,0.646,0.680,(0.1071)+(-0.0072)Thr+(-0.0276)Arg+(-0.0033)Pro+(0.0114)Orn+(0.0218)Ile;0.597,0.659,0.692,0.684,0.700,0.715,0.678,0.695,(0.9132)+(-0.0014)Gly+(-0.0011)Pro+(0.0208)Orn+(-0.0247)Lys+(0.0224)Phe;0.597,0.653,0.679,0.687,0.712,0.694,0.578,0.668,(0.2049)+(0.0020)Gln+(-0.0756)Cit+(-0.0176)Arg+(-0.0009)Pro+(0.0168)Phe;0.597,0.666,0.732,0.763,0.693,0.769,0.703,0.732,(1.7477)+(-0.0024)Gly+(-0.0002)Gln+(-0.0079)Thr+(-0.0169)Val+(0.0288)Orn;0.597,0.660,0.694,0.723,0.660,0.743,0.655,0.695,(1.7345)+(-0.0029)Gly+(-0.0012)Gln+(0.0037)Pro+(-0.0191)Val+(0.0243)Orn;0.597,0.666,0.706,0.711,0.707,0.749,0.660,0.707,(1.1771)+(0.0009)Gln+(-0.0059)Thr+(0.0004)Pro+(0.0231)Orn+(-0.0214)Lys;0.597,0.668,0.723,0.744,0.717,0.771,0.644,0.719,(1.3910)+(0.0009)Gln+(-0.0061)Thr+(0.0255)Orn+(-0.0182)Lys+(-0.0081)Leu;0.597,0.662,0.709,0.708,0.712,0.746,0.677,0.711,(1.6868)+(-0.0014)Gly+(-0.0044)Thr+(0.0003)Pro+(0.0244)Orn+(-0.0212)Lys;0.597,0.653,0.668,0.673,0.673,0.689,0.630,0.6

66,(0.0774)+(0.0009)Gly+(-0.0058)Thr+(-0.0270)Arg+(-0.0029)Pro+(0.0254)Ile;0.597,0.658,0.729,0.777,0.710,0.764,0.615,0.716,(2.8216)+(-0.0013)Gly+(0.0024)Thr+(-0.0229)Arg+(0.0059)Pro+(-0.0158)Val;0.596,0.665,0.512,0.436,0.522,0.617,0.615,0.548,(-2.2693)+(0.0365)Ser+(-0.0065)Gly+(-0.0049)Gln+(-0.0045)Pro+(0.0226)Ile;0.596,0.669,0.711,0.725,0.713,0.759,0.637,0.708,(1.6717)+(-0.0062)Thr+(0.0020)Pro+(0.0257)Orn+(-0.0175)Lys+(-0.0093)Leu;0.596,0.647,0.728,0.765,0.734,0.756,0.598,0.713,(2.6778)+(-0.0010)Gly+(0.0041)Thr+(-0.0184)Arg+(-0.0120)Lys+(-0.0068)Leu;0.596,0.677,0.629,0.634,0.619,0.752,0.550,0.639,(-0.9376)+(0.0317)Ser+(-0.0026)Gln+(-0.0211)Thr+(0.0193)Orn+(-0.0120)Leu;0.596,0.664,0.715,0.744,0.673,0.755,0.700,0.718,(1.5923)+(-0.0023)Gly+(-0.0093)Thr+(0.0043)Pro+(-0.0182)Val+(0.0270)Orn;0.595,0.665,0.721,0.724,0.717,0.753,0.697,0.722,(1.3275)+(-0.0018)Gly+(0.0012)Gln+(-0.0051)Thr+(0.0235)Orn+(-0.0217)Lys;0.595,0.657,0.708,0.744,0.721,0.753,0.555,0.693,(1.7052)+(-0.0060)Thr+(-0.0261)Arg+(0.0030)Pro+(0.0251)Orn+(-0.0191)Leu;0.595,0.662,0.768,0.812,0.728,0.808,0.709,0.764,(2.1952)+(-0.0025)Gly+(0.0020)Gln+(0.0010)Thr+(-0.0110)Val+(-0.0125)Lys;0.595,0.654,0.634,0.642,0.609,0.661,0.645,0.639,(-2.2146)+(0.0298)Ser+(-0.0084)Gly+(0.0010)Pro+(-0.0235)Leu+(0.0263)Phe;0.594,0.667,0.631,0.618,0.624,0.718,0.617,0.644,(-0.4320)+(0.0327)Ser+(-0.0080)Gly+(-0.0032)Gln+(0.0105)Orn+(-0.0171)Leu;0.594,0.665,0.696,0.727,0.661,0.753,0.650,0.698,(1.5757)+(-0.0008)Gln+(-0.0099)Thr+(0.0045)Pro+(-0.0179)Val+(0.0271)Orn;0.593,0.655,0.732,0.768,0.699,0.774,0.674,0.729,(2.6799)+(-0.0017)Gly+(0.0004)Thr+(0.0053)Pro+(-0.0129)Val+(-0.0112)Lys;0.593,0.659,0.640,0.646,0.616,0.674,0.647,0.646,(-2.2283)+(0.0293)Ser+(-0.0085)Gly+(0.0045)Orn+(-0.0237)Leu+(0.0259)Phe;0.593,0.651,0.730,0.770,0.740,0.763,0.577,0.712,(1.4328)+(-0.0022)Gly+(0.0015)Gln+(-0.0296)Arg+(0.0225)Orn+(-0.0190)Leu;0.593,0.661,0.696,0.705,0.719,0.700,0.621,0.686,(0.20

63)+(0.0024)Gln+(-0.0053)Thr+(-0.0756)Cit+(-0.0152)Arg+(0.0172)Phe;0.593,0.662,0.683,0.680,0.692,0.716,0.650,0.685,(0.5696)+(0.0002)Gln+(-0.0010)Pro+(0.0195)Orn+(-0.0251)Lys+(0.0232)Phe;0.593,0.654,0.710,0.720,0.714,0.754,0.646,0.709,(1.8824)+(-0.0022)Gly+(0.0013)Pro+(0.0245)Orn+(-0.0192)Lys+(-0.0093)Leu;0.592,0.659,0.692,0.684,0.698,0.714,0.685,0.695,(0.7360)+(-0.0016)Gly+(0.0006)Gln+(0.0196)Orn+(-0.0252)Lys+(0.0208)Phe;0.592,0.672,0.558,0.520,0.554,0.675,0.582,0.583,(-2.5059)+(0.0374)Ser+(-0.0037)Gln+(-0.0250)Thr+(0.0112)Orn+(0.0186)Phe;0.591,0.655,0.729,0.771,0.692,0.783,0.655,0.725,(2.0052)+(0.0012)Gln+(-0.0017)Thr+(0.0052)Pro+(-0.0126)Val+(-0.0120)Lys;0.591,0.663,0.552,0.523,0.545,0.644,0.576,0.572,(-2.5300)+(0.0379)Ser+(-0.0034)Gln+(-0.0242)Thr+(0.0020)Pro+(0.0199)Phe;0.591,0.648,0.716,0.753,0.721,0.755,0.581,0.703,(2.4686)+(0.0022)Thr+(-0.0190)Arg+(0.0034)Pro+(-0.0116)Lys+(-0.0090)Leu;0.591,0.646,0.725,0.760,0.725,0.755,0.609,0.712,(2.5976)+(-0.0006)Gly+(-0.0178)Arg+(0.0036)Pro+(-0.0109)Lys+(-0.0092)Leu;0.591,0.638,0.636,0.633,0.673,0.662,0.550,0.630,(-0.0550)+(0.0015)Gly+(0.0003)Gln+(-0.0914)Cit+(-0.0014)Pro+(0.0159)Phe;0.591,0.658,0.722,0.738,0.717,0.761,0.664,0.720,(1.6096)+(-0.0025)Gly+(0.0010)Gln+(0.0241)Orn+(-0.0199)Lys+(-0.0086)Leu;0.591,0.647,0.711,0.747,0.727,0.748,0.553,0.694,(1.8122)+(-0.0016)Gly+(-0.0284)Arg+(0.0024)Pro+(0.0231)Orn+(-0.0198)Leu;0.591,0.655,0.678,0.680,0.713,0.686,0.596,0.668,(0.9750)+(-0.0032)Thr+(-0.0729)Cit+(-0.0131)Arg+(-0.0001)Pro+(0.0194)Phe;0.590,0.649,0.673,0.680,0.673,0.688,0.641,0.671,(-0.3058)+(0.0006)Gly+(0.0011)Gln+(-0.0075)Thr+(-0.0283)Arg+(0.0209)Ile;0.590,0.653,0.704,0.746,0.722,0.756,0.517,0.686,(1.2286)+(0.0009)Gln+(-0.0302)Arg+(0.0023)Pro+(0.0211)Orn+(-0.0196)Leu;0.590,0.658,0.490,0.403,0.505,0.605,0.603,0.529,(-2.0382)+(0.0362)Ser+(-0.0067)Gly+(-0.0050)Gln+(0.0197)Ile+(-0.0095)Phe;0.589,0.651,0.656,0.654,0.678,0.690,0.589,0.653,(-0.1364)+(0.0002

)Gly+(-0.0315)Arg+(-0.0039)Pro+(0.0079)Orn+(0.0219)Ile;0.589,0.650,0.660,0.661,0.680,0.690,0.596,0.657,(-0.3074)+(0.0006)Gln+(-0.0322)Arg+(-0.0040)Pro+(0.0073)Orn+(0.0218)Ile;0.589,0.648,0.731,0.786,0.733,0.712,0.597,0.707,(0.3198)+(-0.0010)Gly+(0.0018)Gln+(-0.0290)Arg+(-0.0223)Leu+(0.0383)Phe;0.588,0.655,0.622,0.613,0.610,0.690,0.618,0.633,(-0.4584)+(0.0335)Ser+(-0.0080)Gly+(-0.0029)Gln+(0.0022)Pro+(-0.0167)Leu;0.588,0.660,0.664,0.660,0.679,0.695,0.622,0.664,(-0.0553)+(0.0007)Gly+(-0.0084)Thr+(-0.0279)Arg+(0.0104)Orn+(0.0185)Ile;0.588,0.647,0.713,0.768,0.716,0.705,0.567,0.689,(0.2402)+(0.0014)Gln+(-0.0295)Arg+(0.0024)Pro+(-0.0235)Leu+(0.0378)Phe;0.587,0.657,0.678,0.678,0.687,0.700,0.644,0.677,(-0.2549)+(0.0009)Gln+(-0.0088)Thr+(-0.0286)Arg+(0.0098)Orn+(0.0178)Ile;0.587,0.646,0.663,0.669,0.675,0.686,0.608,0.660,(-0.3148)+(0.0001)Gly+(0.0009)Gln+(-0.0315)Arg+(-0.0038)Pro+(0.0238)Ile;0.587,0.655,0.707,0.708,0.706,0.744,0.677,0.709,(1.3626)+(-0.0021)Gly+(0.0009)Gln+(-0.0003)Pro+(0.0219)Orn+(-0.0231)Lys;0.587,0.653,0.712,0.736,0.702,0.715,0.668,0.705,(0.8536)+(-0.0029)Thr+(0.0022)Pro+(-0.0172)Lys+(-0.0136)Leu+(0.0387)Phe;0.587,0.649,0.732,0.788,0.731,0.715,0.598,0.708,(0.2098)+(0.0018)Gln+(-0.0029)Thr+(-0.0278)Arg+(-0.0217)Leu+(0.0395)Phe;0.587,0.648,0.721,0.743,0.712,0.717,0.682,0.713,(1.0022)+(-0.0008)Gly+(-0.0015)Thr+(-0.0173)Lys+(-0.0125)Leu+(0.0393)Phe;0.586,0.649,0.725,0.751,0.711,0.718,0.690,0.718,(0.6308)+(-0.0014)Gly+(0.0013)Gln+(-0.0188)Lys+(-0.0125)Leu+(0.0371)Phe;0.586,0.653,0.725,0.754,0.710,0.726,0.679,0.717,(0.4721)+(0.0012)Gln+(-0.0031)Thr+(-0.0179)Lys+(-0.0123)Leu+(0.0384)Phe;0.586,0.647,0.711,0.733,0.704,0.709,0.673,0.705,(0.9588)+(-0.0010)Gly+(0.0018)Pro+(-0.0180)Lys+(-0.0135)Leu+(0.0379)Phe;0.586,0.645,0.723,0.774,0.729,0.705,0.588,0.699,(0.8288)+(-0.0002)Gly+(-0.0013)Thr+(-0.0260)Arg+(-0.0214)Leu+(0.0411)Phe;0.585,0.653,0.723,0.767,0.671,0.703,0.726,0.717,(0.5924)+(-0.0011)Gly+(-0.0

001)Gln+(-0.0053)Thr+(-0.0181)Val+(0.0409)Phe;0.584,0.653,0.676,0.679,0.678,0.687,0.655,0.675,(0.2575)+(-0.0053)Thr+(-0.0266)Arg+(-0.0029)Pro+(0.0250)Ile+(-0.0011)Phe;

0.583,0.651,0.720,0.728,0.710,0.719,0.718,0.719,(0.6075)+(-0.0011)Gly+(0.0015)Gln+(-0.0027)Thr+(-0.0219)Lys+(0.0254)Phe;0.583,0.651,0.707,0.733,0.695,0.717,0.654,0.700,(0.4935)+(0.0008)Gln+(0.0016)Pro+(-0.0190)Lys+(-0.0133)Leu+(0.0374)Phe;0.583,0.653,0.711,0.719,0.703,0.720,0.702,0.711,(0.5025)+(0.0012)Gln+(-0.0032)Thr+(0.0003)Pro+(-0.0218)Lys+(0.0260)Phe;0.583,0.656,0.695,0.711,0.700,0.753,0.600,0.691,(1.3799)+(0.0004)Gln+(0.0013)Pro+(0.0227)Orn+(-0.0200)Lys+(-0.0086)Leu;0.582,0.663,0.558,0.521,0.561,0.684,0.560,0.581,(-1.8707)+(0.0361)Ser+(-0.0034)Gln+(-0.0245)Thr+(0.0022)Pro+(0.0127)Orn;0.582,0.646,0.710,0.759,0.717,0.695,0.572,0.686,(0.7829)+(-0.0003)Gly+(-0.0274)Arg+(0.0027)Pro+(-0.0232)Leu+(0.0391)Phe;0.582,0.647,0.705,0.708,0.702,0.709,0.698,0.704,(0.9946)+(-0.0006)Gly+(-0.0018)Thr+(0.0004)Pro+(-0.0213)Lys+(0.0268)Phe;0.582,0.648,0.678,0.685,0.678,0.689,0.655,0.677,(-0.1621)+(0.0013)Gln+(-0.0073)Thr+(-0.0281)Arg+(0.0214)Ile+(-0.0033)Phe;0.581,0.652,0.687,0.727,0.643,0.674,0.679,0.681,(0.6904)+(-0.0015)Gly+(-0.0009)Gln+(0.0035)Pro+(-0.0199)Val+(0.0371)Phe;0.581,0.653,0.645,0.650,0.618,0.711,0.642,0.655,(-1.3637)+(0.0292)Ser+(-0.0089)Gly+(0.0012)Pro+(0.0060)Orn+(-0.0194)Leu;0.581,0.645,0.712,0.762,0.716,0.696,0.581,0.689,(0.8004)+(-0.0025)Thr+(-0.0261)Arg+(0.0030)Pro+(-0.0229)Leu+(0.0395)Phe;0.581,0.648,0.711,0.718,0.704,0.715,0.705,0.711,(0.6328)+(-0.0012)Gly+(0.0013)Gln+(-0.0001)Pro+(-0.0227)Lys+(0.0252)Phe;0.580,0.647,0.737,0.756,0.720,0.758,0.706,0.735,(1.3284)+(-0.0016)Gly+(0.0019)Gln+(-0.0027)Thr+(0.0012)Pro+(-0.0194)Lys;0.580,0.649,0.661,0.663,0.668,0.681,0.625,0.659,(0.0793)+(0.0009)Gly+(-0.0066)Thr+(-0.0270)Arg+(0.0222)Ile+(-0.0017)Phe;0.580,0.652,0.657,0.655,0.679,0.690,0.591,0.654

,(0.0100)+(-0.0311)Arg+(-0.0039)Pro+(0.0083)Orn+(0.0226)Ile+(-0.0037)Phe;0.579,0.657,0.671,0.666,0.684,0.698,0.636,0.671,(0.1862)+(-0.0080)Thr+(-0.0274)Arg+(0.0110)Orn+(0.0190)Ile+(-0.0042)Phe;0.579,0.653,0.484,0.402,0.497,0.581,0.607,0.522,(-2.3250)+(0.0367)Ser+(-0.0065)Gly+(-0.0050)Gln+(-0.0045)Orn+(0.0183)Ile;0.579,0.644,0.654,0.658,0.671,0.679,0.595,0.651,(0.0133)+(0.0004)Gly+(-0.0301)Arg+(-0.0035)Pro+(0.0248)Ile+(-0.0019)Phe;0.579,0.646,0.705,0.725,0.718,0.731,0.605,0.695,(0.2684)+(0.0011)Gln+(-0.0079)Thr+(-0.0277)Arg+(-0.0006)Pro+(0.0161)Orn;0.578,0.650,0.706,0.752,0.650,0.684,0.717,0.701,(0.5936)+(-0.0011)Gly+(-0.0067)Thr+(0.0040)Pro+(-0.0191)Val+(0.0370)Phe;0.578,0.645,0.701,0.716,0.722,0.725,0.599,0.691,(0.6636)+(-0.0002)Gly+(-0.0070)Thr+(-0.0266)Arg+(-0.0005)Pro+(0.0172)Orn;0.578,0.646,0.665,0.670,0.676,0.688,0.612,0.662,(-0.2184)+(0.0009)Gln+(-0.0313)Arg+(-0.0037)Pro+(0.0245)Ile+(-0.0030)Phe;0.577,0.651,0.608,0.618,0.593,0.711,0.541,0.616,(-0.9777)+(0.0330)Ser+(-0.0022)Gln+(-0.0204)Thr+(0.0051)Pro+(-0.0123)Leu;0.577,0.643,0.707,0.725,0.720,0.726,0.619,0.698,(0.2832)+(-0.0005)Gly+(0.0012)Gln+(-0.0079)Thr+(-0.0277)Arg+(0.0157)Orn;0.577,0.645,0.554,0.498,0.533,0.653,0.671,0.589,(-3.0913)+(0.0304)Ser+(-0.0080)Gly+(-0.0051)Pro+(0.0215)Ile+(-0.0148)Phe;0.576,0.648,0.753,0.786,0.733,0.769,0.694,0.745,(1.5446)+(-0.0019)Gly+(0.0021)Gln+(-0.0019)Thr+(-0.0167)Lys+(-0.0061)Leu;0.576,0.658,0.632,0.645,0.605,0.744,0.573,0.642,(-1.7832)+(0.0297)Ser+(-0.0244)Thr+(0.0040)Pro+(0.0152)Orn+(-0.0153)Leu;0.575,0.639,0.642,0.641,0.669,0.669,0.571,0.638,(-0.3322)+(0.0001)Gly+(0.0003)Gln+(-0.0325)Arg+(0.0061)Orn+(0.0171)Ile;0.575,0.649,0.693,0.739,0.640,0.683,0.689,0.688,(0.5873)+(-0.0005)Gln+(-0.0068)Thr+(0.0041)Pro+(-0.0191)Val+(0.0385)Phe;0.575,0.643,0.692,0.706,0.713,0.708,0.601,0.682,(0.3031)+(0.0000)Gly+(-0.0075)Thr+(-0.0272)Arg+(0.0156)Orn+(0.0077)Phe;0.574,0.651,0.449,0.377,0.473,0.612,0.474,0.484,(-2.374

1)+(0.0291)Ser+(-0.0055)Gln+(-0.0045)Pro+(0.0273)Ile+(-0.0058)Phe;0.573,0.643,0.697,0.711,0.717,0.714,0.603,0.686,(0.3111)+(-0.0073)Thr+(-0.0272)Arg+(-0.0009)Pro+(0.0160)Orn+(0.0086)Phe;0.572,0.645,0.700,0.717,0.715,0.718,0.613,0.691,(0.0060)+(0.0010)Gln+(-0.0082)Thr+(-0.0281)Arg+(0.0147)Orn+(0.0069)Phe;0.571,0.658,0.575,0.559,0.545,0.672,0.612,0.597,(-3.4799)+(0.0337)Ser+(-0.0278)Thr+(0.0010)Pro+(0.0074)Orn+(0.0129)Phe;0.571,0.640,0.738,0.769,0.717,0.758,0.682,0.732,(1.5414)+(-0.0020)Gly+(0.0018)Gln+(0.0022)Pro+(-0.0174)Lys+(-0.0077)Leu;0.571,0.634,0.649,0.649,0.669,0.676,0.591,0.646,(-0.2023)+(0.0001)Gly+(0.0006)Gln+(-0.0316)Arg+(0.0202)Ile+(-0.0044)Phe;0.570,0.638,0.640,0.635,0.668,0.676,0.569,0.637,(-0.0599)+(0.0001)Gly+(-0.0317)Arg+(0.0070)Orn+(0.0185)Ile+(-0.0052)Phe;0.570,0.645,0.534,0.483,0.541,0.614,0.596,0.559,(-1.7420)+(0.0355)Ser+(-0.0071)Gly+(-0.0043)Gln+(-0.0014)Pro+(0.0046)Phe;0.570,0.631,0.755,0.812,0.746,0.761,0.620,0.735,(1.3494)+(-0.0017)Gly+(0.0027)Gln+(-0.0019)Thr+(-0.0259)Arg+(-0.0148)Leu;0.570,0.642,0.731,0.766,0.709,0.763,0.660,0.724,(1.3594)+(0.0016)Gln+(-0.0039)Thr+(0.0027)Pro+(-0.0163)Lys+(-0.0075)Leu;0.570,0.632,0.688,0.707,0.714,0.711,0.566,0.675,(0.2866)+(-0.0010)Gly+(0.0008)Gln+(-0.0309)Arg+(-0.0013)Pro+(0.0131)Orn;0.570,0.648,0.449,0.379,0.473,0.597,0.477,0.482,(-2.5417)+(0.0295)Ser+(-0.0055)Gln+(-0.0044)Pro+(-0.0037)Orn+(0.0266)Ile;0.568,0.636,0.725,0.775,0.669,0.734,0.703,0.720,(1.7166)+(-0.0019)Gly+(0.0006)Gln+(-0.0060)Thr+(0.0053)Pro+(-0.0162)Val;0.568,0.629,0.735,0.789,0.729,0.746,0.594,0.715,(1.3419)+(-0.0017)Gly+(0.0022)Gln+(-0.0274)Arg+(0.0032)Pro+(-0.0172)Leu;0.568,0.632,0.728,0.785,0.719,0.749,0.578,0.708,(1.1930)+(0.0022)Gln+(-0.0038)Thr+(-0.0260)Arg+(0.0036)Pro+(-0.0164)Leu;0.568,0.635,0.725,0.751,0.714,0.749,0.661,0.719,(2.1106)+(-0.0012)Gly+(-0.0017)Thr+(0.0029)Pro+(-0.0154)Lys+(-0.0076)Leu;0.566,0.637,0.644,0.642,0.668,0.677,0.573,0.640,(-0.1682)+(0.000

4)Gln+(-0.0322)Arg+(0.0065)Orn+(0.0184)Ile+(-0.0055)Phe;0.566,0.647,0.539,0.486,0.547,0.628,0.598,0.565,(-1.5834)+(0.0352)Ser+(-0.0072)Gly+(-0.0042)Gln+(-0.0014)Pro+(0.0025)Orn;0.565,0.626,0.715,0.749,0.717,0.707,0.628,0.700,(0.3900)+(-0.0006)Gly+(0.0018)Gln+(-0.0053)Thr+(-0.0268)Arg+(0.0003)Pro;0.564,0.638,0.546,0.494,0.523,0.620,0.676,0.578,(-3.5473)+(0.0312)Ser+(-0.0077)Gly+(-0.0051)Pro+(-0.0079)Orn+(0.0195)Ile;0.564,0.624,0.719,0.769,0.721,0.732,0.573,0.699,(2.0470)+(-0.0007)Gly+(-0.0016)Thr+(-0.0237)Arg+(0.0038)Pro+(-0.0159)Leu;0.563,0.639,0.534,0.541,0.549,0.622,0.420,0.533,(-1.7391)+(0.0257)Ser+(-0.0044)Gln+(0.0016)Pro+(-0.0226)Leu+(0.0356)Phe;0.559,0.627,0.704,0.735,0.707,0.691,0.625,0.690,(-0.0213)+(-0.0002)Gly+(0.0015)Gln+(-0.0058)Thr+(-0.0275)Arg+(0.0110)Phe;0.559,0.630,0.676,0.692,0.709,0.694,0.555,0.662,(0.2148)+(-0.0005)Gly+(-0.0306)Arg+(-0.0015)Pro+(0.0130)Orn+(0.0074)Phe;0.558,0.640,0.423,0.346,0.451,0.577,0.456,0.458,(-2.4091)+(0.0294)Ser+(-0.0056)Gln+(-0.0046)Orn+(0.0231)Ile+(-0.0060)Phe;0.558,0.644,0.539,0.543,0.560,0.639,0.411,0.538,(-1.7074)+(0.0250)Ser+(-0.0046)Gln+(0.0080)Orn+(-0.0228)Leu+(0.0352)Phe;0.557,0.634,0.713,0.747,0.695,0.687,0.681,0.703,(-0.0696)+(-0.0012)Gly+(-0.0131)Thr+(0.0198)Orn+(-0.0236)Leu+(0.0299)Phe;0.557,0.631,0.673,0.694,0.702,0.698,0.540,0.659,(-0.0423)+(0.0005)Gln+(-0.0315)Arg+(-0.0016)Pro+(0.0121)Orn+(0.0076)Phe;0.557,0.627,0.671,0.689,0.699,0.687,0.555,0.658,(0.0325)+(-0.0007)Gly+(0.0005)Gln+(-0.0314)Arg+(0.0113)Orn+(0.0050)Phe;0.556,0.640,0.518,0.459,0.530,0.603,0.590,0.546,(-1.7734)+(0.0354)Ser+(-0.0071)Gly+(-0.0044)Gln+(0.0010)Orn+(0.0026)Phe;0.556,0.624,0.690,0.717,0.703,0.682,0.597,0.675,(0.3750)+(0.0003)Gly+(-0.0047)Thr+(-0.0261)Arg+(-0.0000)Pro+(0.0131)Phe;0.556,0.620,0.687,0.716,0.704,0.681,0.583,0.671,(-0.0070)+(-0.0006)Gly+(0.0011)Gln+(-0.0301)Arg+(-0.0009)Pro+(0.0101)Phe;0.556,0.627,0.704,0.736,0.707,0.693,0.620,0.689,(-0.0464)+(0.0015)Gln+

(-0.0058)Thr+(-0.0275)Arg+(-0.0002)Pro+(0.0115)Phe;0.554,0.634,0.702,0.736,0.687,0.689,0.653,0.691,(-0.1116)+(-0.0005)Gln+(-0.0133)Thr+(0.0198)Orn+(-0.0235)Leu+(0.0312)Phe;0.551,0.630,0.522,0.461,0.502,0.613,0.661,0.559,(-3.1258)+(0.0311)Ser+(-0.0081)Gly+(-0.0084)Orn+(0.0173)Ile+(-0.0146)Phe;0.549,0.639,0.542,0.546,0.568,0.697,0.366,0.544,(-0.7695)+(0.0236)Ser+(-0.0041)Gln+(0.0018)Pro+(0.0094)Orn+(-0.0169)Leu;0.545,0.631,0.698,0.735,0.676,0.686,0.653,0.687,(-0.2692)+(-0.0144)Thr+(0.0020)Pro+(0.0186)Orn+(-0.0244)Leu+(0.0296)Phe;0.543,0.626,0.727,0.760,0.704,0.743,0.678,0.721,(0.8245)+(-0.0017)Gly+(0.0003)Gln+(-0.0121)Thr+(0.0218)Orn+(-0.0183)Leu;0.543,0.626,0.570,0.536,0.552,0.633,0.652,0.593,(-2.7611)+(0.0307)Ser+(-0.0082)Gly+(-0.0022)Pro+(-0.0026)Orn+(-0.0021)Phe;0.542,0.623,0.555,0.595,0.543,0.619,0.428,0.546,(-2.8951)+(0.0189)Ser+(0.0005)Pro+(0.0025)Orn+(-0.0242)Leu+(0.0293)Phe;0.536,0.619,0.711,0.741,0.689,0.729,0.665,0.706,(0.8527)+(-0.0016)Gly+(-0.0128)Thr+(0.0025)Pro+(0.0212)Orn+(-0.0196)Leu;0.531,0.621,0.700,0.732,0.680,0.732,0.632,0.694,(0.6672)+(-0.0001)Gln+(-0.0137)Thr+(0.0027)Pro+(0.0208)Orn+(-0.0193)Leu;0.526,0.605,0.726,0.776,0.693,0.675,0.701,0.711,(-0.0537)+(-0.0009)Gly+(0.0004)Gln+(-0.0101)Thr+(-0.0214)Leu+(0.0330)Phe;0.525,0.630,0.449,0.406,0.478,0.589,0.399,0.468,(-2.1217)+(0.0275)Ser+(-0.0051)Gln+(-0.0014)Pro+(0.0015)Orn+(0.0084)Phe;0.525,0.618,0.642,0.623,0.608,0.656,0.755,0.661,(-0.6880)+(0.0003)Gly+(-0.0005)Gln+(-0.0144)Thr+(-0.0033)Pro+(0.0227)Ile;0.525,0.624,0.638,0.612,0.612,0.661,0.748,0.658,(-0.6876)+(-0.0007)Gln+(-0.0153)Thr+(-0.0034)Pro+(0.0079)Orn+(0.0205)Ile;0.523,0.623,0.646,0.626,0.610,0.667,0.759,0.666,(-0.9400)+(-0.0000)Gly+(-0.0160)Thr+(-0.0035)Pro+(0.0072)Orn+(0.0203)Ile;0.523,0.625,0.622,0.588,0.604,0.639,0.738,0.642,(-0.7229)+(0.0003)Gly+(-0.0009)Gln+(-0.0163)Thr+(0.0073)Orn+(0.0166)Ile;0.522,0.606,0.706,0.753,0.675,0.654,0.685,0.692,(0.0553)+(-0.0007)Gly+(-0.

0108)Thr+(0.0027)Pro+(-0.0226)Leu+(0.0321)Phe;0.519,0.607,0.701,0.750,0.668,0.661,0.669,0.687,(-0.1278)+(0.0002)Gln+(-0.0115)Thr+(0.0027)Pro+(-0.0226)Leu+(0.0323)Phe;0.519,0.614,0.637,0.614,0.607,0.647,0.751,0.655,(-0.4525)+(0.0002)Gly+(-0.0005)Gln+(-0.0149)Thr+(0.0210)Ile+(-0.0086)Phe;0.518,0.618,0.651,0.635,0.614,0.668,0.759,0.669,(-0.5639)+(0.0000)Gly+(-0.0144)Thr+(-0.0032)Pro+(0.0246)Ile+(-0.0082)Phe;0.516,0.617,0.649,0.630,0.616,0.664,0.758,0.667,(-0.4443)+(-0.0003)Gln+(-0.0140)Thr+(-0.0032)Pro+(0.0246)Ile+(-0.0078)Phe;0.515,0.621,0.642,0.616,0.613,0.664,0.753,0.661,(-0.6289)+(-0.0001)Gly+(-0.0165)Thr+(0.0074)Orn+(0.0189)Ile+(-0.0107)Phe;0.515,0.625,0.632,0.602,0.612,0.654,0.738,0.652,(-0.4207)+(-0.0007)Gln+(-0.0159)Thr+(0.0080)Orn+(0.0191)Ile+(-0.0100)Phe;0.514,0.623,0.64

8,0.628,0.615,0.678,0.751,0.668,(-0.6316)+(-0.0157)Thr+(-0.0034)Pro+(0.0079)Orn+(0.0228)Ile+(-0.0097)Phe;0.514,0.614,0.471,0.432,0.452,0.620,0.505,0.502,(-3.6972)+(0.0215)Ser+(-0.0053)Pro+(-0.0086)Orn+(0.0256)Ile+(-0.0110)Phe;0.507,0.588,0.728,0.781,0.686,0.712,0.687,0.717,(0.8135)+(-0.0014)Gly+(0.0009)Gln+(-0.0102)Thr+(0.0033)Pro+(-0.0172)Leu

[0382] 0.902,0.923,0.809,0.790,0.778,0.870,0.878,0.829,(-1.3217)+(0.0545)Ser+(-0.0544)Val+(-0.3973)Met+(0.1922)Ile+(0.1506)Phe+(-0.1179)Trp;0.900,0.919,0.800,0.780,0.815,0.860,0.777,0.808,(1.1114)+(0.0530)Ser+(-0.1384)His+(0.0420)Thr+(-0.3641)Met+(0.1993)Phe+(-0.1237)Trp;0.899,0.917,0.812,0.798,0.789,0.854,0.864,0.826,(2.2454)+(0.0452)Thr+(-0.0612)Val+(-0.4741)Met+(0.2021)Ile+(0.1569)Phe+(-0.1267)Trp;0.894,0.918,0.783,0.749,0.760,0.870,0.859,0.810,(-1.8219)+(0.0622)Ser+(-0.1003)His+(-0.0447)Val+(-0.4105)Met+(0.1701)Ile+(0.1621)Phe;0.891,0.913,0.825,0.813,0.822,0.870,0.830,0.834,(-0.7646)+(0.0539)Ser+(0.0080)Gln+(-0.1367)His+(-0.2716)Met+(0.1766)Phe+(-0.1028)Trp;0.891,0.910,0.793,0.765,0.776,0.856,0.858,0.814,(2.3264)+(-0.0966)His+(0.0489)Thr+(-0.0552)Val+(

-0.4896)Met+(0.1897)Ile+(0.1580)Phe;0.890,0.916,0.807,0.794,0.791,0.8
54,0.841,0.820,(-1.8334)+(0.0536)Ser+(-0.3463)Met+(0.1735)Ile+(-0.082
0)Leu+(0.1380)Phe+(-0.1330)Trp;0.890,0.912,0.785,0.765,0.749,0.870,0.
849,0.808,(-3.2110)+(0.0409)Ser+(0.0284)Thr+(-0.0697)Val+(-0.5814)Met
+(0.2181)Ile+(0.1512)Phe;0.890,0.914,0.791,0.754,0.794,0.854,0.836,0.
810,(-0.4856)+(0.0659)Ser+(-0.1214)His+(-0.2902)Met+(0.0720)Ile+(0.15
03)Phe+(-0.1121)Trp;0.889,0.910,0.831,0.819,0.840,0.854,0.829,0.835,(
2.1791)+(0.0103)Gln+(-0.1446)His+(0.0467)Thr+(-0.3603)Met+(0.1795)Phe
+(-0.1251)Trp;0.888,0.909,0.797,0.783,0.752,0.872,0.876,0.821,(-2.052
8)+(0.0623)Ser+(-0.1191)Asn+(-0.0671)Val+(-0.3897)Met+(0.2086)Ile+(0.
1559)Phe;0.887,0.911,0.794,0.768,0.802,0.853,0.801,0.806,(0.2218)+(0.
0663)Ser+(-0.1176)His+(0.0128)Pro+(-0.2882)Met+(0.1713)Phe+(-0.1063)T
rp;0.885,0.906,0.770,0.736,0.762,0.850,0.821,0.792,(-2.1269)+(0.0641)
Ser+(-0.1326)His+(-0.3520)Met+(0.1518)Ile+(-0.0632)Leu+(0.1622)Phe;0.
885,0.908,0.812,0.789,0.821,0.865,0.815,0.822,(0.6585)+(0.0637)Ser+(-
0.1191)His+(0.0234)Tyr+(-0.2771)Met+(0.1715)Phe+(-0.1085)Trp;0.884,0.
906,0.805,0.777,0.785,0.883,0.862,0.827,(2.1234)+(0.0509)Ser+(0.0590)
Tyr+(-0.0488)Val+(-0.3619)Met+(0.1995)Ile+(-0.1244)Trp;0.884,0.905,0.
810,0.795,0.815,0.858,0.807,0.819,(1.0354)+(0.0642)Ser+(-0.0298)Asn+(
-0.1127)His+(-0.2223)Met+(0.1737)Phe+(-0.1009)Trp;0.884,0.909,0.795,0
.777,0.745,0.877,0.887,0.821,(-3.0328)+(0.0510)Ser+(-0.0050)Ala+(-0.0
625)Val+(-0.4487)Met+(0.2107)Ile+(0.1401)Phe;0.883,0.907,0.791,0.769,
0.747,0.865,0.888,0.817,(-3.0576)+(0.0592)Ser+(-0.0056)Gly+(-0.0640)V
al+(-0.4783)Met+(0.2055)Ile+(0.1405)Phe;0.882,0.903,0.805,0.787,0.810
,0.855,0.804,0.814,(0.7088)+(0.0622)Ser+(-0.1177)His+(0.0009)Ala+(-0.
2474)Met+(0.1748)Phe+(-0.1026)Trp;0.882,0.906,0.804,0.785,0.812,0.858
,0.803,0.814,(0.7718)+(0.0609)Ser+(-0.1195)His+(-0.2422)Met+(0.0111)O
rn+(0.1700)Phe+(-0.1017)Trp;0.882,0.905,0.799,0.771,0.809,0.852,0.813

,0.811,(0.5016)+(0.0636)Ser+(-0.1239)His+(-0.2582)Met+(0.0196)Leu+(0.1610)Phe+(-0.1091)Trp;0.881,0.904,0.802,0.772,0.819,0.829,0.825,0.811,(4.6013)+(-0.1241)His+(0.0491)Thr+(-0.3361)Met+(0.0575)Ile+(0.1484)Phe+(-0.1339)Trp;0.881,0.904,0.805,0.787,0.811,0.852,0.806,0.814,(0.5622)+(0.0605)Ser+(-0.1208)His+(-0.2627)Met+(0.0083)Lys+(0.1749)Phe+(-0.1088)Trp;0.881,0.906,0.790,0.769,0.755,0.871,0.860,0.814,(-2.7772)+(0.0534)Ser+(-0.0583)Cit+(-0.0611)Val+(-0.4725)Met+(0.2025)Ile+(0.1483)Phe;0.881,0.903,0.805,0.784,0.812,0.856,0.807,0.815,(0.7259)+(0.0625)Ser+(-0.1217)His+(0.0048)Val+(-0.2448)Met+(0.1692)Phe+(-0.1064)Trp;0.881,0.902,0.798,0.784,0.760,0.859,0.869,0.818,(1.4747)+(-0.0872)Asn+(0.0451)Thr+(-0.0745)Val+(-0.4746)Met+(0.2248)Ile+(0.1468)Phe;0.880,0.904,0.810,0.792,0.812,0.857,0.817,0.819,(0.8210)+(0.0648)Ser+(-0.0022)Gly+(-0.1140)His+(-0.2398)Met+(0.1738)Phe+(-0.1039)Trp;0.880,0.905,0.809,0.792,0.817,0.858,0.800,0.817,(0.8548)+(0.0627)Ser+(-0.1030)His+(-0.0434)Cit+(-0.2268)Met+(0.1810)Phe+(-0.1120)Trp;0.880,0.902,0.804,0.783,0.783,0.880,0.849,0.824,(3.5594)+(0.0437)Ser+(-0.0504)Cit+(-0.0373)Val+(-0.2208)Met+(0.1758)Ile+(-0.1170)Trp;0.880,0.901,0.798,0.783,0.774,0.878,0.833,0.817,(3.5083)+(0.0341)Ser+(0.0217)Thr+(-0.0447)Val+(-0.3282)Met+(0.1883)Ile+(-0.1110)Trp;0.880,0.900,0.831,0.825,0.800,0.853,0.898,0.844,(1.6131)+(0.0057)Gln+(-0.0525)Val+(-0.3431)Met+(0.1808)Ile+(0.1304)Phe+(-0.1173)Trp;0.880,0.904,0.789,0.773,0.750,0.855,0.866,0.811,(1.3300)+(0.0530)Ser+(-0.1787)Asn+(-0.0502)Val+(0.1586)Ile+(0.1013)Phe+(-0.1205)Trp;0.879,0.903,0.784,0.768,0.742,0.863,0.861,0.808,(-3.3275)+(0.0510)Ser+(-0.0566)Val+(-0.4745)Met+(0.2287)Ile+(-0.0295)Leu+(0.1461)Phe;0.879,0.906,0.789,0.765,0.751,0.871,0.874,0.815,(-3.4771)+(0.0531)Ser+(0.0228)Tyr+(-0.0672)Val+(-0.5232)Met+(0.2117)Ile+(0.1378)Phe;0.878,0.903,0.801,0.777,0.813,0.835,0.817,0.811,(-1.3020)+(0.0581)Ser+(-0.0917)Cit+(-0.3118)Met+(0.0708)Ile+(0.1355)Phe+

(-0.1702)Trp;0.878,0.905,0.782,0.763,0.741,0.862,0.860,0.807,(-3.2369)+(0.0521)Ser+(0.0053)Pro+(-0.0643)Val+(-0.4981)Met+(0.1980)Ile+(0.1419)Phe;0.878,0.904,0.807,0.792,0.812,0.857,0.802,0.816,(0.8772)+(0.0632)Ser+(-0.1150)His+(-0.0075)Arg+(-0.2326)Met+(0.1756)Phe+(-0.1014)Trp;0.878,0.898,0.758,0.725,0.747,0.823,0.821,0.779,(1.1231)+(0.0472)Ser+(-0.1274)His+(0.1065)Ile+(-0.0390)Leu+(0.1044)Phe+(-0.1281)Trp;0.877,0.903,0.807,0.797,0.795,0.855,0.824,0.818,(1.0488)+(0.0524)Ser+(-0.1170)Asn+(0.0077)Gln+(-0.1332)His+(0.1277)Phe+(-0.1078)Trp;0.877,0.900,0.754,0.707,0.768,0.840,0.783,0.775,(-1.3972)+(0.0567)Ser+(-0.1699)His+(0.0295)Thr+(-0.4330)Met+(0.0672)Ile+(0.1506)Phe;0.877,0.904,0.782,0.761,0.740,0.865,0.866,0.808,(-2.9436)+(0.0528)Ser+(-0.0012)Gln+(-0.0642)Val+(-0.4767)Met+(0.2056)Ile+(0.1425)Phe;0.877,0.900,0.812,0.798,0.791,0.876,0.848,0.828,(6.5712)+(0.0336)Thr+(-0.0519)Cit+(-0.0438)Val+(-0.2732)Met+(0.1832)Ile+(-0.1144)Trp;0.877,0.903,0.819,0.801,0.795,0.849,0.894,0.835,(4.9139)+(-0.0543)His+(-0.0452)Val+(-0.2526)Met+(0.1687)Ile+(0.1312)Phe+(-0.0958)Trp;0.877,0.900,0.797,0.784,0.755,0.863,0.875,0.819,(0.3843)+(0.0393)Thr+(-0.0042)Ala+(-0.0697)Val+(-0.5055)Met+(0.2222)Ile+(0.1346)Phe;0.877,0.899,0.803,0.787,0.768,0.879,0.865,0.824,(3.2446)+(0.0417)Ser+(-0.0046)Ala+(-0.0407)Val+(-0.2260)Met+(0.1885)Ile+(-0.1079)Trp;0.877,0.896,0.806,0.783,0.828,0.827,0.804,0.811,(5.1385)+(-0.1262)His+(0.0512)Thr+(-0.3199)Met+(0.0154)Leu+(0.1582)Phe+(-0.1315)Trp;0.877,0.895,0.811,0.802,0.778,0.873,0.862,0.828,(6.3171)+(0.0318)Thr+(-0.0048)Ala+(-0.0466)Val+(-0.2706)Met+(0.1948)Ile+(-0.1108)Trp;0.877,0.901,0.770,0.737,0.753,0.844,0.841,0.794,(1.5645)+(0.0502)Ser+(-0.1331)His+(-0.0071)Ala+(0.0682)Ile+(0.1022)Phe+(-0.1303)Trp;0.877,0.904,0.787,0.767,0.744,0.867,0.870,0.812,(-3.2265)+(0.0513)Ser+(-0.0640)Val+(-0.4840)Met+(-0.0021)Orn+(0.2050)Ile+(0.1430)Phe;0.876,0.899,0.796,0.776,0.772,0.871,0.847,0.817,(3.1391)+(0.0431

)Ser+(0.0063)Pro+(-0.0420)Val+(-0.2707)Met+(0.1750)Ile+(-0.1119)Trp;0
.876,0.896,0.800,0.782,0.782,0.859,0.843,0.817,(7.1237)+(-0.0566)His+
(0.0346)Thr+(-0.0375)Val+(-0.2613)Met+(0.1722)Ile+(-0.0947)Trp;0.876,
0.900,0.789,0.772,0.802,0.820,0.788,0.796,(-1.7780)+(0.0469)Ser+(0.02
20)Thr+(-0.4185)Met+(0.0601)Ile+(0.1200)Phe+(-0.1623)Trp;0.876,0.900,
0.814,0.814,0.828,0.840,0.768,0.812,(0.3731)+(0.0463)Ser+(-0.0799)Asn
+(0.0272)Thr+(-0.3209)Met+(0.1461)Phe+(-0.1531)Trp;0.876,0.898,0.813,
0.799,0.830,0.833,0.801,0.816,(5.1380)+(-0.1164)His+(0.0508)Thr+(-0.0
016)Val+(-0.3109)Met+(0.1713)Phe+(-0.1240)Trp;0.876,0.898,0.781,0.748
,0.787,0.859,0.796,0.798,(4.0210)+(0.0445)Ser+(-0.1021)His+(0.0220)Th
r+(-0.2402)Met+(0.0941)Ile+(-0.1075)Trp;0.876,0.898,0.804,0.786,0.774
,0.882,0.856,0.824,(3.7945)+(0.0469)Ser+(-0.0611)Asn+(-0.0421)Val+(-0
.2051)Met+(0.1806)Ile+(-0.1024)Trp;0.876,0.899,0.803,0.783,0.772,0.87
1,0.868,0.824,(3.1847)+(0.0513)Ser+(-0.0059)Gly+(-0.0407)Val+(-0.2496
)Met+(0.1795)Ile+(-0.1110)Trp;0.876,0.898,0.815,0.806,0.785,0.847,0.8
82,0.830,(3.0411)+(0.0040)Gly+(-0.0542)Val+(-0.3097)Met+(0.1869)Ile+(
0.1305)Phe+(-0.1123)Trp;0.876,0.899,0.777,0.739,0.777,0.852,0.825,0.7
98,(-3.0222)+(0.0578)Ser+(0.0068)Gln+(-0.1683)His+(-0.3616)Met+(0.062
6)Ile+(0.1415)Phe;0.876,0.900,0.792,0.772,0.765,0.863,0.851,0.813,(0.
6553)+(0.0436)Thr+(-0.0620)Cit+(-0.0694)Val+(-0.5305)Met+(0.2201)Ile+
(0.1426)Phe;0.875,0.898,0.808,0.802,0.833,0.838,0.750,0.806,(0.0690)+
(0.0437)Ser+(0.0320)Thr+(-0.0895)Cit+(-0.3650)Met+(0.1686)Phe+(-0.170
4)Trp;0.875,0.898,0.810,0.795,0.828,0.831,0.799,0.813,(5.0416)+(0.007
7)Asn+(-0.1194)His+(0.0503)Thr+(-0.3161)Met+(0.1699)Phe+(-0.1255)Trp;
0.875,0.899,0.825,0.817,0.787,0.854,0.906,0.841,(3.9291)+(-0.0044)Ala
+(-0.0534)Val+(-0.2665)Met+(0.1920)Ile+(0.1248)Phe+(-0.1088)Trp;0.875
,0.897,0.794,0.778,0.763,0.875,0.845,0.815,(4.6063)+(0.0465)Ser+(-0.1
092)Asn+(-0.0635)Cit+(-0.0374)Val+(0.1596)Ile+(-0.1266)Trp;0.875,0.89

9,0.781,0.761,0.783,0.844,0.786,0.793,(2.7059)+(0.0543)Ser+(-0.1114)Asn+(-0.1258)His+(0.0185)Thr+(0.1304)Phe+(-0.1179)Trp;0.875,0.903,0.785,0.768,0.746,0.863,0.855,0.808,(-3.1220)+(0.0548)Ser+(-0.0162)Arg+(-0.0640)Val+(-0.4578)Met+(0.2053)Ile+(0.1464)Phe;0.875,0.898,0.806,0.793,0.824,0.832,0.786,0.809,(4.7360)+(0.0034)Gly+(-0.1236)His+(0.0487)Thr+(-0.3151)Met+(0.1724)Phe+(-0.1208)Trp;0.875,0.904,0.786,0.767,0.743,0.868,0.870,0.812,(-3.2133)+(0.0512)Ser+(-0.0641)Val+(-0.4828)Met+(-0.0003)Lys+(0.2046)Ile+(0.1423)Phe;0.875,0.895,0.792,0.776,0.753,0.867,0.864,0.815,(3.8125)+(0.0350)Ser+(-0.0086)Ala+(-0.0759)Cit+(-0.0342)Val+(0.1732)Ile+(-0.1444)Trp;0.875,0.898,0.808,0.792,0.825,0.827,0.799,0.811,(5.0167)+(-0.1163)His+(0.0493)Thr+(0.0042)Pro+(-0.3173)Met+(0.1656)Phe+(-0.1257)Trp;0.874,0.892,0.811,0.795,0.789,0.870,0.856,0.827,(5.8798)+(0.0306)Thr+(0.0275)Tyr+(-0.0494)Val+(-0.3312)Met+(0.1907)Ile+(-0.1191)Trp;0.874,0.898,0.811,0.797,0.829,0.831,0.799,0.814,(5.1472)+(-0.1179)His+(0.0507)Thr+(-0.0017)Tyr+(-0.3085)Met+(0.1695)Phe+(-0.1249)Trp;0.874,0.898,0.788,0.761,0.770,0.865,0.842,0.810,(3.8623)+(0.0473)Ser+(-0.0629)His+(-0.0301)Val+(-0.2091)Met+(0.1648)Ile+(-0.0919)Trp;0.874,0.898,0.792,0.790,0.806,0.814,0.751,0.790,(-1.0344)+(0.0456)Ser+(0.0230)Thr+(0.0098)Pro+(-0.4138)Met+(0.1413)Phe+(-0.1577)Trp;0.874,0.895,0.788,0.774,0.751,0.854,0.859,0.809,(0.0531)+(0.0005)Gly+(0.0394)Thr+(-0.0716)Val+(-0.5394)Met+(0.2193)Ile+(0.1383)Phe;0.874,0.897,0.812,0.798,0.830,0.831,0.801,0.815,(5.1552)+(-0.1177)His+(0.0509)Thr+(-0.3113)Met+(-0.0016)Orn+(0.1700)Phe+(-0.1256)Trp;0.874,0.896,0.754,0.722,0.735,0.823,0.828,0.777,(1.3999)+(0.0456)Ser+(-0.1187)His+(-0.0254)Val+(0.1124)Ile+(0.1002)Phe+(-0.1271)Trp;0.874,0.895,0.768,0.727,0.765,0.852,0.820,0

.791,(-1.5196)+(0.0660)Ser+(-0.1481)His+(-0.0042)Ala+(-0.3256)Met+(0.0732)Ile+(0.1382)Phe;0.873,0.897,0.812,0.814,0.827,0.835,0.756,0.808,

(-0.1619)+(0.0395)Ser+(0.0286)Thr+(-0.0081)Val+(-0.3801)Met+(0.1583)Phe+(-0.1520)Trp;0.873,0.895,0.802,0.787,0.773,0.876,0.850,0.821,(3.6154)+(0.0371)Ser+(-0.0090)Ala+(-0.0871)Cit+(0.1770)Ile+(-0.0599)Leu+(-0.1475)Trp;0.873,0.897,0.812,0.798,0.829,0.832,0.800,0.815,(5.1575)+(-0.1177)His+(0.0505)Thr+(-0.0002)Ala+(-0.3093)Met+(0.1691)Phe+(-0.1253)Trp;0.873,0.896,0.799,0.783,0.771,0.872,0.851,0.819,(3.0224)+(0.0410)Ser+(-0.0428)Val+(-0.2747)Met+(0.0061)Lys+(0.1815)Ile+(-0.1138)Trp;0.873,0.897,0.810,0.795,0.829,0.825,0.801,0.812,(4.9661)+(-0.1202)His+(0.0488)Thr+(-0.3182)Met+(0.0049)Lys+(0.1679)Phe+(-0.1273)Trp;0.873,0.896,0.821,0.812,0.790,0.844,0.896,0.836,(3.8662)+(-0.0081)Asn+(-0.0538)Val+(-0.2881)Met+(0.1849)Ile+(0.1257)Phe+(-0.1096)Trp;0.873,0.897,0.811,0.799,0.833,0.830,0.787,0.812,(5.5816)+(-0.1144)His+(0.0550)Thr+(-0.0157)Arg+(-0.3019)Met+(0.1705)Phe+(-0.1270)Trp;0.873,0.896,0.801,0.784,0.773,0.874,0.851,0.821,(2.9282)+(0.0409)Ser+(0.0009)Gln+(-0.0410)Val+(-0.2589)Met+(0.1794)Ile+(-0.1121)Trp;0.873,0.898,0.818,0.808,0.788,0.842,0.891,0.832,(3.7193)+(0.0050)Pro+(-0.0540)Val+(-0.3080)Met+(0.1806)Ile+(0.1269)Phe+(-0.1125)Trp;0.873,0.900,0.837,0.818,0.833,0.859,0.882,0.848,(2.0349)+(0.0121)Gln+(-0.1284)His+(-0.2378)Met+(0.0584)Ile+(0.1200)Phe+(-0.1165)Trp;0.873,0.894,0.796,0.777,0.771,0.871,0.843,0.816,(3.1019)+(0.0405)Ser+(-0.0430)Val+(-0.2624)Met+(0.0147)Orn+(0.1798)Ile+(-0.1110)Trp;0.873,0.898,0.769,0.735,0.765,0.837,0.822,0.790,(1.7038)+(0.0588)Ser+(-0.0844)Asn+(-0.1247)His+(0.0537)Ile+(0.1038)Phe+(-0.1227)Trp;0.872,0.895,0.789,0.774,0.751,0.853,0.860,0.809,(0.1187)+(0.0392)Thr+(-0.0702)Val+(-0.5356)Met+(0.2227)Ile+(-0.0048)Leu+(0.1384)Phe;0.872,0.897,0.808,0.807,0.808,0.826,0.795,0.809,(-0.3872)+(0.0586)Ser+(-0.0695)Asn+(0.0110)Pro+(-0.2845)Met+(0.1316)Phe+(-0.1409)Trp;0.872,0.897,0.818,0.807,0.789,0.844,0.891,0.833,(3.6639)+(-0.0543)Val+(-0.2976)Met+(0.0093)Orn+(0.1841)Ile+(0.1213)Phe+(-0.110

0)Trp;0.872,0.892,0.805,0.794,0.778,0.865,0.849,0.821,(6.2184)+(-0.00
09)Gly+(0.0321)Thr+(-0.0472)Val+(-0.2963)Met+(0.1870)Ile+(-0.1125)Trp
;0.872,0.896,0.789,0.773,0.751,0.854,0.860,0.810,(0.1211)+(0.0396)Thr
+(0.0010)Pro+(-0.0716)Val+(-0.5408)Met+(0.2183)Ile+(0.1378)Phe;0.872,
0.898,0.791,0.775,0.753,0.853,0.864,0.811,(0.1174)+(0.0429)Thr+(-0.07
17)Val+(-0.5487)Met+(-0.0139)Orn+(0.2238)Ile+(0.1444)Phe;0.872,0.895,
0.804,0.803,0.823,0.830,0.751,0.802,(-0.3855)+(0.0418)Ser+(0.0273)Thr
+(-0.3721)Met+(-0.0047)Lys+(0.1470)Phe+(-0.1560)Trp;0.872,0.896,0.792
,0.778,0.754,0.855,0.861,0.812,(-0.4936)+(0.0017)Gln+(0.0386)Thr+(-0.
0713)Val+(-0.5505)Met+(0.2181)Ile+(0.1387)Phe;0.872,0.892,0.810,0.801
,0.783,0.867,0.850,0.825,(5.1257)+(0.0031)Gln+(0.0295)Thr+(-0.0462)Va
l+(-0.3115)Met+(0.1835)Ile+(-0.1169)Trp;0.872,0.897,0.784,0.770,0.755
,0.853,0.836,0.803,(0.6618)+(0.0508)Thr+(-0.0287)Arg+(-0.0751)Val+(-0
.5262)Met+(0.2298)Ile+(0.1475)Phe;0.872,0.893,0.823,0.823,0.831,0.842
,0.795,0.823,(0.7735)+(0.0580)Ser+(-0.0672)Asn+(-0.0788)Cit+(-0.2115)
Met+(0.1522)Phe+(-0.1461)Trp;0.872,0.895,0.804,0.805,0.831,0.829,0.72
6,0.798,(-0.0447)+(0.0437)Ser+(0.0341)Thr+(-0.0257)Arg+(-0.3805)Met+(
0.1530)Phe+(-0.1579)Trp;0.871,0.893,0.767,0.741,0.747,0.824,0.833,0.7
87,(0.6532)+(0.0399)Ser+(-0.1010)Cit+(-0.0387)Val+(0.1447)Ile+(0.0903
)Phe+(-0.1830)Trp;0.871,0.895,0.801,0.789,0.816,0.826,0.782,0.803,(-0
.4540)+(0.0581)Ser+(-0.0898)Cit+(0.0143)Pro+(-0.3145)Met+(0.1525)Phe+
(-0.1610)Trp;0.871,0.894,0.798,0.781,0.770,0.870,0.848,0.817,(3.1438)
+(0.0420)Ser+(-0.0384)Val+(-0.2517)Met+(0.1878)Ile+(-0.0099)Leu+(-0.1
101)Trp;0.871,0.895,0.820,0.810,0.790,0.843,0.890,0.833,(3.6738)+(-0.
0474)Val+(-0.2911)Met+(0.1986)Ile+(-0.0204)Leu+(0.1266)Phe+(-0.1089)T
rp;0.871,0.897,0.818,0.811,0.786,0.839,0.890,0.832,(3.2462)+(-0.0581)
Val+(-0.3358)Met+(0.0125)Lys+(0.1891)Ile+(0.1268)Phe+(-0.1163)Trp;0.8
71,0.895,0.762,0.726,0.756,0.827,0.820,0.782,(0.8269)+(0.0429)Ser+(0.

0039)Gln+(-0.1493)His+(0.0532)Ile+(0.0925)Phe+(-0.1345)Trp;0.871,0.897,0.801,0.802,0.797,0.825,0.786,0.803,(-0.8865)+(0.0535)Ser+(0.0137)Pro+(-0.0091)Val+(-0.3360)Met+(0.1445)Phe+(-0.1393)Trp;0.871,0.892,0.810,0.800,0.783,0.867,0.851,0.825,(6.8120)+(-0.0424)Asn+(0.0335)Thr+(-0.0480)Val+(-0.2646)Met+(0.1872)Ile+(-0.1073)Trp;0.871,0.895,0.795,0.779,0.786,0.855,0.811,0.808,(2.4257)+(0.0586)Ser+(-0.0850)Asn+(-0.1155)His+(-0.0026)Ala+(0.1346)Phe+(-0.1062)Trp;0.871,0.888,0.811,0.791,0.810,0.856,0.834,0.823,(5.0596)+(0.0087)Gln+(-0.1134)His+(0.0284)Thr+(-0.2241)Met+(0.0791)Ile+(-0.1159)Trp;0.871,0.897,0.815,0.798,0.841,0.833,0.792,0.816,(5.2824)+(-0.1036)His+(0.0517)Thr+(-0.0508)Cit+(-0.2946)Met+(0.1765)Phe+(-0.1356)Trp;0.871,0.895,0.756,0.716,0.752,0.827,0.816,0.778,(1.5449)+(0.0511)Ser+(-0.1339)His+(-0.0108)Lys+(0.0614)Ile+(0.1007)Phe+(-0.1260)Trp;0.871,0.897,0.797,0.789,0.772,0.840,0.837,0.810,(0.8635)+(0.0485)Ser+(-0.1466)Asn+(0.1404)Ile+(-0.0731)Leu+(0.0917)Phe+(-0.1395)Trp;0.871,0.900,0.825,0.810,0.799,0.852,0.900,0.840,(3.6620)+(0.0189)Tyr+(-0.0547)Val+(-0.3223)Met+(0.1869)Ile+(0.1221)Phe+(-0.1142)Trp;0.871,0.898,0.802,0.787,0.804,0.828,0.819,0.810,(-1.1859)+(0.0587)Ser+(-0.0576)Asn+(-0.2971)Met+(0.0598)Ile+(0.1109)Phe+(-0.1476)Trp;0.871,0.896,0.787,0.774,0.749,0.851,0.858,0.808,(0.1420)+(0.0403)Thr+(-0.0082)Tyr+(-0.0709)Val+(-0.5292)Met+(0.2182)Ile+(0.1402)Phe;0.870,0.895,0.784,0.741,0.795,0.857,0.820,0.803,(2.8514)+(0.0578)Ser+(-0.0991)His+(0.0424)Tyr+(-0.2438)Met+(0.0940)Ile+(-0.1184)Trp;0.870,0.894,0.804,0.802,0.796,0.833,0.806,0.809,(-0.9039)+(0.0533)Ser+(-0.0048)Ala+(0.0145)Pro+(-0.3144)Met+(0.1326)Phe+(-0.1433)Trp;0.870,0.894,0.786,0.758,0.779,0.860,0.821,0.805,(3.6476)+(0.0495)Ser+(-0.0805)His+(-0.1772)Met+(0.1341)Ile+(-0.0304)Leu+(-0.1014)Trp;0.870,0.890,0.805,0.795,0.779,0.864,0.844,0.821,(5.9503)+(0.0300)Thr+(-0.0479)Val+(-0.3079)Met+(0.0045)Lys+(0.1867)Ile+(-0.1141)Trp;0.870,0.896,0.756,

0.713,0.762,0.830,0.803,0.777,(0.9717)+(0.0559)Ser+(-0.1185)His+(-0.0763)Cit+(0.0654)Ile+(0.1134)Phe+(-0.1581)Trp;0.870,0.897,0.813,0.806,0.811,0.826,0.828,0.818,(2.2784)+(0.0315)Thr+(-0.3586)Met+(0.1475)Ile+(-0.0720)Leu+(0.1298)Phe+(-0.1440)Trp;0.870,0.892,0.804,0.793,0.779,0.863,0.847,0.820,(6.0995)+(0.0325)Thr+(-0.0501)Val+(-0.3037)Met+(0.1815)Ile+(0.0092)Leu+(-0.1132)Trp;0.870,0.895,0.816,0.810,0.829,0.822,0.798,0.815,(-0.0766)+(0.0525)Ser+(-0.0089)Gly+(0.0286)Thr+(-0.3786)Met+(0.1447)Phe+(-0.1642)Trp;0.870,0.895,0.772,0.751,0.758,0.841,0.807,0.789,(1.9594)+(0.0504)Ser+(-0.1286)His+(-0.0061)Ala+(0.0101)Pro+(0.1227)Phe+(-0.1212)Trp;0.870,0.894,0.797,0.771,0.790,0.864,0.830,0.814,(2.4540)+(0.0435)Ser+(0.0062)Gln+(-0.1068)His+(-0.1908)Met+(0.0901)Ile+(-0.1059)Trp;0.870,0.891,0.803,0.793,0.777,0.863,0.843,0.819,(6.1040)+(0.0310)Thr+(0.0023)Pro+(-0.0473)Val+(-0.3002)Met+(0.1846)Ile+(-0.1123)Trp;0.870,0.896,0.802,0.784,0.795,0.839,0.834,0.813,(-1.5943)+(0.0537)Ser+(-0.0051)Ala+(-0.3108)Met+(0.0703)Ile+(0.1090)Phe+(-0.1489)Trp;0.869,0.897,0.803,0.784,0.797,0.875,0.813,0.817,(3.1790)+(0.0447)Ser+(-0.0674)Cit+(-0.1848)Met+(0.1607)Ile+(-0.0544)Leu+(-0.1324)Trp;0.869,0.893,0.826,0.817,0.824,0.840,0.846,0.832,(4.0806)+(-0.0912)Asn+(0.0098)Gln+(-0.1333)His+(0.0236)Thr+(0.1047)Phe+(-0.1234)Trp;0.869,0.894,0.829,0.834,0.826,0.850,0.808,0.830,(0.3755)+(0.0547)Ser+(-0.0756)Asn+(-0.0061)Val+(-0.2286)Met+(0.1454)Phe+(-0.1318)Trp;0.869,0.893,0.790,0.777,0.776,0.846,0.816,0.804,(1.2461)+(0.0423)Ser+(0.0050)Gln+(-0.1418)His+(-0.0035)Ala+(0.1239)Phe+(-0.1183)Trp;0.869,0.895,0.780,0.759,0.780,0.836,0.796,0.793,(2.1699)+(0.0590)Ser+(-0.0907)Asn+(-0.1184)His+(0.0057)Pro+(0.1246)Phe+(-0.1119)Trp;0.869,0.896,0.821,0.811,0.790,0.844,0.894,0.835,(3.8316)+(-0.0033)Arg+(-0.0537)Val+(-0.2892)Met+(0.1854)Ile+(0.1263)Phe+(-0.1106)Trp;0.869,0.896,0.788,0.772,0.751,0.855,0.859,0.809,(0.2904)+(0.0414)Thr+(-0.0711)Val+(-0.5313)Met+(-

0.0041)Lys+(0.2202)Ile+(0.1389)Phe;0.869,0.892,0.750,0.709,0.750,0.818,0.807,0.771,(1.4934)+(0.0466)Ser+(-0.1422)His+(0.0045)Thr+(0.0540)Ile+(0.0946)Phe+(-0.1361)Trp;0.869,0.893,0.800,0.783,0.789,0.871,0.815,0.815,(4.1082)+(0.0451)Ser+(-0.0842)Asn+(-0.0783)Cit+(0.1465)Ile+(-0.0537)Leu+(-0.1444)Trp;0.869,0.890,0.770,0.742,0.747,0.875,0.816,0.795,(3.1785)+(0.0381)Ser+(-0.0850)His+(0.0248)Thr+(-0.0407)Val+(-0.3478)Met+(0.1847)Ile;0.869,0.894,0.805,0.805,0.823,0.824,0.753,0.801,(-0.7569)+(0.0403)Ser+(0.0008)Gln+(0.0252)Thr+(-0.3816)Met+(0.1444)Phe+(-0.1594)Trp;0.869,0.894,0.780,0.761,0.787,0.844,0.769,0.790,(-1.5917)+(0.0454)Ser+(0.0066)Gln+(-0.1764)His+(0.0279)Thr+(-0.3912)Met+(0.1740)Phe;0.869,0.895,0.809,0.809,0.822,0.835,0.763,0.808,(-0.3426)+(0.0405)Ser+(0.0264)Thr+(-0.0022)Ala+(-0.3665)Met+(0.1466)Phe+(-0.1574)Trp;0.869,0.894,0.805,0.804,0.823,0.823,0.754,0.801,(-0.4795)+(0.0413)Ser+(0.0282)Thr+(-0.3834)Met+(-0.0111)Orn+(0.1519)Phe+(-0.1603)Trp;0.869,0.895,0.787,0.769,0.786,0.842,0.800,0.799,(2.3090)+(0.0582)Ser+(-0.0870)Asn+(-0.1185)His+(0.0006)Val+(0.1287)Phe+(-0.1090)Trp;0.869,0.893,0.817,0.800,0.786,0.865,0.892,0.836,(0.5258)+(0.0100)Gln+(-0.0985)His+(-0.0458)Val+(-0.3722)Met+(0.1631)Ile+(0.1351)Phe;0.869,0.890,0.824,0.829,0.825,0.843,0.795,0.823,(0.2250)+(0.0564)Ser+(-0.0653)Asn+(-0.0101)Arg+(-0.2300)Met+(0.1366)Phe+(-0.1375)Trp;0.869,0.901,0.824,0.809,0.797,0.854,0.898,0.840,(4.1844)+(-0.0609)Cit+(-0.0510)Val+(-0.2579)Met+(0.1827)Ile+(0.1353)Phe+(-0.1182)Trp;0.868,0.895,0.788,0.771,0.791,0.812,0.809,0.796,(-1.9994)+(0.0558)Ser+(0.0057)Pro+(-0.3633)Met+(0.0566)Ile+(0.1109)Phe+(-0.1533)Trp;0.868,0.892,0.754,0.707,0.765,0.838,0.798,0.777,(-1.9080)+(0.0670)Ser+(-0.1511)His+(0.0053)Pro+(-0.3599)Met+(0.0585)Ile+(0.1410)Phe;0.868,0.895,0.796,0.780,0.770,0.872,0.842,0.816,(3.3463)+(0.0444)Ser+(-0.0119)Arg+(-0.0417)Val+(-0.2311)Met+(0.1832)Ile+(-0.1109)Trp;0.868,0.891,0.829,0.827,0.827,0.837,0.833,0.

831,(0.3991)+(0.0648)Ser+(-0.0667)Asn+(-0.0068)Gly+(-0.2386)Met+(0.1341)Phe+(-0.1412)Trp;0.868,0.896,0.801,0.781,0.802,0.817,0.839,0.810,(-1.5767)+(0.0643)Ser+(-0.0067)Gly+(-0.3335)Met+(0.0613)Ile+(0.1087)Phe+(-0.1557)Trp;0.868,0.894,0.811,0.799,0.833,0.844,0.772,0.812,(0.0980)+(0.0504)Ser+(-0.1092)Cit+(-0.2618)Met+(0.0359)Orn+(0.1442)Phe+(-0.1602)Trp;0.868,0.889,0.789,0.764,0.779,0.848,0.835,0.806,(3.2684)+(0.0388)Ser+(-0.0118)Ala+(-0.1003)Cit+(0.0118)Pro+(0.0864)Ile+(-0.1745)Trp;0.868,0.896,0.785,0.765,0.784,0.845,0.800,0.798,(2.3402)+(0.0569)Ser+(-0.0913)Asn+(-0.1196)His+(0.0126)Orn+(0.1246)Phe+(-0.1080)Trp;0.868,0.891,0.801,0.792,0.776,0.865,0.833,0.817,(6.7713)+(0.0382)Thr+(-0.0212)Arg+(-0.0496)Val+(-0.2765)Met+(0.1948)Ile+(-0.1122)Trp;0.868,0.891,0.826,0.830,0.822,0.846,0.808,0.826,(0.2060)+(0.0545)Ser+(-0.0705)Asn+(-0.0012)Ala+(-0.2287)Met+(0.1360)Phe+(-0.1381)Trp;0.868,0.892,0.782,0.772,0.729,0.838,0.877,0.804,(0.9936)+(0.0306)Ser+(-0.0102)Ala+(-0.0445)Val+(0.1636)Ile+(0.0800)Phe+(-0.1555)Trp;0.868,0.892,0.777,0.753,0.782,0.842,0.783,0.790,(-2.4869)+(0.0571)Ser+(0.0073)Gln+(-0.1658)His+(0.0106)Pro+(-0.3511)Met+(0.1619)Phe;0.868,0.890,0.802,0.791,0.778,0.860,0.842,0.818,(5.9836)+(0.0294)Thr+(-0.0480)Val+(-0.2963)Met+(0.0107)Orn+(0.1855)Ile+(-0.1124)Trp;0.868,0.895,0.805,0.799,0.804,0.815,0.815,0.808,(-0.8311)+(0.0652)Ser+(-0.0078)Gly+(0.0120)Pro+(-0.3325)Met+(0.1286)Phe+(-0.1503)Trp;0.868,0.891,0.779,0.744,0.782,0.851,0.813,0.797,(3.4931)+(0.0524)Ser+(-0.0928)His+(0.0053)Pro+(-0.1883)Met+(0.0860)Ile+(-0.1064)Trp;0.868,0.895,0.832,0.839,0.828,0.844,0.815,0.831,(-0.6892)+(0.0513)Ser+(-0.0838)Asn+(0.0039)Gln+(-0.2447)Met+(0.1330)Phe+(-0.1425)Trp;0.868,0.890,0.796,0.783,0.745,0.879,0.874,0.820,(4.2472)+(0.0428)Ser+(-0.1132)Asn+(-0.0063)Ala+(-0.0417)Val+(0.1750)Ile+(-0.1087)Trp;0.868,0.891,0.761,0.716,0.775,0.842,0.796,0.782,(-1.6262)+(0.0675)Ser+(-0.1412)Hi

s+(-0.0439)Cit+(-0.3459)Met+(0.0672)Ile+(0.1438)Phe;0.868,0.892,0.767,0.744,0.769,0.829,0.778,0.780,(2.2937)+(0.0451)Ser+(-0.1366)His+(0.0115)Thr+(-0.0066)Lys+(0.1247)Phe+(-0.1208)Trp;0.868,0.894,0.774,0.754,0.767,0.840,0.795,0.789,(2.2525)+(0.0447)Ser+(-0.1350)His+(0.0112)Thr+(-0.0038)Ala+(0.1265)Phe+(-0.1230)Trp;0.867,0.891,0.757,0.715,0.756,0.819,0.825,0.779,(1.5060)+(0.0542)Ser+(-0.0038)Gly+(-0.1366)His+(0.0553)Ile+(0.0939)Phe+(-0.1360)Trp;0.867,0.893,0.780,0.755,0.782,0.838,0.802,0.794,(2.2478)+(0.0581)Ser+(-0.0838)Asn+(-0.1233)His+(0.0115)Leu+(0.1186)Phe+(-0.1141)Trp;0.867,0.889,0.777,0.753,0.774,0.841,0.804,0.793,(2.0388)+(0.0493)Ser+(-0.1334)His+(-0.0039)Ala+(0.0052)Val+(0.1209)Phe+(-0.1200)Trp;0.867,0.891,0.753,0.722,0.772,0.831,0.741,0.767,(-0.8189)+(0.0563)Ser+(-0.1611)His+(0.0269)Thr+(0.0098)Pro+(-0.4047)Met+(0.1707)Phe;0.867,0.895,0.803,0.802,0.823,0.824,0.751,0.800,(-0.5658)+(0.0414)Ser+(0.0253)Thr+(0.0018)Tyr+(-0.3805)Met+(0.1444)Phe+(-0.1591)Trp;0.867,0.895,0.792,0.772,0.789,0.843,0.814,0.804,(2.4275)+(0.0621)Ser+(-0.0859)Asn+(-0.0031)Gly+(-0.1151)His+(0.1283)Phe+(-0.1105)Trp;0.867,0.891,0.752,0.712,0.751,0.820,0.811,0.774,(1.4074)+(0.0485)Ser+(-0.1393)His+(-0.0010)Pro+(0.0563)Ile+(0.0949)Phe+(-0.1333)Trp;0.867,0.893,0.794,0.778,0.794,0.817,0.820,0.802,(-1.9288)+(0.0564)Ser+(-0.3435)Met+(-0.0160)Orn+(0.0684)Ile+(0.1169)Phe+(-0.1541)Trp;0.867,0.896,0.793,0.775,0.794,0.850,0.794,0.803,(2.3480)+(0.0613)Ser+(-0.0851)Asn+(-0.1000)His+(-0.0562)Cit+(0.1417)Phe+(-0.1226)Trp;0.867,0.891,0.770,0.749,0.760,0.826,0.805,0.785,(-0.0684)+(0.0424)Ser+(-0.1171)Cit+(0.1614)Ile+(-0.0751)Leu+(0.1005)Phe+(-0.1877)Trp;0.867,0.890,0.821,0.824,0.821,0.837,0.803,0.821,(0.0351)+(0.0542)Ser+(-0.0729)Asn+(-0.2437)Met+(0.0031)Lys+(0.1343)Phe+(-0.1420)Trp;0.867,0.891,0.758,0.713,0.766,0.840,0.801,0.780,(-1.6511)+(0.0665)Ser+(-0.0078)Asn+(-0.1508)His+(-0.3388)Met+(0.0649)Ile+(0.1399)Phe;0.867,0.888,0.790,0.757,0.7

99,0.838,0.824,0.804,(0.1367)+(0.0102)Gln+(-0.1786)His+(0.0394)Thr+(-0.4136)Met+(0.0524)Ile+(0.1319)Phe;0.867,0.892,0.801,0.786,0.785,0.856,0.836,0.816,(2.6511)+(0.0525)Ser+(-0.0066)Gly+(-0.2160)Met+(0.1593)Ile+(-0.0571)Leu+(-0.1317)Trp;0.867,0.892,0.774,0.753,0.772,0.828,0.794,0.787,(1.3292)+(0.0396)Ser+(0.0043)Gln+(-0.1484)His+(0.0066)Thr+(0.1172)Phe+(-0.1250)Trp;0.867,0.893,0.800,0.798,0.806,0.823,0.774,0.800,(-0.8880)+(0.0556)Ser+(-0.0141)Arg+(0.0115)Pro+(-0.3189)Met+(0.1333)Phe+(-0.1456)Trp;0.867,0.891,0.758,0.711,0.766,0.840,0.804,0.780,(-1.7131)+(0.0671)Ser+(-0.0009)Gly+(-0.1512)His+(-0.3443)Met+(0.0654)Ile+(0.1392)Phe;0.866,0.893,0.787,0.769,0.784,0.842,0.800,0.799,(2.2796)+(0.0581)Ser+(-0.0901)Asn+(-0.1183)His+(0.0017)Lys+(0.1287)Phe+(-0.1095)Trp;0.866,0.889,0.761,0.734,0.766,0.822,0.778,0.775,(2.0257)+(0.0449)Ser+(-0.1406)His+(0.0087)Thr+(0.0023)Val+(0.1167)Phe+(-0.1265)Trp;0.866,0.893,0.758,0.714,0.766,0.840,0.800,0.780,(-1.6271)+(0.0678)Ser+(-0.1484)His+(-0.3320)Met+(-0.0062)Lys+(0.0684)Ile+(0.1411)Phe;0.866,0.890,0.787,0.757,0.780,0.862,0.828,0.807,(3.6922)+(0.0512)Ser+(-0.0915)His+(-0.0033)Ala+(-0.1574)Met+(0.0972)Ile+(-0.1026)Trp;0.866,0.891,0.795,0.792,0.797,0.815,0.784,0.797,(-1.2230)+(0.0532)Ser+(0.0113)Pro+(-0.3405)Met+(0.0012)Lys+(0.1306)Phe+(-0.1485)Trp;0.866,0.892,0.777,0.753,0.772,0.841,0.806,0.793,(2.0937)+(0.0472)Ser+(-0.1310)His+(-0.0036)Ala+(0.0119)Orn+(0.1224)Phe+(-0.1156)Trp;0.866,0.894,0.840,0.838,0.836,0.858,0.841,0.843,(2.0299)+(0.0044)Gly+(0.0119)Gln+(-0.1319)His+(-0.2072)Met+(0.1476)Phe+(-0.1045)Trp;0.866,0.892,0.784,0.767,0.776,0.836,0.805,0.796,(1.2252)+(0.0426)Ser+(0.0051)Gln+(-0.1436)His+(-0.0054)Lys+(0.1216)Phe+(-0.1167)Trp;0.866,0.890,0.785,0.751,0.791,0.860,0.806,0.802,(3.7885)+(0.0526)Ser+(-0.0815)His+(-0.0435)Cit+(-0.1576)Met+(0.0935)Ile+(-0.1113)Trp;0.866,0.892,0.791,0.775,0.793,0.844,0.791,0.801,(2.4370)+(0.0597)Ser+(-0.0754)Asn+(-0.1162)His+(-0.0134)Arg+

(0.1334)Phe+(-0.1076)Trp;0.866,0.888,0.801,0.785,0.785,0.825,0.862,0.814,(3.1208)+(0.0076)Gln+(-0.1219)His+(0.0989)Ile+(-0.0386)Leu+(0.0840)Phe+(-0.1265)Trp;0.866,0.894,0.793,0.776,0.795,0.823,0.813,0.802,(-1.7476)+(0.0555)Ser+(-0.3303)Met+(-0.0055)Lys+(0.0653)Ile+(0.1103)Phe+(-0.1483)Trp;0.866,0.895,0.757,0.721,0.760,0.828,0.798,0.777,(1.4925)+(0.0554)Ser+(-0.1343)His+(-0.0241)Arg+(0.0596)Ile+(0.1037)Phe+(-0.1320)Trp;0.866,0.891,0.795,0.773,0.814,0.856,0.771,0.803,(3.0257)+(0.0414)Ser+(0.0176)Thr+(-0.0784)Cit+(-0.2548)Met+(0.0840)Ile+(-0.1531)Trp;0.866,0.890,0.776,0.753,0.775,0.830,0.802,0.790,(1.0534)+(0.0417)Ser+(0.0049)Gln+(-0.1499)His+(0.0040)Val+(0.1119)Phe+(-0.1245)Trp;0.866,0.889,0.817,0.800,0.799,0.851,0.876,0.832,(3.5835)+(0.0088)Gln+(-0.1319)His+(-0.0062)Ala+(0.0581)Ile+(0.0803)Phe+(-0.1303)Trp;0.866,0.889,0.771,0.744,0.770,0.828,0.806,0.787,(1.0660)+(0.0421)Ser+(0.0048)Gln+(-0.1523)His+(0.0147)Leu+(0.1045)Phe+(-0.1284)Trp;0.866,0.890,0.825,0.825,0.832,0.841,0.795,0.823,(-0.8342)+(0.0482)Ser+(0.0037)Gln+(-0.0860)Cit+(-0.2778)Met+(0.1531)Phe+(-0.1566)Trp;0.866,0.895,0.843,0.838,0.841,0.846,0.859,0.846,(2.3031)+(0.0124)Gln+(-0.1264)His+(0.0070)Pro+(-0.2170)Met+(0.1381)Phe+(-0.1083)Trp;0.866,0.889,0.804,0.792,0.779,0.871,0.839,0.821,(2.8020)+(0.0416)Ser+(-0.0058)Ala+(-0.1867)Met+(0.1731)Ile+(-0.0597)Leu+(-0.1252)Trp;0.865,0.888,0.784,0.750,0.784,0.855,0.826,0.804,(3.5909)+(0.0564)Ser+(-0.0033)Gly+(-0.0910)His+(-0.1714)Met+(0.0910)Ile+(-0.1063)Trp;0.865,0.893,0.794,0.779,0.798,0.821,0.808,0.802,(-1.6680)+(0.0575)Ser+(-0.0151)Arg+(-0.3253)Met+(0.0635)Ile+(0.1129)Phe+(-0.1509)Trp;0.865,0.889,0.781,0.747,0.782,0.854,0.815,0.800,(3.5323)+(0.0511)Ser+(-0.0958)His+(-0.1835)Met+(0.0037)Lys+(0.0906)Ile+(-0.1071)Trp;0.865,0.892,0.798,0.797,0.799,0.816,0.787,0.800,(-1.4158)+(0.0521)Ser+(0.0010)Gln+(0.0110)Pro+(-0.3405)Met+(0.1305)Phe+(-0.1484)Trp;0.865,0.895,0.769,0.749,0.778,0.834,0.754,0.779,(2.5338)

+(0.0471)Ser+(-0.1358)His+(0.0176)Thr+(-0.0274)Arg+(0.1296)Phe+(-0.1266)Trp;0.865,0.891,0.804,0.790,0.766,0.843,0.894,0.823,(5.5204)+(-0.0756)His+(-0.0068)Ala+(-0.0341)Val+(0.1401)Ile+(0.0910)Phe+(-0.1166)Trp;0.865,0.891,0.757,0.713,0.765,0.840,0.801,0.779,(-1.7494)+(0.0664)Ser+(-0.1512)His+(-0.3463)Met+(-0.0033)Orn+(0.0665)Ile+(0.1411)Phe;0.865,0.890,0.773,0.745,0.768,0.840,0.810,0.791,(2.0372)+(0.0496)Ser+(-0.1359)His+(-0.0044)Ala+(0.0178)Leu+(0.1135)Phe+(-0.1237)Trp;0.865,0.895,0.795,0.773,0.801,0.823,0.819,0.804,(-2.0581)+(0.0556)Ser+(0.0151)Tyr+(-0.3670)Met+(0.0633)Ile+(0.1059)Phe+(-0.1563)Trp;0.865,0.890,0.758,0.731,0.762,0.823,0.776,0.773,(1.9326)+(0.0456)Ser+(-0.1383)His+(0.0072)Thr+(0.0036)Pro+(0.1169)Phe+(-0.1262)Trp;0.865,0.889,0.791,0.769,0.797,0.826,0.809,0.800,(1.3487)+(0.0550)Ser+(-0.1235)Asn+(-0.1030)Cit+(0.0544)Ile+(0.0926)Phe+(-0.1805)Trp;0.865,0.890,0.771,0.750,0.766,0.827,0.797,0.785,(1.0884)+(0.0423)Ser+(0.0045)Gln+(-0.1457)His+(0.0039)Pro+(0.1143)Phe+(-0.1238)Trp;0.865,0.889,0.809,0.788,0.838,0.817,0.799,0.811,(2.9169)+(0.0417)Thr+(-0.0943)Cit+(-0.3517)Met+(0.0567)Ile+(0.1356)Phe+(-0.1834)Trp;0.865,0.888,0.796,0.781,0.791,0.853,0.804,0.807,(-1.7952)+(0.0557)Ser+(-0.0577)Asn+(0.0089)Gln+(-0.1605)His+(-0.2676)Met+(0.1623)Phe;0.865,0.892,0.786,0.774,0.779,0.837,0.793,0.796,(2.2847)+(0.0586)Ser+(-0.0854)Asn+(-0.1150)His+(-0.0190)Tyr+(0.1393)Phe+(-0.1025)Trp;0.865,0.890,0.780,0.759,0.773,0.846,0.801,0.795,(2.1048)+(0.0494)Ser+(-0.1277)His+(-0.0031)Ala+(-0.0024)Lys+(0.1286)Phe+(-0.1141)Trp;0.865,0.889,0.769,0.742,0.772,0.821,0.799,0.783,(2.2494)+(0.0499)Ser+(-0.0043)Gly+(-0.1359)His+(0.0106)Thr+(0.1185)Phe+(-0.1282)Trp;0.865,0.888,0.805,0.784,0.803,0.866,0.823,0.819,(2.9717)+(0.0465)Ser+(-0.0060)Ala+(-0.0755)Cit+(-0.1622)Met+(0.0960)Ile+(-0.1444)Trp;0.865,0.892,0.852,0.849,0.848,0.857,0.864,0.854,(2.5117)+(-0.0105)Asn+(0.0128)Gln+(-0.1258)His+(-0.1885)Met+(0.1391)Phe+(-0.1051)Trp;0.8

65,0.893,0.799,0.796,0.819,0.820,0.753,0.797,(-0.7088)+(0.0421)Ser+(0.0252)Thr+(-0.3842)Met+(0.0058)Leu+(0.1397)Phe+(-0.1608)Trp;0.865,0.890,0.751,0.711,0.748,0.819,0.812,0.772,(1.3571)+(0.0491)Ser+(-0.1387)His+(-0.0035)Orn+(0.0561)Ile+(0.0958)Phe+(-0.1340)Trp;0.865,0.893,0.845,0.835,0.844,0.857,0.867,0.851,(2.3748)+(0.0127)Gln+(-0.1335)His+(-0.2057)Met+(0.0145)Leu+(0.1299)Phe+(-0.1120)Trp;0.865,0.891,0.757,0.714,0.767,0.837,0.791,0.777,(-1.6794)+(0.0690)Ser+(-0.1484)His+(-0.0117)Arg+(-0.3335)Met+(0.0656)Ile+(0.1416)Phe;0.865,0.894,0.794,0.782,0.792,0.842,0.796,0.803,(0.9549)+(0.0446)Ser+(0.0073)Gln+(-0.1453)His+(-0.0274)Arg+(0.1274)Phe+(-0.1172)Trp;0.865,0.889,0.821,0.817,0.829,0.835,0.806,0.821,(0.1829)+(0.0577)Ser+(-0.0039)Gly+(-0.0750)Cit+(-0.2586)Met+(0.1518)Phe+(-0.1545)Trp;0.865,0.891,0.821,0.824,0.823,0.839,0.799,0.821,(0.0942)+(0.0544)Ser+(-0.0720)Asn+(-0.2377)Met+(0.0051)Orn+(0.1323)Phe+(-0.1393)Trp;0.865,0.890,0.786,0.766,0.781,0.828,0.823,0.799,(1.2183)+(0.0475)Ser+(-0.0045)Gly+(0.0052)Gln+(-0.1433)His+(0.1159)Phe+(-0.1227)Trp;0.865,0.8

88,0.781,0.751,0.782,0.830,0.823,0.796,(2.7991)+(-0.1308)His+(0.0387)Thr+(-0.3675)Met+(0.1279)Ile+(-0.0562)Leu+(0.1397)Phe;0.864,0.889,0.804,0.791,0.823,0.839,0.772,0.806,(2.3497)+(0.0518)Ser+(-0.1359)Asn+(-0.1254)Cit+(0.0433)Orn+(0.1044)Phe+(-0.1673)Trp;0.864,0.890,0.779,0.745,0.783,0.851,0.810,0.797,(3.5422)+(0.0504)Ser+(-0.0975)His+(-0.1768)Met+(0.0137)Orn+(0.0882)Ile+(-0.1053)Trp;0.864,0.892,0.797,0.793,0.802,0.817,0.786,0.799,(-1.2270)+(0.0537)Ser+(0.0110)Pro+(0.0054)Tyr+(-0.3440)Met+(0.1298)Phe+(-0.1487)Trp;0.864,0.888,0.782,0.749,0.774,0.863,0.827,0.803,(4.2658)+(0.0461)Ser+(-0.0854)His+(-0.0063)Ala+(-0.0595)Cit+(0.0951)Ile+(-0.1256)Trp;0.864,0.891,0.751,0.719,0.744,0.816,0.806,0.771,(1.3876)+(0.0483)Ser+(-0.1346)His+(-0.0247)Tyr+(0.0557)Ile+(0.1074)Phe+(-0.1254)Trp;0.864,0.887,0.791,0.766,0.788,0.822,0.842,0.

804,(3.4080)+(0.0072)Gln+(-0.1453)His+(0.0132)Thr+(0.0462)Ile+(0.0770)Phe+(-0.1387)Trp;0.864,0.888,0.815,0.812,0.826,0.838,0.783,0.815,(0.0448)+(0.0526)Ser+(-0.0812)Cit+(-0.2603)Met+(-0.0002)Lys+(0.1539)Phe+(-0.1533)Trp;0.864,0.884,0.775,0.750,0.743,0.856,0.847,0.799,(4.2402)+(0.0376)Ser+(-0.0802)His+(-0.0058)Ala+(-0.0245)Val+(0.1442)Ile+(-0.1113)Trp;0.864,0.889,0.782,0.750,0.782,0.854,0.815,0.800,(3.6743)+(0.0522)Ser+(-0.0094)Asn+(-0.0924)His+(-0.1661)Met+(0.0914)Ile+(-0.1051)Trp;0.864,0.888,0.820,0.803,0.812,0.838,0.866,0.830,(5.0566)+(-0.0729)His+(-0.1924)Met+(0.1327)Ile+(-0.0570)Leu+(0.1232)Phe+(-0.1063)Trp;0.864,0.893,0.793,0.777,0.794,0.818,0.815,0.801,(-2.0466)+(0.0535)Ser+(0.0008)Gln+(-0.3468)Met+(0.0622)Ile+(0.1090)Phe+(-0.1534)Trp;0.864,0.889,0.825,0.825,0.823,0.829,0.826,0.826,(-0.1857)+(0.0596)Ser+(-0.0072)Gly+(-0.0043)Val+(-0.2817)Met+(0.1400)Phe+(-0.1423)Trp;0.864,0.886,0.767,0.739,0.769,0.847,0.778,0.784,(-0.8531)+(0.0651)Ser+(-0.1440)His+(-0.0039)Ala+(0.0146)Pro+(-0.3181)Met+(0.1608)Phe;0.864,0.886,0.759,0.730,0.762,0.822,0.782,0.774,(1.7703)+(0.0486)Ser+(-0.1357)His+(0.0044)Pro+(0.0018)Val+(0.1145)Phe+(-0.1240)Trp;0.864,0.889,0.770,0.736,0.767,0.851,0.803,0.790,(4.0197)+(0.0434)Ser+(-0.0798)His+(-0.0580)Cit+(0.1226)Ile+(-0.0301)Leu+(-0.1288)Trp;0.864,0.889,0.817,0.815,0.826,0.840,0.788,0.817,(0.1084)+(0.0522)Ser+(-0.0008)Ala+(-0.0807)Cit+(-0.2550)Met+(0.1540)Phe+(-0.1526)Trp;0.864,0.892,0.824,0.826,0.825,0.842,0.805,0.825,(0.0360)+(0.0550)Ser+(-0.0689)Asn+(0.0075)Tyr+(-0.2492)Met+(0.1334)Phe+(-0.1414)Trp;0.864,0.892,0.849,0.846,0.846,0.856,0.861,0.852,(2.4120)+(0.0126)Gln+(-0.1277)His+(0.0002)Ala+(-0.1968)Met+(0.1405)Phe+(-0.1055)Trp;0.864,0.890,0.764,0.737,0.783,0.837,0.741,0.775,(0.0799)+(0.0530)Ser+(-0.1604)His+(0.0323)Thr+(-0.3660)Met+(-0.0063)Lys+(0.1763)Phe;0.864,0.889,0.797,0.776,0.791,0.861,0.822,0.812,(1.8167)+(0.0463)Ser+(0.0346)Tyr+(-0.2758)Met+(0.1638)Ile+(-0.0597)Leu+(-

0.1427)Trp;0.864,0.888,0.810,0.801,0.823,0.832,0.789,0.811,(-0.1720)+(0.0535)Ser+(-0.0842)Cit+(-0.2714)Met+(0.0110)Leu+(0.1461)Phe+(-0.1599)Trp;0.864,0.891,0.795,0.792,0.798,0.815,0.785,0.797,(-1.1994)+(0.0534)Ser+(0.0111)Pro+(-0.3373)Met+(0.0010)Leu+(0.1301)Phe+(-0.1479)Trp;0.864,0.888,0.754,0.718,0.762,0.820,0.782,0.771,(2.0064)+(0.0451)Ser+(-0.1450)His+(0.0090)Thr+(0.0141)Leu+(0.1073)Phe+(-0.1317)Trp;0.864,0.887,0.794,0.769,0.784,0.857,0.832,0.811,(3.2807)+(0.0414)Ser+(-0.0853)Asn+(0.0072)Gln+(-0.1132)His+(0.0727)Ile+(-0.1148)Trp;0.864,0.889,0.820,0.803,0.810,0.841,0.872,0.831,(3.5412)+(-0.0498)Asn+(0.0104)Gln+(-0.1311)His+(0.0461)Ile+(0.0770)Phe+(-0.1270)Trp;0.864,0.888,0.815,0.812,0.826,0.837,0.784,0.815,(0.0255)+(0.0526)Ser+(-0.0815)Cit+(0.0003)Val+(-0.2612)Met+(0.1534)Phe+(-0.1539)Trp;0.864,0.887,0.774,0.750,0.746,0.858,0.838,0.798,(4.6036)+(0.0464)Ser+(-0.0829)Asn+(-0.0690)His+(-0.0291)Val+(0.1429)Ile+(-0.1011)Trp;0.864,0.883,0.785,0.761,0.768,0.854,0.836,0.805,(3.3127)+(0.0353)Ser+(0.0049)Gln+(-0.1169)His+(-0.0056)Ala+(0.0838)Ile+(-0.1203)Trp;0.864,0.892,0.844,0.840,0.841,0.848,0.860,0.847,(2.0904)+(0.0121)Gln+(-0.1342)His+(-0.2275)Met+(0.0111)Lys+(0.1425)Phe+(-0.1118)Trp;0.863,0.886,0.784,0.757,0.779,0.815,0.841,0.798,(4.9673)+(-0.1107)His+(0.0156)Thr+(0.0966)Ile+(-0.0378)Leu+(0.0869)Phe+(-0.1312)Trp;0.863,0.885,0.792,0.775,0.767,0.827,0.866,0.809,(3.5146)+(0.0063)Gln+(-0.1107)His+(-0.0256)Val+(0.1070)Ile+(0.0825)Phe+(-0.1245)Trp;0.863,0.891,0.757,0.712,0.764,0.839,0.801,0.779,(-1.6709)+(0.0656)Ser+(-0.1514)His+(-0.0041)Tyr+(-0.3390)Met+(0.0655)Ile+(0.1408)Phe;0.863,0.892,0.849,0.844,0.846,0.853,0.863,0.851,(2.4047)+(0.0126)Gln+(-0.1304)His+(0.0029)Val+(-0.1969)Met+(0.1366)Phe+(-0.1080)Trp;0.863,0.887,0.774,0.747,0.757,0.817,0.850,0.793,(4.8935)+(-0.1028)His+(0.0174)Thr+(-0.0298)Val+(0.1160)Ile+(0.0854)Phe+(-0.1281)Trp;0.863,0.885,0.780,0.755,0.759,0.856,0.837,0.802,(4.1227)+(0.0399)Ser+(-

0.0899)His+(-0.0061)Ala+(0.1284)Ile+(-0.0302)Leu+(-0.1135)Trp;0.863,0.884,0.765,0.734,0.751,0.845,0.817,0.787,(4.2121)+(0.0410)Ser+(-0.0738)His+(-0.0527)Cit+(-0.0233)Val+(0.1356)Ile+(-0.1258)Trp;0.863,0.885,0.780,0.748,0.781,0.850,0.814,0.798,(3.0084)+(0.0371)Ser+(0.0059)Gln+(-0.1080)His+(-0.0611)Cit+(0.0802)Ile+(-0.1360)Trp;0.863,0.882,0.803,0.790,0.765,0.863,0.875,0.823,(6.3790)+(0.0162)Thr+(-0.0087)Ala+(-0.0729)Cit+(-0.0371)Val+(0.1714)Ile+(-0.1424)Trp;0.863,0.885,0.783,0.768,0.732,0.889,0.849,0.810,(1.5650)+(0.0333)Ser+(0.0217)Thr+(-0.0059)Ala+(-0.0563)Val+(-0.3799)Met+(0.2184)Ile;0.863,0.887,0.792,0.775,0.751,0.867,0.868,0.815,(4.3520)+(0.0524)Ser+(-0.1265)Asn+(-0.0061)Gly+(-0.0420)Val+(0.1596)Ile+(-0.1160)Trp;0.863,0.889,0.762,0.736,0.763,0.826,0.784,0.777,(1.8943)+(0.0496)Ser+(-0.1317)His+(0.0052)Pro+(-0.0045)Lys+(0.1201)Phe+(-0.1193)Trp;0.863,0.888,0.783,0.760,0.776,0.840,0.817,0.798,(2.1571)+(0.0537)Ser+(-0.0036)Gly+(-0.1260)His+(-0.0031)Ala+(0.1256)Phe+(-0.1177)Trp;0.863,0.888,0.800,0.789,0.766,0.839,0.874,0.817,(4.9568)+(-0.1417)Asn+(0.0221)Thr+(-0.0505)Val+(0.1538)Ile+(0.0842)Phe+(-0.1306)Trp;0.863,0.885,0.774,0.749,0.760,0.852,0.812,0.793,(3.4650)+(0.0302)Ser+(-0.1034)Cit+(-0.0349)Val+(0.0353)Orn+(0.1427)Ile+(-0.1640)Trp;0.863,0.895,0.811,0.805,0.802,0.845,0.820,0.818,(-0.5507)+(0.0517)Ser+(-0.0339)Val+(-0.3204)Met+(0.0609)Leu+(0.1370)Phe+(-0.1400)Trp;0.863,0.890,0.768,0.743,0.769,0.831,0.788,0.783,(2.0556)+(0.0477)Ser+(-0.1327)His+(0.0113)Orn+(-0.0050)Lys+(0.1201)Phe+(-0.1146)Trp;0.863,0.890,0.818,0.824,0.818,0.835,0.792,0.817,(-0.4446)+(0.0488)Ser+(-0.0006)Ala+(-0.0046)Val+(-0.2805)Met+(0.1422)Phe+(-0.1403)Trp;0.863,0.889,0.813,0.800,0.787,0.841,0.879,0.827,(5.5709)+(-0.0835)His+(-0.0070)Ala+(0.1302)Ile+(-0.0527)Leu+(0.0937)Phe+(-0.1185)Trp;0.863,0.888,0.815,0.812,0.826,0.838,0.784,0.815,(0.0233)+(0.0525)Ser+(-0.0816)Cit+(0.0007)Arg+(-0.2617)Met+(0.1538)Phe+(-0.1536)Trp;0.863,0.884,0.

771,0.738,0.757,0.850,0.829,0.794,(4.0266)+(0.0428)Ser+(-0.1045)His+(-0.0070)Ala+(0.0064)Pro+(0.0814)Ile+(-0.1189)Trp;0.863,0.889,0.754,0.719,0.774,0.833,0.745,0.768,(-0.4550)+(0.0535)Ser+(-0.1693)His+(0.0310)Thr+(-0.3949)Met+(0.0155)Leu+(0.1606)Phe;0.863,0.887,0.792,0.780,0.780,0.852,0.806,0.805,(2.6565)+(0.0384)Ser+(0.0084)Thr+(-0.2437)Met+(0.1554)Ile+(-0.0546)Leu+(-0.1348)Trp;0.863,0.889,0.794,0.766,0.784,0.839,0.853,0.811,(5.7173)+(-0.1214)His+(0.0225)Thr+(-0.0070)Ala+(0.0585)Ile+(0.0849)Phe+(-0.1386)Trp;0.863,0.888,0.816,0.821,0.818,0.829,0.789,0.814,(-0.5584)+(0.0482)Ser+(-0.0058)Val+(-0.2932)Met+(0.0033)Lys+(0.1427)Phe+(-0.1425)Trp;0.863,0.891,0.818,0.818,0.819,0.834,0.803,0.818,(-0.0585)+(0.0554)Ser+(-0.0692)Asn+(-0.2448)Met+(0.0061)Leu+(0.1296)Phe+(-0.1422)Trp;0.863,0.889,0.801,0.785,0.773,0.833,0.879,0.818,(5.7446)+(-0.0428)Asn+(-0.0718)His+(-0.0356)Val+(0.1300)Ile+(0.0895)Phe+(-0.1126)Trp;0.863,0.889,0.768,0.740,0.773,0.829,0.786,0.782,(2.0007)+(0.0496)Ser+(-0.1342)His+(0.0043)Val+(-0.0052)Lys+(0.1190)Phe+(-0.1184)Trp;0.863,0.891,0.820,0.814,0.834,0.843,0.791,0.821,(-0.0691)+(0.0532)Ser+(-0.0814)Cit+(0.0147)Tyr+(-0.2826)Met+(0.1505)Phe+(-0.1569)Trp;0.863,0.890,0.777,0.758,0.771,0.830,0.800,0.790,(1.1804)+(0.0412)Ser+(0.0046)Gln+(-0.1460)His+(0.0048)Orn+(0.1157)Phe+(-0.1208)Trp;0.863,0.889,0.767,0.737,0.767,0.823,0.801,0.782,(1.9300)+(0.0545)Ser+(-0.0042)Gly+(-0.1310)His+(0.0055)Pro+(0.1147)Phe+(-0.1255)Trp;0.862,0.890,0.815,0.807,0.827,0.820,0.808,0.815,(3.0045)+(0.0478)Thr+(-0.0476)Val+(-0.4018)Met+(0.0773)Leu+(0.1444)Phe+(-0.1555)Trp;0.862,0.890,0.762,0.737,0.765,0.826,0.778,0.777,(2.0560)+(0.0441)Ser+(-0.1392)His+(0.0082)Thr+(0.0052)Orn+(0.1178)Phe+(-0.1241)Trp;0.862,0.883,0.811,0.795,0.793,0.852,0.864,0.826,(0.0062)+(0.0116)Gln+(-0.1305)His+(-0.3134)Met+(0.1368)Ile+(-0.0627)Leu+(0.1303)Phe;0.862,0.886,0.805,0.785,0.794,0.865,0.835,0.820,(3.9584)+(0.0461)Ser+(-0.0734)Asn+(-0.0072)Ala+(

-0.0832)Cit+(0.0874)Ile+(-0.1536)Trp;0.862,0.888,0.783,0.757,0.787,0.846,0.800,0.797,(-2.2507)+(0.0539)Ser+(0.0077)Gln+(-0.1716)His+(-0.3210)Met+(0.0132)Leu+(0.1530)Phe;0.862,0.890,0.764,0.741,0.789,0.840,0.719,0.772,(0.1342)+(0.0545)Ser+(-0.1584)His+(0.0363)Thr+(-0.0227)Arg+(-0.3686)Met+(0.1778)Phe;0.862,0.888,0.830,0.827,0.820,0.848,0.843,0.835,(3.3589)+(-0.0610)Asn+(0.0034)Gly+(0.0107)Gln+(-0.1298)His+(0.1065)Phe+(-0.1130)Trp;0.862,0.888,0.818,0.812,0.768,0.854,0.911,0.836,(5.0118)+(-0.0713)Asn+(-0.0075)Ala+(-0.0478)Val+(0.1664)Ile+(0.0865)Phe+(-0.1230)Trp;0.862,0.892,0.796,0.793,0.800,0.813,0.786,0.798,(-1.1707)+(0.0540)Ser+(0.0117)Pro+(-0.3362)Met+(-0.0057)Orn+(0.1339)Phe+(-0.1477)Trp;0.862,0.886,0.807,0.793,0.808,0.826,0.829,0.814,(3.7059)+(0.0079)Gln+(-0.1425)His+(0.0180)Thr+(-0.0058)Lys+(0.1061)Phe+(-0.1258)Trp;0.862,0.886,0.780,0.762,0.750,0.889,0.810,0.803,(2.0491)+(0.0334)Ser+(0.0249)Thr+(-0.0577)Cit+(-0.0553)Val+(-0.4016)Met+(0.2076)Ile;0.862,0.885,0.806,0.784,0.798,0.831,0.861,0.819,(3.3636)+(0.0091)Gln+(-0.1363)His+(-0.0053)Lys+(0.0507)Ile+(0.0776)Phe+(-0.1297)Trp;0.862,0.894,0.855,0.850,0.855,0.863,0.864,0.858,(2.2508)+(0.0135)Gln+(-0.1156)His+(-0.0544)Cit+(-0.1821)Met+(0.1518)Phe+(-0.1151)Trp;0.862,0.891,0.821,0.823,0.824,0.837,0.797,0.820,(-0.5815)+(0.0496)Ser+(0.0134)Tyr+(-0.0052)Val+(-0.3040)Met+(0.1399)Phe+(-0.1435)Trp;0.862,0.888,0.759,0.742,0.756,0.819,0.766,0.771,(2.0936)+(0.0434)Ser+(-0.1355)His+(0.0137)Thr+(-0.0302)Tyr+(0.1349)Phe+(-0.1183)Trp;0.862,0.888,0.793,0.771,0.806,0.843,0.788,0.802,(2.7887)+(0.0484)Ser+(-0.0749)Cit+(0.0067)Pro+(-0.2175)Met+(0.0776)Ile+(-0.1531)Trp;0.862,0.891,0.767,0.740,0.779,0.836,0.761,0.779,(2.1649)+(0.

0468)Ser+(-0.1226)His+(0.0155)Thr+(-0.0671)Cit+(0.1359)Phe+(-0.1458)Trp;0.862,0.886,0.788,0.770,0.790,0.845,0.792,0.799,(-2.0421)+(0.0523)Ser+(0.0078)Gln+(-0.1671)His+(0.0005)Ala+(-0.3088)Met+(0.1634)Phe;0.8

62,0.890,0.801,0.769,0.822,0.853,0.805,0.812,(2.0511)+(0.0517)Ser+(-0.0769)Cit+(0.0386)Tyr+(-0.2669)Met+(0.0863)Ile+(-0.1620)Trp;0.862,0.887,0.789,0.772,0.790,0.846,0.794,0.800,(-1.9995)+(0.0523)Ser+(0.0078)Gln+(-0.1667)His+(0.0002)Val+(-0.3055)Met+(0.1631)Phe;0.862,0.883,0.796,0.774,0.786,0.859,0.831,0.813,(3.7707)+(0.0409)Ser+(-0.0083)Ala+(-0.0902)Cit+(-0.0127)Lys+(0.1006)Ile+(-0.1581)Trp;0.862,0.887,0.815,0.817,0.817,0.830,0.794,0.815,(-0.6094)+(0.0489)Ser+(-0.0013)Ala+(-0.2831)Met+(0.0010)Lys+(0.1348)Phe+(-0.1453)Trp;0.862,0.892,0.846,0.841,0.843,0.853,0.858,0.849,(2.4961)+(0.0121)Gln+(-0.1282)His+(-0.1947)Met+(0.0089)Orn+(0.1359)Phe+(-0.1050)Trp;0.862,0.890,0.788,0.769,0.787,0.844,0.801,0.800,(0.8908)+(0.0444)Ser+(0.0059)Gln+(-0.1300)His+(-0.0634)Cit+(0.1329)Phe+(-0.1355)Trp;0.862,0.888,0.825,0.825,0.824,0.823,0.829,0.825,(-0.8441)+(0.0579)Ser+(-0.0075)Gly+(0.0021)Gln+(-0.2941)Met+(0.1310)Phe+(-0.1491)Trp;0.862,0.883,0.790,0.770,0.758,0.870,0.852,0.813,(5.9999)+(-0.0698)His+(0.0356)Thr+(-0.0035)Ala+(-0.0449)Val+(-0.3132)Met+(0.1885)Ile;0.862,0.887,0.799,0.785,0.784,0.859,0.819,0.812,(3.0000)+(0.0447)Ser+(-0.0404)Asn+(-0.1829)Met+(0.1554)Ile+(-0.0555)Leu+(-0.1287)Trp;0.862,0.886,0.776,0.745,0.788,0.818,0.801,0.788,(0.9605)+(0.0456)Ser+(-0.1169)Cit+(-0.0220)Lys+(0.0716)Ile+(0.0939)Phe+(-0.1893)Trp;0.862,0.884,0.800,0.780,0.799,0.849,0.822,0.812,(7.2924)+(-0.0813)His+(0.0306)Thr+(-0.1943)Met+(0.1154)Ile+(-0.0277)Leu+(-0.1092)Trp;0.862,0.886,0.759,0.733,0.776,0.830,0.741,0.770,(-0.2427)+(0.0522)Ser+(-0.1627)His+(0.0303)Thr+(0.0004)Ala+(-0.3769)Met+(0.1726)Phe;0.862,0.889,0.819,0.825,0.821,0.839,0.782,0.817,(-0.2673)+(0.0512)Ser+(-0.0124)Arg+(-0.0045)Val+(-0.2696)Met+(0.1437)Phe+(-0.1386)Trp;0.862,0.886,0.766,0.753,0.735,0.815,0.828,0.783,(0.7726)+(0.0391)Ser+(-0.0385)Arg+(-0.0478)Val+(0.1588)Ile+(0.0886)Phe+(-0.1566)Trp;0.862,0.887,0.764,0.738,0.781,0.835,0.745,0.775,(0.0802)+(0.0548)Ser+(-0.0357)A

sn+(-0.1569)His+(0.0307)Thr+(-0.3490)Met+(0.1712)Phe;0.862,0.884,0.803,0.786,0.804,0.822,0.828,0.810,(3.5153)+(0.0077)Gln+(-0.1456)His+(0.0155)Thr+(0.0015)Val+(0.0996)Phe+(-0.1295)Trp;0.862,0.887,0.823,0.822,0.825,0.827,0.816,0.822,(-0.1067)+(0.0621)Ser+(-0.0071)Gly+(-0.0122)Arg+(-0.2722)Met+(0.1352)Phe+(-0.1448)Trp;0.862,0.885,0.836,0.831,0.828,0.845,0.858,0.841,(3.6527)+(-0.0537)Asn+(0.0112)Gln+(-0.1292)His+(0.0009)Val+(0.1007)Phe+(-0.1149)Trp;0.861,0.887,0.831,0.830,0.814,0.835,0.867,0.837,(1.0670)+(0.0065)Gln+(-0.2951)Met+(0.1623)Ile+(-0.0802)Leu+(0.1153)Phe+(-0.1345)Trp;0.861,0.888,0.763,0.739,0.778,0.834,0.743,0.773,(-0.1525)+(0.0517)Ser+(-0.1593)His+(0.0310)Thr+(-0.0027)Val+(-0.3728)Met+(0.1768)Phe;0.861,0.885,0.755,0.720,0.761,0.819,0.788,0.772,(1.7702)+(0.0487)Ser+(-0.1391)His+(0.0033)Pro+(0.0126)Leu+(0.1067)Phe+(-0.1278)Trp;0.861,0.888,0.794,0.790,0.750,0.844,0.861,0.811,(0.5930)+(0.0316)Ser+(-0.0111)Ala+(0.1686)Ile+(-0.0786)Leu+(0.0776)Phe+(-0.1552)Trp;0.861,0.888,0.759,0.732,0.761,0.823,0.781,0.774,(1.8109)+(0.0475)Ser+(-0.1354)His+(0.0044)Pro+(0.0067)Orn+(0.1142)Phe+(-0.1223)Trp;0.861,0.883,0.803,0.793,0.769,0.875,0.851,0.822,(3.7243)+(0.0406)Ser+(-0.0863)Asn+(-0.0075)Ala+(0.1609)Ile+(-0.0610)Leu+(-0.1278)Trp;0.861,0.885,0.781,0.746,0.788,0.819,0.831,0.796,(5.6127)+(-0.1249)His+(0.0234)Thr+(-0.0084)Lys+(0.0507)Ile+(0.0838)Phe+(-0.1363)Trp;0.861,0.888,0.765,0.738,0.767,0.827,0.787,0.780,(1.9034)+(0.0471)Ser+(-0.1367)His+(0.0023)Val+(0.0076)Orn+(0.1144)Phe+(-0.1210)Trp;0.861,0.887,0.817,0.821,0.821,0.834,0.785,0.815,(-0.3576)+(0.0514)Ser+(-0.0011)Ala+(-0.0127)Arg+(-0.2661)Met+(0.1371)Phe+(-0.1421)Trp;0.861,0.887,0.790,0.773,0.790,0.847,0.794,0.801,(-1.9425)+(0.0526)Ser+(0.0078)Gln+(-0.1659)His+(-0.3016)Met+(-0.0014)Lys+(0.1638)Phe;0.861,0.887,0.762,0.736,0.778,0.831,0.749,0.774,(-0.1607)+(0.0541)Ser+(-0.0016)Gly+(-0.1607)His+(0.0306)Thr+(-0.3737)Met+(0.1711)Phe;0.861,0.890,0.821,0.829,0.8

20,0.833,0.795,0.819,(-0.9262)+(0.0466)Ser+(0.0019)Gln+(-0.0051)Val+(-0.2928)Met+(0.1412)Phe+(-0.1425)Trp;0.861,0.886,0.781,0.762,0.729,0.883,0.865,0.810,(1.2558)+(0.0430)Ser+(-0.0082)Ala+(0.0112)Pro+(-0.0516)Val+(-0.3203)Met+(0.1956)Ile;0.861,0.885,0.786,0.766,0.773,0.815,0.842,0.799,(4.5917)+(0.0039)Gly+(-0.1006)His+(0.1083)Ile+(-0.0446)Leu+(0.0899)Phe+(-0.1218)Trp;0.861,0.889,0.816,0.821,0.816,0.834,0.788,0.815,(-0.4831)+(0.0483)Ser+(-0.0057)Val+(-0.2859)Met+(0.0059)Orn+(0.1402)Phe+(-0.1397)Trp;0.861,0.886,0.821,0.819,0.822,0.824,0.825,0.822,(-0.3110)+(0.0599)Ser+(-0.0072)Gly+(-0.0006)Ala+(-0.2816)Met+(0.1334)Phe+(-0.1465)Trp;0.861,0.885,0.829,0.818,0.801,0.875,0.883,0.844,(4.9134)+(0.0066)Gln+(-0.0570)Cit+(-0.0378)Val+(-0.1870)Met+(0.1670)Ile+(-0.1228)Trp;0.861,0.888,0.778,0.766,0.770,0.824,0.792,0.788,(1.0973)+(0.0421)Ser+(0.0047)Gln+(-0.1408)His+(-0.0206)Tyr+(0.1286)Phe+(-0.1143)Trp;0.861,0.886,0.820,0.818,0.821,0.820,0.824,0.821,(-0.3653)+(0.0601)Ser+(-0.0073)Gly+(-0.2865)Met+(0.0003)Lys+(0.1330)Phe+(-0.1474)Trp;0.861,0.892,0.852,0.845,0.851,0.860,0.867,0.856,(2.3965)+(0.0128)Gln+(-0.1297)His+(0.0154)Tyr+(-0.2172)Met+(0.1374)Phe+(-0.1094)Trp;0.861,0.888,0.786,0.766,0.788,0.847,0.792,0.798,(-1.9641)+(0.0520)Ser+(0.0075)Gln+(-0.1672)His+(-0.3047)Met+(0.0067)Orn+(0.1609)Phe;0.861,0.887,0.806,0.787,0.814,0.856,0.802,0.815,(1.9876)+(0.0429)Ser+(0.0035)Gln+(-0.0768)Cit+(-0.2133)Met+(0.0837)Ile+(-0.1550)Trp;0.861,0.881,0.801,0.788,0.762,0.889,0.857,0.824,(4.9664)+(0.0347)Thr+(-0.0063)Ala+(-0.0603)Cit+(-0.0556)Val+(-0.3403)Met+(0.2140)Ile;0.861,0.885,0.796,0.773,0.789,0.830,0.846,0.810,(3.0453)+(0.0025)Gly+(0.0081)Gln+(-0.1407)His+(0.0485)Ile+(0.0773)Phe+(-0.1323)Trp;0.861,0.889,0.812,0.804,0.815,0.832,0.812,0.816,(3.7194)+(0.0101)Gln+(-0.1474)His+(0.0244)Thr+(-0.0319)Arg+(0.1114)Phe+(-0.1300)Trp;0.861,0.883,0.801,0.778,0.799,0.853,0.830,0.815,(7.6696)+(-0.0927)His+(0.0342)Thr+(-0.0038)Ala+(-0.1808)M

et+(0.0834)Ile+(-0.1139)Trp;0.861,0.886,0.765,0.731,0.769,0.821,0.808,0.782,(1.9837)+(0.0533)Ser+(-0.0035)Gly+(-0.1361)His+(0.0137)Leu+(0.1076)Phe+(-0.1275)Trp;0.861,0.886,0.834,0.828,0.826,0.843,0.855,0.838,(3.6642)+(-0.0551)Asn+(0.0110)Gln+(-0.1281)His+(0.0027)Pro+(0.0996)Phe+(-0.1155)Trp;0.861,0.882,0.800,0.774,0.814,0.848,0.806,0.811,(7.6639)+(-0.0823)His+(0.0350)Thr+(-0.0445)Cit+(-0.1880)Met+(0.0786)Ile+(-0.1186)Trp;0.861,0.886,0.801,0.781,0.810,0.852,0.796,0.810,(3.3523)+(0.0502)Ser+(-0.0450)Asn+(-0.0708)Cit+(-0.1609)Met+(0.0818)Ile+(-0.1466)Trp;0.861,0.885,0.812,0.796,0.813,0.860,0.819,0.822,(2.9654)+(0.0423)Ser+(-0.1216)Asn+(0.0056)Gln+(-0.0904)Cit+(0.0693)Ile+(-0.1676)Trp;0.861,0.884,0.795,0.777,0.749,0.895,0.865,0.821,(1.8695)+(0.0424)Ser+(-0.0068)Ala+(-0.0549)Cit+(-0.0477)Val+(-0.2786)Met+(0.2022)Ile;0.861,0.888,0.820,0.823,0.820,0.831,0.801,0.819,(-0.9915)+(0.0469)Ser+(0.0018)Gln+(-0.0014)Ala+(-0.2873)Met+(0.1338)Phe+(-0.1463)Trp;0.861,0.886,0.763,0.728,0.769,0.830,0.792,0.780,(2.0265)+(0.0506)Ser+(-0.1363)His+(-0.0081)Lys+(0.0182)Leu+(0.1113)Phe+(-0.1214)Trp;0.860,0.884,0.762,0.733,0.773,0.834,0.764,0.776,(-0.8079)+(0.0664)Ser+(-0.0270)Asn+(-0.1442)His+(0.0113)Pro+(-0.3100)Met+(0.1605)Phe;0.860,0.887,0.761,0.735,0.785,0.837,0.727,0.771,(-0.0384)+(0.0535)Ser+(-0.1543)His+(0.0332)Thr+(-0.0431)Cit+(-0.3756)Met+(0.1756)Phe;0.860,0.887,0.815,0.819,0.818,0.824,0.793,0.814,(-1.1092)+(0.0473)Ser+(0.0017)Gln+(-0.2979)Met+(0.0003)Lys+(0.1331)Phe+(-0.1479)Trp;0.860,0.885,0.782,0.756,0.755,0.875,0.839,0.806,(1.9431)+(0.0414)Ser+(0.0045)Gln+(-0.0927)His+(-0.0346)Val+(-0.2781)Met+(0.1652)Ile;0.860,0.886,0.768,0.733,0.770,0.850,0.797,0.788,(-0.7431)+(0.0624)Ser+(-0.1369)His+(-0.0242)Val+(-0.3243)Met+(0.0509)Leu+(0.1568)Phe;0.860,0.886,0.819,0.816,0.777,0.848,0.896,0.834,(3.8148)+(-0.1186)Asn+(0.0045)Gln+(-0.0464)Val+(0.1461)Ile+(0.0803)Phe+(-0.1314)Trp;0.860,0.882,0.755,0.719,0.768,0.833,0.766,0.772,(

-1.1575)+(0.0653)Ser+(-0.1512)His+(0.0106)Pro+(-0.3368)Met+(0.0083)Leu+(0.1545)Phe;0.860,0.886,0.792,0.774,0.789,0.846,0.806,0.804,(-1.9746)+(0.0548)Ser+(-0.0022)Gly+(0.0081)Gln+(-0.1654)His+(-0.3030)Met+(0.1611)Phe;0.860,0.890,0.785,0.767,0.782,0.847,0.792,0.797,(2.2499)+(0.0526)Ser+(-0.1244)His+(-0.0028)Ala+(-0.0188)Arg+(0.1339)Phe+(-0.1135)Trp;0.860,0.890,0.812,0.798,0.770,0.852,0.907,0.832,(4.5275)+(-0.0096)Ala+(-0.0840)Cit+(-0.0421)Val+(0.1697)Ile+(0.0958)Phe+(-0.1450)Trp;0.860,0.886,0.760,0.734,0.776,0.832,0.742,0.771,(-0.2070)+(0.0521)Ser+(-0.1622)His+(0.0301)Thr+(-0.3736)Met+(0.0006)Orn+(0.1722)Phe;0.860,0.885,0.801,0.785,0.788,0.816,0.861,0.812,(5.4173)+(-0.0157)Asn+(-0.0885)His+(0.1108)Ile+(-0.0481)Leu+(0.0886)Phe+(-0.1203)Trp;0.860,0.885,0.793,0.775,0.796,0.853,0.792,0.804,(-2.0167)+(0.0523)Ser+(0.0086)Gln+(-0.1570)His+(-0.0401)Cit+(-0.3072)Met+(0.1663)Phe;0.860,0.883,0.818,0.805,0.793,0.863,0.874,0.834,(5.1525)+(0.0085)Gln+(-0.0724)His+(-0.0293)Val+(-0.1741)Met+(0.1488)Ile+(-0.0978)Trp;0.860,0.887,0.779,0.749,0.779,0.852,0.809,0.797,(3.6799)+(0.0529)Ser+(-0.0928)His+(-0.0064)Arg+(-0.1640)Met+(0.0925)Ile+(-0.1051)Trp;0.860,0.886,0.792,0.780,0.778,0.853,0.810,0.805,(2.4785)+(0.0425)Ser+(0.0032)Pro+(-0.2281)Met+(0.1543)Ile+(-0.0565)Leu+(-0.1313)Trp;0.860,0.885,0.777,0.748,0.768,0.850,0.819,0.796,(4.2991)+(0.0463)Ser+(-0.0587)Asn+(-0.0873)His+(0.1133)Ile+(-0.0278)Leu+(-0.1114)Trp;0.860,0.887,0.819,0.817,0.821,0.822,0.822,0.820,(-0.3656)+(0.0600)Ser+(-0.0075)Gly+(-0.2872)Met+(0.0050)Orn+(0.1302)Phe+(-0.1473)Trp;0.860,0.883,0.801,0.787,0.801,0.823,0.823,0.809,(3.4603)+(0.0007)Gly+(0.0075)Gln+(-0.1445)His+(0.0153)Thr+(0.1026)Phe+(-0.1278)Trp;0.860,0.888,0.821,0.828,0.824,0.832,0.788,0.818,(-1.0121)+(0.0489)Ser+(0.0025)Gln+(-0.0147)Arg+(-0.2826)Met+(0.1350)Phe+(-0.1456)Trp;0.860,0.888,0.764,0.724,0.775,0.849,0.786,0.784,(4.0850)+(0.0427)Ser+(-0.0961)His+(-0.0781)Cit+(0.0330)Orn+(0.0735)Ile+(-0.1

376)Trp;0.860,0.881,0.781,0.753,0.765,0.858,0.831,0.802,(4.3682)+(0.0479)Ser+(-0.0470)Asn+(-0.0963)His+(-0.0050)Ala+(0.0853)Ile+(-0.1108)Trp;0.860,0.881,0.794,0.773,0.768,0.871,0.844,0.814,(4.1728)+(0.0062)Gln+(-0.0912)His+(0.0315)Thr+(-0.0414)Val+(-0.3471)Met+(0.1758)Ile;0.860,0.884,0.792,0.780,0.777,0.854,0.810,0.805,(2.5110)+(0.0417)Ser+(-0.2194)Met+(0.0019)Orn+(0.1590

)Ile+(-0.0575)Leu+(-0.1314)Trp;0.860,0.886,0.772,0.744,0.774,0.826,0.805,0.787,(2.0103)+(0.0533)Ser+(-0.0037)Gly+(-0.1325)His+(0.0029)Val+(0.1158)Phe+(-0.1234)Trp;0.860,0.885,0.789,0.771,0.759,0.849,0.858,0.809,(2.7917)+(0.0065)Gly+(-0.0787)His+(-0.0499)Val+(-0.3366)Met+(0.1743)Ile+(0.1352)Phe;0.860,0.887,0.771,0.731,0.753,0.877,0.841,0.800,(1.9178)+(0.0531)Ser+(-0.0836)His+(0.0452)Tyr+(-0.0437)Val+(-0.3490)Met+(0.1874)Ile;0.860,0.890,0.821,0.820,0.823,0.839,0.805,0.822,(-0.6576)+(0.0498)Ser+(-0.0017)Ala+(0.0141)Tyr+(-0.2981)Met+(0.1323)Phe+(-0.1474)Trp;0.860,0.884,0.768,0.737,0.748,0.865,0.823,0.793,(2.7448)+(0.0448)Ser+(-0.0850)His+(-0.0388)Val+(-0.2722)Met+(0.0225)Orn+(0.1696)Ile;0.860,0.887,0.815,0.817,0.817,0.835,0.794,0.816,(-0.5789)+(0.0488)Ser+(-0.0014)Ala+(-0.2804)Met+(0.0030)Orn+(0.1335)Phe+(-0.1442)Trp;0.860,0.886,0.803,0.787,0.778,0.862,0.859,0.821,(7.4713)+(-0.0934)Asn+(0.0232)Thr+(-0.0639)Cit+(-0.0405)Val+(0.1570)Ile+(-0.1314)Trp;0.860,0.883,0.778,0.757,0.733,0.882,0.852,0.806,(1.5906)+(0.0437)Ser+(-0.0084)Gly+(0.0244)Thr+(-0.0590)Val+(-0.4157)Met+(0.2146)Ile;0.860,0.888,0.784,0.763,0.783,0.850,0.795,0.798,(2.1035)+(0.0517)Ser+(-0.1107)His+(-0.0031)Ala+(-0.0577)Cit+(0.1403)Phe+(-0.1301)Trp;0.860,0.884,0.798,0.777,0.801,0.823,0.829,0.807,(3.5421)+(0.0077)Gln+(-0.1497)His+(0.0157)Thr+(0.0118)Leu+(0.0908)Phe+(-0.1341)Trp;0.860,0.883,0.803,0.788,0.804,0.823,0.826,0.810,(3.5356)+(0.0076)Gln+(-0.1441)His+(0.0156)Thr+(0.0001)Pro+(0.1018)Phe+(-0.1282)Trp;0.860,0.883,0.795,0.773,0.805,0.8

48,0.792,0.804,(2.9446)+(0.0478)Ser+(-0.0728)Cit+(-0.1839)Met+(-0.0046)Lys+(0.0870)Ile+(-0.1486)Trp;0.860,0.883,0.761,0.733,0.770,0.835,0.761,0.775,(-0.9537)+(0.0644)Ser+(-0.1432)His+(0.0125)Pro+(-0.0041)Val+(-0.3310)Met+(0.1664)Phe;0.860,0.889,0.819,0.820,0.828,0.835,0.784,0.817,(-0.5539)+(0.0526)Ser+(-0.0134)Arg+(0.0138)Tyr+(-0.2941)Met+(0.1336)Phe+(-0.1464)Trp;0.860,0.887,0.777,0.751,0.775,0.830,0.808,0.791,(2.1684)+(0.0547)Ser+(-0.0040)Gly+(-0.1270)His+(-0.0045)Lys+(0.1231)Phe+(-0.1170)Trp;0.859,0.880,0.764,0.733,0.744,0.836,0.837,0.787,(4.1433)+(0.0453)Ser+(-0.0053)Gly+(-0.0866)His+(-0.0250)Val+(0.1322)Ile+(-0.1159)Trp;0.859,0.885,0.778,0.750,0.746,0.877,0.846,0.805,(2.7973)+(0.0464)Ser+(-0.0762)His+(-0.0038)Ala+(-0.0362)Val+(-0.2446)Met+(0.1762)Ile;0.859,0.887,0.808,0.782,0.802,0.839,0.865,0.822,(2.8036)+(0.0103)Gln+(-0.1235)His+(-0.0714)Cit+(0.0564)Ile+(0.0901)Phe+(-0.1472)Trp;0.859,0.884,0.793,0.783,0.750,0.870,0.855,0.814,(3.7777)+(0.0413)Ser+(-0.1453)Asn+(0.0022)Gln+(-0.0420)Val+(0.1583)Ile+(-0.1132)Trp;0.859,0.886,0.801,0.804,0.789,0.819,0.804,0.804,(1.6061)+(0.0489)Ser+(-0.1531)Asn+(0.0071)Pro+(-0.0111)Val+(0.1069)Phe+(-0.1366)Trp;0.859,0.885,0.812,0.816,0.819,0.824,0.775,0.809,(-0.5539)+(0.0514)Ser+(-0.0153)Arg+(-0.2837)Met+(0.0043)Lys+(0.1357)Phe+(-0.1463)Trp;0.859,0.882,0.788,0.778,0.796,0.860,0.743,0.794,(5.9475)+(0.0386)Ser+(-0.0874)His+(0.0182)Thr+(0.0133)Pro+(-0.1731)Met+(-0.1011)Trp;0.859,0.885,0.776,0.742,0.780,0.851,0.802,0.794,(4.4375)+(0.0504)Ser+(-0.0491)Asn+(-0.0844)His+(-0.0524)Cit+(0.0802)Ile+(-0.1253)Trp;0.859,0.886,0.812,0.796,0.806,0.832,0.853,0.822,(3.2648)+(0.0113)Gln+(-0.1398)His+(-0.0221)Arg+(0.0497)Ile+(0.0800)Phe+(-0.1301)Trp;0.859,0.885,0.835,0.830,0.827,0.843,0.856,0.839,(3.6299)+(-0.0601)Asn+(0.0111)Gln+(-0.1293)His+(0.0036)Lys+(0.1000)Phe+(-0.1157)Trp;0.859,0.879,0.765,0.739,0.745,0.840,0.823,0.787,(3.5328)+(0.0334)Ser+(0.0030)Gln+(-0.1001)His+(-0.0214)Val+(0

.1231)Ile+(-0.1170)Trp;0.859,0.889,0.766,0.746,0.756,0.847,0.783,0.783,(-4.1346)+(0.0541)Ser+(-0.0945)Cit+(-0.4161)Met+(0.2004)Ile+(-0.1008)Leu+(0.1473)Phe;0.859,0.887,0.810,0.794,0.815,0.835,0.823,0.817,(3.4891)+(0.0084)Gln+(-0.1318)His+(0.0202)Thr+(-0.0675)Cit+(0.1196)Phe+(-0.1424)Trp;0.859,0.881,0.794,0.789,0.744,0.829,0.886,0.812,(3.5371)+(0.0092)Thr+(-0.0098)Ala+(-0.0452)Val+(0.1621)Ile+(0.0747)Phe+(-0.1514)Trp;0.859,0.884,0.758,0.725,0.758,0.824,0.796,0.776,(1.9404)+(0.0483)Ser+(-0.1352)His+(-0.0130)Val+(0.0344)Leu+(0.1087)Phe+(-0.1251)Trp;0.859,0.884,0.798,0.788,0.781,0.856,0.817,0.810,(2.0881)+(0.0390)Ser+(0.0021)Gln+(-0.2283)Met+(0.1593)Ile+(-0.0579)Leu+(-0.1337)Trp;0.859,0.884,0.784,0.769,0.746,0.869,0.844,0.807,(4.1978)+(0.0422)Ser+(-0.1479)Asn+(-0.0449)Val+(0.0207)Orn+(0.1609)Ile+(-0.1099)Trp;0.859,0.884,0.762,0.724,0.768,0.845,0.788,0.781,(4.1719)+(0.0423)Ser+(-0.0982)His+(0.0077)Thr+(-0.0583)Cit+(0.0798)Ile+(-0.1361)Trp;0.859,0.886,0.783,0.761,0.761,0.820,0.863,0.801,(5.1584)+(-0.0895)His+(-0.0319)Val+(0.0150)Orn+(0.1199)Ile+(0.0791)Phe+(-0.1185)Trp;0.859,0.889,0.771,0.739,0.788,0.840,0.767,0.784,(1.9869)+(0.0485)Ser+(-0.1126)His+(-0.0888)Cit+(0.0354)Orn+(0.1271)Phe+(-0.1413)Trp;0.859,0.883,0.804,0.787,0.764,0.853,0.892,0.824,(6.9809)+(-0.0104)Ala+(-0.0717)Cit+(0.0114)Pro+(-0.0379)Val+(0.1679)Ile+(-0.1306)Trp;0.859,0.882,0.797,0.791,0.745,0.829,0.898,0.816,(3.8111)+(-0.0102)Ala+(0.0055)Pro+(-0.0452)Val+(0.1593)Ile+(0.0760)Phe+(-0.1458)Trp;0.859,0.888,0.822,0.819,0.823,0.824,0.826,0.823,(-0.4105)+(0.0603)Ser+(-0.0072)Gly+(0.0062)Tyr+(-0.2951)Met+(0.1317)Phe+(-0.1487)Trp;0.859,0.887,0.811,0.813,0.815,0.825,0.786,0.810,(-0.7233)+(0.0492)Ser+(-0.2923)Met+(0.0014)Orn+(0.0007)Lys+(0.1335)Phe+(-0.1464)Trp;0.859,0.884,0.832,0.824,0.827,0.839,0.860,0.837,(3.6550)+(-0.0514)Asn+(0.0112)Gln+(-0.1331)His+(0.0098)Leu+(0.0927)Phe+(-0.1193)Trp;0.859,0.883,0.770,0.748,0.748,0.845,0.822,0.791,(3.4473)+(

0.0335)Ser+(-0.0793)Cit+(0.0027)Pro+(-0.0341)Val+(0.1459)Ile+(-0.1610)Trp;0.859,0.882,0.771,0.749,0.749,0.847,0.819,0.791,(3.5027)+(0.0324)Ser+(0.0016)Thr+(-0.0781)Cit+(-0.0341)Val+(0.1484)Ile+(-0.1603)Trp;0.859,0.878,0.773,0.742,0.760,0.851,0.826,0.795,(4.1357)+(0.0433)Ser+(-0.1020)His+(-0.0054)Ala+(-0.0037)Lys+(0.0887)Ile+(-0.1147)Trp;0.859,0.884,0.794,0.783,0.778,0.853,0.811,0.806,(2.4701)+(0.0409)Ser+(-0.2281)Met+(0.0037)Lys+(0.1613)Ile+(-0.0597)Leu+(-0.1341)Trp;0.859,0.885,0.805,0.796,0.768,0.837,0.883,0.821,(4.9586)+(-0.1011)Asn+(-0.0489)Val+(0.0164)Orn+(0.1501)Ile+(0.0759)Phe+(-0.1251)Trp;0.859,0.890,0.851,0.849,0.847,0.857,0.859,0.853,(2.4884)+(0.0134)Gln+(-0.1272)His+(-0.0096)Arg+(-0.1820)Met+(0.1400)Phe+(-0.1049)Trp;0.859,0.887,0.815,0.806,0.806,0.840,0.840,0.823,(3.7455)+(0.0077)Gln+(-0.1393)His+(0.0177)Thr+(-0.0042)Ala+(0.1092)Phe+(-0.1273)Trp;0.859,0.881,0.772,0.751,0.749,0.848,0.820,0.792,(3.4953)+(0.0332)Ser+(-0.0001)Gln+(-0.0770)Cit+(-0.0340)Val+(0.1486)Ile+(-0.1590)Trp;0.859,0.884,0.808,0.815,0.800,0.830,0.793,0.810,(2.0010)+(0.0443)Ser+(-0.1634)Asn+(0.0114)Thr+(-0.0105)Val+(0.1101)Phe+(-0.1396)Trp;0.859,0.890,0.814,0.800,0.785,0.844,0.889,0.830,(5.4054)+(-0.0748)Asn+(-0.0738)Cit+(-0.0445)Val+(0.1518)Ile+(0.0955)Phe+(-0.1352)Trp;0.859,0.887,0.775,0.759,0.766,0.834,0.793,0.788,(1.9978)+(0.0490)Ser+(-0.1267)His+(-0.0024)Ala+(-0.0164)Tyr+(0.1340)Phe+(-0.1118)Trp;0.859,0.883,0.772,0.745,0.762,0.840,0.816,0.791,(3.2076)+(0.0334)Ser+(0.0043)Gln+(-0.1132)His+(0.1031)Ile+(-0.0222)Leu+(-0.1212)Trp;0.859,0.881,0.771,0.741,0.758,0.853,0.822,0.793,(4.2345)+(0.0396)Ser+(-0.1084)His+(0.0060)Thr+(-0.0058)Ala+(0.0855)Ile+(-0.1200)Trp;0.859,0.885,0.794,0.774,0.784,0.814,0.855,0.807,(5.1846)+(-0.0967)His+(0.0101)Orn+(0.1071)Ile+(-0.0462)Leu+(0.0834)Phe+(-0.1215)Trp;0.859,0.886,0.833,0.826,0.827,0.844,0.852,0.838,(3.7595)+(-0.0557)Asn+(0.0106)Gln+(-0.1287)His+(0.0112)Orn+(0.0969)Phe+(-0.1137)Trp;0.859

,0.883,0.782,0.769,0.742,0.867,0.841,0.805,(4.4002)+(0.0404)Ser+(-0.1498)Asn+(0.0104)Thr+(-0.0441)Val+(0.1631)Ile+(-0.1147)Trp;0.859,0.884,0.794,0.772,0.811,0.848,0.775,0.802,(4.1272)+(0.0454)Ser+(-0.1034)Asn+(-0.1118)Cit+(0.0376)Orn+(0.0583)Ile+(-0.1654)Trp;0.859,0.881,0.781,0.757,0.758,0.861,0.837,0.803,(5.9442)+(-0.0778)His+(0.0386)Thr+(-0.0513)Val+(-0.3448)Met+(0.1714)Ile+(0.0201)Leu;0.859,0.888,0.766,0.742,0.773,0.829,0.768,0.778,(1.9726)+(0.0533)Ser+(-0.1283)His+(-0.0216)Arg+(0.0063)Pro+(0.1242)Phe+(-0.1204)Trp;0.859,0.889,0.819,0.820,0.823,0.829,0.799,0.818,(-1.2157)+(0.0480)Ser+(0.0018)Gln+(0.0117)Tyr+(-0.3145)Met+(0.1306)Phe+(-0.1505)Trp;0.859,0.885,0.765,0.745,0.765,0.822,0.779,0.778,(1.8458)+(0.0487)Ser+(-0.1322)His+(-0.0232)Tyr+(0.0039)Val+(0.1276)Phe+(-0.1152)Trp;0.859,0.881,0.795,0.777,0.782,0.812,0.858,0.807,(5.0847)+(-0.0951)His+(0.0029)Lys+(0.1103)Ile+(-0.0482)Leu+(0.0862)Phe+(-0.1240)Trp;0.859,0.882,0.758,0.728,0.770,0.833,0.759,0.773,(-1.0184)+(0.0648)Ser+(-0.1479)His+(0.0115)Pro+(-0.3292)Met+(-0.0006)Lys+(0.1612)Phe;0.859,0.882,0.759,0.730,0.775,0.833,0.750,0.772,(-0.9528)+(0.0674)Ser+(-0.1444)His+(-0.0126)Arg+(0.0117)Pro+(-0.3182)Met+(0.1629)Phe;0.859,0.881,0.822,0.819,0.851,0.817,0.771,0.815,(4.4312)+(-0.0401)Asn+(0.0450)Thr+(-0.0848)Cit+(-0.2949)Met+(0.1500)Phe+(-0.1699)Trp;0.859,0.887,0.812,0.816,0.819,0.828,0.775,0.810,(-0.4575)+(0.0515)Ser+(-0.0143)Arg+(-0.2747)Met+(0.0065)Orn+(0.1333)Phe+(-0.1429)Trp;0.859,0.882,0.772,0.740,0.759,0.851,0.826,0.794,(4.0935)+(0.0410)Ser+(-0.1085)His+(-0.0058)Ala+(0.0133)Orn+(0.0829)Ile+(-0.1178)Trp;0.858,0.884,0.767,0.736,0.744,0.866,0.824,0.793,(2.7211)+(0.0481)Ser+(-0.0802)His+(0.0060)Pro+(-0.0377)Val+(-0.2811)Met+(0.1655)Ile;0.858,0.883,0.802,0.787,0.803,0.823,0.826,0.810,(3.5610)+(0.0075)Gln+(-0.1442)His+(0.0151)Thr+(0.0041)Orn+(0.1001)Phe+(-0.1278)Trp;0.858,0.886,0.822,0.833,0.805,0.836,0.819,0.823,(1.1269)+(0.0450)Ser+(-0.1567)Asn+(0.0

028)Gln+(-0.0087)Val+(0.1067)Phe+(-0.1387)Trp;0.858,0.883,0.780,0.759
,0.756,0.820,0.856,0.798,(4.6904)+(0.0032)Gly+(-0.0903)His+(-0.0305)V
al+(0.1205)Ile+(0.0878)Phe+(-0.1214)Trp;0.858,0.882,0.760,0.729,0.770
,0.833,0.770,0.775,(-1.0042)+(0.0667)Ser+(-0.0015)Gly+(-0.1469)His+(0
.0116)Pro+(-0.3300)Met+(0.1598)Phe;0.858,0.885,0.805,0.783,0.796,0.83
2,0.860,0.818,(3.3138)+(0.0088)Gln+(-0.1394)His+(-0.0026)Pro+(0.0506)
Ile+(0.0762)Phe+(-0.1317)Trp;0.858,0.882,0.794,0.769,0.795,0.858,0.81
1,0.809,(3.4091)+(0.0350)Ser+(-0.0097)Ala+(-0.1213)Cit+(0.0372)Orn+(0
.0802)Ile+(-0.1733)Trp;0.858,0.881,0.792,0.769,0.782,0.853,0.829,0.80
8,(3.3014)+(0.0355)Ser+(0.0039)Thr+(-0.0091)Ala+(-0.0932)Cit+(0.0905)
Ile+(-0.1728)Trp;0.858,0.886,0.830,0.830,0.854,0.824,0.783,0.823,(1.7
119)+(0.0057)Gln+(0.0396)Thr+(-0.0908)Cit+(-0.3538)Met+(0.1541)Phe+(-
0.1751)Trp;0.858,0.886,0.814,0.822,0.801,0.835,0.803,0.815,(1.7293)+(
0.0469)Ser+(-0.1517)Asn+(-0.0104)Val+(0.0135)Orn+(0.1053)Phe+(-0.1335
)Trp;0.858,0.887,0.787,0.754,
0.795,0.819,0.836,0.801,(5.8869)+(-0.0436)Asn+(-0.1203)His+(0.0249)Th
r+(0.0446)Ile+(0.0818)Phe+(-0.1364)Trp;0.858,0.883,0.821,0.823,0.819,
0.837,0.806,0.821,(1.1634)+(0.0490)Ser+(-0.1473)Asn+(0.0049)Gln+(-0.0
981)Cit+(0.1122)Phe+(-0.1619)Trp;0.858,0.879,0.777,0.744,0.763,0.850,
0.838,0.799,(4.1338)+(0.0488)Ser+(-0.0041)Gly+(-0.1029)His+(-0.0056)A
la+(0.0859)Ile+(-0.1178)Trp;0.858,0.887,0.759,0.725,0.764,0.824,0.790
,0.776,(1.8774)+(0.0476)Ser+(-0.1400)His+(0.0057)Orn+(0.0135)Leu+(0.1
064)Phe+(-0.1258)Trp;0.858,0.885,0.801,0.794,0.816,0.828,0.766,0.801,
(2.5408)+(0.0494)Ser+(-0.1515)Asn+(0.0174)Thr+(-0.1014)Cit+(0.1158)Ph
e+(-0.1720)Trp;0.858,0.881,0.757,0.726,0.741,0.837,0.817,0.780,(4.033
2)+(0.0356)Ser+(-0.0943)His+(-0.0245)Val+(0.0141)Orn+(0.1279)Ile+(-0.
1150)Trp;0.858,0.888,0.773,0.745,0.774,0.826,0.806,0.787,(2.0801)+(0.
0519)Ser+(-0.0039)Gly+(-0.1317)His+(0.0098)Orn+(0.1155)Phe+(-0.1208)T

rp;0.858,0.882,0.780,0.769,0.710,0.874,0.886,0.810,(0.1991)+(0.0549)Ser+(-0.2232)Asn+(-0.0085)Ala+(-0.0624)Val+(0.1893)Ile+(0.0999)Phe;0.858,0.885,0.760,0.737,0.774,0.830,0.740,0.770,(-0.1019)+(0.0513)Ser+(-0.1609)His+(0.0309)Thr+(-0.0093)Tyr+(-0.3611)Met+(0.1744)Phe;0.858,0.884,0.802,0.780,0.796,0.827,0.859,0.815,(3.2868)+(0.0087)Gln+(-0.1390)His+(-0.0004)Orn+(0.0480)Ile+(0.0751)Phe+(-0.1325)Trp;0.858,0.885,0.772,0.750,0.781,0.831,0.774,0.784,(2.0954)+(0.0526)Ser+(-0.1302)His+(-0.0198)Arg+(0.0030)Val+(0.1249)Phe+(-0.1188)Trp;0.858,0.885,0.843,0.841,0.829,0.856,0.866,0.848,(3.7749)+(-0.0504)Asn+(0.0112)Gln+(-0.1257)His+(-0.0027)Ala+(0.1070)Phe+(-0.1122)Trp;0.858,0.885,0.790,0.763,0.742,0.896,0.881,0.821,(0.2928)+(0.0471)Ser+(-0.0070)Ala+(0.0456)Tyr+(-0.0580)Val+(-0.3851)Met+(0.2220)Ile;0.858,0.885,0.802,0.786,0.810,0.820,0.816,0.808,(6.3084)+(-0.0575)Asn+(-0.1123)His+(0.0289)Thr+(-0.0029)Val+(0.1099)Phe+(-0.1220)Trp;0.858,0.881,0.799,0.778,0.787,0.856,0.841,0.815,(2.7303)+(0.0338)Ser+(0.0023)Gln+(-0.0092)Ala+(-0.0946)Cit+(0.0912)Ile+(-0.1746)Trp;0.858,0.882,0.791,0.771,0.792,0.835,0.812,0.802,(2.3447)+(0.0508)Ser+(-0.0079)Gly+(0.0168)Thr+(-0.2813)Met+(0.0775)Ile+(-0.1542)Trp;0.858,0.881,0.786,0.764,0.765,0.867,0.832,0.807,(6.1882)+(-0.0663)His+(0.0373)Thr+(-0.0377)Cit+(-0.0453)Val+(-0.3291)Met+(0.1859)Ile;0.858,0.884,0.794,0.782,0.794,0.851,0.784,0.803,(-2.1711)+(0.0546)Ser+(0.0094)Gln+(-0.1644)His+(-0.0194)Arg+(-0.2873)Met+(0.1659)Phe;0.858,0.887,0.756,0.736,0.754,0.817,0.773,0.770,(1.7109)+(0.0490)Ser+(-0.1289)His+(0.0066)Pro+(-0.0274)Tyr+(0.1291)Phe+(-0.1155)Trp;0.858,0.882,0.777,0.744,0.792,0.831,0.793,0.790,(3.3872)+(-0.1359)His+(0.0539)Thr+(-0.0391)Val+(-0.4050)Met+(0.0707)Leu+(0.1467)Phe;0.858,0.882,0.761,0.730,0.779,0.831,0.755,0.774,(-0.8821)+(0.0657)Ser+(-0.1387)His+(-0.0348)Cit+(0.0119)Pro+(-0.3330)Met+(0.1633)Phe;0.858,0.882,0.756,0.724,0.769,0.833,0.758,0.771,(-1.0576)+(0.0639)Ser+(-0.1

496)His+(0.0110)Pro+(-0.3284)Met+(0.0068)Orn+(0.1583)Phe;0.858,0.887,0.789,0.772,0.790,0.846,0.794,0.800,(-1.9957)+(0.0523)Ser+(0.0078)Gln+(-0.1665)His+(0.0004)Tyr+(-0.3058)Met+(0.1634)Phe;0.858,0.879,0.784,0.759,0.760,0.867,0.841,0.807,(5.7978)+(-0.0747)His+(0.0355)Thr+(0.0131)Tyr+(-0.0469)Val+(-0.3490)Met+(0.1867)Ile;0.858,0.876,0.789,0.773,0.755,0.847,0.859,0.809,(7.1391)+(-0.0731)His+(0.0176)Thr+(-0.0063)Ala+(-0.0295)Val+(0.1474)Ile+(-0.1169)Trp;0.858,0.881,0.779,0.756,0.783,0.848,0.781,0.792,(3.1826)+(0.0321)Ser+(-0.1094)Cit+(0.0282)Orn+(0.1406)Ile+(-0.0556)Leu+(-0.1687)Trp;0.858,0.880,0.794,0.768,0.803,0.836,0.816,0.806,(7.2919)+(-0.0981)His+(0.0332)Thr+(-0.2096)Met+(0.0048)Lys+(0.0759)Ile+(-0.1158)Trp;0.858,0.880,0.783,0.762,0.757,0.862,0.838,0.805,(5.7417)+(-0.0770)His+(0.0341)Thr+(-0.0463)Val+(-0.3435)Met+(0.0058)Lys+(0.1844)Ile;0.858,0.880,0.780,0.755,0.757,0.861,0.833,0.801,(5.7754)+(-0.0777)His+(0.0329)Thr+(-0.0460)Val+(-0.3260)Met+(0.0177)Orn+(0.1805)Ile;0.858,0.883,0.788,0.767,0.765,0.820,0.871,0.806,(5.2198)+(-0.0850)His+(-0.0319)Val+(-0.0003)Lys+(0.1232)Ile+(0.0852)Phe+(-0.1200)Trp;0.858,0.884,0.793,0.769,0.813,0.851,0.774,0.802,(2.8545)+(0.0447)Ser+(-0.0956)Cit+(-0.1973)Met+(0.0293)Orn+(0.0742)Ile+(-0.1540)Trp;0.858,0.879,0.791,0.765,0.798,0.837,0.813,0.803,(7.2501)+(0.0128)Asn+(-0.0974)His+(0.0336)Thr+(-0.2084)Met+(0.0789)Ile+(-0.1143)Trp;0.858,0.882,0.763,0.725,0.770,0.842,0.794,0.783,(3.9857)+(0.0454)Ser+(-0.0939)His+(-0.0561)Cit+(0.0028)Pro+(0.0782)Ile+(-0.1350)Trp;0.858,0.882,0.779,0.756,0.776,0.843,0.804,0.795,(3.1184)+(0.0379)Ser+(0.0073)Gln+(-0.1247)His+(-0.0249)Arg+(0.0781)Ile+(-0.1227)Trp;0.858,0.888,0.815,0.814,0.821,0.828,0.794,0.814,(-0.8209)+(0.0499)Ser+(0.0115)Tyr+(-0.3091)Met+(0.0009)Lys+(0.1317)Phe+(-0.1493)Trp;0.858,0.887,0.816,0.810,0.818,0.819,0.822,0.817,(-0.5151)+(0.0608)Ser+(-0.0072)Gly+(-0.2926)Met+(0.0065)Leu+(0.1272)Phe+(-0.1500)Trp;0.858,0.883,0.826,0.812,

0.800,0.872,0.883,0.842,(4.5502)+(0.0053)Gln+(0.0357)Tyr+(-0.0447)Val+(-0.2783)Met+(0.1768)Ile+(-0.1210)Trp;0.858,0.880,0.810,0.804,0.840,0.807,0.767,0.805,(3.6186)+(0.0419)Thr+(-0.0877)Cit+(0.0071)Pro+(-0.3424)Met+(0.1493)Phe+(-0.1742)Trp;0.858,0.888,0.815,0.820,0.818,0.825,0.793,0.814,(-1.1037)+(0.0473)Ser+(0.0017)Gln+(-0.2972)Met+(0.0000)Orn+(0.1332)Phe+(-0.1477)Trp;0.858,0.883,0.768,0.734,0.768,0.844,0.803,0.787,(4.5473)+(0.0450)Ser+(-0.0670)Asn+(-0.1043)His+(0.0095)Thr+(0.0738)Ile+(-0.1181)Trp;0.858,0.879,0.793,0.768,0.801,0.837,0.814,0.805,(7.4240)+(-0.0952)His+(0.0340)Thr+(0.0004)Pro+(-0.1990)Met+(0.0772)Ile+(-0.1145)Trp;0.857,0.889,0.774,0.752,0.780,0.836,0.772,0.785,(2.1904)+(0.0506)Ser+(-0.1292)His+(-0.0216)Arg+(0.0140)Orn+(0.1236)Phe+(-0.1160)Trp;0.857,0.880,0.784,0.771,0.732,0.853,0.879,0.809,(3.3990)+(0.0388)Ser+(-0.0071)Gly+(-0.0086)Ala+(-0.0400)Val+(0.1706)Ile+(-0.1366)Trp;0.857,0.881,0.801,0.797,0.749,0.832,0.900,0.819,(3.4636)+(0.0010)Gln+(-0.0092)Ala+(-0.0446)Val+(0.1614)Ile+(0.0758)Phe+(-0.1471)Trp;0.857,0.879,0.789,0.764,0.798,0.838,0.803,0.801,(7.1295)+(0.0025)Gly+(-0.0978)His+(0.0321)Thr+(-0.1996)Met+(0.0796)Ile+(-0.1122)Trp;0.857,0.883,0.808,0.801,0.768,0.836,0.887,0.823,(4.7636)+(-0.0874)Asn+(-0.0411)Val+(0.1640)Ile+(-0.0203)Leu+(0.0837)Phe+(-0.1269)Trp;0.857,0.883,0.761,0.741,0.729,0.813,0.842,0.781,(0.7744)+(0.0334)Ser+(-0.0419)Val+(-0.0160)Lys+(0.1465)Ile+(0.0818)Phe+(-0.1550)Trp;0.857,0.882,0.775,0.753,0.753,0.854,0.824,0.796,(3.8270)+(0.0354)Ser+(-0.0752)Cit+(-0.0321)Val+(-0.0096)Lys+(0.1521)Ile+(-0.1491)Trp;0.857,0.882,0.816,0.816,0.812,0.844,0.804,0.819,(2.2265)+(0.0523)Ser+(-0.1184)Asn+(-0.0039)Ala+(-0.0884)Cit+(0.1228)Phe+(-0.1529)Trp;0.857,0.879,0.752,0.719,0.720,0.846,0.838,0.781,(0.7137)+(0.0607)Ser+(-0.1708)Asn+(-0.1013)His+(-0.0429)Val+(0.1346)Ile+(0.1114)Phe;0.857,0.882,0.757,0.729,0.766,0.830,0.759,0.771,(-0.9490)+(0.0641)Ser+(-0.1465)His+(0.0119)Pro+(-0.0092)

Tyr+(-0.3185)Met+(0.1624)Phe;0.857,0.883,0.790,0.769,0.799,0.846,0.783,0.800,(4.1808)+(0.0442)Ser+(-0.1059)Asn+(0.0093)Thr+(-0.0875)Cit+(0.0684)Ile+(-0.1677)Trp;0.857,0.884,0.788,0.769,0.764,0.819,0.868,0.805,(5.1163)+(-0.0837)His+(-0.0281)Val+(0.1318)Ile+(-0.0133)Leu+(0.0867)Phe+(-0.1192)Trp;0.857,0.880,0.783,0.762,0.756,0.863,0.839,0.805,(6.1606)+(-0.0168)Asn+(-0.0706)His+(0.0363)Thr+(-0.0465)Val+(-0.3175)Met+(0.1856)Ile;0.857,0.881,0.771,0.736,0.779,0.815,0.818,0.787,(4.9239)+(0.0027)Gly+(-0.1303)His+(0.0180)Thr+(0.0479)Ile+(0.0802)Phe+(-0.1368)Trp;0.857,0.889,0.846,0.840,0.841,0.860,0.862,0.851,(3.4876)+(-0.0572)Asn+(0.0125)Gln+(-0.1139)His+(-0.0612)Cit+(0.1171)Phe+(-0.1225)Trp;0.857,0.884,0.795,0.778,0.804,0.821,0.801,0.801,(5.8565)+(-0.0585)Asn+(0.0032)Gly+(-0.1181)His+(0.0265)Thr+(0.1083)Phe+(-0.1214)Trp;0.857,0.883,0.778,0.763,0.736,0.884,0.830,0.803,(2.7414)+(0.0389)Ser+(-0.0969)Asn+(0.0240)Thr+(-0.0603)Val+(-0.3280)Met+(0.2153)Ile;0.857,0.882,0.778,0.766,0.723,0.855,0.867,0.803,(3.2069)+(0.0283)Ser+(-0.0104)Ala+(0.0069)Pro+(-0.0402)Val+(0.1646)Ile+(-0.1373)Trp;0.857,0.880,0.796,0.768,0.807,0.843,0.818,0.809,(7.3406)+(-0.0961)His+(0.0337)Thr+(0.0129)Tyr+(-0.2127)Met+(0.0765)Ile+(-0.1184)Trp;0.857,0.886,0.774,0.754,0.779,0.833,0.774,0.785,(2.1157)+(0.0523)Ser+(-0.1275)His+(-0.0199)Arg+(0.0004)Lys+(0.1290)Phe+(-0.1164)Trp;0.857,0.884,0.801,0.781,0.811,0.821,0.818,0.808,(6.2824)+(-0.0524)Asn+(-0.1152)His+(0.0282)Thr+(-0.0006)Lys+(0.1057)Phe+(-0.1248)Trp;0.857,0.881,0.772,0.751,0.749,0.848,0.821,0.792,(3.4759)+(0.0332)Ser+(-0.0772)Cit+(0.0003)Tyr+(-0.0340)Val+(0.1485)Ile+(-0.1592)Trp;0.857,0.887,0.765,0.747,0.763,0.822,0.778,0.778,(1.9053)+(0.0468)Ser+(-0.1308)His+(-0.0243)Tyr+(0.0121)Orn+(0.1283)Phe+(-0.1112)Trp;0.857,0.885,0.802,0.796,0.762,0.833,0.877,0.817,(4.3870)+(-0.1004)Asn+(0.0033)Gly+(-0.0478)Val+(0.1518)Ile+(0.0869)Phe+(-0.1288)Trp;0.857,0.884,0.784,0.770,0.743,0.865,0.848,0.806,(4.1

413)+(0.0437)Ser+(-0.1340)Asn+(0.0021)Pro+(-0.0426)Val+(0.1583)Ile+(-0.1127)Trp;0.857,0.882,0.789,0.767,0.797,0.843,0.791,0.800,(3.9350)+(0.0469)Ser+(-0.0943)Asn+(-0.0846)Cit+(0.0036)Pro+(0.0660)Ile+(-0.1658)Trp;0.857,0.882,0.801,0.797,0.750,0.834,0.894,0.819,(3.7620)+(-0.0091)Ala+(-0.0360)Val+(0.1824)Ile+(-0.0292)Leu+(0.0780)Phe+(-0.1401)Trp;0.857,0.884,0.772,0.765,0.756,0.821,0.789,0.783,(0.2021)+(0.0422)Ser+(-0.0438)Arg+(0.1730)Ile+(-0.0896)Leu+(0.0885)Phe+(-0.1572)Trp;0.857,0.881,0.768,0.734,0.760,0.837,0.826,0.789,(3.9746)+(0.0466)Ser+(-0.0047)Gly+(-0.0970)His+(0.1116)Ile+(-0.0274)Leu+(-0.1202)Trp;0.857,0.880,0.814,0.806,0.762,0.863,0.907,0.835,(0.1328)+(0.0046)Gln+(-0.0048)Ala+(-0.0622)Val+(-0.3959)Met+(0.2046)Ile+(0.1205)Phe;0.857,0.884,0.804,0.785,0.763,0.858,0.899,0.826,(3.6725)+(-0.0654)His+(-0.0034)Ala+(-0.0511)Val+(-0.2948)Met+(0.1801)Ile+(0.1262)Phe;0.857,0.882,0.772,0.737,0.760,0.853,0.830,0.795,(3.8712)+(0.0437)Ser+(-0.1100)His+(-0.0066)Ala+(0.0186)Tyr+(0.0867)Ile+(-0.1250)Trp;0.857,0.877,0.801,0.777,0.800,0.843,0.836,0.814,(4.9636)+(0.0085)Gln+(-0.1090)His+(0.0125)Thr+(-0.0585)Cit+(0.0712)Ile+(-0.1405)Trp;0.857,0.880,0.816,0.807,0.850,0.822,0.763,0.811,(3.6803)+(0.0385)Thr+(-0.1040)Cit+(-0.3120)Met+(0.0256)Orn+(0.1429)Phe+(-0.1738)Trp;0.857,0.879,0.779,0.757,0.754,0.860,0.830,0.800,(5.7873)+(0.0016)Gly+(-0.0757)His+(0.0348)Thr+(-0.0451)Val+(-0.3314)Met+(0.1843)Ile;0.857,0.886,0.767,0.740,0.775,0.830,0.778,0.781,(2.0467)+(0.0529)Ser+(-0.1333)His+(-0.0192)Arg+(0.0132)Leu+(0.1173)Phe+(-0.1228)Trp;0.857,0.880,0.803,0.783,0.775,0.862,0.870,0.822,(6.4478)+(-0.0085)Ala+(-0.0948)Cit+(-0.0384)Val+(0.0473)Orn+(0.1643)Ile+(-0.1330)Trp;0.857,0.881,0.806,0.783,0.793,0.861,0.852,0.822,(6.6761)+(-0.0728)Cit+(-0.0424)Val+(-0.1513)Met+(0.0443)Orn+(0.1652)Ile+(-0.1168)Trp;0.857,0.881,0.799,0.794,0.746,0.832,0.898,0.817,(3.6635)+(0.0007)Gly+(-0.0091)Ala+(-0.0450)

Val+(0.1628)Ile+(0.0774)Phe+(-0.1455)Trp;0.857,0.884,0.801,0.781,0.81
1,0.820,0.818,0.807,(6.2569)+(-0.0529)Asn+(-0.1152)His+(0.0279)Thr+(0
.0004)Pro+(0.1049)Phe+(-0.1251)Trp;0.857,0.882,0.799,0.776,0.806,0.84
5,0.810,0.809,(2.8223)+(0.0528)Ser+(-0.0039)Gly+(-0.0663)Cit+(-0.2004
)Met+(0.0832)Ile+(-0.1501)Trp;0.857,0.886,0.793,0.777,0.767,0.820,0.8
69,0.808,(5.6452)+(-0.0777)His+(-0.0150)Arg+(-0.0351)Val+(0.1316)Ile+
(0.0910)Phe+(-0.1172)Trp;0.857,0.886,0.794,0.768,0.775,0.828,0.876,0.
812,(5.3532)+(-0.0676)His+(-0.0594)Cit+(-0.0326)Val+(0.1297)Ile+(0.09
61)Phe+(-0.1296)Trp;0.857,0.884,0.795,0.770,0.808,0.817,0.818,0.803,(
6.2262)+(-0.0489)Asn+(-0.1202)His+(0.0278)Thr+(0.0088)Leu+(0.0971)Phe
+(-0.1297)Trp;0.857,0.882,0.785,0.772,0.744,0.867,0.847,0.808,(4.1303
)+(0.0431)Ser+(-0.1296)Asn+(-0.0397)Val+(0.1666)Ile+(-0.0085)Leu+(-0.
1123)Trp;0.857,0.881,0.761,0.728,0.755,0.839,0.807,0.782,(3.8922)+(0.
0384)Ser+(-0.1040)His+(0.0102)Orn+(0.1068)Ile+(-0.0253)Leu+(-0.1193)T
rp;0.856,0.884,0.788,0.765,0.778,0.833,0.840,0.804,(0.6766)+(0.0408)S
er+(-0.0107)Ala+(-0.1105)Cit+(0.0798)Ile+(0.0882)Phe+(-0.1919)Trp;0.8
56,0.885,0.760,0.733,0.761,0.818,0.786,0.774,(1.8354)+(0.0488)Ser+(-0
.1349)His+(-0.0216)Tyr+(0.0142)Leu+(0.1197)Phe+(-0.1191)Trp;0.856,0.8
78,0.824,0.817,0.783,0.870,0.891,0.840,(5.1343)+(0.0050)Gln+(-0.0049)
Ala+(-0.0415)Val+(-0.1882)Met+(0.1790)Ile+(-0.1117)Trp;0.856,0.878,0.
778,0.747,0.803,0.839,0.764,0.788,(3.7507)+(0.0373)Ser+(-0.1239)Cit+(
0.0421)Orn+(-0.0189)Lys+(0.0727)Ile+(-0.1728)Trp;0.856,0.880,0.791,0.
776,0.781,0.852,0.804,0.803,(2.2258)+(0.0394)Ser+(0.0140)Thr+(-0.0054
)Ala+(-0.2470)Met+(0.0873)Ile+(-0.1465)Trp;0.856,0.885,0.813,0.821,0.
799,0.833,0.806,0.815,(1.6629)+(0.0475)Ser+(-0.1468)Asn+(-0.0089)Val+
(0.0011)Lys+(0.1087)Phe+(-0.1371)Trp;0.856,0.885,0.806,0.805,0.811,0.
823,0.787,0.807,(-0.8499)+(0.0504)Ser+(-0.2959)Met+(-0.0007)Lys+(0.00
73)Leu+(0.1282)Phe+(-0.1483)Trp;0.856,0.879,0.793,0.772,0.783,0.851,0

.826,0.808,(3.2776)+(0.0381)Ser+(-0.0086)Ala+(-0.0874)Cit+(-0.0043)Ar
g+(0.0909)Ile+(-0.1688)Trp;0.856,0.880,0.791,0.764,0.801,0.838,0.812,
0.803,(7.3219)+(-0.0985)His+(0.0324)Thr+(-0.1947)Met+(0.0117)Orn+(0.0
744)Ile+(-0.1145)Trp;0.856,0.886,0.810,0.809,0.812,0.829,0.798,0.812,
(-0.7356)+(0.0499)Ser+(-0.0018)Ala+(-0.2854)Met+(0.0083)Leu+(0.1280)P
he+(-0.1473)Trp;0.856,0.883,0.773,0.753,0.751,0.850,0.819,0.793,(3.45
05)+(0.0332)Ser+(-0.0782)Cit+(-0.0264)Val+(0.1665)Ile+(-0.0245)Leu+(-
0.1555)Trp;0.856,0.877,0.804,0.786,0.788,0.849,0.852,0.819,(5.4168)+(
0.0075)Gln+(-0.1189)His+(0.0131)Thr+(-0.0058)Ala+(0.0745)Ile+(-0.1286
)Trp;0.856,0.880,0.820,0.808,0.804,0.859,0.857,0.832,(4.7648)+(0.0098
)Gln+(-0.0894)His+(-0.1441)Met+(0.1225)Ile+(-0.0340)Leu+(-0.1067)Trp;
0.856,0.884,0.805,0.803,0.763,0.827,0.883,0.819,(4.8478)+(-0.0820)Asn
+(-0.0258)Tyr+(-0.0468)Val+(0.1512)Ile+(0.0955)Phe+(-0.1221)Trp;0.856
,0.882,0.795,0.772,0.806,0.848,0.791,0.804,(2.7543)+(0.0470)Ser+(-0.0
723)Cit+(0.0006)Arg+(-0.2001)Met+(0.0844)Ile+(-0.1507)Trp;0.856,0.878
,0.809,0.795,0.777,0.857,0.877,0.827,(6.4757)+(-0.0051)Ala+(-0.0454)V
al+(-0.1711)Met+(0.0267)Orn+(0.1819)Ile+(-0.1052)Trp;0.856,0.885,0.79
8,0.777,0.810,0.817,0.814,0.804,(6.1891)+(-0.0531)Asn+(-0.1168)His+(0
.0261)Thr+(0.0121)Orn+(0.1002)Phe+(-0.1242)Trp;0.856,0.882,0.778,0.75
0,0.800,0.850,0.753,0.788,(5.1770)+(0.0417)Ser+(-0.1148)His+(0.0263)T
hr+(-0.2043)Met+(0.0405)Leu+(-0.1112)Trp;0.856,0.879,0.823,0.803,0.80
9,0.867,0.872,0.838,(5.0639)+(0.0103)Gln+(-0.0961)His+(-0.0061)Ala+(-
0.0619)Cit+(0.0861)Ile+(-0.1309)Trp;0.856,0.875,0.791,0.773,0.763,0.8
39,0.864,0.810,(7.1204)+(-0.0664)His+(-0.0059)Ala+(-0.0319)Val+(0.026
5)Orn+(0.1457)Ile+(-0.1069)Trp;0.856,0.885,0.840,0.838,0.833,0.848,0.
851,0.843,(3.6081)+(-0.0403)Asn+(0.0126)Gln+(-0.1304)His+(-0.0168)Arg
+(0.1065)Phe+(-0.1131)Trp;0.856,0.878,0.816,0.807,0.773,0.865,0.896,0
.835,(5.1604)+(0.0048)Gln+(-0.0086)Ala+(-0.0750)Cit+(-0.0346)Val+(0.1

676)Ile+(-0.1413)Trp;0.856,0.880,0.773,0.743,0.767,0.839,0.816,0.791,(3.2328)+(0.0357)Ser+(0.0051)Gln+(-0.1207)His+(-0.0065)Lys+(0.0770)Ile+(-0.1201)Trp;0.856,0.880,0.781,0.759,0.756,0.862,0.834,0.803,(5.9125)+(-0.0736)His+(0.0356)Thr+(0.0014)Pro+(-0.0457)Val+(-0.3334)Met+(0.1831)Ile;0.856,0.884,0.801,0.778,0.805,0.831,0.829,0.811,(4.7474)+(0.0071)Gly+(-0.1069)His+(-0.1966)Met+(0.0607)Ile+(0.1169)Phe+(-0.1116)Trp;0.856,0.883,0.785,0.772,0.743,0.866,0.849,0.808,(4.1340)+(0.0434)Ser+(-0.1353)Asn+(-0.0427)Val+(0.0017)Lys+(0.1604)Ile+(-0.1133)Trp;0.856,0.882,0.827,0.807,0.822,0.863,0.862,0.839,(4.6608)+(0.0116)Gln+(-0.0963)His+(-0.0517)Cit+(-0.1174)Met+(0.0803)Ile+(-0.1208)Trp;0.856,0.881,0.796,0.775,0.782,0.840,0.852,0.812,(5.3343)+(0.0049)Gly+(-0.1109)His+(-0.0061)Ala+(0.0605)Ile+(0.0859)Phe+(-0.1248)Trp;0.856,0.880,0.794,0.771,0.783,0.852,0.838,0.811,(3.2650)+(0.0401)Ser+(-0.0022)Gly+(-0.0087)Ala+(-0.0876)Cit+(0.0897)Ile+(-0.1696)Trp;0.856,0.882,0.774,0.744,0.752,0.875,0.826,0.799,(3.0243)+(0.0470)Ser+(-0.0741)His+(-0.0308)Cit+(-0.0364)Val+(-0.2578)Met+(0.1705)Ile;0.856,0.885,0.762,0.733,0.772,0.828,0.771,0.776,(1.7543)+(0.0531)Ser+(-0.1148)His+(-0.0636)Cit+(0.0072)Pro+(0.1291)Phe+(-0.1408)Trp;0.856,0.884,0.774,0.756,0.768,0.821,0.801,0.786,(2.0152)+(0.0549)Ser+(-0.0046)Gly+(-0.1238)His+(-0.0259)Tyr+(0.1331)Phe+(-0.1130)Trp;0.856,0.881,0.799,0.793,0.747,0.832,0.897,0.817,(3.7760)+(-0.0091)Ala+(-0.0452)Val+(0.0050)Orn+(0.1621)Ile+(0.0740)Phe+(-0.1441)Trp;0.856,0.879,0.799,0.780,0.786,0.847,0.842,0.814,(2.0914)+(0.0538)Ser+(-0.0059)Gly+(-0.0046)Ala+(-0.2051)Met+(0.0860)Ile+(-0.1425)Trp;0.856,0.879,0.788,0.775,0.789,0.841,0.784,0.797,(2.7283)+(0.0430)Ser+(-0.0549)Asn+(0.0145)Thr+(-0.2288)Met+(0.0760)Ile+(-0.1481)Trp;0.856,0.885,0.821,0.830,0.799,0.845,0.823,0.824,(1.7674)+(0.0475)Ser+(-0.1363)Asn+(-0.0036)Ala+(-0.0064)Val+(0.1117)Phe+(-0.1349)Trp;0.856,0.879,0.806,0.792,0.802,0.828,0.834,0.814,(3.1345)+

(0.0025)Gly+(0.0090)Gln+(-0.1445)His+(0.0123)Leu+(0.0927)Phe+(-0.1262)Trp;0.856,0.877,0.745,0.716,0.703,0.850,0.831,0.775,(0.0706)+(0.0436)Ser+(-0.1415)His+(-0.0088)Ala+(0.1230)Ile+(-0.0521)Leu+(0.0896)Phe;0.856,0.879,0.778,0.747,0.772,0.838,0.832,0.797,(3.1580)+(0.0415)Ser+(-0.0051)Gly+(0.0052)Gln+(-0.1231)His+(0.0717)Ile+(-0.1257)Trp;0.856,0.884,0.763,0.729,0.776,0.828,0.779,0.778,(1.7795)+(0.0530)Ser+(-0.1211)His+(-0.0622)Cit+(0.0171)Leu+(0.1217)Phe+(-0.1439)Trp;0.856,0.879,0.743,0.719,0.714,0.794,0.826,0.764,(1.3803)+(0.0352)Ser+(-0.0044)Gln+(-0.0459)Val+(0.1483)Ile+(0.0765)Phe+(-0.1594)Trp;0.856,0.882,0.823,0.804,0.792,0.870,0.903,0.842,(6.5043)+(-0.0055)Ala+(0.0372)Tyr+(-0.0454)Val+(-0.2031)Met+(0.1890)Ile+(-0.1131)Trp;0.856,0.882,0.794,0.770,0.765,0.849,0.880,0.816,(3.5114)+(-0.0722)His+(-0.0522)Val+(-0.3129)Met+(0.0187)Orn+(0.1728)Ile+(0.1204)Phe;0.856,0.881,0.784,0.763,0.765,0.820,0.852,0.800,(3.7440)+(0.0126)Thr+(-0.0913)Cit+(-0.0404)Val+(0.1414)Ile+(0.0809)Phe+(-0.1701)Trp;0.856,0.878,0.783,0.766,0.774,0.849,0.799,0.797,(2.8688)+(0.0318)Ser+(0.0016)Gln+(-0.0906)Cit+(0.1499)Ile+(-0.0571)Leu+(-0.1684)Trp;0.856,0.879,0.815,0.807,0.776,0.858,0.888,0.832,(6.4428)+(-0.0046)Ala+(-0.0458)Val+(-0.1913)Met+(0.0107)Lys+(0.1853)Ile+(-0.1101)Trp;0.856,0.878,0.758,0.728,0.739,0.837,0.817,0.780,(4.0982)+(0.0361)Ser+(-0.0922)His+(0.0030)Thr+(-0.0238)Val+(0.1297)Ile+(-0.1164)Trp;0.856,0.881,0.790,0.774,0.775,0.849,0.823,0.805,(1.9503)+(0.0458)Ser+(-0.0069)Ala+(0.0090)Pro+(-0.2221)Met+(0.0800)Ile+(-0.1397)Trp;0.856,0.878,0.798,0.780,0.793,0.838,0.830,0.810,(2.5591)+(0.0577)Ser+(-0.0439)Asn+(-0.0062)Gly+(-0.1939)Met+(0.0758)Ile+(-0.1442)Trp;0.856,0.879,0.773,0.744,0.763,0.851,0.813,0.793,(4.2656)+(0.0462)Ser+(-0.1014)His+(-0.0051)Ala+(-0.0140)Arg+(0.0888)Ile+(-0.1155)Trp;0.856,0.877,0.762,0.731,0.754,0.837,0.807,0.782,(3.8951)+(0.0396)Ser+(-0.1008)His+(0.0001)Thr+(0.1096)Ile+(-0.0253)Leu+(-0.1192)Trp;0.856,

0.882,0.758,0.753,0.720,0.795,0.826,0.774,(0.8295)+(0.0278)Ser+(-0.0375)Tyr+(-0.0425)Val+(0.1385)Ile+(0.0928)Phe+(-0.1572)Trp;0.856,0.889,0.815,0.814,0.821,0.831,0.794,0.815,(-0.7940)+(0.0500)Ser+(0.0114)Tyr+(-0.3066)Met+(0.0006)Orn+(0.1316)Phe+(-0.1485)Trp;0.856,0.881,0.792,0.772,0.798,0.846,0.794,0.802,(4.0859)+(0.0467)Ser+(-0.0769)Asn+(-0.0827)Cit+(-0.0075)Lys+(0.0758)Ile+(-0.1591)Trp;0.856,0.879,0.784,0.774,0.738,0.861,0.848,0.805,(3.6551)+(0.0350)Ser+(-0.0075)Ala+(-0.0251)Arg+(-0.0414)Val+(0.1787)Ile+(-0.1286)Trp;0.856,0.882,0.795,0.786,0.775,0.814,0.850,0.806,(5.1871)+(-0.0876)His+(-0.0315)Tyr+(0.1181)Ile+(-0.0512)Leu+(0.1044)Phe+(-0.1116)Trp;0.856,0.884,0.775,0.751,0.782,0.839,0.780,0.788,(2.0499)+(0.0524)Ser+(-0.1119)His+(-0.0586)Cit+(-0.0040)Lys+(0.1377)Phe+(-0.1299)Trp;0.856,0.886,0.809,0.810,0.816,0.825,0.779,0.807,(-0.6155)+(0.0525)Ser+(-0.0127)Arg+(-0.2811)Met+(0.0065)Leu+(0.1309)Phe+(-0.1462)Trp;0.856,0.884,0.823,0.817,0.809,0.841,0.856,0.831,(3.6143)+(0.0093)Gln+(-0.1316)His+(-0.0050)Ala+(0.0067)Pro+(0.1038)Phe+(-0.1201)Trp;0.856,0.878,0.800,0.783,0.778,0.852,0.851,0.816,(7.3588)+(-0.0833)His+(0.0168)Thr+(-0.0065)Ala+(0.1221)Ile+(-0.0334)Leu+(-0.1208)Trp;0.856,0.882,0.819,0.806,0.784,0.864,0.894,0.837,(7.3498)+(-0.0056)Ala+(-0.0495)Cit+(-0.0397)Val+(-0.1089)Met+(0.1812)Ile+(-0.1101)Trp;0.855,0.880,0.821,0.816,0.775,0.864,0.898,0.838,(0.4087)+(-0.0716)Asn+(0.0071)Gln+(-0.0643)Val+(-0.3819)Met+(0.1986)Ile+(0.1252)Phe;0.855,0.883,0.769,0.741,0.780,0.832,0.775,0.782,(1.8219)+(0.0526)Ser+(-0.1188)His+(-0.0627)Cit+(0.0059)Val+(0.1282)Phe+(-0.1407)Trp;0.855,0.878,0.827,0.821,0.793,0.869,0.883,0.842,(5.3025)+(-0.0454)Asn+(0.0064)Gln+(-0.0421)Val+(-0.1900)Met+(0.1688)Ile+(-0.1083)Trp;0.855,0.886,0.769,0.752,0.765,0.826,0.780,0.781,(1.9243)+(0.0490)Ser+(-0.1276)His+(-0.0206)Tyr+(-0.0020)Lys+(0.1333)Phe+(-0.1110)Trp;0.855,0.879,0.815,0.805,0.821,0.850,0.807,0.821,(5.6439)+(0.0093)Gln+(-0.1254)Hi

s+(0.0305)Thr+(-0.1946)Met+(0.0326)Leu+(-0.1145)Trp;0.855,0.878,0.757,0.726,0.738,0.837,0.819,0.780,(4.0188)+(0.0376)Ser+(-0.0908)His+(0.0013)Pro+(-0.0239)Val+(0.1290)Ile+(-0.1157)Trp;0.855,0.886,0.810,0.795,0.812,0.837,0.828,0.818,(6.4436)+(-0.0505)Asn+(-0.1115)His+(0.0295)Thr+(-0.0038)Ala+(0.1120)Phe+(-0.1234)Trp;0.855,0.883,0.778,0.746,0.791,0.812,0.813,0.790,(5.9215)+(-0.1251)His+(0.0277)Thr+(-0.0217)Arg+(0.0469)Ile+(0.0846)Phe+(-0.1407)Trp;0.855,0.881,0.766,0.731,0.771,0.844,0.793,0.785,(4.1834)+(0.0460)Ser+(-0.0893)His+(-0.0549)Cit+(-0.0055)Lys+(0.0852)Ile+(-0.1289)Trp;0.855,0.882,0.799,0.781,0.785,0.818,0.861,0.811,(5.2599)+(-0.0929)His+(-0.0029)Pro+(0.1150)Ile+(-0.0482)Leu+(0.0885)Phe+(-0.1211)Trp;0.855,0.880,0.801,0.791,0.750,0.859,0.889,0.822,(1.2298)+(0.0042)Gly+(-0.0052)Ala+(-0.0626)Val+(-0.3692)Met+(0.2074)Ile+(0.1218)Phe;0.855,0.883,0.776,0.754,0.750,0.845,0.839,0.797,(3.5460)+(0.0381)Ser+(-0.0037)Gly+(-0.0711)Cit+(-0.0342)Val+(0.1476)Ile+(-0.1579)Trp;0.855,0.877,0.770,0.739,0.765,0.841,0.812,0.789,(3.1552)+(0.0344)Ser+(0.0047)Gln+(-0.1249)His+(0.0007)Thr+(0.0726)Ile+(-0.1247)Trp;0.855,0.882,0.789,0.775,0.759,0.816,0.866,0.804,(5.2210)+(-0.0814)His+(-0.0232)Tyr+(-0.0318)Val+(0.1246)Ile+(0.0969)Phe+(-0.1136)Trp;0.855,0.881,0.812,0.799,0.776,0.855,0.892,0.831,(6.9104)+(-0.0067)Ala+(0.0094)Pro+(-0.0436)Val+(-0.1653)Met+(0.1780)Ile+(-0.1044)Trp;0.855,0.882,0.798,0.780,0.765,0.845,0.883,0.818,(3.5141)+(-0.0672)His+(-0.0463)Val+(-0.3125)Met+(0.1883)Ile+(-0.0183)Leu+(0.1296)Phe;0.855,0.880,0.785,0.757,0.799,0.813,0.811,0.795,(5.8701)+(-0.1288)His+(0.0256)Thr+(-0.0067)Lys+(0.0138)Leu+(0.0961)Phe+(-0.1322)Trp;0.855,0.880,0.773,0.738,0.772,0.841,0.819,0.793,(4.3307)+(0.0531)Ser+(-0.0523)Asn+(-0.0036)Gly+(-0.0985)His+(0.0745)Ile+(-0.1171)Trp;0.855,0.880,0.770,0.735,0.771,0.844,0.807,0.789,(4.2739)+(0.0470)Ser+(-0.0602)Asn+(-0.1036)His+(0.0144)Orn+(0.0717)Il

e+(-0.1155)Trp;0.855,0.879,0.764,0.731,0.773,0.838,0.778,0.780,(-0.57
79)+(0.0619)Ser+(-0.1518)His+(-0.0011)Ala+(-0.2920)Met+(0.0147)Leu+(0
.1510)Phe;0.855,0.882,0.782,0.743,0.797,0.821,0.824,0.796,(5.3148)+(-
0.1087)His+(0.0240)Thr+(-0.0680)Cit+(0.0508)Ile+(0.0941)Phe+(-0.1555)
Trp;0.855,0.879,0.757,0.723,0.763,0.834,0.778,0.774,(4.4331)+(0.0423)
Ser+(-0.1122)His+(0.0102)Thr+(-0.0204)Arg+(0.0780)Ile+(-0.1249)Trp;0.
855,0.876,0.815,0.804,0.788,0.858,0.868,0.829,(5.2356)+(0.0080)Gln+(-
0.0952)His+(-0.0058)Ala+(0.1213)Ile+(-0.0333)Leu+(-0.1176)Trp;0.855,0
.879,0.769,0.757,0.737,0.877,0.790,0.790,(1.9998)+(0.0356)Ser+(0.0306
)Thr+(-0.0255)Arg+(-0.0597)Val+(-0.4011)Met+(0.2161)Ile;0.855,0.878,0
.799,0.787,0.804,0.834,0.799,0.806,(0.7808)+(0.0102)Gln+(-0.1689)His+
(0.0388)Thr+(-0.0046)Val+(-0.3628)Met+(0.1593)Phe;0.855,0.878,0.818,0
.811,0.785,0.858,0.874,0.832,(4.8797)+(0.0043)Gln+(-0.0442)Val+(-0.24
32)Met+(0.0085)Lys+(0.1728)Ile+(-0.1172)Trp;0.855,0.883,0.786,0.768,0
.746,0.869,0.853,0.809,(3.9761)+(0.0447)Ser+(-0.1394)Asn+(0.0119)Tyr+
(-0.0437)Val+(0.1622)Ile+(-0.1163)Trp;0.855,0.883,0.790,0.769,0.765,0
.823,0.871,0.807,(5.2332)+(-0.0853)His+(-0.0011)Pro+(-0.0319)Val+(0.1
242)Ile+(0.0855)Phe+(-0.1197)Trp;0.855,0.882,0.808,0.808,0.785,0.839,
0.829,0.815,(1.5564)+(0.0484)Ser+(-0.1360)Asn+(-0.0077)Ala+(0.0102)Pr
o+(0.0983)Phe+(-0.1441)Trp;0.855,0.884,0.785,0.773,0.748,0.868,0.837,
0.807,(4.3237)+(0.0457)Ser+(-0.1095)Asn+(-0.0179)Arg+(-0.0435)Val+(0.
1672)Ile+(-0.1115)Trp;0.855,0.883,0.791,0.783,0.778,0.857,0.796,0.803
,(2.8173)+(0.0457)Ser+(-0.0176)Arg+(-0.1902)Met+(0.1690)Ile+(-0.0630)
Leu+(-0.1267)Trp;0.855,0.886,0.810,0.811,0.814,0.821,0.792,0.810,(-1.
2236)+(0.0483)Ser+(0.0016)Gln+(-0.3036)Met+(0.0065)Leu+(0.1275)Phe+(-
0.1502)Trp;0.855,0.881,0.820,0.819,0.848,0.818,0.764,0.812,(3.8129)+(
0.0442)Thr+(-0.0807)Cit+(-0.0050)Val+(-0.3265)Met+(0.1586)Phe+(-0.167
2)Trp;0.855,0.879,0.758,0.742,0.723,0.802,0.844,0.778,(0.5017)+(0.031

6)Ser+(-0.0077)Thr+(-0.0434)Val+(0.1411)Ile+(0.0731)Phe+(-0.1641)Trp;0.855,0.880,0.827,0.820,0.817,0.844,0.858,0.835,(3.5149)+(0.0098)Gln+(-0.1369)His+(-0.0037)Ala+(0.0040)Val+(0.1017)Phe+(-0.1208)Trp;0.855,0.878,0.823,0.804,0.817,0.859,0.860,0.835,(5.0640)+(-0.0436)Asn+(0.0116)Gln+(-0.0984)His+(-0.0571)Cit+(0.0713)Ile+(-0.1302)Trp;0.855,0.883,0.802,0.794,0.753,0.835,0.902,0.821,(4.0093)+(-0.0088)Ala+(-0.0445)Val+(-0.0049)Lys+(0.1644)Ile+(0.0800)Phe+(-0.1407)Trp;0.855,0.877,0.827,0.819,0.797,0.873,0.877,0.842,(4.6565)+(0.0062)Gln+(-0.0089)Ala+(-0.0866)Cit+(0.1725)Ile+(-0.0623)Leu+(-0.1483)Trp;0.855,0.881,0.776,0.741,0.784,0.812,0.827,0.791,(5.3197)+(-0.1285)His+(0.0196)Thr+(0.0042)Orn+(0.0462)Ile+(0.0771)Phe+(-0.1387)Trp;0.855,0.879,0.817,0.814,0.850,0.811,0.758,0.808,(3.9325)+(0.0454)Thr+(-0.0808)Cit+(-0.0080)Arg+(-0.3232)Met+(0.1527)Phe+(-0.1731)Trp;0.855,0.879,0.769,0.758,0.743,0.805,0.829,0.784,(-0.2442)+(0.0377)Ser+(-0.0166)Thr+(0.1512)Ile+(-0.0784)Leu+(0.0729)Phe+(-0.1578)Trp;0.855,0.880,0.823,0.819,0.810,0.845,0.844,0.829,(3.3207)+(0.0022)Gly+(0.0092)Gln+(-0.1349)His+(-0.0032)Ala+(0.1096)Phe+(-0.1176)Trp;0.855,0.878,0.824,0.809,0.810,0.860,0.865,0.836,(4.9673)+(0.0103)Gln+(-0.1050)His+(-0.0033)Ala+(-0.1136)Met+(0.0793)Ile+(-0.1121)Trp;0.855,0.879,0.807,0.790,0.784,0.847,0.870,0.823,(7.2186)+(-0.0504)His+(-0.0386)Val+(-0.1835)Met+(0.0134)Lys+(0.1640)Ile+(-0.0984)Trp;0.855,0.885,0.806,0.786,0.825,0.833,0.804,0.812,(6.5516)+(-0.0549)Asn+(-0.0993)His+(0.0328)Thr+(-0.0646)Cit+(0.1207)Phe+(-0.1407)Trp;0.855,0.883,0.800,0.784,0.788,0.817,0.855,0.811,(5.5847)+(-0.0858)His+(-0.0133)Arg+(0.1182)Ile+(-0.0526)Leu+(0.0921)Phe+(-0.1201)Trp;0.855,0.879,0.816,0.802,0.813,0.829,0.847,0.823,(3.4306)+(0.0097)Gln+(-0.1416)His+(-0.0027)Lys+(0.0128)Leu+(0.0912)Phe+(-0.1247)Trp;0.855,0.883,0.814,0.801,0.812,0.862,0.813,0.822,(6.3627)+(0.0245)Thr+(-0.0673)Cit+(-0.1927)Met+(0.1422)Ile+(-0.0505)Leu+(-0.1364)Trp;0.855,

0.881,0.820,0.826,0.809,0.839,0.811,0.821,(1.7532)+(0.0487)Ser+(-0.1173)Asn+(-0.0044)Ala+(-0.0151)Arg+(0.1064)Phe+(-0.1423)Trp;0.855,0.882,0.773,0.745,0.746,0.871,0.833,0.799,(3.1843)+(0.0489)Ser+(-0.0393)Asn+(-0.0731)His+(-0.0391)Val+(-0.2312)Met+(0.1739)Ile;0.855,0.884,0.799,0.788,0.772,0.846,0.852,0.815,(0.9819)+(0.0487)Ser+(-0.1272)Asn+(-0.0085)Ala+(0.0581)Ile+(0.0769)Phe+(-0.1534)Trp;0.855,0.881,0.792,0.765,0.785,0.854,0.834,0.810,(2.9927)+(0.0378)Ser+(-0.0097)Ala+(-0.0947)Cit+(0.0140)Tyr+(0.0921)Ile+(-0.1770)Trp;0.855,0.874,0.795,0.781,0.761,0.883,0.844,0.817,(5.7111)+(-0.0568)Asn+(0.0367)Thr+(-0.0517)Cit+(-0.0591)Val+(-0.3285)Met+(0.2073)Ile;0.855,0.882,0.773,0.754,0.751,0.851,0.814,0.793,(3.7051)+(0.0364)Ser+(-0.0624)Cit+(-0.0166)Arg+(-0.0361)Val+(0.1562)Ile+(-0.1510)Trp;0.855,0.881,0.799,0.772,0.795,0.856,0.837,0.815,(1.1291)+(0.0496)Ser+(-0.0066)Ala+(0.0410)Tyr+(-0.2683)Met+(0.0909)Ile+(-0.1529)Trp;0.855,0.876,0.781,0.772,0.727,0.856,0.865,0.805,(3.2418)+(0.0284)Ser+(-0.0009)Thr+(-0.0087)Ala+(-0.0394)Val+(0.1687)Ile+(-0.1366)Trp;0.855,0.880,0.769,0.735,0.768,0.842,0.807,0.788,(4.2456)+(0.0481)Ser+(-0.0554)Asn+(-0.1007)His+(0.0016)Pro+(0.0735)Ile+(-0.1161)Trp;0.855,0.877,0.798,0.781,0.786,0.853,0.826,0.811,(2.4964)+(0.0477)Ser+(-0.0444)Asn+(-0.0048)Ala+(-0.1692)Met+(0.0848)Ile+(-0.1380)Trp;0.855,0.882,0.802,0.779,0.794,0.829,0.857,0.815,(5.2018)+(-0.0695)His+(-0.0686)Cit+(0.1252)Ile+(-0.0543)Leu+(0.1034)Phe+(-0.1345)Trp;0.855,0.880,0.809,0.809,0.812,0.830,0.791,0.810,(2.1574)+(0.0532)Ser+(-0.1274)Asn+(-0.0886)Cit+(-0.0030)Val+(0.1198)Phe+(-0.1542)Trp;0.855,0.873,0.805,0.793,0.772,0.854,0.872,0.823,(5.5172)+(0.0066)Gln+(-0.0844)His+(-0.0057)Ala+(-0.0246)Val+(0.1345)Ile+(-0.1134)Trp;0.855,0.884,0.808,0.800,0.770,0.835,0.891,0.824,(4.8756)+(-0.0904)Asn+(-0.0002)Pro+(-0.0475)Val+(0.1509)Ile+(0.0828)Phe+(-0.1287)Trp;0.855,0.881,0.774,0.752,0.736,0.883,0.831,0.801,(0.7960)+(0.0372)Ser+(0.0189)Thr

+(0.0306)Tyr+(-0.0627)Val+(-0.4608)Met+(0.2203)Ile;0.855,0.880,0.790,0.776,0.734,0.892,0.869,0.818,(2.2893)+(0.0469)Ser+(-0.0795)Asn+(-0.0053)Ala+(-0.0530)Val+(-0.2301)Met+(0.2058)Ile;0.855,0.878,0.809,0.791,0.801,0.846,0.844,0.820,(5.5425)+(-0.0677)Asn+(0.0093)Gln+(-0.1178)His+(0.0165)Thr+(0.0616)Ile+(-0.1255)Trp;0.855,0.883,0.809,0.803,0.771,0.832,0.889,0.824,(5.0451)+(-0.0712)Asn+(-0.0140)Arg+(-0.0484)Val+(0.1545)Ile+(0.0859)Phe+(-0.1280)Trp;0.855,0.879,0.798,0.780,0.779,0.853,0.844,0.814,(3.6531)+(0.0499)Ser+(-0.1008)Asn+(-0.0063)Gly+(0.1375)Ile+(-0.0565)Leu+(-0.1380)Trp;0.855,0.879,0.763,0.730,0.756,0.838,0.808,0.783,(3.9448)+(0.0402)Ser+(-0.0994)His+(-0.0023)Lys+(0.1095)Ile+(-0.0241)Leu+(-0.1175)Trp;0.854,0.881,0.798,0.776,0.782,0.847,0.857,0.815,(7.2230)+(-0.0517)His+(-0.0377)Val+(-0.1522)Met+(0.0301)Orn+(0.1593)Ile+(-0.0934)Trp;0.854,0.880,0.772,0.742,0.747,0.870,0.831,0.797,(2.7568)+(0.0453)Ser+(-0.0828)His+(-0.0387)Val+(-0.2825)Met+(0.0056)Lys+(0.1733)Ile;0.854,0.878,0.757,0.724,0.741,0.838,0.819,0.780,(3.8920)+(0.0384)Ser+(-0.0941)His+(0.0108)Tyr+(-0.0244)Val+(0.1304)Ile+(-0.1195)Trp;0.854,0.884,0.795,0.787,0.797,0.808,0.800,0.798,(6.2704)+(-0.0546)Asn+(-0.1134)His+(0.0331)Thr+(-0.0359)Tyr+(0.1238)Phe+(-0.1154)Trp;0.854,0.879,0.828,0.821,0.791,0.876,0.886,0.844,(5.6074)+(-0.0967)Asn+(0.0077)Gln+(-0.0706)Cit+(-0.0363)Val+(0.1494)Ile+(-0.1313)Trp;0.854,0.885,0.823,0.814,0.813,0.835,0.857,0.830,(3.8946)+(-0.0770)Cit+(-0.1943)Met+(0.1597)Ile+(-0.0756)Leu+(0.1272)Phe+(-0.1367)Trp;0.854,0.882,0.780,0.758,0.775,0.856,0.795,0.796,(3.5062)+(0.0364)Ser+(-0.0858)Cit+(-0.0076)Lys+(0.1478)Ile+(-0.0513)Leu+(-0.1583)Trp;0.854,0.878,0.794,0.780,0.757,0.852,0.867,0.814,(3.0594)+(0.0402)Ser+(-0.0070)Gly+(-0.0092)Ala+(0.1667)Ile+(-0.0651)Leu+(-0.1445)Trp;0.854,0.880,0.770,0.740,0.746,0.867,0.828,0.795,(2.8134)+(0.0467)Ser+(-0.0808)His+(-0.0372)Val+(-0.2643)Met+(0.1712)Ile+(0.0006)Leu;0.854,0.877,0.812,0.802

,0.784,0.855,0.864,0.826,(5.0964)+(0.0038)Gln+(-0.0440)Val+(-0.2255)Met+(0.0185)Orn+(0.1708)Ile+(-0.1119)Trp;0.854,0.881,0.819,0.815,0.850,0.819,0.764,0.812,(3.9846)+(0.0449)Thr+(-0.0867)Cit+(-0.3160)Met+(-0.0047)Lys+(0.1543)Phe+(-0.1716)Trp;0.854,0.878,0.814,0.807,0.846,0.807,0.767,0.807,(3.6467)+(0.0431)Thr+(-0.0870)Cit+(-0.3295)Met+(0.0063)Leu+(0.1473)Phe+(-0.1770)Trp;0.854,0.876,0.781,0.771,0.727,0.856,0.863,0.804,(3.2400)+(0.0268)Ser+(-0.0090)Ala+(-0.0403)Val+(0.0081)Orn+(0.1674)Ile+(-0.1374)Trp;0.854,0.878,0.792,0.774,0.799,0.826,0.797,0.799,(0.5273)+(0.0104)Gln+(-0.1731)His+(0.0375)Thr+(0.0039)Pro+(-0.3739)Met+(0.1493)Phe;0.854,0.886,0.835,0.835,0.823,0.841,0.858,0.839,(3.6089)+(-0.0519)Asn+(0.0112)Gln+(-0.1258)His+(-0.0137)Tyr+(0.1092)Phe+(-0.1092)Trp;0.854,0.883,0.808,0.800,0.769,0.832,0.890,0.823,(4.8623)+(-0.0953)Asn+(-0.0479)Val+(0.0022)Lys+(0.1502)Ile+(0.0818)Phe+(-0.1291)Trp;0.854,0.880,0.796,0.776,

0.764,0.844,0.884,0.817,(3.5104)+(0.0069)Asn+(-0.0702)His+(-0.0513)Val+(-0.3217)Met+(0.1759)Ile+(0.1274)Phe;0.854,0.878,0.769,0.737,0.766,0.838,0.812,0.788,(3.0663)+(0.0349)Ser+(0.0048)Gln+(-0.1268)His+(0.0055)Tyr+(0.0721)Ile+(-0.1268)Trp;0.854,0.881,0.763,0.722,0.769,0.844,0.797,0.783,(3.8897)+(0.0460)Ser+(-0.0970)His+(-0.0561)Cit+(0.0104)Tyr+(0.0803)Ile+(-0.1378)Trp;0.854,0.881,0.774,0.743,0.746,0.868,0.848,0.801,(2.8344)+(0.0527)Ser+(-0.0044)Gly+(-0.0777)His+(-0.0378)Val+(-0.2593)Met+(0.1720)Ile;0.854,0.876,0.779,0.753,0.764,0.841,0.835,0.798,(7.0336)+(-0.0666)His+(0.0181)Thr+(-0.0496)Cit+(-0.0280)Val+(0.1359)Ile+(-0.1266)Trp;0.854,0.880,0.819,0.820,0.805,0.828,0.836,0.823,(2.1097)+(0.0568)Ser+(-0.1416)Asn+(-0.0066)Gly+(-0.0083)Val+(0.1046)Phe+(-0.1378)Trp;0.854,0.879,0.811,0.810,0.843,0.812,0.744,0.802,(3.2839)+(0.0028)Gly+(0.0419)Thr+(-0.0899)Cit+(-0.3318)Met+(0.1551)Phe+(-0.1709)Trp;0.854,0.879,0.810,0.805,0.814,0.825,0.804,0.812,(2.2035)+(0.0559

)Ser+(-0.1231)Asn+(-0.0026)Gly+(-0.0873)Cit+(0.1136)Phe+(-0.1602)Trp;0.854,0.872,0.796,0.787,0.759,0.883,0.837,0.817,(3.5246)+(0.0033)Gln+(0.0323)Thr+(-0.0613)Cit+(-0.0570)Val+(-0.3960)Met+(0.2045)Ile;0.854,0.878,0.779,0.759,0.771,0.849,0.798,0.794,(3.1498)+(0.0370)Ser+(-0.0052)Thr+(-0.0840)Cit+(0.1532)Ile+(-0.0582)Leu+(-0.1608)Trp;0.854,0.877,0.802,0.792,0.761,0.860,0.872,0.821,(6.3027)+(0.0040)Gly+(-0.0080)Ala+(-0.0714)Cit+(-0.0361)Val+(0.1725)Ile+(-0.1320)Trp;0.854,0.877,0.776,0.764,0.724,0.854,0.861,0.800,(3.5806)+(0.0305)Ser+(-0.0016)Gln+(-0.0085)Ala+(-0.0399)Val+(0.1710)Ile+(-0.1342)Trp;0.854,0.878,0.790,0.775,0.797,0.831,0.783,0.796,(0.4304)+(0.0032)Gly+(0.0098)Gln+(-0.1764)His+(0.0370)Thr+(-0.3675)Met+(0.1564)Phe;0.854,0.883,0.771,0.748,0.768,0.798,0.817,0.783,(5.2891)+(-0.1260)His+(0.0248)Thr+(-0.0400)Tyr+(0.0493)Ile+(0.0993)Phe+(-0.1294)Trp;0.854,0.884,0.798,0.780,0.796,0.826,0.826,0.807,(5.7900)+(-0.1179)His+(0.0228)Thr+(-0.0054)Ala+(0.0051)Pro+(0.1075)Phe+(-0.1266)Trp;0.854,0.880,0.817,0.807,0.813,0.830,0.843,0.823,(3.3573)+(0.0096)Gln+(-0.1396)His+(0.0026)Val+(-0.0007)Lys+(0.0979)Phe+(-0.1217)Trp;0.854,0.877,0.758,0.727,0.739,0.837,0.820,0.781,(4.0501)+(0.0376)Ser+(-0.0909)His+(-0.0244)Val+(0.1289)Ile+(0.0021)Leu+(-0.1154)Trp;0.854,0.882,0.782,0.753,0.755,0.888,0.842,0.809,(0.8795)+(0.0469)Ser+(-0.0482)Cit+(0.0380)Tyr+(-0.0563)Val+(-0.3958)Met+(0.2067)Ile;0.854,0.877,0.770,0.740,0.765,0.839,0.812,0.789,(3.1302)+(0.0347)Ser+(0.0047)Gln+(-0.1247)His+(0.0001)Pro+(0.0726)Ile+(-0.1245)Trp;0.854,0.878,0.769,0.736,0.767,0.844,0.807,0.789,(4.2704)+(0.0480)Ser+(-0.0532)Asn+(-0.1003)His+(-0.0008)Lys+(0.0761)Ile+(-0.1150)Trp;0.854,0.880,0.779,0.745,0.784,0.818,0.829,0.794,(5.4488)+(-0.1299)His+(0.0219)Thr+(-0.0048)Pro+(0.0520)Ile+(0.0813)Phe+(-0.1392)Trp;0.854,0.879,0.765,0.734,0.775,0.834,0.776,0.780,(-0.4167)+(0.0638)Ser+(-0.0260)Asn+(-0.1484)His+(-0.2780)Met+(0.0126)Leu+(0.1517)Phe;0.854,0.886,

0.775,0.760,0.775,0.830,0.773,0.784,(2.0891)+(0.0525)Ser+(-0.1244)His+(-0.0188)Arg+(-0.0188)Tyr+(0.1388)Phe+(-0.1100)Trp;0.854,0.879,0.810,0.800,0.806,0.829,0.832,0.817,(3.1127)+(0.0023)Gly+(0.0090)Gln+(-0.1418)His+(0.0027)Val+(0.0998)Phe+(-0.1223)Trp;0.854,0.878,0.759,0.728,0.741,0.839,0.820,0.782,(4.1188)+(0.0381)Ser+(-0.0880)His+(-0.0235)Val+(-0.0032)Lys+(0.1320)Ile+(-0.1129)Trp;0.854,0.880,0.808,0.805,0.812,0.829,0.788,0.809,(2.1909)+(0.0530)Ser+(-0.1186)Asn+(-0.0917)Cit+(-0.0036)Lys+(0.1178)Phe+(-0.1570)Trp;0.854,0.878,0.802,0.781,0.785,0.860,0.849,0.819,(7.3654)+(-0.0740)Asn+(-0.0876)Cit+(-0.0417)Val+(0.0526)Orn+(0.1510)Ile+(-0.1240)Trp;0.854,0.882,0.822,0.813,0.794,0.854,0.882,0.836,(4.3913)+(-0.0099)Ala+(-0.0973)Cit+(0.1736)Ile+(-0.0766)Leu+(0.1048)Phe+(-0.1499)Trp;0.854,0.878,0.782,0.773,0.730,0.854,0.861,0.805,(3.2733)+(0.0279)Ser+(-0.0088)Ala+(-0.0324)Val+(0.1850)Ile+(-0.0231)Leu+(-0.1348)Trp;0.854,0.876,0.810,0.792,0.798,0.851,0.852,0.823,(4.7756)+(0.0091)Gln+(-0.0874)His+(-0.0596)Cit+(0.1172)Ile+(-0.0321)Leu+(-0.1301)Trp;0.854,0.879,0.767,0.738,0.776,0.839,0.772,0.781,(-0.4046)+(0.0589)Ser+(-0.1495)His+(-0.0005)Ala+(-0.2769)Met+(0.0136)Orn+(0.1572)Phe;0.854,0.886,0.810,0.806,0.818,0.825,0.792,0.810,(-0.9777)+(0.0509)Ser+(0.0119)Tyr+(-0.3152)Met+(0.0071)Leu+(0.1255)Phe+(-0.1515)Trp;0.854,0.876,0.803,0.793,0.826,0.857,0.743,0.805,(5.6485)+(0.0423)Ser+(-0.1097)Asn+(-0.1136)Cit+(0.0082)Pro+(0.0503)Orn+(-0.1503)Trp;0.854,0.878,0.787,0.765,0.772,0.829,0.846,0.803,(4.0067)+(-0.1092)Cit+(-0.0406)Val+(0.0366)Orn+(0.1365)Ile+(0.0731)Phe+(-0.1600)Trp;0.854,0.882,0.825,0.833,0.804,0.846,0.833,0.829,(1.0716)+(0.0443)Ser+(-0.1424)Asn+(0.0028)Gln+(-0.0048)Ala+(0.0997)Phe+(-0.1450)Trp;0.854,0.880,0.815,0.804,0.810,0.826,0.843,0.821,(3.3393)+(0.0094)Gln+(-0.1392)His+(0.0021)Pro+(0.0018)Val+(0.0967)Phe+(-0.1227)Trp;0.854,0.876,0.804,0.802,0.800,0.859,0.779,0.810,(4.1504)+(0.0367)Ser+(0.0071)Gln+(-0.1000)

His+(0.0135)Pro+(-0.1443)Met+(-0.0962)Trp;0.854,0.881,0.830,0.826,0.806,0.847,0.876,0.839,(3.7761)+(-0.0059)Ala+(-0.2055)Met+(0.1677)Ile+(-0.0784)Leu+(0.1105)Phe+(-0.1244)Trp;0.854,0.884,0.772,0.754,0.776,0.828,0.771,0.782,(1.8983)+(0.0519)Ser+(-0.1109)His+(-0.0572)Cit+(-0.0201)Tyr+(0.1453)Phe+(-0.1271)Trp;0.854,0.886,0.778,0.756,0.783,0.831,0.793,0.790,(2.2574)+(0.0563)Ser+(-0.0032)Gly+(-0.1245)His+(-0.0189)Arg+(0.1274)Phe+(-0.1176)Trp;0.854,0.872,0.797,0.782,0.795,0.833,0.817,0.807,(5.3433)+(0.0099)Gln+(-0.1289)His+(0.0182)Thr+(-0.0274)Arg+(0.0676)Ile+(-0.1315)Trp;0.854,0.881,0.808,0.823,0.789,0.825,0.796,0.808,(1.6311)+(0.0486)Ser+(-0.1366)Asn+(-0.0289)Tyr+(-0.0076)Val+(0.1228)Phe+(-0.1297)Trp;0.854,0.877,0.803,0.795,0.755,0.866,0.878,0.824,(7.0970)+(-0.0928)Asn+(0.0211)Thr+(-0.0069)Ala+(-0.0445)Val+(0.1731)Ile+(-0.1189)Trp;0.854,0.877,0.762,0.731,0.754,0.837,0.807,0.782,(3.8953)+(0.0396)Ser+(-0.1007)His+(-0.0001)Pro+(0.1099)Ile+(-0.0254)Leu+(-0.1191)Trp;0.854,0.885,0.806,0.805,0.811,0.821,0.787,0.806,(-0.8636)+(0.0503)Ser+(-0.2974)Met+(-0.0002)Orn+(0.0070)Leu+(0.1283)Phe+(-0.1487)Trp;0.854,0.882,0.801,0.783,0.817,0.822,0.796,0.805,(6.6511)+(-0.0395)Asn+(-0.1151)His+(0.0328)Thr+(-0.0187)Arg+(0.1099)Phe+(-0.1273)Trp;0.854,0.881,0.788,0.764,0.801,0.814,0.805,0.796,(5.6640)+(-0.1249)His+(0.0223)Thr+(0.0131)Orn+(-0.0041)Lys+(0.1008)Phe+(-0.1252)Trp;0.854,0.878,0.802,0.777,0.796,0.856,0.839,0.817,(7.7943)+(-0.0821)His+(0.0234)Thr+(-0.0068)Ala+(-0.0585)Cit+(0.0820)Ile+(-0.1340)Trp;0.854,0.878,0.792,0.768,0.801,0.838,0.803,0.802,(7.7380)+(-0.0941)His+(0.0366)Thr+(-0.0091)Arg+(-0.1902)Met+(0.0774)Ile+(-0.1153)Trp;0.853,0.882,0.818,0.801,0.794,0.858,0.882,0.834,(5.9749)+(0.0333)Tyr+(-0.0488)Val+(-0.2732)Met+(0.0116)Lys+(0.1822)Ile+(-0.1203)Trp;0.853,0.882,0.797,0.791,0.793,0.810,0.815,0.802,(3.5467)+(0.0072)Gln+(-0.1396)His+(0.0200)Thr+(-0.0305)Tyr+(0.1177)Phe+(-0.1204)Trp;0.853,0.883,0.816,0.826,0.808,0.

833,0.793,0.815,(1.8139)+(0.0494)Ser+(-0.1292)Asn+(-0.0154)Arg+(-0.0079)Val+(0.1126)Phe+(-0.1365)Trp;0.853,0.883,0.794,0.779,0.795,0.826,0.812,0.803,(5.5145)+(0.0020)Gly+(-0.1222)His+(0.0231)Thr+(-0.0040)Ala+(0.1120)Phe+(-0.1244)Trp;0.853,0.881,0.766,0.739,0.761,0.838,0.795,0.783,(4.1722)+(0.0450)Ser+(-0.0902)His+(-0.0209)Arg+(0.1274)Ile+(-0.0344)Leu+(-0.1159)Trp;0.853,0.877,0.758,0.718,0.761,0.834,0.799,0.778,(3.9897)+(0.0416)Ser+(-0.1114)His+(0.0129)Orn+(-0.0060)Lys+(0.0761)Ile+(-0.1189)Trp;0.853,0.881,0.795,0.788,0.804,0.820,0.779,0.798,(2.0211)+(0.0545)Ser+(-0.1287)Asn+(-0.0977)Cit+(0.0075)Pro+(0.1091)Phe+(-0.1667)Trp;0.853,0.879,0.769,0.733,0.769,0.844,0.809,0.789,(4.1621)+(0.0487)Ser+(-0.0572)Asn+(-0.1030)His+(0.0091)Tyr+(0.0745)Ile+(-0.1192)Trp;0.853,0.878,0.762,0.728,0.755,0.837,0.808,0.782,(3.8342)+(0.0399)Ser+(-0.1024)His+(0.0045)Tyr+(0.1091)Ile+(-0.0253)Leu+(-0.1211)Trp;0.853,0.879,0.787,0.765,0.798,0.809,0.808,0.795,(5.5664)+(-0.1241)His+(0.0224)Thr+(0.0008)Pro+(-0.0007)Val+(0.1037)Phe+(-0.1276)Trp;0.853,0.879,0.796,0.772,0.802,0.844,0.810,0.807,(1.7687)+(0.0515)Ser+(-0.0472)Asn+(0.0304)Tyr+(-0.2456)Met+(0.0769)Ile+(-0.1522)Trp;0.853,0.877,0.794,0.775,0.804,0.859,0.775,0.803,(5.2235)+(0.0478)Ser+(-0.0871)His+(0.0129)Pro+(0.0338)Tyr+(-0.1721)Met+(-0.1070)Trp;0.853,0.880,0.767,0.739,0.775,0.838,0.770,0.781,(-0.4033)+(0.0585)Ser+(-0.1475)His+(-0.0025)Val+(-0.2779)Met+(0.0150)Orn+(0.1602)Phe;0.853,0.876,0.817,0.810,0.784,0.859,0.873,0.831,(4.9305)+(0.0008)Gly+(0.0047)Gln+(-0.0419)Val+(-0.2217)Met+(0.1715)Ile+(-0.1131)Trp;0.853,0.879,0.826,0.822,0.813,0.843,0.855,0.833,(3.5052)+(0.0095)Gln+(-0.1340)His+(-0.0033)Ala+(0.0012)Lys+(0.1067)Phe+(-0.1183)Trp;0.853,0.883,0.799,0.781,0.800,0.829,0.823,0.808,(5.8222)+(-0.1210)His+(0.0244)Thr+(-0.0042)Ala+(0.0013)Val+(0.1088)Phe+(-0.1273)Trp;0.853,0.880,0.805,0.792,0.780,0.858,0.851,0.820,(6.5462)+(0.0047)Gly+(-0.0529)Cit+(-0.0398)Val+(-0.1568)Met+(0.17

32)Ile+(-0.1147)Trp;0.853,0.879,0.791,0.773,0.735,0.884,0.887,0.820,(1.3510)+(0.0500)Ser+(-0.0061)Gly+(-0.0057)Ala+(-0.0518)Val+(-0.2988)Met+(0.2055)Ile;0.853,0.877,0.786,0.773,0.791,0.849,0.766,0.794,(5.1177)+(0.0440)Ser+(-0.0892)His+(0.0149)Pro+(-0.1640)Met+(0.0121)Lys+(-0.1050)Trp;0.853,0.879,0.791,0.769,0.801,0.829,0.802,0.800,(0.5373)+(0.0105)Gln+(-0.1793)His+(0.0393)Thr+(-0.3774)Met+(0.0103)Leu+(0.1432)Phe;0.853,0.881,0.827,0.839,0.841,0.808,0.781,0.817,(1.6661)+(0.0043)Gln+(0.0376)Thr+(-0.0102)Val+(-0.3675)Met+(0.1471)Phe+(-0.1541)Trp;0.853,0.879,0.806,0.803,0.811,0.826,0.788,0.807,(2.1018)+(0.0529)Ser+(-0.1251)Asn+(-0.0917)Cit+(0.0000)Arg+(0.1151)Phe+(-0.1595)Trp;0.853,0.883,0.801,0.784,0.801,0.830,0.821,0.809,(5.9036)+(-0.1190)His+(0.0256)Thr+(-0.0040)Ala+(-0.0026)Lys+(0.1123)Phe+(-0.1250)Trp;0.853,0.880,0.789,0.766,0.801,0.814,0.807,0.797,(5.7142)+(-0.1235)His+(0.0240)Thr+(0.0000)Val+(-0.0033)Lys+(0.1058)Phe+(-0.1265)Trp;0.853,0.880,0.783,0.761,0.793,0.810,0.798,0.791,(5.2625)+(0.0022)Gly+(-0.1268)His+(0.0212)Thr+(-0.0001)Val+(0.1054)Phe+(-0.1261)Trp;0.853,0.878,0.789,0.769,0.786,0.830,0.821,0.801,(1.9274)+(0.0568)Ser+(-0.0069)Gly+(0.0056)Pro+(-0.2481)Met+(0.0714)Ile+(-0.1480)Trp;0.853,0.880,0.760,0.724,0.774,0.836,0.772,0.776,(-0.6754)+(0.0610)Ser+(-0.1541)His+(-0.2962)Met+(0.0094)Orn+(0.0121)Leu+(0.1492)Phe;0.853,0.881,0.810,0.817,0.826,0.795,0.769,0.802,(3.0139)+(0.0392)Thr+(0.0082)Pro+(-0.0122)Val+(-0.3683)Met+(0.1471)Phe+(-0.1488)Trp;0.853,0.881,0.783,0.761,0.775,0.848,0.811,0.799,(3.2888)+(0.0391)Ser+(-0.0

034)Gly+(-0.0827)Cit+(0.1481)Ile+(-0.0565)Leu+(-0.1646)Trp;0.853,0.884,0.802,0.784,0.791,0.826,0.857,0.814,(3.2800)+(0.0086)Gln+(-0.1346)His+(-0.0222)Tyr+(0.0491)Ile+(0.0865)Phe+(-0.1254)Trp;0.853,0.878,0.782,0.770,0.732,0.856,0.861,0.805,(3.4668)+(0.0310)Ser+(-0.0084)Ala+(-0.0380)Val+(-0.0084)Lys+(0.1711)Ile+(-0.1294)Trp;0.853,0.879,0.765,0.7

32,0.784,0.847,0.752,0.779,(-0.2887)+(0.0592)Ser+(-0.1395)His+(-0.0565)Cit+(-0.2795)Met+(0.0290)Orn+(0.1555)Phe;0.853,0.878,0.796,0.781,0.802,0.831,0.797,0.803,(0.8290)+(0.0106)Gln+(-0.1733)His+(0.0397)Thr+(-0.3593)Met+(-0.0039)Lys+(0.1535)Phe;0.853,0.878,0.817,0.810,0.785,0.857,0.874,0.831,(5.0230)+(0.0048)Gln+(0.0038)Pro+(-0.0421)Val+(-0.2294)Met+(0.1676)Ile+(-0.1133)Trp;0.853,0.873,0.810,0.799,0.783,0.854,0.867,0.825,(5.6444)+(-0.0643)Asn+(0.0086)Gln+(-0.0820)His+(-0.0264)Val+(0.1260)Ile+(-0.1061)Trp;0.853,0.879,0.778,0.760,0.771,0.849,0.792,0.793,(3.2943)+(0.0343)Ser+(-0.0864)Cit+(-0.0040)Tyr+(0.1496)Ile+(-0.0564)Leu+(-0.1629)Trp;0.853,0.875,0.756,0.720,0.757,0.834,0.794,0.776,(4.1211)+(0.0405)Ser+(-0.1107)His+(0.0050)Thr+(-0.0057)Lys+(0.0783)Ile+(-0.1207)Trp;0.853,0.877,0.785,0.762,0.764,0.843,0.847,0.804,(7.6402)+(-0.0653)Asn+(-0.0666)His+(0.0222)Thr+(-0.0329)Val+(0.1409)Ile+(-0.1100)Trp;0.853,0.874,0.810,0.793,0.794,0.848,0.862,0.825,(5.2139)+(0.0088)Gln+(-0.1137)His+(-0.0061)Ala+(0.0042)Pro+(0.0710)Ile+(-0.1230)Trp;0.853,0.880,0.803,0.807,0.803,0.823,0.779,0.803,(2.0225)+(0.0538)Ser+(-0.1193)Asn+(-0.0886)Cit+(-0.0255)Tyr+(0.1286)Phe+(-0.1510)Trp;0.853,0.880,0.809,0.796,0.780,0.852,0.871,0.825,(6.2637)+(0.0054)Pro+(-0.0470)Val+(-0.2383)Met+(0.0121)Lys+(0.1731)Ile+(-0.1140)Trp;0.853,0.881,0.824,0.814,0.813,0.843,0.861,0.833,(3.5808)+(0.0097)Gln+(-0.1388)His+(-0.0040)Ala+(0.0143)Leu+(0.0950)Phe+(-0.1241)Trp;0.853,0.876,0.763,0.725,0.763,0.830,0.815,0.783,(4.0817)+(0.0495)Ser+(-0.0044)Gly+(-0.1050)His+(-0.0055)Lys+(0.0785)Ile+(-0.1200)Trp;0.853,0.880,0.789,0.766,0.801,0.813,0.807,0.797,(5.6983)+(-0.1233)His+(0.0237)Thr+(0.0006)Pro+(-0.0033)Lys+(0.1052)Phe+(-0.1267)Trp;0.853,0.876,0.780,0.770,0.726,0.854,0.866,0.804,(3.0792)+(0.0284)Ser+(-0.0093)Ala+(0.0087)Tyr+(-0.0403)Val+(0.1701)Ile+(-0.1406)Trp;0.853,0.879,0.825,0.801,0.823,0.858,0.865,0.837,(4.4850)+(0.0111)Gln+(-0.1120)His+(0.0277)Tyr+(-0.1

733)Met+(0.0738)Ile+(-0.1210)Trp;0.853,0.881,0.766,0.728,0.771,0.842,0.799,0.785,(4.0528)+(0.0475)Ser+(-0.0017)Gly+(-0.0939)His+(-0.0516)Cit+(0.0804)Ile+(-0.1322)Trp;0.853,0.879,0.812,0.797,0.809,0.826,0.847,0.820,(3.3749)+(0.0094)Gln+(-0.1422)His+(0.0012)Pro+(0.0110)Leu+(0.0897)Phe+(-0.1262)Trp;0.853,0.884,0.807,0.802,0.757,0.837,0.901,0.824,(4.3817)+(-0.0082)Ala+(-0.0196)Arg+(-0.0475)Val+(0.1702)Ile+(0.0862)Phe+(-0.1360)Trp;0.853,0.878,0.775,0.747,0.788,0.808,0.798,0.785,(5.2334)+(0.0025)Gly+(-0.1326)His+(0.0211)Thr+(0.0116)Leu+(0.0948)Phe+(-0.1319)Trp;0.853,0.877,0.768,0.738,0.768,0.843,0.796,0.786,(4.3687)+(0.0496)Ser+(-0.0418)Asn+(-0.0997)His+(-0.0116)Arg+(0.0778)Ile+(-0.1155)Trp;0.853,0.878,0.766,0.736,0.776,0.838,0.768,0.780,(-0.3931)+(0.0595)Ser+(-0.1494)His+(-0.2757)Met+(0.0139)Orn+(-0.0018)Lys+(0.1576)Phe;0.853,0.878,0.765,0.734,0.788,0.805,0.769,0.774,(0.7248)+(0.0373)Ser+(-0.1351)Cit+(0.0265)Orn+(0.0486)Ile+(0.0698)Phe+(-0.2088)Trp;0.853,0.880,0.814,0.805,0.809,0.827,0.842,0.820,(3.3601)+(0.0093)Gln+(-0.1373)His+(0.0025)Pro+(-0.0002)Lys+(0.0993)Phe+(-0.1211)Trp;0.853,0.877,0.760,0.721,0.761,0.830,0.812,0.781,(4.0858)+(0.0458)Ser+(-0.0044)Gly+(-0.1125)His+(0.0049)Thr+(0.0735)Ile+(-0.1262)Trp;0.853,0.878,0.770,0.739,0.765,0.838,0.810,0.788,(3.1649)+(0.0344)Ser+(0.0045)Gln+(-0.1254)His+(0.0044)Orn+(0.0715)Ile+(-0.1246)Trp;0.853,0.879,0.804,0.799,0.810,0.825,0.789,0.806,(2.0574)+(0.0529)Ser+(-0.1248)Asn+(-0.0928)Cit+(0.0040)Leu+(0.1114)Phe+(-0.1627)Trp;0.853,0.881,0.817,0.824,0.798,0.842,0.821,0.821,(1.6512)+(0.0472)Ser+(-0.1285)Asn+(-0.0046)Ala+(-0.0016)Lys+(0.1025)Phe+(-0.1417)Trp;0.853,0.878,0.827,0.834,0.844,0.811,0.782,0.818,(3.9635)+(-0.0513)Asn+(0.0425)Thr+(-0.0111)Val+(-0.3070)Met+(0.1482)Phe+(-0.1449)Trp;0.853,0.880,0.778,0.758,0.771,0.848,0.792,0.792,(3.2032)+(0.0345)Ser+(-0.0879)Cit+(0.0005)Pro+(0.1488)Ile+(-0.0565)Leu+(-0.1656)Trp;0.853,0.879,0.779,0.762,0.775,0.853,0.782,0.793,(

3.4244)+(0.0382)Ser+(-0.0733)Cit+(-0.0168)Arg+(0.1589)Ile+(-0.0613)Le
u+(-0.1577)Trp;0.853,0.878,0.783,0.766,0.760,0.822,0.849,0.799,(3.334
2)+(0.0045)Gly+(-0.0908)Cit+(-0.0399)Val+(0.1444)Ile+(0.0863)Phe+(-0.
1639)Trp;0.853,0.880,0.798,0.797,0.743,0.830,0.893,0.816,(3.8580)+(-0
.0082)Ala+(-0.0189)Tyr+(-0.0445)Val+(0.1615)Ile+(0.0863)Phe+(-0.1394)
Trp;0.853,0.880,0.764,0.731,0.779,0.839,0.768,0.779,(-0.5166)+(0.0631
)Ser+(-0.1441)His+(-0.0353)Cit+(-0.2997)Met+(0.0146)Leu+(0.1543)Phe;0
.853,0.879,0.800,0.783,0.812,0.837,0.791,0.806,(0.7194)+(0.0112)Gln+(
-0.1660)His+(0.0394)Thr+(-0.0460)Cit+(-0.3655)Met+(0.1558)Phe;0.853,0
.876,0.804,0.796,0.761,0.850,0.883,0.822,(-0.2433)+(0.0023)Gly+(0.004
1)Gln+(-0.0636)Val+(-0.4370)Met+(0.1997)Ile+(0.1242)Phe;0.853,0.880,0
.764,0.728,0.771,0.842,0.788,0.782,(4.1408)+(0.0468)Ser+(-0.0937)His+
(-0.0484)Cit+(-0.0076)Arg+(0.0823)Ile+(-0.1306)Trp;0.853,0.879,0.814,
0.798,0.806,0.852,0.844,0.825,(4.5941)+(0.0028)Gly+(0.0100)Gln+(-0.10
91)His+(-0.1396)Met+(0.0768)Ile+(-0.1114)Trp;0.853,0.877,0.784,0.767,
0.731,0.885,0.864,0.812,(1.2558)+(0.0413)Ser+(-0.0001)Gln+(-0.0059)Al
a+(-0.0515)Val+(-0.3037)Met+(0.2054)Ile;0.853,0.877,0.759,0.723,0.765
,0.835,0.785,0.777,(4.1643)+(0.0446)Ser+(-0.1109)His+(-0.0183)Arg+(0.
0158)Orn+(0.0754)Ile+(-0.1217)Trp;0.852,0.878,0.762,0.729,0.773,0.833
,0.778,0.778,(-0.6323)+(0.0632)Ser+(-0.0009)Gly+(-0.1518)His+(-0.2972
)Met+(0.0136)Leu+(0.1509)Phe;0.852,0.879,0.761,0.728,0.774,0.835,0.77
1,0.777,(-0.5887)+(0.0630)Ser+(-0.1515)His+(-0.2914)Met+(-0.0030)Lys+
(0.0148)Leu+(0.1517)Phe;0.852,0.878,0.768,0.752,0.730,0.872,0.816,0.7
93,(1.3742)+(0.0335)Ser+(0.0207)Thr+(0.0039)Pro+(-0.0585)Val+(-0.4193
)Met+(0.2064)Ile;0.852,0.877,0.811,0.801,0.773,0.860,0.879,0.828,(6.4
716)+(0.0025)Gly+(-0.0048)Ala+(-0.0429)Val+(-0.1624)Met+(0.1843)Ile+(
-0.1053)Trp;0.852,0.878,0.781,0.763,0.732,0.883,0.859,0.809,(1.1897)+
(0.0392)Ser+(-0.0061)Ala+(-0.0532)Val+(-0.3108)Met+(0.0163)Orn+(0.203

8)Ile;0.852,0.877,0.785,0.763,0.794,0.838,0.789,0.796,(1.3956)+(0.043
8)Ser+(0.0107)Thr+(0.0265)Tyr+(-0.3095)Met+(0.0781)Ile+(-0.1584)Trp;0
.852,0.877,0.808,0.787,0.788,0.854,0.871,0.825,(6.0830)+(0.0274)Tyr+(
-0.0477)Val+(-0.2427)Met+(0.0224)Orn+(0.1787)Ile+(-0.1119)Trp;0.852,0
.883,0.799,0.796,0.779,0.833,0.826,0.808,(1.7192)+(0.0501)Ser+(-0.160
3)Asn+(-0.0338)Val+(0.0531)Leu+(0.1032)Phe+(-0.1381)Trp;0.852,0.874,0
.741,0.706,0.723,0.831,0.803,0.766,(0.2788)+(0.0567)Ser+(-0.1190)Asn+
(-0.1350)His+(0.1092)Ile+(-0.0537)Leu+(0.1080)Phe;0.852,0.880,0.797,0
.779,0.761,0.844,0.886,0.817,(3.1454)+(-0.0745)His+(-0.0547)Val+(-0.3
500)Met+(0.0122)Lys+(0.1769)Ile+(0.1281)Phe;0.852,0.877,0.804,0.776,0
.810,0.847,0.832,0.816,(4.9631)+(0.0087)Gln+(-0.1038)His+(-0.0743)Cit
+(0.0301)Orn+(0.0646)Ile+(-0.1374)Trp;0.852,0.876,0.805,0.792,0.780,0
.848,0.862,0.820,(6.0536)+(-0.0476)Val+(-0.2262)Met+(0.0210)Orn+(0.00
84)Lys+(0.1759)Ile+(-0.1117)Trp;0.852,0.875,0.794,0.777,0.758,0.843,0
.877,0.814,(7.3653)+(-0.0580)His+(-0.0071)Ala+(0.0066)Pro+(-0.0320)Va
l+(0.1483)Ile+(-0.1074)Trp;0.852,0.879,0.763,0.745,0.725,0.803,0.859,
0.783,(0.9591)+(0.0391)Ser+(-0.0079)Gly+(-0.0443)Val+(0.1422)Ile+(0.0
645)Phe+(-0.1623)Trp;0.852,0.879,0.810,0.791,0.788,0.860,0.870,0.827,
(5.7756)+(0.0039)Gly+(0.0383)Tyr+(-0.0467)Val+(-0.2569)Met+(0.1836)Il
e+(-0.1143)Trp;0.852,0.881,0.824,0.817,0.814,0.843,0.851,0.831,(3.646
0)+(0.0090)Gln+(-0.1340)His+(-0.0036)Ala+(0.0128)Orn+(0.1016)Phe+(-0.
1170)Trp;0.852,0.879,0.791,0.783,0.760,0.859,0.824,0.807,(3.3329)+(0.
0378)Ser+(-0.0079)Ala+(-0.0279)Arg+(0.1839)Ile+(-0.0729)Leu+(-0.1355)
Trp;0.852,0.872,0.808,0.791,0.792,0.853,0.855,0.823,(5.0919)+(0.0015)
Gly+(0.0086)Gln+(-0.1152)His+(-0.0052)Ala+(0.0749)Ile+(-0.1217)Trp;0.
852,0.872,0.794,0.776,0.783,0.834,0.835,0.807,(4.9946)+(0.0071)Gln+(-
0.1122)His+(0.0082)Thr+(0.0973)Ile+(-0.0242)Leu+(-0.1247)Trp;0.852,0.
880,0.785,0.770,0.793,0.854,0.757,0.793,(5.2454)+(0.0427)Ser+(-0.0893

)His+(0.0128)Pro+(-0.1353)Met+(0.0258)Orn+(-0.0967)Trp;0.852,0.876,0.778,0.763,0.781,0.830,0.772,0.787,(1.9164)+(0.0412)Ser+(0.0121)Thr+(0.0039)Pro+(-0.2827)Met+(0.0736)Ile+(-0.1507)Trp;0.852,0.881,0.814,0.818,0.799,0.842,0.813,0.818,(1.9232)+(0.0435)Ser+(-0.1443)Asn+(0.0099)Thr+(-0.0054)Ala+(0.1007)Phe+(-0.1471)Trp;0.852,0.878,0.800,0.784,0.806,0.834,0.804,0.807,(0.8099)+(-0.0227)Asn+(0.0109)Gln+(-0.1714)His+(0.0386)Thr+(-0.3481)Met+(0.1501)Phe;0.852,0.880,0.795,0.774,0.763,0.843,0.882,0.816,(3.5896)+(-0.0679)His+(0.0029)Pro+(-0.0520)Val+(-0.3232)Met+(0.1738)Ile+(0.1267)Phe;0.852,0.879,0.808,0.799,0.804,0.826,0.829,0.814,(3.1456)+(0.0021)Gly+(0.0088)Gln+(-0.1388)His+(0.0023)Pro+(0.1017)Phe+(-0.1212)Trp;0.852,0.878,0.811,0.796,0.809,0.828,0.842,0.819,(3.4528)+(0.0091)Gln+(-0.1427)His+(0.0078)Orn+(0.0107)Leu+(0.0876)Phe+(-0.1253)Trp;0.852,0.879,0.777,0.748,0.784,0.813,0.816,0.790,(5.6002)+(-0.1272)His+(0.0250)Thr+(-0.0200)Val+(0.0420)Leu+(0.0955)Phe+(-0.1319)Trp;0.852,0.874,0.820,0.806,0.804,0.859,0.866,0.834,(5.3744)+(-0.0314)Asn+(0.0100)Gln+(-0.1099)His+(-0.0046)Ala+(0.0719)Ile+(-0.1187)Trp;0.852,0.879,0.819,0.803,0.810,0.853,0.856,0.831,(4.7484)+(0.0105)Gln+(-0.1072)His+(0.0028)Pro+(-0.1402)Met+(0.0718)Ile+(-0.1131)Trp;0.852,0.884,0.775,0.753,0.784,0.837,0.773,0.787,(2.0608)+(0.0535)Ser+(-0.1137)His+(-0.0506)Cit+(-0.0114)Arg+(0.1377)Phe+(-0.1297)Trp;0.852,0.882,0.813,0.820,0.804,0.822,0.808,0.813,(0.9136)+(0.0449)Ser+(-0.1460)Asn+(0.0028)Gln+(-0.0037)Lys+(0.0930)Phe+(-0.1491)Trp;0.852,0.878,0.811,0.804,0.806,0.829,0.831,0.817,(3.1491)+(0.0022)Gly+(0.0089)Gln+(-0.1389)His+(0.0001)Lys+(0.1040)Phe+(-0.1199)Trp;0.852,0.877,0.755,0.741,0.719,0.803,0.833,0.774,(0.4912)+(0.0276)Ser+(-0.0361)Val+(0.1617)Ile+(-0.0281)Leu+(0.0717)Phe+(-0.1623)Trp;0.852,0.873,0.801,0.782,0.781,0.848,0.857,0.817,(5.1363)+(0.0079)Gln+(-0.0813)His+(-0.0542)Cit+(-0.0222)Val+(0.1252)Ile+(-0.1256)Trp;0.852,0.877,0.797,0.782,0.770,

0.825,0.871,0.812,(3.2245)+(0.0026)Gln+(-0.0878)Cit+(-0.0389)Val+(0.1398)Ile+(0.0798)Phe+(-0.1658)Trp;0.852,0.877,0.762,0.766,0.734,0.788,0.792,0.770,(0.3870)+(0.0286)Ser+(-0.0492)Tyr+(0.1432)Ile+(-0.0761)Leu+(0.0967)Phe+(-0.1513)Trp;0.

852,0.875,0.815,0.803,0.798,0.850,0.854,0.826,(5.2074)+(-0.0474)Asn+(0.0096)Gln+(-0.0978)His+(0.1047)Ile+(-0.0303)Leu+(-0.1153)Trp;0.852,0.877,0.796,0.769,0.800,0.836,0.832,0.809,(1.3947)+(0.0575)Ser+(-0.0061)Gly+(0.0278)Tyr+(-0.2791)Met+(0.0783)Ile+(-0.1559)Trp;0.852,0.873,0.790,0.766,0.779,0.842,0.841,0.807,(7.4444)+(-0.1007)His+(0.0196)Thr+(-0.0064)Ala+(0.0028)Pro+(0.0730)Ile+(-0.1269)Trp;0.852,0.876,0.784,0.754,0.776,0.843,0.835,0.802,(6.9960)+(-0.0578)His+(-0.0728)Cit+(-0.0310)Val+(0.0466)Orn+(0.1347)Ile+(-0.1209)Trp;0.852,0.878,0.797,0.782,0.803,0.831,0.800,0.804,(0.6370)+(0.0106)Gln+(-0.1744)His+(0.0392)Thr+(-0.3678)Met+(-0.0054)Orn+(0.1546)Phe;0.852,0.879,0.791,0.771,0.797,0.844,0.793,0.801,(3.9162)+(0.0465)Ser+(-0.0915)Asn+(-0.0822)Cit+(-0.0002)Arg+(0.0699)Ile+(-0.1634)Trp;0.852,0.877,0.798,0.788,0.809,0.833,0.774,0.801,(0.6978)+(0.0125)Gln+(-0.1732)His+(0.0460)Thr+(-0.0267)Arg+(-0.3707)Met+(0.1570)Phe;0.852,0.877,0.779,0.764,0.783,0.832,0.775,0.788,(2.0330)+(0.0403)Ser+(0.0138)Thr+(-0.2739)Met+(-0.0048)Orn+(0.0800)Ile+(-0.1513)Trp;0.852,0.876,0.792,0.776,0.778,0.850,0.821,0.806,(2.0378)+(0.0455)Ser+(-0.0051)Ala+(-0.1965)Met+(-0.0034)Lys+(0.0891)Ile+(-0.1389)Trp;0.852,0.880,0.791,0.770,0.798,0.845,0.796,0.802,(3.8552)+(0.0468)Ser+(-0.0941)Asn+(-0.0835)Cit+(0.0047)Tyr+(0.0695)Ile+(-0.1656)Trp;0.852,0.876,0.818,0.814,0.783,0.860,0.873,0.833,(4.9377)+(0.0050)Gln+(-0.0373)Val+(-0.2160)Met+(0.1805)Ile+(-0.0146)Leu+(-0.1124)Trp;0.852,0.879,0.819,0.804,0.835,0.849,0.801,0.823,(4.3746)+(0.0057)Gln+(0.0253)Thr+(-0.0817)Cit+(-0.2352)Met+(0.0731)Ile+(-0.1647)Trp;0.852,0.880,0.785,0.764,0.795,0.812,0.797,0.792,(5.3883)+(0.0021)Gly+

(-0.1257)His+(0.0224)Thr+(-0.0028)Lys+(0.1072)Phe+(-0.1249)Trp;0.852,0.881,0.775,0.748,0.758,0.865,0.815,0.796,(1.2623)+(0.0412)Ser+(0.0060)Gln+(-0.1237)His+(-0.2381)Met+(0.1300)Ile+(-0.0348)Leu;0.852,0.879,0.767,0.736,0.776,0.838,0.777,0.782,(-0.4055)+(0.0610)Ser+(-0.0015)Gly+(-0.1489)His+(-0.2792)Met+(0.0138)Orn+(0.1556)Phe;0.852,0.879,0.823,0.821,0.845,0.823,0.778,0.817,(3.9070)+(0.0434)Thr+(-0.0031)Ala+(-0.0843)Cit+(-0.3053)Met+(0.1543)Phe+(-0.1708)Trp;0.852,0.876,0.806,0.797,0.775,0.849,0.862,0.821,(5.9610)+(0.0023)Gly+(-0.0463)Val+(-0.2302)Met+(0.0112)Lys+(0.1788)Ile+(-0.1132)Trp;0.852,0.876,0.761,0.722,0.761,0.829,0.813,0.781,(3.9413)+(0.0479)Ser+(-0.0042)Gly+(-0.1096)His+(0.0012)Pro+(0.0732)Ile+(-0.1246)Trp;0.852,0.881,0.797,0.777,0.774,0.827,0.875,0.813,(4.4418)+(-0.0828)Cit+(-0.0391)Val+(-0.0083)Lys+(0.1468)Ile+(0.0897)Phe+(-0.1526)Trp;0.852,0.876,0.787,0.773,0.785,0.835,0.795,0.797,(2.3472)+(0.0493)Ser+(-0.0490)Asn+(0.0049)Pro+(-0.2083)Met+(0.0706)Ile+(-0.1424)Trp;0.852,0.875,0.815,0.803,0.773,0.864,0.896,0.834,(7.5019)+(-0.0309)Asn+(-0.0069)Ala+(-0.0582)Cit+(-0.0383)Val+(0.1722)Ile+(-0.1194)Trp;0.852,0.879,0.823,0.807,0.814,0.856,0.860,0.834,(4.8460)+(-0.0099)Asn+(0.0108)Gln+(-0.1066)His+(-0.1262)Met+(0.0737)Ile+(-0.1124)Trp;0.852,0.879,0.808,0.797,0.805,0.831,0.829,0.815,(3.2440)+(0.0020)Gly+(0.0085)Gln+(-0.1395)His+(0.0098)Orn+(0.0992)Phe+(-0.1195)Trp;0.852,0.873,0.789,0.763,0.782,0.839,0.835,0.805,(7.3684)+(-0.1059)His+(0.0183)Thr+(-0.0060)Ala+(0.0163)Orn+(0.0713)Ile+(-0.1264)Trp;0.852,0.876,0.768,0.743,0.775,0.835,0.770,0.781,(-0.3541)+(0.0601)Ser+(-0.1466)His+(0.0001)Ala+(-0.0006)Val+(-0.2801)Met+(0.1633)Phe;0.852,0.875,0.800,0.778,0.799,0.847,0.829,0.813,(4.5386)+(0.0039)Gly+(0.0092)Gln+(-0.1055)His+(-0.0620)Cit+(0.0754)Ile+(-0.1355)Trp;0.852,0.879,0.783,0.756,0.743,0.891,0.856,0.812,(1.5799)+(0.0508)Ser+(-0.0815)Asn+(0.0362)Tyr+(-0.0607)Val+(-0.3299)Met+(0.2119)Ile;0.852,0.875,0.7

91,0.772,0.787,0.833,0.822,0.803,(2.0568)+(0.0559)Ser+(-0.0066)Gly+(-0.2220)Met+(-0.0032)Lys+(0.0794)Ile+(-0.1451)Trp;0.852,0.875,0.754,0.718,0.756,0.830,0.793,0.774,(3.9426)+(0.0401)Ser+(-0.1143)His+(0.0033)Thr+(0.0002)Pro+(0.0746)Ile+(-0.1241)Trp;0.852,0.876,0.816,0.807,0.783,0.855,0.877,0.831,(6.7732)+(-0.0293)Asn+(-0.0472)Val+(-0.2023)Met+(0.0130)Lys+(0.1772)Ile+(-0.1096)Trp;0.852,0.873,0.806,0.792,0.781,0.850,0.861,0.821,(6.7859)+(-0.0303)Asn+(-0.0466)Val+(-0.1775)Met+(0.0287)Orn+(0.1739)Ile+(-0.1025)Trp;0.852,0.871,0.800,0.786,0.764,0.849,0.878,0.819,(7.6985)+(-0.0179)Asn+(-0.0532)His+(-0.0053)Ala+(-0.0328)Val+(0.1541)Ile+(-0.1033)Trp;0.852,0.879,0.768,0.741,0.778,0.838,0.770,0.782,(-0.1745)+(0.0615)Ser+(-0.0340)Asn+(-0.1450)His+(-0.2560)Met+(0.0135)Orn+(0.1559)Phe;0.852,0.877,0.793,0.781,0.797,0.827,0.793,0.799,(0.7834)+(0.0101)Gln+(-0.1708)His+(0.0391)Thr+(-0.0172)Tyr+(-0.3430)Met+(0.1564)Phe;0.852,0.878,0.771,0.748,0.777,0.838,0.775,0.784,(-0.0644)+(0.0625)Ser+(-0.0332)Asn+(-0.1421)His+(-0.0003)Ala+(-0.2542)Met+(0.1614)Phe;0.852,0.874,0.798,0.787,0.750,0.885,0.865,0.822,(5.2881)+(-0.0564)Asn+(0.0341)Thr+(-0.0049)Ala+(-0.0600)Val+(-0.3106)Met+(0.2147)Ile;0.852,0.880,0.773,0.759,0.750,0.796,0.841,0.786,(0.4540)+(0.0398)Ser+(-0.0085)Gly+(0.1380)Ile+(-0.0723)Leu+(0.0645)Phe+(-0.1674)Trp;0.852,0.879,0.814,0.802,0.812,0.831,0.840,0.821,(3.4315)+(0.0090)Gln+(-0.1396)His+(0.0015)Val+(0.0094)Orn+(0.0948)Phe+(-0.1210)Trp;0.852,0.879,0.813,0.802,0.773,0.861,0.893,0.832,(-0.4061)+(0.0067)Gln+(-0.0587)Cit+(-0.0616)Val+(-0.4239)Met+(0.1981)Ile+(0.1297)Phe;0.852,0.873,0.788,0.766,0.768,0.835,0.850,0.805,(7.3995)+(-0.0418)Asn+(-0.0643)His+(-0.0341)Val+(0.0297)Orn+(0.1378)Ile+(-0.1024)Trp;0.852,0.879,0.793,0.787,0.760,0.816,0.864,0.807,(4.2104)+(-0.0802)Cit+(-0.0345)Tyr+(-0.0405)Val+(0.1468)Ile+(0.1029)Phe+(-0.1473)Trp;0.852,0.878,0.811,0.798,0.802,0.831,0.852,0.821,(3.5271)+(0.0091)Gln+(-0.1383)His+(-0.011

9)Val+(0.0302)Leu+(0.0917)Phe+(-0.1247)Trp;0.852,0.882,0.818,0.828,0.813,0.824,0.795,0.815,(0.9168)+(0.0459)Ser+(-0.1370)Asn+(0.0035)Gln+(-0.0190)Arg+(0.0965)Phe+(-0.1512)Trp;0.852,0.873,0.806,0.805,0.798,0.855,0.792,0.812,(4.6410)+(0.0370)Ser+(-0.0852)Asn+(0.0080)Gln+(-0.1015)His+(0.0097)Pro+(-0.0994)Trp;0.852,0.875,0.800,0.793,0.778,0.852,0.828,0.813,(2.9510)+(0.0376)Ser+(-0.1224)Asn+(0.0031)Gln+(0.1383)Ile+(-0.0580)Leu+(-0.1368)Trp;0.852,0.883,0.798,0.779,0.800,0.829,0.820,0.807,(5.7516)+(-0.1216)His+(0.0224)Thr+(-0.0042)Ala+(0.0134)Orn+(0.1049)Phe+(-0.1251)Trp;0.851,0.878,0.787,0.770,0.815,0.826,0.745,0.789,(2.0021)+(0.0389)Ser+(-0.1405)Cit+(0.0490)Orn+(-0.0184)Lys+(0.1042)Phe+(-0.1758)Trp;0.851,0.879,0.762,0.735,0.745,0.845,0.810,0.784,(4.4039)+(0.0428)Ser+(-0.0811)His+(-0.0219)Arg+(-0.0271)Val+(0.1440)Ile+(-0.1118)Trp;0.851,0.877,0.772,0.751,0.777,0.839,0.773,0.785,(-0.0102)+(0.0625)Ser+(-0.0367)Asn+(-0.1396)His+(-0.0020)Val+(-0.2513)Met+(0.1643)Phe;0.851,0.881,0.811,0.794,0.789,0.852,0.873,0.827,(7.1486)+(-0.0460)Cit+(0.0055)Pro+(-0.0406)Val+(-0.1585)Met+(0.1664)Ile+(-0.1138)Trp;0.851,0.875,0.796,0.787,0.752,0.847,0.871,0.814,(1.9807)+(-0.0542)Asn+(0.0051)Gly+(-0.0650)Val+(-0.3525)Met+(0.2017)Ile+(0.1246)Phe;0.851,0.876,0.779,0.764,0.781,0.835,0.772,0.788,(2.1648)+(0.0408)Ser+(0.0145)Thr+(-0.2629)Met+(-0.0055)Lys+(0.0807)Ile+(-0.1477)Trp;0.851,0.888,0.783,0.773,0.738,0.854,0.849,0.804,(-4.0834)+(0.0480)Ser+(-0.0079)Ala+(-0.3698)Met+(0.1997)Ile+(-0.0977)Leu+(0.1268)Phe;0.851,0.877,0.809,0.794,0.779,0.854,0.883,0.827,(7.6850)+(-0.0422)His+(-0.0038)Ala+(-0.0359)Val+(-0.1162)Met+(0.1687)Ile+(-0.0943)Trp;0.851,0.879,0.780,0.750,0.795,0.808,0.808,0.790,(5.5569)+(-0.1309)His+(0.0213)Thr+(0.0102)Orn+(0.0100)Leu+(0.0898)Phe+(-0.1327)Trp;0.851,0.870,0.791,0.770,0.787,0.829,0.827,0.803,(5.0167)+(0.0004)Gly+(0.0074)Gln+(-0.1265)His+(0.0106)Thr+(0.0640)Ile+(-0.1293)Trp;0.851,0.879,0.780,0.755,0.756,0.885,

0.818,0.803,(1.6919)+(0.0391)Ser+(-0.0696)Cit+(-0.0527)Val+(-0.3268)Met+(0.0328)Orn+(0.1885)Ile;0.851,0.879,0.794,0.772,0.798,0.842,0.807,0.805,(3.9604)+(0.0498)Ser+(-0.0904)Asn+(-0.0025)Gly+(-0.0784)Cit+(0.0687)Ile+(-0.1634)Trp;0.851,0.874,0.814,0.809,0.792,0.858,0.842,0.825,(6.0479)+(0.0216)Thr+(-0.0062)Ala+(-0.1864)Met+(0.1574)Ile+(-0.0579)Leu+(-0.1307)Trp;0.851,0.877,0.830,0.823,0.817,0.866,0.850,0.839,(4.2629)+(0.0076)Gln+(-0.0721)Cit+(-0.1497)Met+(0.1562)Ile+(-0.0593)Leu+(-0.1396)Trp;0.851,0.878,0.796,0.779,0.803,0.830,0.799,0.803,(0.6681)+(0.0104)Gln+(-0.1742)His+(0.0382)Thr+(-0.0001)Ala+(-0.3632)Met+(0.1519)Phe;0.851,0.871,0.793,0.783,0.744,0.878,0.862,0.817,(4.2961)+(-0.0004)Gly+(0.0317)Thr+(-0.0054)Ala+(-0.0588)Val+(-0.3584)Met+(0.2143)Ile;0.851,0.883,0.766,0.753,0.748,0.803,0.811,0.778,(0.3092)+(0.0331)Ser+(-0.0136)Lys+(0.1358)Ile+(-0.0650)Leu+(0.0741)Phe+(-0.1596)Trp;0.851,0.880,0.783,0.766,0.757,0.830,0.848,0.800,(0.4951)+(0.0384)Ser+(-0.0098)Ala+(-0.0168)Lys+(0.0710)Ile+(0.0694)Phe+(-0.1642)Trp;0.851,0.882,0.795,0.771,0.796,0.831,0.827,0.806,(5.8685)+(-0.1258)His+(0.0249)Thr+(-0.0048)Ala+(0.0143)Leu+(0.0990)Phe+(-0.1330)Trp;0.851,0.877,0.765,0.748,0.727,0.874,0.813,0.791,(1.7317)+(0.0344)Ser+(-0.0013)Gln+(0.0219)Thr+(-0.0587)Val+(-0.4059)Met+(0.2130)Ile;0.851,0.877,0.817,0.803,0.820,0.857,0.818,0.825,(6.5034)+(0.0293)Thr+(-0.0066)Ala+(-0.0787)Cit+(-0.1750)Met+(0.0828)Ile+(-0.1511)Trp;0.851,0.877,0.799,0.782,0.792,0.836,0.831,0.810,(1.4012)+(0.0531)Ser+(-0.0070)Gly+(0.0024)Gln+(-0.2424)Met+(0.0768)Ile+(-0.1501)Trp;0.851,0.880,0.799,0.801,0.796,0.817,0.788,0.800,(1.7343)+(0.0447)Ser+(-0.1437)Asn+(0.0082)Thr+(-0.0051)Lys+(0.0941)Phe+(-0.1497)Trp;0.851,0.875,0.806,0.796,0.764,0.851,0.889,0.825,(-0.0565)+(0.0044)Gln+(-0.0639)Val+(-0.4315)Met+(0.0049)Orn+(0.1988)Ile+(0.1210)Phe;0.851,0.880,0.815,0.804,0.813,0.833,0.839,0.822,(3.4671)+(0.0089)Gln+(-0.1378)His+(0.0107)Orn+(-0.0008)Lys+(0.0970)

Phe+(-0.1189)Trp;0.851,0.879,0.786,0.763,0.798,0.812,0.805,0.795,(5.5
054)+(-0.1253)His+(0.0208)Thr+(-0.0013)Val+(0.0127)Orn+(0.0999)Phe+(-
0.1259)Trp;0.851,0.878,0.782,0.754,0.797,0.808,0.810,0.792,(5.6269)+(
-0.1303)His+(0.0232)Thr+(-0.0007)Pro+(0.0113)Leu+(0.0938)Phe+(-0.1337
)Trp;0.851,0.877,0.761,0.721,0.763,0.833,0.814,0.783,(3.9640)+(0.0465
)Ser+(-0.0041)Gly+(-0.1125)His+(0.0105)Orn+(0.0717)Ile+(-0.1244)Trp;0
.851,0.875,0.815,0.805,0.776,0.858,0.890,0.832,(6.9793)+(-0.0083)Asn+
(-0.0047)Ala+(-0.0430)Val+(-0.1454)Met+(0.1826)Ile+(-0.1040)Trp;0.851
,0.873,0.816,0.821,0.808,0.868,0.786,0.821,(5.4461)+(0.0299)Ser+(-0.0
887)Asn+(0.0080)Gln+(-0.1021)His+(0.0132)Thr+(-0.1009)Trp;0.851,0.873
,0.791,0.781,0.794,0.854,0.768,0.799,(5.8291)+(0.0466)Ser+(-0.0335)As
n+(-0.0781)His+(0.0141)Pro+(-0.1006)Met+(-0.0962)Trp;0.851,0.871,0.78
3,0.764,0.762,0.831,0.841,0.7
99,(5.3017)+(0.0054)Gln+(-0.0992)His+(0.0106)Thr+(-0.0234)Val+(0.1197
)Ile+(-0.1201)Trp;0.851,0.881,0.821,0.818,0.814,0.841,0.826,0.825,(3.
0865)+(0.0029)Gly+(0.0112)Gln+(-0.1395)His+(-0.0212)Arg+(0.1112)Phe+(
-0.1170)Trp;0.851,0.881,0.824,0.820,0.820,0.834,0.838,0.828,(3.3690)+
(0.0116)Gln+(-0.1376)His+(-0.0211)Arg+(0.0036)Pro+(0.1040)Phe+(-0.118
9)Trp;0.851,0.876,0.758,0.723,0.763,0.832,0.786,0.776,(4.1042)+(0.046
2)Ser+(-0.1074)His+(-0.0167)Arg+(0.0022)Pro+(0.0766)Ile+(-0.1218)Trp;
0.851,0.873,0.791,0.768,0.780,0.843,0.839,0.808,(7.5912)+(-0.1003)His
+(0.0213)Thr+(-0.0058)Ala+(-0.0026)Lys+(0.0766)Ile+(-0.1258)Trp;0.851
,0.875,0.805,0.795,0.762,0.849,0.887,0.823,(-0.0824)+(0.0046)Gln+(0.0
022)Pro+(-0.0636)Val+(-0.4385)Met+(0.1972)Ile+(0.1225)Phe;0.851,0.880
,0.782,0.760,0.792,0.810,0.798,0.790,(5.2454)+(0.0022)Gly+(-0.1267)Hi
s+(0.0209)Thr+(0.0006)Pro+(0.1046)Phe+(-0.1263)Trp;0.851,0.874,0.805,
0.799,0.760,0.848,0.885,0.823,(-0.2290)+(0.0047)Gln+(-0.0552)Val+(-0.
4250)Met+(0.2188)Ile+(-0.0279)Leu+(0.1251)Phe;0.851,0.876,0.780,0.766

,0.789,0.836,0.757,0.787,(2.4262)+(0.0414)Ser+(0.0179)Thr+(-0.0170)Ar
g+(-0.2644)Met+(0.0788)Ile+(-0.1496)Trp;0.851,0.873,0.813,0.793,0.798
,0.854,0.867,0.828,(5.1283)+(0.0090)Gln+(-0.1180)His+(-0.0058)Ala+(0.
0126)Tyr+(0.0737)Ile+(-0.1270)Trp;0.851,0.877,0.755,0.738,0.720,0.799
,0.837,0.774,(0.5779)+(0.0291)Ser+(-0.0439)Val+(-0.0092)Orn+(0.1428)I
le+(0.0747)Phe+(-0.1692)Trp;0.851,0.873,0.813,0.796,0.797,0.853,0.861
,0.827,(5.2317)+(0.0090)Gln+(-0.1137)His+(-0.0051)Ala+(-0.0012)Lys+(0
.0748)Ile+(-0.1214)Trp;0.851,0.880,0.781,0.757,0.792,0.811,0.797,0.78
9,(5.2102)+(0.0021)Gly+(-0.1283)His+(0.0194)Thr+(0.0117)Orn+(0.1001)P
he+(-0.1254)Trp;0.851,0.874,0.809,0.805,0.794,0.817,0.846,0.816,(4.31
23)+(-0.0885)Asn+(0.0106)Thr+(0.1282)Ile+(-0.0692)Leu+(0.0732)Phe+(-0
.1469)Trp;0.851,0.876,0.792,0.766,0.792,0.845,0.823,0.806,(7.1411)+(-
0.0729)His+(0.0167)Thr+(-0.0534)Cit+(0.1111)Ile+(-0.0310)Leu+(-0.1311
)Trp;0.851,0.875,0.742,0.710,0.695,0.849,0.849,0.776,(0.4469)+(0.0407
)Ser+(-0.1301)His+(-0.0082)Ala+(-0.0306)Val+(0.1215)Ile+(0.0814)Phe;0
.851,0.880,0.810,0.785,0.794,0.855,0.878,0.828,(7.3511)+(-0.0459)His+
(0.0320)Tyr+(-0.0383)Val+(-0.1833)Met+(0.1663)Ile+(-0.1019)Trp;0.851,
0.877,0.769,0.742,0.776,0.835,0.775,0.782,(-0.3309)+(0.0615)Ser+(-0.0
011)Gly+(-0.1463)His+(0.0000)Ala+(-0.2791)Met+(0.1613)Phe;0.851,0.880
,0.814,0.795,0.790,0.853,0.883,0.830,(6.3936)+(0.0032)Pro+(0.0306)Tyr
+(-0.0459)Val+(-0.2384)Met+(0.1768)Ile+(-0.1129)Trp;0.851,0.881,0.784
,0.771,0.775,0.818,0.813,0.794,(0.9148)+(0.0494)Ser+(-0.1255)Asn+(-0.
0095)Lys+(0.0479)Ile+(0.0732)Phe+(-0.1565)Trp;0.851,0.878,0.780,0.769
,0.784,0.796,0.791,0.785,(5.5484)+(-0.1228)His+(0.0272)Thr+(-0.0349)T
yr+(0.0006)Val+(0.1206)Phe+(-0.1197)Trp;0.851,0.872,0.794,0.773,0.789
,0.830,0.831,0.806,(5.2285)+(0.0077)Gln+(-0.1239)His+(0.0126)Thr+(-0.
0055)Lys+(0.0669)Ile+(-0.1273)Trp;0.851,0.880,0.786,0.768,0.748,0.886
,0.839,0.810,(2.7468)+(0.0476)Ser+(-0.0793)Asn+(-0.0445)Cit+(-0.0519)

Val+(-0.2464)Met+(0.1946)Ile;0.851,0.875,0.833,0.828,0.814,0.868,0.860,0.843,(4.8479)+(-0.0763)Asn+(0.0085)Gln+(-0.0834)Cit+(0.1455)Ile+(-0.0584)Leu+(-0.1487)Trp;0.851,0.871,0.791,0.778,0.754,0.844,0.864,0.810,(7.0906)+(0.0024)Gly+(-0.0624)His+(-0.0056)Ala+(-0.0304)Val+(0.1505)Ile+(-0.1068)Trp;0.851,0.878,0.814,0.813,0.845,0.807,0.759,0.806,(3.7261)+(0.0437)Thr+(-0.0850)Cit+(-0.0065)Tyr+(-0.3192)Met+(0.1540)Phe+(-0.1719)Trp;0.851,0.878,0.761,0.729,0.772,0.832,0.772,0.776,(-0.6177)+(0.0618)Ser+(-0.1521)His+(-0.0036)Tyr+(-0.2930)Met+(0.0137)Leu+(0.1524)Phe;0.851,0.876,0.756,0.717,0.759,0.833,0.794,0.776,(3.9180)+(0.0395)Ser+(-0.1163)His+(0.0021)Thr+(0.0094)Orn+(0.0725)Ile+(-0.1240)Trp;0.851,0.875,0.768,0.737,0.782,0.797,0.800,0.779,(0.6560)+(0.0427)Ser+(-0.0028)Gly+(-0.1095)Cit+(0.0543)Ile+(0.0736)Phe+(-0.2055)Trp;0.851,0.874,0.805,0.796,0.761,0.857,0.883,0.824,(6.8920)+(-0.0692)Asn+(-0.0067)Ala+(-0.0450)Val+(0.0271)Orn+(0.1680)Ile+(-0.1099)Trp;0.851,0.874,0.814,0.805,0.776,0.856,0.886,0.831,(6.8277)+(-0.0049)Ala+(-0.0383)Val+(-0.1479)Met+(0.1921)Ile+(-0.0143)Leu+(-0.1044)Trp;0.851,0.878,0.764,0.734,0.777,0.834,0.766,0.778,(-0.5475)+(0.0641)Ser+(-0.1493)His+(-0.0106)Arg+(-0.2849)Met+(0.0127)Leu+(0.1540)Phe;0.851,0.876,0.809,0.799,0.758,0.859,0.907,0.831,(2.5979)+(-0.0349)Asn+(-0.0047)Ala+(-0.0632)Val+(-0.3179)Met+(0.2059)Ile+(0.1191)Phe;0.851,0.874,0.812,0.791,0.808,0.847,0.852,0.825,(4.9215)+(0.0105)Gln+(-0.1017)His+(-0.0587)Cit+(-0.0051)Lys+(0.0764)Ile+(-0.1325)Trp;0.851,0.871,0.788,0.765,0.775,0.841,0.833,0.804,(7.2283)+(0.0018)Gly+(-0.1031)His+(0.0189)Thr+(-0.0058)Ala+(0.0762)Ile+(-0.1254)Trp;0.851,0.878,0.817,0.799,0.811,0.854,0.852,0.829,(4.8284)+(0.0100)Gln+(-0.1091)His+(-0.1330)Met+(0.0094)Orn+(0.0716)Ile+(-0.1126)Trp;0.851,0.882,0.807,0.813,0.800,0.812,0.800,0.806,(1.0933)+(0.0426)Ser+(-0.1601)Asn+(0.0025)Gln+(0.0055)Thr+(0.0897)Phe+(-0.1540)Trp;0.851,0.882,0.799,0.786,0.816,0.783,0.806,0.798

,(2.3486)+(0.0402)Thr+(-0.3781)Met+(-0.0258)Orn+(0.0577)Ile+(0.1213)P
he+(-0.1712)Trp;0.851,0.877,0.817,0.798,0.794,0.858,0.885,0.834,(6.57
50)+(-0.0108)Asn+(0.0321)Tyr+(-0.0457)Val+(-0.2222)Met+(0.1791)Ile+(-
0.1118)Trp;0.851,0.870,0.788,0.775,0.755,0.878,0.824,0.808,(4.4898)+(
0.0015)Gly+(0.0335)Thr+(-0.0572)Cit+(-0.0577)Val+(-0.3796)Met+(0.2061
)Ile;0.851,0.874,0.809,0.790,0.795,0.852,0.858,0.824,(5.2890)+(0.0084
)Gln+(-0.1162)His+(-0.0054)Ala+(0.0119)Orn+(0.0709)Ile+(-0.1221)Trp;0
.851,0.874,0.795,0.772,0.785,0.845,0.842,0.811,(7.7870)+(-0.0216)Asn+
(-0.0979)His+(0.0227)Thr+(-0.0056)Ala+(0.0738)Ile+(-0.1252)Trp;0.851,
0.877,0.820,0.803,0.812,0.850,0.858,0.831,(4.6917)+(0.0103)Gln+(-0.10
97)His+(-0.1439)Met+(0.0044)Lys+(0.0727)Ile+(-0.1143)Trp;0.851,0.875,
0.757,0.720,0.758,0.833,0.797,0.777,(3.9599)+(0.0428)Ser+(-0.1086)His
+(0.0008)Pro+(-0.0047)Lys+(0.0779)Ile+(-0.1196)Trp;0.851,0.870,0.795,
0.780,0.759,0.845,0.872,0.814,(7.2563)+(-0.0621)His+(-0.0057)Ala+(-0.
0315)Val+(0.0041)Lys+(0.1498)Ile+(-0.1093)Trp;0.851,0.876,0.758,0.742
,0.724,0.803,0.838,0.777,(0.6936)+(0.0274)Ser+(-0.0029)Pro+(-0.0442)V
al+(0.1442)Ile+(0.0707)Phe+(-0.1660)Trp;0.851,0.878,0.824,0.825,0.800
,0.831,0.864,0.830,(3.0094)+(-0.0979)Asn+(0.0053)Gln+(0.1337)Ile+(-0.
0717)Leu+(0.0707)Phe+(-0.1472)Trp;0.851,0.878,0.778,0.766,0.783,0.798
,0.786,0.783,(5.4138)+(0.0009)Gly+(-0.1233)His+(0.0265)Thr+(-0.0335)T
yr+(0.1213)Phe+(-0.1187)Trp;0.851,0.880,0.827,0.823,0.822,0.837,0.839
,0.830,(3.3666)+(0.0118)Gln+(-0.1392)His+(-0.0201)Arg+(0.0018)Val+(0.
1041)Phe+(-0.1185)Trp;0.851,0.876,0.792,0.776,0.779,0.849,0.819,0.806
,(1.9068)+(0.0444)Ser+(-0.0052)Ala+(-0.2068)Met+(0.0033)Orn+(0.0860)I
le+(-0.1415)Trp;0.850,0.873,0.804,0.788,0.770,0.854,0.881,0.823,(7.73
61)+(-0.0414)His+(-0.0062)Ala+(-0.0480)Cit+(-0.0317)Val+(0.1599)Ile+(
-0.1121)Trp;0.850,0.879,0.769,0.740,0.745,0.869,0.821,0.794,(2.9195)+
(0.0484)Ser+(-0.0788)His+(-0.0086)Arg+(-0.0371)Val+(-0.2499)Met+(0.17

14)Ile;0.850,0.877,0.772,0.748,0.779,0.836,0.778,0.785,(-0.0697)+(0.0637)Ser+(-0.0323)Asn+(-0.0009)Gly+(-0.1417)His+(-0.2560)Met+(0.1605)Phe;0.850,0.883,0.806,0.800,0.817,0.798,0.805,0.805,(0.9631)+(0.0040)Gln+(0.0320)Thr+(-0.3834)Met+(0.0497)Ile+(0.1063)Phe+(-0.1683)Trp;0.850,0.880,0.825,0.822,0.790,0.851,0.886,0.837,(4.5654)+(-0.0476)Asn+(-0.0086)Ala+(0.1569)Ile+(-0.0762)Leu+(0.0802)Phe+(-0.1352)Trp;0.850,0.879,0.813,0.801,0.784,0.855,0.872,0.828,(6.7508)+(-0.0406)Cit+(-0.0431)Val+(-0.1861)Met+(0.0096)Lys+(0.1734)Ile+(-0.1157)Trp;0.850,0.876,0.767,0.742,0.776,0.835,0.770,0.781,(-0.3597)+(0.0602)Ser+(-0.1472)His+(-0.0000)Ala+(-0.2799)Met+(-0.0001)Lys+(0.1624)Phe;0.850,0.883,0.833,0.841,0.847,0.812,0.799,0.825,(1.8994)+(-0.0663)Asn+(0.0060)Gln+(0.0361)Thr+(-0.3192)Met+(0.1275)Phe+(-0.1595)Trp;0.850,0.878,0.802,0.790,0.752,0.855,0.900,0.824,(1.7946)+(-0.0050)Ala+(-0.0633)Val+(-0.3537)Met+(0.0134)Orn+(0.2046)Ile+(0.1127)Phe;0.850,0.874,0.762,0.732,0.780,0.799,0.781,0.773,(0.5142)+(0.0392)Ser+(-0.1143)Cit+(0.0007)Pro+(0.0547)Ile+(0.0743)Phe+(-0.2063)Trp;0.850,0.874,0.810,0.803,0.809,0.857,0.800,0.817,(4.2182)+(0.0364)Ser+(-0.0703)Asn+(0.0087)Gln+(-0.1175)His+(0.0116)Val+(-0.1084)Trp;0.850,0.871,0.818,0.813,0.834,0.874,0.755,0.819,(6.1616)+(0.0395)Ser+(-0.0954)Asn+(-0.0032)Ala+(-0.1138)Cit+(0.0591)Orn+(-0.1351)Trp;0.850,0.880,0.812,0.799,0.810,0.828,0.839,0.819,(3.4320)+(0.0088)Gln+(-0.1381)His+(0.0019)Pro+(0.0094)Orn+(0.0952)Phe+(-0.1206)Trp;0.850,0.879,0.805,0.781,0.793,0.836,0.874,0.821,(6.0874)+(-0.1021)His+(-0.0069)Ala+(0.0039)Pro+(0.0559)Ile+(0.0809)Phe+(-0.1266)Trp;0.850,0.878,0.771,0.742,0.748,0.866,0.824,0.795,(2.5498)+(0.0480)Ser+(-0.1025)His+(-0.0053)Ala+(-0.1954)Met+(0.1464)Ile+(-0.0392)Leu;0.850,0.876,0.800,0.791,0.793,0.843,0.812,0.810,(1.7097)+(0.0452)Ser+(-0.0637)Asn+(0.0036)Gln+(-0.1980)Met+(0.0746)Ile+(-0.1454)Trp;0.850,0.881,0.815,0.820,0.797,0.843,0.820,0.820,(1.6419)+(0.0464)Ser+(-0

.1343)Asn+(-0.0050)Ala+(0.0087)Orn+(0.0974)Phe+(-0.1419)Trp;0.850,0.876,0.797,0.783,0.782,0.851,0.826,0.810,(1.5211)+(0.0425)Ser+(0.0017)Gln+(-0.0051)Ala+(-0.2131)Met+(0.0864)Ile+(-0.1435)Trp;0.850,0.874,0.808,0.796,0.767,0.858,0.889,0.827,(6.9248)+(-0.0077)Ala+(-0.0627)Cit+(-0.0369)Val+(-0.0010)Lys+(0.1719)Ile+(-0.1278)Trp;0.850,0.875,0.810,0.802,0.778,0.851,0.868,0.825,(6.2270)+(-0.0411)Val+(-0.2202)Met+(0.0122)Lys+(0.1894)Ile+(-0.0176)Leu+(-0.1124)Trp;0.850,0.882,0.773,0.747,0.780,0.831,0.783,0.785,(1.9568)+(0.0529)Ser+(-0.0010)Gly+(-0.1138)His+(-0.0566)Cit+(0.1339)Phe+(-0.1335)Trp;0.850,0.877,0.801,0.785,0.801,0.851,0.810,0.812,(3.8707)+(0.0396)Ser+(-0.0791)Asn+(0.0083)Gln+(-0.1211)His+(0.0297)Leu+(-0.1099)Trp;0.850,0.881,0.797,0.777,0.764,0.844,0.886,0.818,(3.5827)+(-0.0688)His+(0.0008)Arg+(-0.0516)Val+(-0.3172)Met+(0.1761)Ile+(0.1272)Phe;0.850,0.875,0.789,0.781,0.750,0.851,0.845,0.807,(2.8899)+(0.0293)Ser+(-0.0103)Ala+(0.0045)Pro+(0.1609)Ile+(-0.0645)Leu+(-0.1448)Trp;0.850,0.875,0.785,0.761,0.795,0.840,0.790,0.796,(3.0176)+(0.0360)Ser+(0.0025)Gln+(-0.0959)Cit+(-0.0156)Lys+(0.0809)Ile+(-0.1757)Trp;0.850,0.875,0.802,0.786,0.779,0.845,0.860,0.817,(6.3016)+(0.0027)Pro+(-0.0458)Val+(-0.2084)Met+(0.0239)Orn+(0.1721)Ile+(-0.1069)Trp;0.850,0.873,0.801,0.787,0.777,0.846,0.855,0.816,(6.1184)+(0.0013)Gly+(-0.0457)Val+(-0.2062)Met+(0.0239)Orn+(0.1752)Ile+(-0.1070)Trp;0.850,0.872,0.796,0.787,0.746,0.883,0.865,0.820,(3.6212)+(0.0018)Gln+(0.0301)Thr+(-0.0055)Ala+
(-0.0584)Val+(-0.3671)Met+(0.2129)Ile;0.850,0.879,0.803,0.778,0.795,0.837,0.866,0.819,(6.1174)+(-0.1072)His+(-0.0061)Ala+(0.0146)Orn+(0.0557)Ile+(0.0767)Phe+(-0.1253)Trp;0.850,0.877,0.769,0.754,0.729,0.873,0.817,0.793,(1.3818)+(0.0327)Ser+(0.0218)Thr+(-0.0595)Val+(-0.4144)Met+(0.2093)Ile+(0.0035)Leu;0.850,0.876,0.762,0.723,0.763,0.830,0.813,0.782,(3.9286)+(0.0478)Ser+(-0.0040)Gly+(-0.1103)His+(0.0022)Tyr+(0.074

5)Ile+(-0.1248)Trp;0.850,0.880,0.786,0.762,0.798,0.810,0.806,0.794,(5
.5158)+(-0.1263)His+(0.0207)Thr+(0.0001)Pro+(0.0121)Orn+(0.0982)Phe+(
-0.1272)Trp;0.850,0.874,0.804,0.795,0.752,0.854,0.899,0.825,(1.8321)+
(-0.0050)Ala+(-0.0540)Val+(-0.3433)Met+(0.2247)Ile+(-0.0278)Leu+(0.12
02)Phe;0.850,0.874,0.762,0.731,0.779,0.798,0.782,0.773,(0.5921)+(0.03
97)Ser+(-0.0004)Gln+(-0.1134)Cit+(0.0555)Ile+(0.0750)Phe+(-0.2054)Trp
;0.850,0.883,0.807,0.789,0.817,0.844,0.810,0.815,(6.1079)+(-0.1038)Hi
s+(0.0297)Thr+(-0.0048)Ala+(-0.0672)Cit+(0.1290)Phe+(-0.1420)Trp;0.85
0,0.878,0.817,0.812,0.806,0.826,0.842,0.822,(3.3097)+(0.0096)Gln+(-0.
1366)His+(-0.0178)Tyr+(0.0030)Val+(0.1061)Phe+(-0.1166)Trp;0.850,0.87
7,0.766,0.739,0.780,0.838,0.757,0.778,(-0.3211)+(0.0614)Ser+(-0.1466)
His+(-0.0132)Arg+(-0.2654)Met+(0.0151)Orn+(0.1580)Phe;0.850,0.875,0.7
70,0.744,0.782,0.840,0.765,0.783,(-0.2172)+(0.0610)Ser+(-0.1396)His+(
-0.0335)Cit+(0.0008)Val+(-0.2806)Met+(0.1639)Phe;0.850,0.878,0.778,0.
767,0.781,0.794,0.789,0.783,(5.4813)+(-0.1216)His+(0.0264)Thr+(0.0025
)Pro+(-0.0364)Tyr+(0.1195)Phe+(-0.1192)Trp;0.850,0.876,0.800,0.787,0.
749,0.854,0.900,0.823,(2.0275)+(-0.0066)Ala+(0.0082)Pro+(-0.0625)Val+
(-0.3621)Met+(0.2006)Ile+(0.1164)Phe;0.850,0.877,0.769,0.743,0.776,0.
836,0.775,0.783,(-0.3105)+(0.0614)Ser+(-0.0011)Gly+(-0.1455)His+(-0.0
006)Val+(-0.2782)Met+(0.1622)Phe;0.850,0.875,0.791,0.779,0.743,0.878,
0.859,0.815,(4.3085)+(0.0306)Thr+(-0.0068)Ala+(0.0070)Pro+(-0.0583)Va
l+(-0.3630)Met+(0.2072)Ile;0.850,0.875,0.787,0.761,0.776,0.848,0.836,
0.805,(6.3778)+(-0.0987)Cit+(-0.0364)Val+(0.0503)Orn+(-0.0094)Lys+(0.
1464)Ile+(-0.1393)Trp;0.850,0.879,0.814,0.809,0.802,0.824,0.845,0.820
,(2.8738)+(0.0030)Gly+(-0.2531)Met+(0.1595)Ile+(-0.0782)Leu+(0.1134)P
he+(-0.1275)Trp;0.850,0.877,0.778,0.759,0.753,0.860,0.819,0.798,(6.41
20)+(-0.0704)His+(0.0411)Thr+(-0.0162)Arg+(-0.0475)Val+(-0.3216)Met+(
0.1891)Ile;0.850,0.878,0.770,0.747,0.776,0.835,0.773,0.783,(-0.1149)+

(0.0624)Ser+(-0.0332)Asn+(-0.1426)His+(-0.2580)Met+(0.0006)Lys+(0.1612)Phe;0.850,0.872,0.787,0.769,0.761,0.879,0.826,0.808,(4.4153)+(0.0298)Thr+(-0.0688)Cit+(-0.0586)Val+(-0.3688)Met+(0.0270)Orn+(0.1998)Ile;0.850,0.875,0.792,0.771,0.790,0.832,0.822,0.804,(1.9264)+(0.0551)Ser+(-0.0067)Gly+(-0.2333)Met+(0.0043)Orn+(0.0761)Ile+(-0.1477)Trp;0.850,0.875,0.764,0.747,0.769,0.794,0.781,0.773,(0.5898)+(0.0399)Ser+(-0.1090)Cit+(-0.0378)Tyr+(0.0560)Ile+(0.0965)Phe+(-0.1921)Trp;0.850,0.878,0.813,0.805,0.804,0.825,0.845,0.820,(3.3598)+(0.0095)Gln+(-0.1390)His+(-0.0173)Tyr+(0.0118)Leu+(0.0994)Phe+(-0.1202)Trp;0.850,0.878,0.775,0.758,0.780,0.798,0.793,0.782,(5.5806)+(-0.1281)His+(0.0275)Thr+(-0.0357)Tyr+(0.0117)Leu+(0.1114)Phe+(-0.1251)Trp;0.850,0.876,0.772,0.746,0.782,0.841,0.767,0.784,(-0.1681)+(0.0608)Ser+(-0.1383)His+(-0.0003)Ala+(-0.0331)Cit+(-0.2776)Met+(0.1649)Phe;0.850,0.872,0.803,0.784,0.786,0.843,0.856,0.818,(7.3380)+(-0.0745)His+(-0.0060)Ala+(0.0228)Orn+(0.1261)Ile+(-0.0410)Leu+(-0.1111)Trp;0.850,0.879,0.774,0.751,0.783,0.842,0.766,0.786,(0.0909)+(0.0635)Ser+(-0.0347)Asn+(-0.1337)His+(-0.0335)Cit+(-0.2541)Met+(0.1641)Phe;0.850,0.875,0.756,0.742,0.739,0.794,0.799,0.768,(0.6559)+(0.0315)Ser+(-0.0025)Gln+(0.1380)Ile+(-0.0724)Leu+(0.0689)Phe+(-0.1646)Trp;0.850,0.881,0.820,0.803,0.820,0.844,0.851,0.829,(3.1785)+(0.0107)Gln+(-0.1293)His+(-0.0615)Cit+(0.0136)Leu+(0.1038)Phe+(-0.1364)Trp;0.850,0.879,0.782,0.771,0.786,0.802,0.791,0.787,(5.6383)+(-0.1212)His+(0.0284)Thr+(-0.0344)Tyr+(-0.0026)Lys+(0.1229)Phe+(-0.1182)Trp;0.850,0.877,0.793,0.778,0.768,0.825,0.862,0.808,(3.9218)+(-0.0869)Cit+(-0.0291)Val+(0.1697)Ile+(-0.0375)Leu+(0.0891)Phe+(-0.1540)Trp;0.850,0.874,0.790,0.779,0.769,0.847,0.820,0.804,(3.4041)+(0.0414)Ser+(-0.1018)Asn+(-0.0021)Thr+(0.1405)Ile+(-0.0582)Leu+(-0.1342)Trp;0.850,0.875,0.758,0.724,0.762,0.833,0.787,0.777,(4.1380)+(0.0463)Ser+(-0.1065)His+(-0.0153)Arg+(-0.0013)Lys+(0.0801)Ile+(-0.1198)Trp;0

.850,0.874,0.754,0.716,0.757,0.831,0.794,0.775,(3.9002)+(0.0404)Ser+(-0.1150)His+(0.0029)Thr+(0.0029)Tyr+(0.0746)Ile+(-0.1252)Trp;0.850,0.877,0.815,0.797,0.791,0.854,0.883,0.831,(6.3750)+(0.0315)Tyr+(-0.0433)Val+(-0.2292)Met+(0.1845)Ile+(-0.0076)Leu+(-0.1126)Trp;0.850,0.881,0.803,0.807,0.795,0.809,0.805,0.804,(0.8832)+(0.0451)Ser+(-0.1548)Asn+(0.0024)Gln+(0.0036)Pro+(0.0876)Phe+(-0.1530)Trp;0.850,0.878,0.801,0.794,0.797,0.805,0.826,0.806,(1.8218)+(0.0566)Ser+(-0.1413)Asn+(-0.0068)Gly+(0.0043)Pro+(0.0850)Phe+(-0.1528)Trp;0.850,0.872,0.809,0.793,0.800,0.847,0.845,0.821,(5.0483)+(-0.0464)Asn+(0.0024)Gly+(0.0099)Gln+(-0.1159)His+(0.0642)Ile+(-0.1189)Trp;0.850,0.880,0.797,0.777,0.765,0.845,0.885,0.818,(3.6045)+(-0.0686)His+(0.0002)Tyr+(-0.0517)Val+(-0.3159)Met+(0.1762)Ile+(0.1272)Phe;0.850,0.880,0.798,0.776,0.766,0.850,0.886,0.820,(3.7214)+(-0.0626)His+(-0.0301)Cit+(-0.0519)Val+(-0.3057)Met+(0.1774)Ile+(0.1294)Phe;0.850,0.875,0.790,0.779,0.772,0.846,0.817,0.803,(3.4481)+(0.0402)Ser+(-0.1079)Asn+(0.0045)Orn+(0.1376)Ile+(-0.0576)Leu+(-0.1349)Trp;0.850,0.874,0.810,0.798,0.771,0.860,0.886,0.829,(6.8927)+(-0.0077)Ala+(-0.0638)Cit+(-0.0293)Val+(0.1878)Ile+(-0.0244)Leu+(-0.1256)Trp;0.850,0.870,0.792,0.772,0.788,0.831,0.829,0.805,(5.0990)+(0.0075)Gln+(-0.1265)His+(0.0115)Thr+(-0.0022)Pro+(0.0664)Ile+(-0.1293)Trp;0.850,0.880,0.824,0.816,0.820,0.838,0.844,0.829,(3.3774)+(0.0117)Gln+(-0.1420)His+(-0.0196)Arg+(0.0102)Leu+(0.0969)Phe+(-0.1221)Trp;0.850,0.874,0.790,0.775,0.786,0.841,0.798,0.800,(2.3839)+(0.0486)Ser+(-0.0469)Asn+(-0.1917)Met+(-0.0011)Lys+(0.0769)Ile+(-0.1418)Trp;0.850,0.881,0.824,0.801,0.820,0.846,0.874,0.835,(6.0142)+(-0.0922)His+(-0.0039)Ala+(-0.1520)Met+(0.0621)Ile+(0.1084)Phe+(-0.1168)Trp;0.850,0.876,0.819,0.813,0.806,0.822,0.857,0.824,(3.3309)+(0.0043)Asn+(-0.2450)Met+(0.1582)Ile+(-0.0778)Leu+(0.1110)Phe+(-0.1284)Trp;0.850,0.878,0.794,0.795,0.791,0.806,0.791,0.795,(1.4981)+(0.0456)Ser+(-0.1511)Asn

+(0.0046)Thr+(0.0034)Pro+(0.0884)Phe+(-0.1531)Trp;0.850,0.877,0.784,0.769,0.730,0.884,0.863,0.811,(1.2949)+(0.0405)Ser+(-0.0060)Ala+(-0.0475)Val+(-0.2975)Met+(0.2168)Ile+(-0.0147)Leu;0.850,0.874,0.789,0.779,0.786,0.856,0.772,0.798,(5.6071)+(0.0445)Ser+(-0.0808)His+(-0.0024)Ala+(0.0162)Pro+(-0.1163)Met+(-0.0943)Trp;0.850,0.878,0.821,0.820,0.804,0.838,0.845,0.827,(1.9949)+(0.0555)Ser+(-0.1290)Asn+(-0.0062)Gly+(-0.0044)Ala+(0.0984)Phe+(-0.1436)Trp;0.850,0.878,0.806,0.778,0.812,0.823,0.855,0.817,(5.1465)+(0.0400)Asn+(-0.1038)His+(-0.2076)Met+(0.0608)Ile+(0.1128)Phe+(-0.1189)Trp;0.850,0.874,0.809,0.786,0.806,0.843,0.849,0.821,(4.7956)+(0.0100)Gln+(-0.1052)His+(-0.0566)Cit+(0.0011)Pro+(0.0713)Ile+(-0.1355)Trp;0.850,0.871,0.788,0.774,0.755,0.877,0.829,0.809,(4.6427)+(0.0342)Thr+(-0.0547)Cit+(0.0022)Pro+(-0.0580)Val+(-0.3831)Met+(0.2037)Ile;0.849,0.870,0.797,0.783,0.762,0.846,0.873,0.816,(7.3977)+(-0.0570)His+(-0.0057)Ala+(-0.0293)Val+(0.1572)Ile+(-0.0075)Leu+(-0.1063)Trp;0.849,0.876,0.770,0.748,0.781,0.837,0.758,0.781,(-0.2356)+(0.0624)Ser+(-0.1442)His+(-0.0000)Ala+(-0.0117)Arg+(-0.2662)Met+(0.1640)Phe;0.849,0.880,0.834,0.833,0.823,0.849,0.851,0.839,(3.5192)+(0.0117)Gln+(-0.1342)His+(-0.0027)Ala+(-0.0191)Arg+(0.1118)Phe+(-0.1148)Trp;0.849,0.876,0.756,0.718,0.759,0.833,0.795,0.776,(3.8655)+(0.0404)Ser+(-0.1152)His+(0.0001)Pro+(0.0102)Orn+(0.0726)Ile+(-0.1231)Trp;0.849,0.871,0.790,0.768,0.788,0.829,0.827,0.803,(5.0663)+(0.0073)Gln+(-0.1272)His+(0.0103)Thr+(0.0056)Orn+(0.0623)Ile+(-0.1294)Trp;0.849,0.876,0.768,0.743,0.775,0.836,0.771,0.781,(-0.3516)+(0.0600)Ser+(-0.1466)His+(-0.0006)Val+(-0.2799)Met+(0.0002)Lys+(0.1632)Phe;0.849,0.875,0.824,0.817,0.825,0.877,0.803,0.830,(4.1517)+(0.0352)Ser+(0.0083)Gln+(-0.1103)His+(0.0464)Tyr+(-0.1565)Met+(-0.1077)Trp;0.849,0.880,0.796,0.796,0.791,0.810,0.794,0.798,(1.3966)+(0.0478)Ser+(-0.1378)Asn+(0.0042)Pro+(-0.0037)Lys+(0.0912)Phe+(-0.1489)Trp;0.849,0.879,0.778,0.764,0.7

82,0.802,0.789,0.784,(5.4727)+(-0.1244)His+(0.0251)Thr+(-0.0361)Tyr+(0.0146)Orn+(0.1155)Phe+(-0.1175)Trp;0.849,0.878,0.816,0.815,0.778,0.842,0.876,0.828,(2.8852)+(0.0024)Gln+(-0.0100)Ala+(0.1607)Ile+(-0.0769)Leu+(0.0701)Phe+(-0.1515)Trp;0.849,0.877,0.802,0.783,0.806,0.857,0.803,0.812,(3.2586)+(0.0400)Ser+(0.0075)Gln+(-0.1205)His+(-0.1436)Met+(0.0366)Leu+(-0.1062)Trp;0.849,0.878,0.754,0.720,0.752,0.853,0.776,0.775,(2.5871)+(0.0438)Ser+(-0.1174)His+(0.0155)Thr+(-0.2688)Met+(0.1281)Ile+(-0.0311)Leu;0.849,0.874,0.784,0.767,0.792,0.846,0.766,0.793,(5.7240)+(0.0420)Ser+(-0.0652)Asn+(-0.0905)His+(0.0090)Pro+(0.0254)Orn+(-0.1001)Trp;0.849,0.881,0.802,0.805,0.798,0.820,0.793,0.804,(1.4783)+(0.0471)Ser+(-0.1363)Asn+(0.0070)Orn+(-0.0040)Lys+(0.0915)Phe+(-0.1462)Trp;0.849,0.878,0.810,0.808,0.774,0.839,0.871,0.823,(3.5647)+(0.0049)Thr+(-0.0101)Ala+(0.1589)Ile+(-0.0759)Leu+(0.0721)Phe+(-0.1505)Trp;0.849,0.880,0.825,0.812,0.824,0.842,0.848,0.831,(3.1459)+(0.0108)Gln+(-0.1276)His+(-0.0622)Cit+(0.0045)Val+(0.1098)Phe+(-0.1338)Trp;0.849,0.876,0.765,0.761,0.704,0.843,0.845,0.788,(0.3421)+(0.0532)Ser+(-0.2264)Asn+(-0.0431)Tyr+(-0.0597)Val+(0.1679)Ile+(0.1150)Phe;0.849,0.875,0.790,0.779,0.754,0.856,0.845,0.809,(3.0622)+(0.0317)Ser+(-0.0089)Ala+(-0.0065)Lys+(0.1641)Ile+(-0.0607)Leu+(-0.1392)Trp;0.849,0.874,0.765,0.735,0.780,0.798,0.787,0.775,(0.4750)+(0.0404)Ser+(-0.0029)Thr+(-0.1122)Cit+(0.0560)Ile+(0.0749)Phe+(-0.2036)Trp;0.849,0.877,0.784,0.769,0.730,0.886,0.865,0.812,(1.1521)+(0.0405)Ser+(-0.0060)Ala+(-0.0524)Val+(-0.3133)Met+(0.0026)Lys+(0.2063)Ile;0.849,0.871,0.810,0.806,0.834,0.867,0.729,0.809,(6.0614)+(0.0384)Ser+(-0.1105)Asn+(0.0062)Thr+(-0.1130)Cit+(0.0524)Orn+(-0.1450)Trp;0.849,0.873,0.802,0.789,0.777,0.845,0.858,0.817,(6.2855)+(-0.0431)Val+(-0.1999)Met+(0.0247)Orn+(0.1802)Ile+(-0.0086)Leu+(-0.1062)Trp;0.849,0.873,0.794,0.781,0.795,0.848,0.788,0.803,(5.5812)+(0.0524)Ser+(-0.0054)Gly+(-0.0791)His+(0.0147)Pro+(-

0.1255)Met+(-0.0988)Trp;0.849,0.870,0.774,0.768,0.755,0.827,0.789,0.785,(0.0034)+(0.0509)Ser+(-0.1315)Asn+(0.0080)Gln+(-0.1551)His+(-0.0423)Tyr+(0.1332)Phe;0.849,0.874
,0.792,0.773,0.790,0.834,0.815,0.803,(2.1749)+(0.0565)Ser+(-0.0064)Gly+(-0.0090)Arg+(-0.2187)Met+(0.0782)Ile+(-0.1458)Trp;0.849,0.874,0.775,0.747,0.788,0.833,0.781,0.787,(3.4864)+(0.0393)Ser+(-0.0924)Cit+(0.0018)Pro+(-0.0143)Lys+(0.0787)Ile+(-0.1732)Trp;0.849,0.876,0.797,0.780,0.774,0.849,0.853,0.814,(7.1336)+(0.0042)Gly+(-0.0515)His+(-0.0348)Val+(-0.1499)Met+(0.1633)Ile+(-0.0935)Trp;0.849,0.877,0.772,0.751,0.781,0.836,0.763,0.783,(-0.0051)+(0.0642)Ser+(-0.0278)Asn+(-0.1406)His+(-0.0107)Arg+(-0.2471)Met+(0.1630)Phe;0.849,0.877,0.815,0.804,0.790,0.869,0.854,0.829,(6.5334)+(0.0130)Thr+(-0.0090)Ala+(-0.0813)Cit+(0.1616)Ile+(-0.0573)Leu+(-0.1454)Trp;0.849,0.870,0.791,0.771,0.785,0.828,0.826,0.803,(5.1099)+(0.0074)Gln+(-0.1247)His+(0.0115)Thr+(-0.0056)Tyr+(0.0646)Ile+(-0.1277)Trp;0.849,0.870,0.814,0.808,0.837,0.868,0.739,0.813,(5.9018)+(0.0409)Ser+(-0.0821)Asn+(-0.1072)Cit+(-0.0645)Met+(0.0556)Orn+(-0.1349)Trp;0.849,0.872,0.799,0.780,0.766,0.846,0.880,0.818,(7.3003)+(-0.0618)His+(-0.0063)Ala+(0.0150)Tyr+(-0.0318)Val+(0.1521)Ile+(-0.1119)Trp;0.849,0.877,0.820,0.815,0.807,0.820,0.860,0.826,(3.4412)+(-0.2397)Met+(-0.0041)Orn+(0.1587)Ile+(-0.0776)Leu+(0.1129)Phe+(-0.1282)Trp;0.849,0.876,0.814,0.811,0.778,0.840,0.877,0.826,(3.6361)+(0.0003)Gly+(-0.0096)Ala+(0.1611)Ile+(-0.0771)Leu+(0.0733)Phe+(-0.1465)Trp;0.849,0.875,0.809,0.799,0.766,0.852,0.892,0.827,(-0.1800)+(0.0047)Gln+(0.0048)Tyr+(-0.0640)Val+(-0.4418)Met+(0.2004)Ile+(0.1220)Phe;0.849,0.879,0.817,0.825,0.843,0.807,0.751,0.806,(3.7434)+(0.0474)Thr+(-0.0216)Arg+(-0.0104)Val+(-0.3379)Met+(0.1535)Phe+(-0.1521)Trp;0.849,0.876,0.782,0.769,0.783,0.832,0.778,0.790,(1.6848)+(0.0389)Ser+(0.0012)Gln+(0.0124)Thr+(-0.2770)Met+(0.0776)Ile+(-0.1525)Trp;0.849,0.871,

0.797,0.779,0.786,0.837,0.840,0.810,(4.9569)+(0.0075)Gln+(-0.1084)His+(0.0090)Orn+(0.1013)Ile+(-0.0285)Leu+(-0.1201)Trp;0.849,0.871,0.793,0.783,0.744,0.879,0.861,0.817,(4.2430)+(0.0316)Thr+(-0.0054)Ala+(-0.0592)Val+(-0.3598)Met+(0.2134)Ile+(0.0014)Leu;0.849,0.879,0.801,0.806,0.808,0.817,0.764,0.799,(1.9594)+(0.0452)Ser+(-0.1370)Asn+(0.0117)Thr+(-0.0214)Arg+(0.0974)Phe+(-0.1541)Trp;0.849,0.875,0.758,0.720,0.765,0.832,0.788,0.776,(4.0136)+(0.0468)Ser+(-0.1101)His+(-0.0169)Arg+(0.0096)Tyr+(0.0784)Ile+(-0.1251)Trp;0.849,0.872,0.791,0.775,0.759,0.880,0.837,0.813,(4.5265)+(0.0341)Thr+(-0.0540)Cit+(0.0088)Tyr+(-0.0589)Val+(-0.3923)Met+(0.2080)Ile;0.849,0.879,0.820,0.818,0.811,0.815,0.846,0.822,(1.2969)+(0.0538)Ser+(-0.1509)Asn+(-0.0070)Gly+(0.0030)Gln+(0.0864)Phe+(-0.1524)Trp;0.849,0.873,0.767,0.767,0.727,0.789,0.833,0.779,(3.0974)+(0.0103)Thr+(-0.0443)Tyr+(-0.0438)Val+(0.1420)Ile+(0.0902)Phe+(-0.1522)Trp;0.849,0.876,0.771,0.749,0.781,0.836,0.760,0.782,(-0.2164)+(0.0623)Ser+(-0.1434)His+(-0.0117)Arg+(-0.0007)Val+(-0.2655)Met+(0.1650)Phe;0.849,0.872,0.782,0.771,0.786,0.847,0.758,0.791,(6.1997)+(0.0405)Ser+(-0.0691)Asn+(-0.0887)His+(0.0110)Thr+(0.0093)Pro+(-0.1033)Trp;0.849,0.876,0.815,0.813,0.777,0.841,0.880,0.828,(3.7104)+(-0.0095)Ala+(-0.0047)Orn+(0.1626)Ile+(-0.0772)Leu+(0.0760)Phe+(-0.1465)Trp;0.849,0.871,0.792,0.779,0.745,0.879,0.861,0.816,(4.1202)+(0.0292)Thr+(-0.0055)Ala+(-0.0593)Val+(-0.3561)Met+(0.0111)Orn+(0.2118)Ile;0.849,0.878,0.814,0.800,0.788,0.854,0.877,0.830,(7.3280)+(-0.0108)Asn+(-0.0437)Cit+(-0.0404)Val+(-0.1373)Met+(0.1705)Ile+(-0.1112)Trp;0.849,0.871,0.790,0.777,0.756,0.877,0.831,0.810,(4.6621)+(0.0345)Thr+(-0.0545)Cit+(-0.0579)Val+(-0.3784)Met+(-0.0003)Lys+(0.2064)Ile;0.849,0.873,0.756,0.717,0.759,0.830,0.797,0.776,(3.8073)+(0.0420)Ser+(-0.1138)His+(0.0003)Pro+(0.0044)Tyr+(0.0747)Ile+(-0.1247)Trp;0.849,0.870,0.790,0.777,0.756,0.877,0.831,0.810,(4.6438)+(0.0344)Thr+(-0.0544)Cit+(-0.0581)

Val+(-0.3795)Met+(0.2062)Ile+(0.0003)Leu;0.849,0.878,0.765,0.738,0.774,0.836,0.768,0.779,(-0.3837)+(0.0586)Ser+(-0.1493)His+(-0.0060)Tyr+(-0.2715)Met+(0.0138)Orn+(0.1582)Phe;0.849,0.875,0.796,0.783,0.748,0.883,0.868,0.821,(4.0717)+(0.0308)Thr+(-0.0056)Ala+(0.0144)Tyr+(-0.0602)Val+(-0.3776)Met+(0.2169)Ile;0.849,0.874,0.757,0.719,0.761,0.832,0.799,0.778,(3.8955)+(0.0433)Ser+(-0.1107)His+(0.0076)Tyr+(-0.0054)Lys+(0.0784)Ile+(-0.1220)Trp;0.849,0.873,0.759,0.718,0.778,0.811,0.790,0.774,(2.7173)+(0.0345)Asn+(-0.1606)His+(0.0434)Thr+(-0.4008)Met+(0.0549)Ile+(0.1239)Phe;0.849,0.873,0.815,0.813,0.811,0.867,0.791,0.820,(4.8953)+(0.0330)Ser+(-0.0814)Asn+(0.0076)Gln+(-0.1017)His+(0.0251)Orn+(-0.0968)Trp;0.849,0.876,0.763,0.728,0.766,0.833,0.801,0.782,(4.1986)+(0.0510)Ser+(-0.0036)Gly+(-0.1051)His+(-0.0151)Arg+(0.0781)Ile+(-0.1218)Trp;0.849,0.882,0.838,0.832,0.827,0.859,0.861,0.845,(3.3973)+(0.0107)Gln+(-0.1187)His+(-0.0036)Ala+(-0.0613)Cit+(0.1236)Phe+(-0.1262)Trp;0.849,0.873,0.822,0.820,0.825,0.853,0.796,0.824,(5.9055)+(0.0096)Gln+(-0.1192)His+(0.0253)Thr+(0.0109)Val+(-0.1530)Met+(-0.1127)Trp;0.849,0.871,0.782,0.756,0.781,0.823,0.822,0.796,(6.7977)+(-0.0968)His+(0.0126)Thr+(0.0154)Orn+(0.0999)Ile+(-0.0287)Leu+(-0.1221)Trp;0.849,0.875,0.770,0.745,0.781,0.840,0.764,0.783,(-0.1999)+(0.0607)Ser+(0.0002)Gly+(-0.1388)His+(-0.0332)Cit+(-0.2797)Met+(0.1651)Phe;0.849,0.873,0.807,0.797,0.776,0.851,0.866,0.822,(6.6192)+(-0.0201)Asn+(0.0029)Gly+(-0.0437)Val+(-0.1757)Met+(0.1763)Ile+(-0.1040)Trp;0.849,0.873,0.749,0.711,0.727,0.847,0.825,0.778,(0.8782)+(0.0587)Ser+(-0.1018)Asn+(-0.1472)His+(-0.0075)Ala+(0.0532)Ile+(0.0909)Phe;0.849,0.871,0.816,0.803,0.799,0.855,0.858,0.829,(5.2570)+(0.0109)Gln+(-0.1154)His+(-0.0046)Ala+(-0.0162)Arg+(0.0757)Ile+(-0.1204)Trp;0.849,0.880,0.811,0.807,0.800,0.821,0.839,0.817,(3.3153)+(0.0092)Gln+(-0.1330)His+(0.0038)Pro+(-0.0203)Tyr+(0.1082)Phe+(-0.1152)Trp;0.849,0.875,0.777,0.746,0.781,0.818,0.

823,0.792,(4.9897)+(0.0046)Gly+(-0.1199)His+(0.0103)Orn+(0.0483)Ile+(0.0764)Phe+(-0.1276)Trp;0.849,0.874,0.806,0.798,0.761,0.848,0.891,0.824,(-0.2500)+(0.0044)Gln+(-0.0652)Val+(-0.4455)Met+(0.0046)Lys+(0.2006)Ile+(0.1231)Phe;0.849,0.872,0.791,0.782,0.746,0.880,0.842,0.813,(4.8864)+(0.0385)Thr+(-0.0051)Ala+(-0.0193)Arg+(-0.0605)Val+(-0.3476)Met+(0.2184)Ile;0.849,0.868,0.810,0.805,0.832,0.866,0.737,0.810,(5.9929)+(0.0400)Ser+(-0.0988)Asn+(-0.1121)Cit+(0.0563)Orn+(-0.0022)Lys+(-0.1401)Trp;0.849,0.875,0.789,0.765,0.795,0.837,0.805,0.800,(1.1181)+(0.0491)Ser+(0.0323)Tyr+(-0.2881)Met+(-0.0043)Orn+(0.0806)Ile+(-0.1558)Trp;0.849,0.877,0.808,0.790,0.785,0.853,0.871,0.825,(7.8326)+(-0.0387)His+(-0.0337)Cit+(-0.0350)Val+(-0.1187)Met+(0.1619)Ile+(-0.0999)Trp;0.849,0.877,0.803,0.783,0.782,0.844,0.868,0.819,(7.5991)+(-0.0456)His+(0.0044)Pro+(-0.0363)Val+(-0.1483)Met+(0.1587)Ile+(-0.0950)Trp;0.849,0.876,0.771,0.746,0.781,0.841,0.765,0.783,(-0.1603)+(0.0611)Ser+(-0.1382)His+(-0.0331)Cit+(-0.2772)Met+(-0.0009)Lys+(0.1653)Phe;0.849,0.880,0.804,0.792,0.809,0.835,0.804,0.810,(6.4148)+(-0.1174)His+(0.0317)Thr+(-0.0040)Ala+(-0.0218)Arg+(0.1169)Phe+(-0.1279)Trp;0.849,0.879,0.810,0.817,0.800,0.817,0.805,0.810,(0.9205)+(0.0443)Ser+(-0.1534)Asn+(0.0026)Gln+(0.0034)Orn+(0.0889)Phe+(-0.1513)Trp;0.849,0.876,0.772,0.748,0.784,0.840,0.760,0.783,(-0.1469)+(0.0622)Ser+(-0.1380)His+(-0.0280)Cit+(-0.0073)Arg+(-0.2717)Met+(0.1657)Phe;0.849,0.874,0.790,0.780,0.770,0.847,0.819,0.804,(3.4770)+(0.0404)Ser+(-0.1042)Asn+(-0.0010)Pro+(0.1407)Ile+(-0.0578)Leu+(-0.1350)Trp;0.849,0.874,0.762,0.753,0.737,0.796,0.813,0.775,(0.0702)+(0.0306)Ser+(-0.0203)Orn+(0.1458)Ile+(-0.0739)Leu+(0.0765)Phe+(-0.1715)Trp;0.849,0.873,0.792,0.782,0.755,0.855,0.848,0.810,(2.7582)+(0.0337)Ser+(-0.0078)Thr+(-0.0087)Ala+(0.1704)Ile+(-0.0669)Leu+(-0.1388)Trp;0.849,0.874,0.822,0.820,0.841,0.871,0.756,0.822,(4.9464)+(0.0368)Ser+(-0.1235)Asn+(0.0047)Gln+(-0.1145)Cit+(0.05

18)Orn+(-0.1457)Trp;0.849,0.876,0.785,0.762,0.792,0.833,0.799,0.796,(1.1255)+(0.0489)Ser+(0.0035)Pro+(0.0285)Tyr+(-0.2943)Met+(0.0747)Ile+(-0.1548)Trp;0.849,0.873,0.790,0.775,0.787,0.839,0.797,0.799,(2.3449)+(0.0481)Ser+(-0.0501)Asn+(-0.1938)Met+(0.0047)Orn+(0.0746)Ile+(-0.1427)Trp;0.848,0.881,0.797,0.775,0.814,0.830,0.796,0.804,(6.1034)+(-0.1061)His+(0.0296)Thr+(-0.0663)Cit+(-0.0063)Lys+(0.1237)Phe+(-0.1405)Trp;0.848,0.879,0.805,0.809,0.807,0.820,0.776,0.803,(1.6039)+(0.0484)Ser+(-0.1264)Asn+(-0.0184)Arg+(0.0094)Orn+(0.0939)Phe+(-0.1481)Trp;0.848,0.878,0.813,0.810,0.802,0.829,0.832,0.818,(3.1636)+(0.0018)Gly+(0.0091)Gln+(-0.1352)His+(-0.0152)Tyr+(0.1114)Phe+(-0.1148)Trp;0.848,0.871,0.813,0.797,0.804,0.846,0.853,0.825,(5.1948)+(-0.0430)Asn+(0.0102)Gln+(-0.1152)His+(0.0007)Lys+(0.0626)Ile+(-0.1204)Trp;0.848,0.873,0.790,0.781,0.754,0.851,0.843,0.807,(2.9478)+(0.0292)Ser+(-0.0001)Gln+(-0.0093)Ala+(0.1657)Ile+(-0.0650)Leu+(-0.1443)Trp;0.848,0.875,0.783,0.764,0.794,0.843,0.766,0.792,(5.0096)+(0.0474)Ser+(-0.0956)His+(0.0115)Pro+(0.0107)Val+(-0.1338)Met+(-0.1055)Trp;0.848,0.879,0.823,0.817,0.822,0.837,0.834,0.827,(3.5048)+(0.0111)Gln+(-0.1380)His+(-0.0216)Arg+(0.0140)Orn+(0.1005)Phe+(-0.1167)Trp;0.848,0.876,0.812,0.811,0.796,0.846,0.826,0.820,(4.1710)+(0.0047)Gln+(0.0171)Thr+(-0.2403)Met+(0.1474)Ile+(-0.0578)Leu+(-0.1394)Trp;0.848,0.875,0.768,0.744,0.775,0.834,0.770,0.781,(-0.3350)+(0.0600)Ser+(-0.1469)His+(0.0001)Ala+(-0.0030)Tyr+(-0.2763)Met+(0.1630)Phe;0.848,0.871,0.799,0.789,0.755,0.840,0.886,0.818,(2.2789)+(-0.0320)Asn+(-0.0575)Val+(-0.3471)Met+(0.2161)Ile+(-0.0230)Leu+(0.1221)Phe;0.848,0.875,0.790,0.779,0.770,0.847,0.819,0.803,(3.4664)+(0.0405)Ser+(-0.1053)Asn+(-0.0000)Lys+(0.1390)Ile+(-0.0575)Leu+(-0.1351)Trp;0.848,0.872,0.792,0.770,0.786,0.836,0.833,0.806,(7.3978)+(-0.0314)Asn+(-0.0864)His+(0.0180)Thr+(0.1027)Ile+(-0.0292)Leu+(-0.1206)Trp;0.848,0.878,0.799,0.801,0.802,0.813,0.778,0.798,(1.5215)+(0

.0493)Ser+(-0.1265)Asn+(-0.0180)Arg+(0.0047)Pro+(0.0945)Phe+(-0.1513)Trp;0.848,0.873,0.780,0.751,0.780,0.820,0.829,0.795,(5.0141)+(0.0049)Gly+(-0.1178)His+(-0.0018)Pro+(0.0525)Ile+(0.0814)Phe+(-0.1276)Trp;0.848,0.879,0.784,0.767,0.802,0.816,0.771,0.789,(5.8144)+(0.0027)Gly+(-0.1246)His+(0.0283)Thr+(-0.0224)Arg+(0.1121)Phe+(-0.1271)Trp;0.848,0.875,0.771,0.747,0.782,0.835,0.763,0.782,(-0.2094)+(0.0634)Ser+(-0.0008)Gly+(-0.1435)His+(-0.0116)Arg+(-0.2657)Met+(0.1631)Phe;0.848,0.883,0.820,0.797,0.804,0.863,0.888,0.838,(6.8236)+(-0.0438)Cit+(0.0324)Tyr+(-0.0423)Val+(-0.1953)Met+(0.1744)Ile+(-0.1198)Trp;0.848,0.876,0.792,0.774,0.767,0.819,0.871,0.808,(4.0689)+(-0.0819)Cit+(0.0005)Pro+(-0.0402)Val+(0.1428)Ile+(0.0824)Phe+(-0.1592)Trp;0.848,0.871,0.791,0.770,0.784,0.843,0.827,0.806,(7.9

583)+(-0.0998)His+(0.0254)Thr+(-0.0056)Ala+(-0.0144)Arg+(0.0760)Ile+(-0.1274)Trp;0.848,0.880,0.827,0.825,0.811,0.840,0.854,0.833,(3.4796)+(0.0096)Gln+(-0.1316)His+(-0.0027)Ala+(-0.0108)Tyr+(0.1119)Phe+(-0.1142)Trp;0.848,0.877,0.790,0.773,0.781,0.808,0.839,0.800,(1.3006)+(0.0568)Ser+(-0.1398)Asn+(-0.0063)Gly+(0.0413)Ile+(0.0667)Phe+(-0.1624)Trp;0.848,0.882,0.814,0.805,0.813,0.846,0.817,0.820,(2.8146)+(0.0048)Gly+(0.0097)Gln+(-0.1261)His+(-0.0674)Cit+(0.1220)Phe+(-0.1293)Trp;0.848,0.876,0.778,0.759,0.735,0.881,0.841,0.804,(2.2836)+(0.0482)Ser+(-0.0862)Asn+(0.0059)Pro+(-0.0554)Val+(-0.2728)Met+(0.1925)Ile;0.848,0.874,0.769,0.746,0.780,0.836,0.758,0.780,(-0.3068)+(0.0620)Ser+(-0.1450)His+(-0.0127)Arg+(-0.2716)Met+(0.0023)Lys+(0.1634)Phe;0.848,0.873,0.800,0.795,0.812,0.874,0.735,0.804,(7.2757)+(0.0388)Ser+(-0.0694)Asn+(-0.0764)His+(0.0207)Thr+(-0.0478)Cit+(-0.1072)Trp;0.848,0.877,0.807,0.783,0.794,0.838,0.873,0.822,(6.0899)+(0.0026)Asn+(-0.1038)His+(-0.0061)Ala+(0.0589)Ile+(0.0821)Phe+(-0.1263)Trp;0.848,0.876,0.817,0.804,0.791,0.862,0.874,0.833,(6.9801)+(-0.0101)Ala+(-0.0787)Cit+(0.0089)Pro+(

0.1581)Ile+(-0.0583)Leu+(-0.1362)Trp;0.848,0.875,0.783,0.757,0.773,0.845,0.827,0.801,(5.6212)+(0.0065)Thr+(-0.0971)Cit+(-0.0371)Val+(0.0396)Orn+(0.1414)Ile+(-0.1536)Trp;0.848,0.871,0.791,0.767,0.780,0.841,0.840,0.807,(7.4758)+(-0.1019)His+(0.0203)Thr+(-0.0059)Ala+(0.0007)Tyr+(0.0752)Ile+(-0.1270)Trp;0.848,0.879,0.813,0.798,0.787,0.856,0.876,0.829,(6.9598)+(-0.0480)Cit+(0.0055)Arg+(-0.0398)Val+(-0.1558)Met+(0.1700)Ile+(-0.1135)Trp;0.848,0.875,0.757,0.721,0.752,0.856,0.789,0.779,(2.6333)+(0.0453)Ser+(-0.1284)His+(0.0189)Thr+(-0.0046)Ala+(-0.2593)Met+(0.0935)Ile;0.848,0.873,0.790,0.781,0.754,0.851,0.843,0.807,(2.9349)+(0.0291)Ser+(-0.0093)Ala+(-0.0004)Orn+(0.1658)Ile+(-0.0650)Leu+(-0.1444)Trp;0.848,0.881,0.791,0.782,0.788,0.815,0.805,0.797,(5.7031)+(-0.1193)His+(0.0278)Thr+(-0.0028)Ala+(-0.0291)Tyr+(0.1231)Phe+(-0.1192)Trp;0.848,0.878,0.777,0.756,0.746,0.878,0.823,0.801,(1.6438)+(0.0431)Ser+(-0.0491)Cit+(0.0057)Pro+(-0.0509)Val+(-0.3382)Met+(0.1873)Ile;0.848,0.874,0.775,0.747,0.788,0.834,0.777,0.787,(3.6270)+(0.0374)Ser+(0.0044)Thr+(-0.0934)Cit+(-0.0154)Lys+(0.0806)Ile+(-0.1744)Trp;0.848,0.873,0.808,0.796,0.767,0.857,0.888,0.827,(6.8567)+(-0.0077)Ala+(-0.0627)Cit+(-0.0000)Arg+(-0.0371)Val+(0.1716)Ile+(-0.1287)Trp;0.848,0.877,0.820,0.827,0.840,0.795,0.776,0.810,(3.3102)+(-0.0013)Gly+(0.0411)Thr+(-0.0101)Val+(-0.3447)Met+(0.1468)Phe+(-0.1517)Trp;0.848,0.878,0.811,0.807,0.805,0.817,0.831,0.815,(1.9414)+(0.0568)Ser+(-0.1298)Asn+(-0.0069)Gly+(-0.0039)Lys+(0.0916)Phe+(-0.1473)Trp;0.848,0.874,0.779,0.750,0.780,0.819,0.830,0.794,(4.9934)+(0.0049)Gly+(-0.1169)His+(-0.0008)Lys+(0.0510)Ile+(0.0810)Phe+(-0.1277)Trp;0.848,0.879,0.814,0.818,0.795,0.840,0.824,0.819,(1.5713)+(0.0470)Ser+(-0.1309)Asn+(-0.0051)Ala+(0.0041)Leu+(0.0982)Phe+(-0.1449)Trp;0.848,0.878,0.769,0.753,0.729,0.875,0.818,0.794,(1.3724)+(0.0324)Ser+(0.0204)Thr+(-0.0588)Val+(-0.4098)Met+(0.0049)Orn+(0.2106)Ile;0.848,0.877,0.805,0.821,0.788,0.810,0.797

,0.804,(0.9073)+(0.0452)Ser+(-0.1439)Asn+(0.0028)Gln+(-0.0324)Tyr+(0.1079)Phe+(-0.1421)Trp;0.848,0.877,0.806,0.792,0.756,0.861,0.906,0.829,(1.8614)+(-0.0050)Ala+(0.0064)Tyr+(-0.0630)Val+(-0.3619)Met+(0.2074)Ile+(0.1166)Phe;0.848,0.875,0.776,0.739,0.785,0.831,0.815,0.792,(3.4505)+(-0.1479)His+(0.0433)Thr+(-0.0038)Ala+(-0.3503)Met+(0.0568)Ile+(0.1194)Phe;0.848,0.881,0.828,0.818,0.825,0.844,0.846,0.833,(3.2727)+(0.0107)Gln+(-0.1225)His+(-0.0607)Cit+(-0.0020)Lys+(0.1173)Phe+(-0.1273)Trp;0.848,0.877,0.773,0.746,0.738,0.882,0.841,0.802,(0.4332)+(0.0456)Ser+(0.0040)Pro+(0.0358)Tyr+(-0.0598)Val+(-0.4193)Met+(0.2064)Ile;0.848,0.875,0.775,0.747,0.789,0.840,0.773,0.787,(4.4302)+(0.0508)Ser+(-0.1005)His+(0.0104)Pro+(-0.1610)Met+(0.0323)Leu+(-0.1065)Trp;0.848,0.873,0.775,0.759,0.744,0.807,0.858,0.792,(3.4061)+(0.0109)Thr+(-0.0438)Val+(-0.0127)Lys+(0.1470)Ile+(0.0744)Phe+(-0.1553)Trp;0.848,0.867,0.777,0.757,0.767,0.827,0.813,0.791,(2.5741)+(0.0073)Gly+(-0.1095)His+(-0.2676)Met+(0.1391)Ile+(-0.0646)Leu+(0.1304)Phe;0.848,0.876,0.815,0.806,0.803,0.833,0.854,0.824,(4.7158)+(-0.0454)Asn+(-0.0895)Cit+(0.1450)Ile+(-0.0718)Leu+(0.0953)Phe+(-0.1515)Trp;0.848,0.880,0.786,0.762,0.806,0.812,0.791,0.793,(6.1879)+(-0.1259)His+(0.0298)Thr+(-0.0208)Arg+(0.0088)Leu+(0.1010)Phe+(-0.1341)Trp;0.848,0.871,0.782,0.768,0.722,0.889,0.868,0.812,(3.2155)+(0.0455)Ser+(-0.1467)Asn+(-0.0084)Ala+(-0.0593)Cit+(-0.0505)Val+(0.1894)Ile;0.848,0.875,0.793,0.779,0.781,0.849,0.813,0.805,(2.1221)+(0.0464)Ser+(-0.0050)Ala+(-0.0093)Arg+(-0.1925)Met+(0.0876)Ile+(-0.1400)Trp;0.848,0.874,0.786,0.768,0.752,0.884,0.834,0.809,(1.2625)+(0.0401)Ser+(0.0016)Gln+(-0.0522)Cit+(-0.0504)Val+(-0.3314)Met+(0.1930)Ile;0.848,0.873,0.799,0.786,0.813,0.859,0.760,0.804,(5.0124)+(0.0308)Ser+(-0.0090)Ala+(-0.1250)Cit+(0.0149)Pro+(0.0523)Orn+(-0.1598)Trp;0.848,0.876,0.788,0.763,0.794,0.840,0.801,0.800,(1.1944)+(0.0493)Ser+(0.0312)Tyr+(-0.2786)Met+(-0.0035)Lys+(0.0805)Ile+(-0

.1526)Trp;0.848,0.877,0.769,0.743,0.776,0.835,0.775,0.782,(-0.3153)+(0.0617)Ser+(-0.0011)Gly+(-0.1461)His+(-0.2780)Met+(-0.0004)Lys+(0.1614)Phe;0.848,0.869,0.787,0.766,0.768,0.835,0.846,0.804,(5.3031)+(0.0057)Gln+(-0.0967)His+(-0.0246)Val+(0.0155)Orn+(0.1190)Ile+(-0.1145)Trp;0.848,0.879,0.791,0.773,0.808,0.817,0.787,0.796,(6.2290)+(-0.1204)His+(0.0304)Thr+(-0.0224)Arg+(-0.0020)Val+(0.1129)Phe+(-0.1279)Trp;0.848,0.874,0.786,0.774,0.737,0.885,0.848,0.811,(1.8336)+(0.0446)Ser+(-0.0971)Asn+(0.0024)Gln+(-0.0551)Val+(-0.2605)Met+(0.1985)Ile;0.848,0.874,0.783,0.755,0.783,0.822,0.828,0.797,(5.1650)+(-0.0180)Asn+(0.0054)Gly+(-0.1135)His+(0.0498)Ile+(0.0820)Phe+(-0.1256)Trp;0.848,0.875,0.792,0.771,0.796,0.836,0.806,0.802,(0.7110)+(0.0465)Ser+(0.0017)Gln+(0.0306)Tyr+(-0.2950)Met+(0.0781)Ile+(-0.1572)Trp;0.848,0.879,0.781,0.759,0.801,0.828,0.765,0.788,(5.1705)+(0.0051)Gly+(-0.1141)His+(0.0249)Thr+(-0.0721)Cit+(0.1245)Phe+(-0.1403)Trp;0.848,0.878,0.813,0.811,0.775,0.838,0.879,0.826,(3.6912)+(-0.0103)Ala+(0.0031)Pro+(0.1576)Ile+(-0.0763)Leu+(0.0728)Phe+(-0.1469)Trp;0.848,0.880,0.811,0.801,0.815,0.817,0.824,0.814,(2.6274)+(0.0352)Thr+(-0.0062)Ala+(-0.3277)Met+(0.0580)Ile+(0.1082)Phe+(-0.1631)Trp;0.848,0.877,0.768,0.752,0.729,0.874,0.813,0.792,(1.5230)+(0.0332)Ser+(0.0225)Thr+(-0.0578)Val+(-0.4044)Met+(-0.0034)Lys+(0.2118)Ile;0.848,0.872,0.754,0.721,0.773,0.813,0.762,0.767,(2.4757)+(0.0059)Gly+(-0.1610)His+(0.0408)Thr+(-0.3781)Met+(0.0543)Ile+(0.1295)Phe;0.848,0.871,0.818,0.822,0.814,0.854,0.789,0.820,(6.1337)+(0.0090)Gln+(-0.1029)His+(0.0243)Thr+(0.0090)Pro+(-0.1701)Met+(-0.1042)Trp;0.848,0.871,0.772,0.747,0.755,0.828,0.832,0.790,(6.5865)+(-0.0865)His+(0.0127)Thr+(-0.0288)Val+(0.0185)Orn+(0.1288)Ile+(-0.1162)Trp;0.848,0.875,0.768,0.744,0.774,0.836,0.771,0.781,(-0.3186)+(0.0599)Ser+(-0.1463)His+(-0.0026)Tyr+(-0.0005)Val+(-0.2758)Met+(0.1636)Phe;0.848,0.873,0.789,0.802,0.782,0.798,0.765,0.786,(1.8009)+(0.0439)Ser+(-

0.1492)Asn+(0.0123)Thr+(-0.0397)Tyr+(0.1114)Phe+(-0.1440)Trp;0.848,0.872,0.790,0.780,0.748,0.839,0.871,0.809,(1.1414)+(0.0036)Gly+(0.0025)Pro+(-0.0641)Val+(-0.4095)Met+(0.1987)Ile+(0.1219)Phe;0.848,0.882,0.798,0.787,0.817,0.792,0.794,0.797,(2.5692)+(0.0360)Thr+(-0.3525)Met+(-0.0062)Lys+(0.0527)Ile+(0.1082)Phe+(-0.1622)Trp;0.848,0.878,0.762,0.729,0.762,0.854,0.783,0.782,(1.4033)+(0.0389)Ser+(0.0057)Gln+(-0.1450)His+(0.0169)Thr+(-0.2892)Met+(0.0838)Ile;0.848,0.870,0.789,0.781,0.745,0.838,0.863,0.807,(1.0354)+(0.0038)Gly+(-0.0562)Val+(-0.3950)Met+(0.2204)Ile+(-0.0270)Leu+(0.1247)Phe;0.848,0.877,0.781,0.752,0.741,0.883,0.870,0.811,(0.5611)+(0.0530)Ser+(-0.0057)Gly+(0.0337)Tyr+(-0.0590)Val+(-0.3989)Met+(0.2104)Ile;0.848,0.878,0.798,0.801,0.794,0.812,0.788,0.799,(1.5955)+(0.0446)Ser+(-0.1506)Asn+(0.0058)Thr+(0.0026)Orn+(0.0899)Phe+(-0.1520)Trp;0.848,0.877,0.770,0.749,0.773,0.834,0.772,0.782,(0.0100)+(0.0623)Ser+(-0.0354)Asn+(-0.1411)His+(-0.0069)Tyr+(-0.2444)Met+(0.1627)Phe;0.848,0.871,0.814,0.797,0.804,0.846,0.853,0.825,(5.2046)+(-0.0420)Asn+(0.0103)Gln+(-0.1150)His+(-0.0001)Pro+(0.0631)Ile+(-0.1201)Trp;0.848,0.868,0.809,0.803,0.832,0.861,0.737,0.808,(5.8318)+(0.0403)Ser+(-0.1021)Asn+(-0.1123)Cit+(0.0010)Val+(0.0542)Orn+(-0.1440)Trp;0.848,0.880,0.802,0.791,0.823,0.793,0.796,0.801,(2.8105)+(-0.0275)Asn+(0.0358)Thr+(-0.3406)Met+(0.0481)Ile+(0.1064)Phe+(-0.1637)Trp;0.848,0.876,0.794,0.781,0.804,0.858,0.759,0.801,(5.7595)+(0.0462)Ser+(-0.0716)His+(-0.0391)Cit+(0.0152)Pro+(-0.1194)Met+(-0.1018)Trp;0.848,0.874,0.802,0.792,0.786,0.825,0.844,0.812,(2.2961)+(0.0044)Gln+(-0.1053)Cit+(0.1523)Ile+(-0.0740)Leu+(0.0849)Phe+(-0.1732)Trp;0.848,0.876,0.756,0.717,0.760,0.833,0.797,0.777,(3.8488)+(0.0405)Ser+(-0.1156)His+(0.0015)Tyr+(0.0099)Orn+(0.0727)Ile+(-0.1237)Trp;0.848,0.877,0.807,0.797,0.816,0.825,0.801,0.810,(4.9899)+(0.0063)Gly+(-0.1009)His+(0.0075)Pro+(-0.1723)Met+(0.1366)Phe+(-0.1041)Trp;0.848,0.875,0.801,0.814,

0.793,0.815,0.773,0.799,(1.5782)+(0.0499)Ser+(-0.1184)Asn+(-0.0152)Arg+(-0.0297)Tyr+(0.1138)Phe+(-0.1397)Trp;0.848,0.867,0.790,0.772,0.767,0.837,0.850,0.807,(5.1858)+(0.0006)Gly+(0.0065)Gln+(-0.0956)His+(-0.0232)Val+(0.1203)Ile+(-0.1153)Trp;0.848,0.879,0.796,0.798,0.790,0.808,0.796,0.798,(1.4057)+(0.0472)Ser+(-0.1447)Asn+(0.0045)Pro+(-0.0036)Leu+(0.0920)Phe+(-0.1492)Trp;0.848,0.877,0.813,0.788,0.819,0.823,0.859,0.822,(5.5525)+(-0.1015)His+(-0.1965)Met+(0.0097)Lys+(0.0523)Ile+(0.1094)Phe+(-0.1232)Trp;0.848,0.877,0.790,0.776,0.756,0.850,0.855,0.809,(1.1470)+(0.0065)Gly+(-0.0597)Cit+(-0.0620)Val+(-0.3870)Met+(0.1997)Ile+(0.1320)Phe;0.848,0.873,0.766,0.741,0.782,0.797,0.778,0.775,(0.6383)+(0.0425)Ser+(-0.1037)Cit+(-0.0161)Arg+(0.0575)Ile+(0.0793)Phe+(-0.2020)Trp;0.848,0.871,0.774,0.755,0.756,0.831,0.820,0.790,(7.5963)+(-0.0753)His+(0.0248)Thr+(-0.0258)Arg+(-0.0331)Val+(0.1468)Ile+(-0.1173)Trp;0.848,0.868,0.800,0.784,0.786,0.835,0.844,0.812,(4.9096)+(0.0079)Gln+(-0.1068)His+(0.0001)Lys+(0.1038)Ile+(-0.0286)Leu+(-0.1204)Trp;0.848,0.868,0.798,0.783,0.784,0.835,0.840,0.810,(4.8495)+(0.0009)Gly+(0.0077)Gln+(-0.1075)His+(0.1036)Ile+(-0.0280)Leu+(-0.1201)Trp;0.848,0.872,0.790,0.779,0.747,0.839,0.870,0.809,(1.1110)+(0.0032)Gly+(-0.0645)Val+(-0.4024)Met+(0.0081)Orn+(0.2002)Ile+(0.1191)Phe;0.848,0.869,0.799,0.791,0.753,0.880,0.856,0.820,(4.1593)+(-0.0861)Asn+(0.0041)Gln+(0.0321)Thr+(-0.0617)Val+(-0.3
350)Met+(0.2079)Ile;0.848,0.879,0.812,0.798,0.788,0.854,0.871,0.828,(7.1102)+(-0.0449)Cit+(-0.0358)Val+(-0.1419)Met+(0.1802)Ile+(-0.0143)Leu+(-0.1116)Trp;0.848,0.877,0.817,0.814,0.805,0.827,0.841,0.822,(3.3122)+(0.0093)Gln+(-0.1343)His+(-0.0175)Tyr+(0.0013)Lys+(0.1098)Phe+(-0.1148)Trp;0.848,0.875,0.789,0.781,0.768,0.846,0.816,0.803,(3.5411)+(0.0402)Ser+(-0.1028)Asn+(-0.0043)Tyr+(0.1393)Ile+(-0.0573)Leu+(-0.1335)Trp;0.848,0.874,0.788,0.781,0.770,0.853,0.795,0.800,(3.6365)+(0.0442

)Ser+(-0.0775)Asn+(-0.0232)Arg+(0.1558)Ile+(-0.0657)Leu+(-0.1313)Trp;0.848,0.868,0.810,0.805,0.832,0.865,0.737,0.810,(5.9060)+(0.0401)Ser+(-0.1027)Asn+(-0.1119)Cit+(0.0002)Arg+(0.0550)Orn+(-0.1421)Trp;0.848,0.874,0.788,0.777,0.786,0.837,0.788,0.797,(2.4795)+(0.0496)Ser+(-0.0433)Asn+(-0.0078)Arg+(-0.1867)Met+(0.0768)Ile+(-0.1413)Trp;0.848,0.876,0.810,0.794,0.772,0.859,0.897,0.831,(6.6446)+(-0.0084)Ala+(-0.0652)Cit+(0.0138)Tyr+(-0.0375)Val+(0.1722)Ile+(-0.1346)Trp;0.847,0.871,0.740,0.699,0.720,0.845,0.818,0.770,(0.7520)+(0.0512)Ser+(-0.1526)His+(-0.0074)Ala+(-0.0168)Lys+(0.0620)Ile+(0.0840)Phe;0.847,0.874,0.809,0.800,0.815,0.829,0.806,0.812,(4.7075)+(0.0067)Gly+(-0.1155)His+(-0.2025)Met+(0.0162)Lys+(0.1424)Phe+(-0.1111)Trp;0.847,0.875,0.777,0.745,0.762,0.869,0.827,0.801,(1.1848)+(0.0437)Ser+(0.0061)Gln+(-0.1356)His+(-0.0043)Ala+(-0.2150)Met+(0.0886)Ile;0.847,0.879,0.825,0.821,0.821,0.835,0.838,0.829,(3.3090)+(0.0116)Gln+(-0.1401)His+(-0.0227)Arg+(0.0045)Lys+(0.1045)Phe+(-0.1194)Trp;0.847,0.872,0.804,0.792,0.828,0.854,0.747,0.805,(5.2861)+(0.0422)Ser+(-0.1045)Asn+(-0.1137)Cit+(0.0499)Orn+(0.0135)Leu+(-0.1553)Trp;0.847,0.874,0.802,0.783,0.780,0.844,0.867,0.819,(7.4785)+(0.0100)Asn+(-0.0481)His+(-0.0354)Val+(-0.1451)Met+(0.1623)Ile+(-0.0952)Trp;0.847,0.870,0.819,0.818,0.766,0.872,0.896,0.838,(5.7270)+(-0.0813)Asn+(0.0050)Gln+(-0.0066)Ala+(-0.0411)Val+(0.1640)Ile+(-0.1160)Trp;0.847,0.872,0.812,0.793,0.806,0.844,0.850,0.823,(5.2570)+(-0.0435)Asn+(0.0098)Gln+(-0.1163)His+(0.0103)Orn+(0.0599)Ile+(-0.1200)Trp;0.847,0.870,0.806,0.790,0.784,0.847,0.866,0.822,(7.5109)+(-0.0661)His+(-0.0069)Ala+(0.0048)Pro+(0.1283)Ile+(-0.0410)Leu+(-0.1117)Trp;0.847,0.874,0.778,0.778,0.737,0.792,0.853,0.790,(3.4071)+(-0.0005)Pro+(-0.0355)Tyr+(-0.0434)Val+(0.1439)Ile+(0.0889)Phe+(-0.1469)Trp;0.847,0.872,0.798,0.787,0.757,0.838,0.887,0.817,(2.4926)+(-0.0385)Asn+(0.0032)Pro+(-0.0646)Val+(-0.3560)Met+(0.1973)Ile+(0.1199)Phe;0.847,0.8

76,0.777,0.759,0.736,0.882,0.837,0.803,(2.4143)+(0.0455)Ser+(-0.1032)Asn+(-0.0584)Val+(-0.2549)Met+(0.0257)Orn+(0.1996)Ile;0.847,0.872,0.816,0.802,0.808,0.847,0.847,0.826,(5.2064)+(-0.0282)Asn+(0.0117)Gln+(-0.1173)His+(-0.0160)Arg+(0.0658)Ile+(-0.1199)Trp;0.847,0.876,0.783,0.768,0.733,0.884,0.854,0.810,(1.4237)+(0.0434)Ser+(-0.0057)Ala+(-0.0110)Arg+(-0.0513)Val+(-0.2850)Met+(0.2042)Ile;0.847,0.871,0.810,0.808,0.811,0.862,0.780,0.815,(5.9120)+(0.0439)Ser+(-0.0851)Asn+(-0.0054)Ala+(-0.0742)Cit+(0.0163)Pro+(-0.1348)Trp;0.847,0.874,0.779,0.779,0.737,0.792,0.854,0.791,(3.5077)+(-0.0006)Gly+(-0.0362)Tyr+(-0.0434)Val+(0.1434)Ile+(0.0887)Phe+(-0.1462)Trp;0.847,0.878,0.790,0.771,0.808,0.813,0.788,0.795,(6.2200)+(-0.1219)His+(0.0299)Thr+(-0.0218)Arg+(-0.0000)Lys+(0.1096)Phe+(-0.1297)Trp;0.847,0.877,0.816,0.826,0.837,0.794,0.766,0.806,(3.0301)+(0.0397)Thr+(-0.0104)Val+(-0.3495)Met+(0.0016)Lys+(0.1474)Phe+(-0.1514)Trp;0.847,0.879,0.814,0.794,0.823,0.848,0.825,0.823,(3.4568)+(0.0091)Gln+(-0.1190)His+(-0.0864)Cit+(0.0352)Orn+(0.1063)Phe+(-0.1343)Trp;0.847,0.874,0.777,0.779,0.735,0.791,0.852,0.789,(3.2385)+(0.0005)Gln+(-0.0362)Tyr+(-0.0432)Val+(0.1424)Ile+(0.0886)Phe+(-0.1482)Trp;0.847,0.870,0.793,0.783,0.743,0.877,0.861,0.816,(4.2040)+(0.0311)Thr+(-0.0054)Ala+(-0.0590)Val+(-0.3606)Met+(0.0009)Lys+(0.2143)Ile;0.847,0.868,0.772,0.749,0.750,0.828,0.835,0.791,(6.7078)+(0.0005)Gly+(-0.0829)His+(0.0150)Thr+(-0.0281)Val+(0.1320)Ile+(-0.1174)Trp;0.847,0.872,0.807,0.803,0.789,0.814,0.847,0.813,(3.9554)+(-0.0719)Asn+(0.0022)Gly+(0.1357)Ile+(-0.0723)Leu+(0.0752)Phe+(-0.1429)Trp;0.847,0.869,0.790,0.776,0.766,0.842,0.844,0.807,(5.0804)+(0.0024)Gln+(0.0095)Thr+(-0.0767)Cit+(-0.0350)Val+(0.1440)Ile+(-0.1578)Trp;0.847,0.875,0.786,0.797,0.772,0.798,0.778,0.786,(1.3508)+(0.0485)Ser+(-0.1360)Asn+(0.0060)Pro+(-0.0370)Tyr+(0.1067)Phe+(-0.1417)Trp;0.847,0.876,0.811,0.804,0.768,0.854,0.887,0.828,(-0.2087)+(0.0059)Gln+(-0.0121)Arg+(-0.0

636)Val+(-0.4212)Met+(0.1996)Ile+(0.1254)Phe;0.847,0.868,0.728,0.709,0.698,0.807,0.783,0.749,(0.1809)+(0.0409)Ser+(-0.1405)His+(-0.0550)Tyr+(0.1109)Ile+(-0.0523)Leu+(0.1151)Phe;0.847,0.878,0.818,0.815,0.804,0.816,0.853,0.822,(2.9666)+(-0.2668)Met+(0.0102)Lys+(0.1616)Ile+(-0.0843)Leu+(0.1114)Phe+(-0.1344)Trp;0.847,0.877,0.821,0.829,0.847,0.807,0.760,0.811,(1.6531)+(0.0056)Gln+(0.0422)Thr+(-0.0263)Arg+(-0.3595)Met+(0.1366)Phe+(-0.1652)Trp;0.847,0.877,0.804,0.796,0.750,0.855,0.905,0.826,(1.5294)+(-0.0049)Ala+(-0.0652)Val+(-0.3768)Met+(0.0073)Lys+(0.2084)Ile+(0.1182)Phe;0.847,0.870,0.805,0.804,0.808,0.854,0.766,0.808,(5.0552)+(0.0420)Ser+(-0.0047)Ala+(-0.0701)Cit+(0.0186)Pro+(-0.1459)Met+(-0.1313)Trp;0.847,0.875,0.810,0.800,0.818,0.833,0.804,0.814,(5.1423)+(0.0056)Gly+(-0.1058)His+(-0.1498)Met+(0.0193)Orn+(0.1295)Phe+(-0.1012)Trp;0.847,0.878,0.819,0.814,0.808,0.821,0.858,0.825,(3.3969)+(0.0013)Pro+(-0.2440)Met+(0.1557)Ile+(-0.0771)Leu+(0.1110)Phe+(-0.1283)Trp;0.847,0.874,0.803,0.791,0.776,0.847,0.860,0.819,(6.3356)+(0.0023)Gly+(0.0042)Pro+(-0.0437)Val+(-0.2031)Met+(0.1728)Ile+(-0.1070)Trp;0.847,0.870,0.789,0.776,0.748,0.872,0.850,0.812,(5.2310)+(-0.0669)Asn+(0.0357)Thr+(-0.0655)Val+(-0.3389)Met+(0.2026)Ile+(0.0113)Leu;0.847,0.880,0.812,0.820,0.802,0.819,0.810,0.813,(0.9135)+(0.0444)Ser+(-0.1522)Asn+(0.0027)Gln+(-0.0012)Leu+(0.0918)Phe+(-0.1508)Trp;0.847,0.877,0.791,0.767,0.811,0.821,0.794,0.798,(5.8286)+(-0.1099)His+(0.0271)Thr+(-0.0638)Cit+(0.0006)Val+(0.1177)Phe+(-0.1438)Trp;0.847,0.874,0.821,0.815,0.787,0.863,0.876,0.835,(5.0438)+(0.0058)Gln+(-0.0105)Arg+(-0.0422)Val+(-0.2050)Met+(0.1723)Ile+(-0.1131)Trp;0.847,0.872,0.798,0.785,0.757,0.846,0.883,0.818,(2.5452)+(-0.0491)Asn+(-0.0658)Val+(-0.3393)Met+(0.0184)Orn+(0.1984)Ile+(0.1131)Phe;0.847,0.880,0.802,0.805,0.796,0.818,0.796,0.804,(1.4647)+(0.0474)Ser+(-0.1345)Asn+(-0.0033)Lys+(0.0008)Leu+(0.0940)Phe+(-0.1476)Trp;0.847,0.877,0.808,0.803,0.804,0.814,0

.829,0.812,(1.9116)+(0.0557)Ser+(-0.1406)Asn+(-0.0069)Gly+(0.0076)Orn+(0.0850)Phe+(-0.1503)Trp;0.847,0.879,0.814,0.810,0.804,0.825,0.835,0.819,(3.4416)+(0.0088)Gln+(-0.1343)His+(-0.0191)Tyr+(0.0126)Orn+(0.1053)Phe+(-0.1129)Trp;0.847,0.875,0.797,0.787,0.823,0.860,0.727,0.799,(4.5739)+(0.0394)Ser+(-0.1025)Cit+(0.0119)Pro+(-0.1743)Met+(0.0449)Orn+(-0.1450)Trp;0.847,0.870,0.778,0.761,0.778,0.848,0.772,0.790,(5.3934)+(0.0362)Ser+(-0.0990)His+(-0.0046)Ala+(0.0121)Pro+(0.0249)Orn+(-0.1022)Trp;0.847,0.875,0.816,0.822,0.812,0.872,0.765,0.818,(5.2694)+(0.0255)Ser+(0.0070)Gln+(-0.1030)His+(0.0191)Thr+(-0.1360)Met+(-0.0999)Trp;0.847,0.873,0.805,0.799,0.795,0.840,0.818,0.813,(5.9840)+(-0.0191)Asn+(0.0218)Thr+(-0.2026)Met+(0.1429)Ile+(-0.0556)Leu+(-0.1332)Trp;0.847,0.872,0.798,0.794,0.819,0.854,0.722,0.797,(5.0570)+(0.0370)Ser+(0.0148)Thr+(-0.0710)Cit+(0.0136)Pro+(-0.2080)Met+(-0.1415)Trp;0.847,0.868,0.784,0.760,0.778,0.826,0.826,0.798,(6.9238)+(-0.0928)His+(0.0144)Thr+(0.0003)Lys+(0.1034)Ile+(-0.0287)Leu+(-0.1230)Trp;0.847,0.872,0.793,0.780,0.752,0.847,0.873,0.813,(0.9806)+(0.0041)Gly+(0.0097)Tyr+(-0.0650)Val+(-0.4204)Met+(0.2031)Ile+(0.1210)Phe;0.847,0.870,0.797,0.784,0.760,0.844,0.873,0.815,(7.7145)+(-0.0549)His+(-0.0053)Ala+(-0.0077)Arg+(-0.0329)Val+(0.1560)Ile+(-0.1046)Trp;0.847,0.879,0.814,0.788,0.819,0.828,0.862,0.824,(5.5928)+(-0.0965)His+(0.0062)Arg+(-0.1824)Met+(0.0572)Ile+(0.1084)Phe+(-0.1180)Trp;0.847,0.871,0.814,0.796,0.806,0.846,0.853,0.825,(5.1727)+(-0.0434)Asn+(0.0103)Gln+(-0.1163)His+(0.0045)Tyr+(0.0623)Ile+(-0.1218)Trp;0.847,0.875,0.777,0.752,0.801,0.855,0.736,0.786,(5.5286)+(0.0375)Ser+(-0.0856)His+(-0.0814)Cit+(0.0090)Pro+(0.0460)Orn+(-0.1209)Trp;0.847,0.872,0.765,0.726,0.782,0.813,0.795,0.779,(3.2525)+(-0.1546)His+(0.0444)Thr+(-0.0011)Pro+(-0.3671)Met+(0.0528)Ile+(0.1217)Phe;0.847,0.874,0.791,0.759,0.797,0.818,0.845,0.805,(5.8811)+(-0.0085)Asn+(-0.1113)His+(0.0143)Orn+(0.0455)Ile+(0.0717)Phe+

(-0.1276)Trp;0.847,0.874,0.775,0.764,0.751,0.806,0.832,0.788,(3.8908)+(0.0201)Thr+(-0.0396)Arg+(-0.0503)Val+(0.1588)Ile+(0.0791)Phe+(-0.1552)Trp;0.847,0.877,0.786,0.755,0.809,0.816,0.799,0.795,(5.7878)+(-0.1140)His+(0.0271)Thr+(-0.0638)Cit+(0.0115)Leu+(0.1083)Phe+(-0.1489)Trp;0.847,0.874,0.781,0.771,0.774,0.808,0.807,0.790,(0.9704)+(0.0472)Ser+(-0.1469)Asn+(0.0020)Thr+(0.0416)Ile+(0.0691)Phe+(-0.1619)Trp;0.847,0.874,0.801,0.786,0.823,0.870,0.746,0.806,(6.5021)+(0.0418)Ser+(-0.0658)Asn+(-0.0674)His+(-0.0838)Cit+(0.0546)Orn+(-0.1063)Trp;0.847,0.869,0.819,0.821,0.810,0.866,0.798,0.824,(4.8295)+(0.0334)Ser+(-0.0858)Asn+(0.0083)Gln+(-0.1023)His+(0.0078)Lys+(-0.1008)Trp;0.847,0.881,0.784,0.777,0.793,0.806,0.767,0.786,(6.2132)+(-0.1209)His+(0.0351)Thr+(-0.0227)Arg+(-0.0359)Tyr+(0.1289)Phe+(-0.1195)Trp;0.847,0.873,0.804,0.811,0.787,0.804,0.820,0.806,(1.8627)+(0.0587)Ser+(-0.1262)Asn+(-0.0076)Gly+(-0.0378)Tyr+(0.1096)Phe+(-0.1391)Trp;0.847,0.871,0.811,0.806,0.794,0.813,0.858,0.818,(4.2581)+(-0.0653)Asn+(-0.0000)Orn+(0.1349)Ile+(-0.0719)Leu+(0.0735)Phe+(-0.1434)Trp;0.847,0.875,0.787,0.773,0.803,0.853,0.743,0.793,(5.8739)+(0.0379)Ser+(-0.1059)His+(0.0199)Thr+(0.0137)Val+(-0.1412)Met+(-0.1110)Trp;0.847,0.873,0.778,0.782,0.736,0.792,0.844,0.788,(3.3035)+(-0.0389)Tyr+(-0.0336)Val+(0.1663)Ile+(-0.0329)Leu+(0.0925)Phe+(-0.1395)Trp;0.847,0.873,0.765,0.727,0.783,0.814,0.793,0.779,(3.3772)+(-0.1515)His+(0.0455)Thr+(-0.3621)Met+(-0.0043)Lys+(0.0527)Ile+(0.1227)Phe;0.847,0.871,0.812,0.793,0.809,0.847,0.846,0.824,(4.8695)+(0.0112)Gln+(-0.1074)His+(-0.0495)Cit+(-0.0106)Arg+(0.0731)Ile+(-0.1323)Trp;0.847,0.874,0.773,0.746,0.737,0.883,0.844,0.802,(0.5272)+(0.0459)Ser+(-0.0006)Gln+(0.0379)Tyr+(-0.0598)Val+(-0.4088)Met+(0.2120)Ile;0.847,0.874,0.808,0.796,0.780,0.847,0.873,0.824,(6.9265)+(-0.0143)Asn+(0.0044)Pro+(-0.0437)Val+(-0.1819)Met+(0.1707)Ile+(-0.1050)Trp;0.847,0.871,0.822,0.818,0.817,0.868,0.807,0.828,(4.7249)+(0.0354)

Ser+(-0.0842)Asn+(0.0087)Gln+(-0.1068)His+(0.0253)Tyr+(-0.1050)Trp;0.847,0.879,0.810,0.794,0.764,0
.867,0.904,0.832,(2.4200)+(-0.0058)Ala+(-0.0512)Cit+(-0.0605)Val+(-0.3204)Met+(0.2059)Ile+(0.1221)Phe;0.847,0.877,0.790,0.783,0.778,0.812,0.816,0.798,(0.4928)+(0.0460)Ser+(-0.1543)Asn+(0.0022)Gln+(0.0415)Ile+(0.0682)Phe+(-0.1627)Trp;0.847,0.877,0.806,0.812,0.806,0.817,0.781,0.804,(1.5936)+(0.0489)Ser+(-0.1243)Asn+(-0.0169)Arg+(0.0002)Lys+(0.0983)Phe+(-0.1486)Trp;0.847,0.869,0.802,0.786,0.796,0.836,0.831,0.812,(4.8999)+(0.0020)Gly+(0.0106)Gln+(-0.1234)His+(-0.0190)Arg+(0.0683)Ile+(-0.1219)Trp;0.847,0.869,0.806,0.792,0.783,0.845,0.863,0.821,(7.2398)+(-0.0712)His+(-0.0060)Ala+(0.0070)Lys+(0.1343)Ile+(-0.0452)Leu+(-0.1150)Trp;0.847,0.875,0.812,0.814,0.834,0.792,0.774,0.803,(3.4236)+(-0.0388)Asn+(0.0373)Thr+(0.0051)Pro+(-0.3230)Met+(0.1254)Phe+(-0.1567)Trp;0.847,0.870,0.782,0.751,0.789,0.826,0.816,0.796,(7.3881)+(-0.0303)Asn+(-0.1062)His+(0.0194)Thr+(0.0161)Orn+(0.0593)Ile+(-0.1263)Trp;0.847,0.874,0.791,0.762,0.800,0.839,0.815,0.804,(7.7214)+(-0.0265)Asn+(-0.0851)His+(0.0232)Thr+(-0.0509)Cit+(0.0666)Ile+(-0.1350)Trp;0.847,0.868,0.789,0.782,0.738,0.842,0.878,0.810,(5.4855)+(0.0087)Thr+(-0.0097)Ala+(0.0053)Pro+(-0.0417)Val+(0.1648)Ile+(-0.1346)Trp;0.847,0.879,0.810,0.823,0.788,0.833,0.806,0.812,(1.6075)+(0.0478)Ser+(-0.1271)Asn+(-0.0037)Ala+(-0.0251)Tyr+(0.1133)Phe+(-0.1367)Trp;0.847,0.874,0.804,0.786,0.782,0.846,0.869,0.821,(7.6089)+(-0.0457)His+(-0.0352)Val+(-0.1371)Met+(0.1636)Ile+(-0.0021)Leu+(-0.0944)Trp;0.847,0.869,0.827,0.827,0.795,0.861,0.867,0.838,(4.4521)+(0.0059)Gln+(-0.0059)Ala+(-0.1555)Met+(0.1663)Ile+(-0.0647)Leu+(-0.1284)Trp;0.847,0.879,0.790,0.770,0.808,0.813,0.788,0.794,(6.1946)+(-0.1216)His+(0.0295)Thr+(-0.0219)Arg+(0.0010)Pro+(0.1085)Phe+(-0.1299)Trp;0.847,0.876,0.769,0.744,0.775,0.835,0.776,0.782,(-0.2694)+(0.0615)Ser+(-0.0013)Gly+(-0.1454)His+(-0.004

6)Tyr+(-0.2720)Met+(0.1620)Phe;0.847,0.878,0.794,0.795,0.790,0.808,0.794,0.796,(1.3630)+(0.0471)Ser+(-0.1456)Asn+(0.0038)Pro+(0.0029)Orn+(0.0875)Phe+(-0.1511)Trp;0.847,0.872,0.770,0.762,0.749,0.804,0.809,0.781,(0.3564)+(0.0271)Ser+(-0.0055)Pro+(0.1459)Ile+(-0.0741)Leu+(0.0667)Phe+(-0.1658)Trp;0.847,0.868,0.788,0.779,0.783,0.856,0.778,0.799,(6.0626)+(0.0445)Ser+(-0.0560)Asn+(-0.0817)His+(-0.0034)Ala+(0.0139)Pro+(-0.0964)Trp;0.847,0.872,0.776,0.750,0.787,0.833,0.779,0.787,(3.5003)+(0.0395)Ser+(-0.0903)Cit+(-0.0012)Arg+(-0.0139)Lys+(0.0807)Ile+(-0.1719)Trp;0.847,0.872,0.787,0.756,0.795,0.840,0.813,0.801,(7.5547)+(-0.0861)His+(0.0221)Thr+(-0.0531)Cit+(-0.0052)Lys+(0.0715)Ile+(-0.1354)Trp;0.847,0.872,0.805,0.795,0.756,0.856,0.894,0.825,(6.9975)+(-0.0532)Asn+(-0.0081)Ala+(0.0073)Pro+(-0.0428)Val+(0.1653)Ile+(-0.1120)Trp;0.847,0.868,0.810,0.805,0.833,0.865,0.738,0.810,(5.8636)+(0.0402)Ser+(-0.1039)Asn+(-0.1120)Cit+(0.0034)Tyr+(0.0545)Orn+(-0.1437)Trp;0.847,0.867,0.792,0.775,0.769,0.837,0.854,0.809,(5.2483)+(0.0067)Gln+(-0.0947)His+(-0.0233)Val+(-0.0010)Lys+(0.1208)Ile+(-0.1148)Trp;0.847,0.882,0.820,0.807,0.820,0.837,0.844,0.827,(3.2197)+(0.0104)Gln+(-0.1236)His+(-0.0624)Cit+(0.0043)Pro+(0.1120)Phe+(-0.1315)Trp;0.847,0.875,0.802,0.788,0.801,0.833,0.816,0.809,(5.4928)+(0.0040)Gly+(-0.1131)His+(-0.0034)Ala+(0.0219)Orn+(0.1033)Phe+(-0.1114)Trp;0.847,0.871,0.789,0.767,0.776,0.846,0.833,0.805,(5.1822)+(0.0019)Gln+(-0.0981)Cit+(-0.0360)Val+(0.0402)Orn+(0.1389)Ile+(-0.1534)Trp;0.847,0.874,0.809,0.801,0.811,0.861,0.791,0.816,(3.7330)+(0.0360)Ser+(0.0080)Gln+(-0.1203)His+(0.0149)Val+(-0.1115)Met+(-0.1076)Trp;0.846,0.876,0.785,0.774,0.782,0.814,0.798,0.792,(0.9811)+(0.0503)Ser+(-0.1219)Asn+(-0.0198)Arg+(0.0444)Ile+(0.0755)Phe+(-0.1616)Trp;0.846,0.871,0.804,0.794,0.774,0.848,0.861,0.819,(6.3110)+(0.0024)Gly+(-0.0397)Val+(-0.1891)Met+(0.1846)Ile+(-0.0121)Leu+(-0.1062)Trp;0.846,0.875,0.814,0.804,0.776,0.857,0.889,0.831,

(6.9112)+(-0.0047)Ala+(-0.0022)Arg+(-0.0430)Val+(-0.1482)Met+(0.1834)Ile+(-0.1050)Trp;0.846,0.871,0.763,0.752,0.712,0.850,0.835,0.787,(0.2357)+(0.0564)Ser+(-0.2130)Asn+(-0.0225)Arg+(-0.0642)Val+(0.1765)Ile+(0.0962)Phe;0.846,0.867,0.805,0.799,0.755,0.860,0.886,0.825,(6.7523)+(-0.0566)Asn+(0.0020)Gly+(-0.0065)Ala+(-0.0422)Val+(0.1704)Ile+(-0.1118)Trp;0.846,0.869,0.801,0.787,0.779,0.847,0.852,0.816,(7.0998)+(0.0032)Gly+(-0.0716)His+(-0.0057)Ala+(0.1322)Ile+(-0.0399)Leu+(-0.1103)Trp;0.846,0.876,0.785,0.766,0.738,0.882,0.867,0.813,(2.3154)+(0.0541)Ser+(-0.0781)Asn+(-0.0052)Gly+(-0.0547)Val+(-0.2585)Met+(0.1983)Ile;0.846,0.875,0.759,0.720,0.746,0.861,0.812,0.785,(2.2069)+(0.0531)Ser+(-0.1185)His+(-0.0071)Ala+(0.0098)Pro+(-0.2158)Met+(0.0841)Ile;0.846,0.871,0.792,0.776,0.785,0.817,0.829,0.802,(3.5792)+(0.0076)Thr+(-0.1001)Cit+(0.1439)Ile+(-0.0701)Leu+(0.0875)Phe+(-0.1711)Trp;0.846,0.873,0.815,0.819,0.844,0.799,0.753,0.804,(3.9343)+(-0.0306)Asn+(0.0443)Thr+(-0.0192)Arg+(-0.3086)Met+(0.1332)Phe+(-0.1586)Trp;0.846,0.871,0.791,0.784,0.746,0.838,0.873,0.810,(0.7622)+(0.0036)Gly+(-0.0665)Val+(-0.4260)Met+(0.0068)Lys+(0.2030)Ile+(0.1230)Phe;0.846,0.873,0.790,0.781,0.754,0.851,0.843,0.807,(2.9333)+(0.0290)Ser+(-0.0093)Ala+(-0.0000)Tyr+(0.1656)Ile+(-0.0651)Leu+(-0.1444)Trp;0.846,0.876,0.785,0.762,0.747,0.882,0.854,0.812,(1.6560)+(0.0485)Ser+(-0.0046)Gly+(-0.0405)Cit+(-0.0510)Val+(-0.3207)Met+(0.1941)Ile;0.846,0.875,0.774,0.745,0.783,0.822,0.800,0.787,(4.6124)+(0.0083)Gly+(-0.0999)His+(-0.0757)Cit+(0.0586)Ile+(0.0974)Phe+(-0.1424)Trp;0.846,0.870,0.816,0.806,0.836,0.862,0.767,0.818,(6.0204)+(0.0453)Ser+(-0.1008)Asn+(-0.0041)Gly+(-0.1072)Cit+(0.0543)Orn+(-0.1427)Trp;0.846,0.873,0.763,0.744,0.717,0.851,0.845,0.789,(0.3293)+(0.0558)Ser+(-0.2326)Asn+(-0.0576)Cit+(-0.0612)Val+(0.1717)Ile+(0.1014)Phe;0.846,0.878,0.788,0.766,0.808,0.817,0.782,0.793,(6.1536)+(-0.1231)His+(0.0278)Thr+(-0.0228)Arg+(0.0149)Orn+(0.1031)Phe+(-0.1

291)Trp;0.846,0.875,0.771,0.747,0.781,0.840,0.765,0.783,(-0.1566)+(0.0606)Ser+(-0.1382)His+(-0.0330)Cit+(-0.0034)Tyr+(-0.2747)Met+(0.1656)Phe;0.846,0.867,0.792,0.775,0.768,0.836,0.853,0.808,(5.2113)+(0.0066)Gln+(-0.0946)His+(-0.0225)Val+(0.1224)Ile+(-0.0029)Leu+(-0.1152)Trp;0.846,0.874,0.777,0.745,0.775,0.865,0.801,0.796,(0.9392)+(0.0431)Ser+(0.0080)Gln+(-0.1323)His+(-0.0505)Cit+(-0.2389)Met+(0.0837)Ile;0.846,0.880,0.788,0.757,0.814,0.829,0.783,0.796,(5.6650)+(-0.1056)His+(0.0217)Thr+(-0.0872)Cit+(0.0354)Orn+(0.1083)Phe+(-0.1455)Trp;0.846,0.877,0.837,0.825,0.846,0.829,0.858,0.839,(1.2659)+(0.0083)Gln+(-0.0940)Cit+(-0.2482)Met+(0.0596)Ile+(0.1096)Phe+(-0.1715)Trp;0.846,0.876,0.768,0.744,0.775,0.835,0.771,0.781,(-0.3310)+(0.0599)Ser+(-0.1468)His+(-0.0029)Tyr+(-0.2761)Met+(0.0001)Lys+(0.1630)Phe;0.846,0.881,0.831,0.824,0.828,0.848,0.842,0.836,(3.2612)+(0.0118)Gln+(-0.1256)His+(-0.0526)Cit+(-0.0128)Arg+(0.1174)Phe+(-0.1252)Trp;0.846,0.875,0.797,0.783,0.804,0.821,0.805,0.803,(5.5627)+(-0.0264)Asn+(0.0046)Gly+(-0.1111)His+(0.0209)Orn+(0.0994)Phe+(-0.1112)Trp;0.846,0.872,0.807,0.805,0.819,0.851,0.758,0.808,(5.5451)+(0.0466)Ser+(-0.0621)Asn+(-0.0665)Cit+(0.0146)Pro+(-0.1189)Met+(-0.1329)Trp;0.846,0.871,0.771,0.743,0.795,0.827,0.757,0.781,(2.9634)+(0.0328)Ser+(-0.1193)Cit+(0.0007)Pro+(0.0313)Orn+(0.0587)Ile+(-0.1918)Trp;0.846,0.877,0.821,0.806,0.813,0.855,0.850,0.831,(4.8550)+(0.0116)Gln+(-0.1094)His+(-0.0110)Arg+(-0.1163)Met+(0.0750)Ile+(-0.1129)Trp;0.846,0.871,0.785,0.766,0.782,0.831,0.810,0.797,(7.5547)+(-0.0872)His+(0.0208)Thr+(-0.0189)Arg+(0.1116)Ile+(-0.0333)Leu+(-0.1231)Trp;0.846,0.876,0.815,0.813,0.779,0.840,0.880,0.828,(3.7893)+(-0.0095)Ala+(-0.0020)Lys+(0.1604)Ile+(-0.0758)Leu+(0.0744)Phe+(-0.1448)Trp;0.846,0.874,0.810,0.795,0.819,0.835,0.812,0.815,(5.2207)+(0.0068)Gly+(-0.1090)His+(-0.1608)Met+(0.0146)Leu+(0.1295)Phe+(-0.1085)Trp;0.846,0.867,0.772,0.749,0.750,0.827,0.837,0.791,(6.7975)+(-0.0843)Hi

s+(0.0160)Thr+(-0.0301)Val+(0.1274)Ile+(0.0064)Leu+(-0.1182)Trp;0.846,0.879,0.791,0.766,0.810,0.820,0.795,0.798,(5.7938)+(-0.1091)His+(0.0265)Thr+(-0.0642)Cit+(0.0017)Pro+(0.1170)Phe+(-0.1434)Trp;0.846,0.878,0.805,0.799,0.803,0.808,0.821,0.808,(2.1527)+(0.0536)Ser+(-0.1500)Asn+(-0.0071)Gly+(0.0086)Thr+(0.0874)Phe+(-0.1552)Trp;0.846,0.875,0.798,0.811,0.784,0.808,0.785,0.797,(1.4800)+(0.0482)Ser+(-0.1289)Asn+(-0.0315)Tyr+(-0.0019)Lys+(0.1108)Phe+(-0.1390)Trp;0.846,0.873,0.775,0.775,0.735,0.791,0.848,0.787,(3.3671)+(-0.0368)Tyr+(-0.0437)Val+(0.0061)Orn+(0.1424)Ile+(0.0861)Phe+(-0.1463)Trp;0.846,0.872,0.798,0.788,0.769,0.856,0.847,0.815,(6.8925)+(-0.0621)Asn+(0.0052)Gly+(-0.0651)Cit+(-0.0379)Val+(0.1564)Ile+(-0.1243)Trp;0.846,0.871,0.792,0.780,0.759,0.850,0.853,0.810,(6.7546)+(-0.1195)Asn+(0.0169)Thr+(-0.0466)Val+(0.0191)Orn+(0.1569)Ile+(-0.1168)Trp;0.846,0.869,0.803,0.786,0.800,0.834,0.833,0.813,(5.1225)+(0.0104)Gln+(-0.1241)His+(-0.0200)Arg+(0.0136)Orn+(0.0633)Ile+(-0.1226)Trp;0.846,0.874,0.778,0.759,0.745,0.881,0.824,0.802,(1.7520)+(0.0415)Ser+(-0.0509)Cit+(-0.0455)Val+(-0.3133)Met+(0.2090)Ile+(-0.0189)Leu;0.846,0.873,0.810,0.788,0.808,0.845,0.849,0.822,(4.7744)+(0.0100)Gln+(-0.1064)His+(-0.0564)Cit+(0.0040)Tyr+(0.0720)Ile+(-0.1365)Trp;0.846,0.873,0.778,0.752,0.737,0.877,0.860,0.807,(1.1894)+(0.0497)Ser+(-0.0079)Gly+(-0.0562)Val+(-0.3437)Met+(0.0208)Orn+(0.1979)Ile;0.846,0.867,0.783,0.755,0.786,0.827,0.821,0.797,(7.5402)+(-0.0269)Asn+(-0.1021)His+(0.0214)Thr+(-0.0012)Lys+(0.0638)Ile+(-0.1264)Trp;0.846,0.872,0.801,0.789,0.758,0.842,0.892,0.820,(2.4803)+(-0.0384)Asn+(-0.0004)Tyr+(-0.0645)Val+(-0.3477)Met+(0.2005)Ile+(0.1204)Phe;0.846,0.879,0.812,0.785,0.820,0.831,0.853,0.822,(5.7759)+(-0.0979)His+(-0.1701)Met+(0.0119)Orn+(0.0539)Ile+(0.1030)Phe+(-0.1172)Trp;0.846,0.867,0.819,0.823,0.811,0.865,0.793,0.823,(4.9588)+(0.0336)Ser+(-0.0769)Asn+(0.0086)Gln+(-0.0993)His+(0.0007)Ala+(-0.0957)Trp;0.846,0.871,0.8

01,0.790,0.757,0.842,0.891,0.820,(2.5018)+(-0.0371)Asn+(-0.0014)Arg+(-0.0645)Val+(-0.3467)Met+(0.2005)Ile+(0.1204)Phe;0.846,0.871,0.806,0.798,0.790,0.840,0.838,0.817,(5.0597)+(0.0104)Gln+(-0.1029)His+(-0.0224)Arg+(0.1173)Ile+(-0.0354)Leu+(-0.1175)Trp;0.846,0.867,0.792,0.775,0.768,0.836,0.854,0.808,(5.2299)+(0.0066)Gln+(-0.0951)His+(-0.0004)Pro+(-0.0233)Val+(0.1208)Ile+(-0.1153)Trp;0.846,0.870,0.754,0.721,0.741,0.831,0.810,0.776,(-0.5634)+(0.0514)Ser+(-0.1395)Asn+(0.0075)Gln+(-0.1693)His+(0.0361)Ile+(0.0886)Phe;0.846,0.868,0.781,0.757,0.776,0.828,0.819,0.795,(6.7255)+(0.0016)Gly+(-0.0943)His+(0.0133)Thr+(0.1035)Ile+(-0.0279)Leu+(-0.1218)Trp;0.846,0.869,0.778,0.755,0.761,0.826,0.843,0.796,(6.7855)+(-0.0777)His+(-0.0304)Val+(0.0250)Orn+(0.0005)Lys+(0.1315)Ile+(-0.1098)Trp;0.846,0.869,0.775,0.752,0.758,0.826,0.836,0.793,(6.5827)+(0.0017)Gly+(-0.0798)His+(-0.0297)Val+(0.0240)Orn+(0.1310)Ile+(-0.1095)Trp;0.846,0.877,0.813,0.788,0.820,0.824,0.859,0.823,(5.7473)+(-0.0937)His+(0.0024)Pro+(-0.1781)Met+(0.0543)Ile+(0.1077)Phe+(-0.1182)Trp;0.846,0.876,0.769,0.748,0.779,0.835,0.758,0.780,(-0.1833)+(0.0622)Ser+(-0.1435)His+(-0.0119)Arg+(-0.0044)Tyr+(-0.2598)Met+(0.1649)Phe;0.846,0.873,0.758,0.730,0.768,0.802,0.783,0.771,(3.4207)+(-0.1519)His+(0.0456)Thr+(-0.0305)Tyr+(-0.3361)Met+(0.0534)Ile+(0.1298)Phe;0.846,0.870,0.775,0.746,0.785,0.834,0.788,0.788,(6.7663)+(0.0045)Gly+(-0.0916)His+(0.0174)Thr+(-0.0586)Cit+(0.0721)Ile+(-0.1358)Trp;0.846,0.866,0.773,0.752,0.750,0.829,0.836,0.792,(6.8203)+(-0.0826)His+(0.0160)Thr+(-0.0018)Pro+(-0.0282)Val+(0.1341)Ile+(-0.1176)Trp;0.846,0.867,0.772,0.750,0.750,0.829,0.837,0.792,(6.8782)+(-0.0809)His+(0.0164)Thr+(-0.0283)Val+(-0.0026)Lys+(0.1336)Ile+(-0.1165)Trp;0.846,0.874,0.802,0.799,0.817,0.884,0.722,0.805,(6.9350)+(0.0344)Ser+(-0.0797)His+(0.0251)Thr+(-0.0431)Cit+(-0.1169)Met+(-0.1035)Trp;0.846,0.872,0.764,0.727,0.782,0.808,0.795,0.778,(3.

2210)+(-0.1528)His+(0.0453)Thr+(-0.3733)Met+(-0.0068)Orn+(0.0532)Ile+(0.1241)Phe;0.846,0.874,0.814,0.807,0.819,0.836,0.804,0.817,(5.0469)+(0.0135)Asn+(0.0062)Gly+(-0.1049)His+(-0.1614)Met+(0.1421)Phe+(-0.1024)Trp;0.846,0.872,0.777,0.747,0.799,0.828,0.777,0.788,(3.0874)+(0.0369)Ser+(-0.0032)Gly+(-0.1147)Cit+(0.0312)Orn+(0.0581)Ile+(-0.1906)Trp;0.846,0.879,0.800,0.803,0.795,0.814,0.791,0.801,(1.6453)+(0.0445)Ser+(-0.1504)Asn+(0.0066)Thr+(-0.0018)Leu+(0.0929)Phe+(-0.1514)Trp;0.846,0.877,0.794,0.780,0.768,0.819,0.870,0.809,(4.3675)+(-0.0734)Cit+(-0.0105)Arg+(-0.0418)Val+(0.1473)Ile+(0.0863)Phe+(-0.1541)Trp;0.846,0.874,0.795,0.788,0.805,0.866,0.740,0.800,(6.2439)+(0.0319)Ser+(-0.0933)His+(0.0168)Thr+(-0.1241)Met+(0.0275)Orn+(-0.0988)Trp;0.846,0.869,0.778,0.755,0.761,0.826,0.843,0.796,(6.8054)+(-0.0774)His+(-0.0305)Val+(0.0252)Orn+(0.1316)Ile+(0.0002)Leu+(-0.1095)Trp;0.846,0.877,0.816,0.791,0.808,0.849,0.877,0.831,(6.2089)+(-0.0805)His+(-0.0073)Ala+(-0.0671)Cit+(0.0662)Ile+(0.0995)Phe+(-0.1397)Trp;0.846,0.875,0.816,0.811,0.820,0.839,0.807,0.819,(5.2650)+(0.0064)Gly+(-0.1019)His+(-0.0007)Ala+(-0.1472)Met+(0.1409)Phe+(-0.1014)Trp;0.846,0.872,0.799,0.785,0.777,0.842,0.852,0.814,(6.5952)+(-0.0103)Arg+(-0.0467)Val+(-0.1841)Met+(0.0298)Orn+(0.1758)Ile+(-0.1062)Trp;0.846,0.877,0.817,0.825,0.838,0.795,0.767,0.806,(3.1065)+(0.0406)Thr+(-0.0100)Val+(-0.3472)Met+(-0.0017)Orn+(0.1485)Phe+(-0.1513)Trp;0.846,0.869,0.806,0.790,0.799,0.838,0.838,0.816,(5.0363)+(0.0110)Gln+(-0.1224)His+(-0.0188)Arg+(0.0009)Pro+(0.0663)Ile+(-0.1227)Trp;0.846,0.875,0.802,0.788,0.763,0.849,0.889,0.822,(2.8063)+(-0.0364)Asn+(-0.0440)Cit+(-0.0631)Val+(-0.3282)Met+(0.1989)Ile+(0.1257)Phe;0.846,0.869,0.779,0.760,0.788,0.837,0.771,0.789,(5.4839)+(0.0451)Ser+(-0.0507)Asn+(-0.0970)His+(0.0083)Pro+(0.0080)Val+(-0.1079)Trp;0.846,0.868,0.775,0.743,0.781,0.820,0.812,0.789,(7.1090)+(-0.1101)His+(0.0176)Thr+(0.0165)Orn+(-0.0040)Lys+(0.0628)Ile+(-0.1267)T

rp;0.846,0.881,0.827,0.827,0.819,0.835,0.838,0.830,(3.3441)+(0.0117)Gln+(-0.1351)His+(-0.0195)Arg+(-0.0130)Tyr+(0.1138)Phe+(-0.1120)Trp;0.846,0.874,0.789,0.756,0.795,0.816,0.846,0.803,(5.7946)+(-0.1125)His+(0.0142)Orn+(-0.0014)Lys+(0.0467)Ile+(0.0720)Phe+(-0.1278)Trp;0.846,0.873,0.806,0.795,0.777,0.846,0.869,0.822,(6.6540)+(0.0040)Pro+(-0.0406)Val+(-0.1911)Met+(0.1778)Ile+(-0.0095)Leu+(-0.1064)Trp;0.846,0.878,0.807,0.814,0.807,0.818,0.782,0.805,(1.6114)+(0.0489)Ser+(-0.1240)Asn+(-0.0168)Arg+(-0.0010)Leu+(0.0994)Phe+(-0.1478)Trp;0.846,0.870,0.811,0.803,0.786,0.869,0.846,0.826,(6.2379)+(0.0046)Gly+(-0.0082)Ala+(-0.0818)Cit+(0.1694)Ile+(-0.0601)Leu+(-0.1364)Trp;0.846,0.866,0.795,0.787,0.748,0.843,0.878,0.814,(5.6273)+(-0.0005)Gly+(-0.0083)Ala+(-0.0423)Val+(0.0174)Orn+(0.1658)Ile+(-0.1284)Trp;0.846,0.876,0.777,0.755,0.733,0.871,0.861,0.805,(1.2188)+(0.0521)Ser+(-0.0071)Gly+(0.0061)Pro+(-0.0541)Val+(-0.3495)Met+(0.1915)Ile;0.846,0.875,0.806,0.795,0.755,0.858,0.902,0.828,(2.0721)+(-0.0049)Ala+(-0.0048)Arg+(-0.0627)Val+(-0.3433)Met+(0.2067)Ile+(0.1189)Phe;0.846,0.870,0.780,0.756,0.771,0.845,0.816,0.797,(5.4244)+(0.0028)Gly+(-0.1001)Cit+(-0.0368)Val+(0.0423)Orn+(0.1426)Ile+(-0.1506)Trp;0.846,0.867,0.771,0.758,0.740,0.793,0.854,0.786,(3.2448)+(-0.0008)Gln+(0.0052)Thr+(-0.0448)Val+(0.1429)Ile+(0.0675)Phe+(-0.1593)Trp;0.846,0.868,0.830,0.830,0.816,0.872,0.825,0.836,(5.0303)+(0.0420)Ser+(-0.0762)Asn+(-0.0061)Gly+(0.0090)Gln+(-0.0965)His+(-0.0955)Trp;0.846,0.876,0.822,0.829,0.842,0.791,0.782,0.811,(1.3115)+(0.0047)Gln+(0.0373)Thr+(-0.3691)Met+(-0.0139)Orn+(0.1381)Phe+(-0.1658)Trp;0.846,0.872,0.801,0.792,0.755,0.844,0.889,0.820,(2.2008)+(-0.0529)Asn+(-0.0687)Val+(-0.3698)Met+(0.0109)Lys+(0.2035)Ile+(0.1217)Phe;0.846,0.867,0.766,0.744,0.714,0.873,0.854,0.796,(3.6655)+(0.0472)Ser+(-0.1088)Asn+(-0.0785)His+(-0.0061)Ala+(-0.0365)Val+(0.1573)Ile;0.846,0.877,0.807,0.783,0.794,0.836,0.873,0.822,(6.0996)+(-0.1038)His+(-0

.0061)Ala+(0.0009)Lys+(0.0583)Ile+(0.0819)Phe+(-0.1266)Trp;0.846,0.872,0.798,0.774,0.796,0.842,0.832,0.811,(-0.0238)+(0.0051)Gly+(0.0113)Gln+(-0.1587)His+(-0.3020)Met+(0.0515)Ile+(0.1138)Phe;0.846,0.869,0.806,0.791,0.799,0.835,0.838,0.816,(5.0074)+(0.0110)Gln+(-0.1235)His+(-0.0194)Arg+(0.0018)Lys+(0.0662)Ile+(-0.1235)Trp;0.846,0.871,0.791,0.781,0.800,0.856,0.753,0.798,(6.4068)+(0.0358)Ser+(-0.0674)Asn+(-0.0915)His+(0.0108)Thr+(0.0272)Orn+(-0.0999)Trp;0.846,0.870,0.813,0.799,0.796,0.867,0.846,0.827,(6.5865)+(-0.0089)Ala+(-0.1030)Cit+(0.0417)Orn+(0.1546)Ile+(-0.0594)Leu+(-0.1371)Trp;0.846,0.867,0.779,0.753,0.780,0.827,0.811,0.793,(7.2201)+(-0.0327)Asn+(0.0026)Gly+(-0.1040)His+(0.0196)Thr+(0.0646)Ile+(-0.1242)Trp;0.846,0.865,0.796,0.787,0.789,0.842,0.805,0.805,(4.3451)+(0.0397)Ser+(-0.0064)Gly+(0.0063)Gln+(-0.1126)His+(0.0092)Pro+(-0.1078)Trp;0.846,0.875,0.817,0.790,0.826,0.831,0.857,0.826,(5.8745)+(-0.0795)His+(-0.0521)Cit+(-0.1501)Met+(0.0585)Ile+(0.1161)Phe+(-0.1304)Trp;0.846,0.876,0.822,0.831,0.838,0.808,0.778,0.814,(3.1971)+(0.0405)Thr+(-0.0020)Ala+(-0.0092)Val+(-0.3354)Met+(0.1481)Phe+(-0.1505)Trp;0.846,0.870,0.807,0.790,0.802,0.839,0.839,0.817,(4.9884)+(0.0111)Gln+(-0.1246)His+(-0.0192)Arg+(0.0067)Tyr+(0.0664)Ile+(-0.1252)Trp;0.846,0.871,0.791,0.778,0.801,0.850,0.760,0.797,(6.2335)+(0.0466)Ser+(-0.0581)Asn+(-0.0713)His+(-0.0436)Cit+(0.0121)Pro+(-0.1076)Trp;0.846,0.874,0.802,0.793,0.794,0.826,0.826,0.810,(5.4984)+(0.0044)Gly+(-0.1073)His+(-0.0050)Ala+(0.0079)Pro+(0.1095)Phe+(-0.1146)Trp;0.846,0.872,0.776,0.749,0.787,0.833,0.780,0.787,(3.4857)+(0.0394)Ser+(-0.0913)Cit+(0.0008)Tyr+(-0.0143)Lys+(0.0807)Ile+(-0.1724)Trp;0.846,0.871,0.772,0.744,0.796,0.828,0.758,0.782,(2.9424)+(0.0325)Ser+(0.0001)Gln+(-0.1190)Cit+(0.0314)Orn+(0.0594)Ile+(-0.1915)Trp;0.846,0.869,0.774,0.744,0.795,0.830,0.765,0.784,(2.8888)+(0.0361)Ser+(-0.0072)Thr+(-0.1175)Cit+(0.0348)Orn+(0.0602)Ile+(-0.1863)Trp;0.845,0.874,0.813,0.81

6,0.821,0.810,0.789,0.809,(3.0267)+(0.0363)Thr+(-0.0055)Ala+(0.0089)Pro+(-0.3323)Met+(0.1302)Phe+(-0.1563)Trp;0.845,0.869,0.800,0.789,0.775,0.842,0.849,0.814,(5.4186)+(0.0091)Gln+(-0.0935)His+(-0.0227)Arg+(-0.0254)Val+(0.1294)Ile+(-0.1123)Trp;0.845,0.871,0.793,0.763,0.801,0.845,0.820,0.807,(7.1299)+(-0.0627)His+(-0.0761)Cit+(0.0424)Orn+(0.1140)Ile+(-0.0394)Leu+(-0.1253)Trp;0.845,0.872,0.787,0.775,0.785,0.823,0.794,0.794,(1.5017)+(0.0398)Ser+(-0.0096)Ala+(-0.1070)Cit+(0.0146)Pro+(0.1056)Phe+(-0.1793)Trp;0.845,0.870,0.825,0.831,0.816,0.874,0.795,0.829,(4.9778)+(0.0335)Ser+(-0.0624)Asn+(0.0089)Gln+(-0.0948)His+(-0.0424)Met+(-0.0935)Trp;0.845,0.867,0.771,0.750,0.748,0.828,0.836,0.790,(6.8200)+(-0.0812)His+(0.0160)Thr+(-0.0058)Tyr+(-0.0281)Val+(0.1326)Ile+(-0.1159)Trp;0.845,0.870,0.833,0.841,0.828,0.867,0.800,0.834,(6.7624)+(-0.0505)Asn+(0.0102)Gln+(-0.0985)His+(0.0266)Thr+(-0.1083)Met+(-0.1036)Trp;0.845,0.872,0.798,0.786,0.808,0.836,0.780,0.802,(1.8201)+(0.0342)Ser+(-0.0071)Ala+(-0.1320)Cit+(0.0447)Orn+(0.0998)Phe+(-0.1789)Trp;0.845,0.865,0.791,0.775,0.763,0.834,0.860,0.808,(7.4837)+(-0.0383)Asn+(-0.0618)His+(-0.0329)Val+(0.0063)Lys+(0.1388)Ile+(-0.1071)Trp;0.845,0.878,0.802,0.806,0.797,0.817,0.792,0.803,(1.4650)+(0.0464)Ser+(-0.1430)Asn+(0.0058)Orn+(-0.0018)Leu+(0.0913)Phe+(-0.1479)Trp;0.845,0.874,0.783,0.772,0.773,0.808,0.811,0.791,(0.9074)+(0.0479)Ser+(-0.1431)Asn+(-0.0007)Pro+(0.0429)Ile+(0.0693)Phe+(-0.1610)Trp;0.845,0.871,0.811,0.807,0.792,0.812,0.856,0.817,(4.2148)+(-0.0708)Asn+(0.0029)Lys+(0.1353)Ile+(-0.0737)Leu+(0.0725)Phe+(-0.1442)Trp;0.845,0.871,0.810,0.809,0.809,0.867,0.776,0.815,(4.5394)+(0.0305)Ser+(0.0066)Gln+(-0.1038)His+(-0.0994)Met+(0.0269)Orn+(-0.0949)Trp;0.845,0.870,0.782,0.768,0.783,0.842,0.771,0.791,(5.6728)+(0.0440)Ser+(-0.0709)Asn+(-0.0904)His+(0.0104)Pro+(0.0087)Lys+(-0.1062)Trp;0.845,0.866,0.785,0.770,0.756,0.838,0.848,0.803,(7.2255)+(-0.0344)Asn+(0.0034)Gly+(-0.0632)His+(-0.0

313)Val+(0.1409)Ile+(-0.1031)Trp;0.845,0.872,0.814,0.807,0.821,0.835,0.805,0.817,(5.2306)+(0.0065)Gly+(-0.1044)His+(0.0019)Val+(-0.1519)Met+(0.1377)Phe+(-0.1034)Trp;0.845,0.871,0.803,0.810,0.775,0.805,0.840,0.807,(4.2342)+(-0.0532)Asn+(-0.0387)Tyr+(0.1428)Ile+(-0.0758)Leu+(0.0940)Phe+(-0.1305)Trp;0.845,0.879,0.785,0.772,0.798,0.810,0.776,0.789,(5.8093)+(-0.1077)His+(0.0323)Thr+(-0.0642)Cit+(-0.0356)Tyr+(0.1378)Phe+(-0.1350)Trp;0.845,0.873,0.781,0.744,0.801,0.834,0.799,0.794,(7.1130)+(-0.0910)His+(0.0163)Thr+(-0.0738)Cit+(0.0363)Orn+(0.0605)Ile+(-0.1395)Trp;0.845,0.871,0.808,0.792,0.797,0.838,0.850,0.819,(7.0847)+(-0.0662)His+(-0.1359)Met+(0.0134)Lys+(0.1333)Ile+(-0.0482)Leu+(-0.1099)Trp;0.845,0.870,0.816,0.801,0.797,0.861,0.867,0.831,(7.8406)+(-0.0437)His+(-0.0066)Ala+(-0.0553)Cit+(0.1464)Ile+(-0.0461)Leu+(-0.1159)Trp;0.845,0.874,0.780,0.764,0.779,0.831,0.787,0.790,(1.7735)+(0.0465)Ser+(0.0045)Pro+(-0.2429)Met+(-0.0025)Lys+(0.0744)Ile+(-0.1444)Trp;0.845,0.874,0.804,0.786,0.781,0.846,0.869,0.821,(7.6329)+(-0.0460)His+(-0.0004)Arg+(-0.0358)Val+(-0.1365)Met+(0.1623)Ile+(-0.0945)Trp;0.845,0.872,0.811,0.801,0.779,0.850,0.873,0.826,(6.8699)+(-0.0117)Asn+(-0.0399)Val+(-0.1692)Met+(0.1819)Ile+(-0.0111)Leu+(-0.1046)Trp;0.845,0.876,0.790,0.766,0.801,0.835,0.795,0.799,(1.3194)+(0.0514)Ser+(-0.0128)Arg+(0.0347)Tyr+(-0.2773)Met+(0.

0798)Ile+(-0.1543)Trp;0.845,0.874,0.810,0.802,0.778,0.848,0.870,0.825,(6.5783)+(-0.0094)Arg+(-0.0473)Val+(-0.2114)Met+(0.0135)Lys+(0.1794)Ile+(-0.1132)Trp;0.845,0.876,0.813,0.811,0.813,0.814,0.818,0.814,(2.0481)+(0.0573)Ser+(-0.1218)Asn+(-0.0065)Gly+(-0.0156)Arg+(0.0943)Phe+(-0.1493)Trp;0.845,0.867,0.825,0.826,0.803,0.851,0.849,0.832,(4.3962)+(-0.0328)Asn+(0.0069)Gln+(-0.1680)Met+(0.1504)Ile+(-0.0619)Leu+(-0.1301)Trp;0.845,0.876,0.805,0.786,0.790,0.832,0.869,0.819,(6.1298)+(-0.1021)His+(-0.0055)Ala+(-0.0125)Tyr+(0.0587)Ile+(0.0881)Phe+(-0.1224)Tr

p;0.845,0.873,0.794,0.807,0.782,0.804,0.781,0.793,(1.4568)+(0.0474)Se
r+(-0.1352)Asn+(-0.0332)Tyr+(0.0078)Orn+(0.1061)Phe+(-0.1393)Trp;0.84
5,0.867,0.784,0.761,0.780,0.825,0.822,0.797,(6.5893)+(0.0028)Gly+(-0.
0895)His+(0.0197)Orn+(0.1087)Ile+(-0.0344)Leu+(-0.1142)Trp;0.845,0.86
7,0.807,0.793,0.785,0.846,0.864,0.822,(7.4979)+(0.0030)Asn+(-0.0669)H
is+(-0.0058)Ala+(0.1335)Ile+(-0.0420)Leu+(-0.1111)Trp;0.845,0.874,0.7
82,0.772,0.746,0.804,0.871,0.798,(3.2764)+(0.0008)Gln+(-0.0428)Val+(-
0.0083)Lys+(0.1443)Ile+(0.0737)Phe+(-0.1530)Trp;0.845,0.874,0.786,0.7
51,0.807,0.854,0.788,0.800,(4.2207)+(0.0525)Ser+(-0.1080)His+(0.0399)
Tyr+(-0.1849)Met+(0.0368)Leu+(-0.1165)Trp;0.845,0.878,0.797,0.789,0.8
22,0.791,0.773,0.794,(2.8773)+(0.0413)Thr+(-0.0213)Arg+(-0.3532)Met+(
0.0496)Ile+(0.1131)Phe+(-0.1669)Trp;0.845,0.874,0.772,0.740,0.767,0.8
59,0.809,0.793,(1.1330)+(0.0445)Ser+(-0.0301)Asn+(0.0072)Gln+(-0.1385
)His+(-0.2138)Met+(0.0790)Ile;0.845,0.873,0.780,0.769,0.745,0.803,0.8
67,0.796,(3.4236)+(0.0006)Gly+(-0.0433)Val+(-0.0078)Lys+(0.1454)Ile+(
0.0749)Phe+(-0.1520)Trp;0.845,0.877,0.815,0.824,0.835,0.795,0.764,0.8
04,(3.0921)+(0.0405)Thr+(-0.0048)Tyr+(-0.0100)Val+(-0.3417)Met+(0.149
0)Phe+(-0.1499)Trp;0.845,0.874,0.807,0.811,0.767,0.829,0.863,0.817,(3
.7557)+(-0.0083)Ala+(-0.0290)Tyr+(0.1632)Ile+(-0.0794)Leu+(0.0886)Phe
+(-0.1357)Trp;0.845,0.874,0.780,0.753,0.783,0.815,0.820,0.793,(5.1623
)+(0.0054)Gly+(-0.1145)His+(-0.0090)Arg+(0.0508)Ile+(0.0835)Phe+(-0.1
267)Trp;0.845,0.870,0.789,0.775,0.762,0.854,0.836,0.807,(3.0711)+(0.0
435)Ser+(-0.1000)Asn+(-0.0085)Ala+(0.0065)Pro+(0.0678)Ile+(-0.1448)Tr
p;0.845,0.866,0.796,0.790,0.748,0.844,0.879,0.815,(5.2175)+(0.0010)Gl
n+(-0.0085)Ala+(-0.0417)Val+(0.0151)Orn+(0.1644)Ile+(-0.1311)Trp;0.84
5,0.868,0.774,0.745,0.748,0.866,0.836,0.799,(2.0076)+(0.0422)Ser+(-0.
0924)Asn+(0.0068)Gln+(-0.1421)His+(-0.0063)Ala+(0.0698)Ile;0.845,0.87
4,0.780,0.763,0.780,0.829,0.790,0.790,(1.7040)+(0.0462)Ser+(0.0047)Pr

o+(-0.2500)Met+(-0.0009)Orn+(0.0733)Ile+(-0.1463)Trp;0.845,0.869,0.779,0.755,0.762,0.827,0.843,0.797,(6.8233)+(-0.0772)His+(-0.0010)Pro+(-0.0304)Val+(0.0257)Orn+(0.1328)Ile+(-0.1092)Trp;0.845,0.877,0.811,0.807,0.804,0.815,0.830,0.814,(1.9140)+(0.0560)Ser+(-0.1371)Asn+(-0.0067)Gly+(-0.0015)Leu+(0.0905)Phe+(-0.1493)Trp;0.845,0.870,0.774,0.764,0.739,0.799,0.852,0.788,(2.9730)+(0.0031)Thr+(-0.0368)Val+(0.1599)Ile+(-0.0256)Leu+(0.0685)Phe+(-0.1553)Trp;0.845,0.869,0.790,0.783,0.741,0.844,0.872,0.810,(5.3581)+(0.0077)Thr+(-0.0088)Ala+(-0.0422)Val+(0.0119)Orn+(0.1664)Ile+(-0.1348)Trp;0.845,0.868,0.800,0.784,0.786,0.835,0.844,0.812,(4.9202)+(0.0079)Gln+(-0.1064)His+(-0.0007)Tyr+(0.1040)Ile+(-0.0286)Leu+(-0.1200)Trp;0.845,0.876,0.763,0.729,0.759,0.864,0.789,0.785,(2.6428)+(0.0491)Ser+(-0.0974)His+(-0.0425)Cit+(-0.2121)Met+(0.1414)Ile+(-0.0413)Leu;0.845,0.875,0.781,0.779,0.742,0.794,0.857,0.793,(3.6050)+(-0.0326)Tyr+(-0.0428)Val+(-0.0050)Lys+(0.1452)Ile+(0.0907)Phe+(-0.1437)Trp;0.845,0.872,0.789,0.752,0.807,0.823,0.822,0.801,(5.7927)+(-0.0918)His+(-0.0843)Cit+(0.0374)Orn+(0.0455)Ile+(0.0818)Phe+(-0.1460)Trp;0.845,0.873,0.773,0.758,0.740,0.840,0.836,0.793,(3.6677)+(0.0452)Ser+(-0.0074)Gly+(-0.0298)Arg+(-0.0425)Val+(0.1627)Ile+(-0.1369)Trp;0.845,0.869,0.792,0.780,0.750,0.839,0.877,0.811,(1.5432)+(-0.0572)Val+(-0.3822)Met+(0.0109)Orn+(0.2172)Ile+(-0.0252)Leu+(0.1175)Phe;0.845,0.867,0.791,0.773,0.769,0.835,0.855,0.808,(5.1978)+(0.0066)Gln+(-0.0962)His+(0.0030)Tyr+(-0.0234)Val+(0.1200)Ile+(-0.1164)Trp;0.845,0.867,0.762,0.735,0.728,0.865,0.830,0.789,(3.2158)+(0.0456)Ser+(-0.0683)Asn+(-0.1083)His+(-0.0073)Ala+(0.1289)Ile+(-0.0391)Leu;0.845,0.866,0.797,0.777,0.790,0.833,0.836,0.809,(4.8799)+(0.0014)Gly+(0.0086)Gln+(-0.1217)His+(-0.0020)Lys+(0.0665)Ile+(-0.1228)Trp;0.845,0.874,0.784,0.770,0.781,0.831,0.792,0.793,(1.3581)+(0.0442)Ser+(0.0014)Gln+(0.0044)Pro+(-0.2563)Met+(0.0726)Ile+(-0.1479)Trp;0.845,0.874,0.814,0.806,0

.827,0.842,0.788,0.816,(5.2855)+(0.0084)Gly+(-0.0915)His+(-0.0578)Cit+(-0.1343)Met+(0.1513)Phe+(-0.1116)Trp;0.845,0.877,0.815,0.797,0.792,0.855,0.883,0.832,(6.4893)+(-0.0033)Arg+(0.0326)Tyr+(-0.0458)Val+(-0.2261)Met+(0.1800)Ile+(-0.1130)Trp;0.845,0.870,0.816,0.819,0.840,0.795,0.776,0.807,(3.6410)+(-0.0400)Asn+(-0.0006)Gly+(0.0388)Thr+(-0.3081)Met+(0.1276)Phe+(-0.1573)Trp;0.845,0.869,0.819,0.822,0.817,0.859,0.786,0.821,(6.2329)+(0.0083)Gln+(-0.1066)His+(0.0226)Thr+(-0.1395)Met+(0.0212)Orn+(-0.1028)Trp;0.845,0.870,0.787,0.778,0.792,0.851,0.757,0.794,(5.6673)+(0.0458)Ser+(-0.0816)His+(-0.0077)Arg+(0.0146)Pro+(-0.1155)Met+(-0.0954)Trp;0.845,0.871,0.809,0.796,0.802,0.854,0.825,0.819,(6.8846)+(-0.0544)Asn+(0.0149)Thr+(-0.0753)Cit+(0.1335)Ile+(-0.0528)Leu+(-0.1481)Trp;0.845,0.870,0.804,0.798,0.765,0.854,0.862,0.820,(5.8706)+(-0.1364)Asn+(0.0042)Gln+(0.0179)Thr+(-0.0440)Val+(0.1536)Ile+(-0.1216)Trp;0.845,0.872,0.803,0.797,0.792,0.838,0.818,0.811,(5.7282)+(-0.0005)Gly+(0.0211)Thr+(-0.2180)Met+(0.1450)Ile+(-0.0563)Leu+(-0.1344)Trp;0.845,0.868,0.793,0.783,0.795,0.854,0.769,0.800,(4.4246)+(0.0333)Ser+(0.0064)Gln+(-0.1004)His+(-0.0476)Cit+(0.0104)Pro+(-0.1138)Trp;0.845,0.870,0.765,0.726,0.789,0.815,0.780,0.777,(3.4295)+(-0.1429)His+(0.0457)Thr+(-0.0438)Cit+(-0.3691)Met+(0.0530)Ile+(0.1229)Phe;0.845,0.869,0.787,0.765,0.796,0.845,0.786,0.798,(3.6829)+(0.0359)Ser+(0.0070)Gln+(-0.1207)His+(-0.0490)Cit+(0.0328)Leu+(-0.1266)Trp;0.845,0.878,0.797,0.785,0.817,0.787,0.791,0.795,(2.3119)+(0.0342)Thr+(0.0011)Pro+(-0.3661)Met+(0.0490)Ile+(0.1064)Phe+(-0.1655)Trp;0.845,0.875,0.775,0.748,0.740,0.882,0.841,0.803,(0.4174)+(0.0435)Ser+(0.0352)Tyr+(-0.0605)Val+(-0.4117)Met+(0.0104)Orn+(0.2097)Ile;0.845,0.871,0.802,0.797,0.790,0.837,0.817,0.810,(5.4841)+(0.0190)Thr+(-0.2270)Met+(0.0050)Lys+(0.1476)Ile+(-0.0595)Leu+(-0.1368)Trp;0.845,0.869,0.831,0.832,0.831,0.867,0.804,0.833,(6.1303)+(0.0096)Gln+(-0.1089)His+(0.0247)Thr+(0.0306)Tyr

+(-0.1809)Met+(-0.1120)Trp;0.845,0.874,0.790,0.758,0.795,0.817,0.846,0.804,(5.8068)+(-0.1139)His+(-0.0020)Pro+(0.0146)Orn+(0.0481)Ile+(0.0721)Phe+(-0.1281)Trp;0.845,0.874,0.782,0.772,0.772,0.806,0.813,0.791,(0.8791)+(0.0483)Ser+(-0.1409)Asn+(-0.0059)Orn+(0.0441)Ile+(0.0716)Phe+(-0.1622)Trp;0.845,0.871,0.795,0.778,0.792,0.825,0.823,0.805,(3.7558)+(-0.1145)Cit+(0.0277)Orn+(0.1385)Ile+(-0.0701)Leu+(0.0812)Phe+(-0.1649)Trp;0.845,0.871,0.803,0.787,0.825,0.832,0.779,0.806,(6.2253)+(0.0283)Thr+(-0.0756)Cit+(0.0028)Pro+(-0.2172)Met+(0.0685)Ile+(-0.1579)Trp;0.845,0.871,0.781,0.766,0.780,0.834,0.785,0.791,(1.8000)+(0.0457)Ser+(-0.2277)Met+(0.0027)Orn+(-0.0033)Lys+(0.0791)Ile+(-0.1439)Trp;0.845,0.874,0.778,0.777,0.761,0.803,0.796,0.784,(0.9484)+(0.0483)Ser+(-0.1333)Asn+(-0.0343)Tyr+(0.0429)Ile+(0.0872)Phe+(-0.1514)Trp;0.845,0.868,0.787,0.776,0.744,0.872,0.844,0.809,(5.1321)+(-0.0648)Asn+(0.0008)Gly+(0.0336)Thr+(-0.0619)Val+(-0.3312)Met+(0.2098)Ile;0.845,0.867,0.771,0.740,0.778,0.819,0.803,0.785,(6.6933)+(0.0019)Gly+(-0.1136)His+(0.0148)Thr+(0.0150)Orn+(0.0621)Ile+(-0.1269)Trp;0.844,0.879,0.793,0.772,0.815,0.822,0.784,0.798,(6.1962)+(-0.1094)His+(0.0309)Thr+(-0.0559)Cit+(-0.0136)Arg+(0.1203)Phe+(-0.1419)Trp;0.844,0.874,0.779,0.757,0.774,0.809,0.824,0.791,(5.0960)+(0.0045)Gly+(-0.1142)His+(-0.0197)Tyr+(0.0518)Ile+(0.0900)Phe+(-0.1221)Trp;0.844,0.880,0.812,0.820,0.828,0.786,0.777,0.803,(1.3537)+(0.0041)Gln+(0.0332)Thr+(0.0052)Pro+(-0.3741)Met+(0.1266)Phe+(-0.1625)Trp;0.844,0.871,0.829,0.832,0.824,0.881,0.796,0.833,(5.1413)+(0.0354)Ser+(-0.0774)Asn+(0.0092)Gln+(-0.0861)His+(-0.0415)Cit+(-0.0979)Trp;0.844,0.868,0.803,0.785,0.780,0.850,0.863,0.819,(3.8072)+(-0.0906)His+(-0.0051)Ala+(-0.2209)Met+(0.1486)Ile+(-0.0689)Leu+(0.1188)Phe;0.844,0.867,0.782,0.766,0.787,0.834,0.778,0.791,(3.7563)+(0.0325)Ser+(0.0063)Gln+(-0.1287)His+(0.0056)Pro+(0.0105)Val+(-0.1160)Trp;0.844,0.867,0.810,0.792,0.804,0.858,0.837,0.823,(6.9394)+

(0.0214)Thr+(-0.0088)Ala+(-0.0911)Cit+(-0.0121)Lys+(0.0884)Ile+(-0.1634)Trp;0.844,0.871,0.785,0.766,0.809,0.809,0.770,0.788,(1.5977)+(0.0392)Ser+(-0.0038)Gly+(-0.1281)Cit+(0.0371)Orn+(0.0863)Phe+(-0.1935)Trp;0.844,0.868,0.808,0.802,0.757,0.861,0.891,0.828,(6.9005)+(-0.0614)Asn+(-0.0066)Ala+(-0.0433)Val+(0.0050)Lys+(0.1690)Ile+(-0.1146)Trp;0.844,0.874,0.775,0.749,0.737,0.885,0.843,0.803,(0.4523)+(0.0448)Ser+(0.0371)Tyr+(-0.0573)Val+(-0.4070)Met+(0.2191)Ile+(-0.0093)Leu;0.844,0.872,0.779,0.765,0.782,0.827,0.776,0.787,(1.9571)+(0.0480)Ser+(-0.0111)Arg+(0.0051)Pro+(-0.2350)Met+(0.0730)Ile+(-0.1446)Trp;0.844,0.869,0.777,0.767,0.742,0.797,0.859,0.791,(3.1879)+(0.0002)Gly+(-0.0002)Gln+(-0.0442)Val+(0.1424)Ile+(0.0688)Phe+(-0.1576)Trp;0.844,0.871,0.786,0.775,0.754,0.875,0.818,0.806,(4.9057)+(0.0378)Thr+(-0.0443)Cit+(-0.0114)Arg+(-0.0592)Val+(-0.3729)Met+(0.2088)Ile;0.844,0.871,0.773,0.746,0.801,0.826,0.748,0.780,(3.2254)+(0.0352)Ser+(-0.1111)Cit+(-0.0137)Arg+(0.0337)Orn+(0.0610)Ile+(-0.1872)Trp;0.844,0.875,0.804,0.806,0.831,0.794,0.747,0.795,(3.3860)+(0.0427)Thr+(-0.0218)Arg+(0.0059)Pro+(-0.3470)Met+(0.1327)Phe+(-0.1620)Trp;0.844,0.874,0.794,0.789,0.759,0.813,0.864,0.806,(3.2073)+(0.0028)Gln+(-0.0287)Arg+(-0.0461)Val+(0.1496)Ile+(0.0779)Phe+(-0.1518)Trp;0.844,0.874,0.778,0.763,0.732,0.882,0.840,0.804,(2.2656)+(0.0467)Ser+(-0.0839)Asn+(-0.0542)Val+(-0.2569)Met+(0.2020)Ile+(-0.0030)Leu;0.844,0.873,0.780,0.768,0.745,0.806,0.867,0.797,(3.5038)+(-0.0435)Val+(0.0060)Orn+(-0.0083)Lys+(0.1448)Ile+(0.0717)Phe+(-0.1504)Trp;0.844,0.871,0.770,0.742,0.782,0.839,0.770,0.783,(5.5066)+(0.0426)Ser+(-0.0648)Asn+(-0.1116)His+(0.0147)Thr+(0.0302)Leu+(-0.1149)Trp;0.844,0.868,0.792,0.784,0.743,0.842,0.879,0.812,(5.5593)+(-0.0094)Ala+(0.0052)Pro+(-0.0423)Val+(0.0142)Orn+(0.1625)Ile+(-0.1286)Trp;0.844,0.867,0.772,0.761,0.740,0.794,0.854,0.787,(3.0093)+(0.0045)Thr+(-0.0444)Val+(-0.0012)Orn+(0.1418)Ile+(0.0673)Phe+(-0.1610)Trp;0.844

,0.874,0.816,0.809,0.820,0.83
7,0.808,0.819,(5.1562)+(0.0063)Gly+(-0.1030)His+(0.0023)Arg+(-0.1547)
Met+(0.1404)Phe+(-0.1018)Trp;0.844,0.871,0.823,0.827,0.839,0.812,0.78
9,0.817,(3.7435)+(-0.0411)Asn+(0.0394)Thr+(-0.0033)Ala+(-0.2898)Met+(
0.1316)Phe+(-0.1547)Trp;0.844,0.880,0.826,0.820,0.819,0.840,0.843,0.8
31,(3.1541)+(0.0107)Gln+(-0.1200)His+(-0.0603)Cit+(-0.0181)Tyr+(0.125
6)Phe+(-0.1230)Trp;0.844,0.866,0.721,0.681,0.707,0.818,0.786,0.748,(0
.3215)+(0.0475)Ser+(-0.1491)His+(-0.0163)Lys+(0.1005)Ile+(-0.0417)Leu
+(0.0936)Phe;0.844,0.874,0.754,0.718,0.749,0.853,0.789,0.777,(2.3339)
+(0.0473)Ser+(-0.1133)His+(-0.2234)Met+(0.0145)Orn+(0.1321)Ile+(-0.03
81)Leu;0.844,0.880,0.765,0.745,0.736,0.828,0.835,0.786,(-4.4011)+(0.0
572)Ser+(-0.0064)Gly+(-0.4095)Met+(0.1853)Ile+(-0.0973)Leu+(0.1246)Ph
e;0.844,0.867,0.786,0.765,0.785,0.844,0.801,0.799,(3.7620)+(0.0341)Se
r+(0.0063)Gln+(-0.1303)His+(-0.0027)Ala+(0.0328)Leu+(-0.1159)Trp;0.84
4,0.869,0.810,0.801,0.761,0.860,0.898,0.830,(6.8725)+(-0.0537)Asn+(-0
.0069)Ala+(0.0098)Tyr+(-0.0429)Val+(0.1707)Ile+(-0.1156)Trp;0.844,0.8
65,0.796,0.777,0.790,0.830,0.834,0.808,(4.8361)+(0.0015)Gly+(0.0084)G
ln+(-0.1229)His+(-0.0007)Pro+(0.0662)Ile+(-0.1238)Trp;0.844,0.865,0.7
92,0.787,0.740,0.845,0.875,0.812,(5.2405)+(0.0007)Gln+(0.0091)Thr+(-0
.0087)Ala+(-0.0411)Val+(0.1671)Ile+(-0.1368)Trp;0.844,0.873,0.779,0.7
60,0.745,0.880,0.829,0.803,(1.5965)+(0.0416)Ser+(-0.0481)Cit+(-0.0512
)Val+(-0.3286)Met+(0.0017)Lys+(0.1945)Ile;0.844,0.867,0.774,0.762,0.7
42,0.795,0.859,0.789,(3.1188)+(-0.0007)Gly+(0.0049)Thr+(-0.0445)Val+(
0.1416)Ile+(0.0659)Phe+(-0.1602)Trp;0.844,0.869,0.796,0.777,0.772,0.8
42,0.864,0.814,(7.7912)+(-0.0216)Asn+(-0.0471)His+(-0.0415)Cit+(-0.03
15)Val+(0.1443)Ile+(-0.1122)Trp;0.844,0.868,0.772,0.747,0.778,0.828,0
.787,0.785,(3.5576)+(0.0343)Ser+(0.0058)Gln+(-0.1332)His+(0.0046)Pro+
(0.0279)Leu+(-0.1208)Trp;0.844,0.867,0.793,0.789,0.782,0.849,0.784,0.

801,(4.4889)+(0.0314)Ser+(0.0059)Gln+(-0.1090)His+(-0.0039)Ala+(0.012
2)Pro+(-0.1032)Trp;0.844,0.866,0.762,0.744,0.707,0.848,0.865,0.791,(0
.2792)+(0.0587)Ser+(-0.2371)Asn+(-0.0038)Gly+(-0.0632)Val+(0.1701)Ile
+(0.0910)Phe;0.844,0.875,0.764,0.729,0.761,0.854,0.800,0.786,(0.9006)
+(0.0444)Ser+(0.0064)Gln+(-0.1405)His+(0.0043)Pro+(-0.2495)Met+(0.076
4)Ile;0.844,0.869,0.779,0.761,0.760,0.846,0.814,0.796,(0.0866)+(0.050
3)Ser+(-0.1296)Asn+(0.0077)Gln+(-0.1594)His+(-0.0039)Ala+(0.1154)Phe;
0.844,0.867,0.765,0.735,0.767,0.841,0.789,0.783,(4.7472)+(0.0427)Ser+
(-0.1118)His+(-0.0050)Ala+(0.0100)Pro+(0.0298)Leu+(-0.1150)Trp;0.844,
0.868,0.776,0.765,0.742,0.797,0.860,0.791,(3.2327)+(-0.0003)Gln+(-0.0
444)Val+(0.0024)Orn+(0.1422)Ile+(0.0675)Phe+(-0.1569)Trp;0.844,0.866,
0.793,0.787,0.742,0.842,0.878,0.812,(5.6967)+(-0.0016)Gly+(0.0112)Thr
+(-0.0086)Ala+(-0.0417)Val+(0.1686)Ile+(-0.1357)Trp;0.844,0.873,0.791
,0.773,0.797,0.818,0.805,0.798,(5.2674)+(0.0040)Gly+(-0.1165)His+(-0.
0005)Val+(0.0203)Orn+(0.0991)Phe+(-0.1142)Trp;0.844,0.876,0.819,0.808
,0.828,0.846,0.809,0.823,(5.0918)+(0.0071)Gly+(-0.1043)His+(0.0190)Ty
r+(-0.1787)Met+(0.1374)Phe+(-0.1062)Trp;0.844,0.875,0.820,0.815,0.807
,0.824,0.854,0.825,(3.7348)+(-0.0091)Arg+(-0.2244)Met+(0.1596)Ile+(-0
.0788)Leu+(0.1121)Phe+(-0.1268)Trp;0.844,0.873,0.781,0.752,0.789,0.83
3,0.800,0.794,(3.5802)+(0.0440)Ser+(-0.0036)Gly+(-0.0855)Cit+(-0.0142
)Lys+(0.0793)Ile+(-0.1713)Trp;0.844,0.870,0.792,0.781,0.749,0.834,0.8
79,0.811,(1.6386)+(0.0023)Pro+(-0.0565)Val+(-0.3864)Met+(0.2163)Ile+(
-0.0255)Leu+(0.1216)Phe;0.844,0.873,0.787,0.774,0.782,0.836,0.793,0.7
96,(1.4020)+(0.0437)Ser+(0.0019)Gln+(-0.2349)Met+(-0.0036)Lys+(0.0793
)Ile+(-0.1456)Trp;0.844,0.870,0.802,0.792,0.802,0.823,0.810,0.807,(5.
6037)+(-0.0229)Asn+(0.0052)Gly+(-0.1083)His+(0.0005)Val+(0.1092)Phe+(
-0.1124)Trp;0.844,0.870,0.808,0.793,0.829,0.839,0.785,0.811,(6.6249)+
(-0.0224)Asn+(0.0296)Thr+(-0.0741)Cit+(-0.1937)Met+(0.0693)Ile+(-0.15

55)Trp;0.844,0.868,0.778,0.756,0.760,0.826,0.842,0.796,(6.8442)+(-0.0764)His+(-0.0042)Tyr+(-0.0304)Val+(0.0260)Orn+(0.1320)Ile+(-0.1080)Trp;0.844,0.870,0.792,0.777,0.752,0.838,0.881,0.812,(1.5972)+(0.0024)Pro+(-0.0648)Val+(-0.3963)Met+(0.0116)Orn+(0.1971)Ile+(0.1150)Phe;0.844,0.866,0.796,0.788,0.750,0.845,0.874,0.814,(5.5980)+(-0.0083)Ala+(-0.0358)Val+(0.0157)Orn+(0.1798)Ile+(-0.0204)Leu+(-0.1266)Trp;0.844,0.867,0.814,0.805,0.813,0.841,0.822,0.820,(6.0118)+(-0.0697)Asn+(0.0100)Gln+(-0.1242)His+(0.0197)Thr+(0.0240)Leu+(-0.1194)Trp;0.844,0.867,0.793,0.770,0.788,0.828,0.837,0.806,(7.1308)+(-0.0112)Asn+(-0.0815)His+(0.0222)Orn+(0.1095)Ile+(-0.0371)Leu+(-0.1133)Trp;0.844,0.874,0.806,0.795,0.818,0.875,0.760,0.812,(6.2421)+(0.0368)Ser+(-0.0930)His+(0.0197)Thr+(0.0384)Tyr+(-0.1720)Met+(-0.1114)Trp;0.844,0.870,0.784,0.755,0.791,0.835,0.809,0.797,(7.3861)+(-0.0891)His+(0.0212)Thr+(-0.0505)Cit+(-0.0077)Tyr+(0.0692)Ile+(-0.1342)Trp;0.844,0.870,0.767,0.746,0.729,0.869,0.829,0.793,(1.2344)+(0.0426)Ser+(-0.0007)Gln+(0.0053)Pro+(-0.0541)Val+(-0.3506)Met+(0.1928)Ile;0.844,0.867,0.793,0.781,0.764,0.845,0.843,0.808,(4.8565)+(0.0023)Gly+(0.0030)Gln+(-0.0765)Cit+(-0.0342)Val+(0.1449)Ile+(-0.1525)Trp;0.844,0.868,0.779,0.758,0.760,0.839,0.832,0.797,(6.8341)+(0.0049)Gly+(-0.0583)His+(-0.0521)Cit+(-0.0279)Val+(0.1407)Ile+(-0.1188)Trp;0.844,0.866,0.793,0.772,0.790,0.828,0.832,0.805,(4.8678)+(0.0014)Gly+(0.0080)Gln+(-0.1244)His+(0.0088)Orn+(0.0627)Ile+(-0.1240)Trp;0.844,0.867,0.824,0.832,0.821,0.860,0.786,0.825,(6.3408)+(0.0091)Gln+(-0.1040)His+(0.0254)Thr+(0.0006)Ala+(-0.1432)Met+(-0.1031)Trp;0.844,0.868,0.785,0.755,0.793,0.835,0.812,0.798,(7.3467)+(-0.0906)His+(0.0207)Thr+(-0.0508)Cit+(-0.0010)Pro+(0.0692)Ile+(-0.1368)Trp;0.844,0.869,0.789,0.776,0.747,0.874,0.850,0.812,(5.0864)+(-0.0614)Asn+(0.0337)Thr+(0.0068)Tyr+(-0.0626)Val+(-0.3436)Met+(0.2109)Ile;0.844,0.868,0.787,0.773,0.747,0.870,0.844,0.809,(5.1716)+(-0.0738)Asn+(0.

0311)Thr+(-0.0632)Val+(-0.3220)Met+(0.0182)Orn+(0.2072)Ile;0.844,0.87
1,0.817,0.819,0.840,0.795,0.776,0.808,(3.5890)+(-0.0397)Asn+(0.0402)T
hr+(-0.3123)Met+(-0.0075)Orn+(0.1329)Phe+(-0.1583)Trp;0.844,0.871,0.7
78,0.770,0.742,0.799,0.857,0.792,(3.0510)+(0.0001)Gln+(-0.0361)Val+(0
.1611)Ile+(-0.0271)Leu+(0.0696)Phe+(-0.1532)Trp;0.844,0.871,0.816,0.8
20,0.839,0.796,0.771,0.806,(3.5631)+(-0.0411)Asn+(0.0384)Thr+(-0.3077
)Met+(-0.0006)Leu+(0.1286)Phe+(-0.1565)Trp;0.844,0.872,0.782,0.761,0.
735,0.875,0.868,0.810,(1.0728)+(0.0498)Ser+(-0.0068)Gly+(0.0006)Gln+(
-0.0536)Val+(-0.3366)Met+(0.1981)Ile;0.844,0.869,0.782,0.762,0.772,0.
827,0.822,0.796,(7.0225)+(-0.0907)His+(0.0156)Thr+(-0.0100)Tyr+(0.104
6)Ile+(-0.0284)Leu+(-0.1195)Trp;0.844,0.867,0.825,0.831,0.820,0.858,0
.792,0.825,(6.1455)+(0.0087)Gln+(-0.1061)His+(0.0240)Thr+(-0.1546)Met
+(0.0075)Lys+(-0.1065)Trp;0.844,0.867,0.793,0.785,0.743,0.842,0.886,0
.814,(5.8379)+(-0.0002)Gly+(-0.0093)Ala+(0.0065)Pro+(-0.0413)Val+(0.1
641)Ile+(-0.1272)Trp;0.844,0.865,0.773,0.745,0.774,0.822,0.809,0.788,
(6.9352)+(0.0019)Gly+(-0.1082)His+(0.0175)Thr+(-0.0025)Lys+(0.0670)Il
e+(-0.1261)Trp;0.844,0.876,0.819,0.815,0.806,0.820,0.857,0.824,(3.418
9)+(-0.0019)Tyr+(-0.2379)Met+(0.1577)Ile+(-0.0776)Leu+(0.1113)Phe+(-0
.1275)Trp;0.844,0.868,0.836,0.838,0.836,0.868,0.810,0.838,(6.9634)+(-
0.0775)Asn+(0.0104)Gln+(-0.0920)His+(0.0223)Thr+(-0.0444)Cit+(-0.1096
)Trp;0.844,0.867,0.797,0.781,0.807,0.853,0.775,0.804,(3.8590)+(0.0346
)Ser+(0.0074)Gln+(-0.1183)His+(-0.0510)Cit+(0.0146)Val+(-0.1218)Trp;0
.844,0.874,0.755,0.719,0.748,0.853,0.791,0.778,(2.2905)+(0.0493)Ser+(
-0.1093)His+(0.0036)Pro+(-0.2295)Met+(0.1295)Ile+(-0.0365)Leu;0.844,0
.870,0.793,0.781,0.750,0.837,0.882,0.813,(1.3183)+(-0.0665)Val+(-0.40
84)Met+(0.0090)Orn+(0.0057)Lys+(0.2012)Ile+(0.1165)Phe;0.844,0.866,0.
829,0.831,0.793,0.866,0.876,0.841,(4.9773)+(-0.0630)Asn+(0.0057)Gln+(
-0.0075)Ala+(0.1561)Ile+(-0.0656)Leu+(-0.1327)Trp;0.844,0.874,0.807,0

.792,0.805,0.828,0.837,0.816,(6.0891)+(-0.1056)His+(-0.0052)Ala+(0.0071)Pro+(0.0209)Orn+(0.0956)Phe+(-0.1145)Trp;0.844,0.874,0.780,0.766,0.732,0.880,0.844,0.805,(2.2108)+(0.0458)Ser+(-0.0912)Asn+(-0.0570)Val+(-0.2729)Met+(0.0059)Lys+(0.2019)Ile;0.844,0.867,0.795,0.790,0.743,0.843,0.886,0.815,(5.2331)+(0.0015)Gln+(-0.0095)Ala+(0.0060)Pro+(-0.0406)Val+(0.1617)Ile+(-0.1314)Trp;0.844,0.867,0.765,0.739,0.779,0.831,0.758,0.777,(4.8876)+(0.0378)Ser+(-0.1126)His+(0.0063)Pro+(0.0076)Val+(0.0183)Orn+(-0.1126)Trp;0.844,0.867,0.792,0.778,0.792,0.842,0.792,0.801,(6.0297)+(0.0515)Ser+(-0.0571)Asn+(-0.0052)Gly+(-0.0823)His+(0.0110)Pro+(-0.1023)Trp;0.844,0.871,0.792,0.783,0.749,0.842,0.867,0.810,(1.2699)+(0.0040)Gly+(-0.0064)Arg+(-0.0641)Val+(-0.3921)Met+(0.2015)Ile+(0.1237)Phe;0.844,0.871,0.816,0.819,0.839,0.795,0.773,0.806,(3.5509)+(-0.0409)Asn+(0.0384)Thr+(-0.3082)Met+(0.0000)Lys+(0.1280)Phe+(-0.1568)Trp;0.844,0.871,0.805,0.789,0.825,0.842,0.777,0.808,(6.4541)+(0.0298)Thr+(-0.0761)Cit+(-0.1996)Met+(-0.0047)Lys+(0.0735)Ile+(-0.1554)Trp;0.844,0.868,0.800,0.786,0.785,0.835,0.844,0.813,(4.9328)+(0.0080)Gln+(-0.1061)His+(-0.0016)Pro+(0.1068)Ile+(-0.0292)Leu+(-0.1197)Trp;0.844,0.871,0.802,0.795,0.792,0.837,0.816,0.810,(5.6359)+(0.0203)Thr+(-0.2181)Met+(0.0017)Orn+(0.1450)Ile+(-0.0565)Leu+(-0.1341)Trp;0.843,0.877,0.769,0.758,0.743,0.833,0.806,0.785,(-3.8234)+(0.0538)Ser+(-0.0684)Asn+(-0.3572)Met+(0.1776)Ile+(-0.0944)Leu+(0.1296)Phe;0.843,0.874,0.822,0.828,0.839,0.792,0.791,0.813,(1.6635)+(-0.0021)Gly+(0.0044)Gln+(0.0355)Thr+(-0.3588)Met+(0.1272)Phe+(-0.1643)Trp;0.843,0.869,0.786,0.776,0.748,0.870,0.828,0.805,(5.5989)+(-0.0520)Asn+(0.0401)Thr+(-0.0180)Arg+(-0.0629)Val+(-0.3303)Met+(0.2131)Ile;0.843,0.871,0.812,0.801,0.804,0.825,0.847,0.819,(6.2087)+(-0.1011)His+(-0.0051)Ala+(0.0083)Pro+(0.0004)Val+(0.1044)Phe+(-0.1158)Trp;0.843,0.869,0.798,0.780,0.775,0.850,0.856,0.815,(3.2546)+(0.0511)Ser+(-0.0937)Asn+(-0.0056)Gly+(-0.

0067)Ala+(0.0719)Ile+(-0.1473)Trp;0.843,0.874,0.762,0.725,0.751,0.858,0.813,0.787,(2.4064)+(0.0534)Ser+(-0.0035)Gly+(-0.1067)His+(-0.2164)Met+(0.1361)Ile+(-0.0391)Leu;0.843,0.866,0.785,0.769,0.790,0.843,0.775,0.794,(5.8107)+(0.0448)Ser+(-0.0611)Asn+(-0.0881)His+(0.0098)Pro+(0.0125)Tyr+(-0.1042)Trp;0.843,0.870,0.772,0.749,0.791,0.828,0.753,0.780,(3.2536)+(0.0324)Ser+(-0.1163)Cit+(-0.0145)Tyr+(0.0338)Orn+(0.0602)Ile+(-0.1834)Trp;0.843,0.875,0.788,0.786,0.750,0.802,0.860,0.799,(4.0763)+(-0.0213)Arg+(-0.0285)Tyr+(-0.0460)Val+(0.1522)Ile+(0.0951)Phe+(-0.1387)Trp;0.843,0.867,0.786,0.761,0.788,0.836,0.809,0.799,(3.6929)+(0.0402)Ser+(-0.0049)Gly+(0.0

065)Gln+(-0.1312)His+(0.0292)Leu+(-0.1185)Trp;0.843,0.867,0.807,0.802,0.758,0.858,0.888,0.826,(6.9364)+(-0.0471)Asn+(-0.0066)Ala+(-0.0366)Val+(0.1816)Ile+(-0.0175)Leu+(-0.1119)Trp;0.843,0.872,0.779,0.764,0.735,0.880,0.836,0.804,(2.3754)+(0.0486)Ser+(-0.0800)Asn+(-0.0091)Arg+(-0.0546)Val+(-0.2453)Met+(0.1986)Ile;0.843,0.873,0.815,0.801,0.816,0.833,0.837,0.822,(6.3295)+(-0.0144)Asn+(-0.1040)His+(-0.0032)Ala+(0.0248)Orn+(0.0982)Phe+(-0.1110)Trp;0.843,0.872,0.817,0.822,0.840,0.809,0.761,0.808,(3.6418)+(0.0445)Thr+(-0.0033)Ala+(-0.0209)Arg+(-0.3135)Met+(0.1383)Phe+(-0.1595)Trp;0.843,0.870,0.785,0.766,0.762,0.846,0.839,0.803,(6.3350)+(0.0162)Thr+(-0.0730)Cit+(-0.0353)Val+(-0.0095)Lys+(0.1520)Ile+(-0.1469)Trp;0.843,0.873,0.783,0.775,0.751,0.805,0.857,0.797,(3.6903)+(0.0019)Gly+(-0.0253)Arg+(-0.0469)Val+(0.1527)Ile+(0.0820)Phe+(-0.1485)Trp;0.843,0.866,0.777,0.765,0.774,0.847,0.765,0.787,(5.6620)+(0.0362)Ser+(-0.0961)His+(0.0064)Thr+(-0.0039)Ala+(0.0124)Pro+(-0.1036)Trp;0.843,0.875,0.808,0.786,0.797,0.837,0.872,0.823,(6.2464)+(-0.1015)His+(-0.0060)Ala+(-0.0039)Arg+(0.0585)Ile+(0.0833)Phe+(-0.1253)Trp;0.843,0.878,0.798,0.786,0.818,0.787,0.792,0.796,(2.3774)+(-0.0003)Gly+(0.0347)Thr+(-0.3629)Met+(0.0499)Ile+(0.1062)Phe+(-0.1659)Trp;0

.843,0.875,0.775,0.748,0.738,0.883,0.846,0.804,(0.3893)+(0.0451)Ser+(0.0376)Tyr+(-0.0598)Val+(-0.4122)Met+(0.0002)Lys+(0.2115)Ile;0.843,0.868,0.775,0.745,0.786,0.822,0.796,0.787,(7.5226)+(-0.1096)His+(0.0219)Thr+(-0.0176)Arg+(0.0191)Orn+(0.0612)Ile+(-0.1297)Trp;0.843,0.867,0.794,0.784,0.749,0.837,0.881,0.813,(1.6386)+(-0.0013)Tyr+(-0.0559)Val+(-0.3779)Met+(0.2195)Ile+(-0.0270)Leu+(0.1221)Phe;0.843,0.867,0.807,0.799,0.770,0.856,0.869,0.823,(5.7444)+(-0.1118)Asn+(0.0041)Gln+(-0.0440)Val+(0.0211)Orn+(0.1494)Ile+(-0.1156)Trp;0.843,0.867,0.792,0.787,0.742,0.847,0.873,0.812,(5.5518)+(0.0090)Thr+(-0.0085)Ala+(-0.0356)Val+(0.1814)Ile+(-0.0190)Leu+(-0.1330)Trp;0.843,0.869,0.783,0.767,0.795,0.847,0.758,0.792,(6.0442)+(0.0397)Ser+(-0.0547)Asn+(-0.1029)His+(0.0128)Thr+(0.0100)Val+(-0.1106)Trp;0.843,0.875,0.787,0.767,0.794,0.815,0.802,0.795,(5.1988)+(0.0040)Gly+(-0.1168)His+(0.0027)Pro+(0.0185)Orn+(0.0965)Phe+(-0.1163)Trp;0.843,0.866,0.774,0.752,0.775,0.844,0.780,0.788,(5.1224)+(0.0413)Ser+(-0.1060)His+(-0.0048)Ala+(0.0110)Pro+(0.0109)Val+(-0.1100)Trp;0.843,0.871,0.786,0.773,0.784,0.832,0.795,0.796,(1.3308)+(0.0433)Ser+(0.0017)Gln+(-0.2433)Met+(-0.0010)Orn+(0.0781)Ile+(-0.1483)Trp;0.843,0.871,0.810,0.800,0.779,0.848,0.875,0.826,(6.9656)+(-0.0123)Asn+(-0.0019)Arg+(-0.0435)Val+(-0.1681)Met+(0.1750)Ile+(-0.1050)Trp;0.843,0.871,0.777,0.753,0.787,0.831,0.785,0.789,(5.3151)+(0.0433)Ser+(-0.0054)Gly+(-0.1010)His+(0.0085)Pro+(0.0226)Orn+(-0.1077)Trp;0.843,0.867,0.783,0.771,0.785,0.838,0.768,0.791,(4.3038)+(0.0296)Ser+(0.0051)Gln+(-0.1170)His+(0.0074)Pro+(0.0180)Orn+(-0.1063)Trp;0.843,0.871,0.790,0.770,0.775,0.858,0.827,0.807,(3.4750)+(0.0086)Gln+(-0.1294)His+(0.0220)Thr+(-0.2634)Met+(0.1188)Ile+(-0.0342)Leu;0.843,0.868,0.775,0.746,0.785,0.819,0.797,0.787,(2.9713)+(0.0398)Ser+(-0.0035)Gly+(-0.0896)Cit+(0.0019)Pro+(0.0653)Ile+(-0.1876)Trp;0.843,0.868,0.781,0.754,0.789,0.825,0.804,0.793,(2.7199)+(0.0379)Ser+(-0.0036)Gly+(0

.0013)Gln+(-0.0902)Cit+(0.0666)Ile+(-0.1886)Trp;0.843,0.867,0.801,0.789,0.772,0.848,0.860,0.817,(5.1432)+(0.0044)Gln+(-0.0750)Cit+(-0.0330)Val+(-0.0070)Lys+(0.1463)Ile+(-0.1471)Trp;0.843,0.863,0.758,0.732,0.721,0.861,0.829,0.786,(1.9228)+(0.0335)Ser+(0.0034)Gln+(-0.1330)His+(-0.0077)Ala+(0.1176)Ile+(-0.0354)Leu;0.843,0.869,0.821,0.804,0.807,0.851,0.871,0.833,(4.5749)+(0.0058)Gln+(-0.0113)Ala+(-0.0963)Cit+(0.0094)Pro+(0.0796)Ile+(-0.1733)Trp;0.843,0.868,0.770,0.743,0.782,0.818,0.779,0.781,(2.8358)+(0.0365)Ser+(-0.0026)Thr+(-0.0932)Cit+(0.0021)Pro+(0.0671)Ile+(-0.1862)Trp;0.843,0.864,0.776,0.763,0.770,0.845,0.772,0.788,(5.3242)+(0.0381)Ser+(-0.0973)His+(-0.0041)Ala+(0.0131)Pro+(0.0055)Lys+(-0.1052)Trp;0.843,0.868,0.761,0.750,0.730,0.835,0.798,0.778,(3.5708)+(0.0311)Ser+(0.0087)Thr+(-0.0359)Arg+(-0.0439)Val+(0.1649)Ile+(-0.1400)Trp;0.843,0.865,0.770,0.749,0.759,0.838,0.797,0.786,(0.0879)+(0.0510)Ser+(-0.1244)Asn+(0.0080)Gln+(-0.1618)His+(-0.0077)Lys+(0.1145)Phe;0.843,0.872,0.812,0.797,0.814,0.831,0.836,0.819,(6.1283)+(-0.1077)His+(-0.0034)Ala+(0.0002)Val+(0.0241)Orn+(0.0981)Phe+(-0.1127)Trp;0.843,0.872,0.796,0.780,0.758,0.844,0.883,0.816,(2.1182)+(-0.0452)Cit+(0.0032)Pro+(-0.0626)Val+(-0.3742)Met+(0.1962)Ile+(0.1239)Phe;0.843,0.871,0.797,0.785,0.801,0.817,0.810,0.803,(5.4987)+(-0.0248)Asn+(0.0051)Gly+(-0.1075)His+(0.0040)Pro+(0.1061)Phe+(-0.1141)Trp;0.843,0.869,0.776,0.758,0.790,0.851,0.739,0.784,(5.8016)+(0.0378)Ser+(-0.0884)His+(0.0089)Thr+(-0.0471)Cit+(0.0099)Pro+(-0.1158)Trp;0.843,0.869,0.793,0.782,0.800,0.853,0.767,0.800,(5.9859)+(0.0388)Ser+(-0.0653)Asn+(-0.0914)His+(0.0287)Orn+(0.0063)Lys+(-0.1002)Trp;0.843,0.865,0.778,0.752,0.784,0.821,0.804,0.790,(7.6288)+(-0.1054)His+(0.0236)Thr+(-0.0154)Arg+(-0.0001)Lys+(0.0656)Ile+(-0.1293)Trp;0.843,0.874,0.786,0.763,0.783,0.811,0.838,0.799,(5.8260)+(-0.1112)His+(-0.0261)Tyr+(0.0166)Orn+(0.0475)Ile+(0.0833)Phe+(-0.1203)Trp;0.843,0.870,0.778,0.770,0.743,0.79

9,0.857,0.792,(3.0861)+(-0.0360)Val+(-0.0006)Orn+(0.1613)Ile+(-0.0272)Leu+(0.0701)Phe+(-0.1530)Trp;0.843,0.869,0.795,0.767,0.815,0.822,0.807,0.803,(4.5956)+(0.0208)Thr+(-0.1128)Cit+(-0.0203)Lys+(0.0606)Ile+(0.0836)Phe+(-0.1922)Trp;0.843,0.872,0.797,0.786,0.758,0.843,0.879,0.816,(2.0502)+(-0.0496)Cit+(-0.0528)Val+(-0.3526)Met+(0.2211)Ile+(-0.0322)Leu+(0.1276)Phe;0.843,0.868,0.802,0.772,0.808,0.854,0.833,0.817,(7.9736)+(-0.0704)His+(-0.0068)Ala+(-0.0838)Cit+(0.0487)Orn+(0.0710)Ile+(-0.1269)Trp;0.843,0.868,0.791,0.776,0.768,0.855,0.834,0.808,(3.1152)+(0.0441)Ser+(-0.0857)Asn+(-0.0070)Ala+(-0.0058)Lys+(0.0769)Ile+(-0.1416)Trp;0.843,0.865,0.790,0.784,0.747,0.845,0.855,0.808,(6.3778)+(0.0214)Thr+(-0.0078)Ala+(-0.0288)Arg+(-0.0455)Val+(0.1815)Ile+(-0.1325)Trp;0.843,0.867,0.791,0.771,0.811,0.826,0.778,0.796,(8.0580)+(-0.1015)His+(0.0349)Thr+(0.0053)Pro+(-0.1803)Met+(0.0288)Leu+(-0.1143)Trp;0.843,0.863,0.757,0.725,0.722,0.859,0.841,0.787,(2.7295)+(0.0459)Ser+(-0.0053)Gly+(-0.1200)His+(-0.0080)Ala+(0.1271)Ile+(-0.0403)Leu;0.843,0.868,0.769,0.750,0.779,0.835,0.751,0.779,(5.2330)+(0.0347)Ser+(-0.1051)His+(0.0022)Thr+(0.0078)Pro+(0.0220)Orn+(-0.1060)Trp;0.843,0.874,0.788,0.783,0.754,0.809,0.860,0.801,(4.0239)+(-0.0258)Arg+(-0.0368)Val+(0.1766)Ile+(-0.0339)Leu+(0.0818)Phe+(-0.1406)Trp;0.843,0.866,0.785,0.771,0.778,0.845,0.796,0.798,(5.6644)+(0.0469)Ser+(-0.0055)Gly+(-0.0901)His+(-0.0039)Ala+(0.0138)Pro+(-0.1030)Trp;0.843,0.868,0.792,0.780,0.750,0.835,0.882,0.812,(1.3163)+(0.0033)Pro+(-0.0668)Val+(-0.4222)Met+(0.0075)Lys+(0.1997)Ile+(0.1196)Phe;0.843,0.867,0.789,0.778,0.745,0.873,0.849,0.811,(5.0925)+(-0.0662)Asn+(0.0328)Thr+(-0.0626)Val+(-0.3377)Met+(0.0035)Lys+(0.2100)Ile;0.843,0.876,0.776,0.749,0.744,0.885,0.835,0.803,(0.5585)+(0.0487)Ser+(-0.0137)Arg+(0.0402)Tyr+(-0.0594)Val+(-0.3923)Met+(0.2111)Ile;0.843,0.867,0.793,0.786,0.746,0.835,0.878,0.811,(1.1918)+(-0.0583)Val+(-0.4059)Met+(0.0081)Lys+(0.2230)Ile+(-0.0

287)Leu+(0.1223)Phe;0.843,0.866,0.798,0.777,0.794,0.831,0.839,0.810,(5.0510)+(0.0085)Gln+(-0.1221)His+(0.0101)Orn+(-0.0029)Lys+(0.0633)Ile+(-0.1226)Trp;0.843,0.867,0.795,0.786,0.749,0.842,0.878,0.814,(5.7420)+(-0.0082)Ala+(-0.0418)Val+(0.0191)Orn+(-0.0037)Lys+(0.1666)Ile+(-0.1252)Trp;0.843,0.874,0.778,0.760,0.745,0.880,0.823,0.802,(1.6692)+(0.0427)Ser+(-0.0448)Cit+(-0.0036)Arg+(-0.0506)Val+(-0.3171)Met+(0.1937)Ile;0.843,0.864,0.778,0.751,0.778,0.824,0.816,0.792,(7.2843)+(-0.1068)His+(0.0199)Thr+(-0.0022)Pro+(-0.0029)Lys+(0.0687)Ile+(-0.1272)Trp;0.843,0.874,0.774,0.739,0.766,0.858,0.823,0.797,(0.9226)+(0.0488)Ser+(-0.0044)Gly+(0.0072)Gln+(-0.1409)His+(-0.2347)Met+(0.0797)Ile;0.843,0.872,0.791,0.784,0.797,0.854,0.756,0.798,(3.8775)+(0.0340)Ser+(0.0246)Thr+(-0.0345)Val+(-0.2793)Met+(0.0786)Leu+(-0.1420)Trp;0.843,0.870,0.800,0.779,0.796,0.837,0.838,0.813,(7.2475)+(-0.0686)His+(-0.1041)Met+(0.0235)Orn+(0.1222)Ile+(-0.0407)Leu+(-0.1042)Trp;0.843,0.869,0.782,0.765,0.759,0.843,0.829,0.799,(5.6006)+(0.0020)Gly+(0.0107)Thr+(-0.0755)Cit+(-0.0360)Val+(0.1480)Ile+(-0.1532)Trp;0.843,0.865,0.817,0.803,0.804,0.854,0.851,0.828,(4.5610)+(0.0047)Gln+(0.0113)Thr+(-0.0096)Ala+(-0.0942)Cit+(0.0832)Ile+(-0.1782)Trp;0.843,0.871,0.811,0.806,0.805,0.837,0.820,0.817,(5.7660)+(-0.0210)Asn+(0.0052)Gly+(-0.1050)His+(-0.0027)Ala+(0.1148)Phe+(-0.1094)Trp;0.843,0.870,0.798,0.783,0.821,0.836,0.764,0.801,(5.8903)+(0.0025)Gly+(0.0270)Thr+(-0.0785)Cit+(-0.2136)Met+(0.0730)Ile+(-0.1563)Trp;0.843,0.866,0.797,0.784,0.769,0.842,0.855,0.813,(5.0143)+(0.0034)Gln+(-0.0737)Cit+(0.0010)Pro+(-0.0344)Val+(0.1428)Ile+(-0.1522)Trp;0.843,0.872,0.803,0.802,0.809,0.871,0.745,0.807,(7.0300)+(0.0351)Ser+(-0.0424)Asn+(-0.0829)His+(0.0223)Thr+(-0.0880)Met+(-0.1000)Trp;0.843,0.868,0.774,0.748,0.786,0.823,0.780,0.784,(2.6657)+(0.0337)Ser+(0.0010)Gln+(-0.0961)Cit+(0.0016)Pro+(0.0666)Ile+(-0.1899)Trp;0.843,0.868,0.818,0.823,0.837,0.875,0.724,0.815,(6.6752)+(0

.0355)Ser+(-0.0749)Asn+(0.0217)Thr+(-0.0683)Cit+(-0.1032)Met+(-0.1374)Trp;0.843,0.863,0.801,0.799,0.811,0.832,0.767,0.802,(8.0908)+(-0.0878)His+(0.0275)Thr+(0.0094)Pro+(-0.1738)Met+(0.0112)Lys+(-0.1092)Trp;0.843,0.868,0.787,0.775,0.745,0.869,0.846,0.809,(5.1963)+(-0.0628)Asn+(0.0338)Thr+(0.0022)Pro+(-0.0618)Val+(-0.3365)Met+(0.2068)Ile;0.843,0.874,0.784,0.773,0.754,0.810,0.856,0.799,(4.0706)+(-0.0282)Arg+(-0.0481)Val+(0.0166)Orn+(0.1520)Ile+(0.0725)Phe+(-0.1443)Trp;0.843,0.871,0.794,0.779,0.753,0.839,0.885,0.814,(1.5717)+(0.0018)Tyr+(-0.0649)Val+(-0.3932)Met+(0.0125)Orn+(0.1998)Ile+(0.1145)Phe;0.843,0.873,0.797,0.810,0.783,0.805,0.785,0.796,(1.4585)+(0.0479)Ser+(-0.1321)Asn+(-0.0320)Tyr+(-0.0003)Leu+(0.1101)Phe+(-0.1400)Trp;0.843,0.872,0.798,0.778,0.807,0.812,0.823,0.805,(5.8037)+(-0.1097)His+(0.0032)Pro+(-0.0022)Val+(0.0217)Orn+(0.0938)Phe+(-0.1154)Trp;0.843,0.871,0.778,0.770,0.743,0.799,0.857,0.792,(3.0927)+(-0.0001)Gly+(-0.0361)Val+(0.1612)Ile+(-0.0271)Leu+(0.0697)Phe+(-0.1529)Trp;0.843,0.870,0.787,0.774,0.788,0.862,0.765,0.797,(5.9058)+(0.0416)Ser+(-0.0772)His+(-0.0045)Ala+(-0.0475)Cit+(0.0156)Pro+(-0.1088)Trp;0.843,0.869,0.791,0.783,0.742,0.848,0.874,0.812,(5.8407)+(0.0137)Thr+(-0.0085)Ala+(-0.0409)Val+(-0.0072)Lys+(0.1713)Ile+(-0.1317)Trp;0.843,

0.876,0.756,0.716,0.751,0.861,0.797,0.781,(1.9575)+(0.0513)Ser+(-0.1121)His+(0.0198)Tyr+(-0.2559)Met+(0.1378)Ile+(-0.0394)Leu;0.843,0.868,0.768,0.748,0.779,0.835,0.753,0.779,(5.1192)+(0.0354)Ser+(-0.1053)His+(0.0081)Pro+(0.0219)Orn+(0.0017)Lys+(-0.1066)Trp;0.843,0.863,0.755,0.724,0.710,0.855,0.857,0.787,(2.9137)+(0.0442)Ser+(-0.0062)Gly+(-0.1060)His+(-0.0074)Ala+(-0.0303)Val+(0.1391)Ile;0.843,0.875,0.819,0.826,0.839,0.794,0.777,0.809,(1.4915)+(0.0044)Gln+(0.0353)Thr+(-0.3558)Met+(-0.0035)Lys+(0.1307)Phe+(-0.1614)Trp;0.843,0.872,0.787,0.764,0.774,0.847,0.829,0.803,(5.8092)+(-0.0945)Cit+(-0.0318)Val+(0.0419)Orn+(0.1

558)Ile+(-0.0184)Leu+(-0.1449)Trp;0.843,0.868,0.809,0.793,0.789,0.849,0.867,0.824,(7.4776)+(-0.0683)His+(-0.0062)Ala+(0.0094)Tyr+(0.1325)Ile+(-0.0417)Leu+(-0.1144)Trp;0.843,0.867,0.789,0.765,0.785,0.824,0.833,0.802,(6.8088)+(-0.0869)His+(0.0196)Orn+(0.0036)Lys+(0.1096)Ile+(-0.0378)Leu+(-0.1171)Trp;0.843,0.873,0.803,0.806,0.826,0.781,0.765,0.795,(2.8138)+(0.0361)Thr+(0.0055)Pro+(-0.3528)Met+(-0.0014)Lys+(0.1275)Phe+(-0.1591)Trp;0.843,0.866,0.776,0.752,0.786,0.825,0.785,0.787,(2.5810)+(0.0345)Ser+(0.0013)Gln+(-0.0028)Thr+(-0.0937)Cit+(0.0688)Ile+(-0.1870)Trp;0.843,0.866,0.741,0.704,0.713,0.845,0.821,0.771,(-0.1590)+(0.0415)Ser+(0.0033)Gln+(-0.1699)His+(-0.0081)Ala+(0.0511)Ile+(0.0701)Phe;0.843,0.869,0.807,0.795,0.775,0.851,0.872,0.823,(7.3213)+(-0.0567)Asn+(-0.0549)Cit+(-0.0390)Val+(0.0030)Lys+(0.1533)Ile+(-0.1254)Trp;0.843,0.870,0.770,0.734,0.796,0.849,0.753,0.783,(5.0401)+(0.0402)Ser+(-0.1000)His+(-0.0779)Cit+(0.0419)Orn+(0.0272)Leu+(-0.1300)Trp;0.843,0.872,0.777,0.748,0.794,0.843,0.768,0.788,(4.5792)+(0.0463)Ser+(-0.1071)His+(-0.1324)Met+(0.0228)Orn+(0.0339)Leu+(-0.1053)Trp;0.843,0.871,0.743,0.701,0.753,0.842,0.761,0.764,(2.3605)+(0.0459)Ser+(-0.1324)His+(0.0186)Thr+(0.0033)Pro+(-0.2877)Met+(0.0819)Ile;0.843,0.867,0.796,0.786,0.801,0.858,0.767,0.803,(6.1584)+(0.0389)Ser+(-0.0565)Asn+(-0.0873)His+(-0.0006)Ala+(0.0323)Orn+(-0.0947)Trp;0.842,0.866,0.800,0.780,0.794,0.835,0.842,0.813,(4.9756)+(0.0090)Gln+(-0.1215)His+(0.0023)Tyr+(-0.0023)Lys+(0.0656)Ile+(-0.1239)Trp;0.842,0.871,0.765,0.752,0.739,0.837,0.801,0.782,(3.3796)+(0.0327)Ser+(-0.0350)Arg+(-0.0443)Val+(0.0181)Orn+(0.1621)Ile+(-0.1364)Trp;0.842,0.866,0.815,0.811,0.784,0.858,0.861,0.829,(6.5061)+(-0.0537)Asn+(0.0130)Thr+(-0.0080)Ala+(0.1513)Ile+(-0.0618)Leu+(-0.1346)Trp;0.842,0.870,0.784,0.764,0.770,0.842,0.825,0.800,(6.0252)+(-0.0931)Cit+(-0.0127)Tyr+(-0.0370)Val+(0.0451)Orn+(0.1429)Ile+(-0.1423)Trp;0.842,0.866,0.776,0.765,0.742,0.801,0.855,0.79

1,(3.0465)+(0.0054)Thr+(-0.0035)Pro+(-0.0445)Val+(0.1455)Ile+(0.0672)Phe+(-0.1599)Trp;0.842,0.867,0.805,0.785,0.797,0.846,0.846,0.819,(6.1816)+(0.0143)Thr+(-0.0110)Ala+(-0.0920)Cit+(0.0085)Pro+(0.0768)Ile+(-0.1704)Trp;0.842,0.866,0.816,0.819,0.808,0.869,0.785,0.820,(4.4409)+(0.0301)Ser+(0.0073)Gln+(-0.1034)His+(-0.1064)Met+(0.0088)Lys+(-0.0993)Trp;0.842,0.866,0.788,0.766,0.769,0.833,0.854,0.806,(7.3930)+(-0.0538)His+(-0.0440)Cit+(0.0024)Pro+(-0.0299)Val+(0.1388)Ile+(-0.1175)Trp;0.842,0.865,0.790,0.773,0.763,0.834,0.861,0.808,(7.5607)+(-0.0263)Asn+(-0.0597)His+(-0.0313)Val+(0.1425)Ile+(-0.0024)Leu+(-0.1047)Trp;0.842,0.878,0.816,0.790,0.822,0.830,0.860,0.826,(5.7881)+(-0.0943)His+(0.0047)Tyr+(-0.1789)Met+(0.0565)Ile+(0.1070)Phe+(-0.1190)Trp;0.842,0.864,0.778,0.763,0.708,0.885,0.889,0.811,(2.9949)+(0.0519)Ser+(-0.1591)Asn+(-0.0055)Gly+(-0.0078)Ala+(-0.0545)Val+(0.1886)Ile;0.842,0.872,0.801,0.788,0.791,0.822,0.841,0.811,(4.0959)+(-0.0956)Cit+(-0.0053)Lys+(0.1476)Ile+(-0.0694)Leu+(0.0924)Phe+(-0.1594)Trp;0.842,0.863,0.771,0.754,0.757,0.835,0.797,0.786,(0.0596)+(0.0504)Ser+(-0.1418)Asn+(0.0078)Gln+(-0.1559)His+(-0.0063)Val+(0.1215)Phe;0.842,0.870,0.795,0.793,0.775,0.813,0.829,0.802,(3.9013)+(-0.0909)Cit+(-0.0384)Tyr+(0.1552)Ile+(-0.0761)Leu+(0.1115)Phe+(-0.1467)Trp;0.842,0.868,0.770,0.741,0.779,0.835,0.777,0.783,(5.0313)+(0.0474)Ser+(-0.0535)Asn+(-0.1045)His+(0.0067)Pro+(0.0267)Leu+(-0.1121)Trp;0.842,0.866,0.795,0.801,0.800,0.840,0.733,0.794,(4.8951)+(0.0387)Ser+(-0.0689)Asn+(0.0137)Thr+(0.0119)Pro+(-0.1726)Met+(-0.1361)Trp;0.842,0.872,0.788,0.779,0.786,0.835,0.784,0.796,(1.4305)+(0.0444)Ser+(0.0024)Gln+(-0.0123)Arg+(-0.2291)Met+(0.0779)Ile+(-0.1469)Trp;0.842,0.872,0.809,0.792,0.815,0.823,0.828,0.815,(6.1811)+(-0.0201)Asn+(-0.1044)His+(-0.0022)Val+(0.0246)Orn+(0.0961)Phe+(-0.1112)Trp;0.842,0.870,0.800,0.784,0.796,0.835,0.823,0.810,(5.5754)+(0.0050)Gly+(-0.1148)His+(-0.0038)Ala+(0.0147)Leu+(0.1021)Phe+(-0.

1191)Trp;0.842,0.867,0.783,0.757,0.789,0.825,0.810,0.795,(7.8353)+(-0.0176)Asn+(-0.1021)His+(0.0249)Thr+(-0.0139)Arg+(0.0645)Ile+(-0.1281)Trp;0.842,0.867,0.785,0.757,0.786,0.830,0.821,0.799,(7.5694)+(-0.0280)Asn+(-0.1030)His+(0.0218)Thr+(-0.0021)Pro+(0.0656)Ile+(-0.1264)Trp;0.842,0.867,0.792,0.786,0.793,0.857,0.756,0.798,(6.5274)+(0.0368)Ser+(-0.0722)Asn+(-0.0920)His+(0.0142)Thr+(0.0077)Lys+(-0.1055)Trp;0.842,0.864,0.763,0.735,0.742,0.854,0.814,0.786,(1.9544)+(0.0394)Ser+(-0.1042)Asn+(0.0068)Gln+(-0.1337)His+(0.1013)Ile+(-0.0319)Leu;0.842,0.870,0.779,0.767,0.803,0.810,0.740,0.780,(1.4985)+(0.0340)Ser+(-0.1313)Cit+(-0.0041)Val+(0.0399)Orn+(0.0926)Phe+(-0.1872)Trp;0.842,0.870,0.775,0.758,0.803,0.808,0.739,0.777,(1.3857)+(0.0345)Ser+(-0.1338)Cit+(0.0373)Orn+(0.0016)Leu+(0.0861)Phe+(-0.1944)Trp;0.842,0.876,0.827,0.835,0.837,0.813,0.795,0.820,(1.6014)+(0.0043)Gln+(0.0354)Thr+(-0.0035)Ala+(-0.3414)Met+(0.1323)Phe+(-0.1613)Trp;0.842,0.866,0.800,0.781,0.793,0.834,0.842,0.812,(4.9992)+(0.0090)Gln+(-0.1208)His+(-0.0005)Pro+(-0.0021)Lys+(0.0664)Ile+(-0.1230)Trp;0.842,0.866,0.795,0.775,0.790,0.829,0.834,0.807,(4.7998)+(0.0016)Gly+(0.0084)Gln+(-0.1238)His+(0.0023)Tyr+(0.0650)Ile+(-0.1249)Trp;0.842,0.871,0.814,0.790,0.804,0.853,0.871,0.830,(0.6273)+(0.0121)Gln+(-0.1502)His+(-0.0034)Ala+(-0.2697)Met+(0.0544)Ile+(0.1041)Phe;0.842,0.871,0.747,0.705,0.754,0.843,0.774,0.769,(2.5000)+(0.0494)Ser+(-0.0032)Gly+(-0.1314)His+(0.0201)Thr+(-0.2807)Met+(0.0846)Ile;0.842,0.873,0.749,0.708,0.762,0.851,0.753,0.769,(2.7075)+(0.0458)Ser+(-0.1239)His+(0.0219)Thr+(-0.0438)Cit+(-0.2788)Met+(0.0862)Ile;0.842,0.872,0.804,0.808,0.826,0.781,0.764,0.795,(2.7774)+(0.0357)Thr+(0.0057)Pro+(-0.3549)Met+(-0.0021)Leu+(0.1287)Phe+(-0.1589)Trp;0.842,0.868,0.780,0.771,0.745,0.800,0.862,0.795,(3.2043)+(0.0000)Gln+(-0.0026)Pro+(-0.0441)Val+(0.1449)Ile+(0.0689)Phe+(-0.1566)Trp;0.842,0.868,0.777,0.767,0.742,0.798,0.860,0.792,(3.1445)+(0.0000)Gly+(-0.0

442)Val+(0.0019)Orn+(0.1418)Ile+(0.0674)Phe+(-0.1577)Trp;0.842,0.867,0.787,0.765,0.785,0.841,0.810,0.800,(6.7176)+(0.0059)Gly+(-0.0632)His+(-0.0588)Cit+(0.1258)Ile+(-0.0375)Leu+(-0.1230)Trp;0.842,0.865,0.772,0.748,0.778,0.822,0.788,0.784,(7.3121)+(0.0023)Gly+(-0.1073)His+(0.0220)Thr+(-0.0159)Arg+(0.0671)Ile+(-0.1274)Trp;0.842,0.875,0.825,0.814,0.830,0.829,0.844,0.829,(6.1082)+(-0.0888)His+(-0.0034)Ala+(0.0102)Pro+(-0.1413)Met+(0.1280)Phe+(-0.1077)Trp;0.842,0.872,0.785,0.771,0.767,0.824,0.828,0.798,(0.4394)+(0.0388)Ser+(-0.0097)Ala+(-0.0281)Arg+(0.0648)Ile+(0.0725)Phe+(-0.1728)Trp;0.842,0.868,0.838,0.828,0.823,0.866,0.876,0.848,(4.8214)+(-0.0550)Asn+(0.0081)Gln+(-0.0076)Ala+(-0.0880)Cit+(0.0799)Ile+(-0.1627)Trp;0.842,0.870,0.781,0.768,0.812,0.813,0.731,0.781,(1.6835)+(0.0370)Ser+(-0.1248)Cit+(-0.0162)Arg+(0.0405)Orn+(0.0915)Phe+(-0.1895)Trp;0.842,0.871,0.815,0.804,0.808,0.825,0.849,0.822,(6.3613)+(-0.0107)Asn+(-0.0981)His+(-0.0050)Ala+(0.0084)Pro+(0.1050)Phe+(-0.1143)Trp;0.842,0.871,0.815,0.800,0.824,0.814,0.832,0.818,(5.5857)+(0.0234)Asn+(-0.0959)His+(0.0079)Pro+(-0.1737)Met+(0.1301)Phe+(-0.1097)Trp;0.842,0.870,0.758,0.719,0.750,0.860,0.803,0.783,(2.3336)+(0.0500)Ser+(-0.1255)His+(-0.0050)Ala+(-0.2000)Met+(0.0147)Orn+(0.0874)Ile;0.842,0.868,0.807,0.781,0.802,0.843,0.857,0.821,(0.2885)+(0.0065)Asn+(0.0124)Gln+(-0.1563)His+(-0.2954)Met+(0.0500)Ile+(0.1065)Phe;0.842,0.869,0.794,0.780,0.813,0.835,0.759,0.797,(3.9300)+(0.0450)Ser+(-0.0723)Cit+(0.0121)Pro+(-0.1936)Met+(0.0207)Leu+(-0.1503)Trp;0.842,0.867,0.777,0.749,0.787,0.823,0.800,0.790,(2.9697)+(0.0401)Ser+(-0.0034)Gly+(-0.0011)Thr+(-0.0875)Cit+(0.0676)Ile+(-0.1853)Trp;0.842,0.866,0.796,0.775,0.791,0.852,0.825,0.811,(7.2953)+(0.0067)Gly+(-0.0718)His+(-0.0059)Ala+(-0.0621)Cit+(0.0868)Ile+(-0.1234)Trp;0.842,0.865,0.807,0.802,0.759,0.856,0.889,0.826,(7.1330)+(-0.0400)Asn+(-0.0063)Ala+(-0.0083)Arg+(-0.0428)Val+(0.1726)Ile+(-0.1118)Trp;0.842,0.874,0.756,0.

722,0.748,0.853,0.794,0.779,(2.4068)+(0.0488)Ser+(-0.0034)Asn+(-0.1087)His+(-0.2170)Met+(0.1349)Ile+(-0.0375)Leu;0.842,0.869,0.805,0.795,0.801,0.833,0.820,0.812,(5.5646)+(0.0048)Gly+(-0.1117)His+(-0.0032)Ala+(0.0028)Val+(0.1101)Phe+(-0.1144)Trp;0.842,0.867,0.777,0.750,0.784,0.836,0.791,0.791,(3.5210)+(0.0343)Ser+(0.0061)Gln+(-0.1373)His+(0.0110)Tyr+(0.0297)Leu+(-0.1231)Trp;0.842,0.865,0.790,0.772,0.763,0.834,0.860,0.807,(7.5603)+(-0.0273)Asn+(-0.0602)His+(0.0012)Pro+(-0.0321)Val+(0.1396)Ile+(-0.1049)Trp;0.842,0.871,0.804,0.794,0.775,0.849,0.862,0.820,(6.4377)+(0.0025)Gly+(-0.0037)Arg+(-0.0435)Val+(-0.1855)Met+(0.1773)Ile+(-0.1067)Trp;0.842,0.871,0.805,0.791,0.775,0.848,0.871,0.821,(7.3774)+(-0.0519)Asn+(-0.0573)Cit+(0.0029)Pro+(-0.0384)Val+(0.1510)Ile+(-0.1253)Trp;0.842,0.867,0.763,0.730,0.782,0.831,0.763,0.776,(4.8366)+(0.0447)Ser+(-0.1018)His+(-0.0476)Cit+(0.0074)Pro+(0.0289)Leu+(-0.1285)Trp;0.842,0.866,0.796,0.769,0.791,0.837,0.848,0.811,(7.5552)+(-0.0929)His+(-0.0061)Ala+(0.0041)Pro+(0.0228)Orn+(0.0655)Ile+(-0.1176)Trp;0.842,0.866,0.810,0.806,0.830,0.871,0.737,0.811,(5.2009)+(0.0337)Ser+(-0.0028)Ala+(-0.1062)Cit+(-0.1074)Met+(0.0550)Orn+(-0.1370)Trp;0.842,0.866,0.799,0.788,0.772,0.845,0.850,0.814,(4.8488)+(0.0038)Gln+(-0.0752)Cit+(-0.0256)Val+(0.1631)Ile+(-0.0276)Leu+(-0.1494)Trp;0.842,0.874,0.768,0.729,0.766,0.860,0.807,0.790,(0.5661)+(0.0456)Ser+(0.0067)Gln+(-0.1452)His+(0.0187)Tyr+(-0.2704)Met+(0.0810)Ile;0.842,0.870,0.795,0.793,0.803,0.866,0.731,0.798,(6.5444)+(0.0330)Ser+(-0.0895)His+(0.0215)Thr+(0.0012)Ala+(-0.1249)Met+(-0.1004)Trp;0.842,0.868,0.796,0.792,0.810,0.840,0.743,0.796,(4.4718)+(0.0419)Ser+(-0.0683)Cit+(0.0150)Pro+(-0.1881)Met+(0.0056)Lys+(-0.1418)Trp;0.842,0.869,0.795,0.785,0.804,0.862,0.759,0.802,(5.5960)+(0.0360)Ser+(-0.0933)His+(-0.1006)Met+(0.0297)Orn+(0.0077)Lys+(-0.0988)Trp;0.842,0.867,0.822,0.830,0.814,0.867,0.787,0.825,(5.0109)+(0.

0345)Ser+(-0.0661)Asn+(0.0096)Gln+(-0.0988)His+(-0.0132)Arg+(-0.0918)Trp;0.842,0.870,0.785,0.774,0.805,0.814,0.750,0.786,(1.8292)+(0.0373)Ser+(0.0087)Thr+(-0.1060)Cit+(-0.0146)Lys+(0.1124)Phe+(-0.1791)Trp;0.842,0.872,0.794,0.796,0.784,0.819,0.795,0.799,(1.0400)+(0.0364)Ser+(-0.0086)Ala+(-0.0271)Arg+(0.0105)Pro+(0.0950)Phe+(-0.1649)Trp;0.842,0.870,0.793,0.764,0.794,0.814,0.854,0.807,(5.9018)+(-0.0044)Asn+(-0.1085)His+(-0.0012)Pro+(0.0498)Ile+(0.0772)Phe+(-0.1285)Trp;0.842,0.866,0.789,0.765,0.781,0.841,0.829,0.804,(7.0673)+(0.0037)Gly+(-0.0985)His+(-0.0053)Ala+(0.0228)Orn+(0.0711)Ile+(-0.1159)Trp;0.842,0.868,0.793,0.781,0.757,0.851,0.857,0.811,(6.8201)+(-0.1112)Asn+(0.0003)Gly+(0.0193)Thr+(-0.0449)Val+(0.1579)Ile+(-0.1194)Trp;0.842,0.868,0.784,0.762,0.778,0.828,0.825,0.798,(7.0161)+(-0.0928)His+(0.0155)Thr+(-0.0029)Pro+(0.1075)Ile+(-0.0291)Leu+(-0.1225)Trp;0.842,0.865,0.776,0.745,0.781,0.823,0.812,0.790,(7.0267)+(-0.1128)His+(0.0171)Thr+(-0.0029)Pro+(0.0163)Orn+(0.0640)Ile+(-0.1280)Trp;0.842,0.868,0.785,0.767,0.761,0.840,0.841,0.802,(5.8339)+(0.0118)Thr+(-0.0722)Cit+(0.0004)Pro+(-0.0363)Val+(0.1470)Ile+(-0.1528)Trp;0.842,0.867,0.814,0.805,0.835,0.861,0.761,0.815,(5.1631)+(0.0429)Ser+(-0.0059)Gly+(-0.0981)Cit+(-0.1329)Met+(0.0516)Orn+(-0.1395)Trp;0.842,0.871,0.803,0.800,0.804,0.835,0.786,0.806,(1.8301)+(0.0400)Ser+(-0.0049)Ala+(-0.0965)Cit+(-0.0100)Lys+(0.1190)Phe+(-0.1650)Trp;0.842,0.868,0.807,0.782,0.804,0.841,0.857,0.821,(0.3266)+(0.0125)Gln+(-0.1551)His+(0.0007)Pro+(-0.2915)Met+(0.0488)Ile+(0.1059)Phe;0.842,0.867,0.783,0.768,0.798,0.812,0.768,0.787,(1.5660)+(0.0419)Ser+(-0.1058)Cit+(-0.0160)Lys+(0.0136)Leu+(0.1042)Phe+(-0.1804)Trp;0.842,0.869,0.793,0.782,0.757,0.849,0.857,0.812,(6.8470)+(-0.1092)Asn+(0.0192)Thr+(-0.0439)Val+(0.1599)Ile+(-0.0031)Leu+(-0.1195)Trp;0.842,0.867,0.794,0.787,0.747,0.844,0.877,0.814,(5.5729)+(-0.0083)Ala+(-0.0017)Tyr+(-0.0422)Val+(0.0173)Orn+(0.1657)Ile+(-0.1281)Trp;0.842,

0.872,0.819,0.819,0.786,0.838,0.872,0.829,(4.3600)+(-0.0086)Ala+(-0.0211)Arg+(0.1690)Ile+(-0.0820)Leu+(0.0834)Phe+(-0.1386)Trp;0.842,0.867,0.822,0.811,0.796,0.869,0.869,0.836,(7.1173)+(-0.0094)Asn+(-0.0077)Ala+(-0.0714)Cit+(0.1645)Ile+(-0.0600)Leu+(-0.1314)Trp;0.842,0.867,0.772,0.745,0.775,0.819,0.807,0.786,(7.0577)+(-0.1099)His+(0.0175)Thr+(-0.0144)Tyr+(0.0177)Orn+(0.0625)Ile+(-0.1236)Trp;0.842,0.873,0.785,0.762,0.794,0.816,0.805,0.794,(5.2883)+(0.0043)Gly+(-0.1212)His+(0.0181)Orn+(0.0098)Leu+(0.0904)Phe+(-0.1202)Trp;0.842,0.873,0.784,0.774,0.748,0.806,0.871,0.800,(3.5667)+(-0.0024)Pro+(-0.0433)Val+(-0.0075)Lys+(0.1481)Ile+(0.0748)Phe+(-0.1504)Trp;0.842,0.869,0.833,0.838,0.836,0.874,0.785,0.833,(6.5730)+(0.0092)Gln+(-0.0938)His+(0.0272)Thr+(-0.0376)Cit+(-0.1338)Met+(-0.1045)Trp;0.842,0.869,0.785,0.767,0.797,0.847,0.765,0.794,(5.6350)+(0.0415)Ser+(-0.0508)Asn+(-0.1003)His+(0.0083)Val+(0.0249)Orn+(-0.1051)Trp;0.842,0.867,0.781,0.756,0.781,0.825,0.818,0.795,(7.5909)+(-0.0278)Asn+(-0.1007)His+(0.0222)Thr+(-0.0100)Tyr+(0.0646)Ile+(-0.1233)Trp;0.842,0.868,0.778,0.755,0.763,0.825,0.834,0.794,(7.3899)+(-0.0695)His+(-0.0173)Arg+(-0.0343)Val+(0.0331)Orn+(0.1413)Ile+(-0.1061)Trp;0.842,0.861,0.718,0.675,0.704,0.809,0.797,0.746,(0.0573)+(0.0474)Ser+(-0.0041)Gly+(-0.1542)His+(0.1001)Ile+(-0.0489)Leu+(0.0826)Phe;0.842,0.864,0.779,0.770,0.742,0.868,0.817,0.799,(4.7283)+(-0.0003)Gly+(0.0390)Thr+(-0.0208)Arg+(-0.0621)Val+(-0.3754)Met+(0.2127)Ile;0.842,0.863,0.786,0.778,0.783,0.841,0.770,0.793,(4.3847)+(0.0299)Ser+(0.0057)Gln+(-0.1149)His+(0.0026)Thr+(0.0083)Pro+(-0.1064)Trp;0.842,0.874,0.818,0.826,0.837,0.790,0.776,0.807,(1.4023)+(0.0042)Gln+(0.0342)Thr+(-0.3608)Met+(-0.0003)Leu+(0.1293)Phe+(-0.1629)Trp;0.842,0.873,0.781,0.771,0.745,0.805,0.865,0.796,(3.3934)+(-0.0366)Val+(-0.0062)Lys+(0.1608)Ile+(-0.0230)Leu+(0.0742)Phe+(-0.1485)Trp;0.842,0.870,0.809,0.788,0.833,0.839,0.790,0.813,(6.1038)+(0.0282)Thr+(-0.0764)Cit+(

0.0149)Tyr+(-0.2311)Met+(0.0706)Ile+(-0.1618)Trp;0.842,0.867,0.819,0.808,0.792,0.867,0.867,0.833,(6.7946)+(-0.0080)Ala+(-0.0728)Cit+(0.0018)Lys+(0.1665)Ile+(-0.0616)Leu+(-0.1351)Trp;0.842,0.869,0.814,0.800,0.794,0.851,0.865,0.827,(7.6877)+(-0.0562)His+(-0.0047)Ala+(-0.0742)Met+(0.1395)Ile+(-0.0440)Leu+(-0.1034)Trp;0.842,0.867,0.796,0.784,0.796,0.850,0.791,0.805,(3.9537)+(0.0321)Ser+(0.0069)Gln+(-0.1278)His+(-0.0024)Ala+(0.0138)Val+(-0.1121)Trp;0.842,0.866,0.802,0.783,0.828,0.839,0.773,0.806,(6.1045)+(0.0245)Thr+(-0.0946)Cit+(-0.1992)Met+(0.0273)Orn+(0.0627)Ile+(-0.1592)Trp;0.842,0.864,0.798,0.776,0.794,0.831,0.838,0.810,(4.9969)+(0.0083)Gln+(-0.1236)His+(-0.0011)Pro+(0.0096)Orn+(0.0631)Ile+(-0.1241)Trp;0.842,0.874,0.806,0.795,0.777,0.845,0.869,0.821,(6.8039)+(-0.0038)Arg+(0.0046)Pro+(-0.0438)Val+(-0.1876)Met+(0.1717)Ile+(-0.1066)Trp;0.842,0.871,0.773,0.769,0.791,0.803,0.728,0.773,(1.4261)+(0.0363)Ser+(-0.1330)Cit+(-0.0421)Tyr+(0.0428)Orn+(0.1105)Phe+(-0.1792)Trp;0.842,0.871,0.805,0.807,0.827,0.780,0.770,0.796,(2.9155)+(-0.0010)Gly+(0.0363)Thr+(0.0054)Pro+(-0.3536)Met+(0.1261)Phe+(-0.1606)Trp;0.842,0.873,0.766,0.734,0.760,0.856,0.802,0.788,(1.0636)+(0.0441)Ser+(0.0066)Gln+(-0.1393)His+(-0.2282)Met+(-0.0035)Lys+(0.0829)Ile;0.842,0.871,0.802,0.796,0.791,0.837,0.816,0.810,(5.6609)+(0.0207)Thr+(0.0001)Pro+(-0.2185)Met+(0.1452)Ile+(-0.0563)Leu+(-0.1342)Trp;0.842,0.864,0.800,0.796,0.748,0.847,0.886,0.819,(5.2076)+(-0.0007)Gly+(0.0020)Gln+(-0.0082)Ala+(-0.0402)Val+(0.1653)Ile+(-0.1319)Trp;0.842,0.867,0.769,0.747,0.778,0.817,0.775,0.779,(3.0739)+(0.0351)Ser+(-0.0920)Cit+(0.0026)Pro+(-0.0106)Tyr+(0.0670)Ile+(-0.1830)Trp;0.842,0.871,0.795,0.775,0.806,0.843,0.789,0.803,(8.1469)+(-0.0952)His+(0.0405)Thr+(-0.0258)Val+(-0.1985)Met+(0.0720)Leu+(-0.1064)Trp;0.842,0.871,0.765,0.731,0.755,0.864,0.805,0.789,(2.6573)+(0.0519)Ser+(-0.1093)His+(-0.0059)Ala+(-0.0445)Cit+(-0.1861)Met+(0.0942)Ile;0.842,0.866,0.772,0.747,0.79

2,0.836,0.751,0.781,(5.1825)+(0.0434)Ser+(-0.0959)His+(-0.0492)Cit+(0.0082)Pro+(0.0109)Val+(-0.1234)Trp;0.842,0.864,0.801,0.798,0.751,0.849,0.879,0.819,(5.1063)+(0.0021)Gln+(-0.0082)Ala+(-0.0325)Val+(0.1816)Ile+(-0.0243)Leu+(-0.1300)Trp;0.842,0.874,0.798,0.782,0.759,0.846,0.888,0.819,(1.9992)+(-0.0488)Cit+(0.0046)Arg+(-0.0623)Val+(-0.3738)Met+(0.1992)Ile+(0.1237)Phe;0.842,0.871,0.796,0.796,0.806,0.872,0.719,0.799,(6.9633)+(0.0341)Ser+(-0.0871)His+(0.0255)Thr+(-0.0136)Arg+(-0.1131)Met+(-0.0981)Trp;0.842,0.866,0.793,0.785,0.742,0.842,0.886,0.814,(5.7783)+(-0.0094)Ala+(0.0064)Pro+(0.0014)Tyr+(-0.0414)Val+(0.1642)Ile+(-0.1279)Trp;0.842,0.871,0.804,0.795,0.796,0.840,0.819,0.812,(5.5532)+(0.0203)Thr+(0.0106)Tyr+(-0.2313)Met+(0.1450)Ile+(-0.0566)Leu+(-0.1371)Trp;0.842,0.870,0.799,0.790,0.806,0.863,0.762,0.805,(6.1174)+(0.0395)Ser+(-0.0423)Asn+(-0.0843)His+(-0.0507)Met+(0.0335)Orn+(-0.0933)Trp;0.842,0.872,0.815,0.801,0.826,0.813,0.835,0.818,(5.5357)+(-0.1017)His+(0.0072)Pro+(-0.1963)Met+(0.0149)Lys+(0.1268)Phe+(-0.1183)Trp;0.842,0.868,0.792,0.778,0.751,0.841,0.878,0.812,(1.8226)+(-0.0079)Arg+(-0.0650)Val+(-0.3747)Met+(0.0161)Orn+(0.1991)Ile+(0.1145)Phe;0.842,0.871,0.794,0.780,0.753,0.838,0.884,0.814,(1.6991)+(0.0030)Pro+(0.0017)Tyr+(-0.0643)Val+(-0.3992)Met+(0.1984)Ile+(0.1189)Phe;0.842,0.870,0.795,0.784,0.750,0.839,0.887,0.815,(1.3113)+(0.0018)Tyr+(-0.0667)Val+(-0.4156)Met+(0.0072)Lys+(0.2032)Ile+(0.1197)Phe;0.842,0.866,0.805,0.800,0.834,0.867,0.713,0.804,(5.1829)+(0.0313)Ser+(0.0102)Thr+(-0.1025)Cit+(-0.1559)Met+(0.0473)Orn+(-0.1431)Trp;0.842,0.866,0.785,0.780,0.746,0.873,0.815,0.804,(3.6074)+(0.0034)Gln+(0.0379)Thr+(-0.0250)Arg+(-0.0616)Val+(-0.3915)Met+(0.2110)Ile;0.842,0.871,0.798,0.788,0.798,0.817,0.809,0.803,(5.4641)+(-0.0339)Asn+(0.0053)Gly+(-0.1112)His+(0.0072)Lys+(0.1052)Phe+(-0.1157)Trp;0.842,0.867,0.793,0.785,0.743,0.842,0.886,0.814,(5.8791)+(-0.0092)Ala+(0.0065)Pro+(-0.0411)Val+(-0.0012)Lys+(0.

1644)Ile+(-0.1261)Trp;0.842,0.871,0.785,0.756,0.795,0.833,0.806,0.797,(7.5455)+(-0.0905)His+(0.0227)Thr+(-0.0461)Cit+(-0.0074)Arg+(0.0681)Ile+(-0.1364)Trp;0.842,0.864,0.789,0.768,0.768,0.835,0.855,0.807,(7.3466)+(-0.0554)His+(-0.0421)Cit+(-0.0298)Val+(0.0018)Lys+(0.1401)Ile+(-0.1175)Trp;0.842,0.870,0.774,0.756,0.803,0.809,0.733,0.775,(1.6431)+(0.0361)Ser+(-0.0011)Gln+(-0.1330)Cit+(0.0388)Orn+(0.0890)Phe+(-0.1919)Trp;0.842,0.871,0.821,0.809,0.831,0.817,0.835,0.823,(5.9296)+(-0.0896)His+(0.0080)Pro+(-0.0014)Val+(-0.1548)Met+(0.1286)Phe+(-0.1077)Trp;0.842,0.867,0.775,0.762,0.771,0.831,0.780,0.786,(-0.3162)+(0.0522)Ser+(-0.1213)Asn+(0.0097)Gln+(-0.1648)His+(-0.0240)Arg+(0.1153)Phe;0.842,0.865,0.783,0.770,0.741,0.868,0.842,0.805,(4.0951)+(-0.0009)Gly+(0.0322)Thr+(-0.0619)Val+(-0.3915)Met+(0.2069)Ile+(0.0032)Leu;0.842,0.871,0.761,0.718,0.754,0.864,0.814,0.787,(1.8392)+(0.0544)Ser+(-0.1253)His+(-0.0058)Ala+(0.0247)Tyr+(-0.2365)Met+(0.0932)Ile;0.842,0.872,0.779,0.757,0.733,0.874,0.863,0.807,(1.2757)+(0.0499)Ser+(-0.0067)Gly+(-0.0503)Val+(-0.3275)Met+(0.2092)Ile+(-0.0131)Leu;0.842,0.871,0.784,0.760,0.773,0.843,0.830,0.801,(5.8059)+(-0.0950)Cit+(-0.0001)Pro+(-0.0373)Val+(0.0433)Orn+(0.1419)Ile+(-0.1480)Trp;0.842,0.868,0.836,0.824,0.827,0.864,0.868,0.846,(4.3742)+(0.0074)Gln+(-0.0067)Ala+(-0.0814)Cit+(-0.1076)Met+(0.0844)Ile+(-0.1569)Trp;0.842,0.870,0.781,0.769,0.781,0.832,0.777,0.790,(1.9713)+(0.0472)Ser+(-0.0098)Arg+(-0.2188)Met+(-0.0009)Lys+(0.0794)Ile+(-0.1439)Trp;0.842,0.869,0.791,0.776,0.794,0.812,0.807,0.797,(5.2280)+(0.0045)Gly+(-0.1131)His+(0.0038)Pro+(0.0001)Val+(0.1049)Phe+(-0.1174)Trp;0.842,0.869,0.795,0.778,0.799,0.819,0.812,0.802,(5.5550)+(-0.0196)Asn+(0.0054)Gly+(-0.1135)His+(0.0109)Leu+(0.0998)Phe+(-0.1183)Trp;0.842,0.867,0.813,0.799,0.807,0.851,0.834,0.823,(7.0124)+(-0.0483)Asn+(0.0213)Thr+(-0.0082)Ala+(-0.0844)Cit+(0.0768)Ile+(-0.1628)Trp;0.841,0.867,0.774,0.748,0.780,0.832,0.784,0.786,(3.816

7)+(0.0319)Ser+(0.0057)Gln+(-0.1360)His+(0.0059)Thr+(0.0303)Leu+(-0.1215)Trp;0.841,0.872,0.817,0.803,0.827,0.825,0.830,0.821,(5.6271)+(-0.1061)His+(-0.1733)Met+(0.0176)Orn+(0.0133)Lys+(0.1224)Phe+(-0.1144)Trp;0.841,0.869,0.762,0.726,0.783,0.809,0.777,0.774,(3.5809)+(-0.1508)His+(0.0482)Thr+(-0.0127)Arg+(-0.3652)Met+(0.0503)Ile+(0.1225)Phe;0.841,0.871,0.769,0.751,0.729,0.871,0.827,0.795,(1.1249)+(0.0411)Ser+(0.0049)Pro+(-0.0513)Val+(-0.3487)Met+(0.2011)Ile+(-0.0104)Leu;0.841,0.870,0.781,0.767,0.782,0.833,0.774,0.789,(1.9353)+(0.0468)Ser+(-0.0112)Arg+(-0.2213)Met+(0.0049)Orn+(
0.0771)Ile+(-0.1446)Trp;0.841,0.867,0.802,0.788,0.807,0.853,0.793,0.810,(6.2289)+(0.0461)Ser+(-0.0577)Asn+(-0.0051)Gly+(-0.0848)His+(0.0317)Orn+(-0.0971)Trp;0.841,0.866,0.774,0.741,0.795,0.839,0.772,0.787,(6.6115)+(0.0064)Gly+(-0.0858)His+(-0.0838)Cit+(0.0430)Orn+(0.0651)Ile+(-0.1333)Trp;0.841,0.873,0.788,0.769,0.794,0.816,0.803,0.796,(5.1574)+(0.0040)Gly+(-0.1193)His+(0.0188)Orn+(0.0032)Lys+(0.0967)Phe+(-0.1172)Trp;0.841,0.870,0.765,0.742,0.729,0.870,0.825,0.791,(1.3872)+(0.0407)Ser+(-0.0015)Gln+(-0.0557)Val+(-0.3394)Met+(0.0172)Orn+(0.1985)Ile;0.841,0.867,0.808,0.808,0.819,0.853,0.754,0.809,(3.8802)+(0.0379)Ser+(0.0036)Gln+(-0.0721)Cit+(0.0142)Pro+(-0.1816)Met+(-0.1408)Trp;0.841,0.864,0.764,0.740,0.778,0.827,0.756,0.775,(5.0361)+(0.0382)Ser+(-0.1124)His+(0.0050)Thr+(0.0063)Pro+(0.0093)Val+(-0.1148)Trp;0.841,0.865,0.787,0.776,0.742,0.872,0.846,0.809,(3.4983)+(-0.0016)Gly+(0.0020)Gln+(0.0308)Thr+(-0.0606)Val+(-0.3982)Met+(0.2078)Ile;0.841,0.863,0.804,0.794,0.809,0.832,0.796,0.808,(5.7935)+(0.0102)Gln+(-0.1354)His+(0.0204)Thr+(-0.0231)Arg+(0.0257)Leu+(-0.1247)Trp;0.841,0.868,0.801,0.790,0.775,0.859,0.841,0.816,(2.5274)+(0.0407)Ser+(-0.1099)Asn+(0.0027)Gln+(-0.0071)Ala+(0.0716)Ile+(-0.1474)Trp;0.841,0.870,0.774,0.745,0.787,0.839,0.776,0.787,(5.1192)+(0.0448)Ser+(-0.0565)Asn+(-0.1077)His+(0.02

21)Orn+(0.0272)Leu+(-0.1096)Trp;0.841,0.863,0.784,0.777,0.780,0.840,0.771,0.792,(4.2333)+(0.0307)Ser+(0.0057)Gln+(-0.1155)His+(0.0085)Pro+(0.0023)Lys+(-0.1073)Trp;0.841,0.862,0.746,0.713,0.712,0.858,0.821,0.776,(2.4712)+(0.0386)Ser+(-0.1226)His+(-0.0089)Ala+(0.0044)Pro+(0.1182)Ile+(-0.0368)Leu;0.841,0.868,0.737,0.709,0.725,0.812,0.778,0.756,(0.9614)+(0.0573)Ser+(-0.1024)Asn+(-0.1449)His+(-0.0477)Tyr+(0.0424)Ile+(0.1113)Phe;0.841,0.867,0.794,0.785,0.750,0.838,0.878,0.813,(1.8302)+(-0.0058)Arg+(-0.0556)Val+(-0.3677)Met+(0.2203)Ile+(-0.0280)Leu+(0.1225)Phe;0.841,0.864,0.804,0.810,0.794,0.851,0.773,0.807,(4.7053)+(0.0436)Ser+(-0.0622)Asn+(-0.0037)Ala+(0.0155)Pro+(-0.1267)Met+(-0.1251)Trp;0.841,0.863,0.784,0.764,0.773,0.828,0.826,0.798,(6.5114)+(0.0032)Gly+(-0.0861)His+(0.0052)Lys+(0.1148)Ile+(-0.0372)Leu+(-0.1174)Trp;0.841,0.865,0.778,0.752,0.784,0.822,0.805,0.791,(7.6566)+(-0.1058)His+(0.0239)Thr+(-0.0151)Arg+(-0.0014)Pro+(0.0671)Ile+(-0.1292)Trp;0.841,0.868,0.813,0.802,0.845,0.822,0.772,0.810,(5.7503)+(-0.0951)Asn+(0.0197)Thr+(-0.1214)Cit+(0.0400)Orn+(0.0852)Phe+(-0.1753)Trp;0.841,0.872,0.809,0.792,0.805,0.824,0.853,0.818,(6.2639)+(-0.1044)His+(-0.0054)Ala+(0.0074)Pro+(0.0107)Leu+(0.0962)Phe+(-0.1202)Trp;0.841,0.871,0.812,0.815,0.841,0.795,0.753,0.801,(3.6620)+(-0.0011)Gly+(0.0445)Thr+(-0.0212)Arg+(-0.3310)Met+(0.1342)Phe+(-0.1624)Trp;0.841,0.873,0.803,0.805,0.828,0.776,0.767,0.794,(2.8306)+(0.0384)Thr+(0.0061)Pro+(-0.3612)Met+(-0.0118)Orn+(0.1341)Phe+(-0.1622)Trp;0.841,0.870,0.745,0.706,0.752,0.842,0.761,0.765,(2.5830)+(0.0459)Ser+(-0.1312)His+(0.0200)Thr+(-0.2723)Met+(-0.0041)Lys+(0.0879)Ile;0.841,0.868,0.783,0.771,0.774,0.817,0.806,0.792,(2.9990)+(0.0048)Gly+(-0.1049)Cit+(0.1521)Ile+(-0.0731)Leu+(0.0910)Phe+(-0.1658)Trp;0.841,0.868,0.783,0.769,0.757,0.839,0.834,0.799,(6.0221)+(0.0134)Thr+(-0.0704)Cit+(-0.0124)Tyr+(-0.0359)Val+(0.1481)Ile+(-0.1483)Trp;0.841,0.867,0.769,0.749,0.779,0.836,0.754,0.779,

(5.1677)+(0.0357)Ser+(-0.1045)His+(0.0080)Pro+(0.0016)Tyr+(0.0225)Orn+(-0.1057)Trp;0.841,0.868,0.798,0.781,0.789,0.840,0.829,0.810,(6.9613)+(0.0046)Gly+(-0.0679)His+(-0.1107)Met+(0.1295)Ile+(-0.0389)Leu+(-0.1024)Trp;0.841,0.869,0.808,0.784,0.804,0.844,0.857,0.822,(0.3972)+(0.0126)Gln+(-0.1542)His+(-0.2866)Met+(-0.0018)Lys+(0.0504)Ile+(0.1061)Phe;0.841,0.872,0.790,0.759,0.798,0.814,0.841,0.803,(6.0138)+(-0.1106)His+(-0.0080)Arg+(0.0164)Orn+(0.0455)Ile+(0.0723)Phe+(-0.1275)Trp;0.841,0.869,0.806,0.793,0.776,0.853,0.868,0.822,(7.2901)+(-0.0458)Asn+(-0.0567)Cit+(-0.0328)Val+(0.1655)Ile+(-0.0173)Leu+(-0.1236)Trp;0.841,0.868,0.806,0.793,0.775,0.852,0.873,0.823,(7.3670)+(-0.0511)Asn+(-0.0563)Cit+(0.0009)Arg+(-0.0382)Val+(0.1537)Ile+(-0.1246)Trp;0.841,0.866,0.796,0.784,0.762,0.844,0.860,0.813,(6.6452)+(-0.0861)Asn+(-0.0423)Val+(0.0254)Orn+(0.1601)Ile+(-0.0092)Leu+(-0.1124)Trp;0.841,0.865,0.800,0.780,0.793,0.831,0.842,0.812,(4.9336)+(0.0088)Gln+(-0.1226)His+(-0.0007)Pro+(0.0017)Tyr+(0.0651)Ile+(-0.1249)Trp;0.841,0.872,0.770,0.742,0.764,0.859,0.793,0.790,(0.9694)+(0.0452)Ser+(0.0080)Gln+(-0.1415)His+(-0.0169)Arg+(-0.2180)Met+(0.0813)Ile;0.841,0.868,0.782,0.774,0.746,0.804,0.860,0.796,(3.1521)+(-0.0034)Pro+(-0.0356)Val+(0.1662)Ile+(-0.0287)Leu+(0.0704)Phe+(-0.1510)Trp;0.841,0.877,0.775,0.777,0.771,0.780,0.771,0.775,(0.6656)+(0.0331)Ser+(0.0041)Pro+(-0.0057)Val+(-0.0110)Lys+(0.0892)Phe+(-0.1645)Trp;0.841,0.877,0.791,0.783,0.807,0.782,0.787,0.790,(2.3370)+(0.0355)Thr+(-0.0112)Tyr+(-0.3532)Met+(0.0504)Ile+(0.1099)Phe+(-0.1640)Trp;0.841,0.866,0.790,0.786,0.739,0.844,0.871,0.810,(5.5240)+(0.0102)Thr+(-0.0085)Ala+(-0.0027)Tyr+(-0.0413)Val+(0.1681)Ile+(-0.1348)Trp;0.841,0.863,0.763,0.740,0.753,0.830,0.796,0.780,(-0.1683)+(0.0499)Ser+(-0.1350)Asn+(0.0079)Gln+(-0.1663)His+(0.0024)Leu+(0.1064)Phe;0.841,0.866,0.800,0.798,0.817,0.848,0.737,0.800,(5.8772)+(0.0408)Ser+(-0.1058)Asn+(0.0096)Thr+(-0.0768)Cit+(0.0099)Pro+(-0.147

5)Trp;0.841,0.861,0.718,0.680,0.699,0.814,0.788,0.745,(0.0012)+(0.041
4)Ser+(-0.1554)His+(-0.0051)Pro+(0.1070)Ile+(-0.0492)Leu+(0.0871)Phe;
0.841,0.867,0.796,0.789,0.746,0.844,0.882,0.815,(5.8450)+(-0.0092)Ala
+(0.0060)Pro+(-0.0349)Val+(0.1780)Ile+(-0.0203)Leu+(-0.1254)Trp;0.841
,0.874,0.775,0.765,0.765,0.799,0.805,0.784,(0.9039)+(0.0342)Ser+(-0.0
263)Val+(-0.0141)Lys+(0.0479)Leu+(0.0876)Phe+(-0.1701)Trp;0.841,0.872
,0.792,0.772,0.760,0.852,0.871,0.814,(1.9812)+(-0.0643)Cit+(-0.0634)V
al+(-0.3570)Met+(0.0294)Orn+(0.1939)Ile+(0.1147)Phe;0.841,0.864,0.823
,0.821,0.822,0.844,0.815,0.826,(6.2140)+(-0.0662)Asn+(0.0102)Gln+(-0.
1170)His+(0.0180)Thr+(0.0076)Val+(-0.1141)Trp;0.841,0.864,0.769,0.747
,0.758,0.831,0.807,0.786,(-0.0694)+(0.0528)Ser+(-0.1329)Asn+(-0.0026)
Gly+(0.0081)Gln+(-0.1646)His+(0.1066)Phe;0.841,0.871,0.770,0.751,0.73
0,0.869,0.831,0.795,(0.9977)+(0.0410)Ser+(0.0054)Pro+(-0.0549)Val+(-0
.3635)Met+(0.0026)Lys+(0.1931)Ile;0.841,0.864,0.806,0.782,0.810,0.847
,0.832,0.818,(6.4703)+(-0.0109)Ala+(-0.1166)Cit+(0.0089)Pro+(0.0427)O
rn+(0.0639)Ile+(-0.1625)Trp;0.841,0.870,0.805,0.792,0.825,0.852,0.761
,0.808,(4.3701)+(0.0445)Ser+(-0.0696)Cit+(0.0136)Pro+(0.0287)Tyr+(-0.
2106)Met+(-0.1456)Trp;0.841,0.873,0.814,0.824,0.832,0.785,0.771,0.803
,(1.4116)+(0.0042)Gln+(0.0349)Thr+(-0.0082)Tyr+(-0.3528)Met+(0.1317)P
he+(-0.1615)Trp;0.841,0.866,0.832,0.819,0.816,0.863,0.874,0.843,(4.79
10)+(0.0072)Gln+(-0.0086)Ala+(-0.0936)Cit+(-0.0102)Lys+(0.0909)Ile+(-
0.1638)Trp;0.841,0.866,0.771,0.750,0.766,0.836,0.791,0.786,(-0.2066)+
(0.0510)Ser+(-0.1407)Asn+(0.0091)Gln+(-0.1564)His+(-0.0466)Cit+(0.114
0)Phe;0.841,0.872,0.803,0.783,0.812,0.818,0.827,0.810,(6.1097)+(-0.01
79)Asn+(-0.1066)His+(0.0029)Pro+(0.0217)Orn+(0.0910)Phe+(-0.1155)Trp;
0.841,0.867,0.791,0.778,0.768,0.854,0.830,0.807,(3.0222)+(0.0429)Ser+
(-0.0999)Asn+(-0.0071)Ala+(0.0063)Orn+(0.0708)Ile+(-0.1449)Trp;0.841,
0.866,0.799,0.800,0.802,0.833,0.768,0.801,(4.4084)+(0.0468)Ser+(-0.00

89)Gly+(0.0153)Thr+(0.0126)Pro+(-0.2345)Met+(-0.1432)Trp;0.841,0.863,0.773,0.747,0.773,0.823,0.807,0.787,(6.8832)+(0.0020)Gly+(-0.1101)His+(0.0172)Thr+(-0.0022)Pro+(0.0683)Ile+(-0.1268)Trp;0.841,0.869,0.824,0.813,0.801,0.870,0.869,0.838,(7.1616)+(-0.0068)Ala+(-0.0653)Cit+(-0.0611)Met+(0.1658)Ile+(-0.0595)Leu+(-0.1240)Trp;0.841,0.868,0.779,0.770,0.745,0.803,0.859,0.794,(3.1970)+(-0.0028)Pro+(-0.0443)Val+(0.0035)Orn+(0.1448)Ile+(0.0672)Phe+(-0.1561)Trp;0.841,0.866,0.780,0.757,0.783,0.838,0.791,0.792,(3.7132)+(0.0351)Ser+(0.0065)Gln+(-0.1316)His+(-0.0056)Lys+(0.0334)Leu+(-0.1157)Trp;0.841,0.867,0.775,0.750,0.781,0.835,0.787,0.788,(3.7005)+(0.0329)Ser+(0.0056)Gln+(-0.1341)His+(0.0122)Orn+(0.0285)Leu+(-0.1189)Trp;0.841,0.864,0.781,0.766,0.741,0.867,0.840,0.803,(4.0354)+(-0.0015)Gly+(0.0299)Thr+(-0.0616)Val+(-0.3871)Met+(0.0115)Orn+(0.2069)Ile;0.841,0.864,0.784,0.758,0.773,0.823,0.846,0.800,(2.9366)+(0.0422)Asn+(-0.1053)His+(-0.2857)Met+(0.1439)Ile+(-0.0678)Leu+(0.1226)Phe;0.841,0.870,0.792,0.766,0.795,0.822,0.833,0.804,(5.9295)+(-0.1108)His+(-0.0201)Val+(0.0257)Orn+(0.0397)Leu+(0.0861)Phe+(-0.1181)Trp;0.841,0.867,0.790,0.775,0.767,0.854,0.828,0.806,(3.2027)+(0.0413)Ser+(-0.1033)Asn+(0.0047)Thr+(-0.0072)Ala+(0.0723)Ile+(-0.1474)Trp;0.841,0.866,0.797,0.787,0.767,0.844,0.853,0.813,(5.0922)+(0.0036)Gln+(-0.0720)Cit+(-0.0069)Tyr+(-0.0340)Val+(0.1441)Ile+(-0.1489)Trp;0.841,0.866,0.826,0.813,0.832,0.851,0.828,0.831,(5.1198)+(-0.1027)Asn+(0.0072)Gln+(0.0159)Thr+(-0.0913)Cit+(0.0597)Ile+(-0.1768)Trp;0.841,0.870,0.799,0.785,0.812,0.871,0.756,0.806,(4.7963)+(0.0298)Ser+(0.0053)Gln+(-0.0967)His+(-0.0780)Cit+(0.0454)Orn+(-0.1119)Trp;0.841,0.866,0.776,0.750,0.774,0.821,0.815,0.790,(7.2725)+(-0.1047)His+(0.0200)Thr+(-0.0096)Tyr+(-0.0023)Lys+(0.0672)Ile+(-0.1245)Trp;0.841,0.869,0.779,0.764,0.803,0.810,0.747,0.781,(1.3479)+(0.0367)Ser+(-0.0053)Thr+(-0.1327)Cit+(0.0402)Orn+(0.0880)Phe+(-0.1891)Trp;0.841,0.867,0.817,0.817,

0.795,0.841,0.843,0.824,(4.0157)+(0.0054)Gln+(-0.2054)Met+(0.0064)Lys+(0.1564)Ile+(-0.0668)Leu+(-0.1359)Trp;0.841,0.871,0.796,0.780,0.819,0.872,0.736,0.802,(6.0215)+(0.0383)Ser+(-0.0743)His+(-0.0777)Cit+(-0.0768)Met+(0.0535)Orn+(-0.1017)Trp;0.841,0.867,0.818,0.820,0.824,0.858,0.771,0.818,(4.5407)+(0.0392)Ser+(-0.1182)Asn+(0.0055)Gln+(-0.0809)Cit+(0.0105)Pro+(-0.1469)Trp;0.841,0.864,0.753,0.720,0.767,0.821,0.760,0.767,(4.6918)+(0.0390)Ser+(-0.1215)His+(0.0072)Thr+(0.0046)Pro+(0.0284)Leu+(-0.1216)Trp;0.841,0.864,0.795,0.788,0.753,0.844,0.866,0.813,(6.3373)+(-0.0075)Ala+(-0.0216)Arg+(-0.0454)Val+(0.0290)Orn+(0.1731)Ile+(-0.1204)Trp;0.841,0.869,0.770,0.745,0.786,0.819,0.764,0.779,(3.0455)+(0.0375)Ser+(-0.0869)Cit+(-0.0114)Arg+(0.0025)Pro+(0.0679)Ile+(-0.1846)Trp;0.841,0.865,0.813,0.817,0.808,0.865,0.776,0.817,(4.5373)+(0.0312)Ser+(0.0077)Gln+(-0.1020)His+(0.0017)Ala+(-0.0945)Met+(-0.0947)Trp;0.841,0.864,0.772,0.746,0.771,0.820,0.806,0.786,(6.9317)+(0.0017)Gly+(-0.1077)His+(0.0176)Thr+(-0.0082)Tyr+(0.0667)Ile+(-0.1246)Trp;0.841,0.862,0.757,0.729,0.728,0.865,0.816,0.785,(2.7435)+(0.0409)Ser+(-0.1025)His+(-0.0090)Ala+(-0.0597)Cit+(0.1398)Ile+(-0.0441)Leu;0.841,0.867,0.761,0.729,0.782,0.838,

0.748,0.774,(5.2072)+(0.0397)Ser+(-0.1107)His+(0.0136)Thr+(-0.0503)Cit+(0.0324)Leu+(-0.1298)Trp;0.841,0.864,0.762,0.727,0.775,0.820,0.788,0.778,(4.6938)+(0.0479)Ser+(-0.0043)Gly+(-0.1134)His+(0.0063)Pro+(0.0265)Leu+(-0.1198)Trp;0.841,0.865,0.791,0.772,0.765,0.836,0.862,0.809,(7.5343)+(-0.0280)Asn+(-0.0611)His+(0.0055)Tyr+(-0.0322)Val+(0.1405)Ile+(-0.1065)Trp;0.841,0.872,0.799,0.786,0.759,0.846,0.886,0.819,(1.7867)+(-0.0441)Cit+(-0.0647)Val+(-0.3880)Met+(0.0065)Lys+(0.2007)Ile+(0.1239)Phe;0.841,0.864,0.779,0.769,0.742,0.868,0.816,0.799,(4.6935)+(0.0388)Thr+(-0.0209)Arg+(-0.0620)Val+(-0.3754)Met+(0.2127)Ile+(-0.0001)Leu;0.841,0.863,0.818,0.818,0.795,0.846,0.843,0.826,(4.1537)+(-0.000

0)Gly+(0.0058)Gln+(-0.1921)Met+(0.1541)Ile+(-0.0630)Leu+(-0.1318)Trp;0.841,0.868,0.819,0.808,0.793,0.868,0.869,0.834,(6.8433)+(-0.0081)Ala+(-0.0745)Cit+(0.0020)Arg+(0.1654)Ile+(-0.0599)Leu+(-0.1345)Trp;0.841,0.863,0.792,0.769,0.779,0.840,0.841,0.807,(7.1595)+(0.0040)Gly+(-0.0907)His+(-0.0061)Ala+(0.0050)Pro+(0.0728)Ile+(-0.1157)Trp;0.841,0.873,0.823,0.809,0.832,0.834,0.833,0.827,(6.0402)+(-0.0970)His+(-0.0014)Ala+(-0.1267)Met+(0.0242)Orn+(0.1197)Phe+(-0.1045)Trp;0.841,0.871,0.817,0.802,0.828,0.826,0.828,0.821,(5.7190)+(0.0166)Asn+(-0.1013)His+(-0.1477)Met+(0.0228)Orn+(0.1217)Phe+(-0.1058)Trp;0.841,0.864,0.790,0.774,0.763,0.832,0.856,0.806,(7.7635)+(-0.0176)Asn+(-0.0587)His+(-0.0079)Arg+(-0.0329)Val+(0.1444)Ile+(-0.1043)Trp;0.841,0.872,0.810,0.814,0.841,0.794,0.747,0.799,(3.4817)+(0.0445)Thr+(-0.0206)Arg+(-0.3343)Met+(-0.0039)Orn+(0.1372)Phe+(-0.1621)Trp;0.841,0.871,0.792,0.762,0.795,0.812,0.853,0.805,(5.8741)+(-0.0051)Asn+(-0.1083)His+(0.0001)Lys+(0.0485)Ile+(0.0766)Phe+(-0.1289)Trp;0.841,0.864,0.780,0.765,0.775,0.848,0.779,0.792,(5.4305)+(0.0395)Ser+(-0.0965)His+(-0.0044)Ala+(0.0126)Pro+(0.0142)Tyr+(-0.1061)Trp;0.841,0.873,0.765,0.730,0.761,0.856,0.800,0.787,(1.0275)+(0.0434)Ser+(0.0062)Gln+(-0.1416)His+(-0.2373)Met+(0.0042)Orn+(0.0799)Ile;0.841,0.863,0.804,0.787,0.812,0.836,0.807,0.810,(5.6137)+(0.0088)Gln+(-0.1214)His+(0.0165)Thr+(-0.0486)Cit+(0.0281)Leu+(-0.1328)Trp;0.841,0.866,0.828,0.836,0.823,0.863,0.795,0.829,(6.4904)+(-0.0015)Gly+(0.0093)Gln+(-0.1027)His+(0.0263)Thr+(-0.1400)Met+(-0.1032)Trp;0.841,0.872,0.837,0.838,0.849,0.830,0.815,0.833,(4.0001)+(-0.1291)Asn+(0.0067)Gln+(0.0228)Thr+(-0.1002)Cit+(0.0951)Phe+(-0.1760)Trp;0.841,0.871,0.818,0.801,0.829,0.820,0.841,0.822,(6.0144)+(-0.0947)His+(0.0067)Pro+(-0.1572)Met+(0.0093)Leu+(0.1196)Phe+(-0.1130)Trp;0.841,0.866,0.794,0.783,0.760,0.845,0.857,0.811,(6.5386)+(-0.0921)Asn+(0.0013)Gly+(-0.0453)Val+(0.0256)Orn+(0.1545)Ile+(-0.1122)Trp;0.841,0.87

2,0.790,0.780,0.793,0.812,0.799,0.796,(5.3750)+(0.0036)Gly+(-0.1140)His+(-0.0176)Tyr+(0.0225)Orn+(0.1057)Phe+(-0.1087)Trp;0.841,0.865,0.808,0.783,0.801,0.844,0.865,0.823,(8.0851)+(-0.0628)His+(-0.0077)Ala+(-0.0560)Cit+(0.0084)Pro+(0.0760)Ile+(-0.1259)Trp;0.841,0.867,0.785,0.769,0.761,0.840,0.837,0.802,(5.8666)+(0.0107)Thr+(-0.0716)Cit+(-0.0307)Val+(0.1607)Ile+(-0.0184)Leu+(-0.1490)Trp;0.841,0.871,0.802,0.779,0.811,0.819,0.828,0.809,(6.1878)+(-0.0140)Asn+(-0.1107)His+(0.0219)Orn+(0.0075)Leu+(0.0866)Phe+(-0.1186)Trp;0.841,0.870,0.811,0.816,0.834,0.793,0.764,0.802,(3.5849)+(-0.0427)Asn+(0.0395)Thr+(-0.0116)Tyr+(-0.2955)Met+(0.1318)Phe+(-0.1544)Trp;0.841,0.869,0.808,0.794,0.812,0.810,0.834,0.813,(6.1964)+(-0.0156)Asn+(-0.1008)His+(0.0046)Pro+(-0.0014)Val+(0.1020)Phe+(-0.1155)Trp;0.841,0.863,0.801,0.782,0.792,0.844,0.837,0.814,(5.8816)+(0.0052)Gly+(-0.0107)Ala+(-0.0949)Cit+(0.0101)Pro+(0.0802)Ile+(-0.1616)Trp;0.841,0.867,0.772,0.749,0.781,0.823,0.777,0.782,(3.0413)+(0.0352)Ser+(-0.0005)Thr+(-0.0904)Cit+(-0.0079)Tyr+(0.0697)Ile+(-0.1821)Trp;0.841,0.863,0.738,0.694,0.713,0.841,0.829,0.769,(0.5449)+(0.0507)Ser+(-0.0033)Gly+(-0.1602)His+(-0.0082)Ala+(0.0534)Ile+(0.0704)Phe;0.841,0.859,0.750,0.723,0.705,0.857,0.837,0.780,(2.3415)+(0.0332)Ser+(0.0019)Gln+(-0.1156)His+(-0.0072)Ala+(-0.0272)Val+(0.1304)Ile;0.841,0.867,0.794,0.783,0.758,0.850,0.858,0.812,(6.8778)+(-0.1101)Asn+(0.0199)Thr+(-0.0014)Pro+(-0.0449)Val+(0.1595)Ile+(-0.1197)Trp;0.841,0.864,0.784,0.773,0.740,0.869,0.841,0.806,(3.4206)+(0.0016)Gln+(0.0301)Thr+(-0.0610)Val+(-0.3985)Met+(0.2066)Ile+(0.0017)Leu;0.841,0.864,0.805,0.795,0.794,0.843,0.828,0.815,(4.3723)+(0.0047)Gln+(0.0029)Thr+(-0.0870)Cit+(0.1455)Ile+(-0.0587)Leu+(-0.1645)Trp;0.841,0.871,0.795,0.771,0.805,0.813,0.827,0.804,(5.9209)+(-0.1142)His+(0.0020)Pro+(0.0200)Orn+(0.0074)Leu+(0.0853)Phe+(-0.1212)Trp;0.841,0.870,0.804,0.786,0.813,0.816,0.826,0.810,(6.1103)+(-0.0237)Asn+(-0.1089)His+(0.0216

)Orn+(0.0049)Lys+(0.0907)Phe+(-0.1173)Trp;0.841,0.864,0.756,0.739,0.705,0.843,0.845,0.783,(-0.0378)+(0.0533)Ser+(-0.2373)Asn+(-0.0581)Val+(0.1836)Ile+(-0.0171)Leu+(0.0945)Phe;0.841,0.872,0.781,0.759,0.734,0.876,0.866,0.809,(1.1641)+(0.0499)Ser+(-0.0066)Gly+(-0.0543)Val+(-0.3402)Met+(0.0019)Lys+(0.1992)Ile;0.841,0.868,0.779,0.769,0.744,0.801,0.860,0.794,(3.1675)+(0.0003)Gly+(-0.0026)Pro+(-0.0441)Val+(0.1450)Ile+(0.0692)Phe+(-0.1569)Trp;0.841,0.867,0.768,0.750,0.727,0.870,0.827,0.793,(1.2285)+(0.0407)Ser+(-0.0003)Gln+(-0.0505)Val+(-0.3325)Met+(0.2090)Ile+(-0.0125)Leu;0.841,0.866,0.809,0.796,0.787,0.846,0.860,0.822,(7.7472)+(-0.0627)His+(-0.0056)Ala+(-0.0058)Arg+(0.1369)Ile+(-0.0443)Leu+(-0.1094)Trp;0.840,0.866,0.812,0.801,0.841,0.869,0.740,0.813,(4.6450)+(0.0366)Ser+(-0.1019)Cit+(0.0238)Tyr+(-0.1660)Met+(0.0481)Orn+(-0.1465)Trp;0.840,0.872,0.772,0.752,0.801,0.807,0.736,0.774,(1.3376)+(0.0351)Ser+(-0.1350)Cit+(0.0038)Pro+(0.0354)Orn+(0.0847)Phe+(-0.1965)Trp;0.840,0.863,0.786,0.776,0.784,0.839,0.775,0.794,(4.2308)+(0.0312)Ser+(0.0058)Gln+(-0.1171)His+(0.0078)Pro+(0.0086)Tyr+(-0.1085)Trp;0.840,0.867,0.820,0.808,0.827,0.819,0.837,0.823,(5.5060)+(0.0138)Asn+(-0.1062)His+(-0.1895)Met+(0.0151)Lys+(0.1336)Phe+(-0.1164)Trp;0.840,0.865,0.801,0.792,0.803,0.858,0.782,0.809,(6.9561)+(0.0442)Ser+(-0.0641)Asn+(-0.0058)Gly+(-0.0851)His+(0.0174)Thr+(-0.1033)Trp;0.840,0.865,0.805,0.800,0.830,0.865,0.726,0.805,(5.0659)+(0.0347)Ser+(-0.1041)Cit+(-0.1196)Met+(0.0529)Orn+(-0.0022)Lys+(-0.1392)Trp;0.840,0.864,0.785,0.794,0.756,0.789,0.819,0.790,(2.5152)+(0.0020)Gln+(-0.0462)Tyr+(0.1441)Ile+(-0.0768)Leu+(0.0885)Phe+(-0.1473)Trp;0.840,0.873,0.788,0.780,0.754,0.805,0.868,0.802,(4.0467)+(-0.0237)Arg+(-0.0467)Val+(-0.0006)Lys+(0.1523)Ile+(0.0800)Phe+(-0.1463)Trp;0.840,0.868,0.759,0.723,0.747,0.859,0.805,0.783,(2.4142)+(0.0515)Ser+(-0.0048)Asn+(-0.1211)His+(-0.0048)Ala+(-0.1926)Met+(0.0910)Ile;0.840,0.866,0.798,0.789,0.802,0.848,

0.775,0.803,(3.9525)+(0.0340)Ser+(0.0085)Gln+(-0.1291)His+(-0.0186)Ar
g+(0.0127)Val+(-0.1107)Trp;0.840,0.868,0.791,0.783,0.754,0.849,0.852,
0.809,(6.9779)+(-0.1075)Asn+(0.0206)Thr+(-0.0107)Tyr+(-0.0443)Val+(0.
1581)Ile+(-0.1166)Trp;0.840,0.870,0.797,0.793,0.803,0.870,0.744,0.802
,(6.2989)+(0.0322)Ser+(-0.0935)His+(0.0201)Thr+(-0.1384)Met+(0.0093)L
ys+(-0.1049)Trp;0.840,0.871,0.813,0.810,0.794,0.817,0.858,0.819,(4.28
85)+(-0.0627)Asn+(-0.0037)Pro+(0.1410)Ile+(-0.0734)Leu+(0.0744)Phe+(-
0.1420)Trp;0.840,0.866,0.791,0.778,0.771,0.852,0.822,0.806,(3.1675)+(
0.0447)Ser+(-0.0829)Asn+(-0.0068)Ala+(-0.0124)Arg+(0.0750)Ile+(-0.144
5)Trp;0.840,0.867,0.810,0.786,0.803,0.842,0.861,0.823,(0.2708)+(0.012
8)Gln+(-0.1549)His+(-0.2927)Met+(-0.0050)Orn+(0.0511)Ile+(0.1078)Phe;
0.840,0.865,0.787,0.775,0.743,0.873,0.846,0.809,(3.2504)+(0.0017)Gln+
(0.0293)Thr+(0.0115)Tyr+(-0.0618)Val+(-0.4148)Met+(0.2098)Ile;0.840,0
.863,0.798,0.793,0.749,0.846,0.879,0.817,(5.8651)+(0.0001)Gly+(-0.007
9)Ala+(-0.0339)Val+(0.1837)Ile+(-0.0225)Leu+(-0.1251)Trp;0.840,0.869,
0.779,0.751,0.808,0.851,0.739,0.787,(5.4177)+(0.0386)Ser+(-0.0941)His
+(-0.0812)Cit+(0.0097)Val+(0.0440)Orn+(-0.1232)Trp;0.840,0.873,0.789,
0.777,0.754,0.888,0.822,0.810,(1.1700)+(0.0419)Ser+(-0.0095)Ala+(-0.0
830)Cit+(-0.2191)Met+(0.1962)Ile+(-0.0750)Leu;0.840,0.868,0.785,0.763
,0.773,0.846,0.825,0.802,(6.2629)+(-0.0859)Cit+(-0.0132)Arg+(-0.0395)
Val+(0.0474)Orn+(0.1480)Ile+(-0.1421)Trp;0.840,0.864,0.777,0.758,0.78
1,0.835,0.779,0.788,(5.6233)+(0.0437)Ser+(-0.0058)Gly+(-0.0986)His+(0
.0073)Thr+(0.0090)Pro+(-0.1095)Trp;0.840,0.869,0.823,0.813,0.829,0.82
1,0.839,0.825,(5.6634)+(-0.1021)His+(-0.0020)Val+(-0.1813)Met+(0.0162
)Lys+(0.1345)Phe+(-0.1145)Trp;0.840,0.862,0.777,0.760,0.752,0.827,0.8
41,0.795,(6.7896)+(0.0025)Gly+(-0.0725)His+(-0.0282)Val+(0.1378)Ile+(
-0.0027)Leu+(-0.1094)Trp;0.840,0.869,0.776,0.763,0.794,0.799,0.757,0.
778,(1.4963)+(0.0417)Ser+(-0.1072)Cit+(0.0070)Pro+(-0.0131)Lys+(0.106

9)Phe+(-0.1790)Trp;0.840,0.867,0.788,0.772,0.792,0.844,0.783,0.798,(3
.7380)+(0.0355)Ser+(0.0081)Gln+(-0.1324)His+(-0.0183)Arg+(0.0305)Leu+
(-0.1157)Trp;0.840,0.867,0.786,0.777,0.801,0.812,0.762,0.788,(1.5767)
+(0.0410)Ser+(-0.1042)Cit+(0.0027)Val+(-0.0133)Lys+(0.1095)Phe+(-0.17
63)Trp;0.840,0.866,0.795,0.786,0.801,0.859,0.762,0.802,(6.5251)+(0.03
83)Ser+(-0.0661)Asn+(-0.0912)His+(0.0135)Thr+(0.0169)Tyr+(-0.1063)Trp
;0.840,0.865,0.783,0.769,0.743,0.870,0.844,0.806,(3.9336)+(-0.0004)Gl
y+(0.0310)Thr+(0.0099)Tyr+(-0.0619)Val+(-0.4034)Met+(0.2108)Ile;0.840
,0.864,0.773,0.747,0.783,0.824,0.783,0.784,(5.0750)+(0.0470)Ser+(-0.0
048)Gly+(-0.1059)His+(0.0076)Pro+(0.0086)Val+(-0.1144)Trp;0.840,0.866
,0.758,0.741,0.706,0.845,0.848,0.785,(0.2082)+(0.0549)Ser+(-0.2263)As
n+(-0.0614)Val+(-0.0077)Lys+(0.1724)Ile+(0.0939)Phe;0.840,0.865,0.782
,0.770,0.747,0.871,0.820,0.802,(4.5660)+(0.0385)Thr+(-0.0207)Arg+(0.0
101)Tyr+(-0.0632)Val+(-0.3908)Met+(0.2145)Ile;0.840,0.867,0.763,0.751
,0.732,0.836,0.806,0.781,(3.4053)+(0.0352)Ser+(-0.0288)Arg+(-0.0415)V
al+(-0.0031)Lys+(0.1624)Ile+(-0.1339)Trp;0.840,0.867,0.794,0.790,0.79
6,0.861,0.749,0.799,(6.8162)+(0.0364)Ser+(-0.0633)Asn+(-0.0874)His+(0
.0162)Thr+(-0.0001)Ala+(-0.1006)Trp;0.840,0.864,0.794,0.790,0.806,0.8
35,0.753,0.796,(8.1248)+(-0.0884)His+(0.0263)Thr+(0.0076)Pro+(-0.1414
)Met+(0.0249)Orn+(-0.1035)Trp;0.840,0.868,0.793,0.781,0.758,0.849,0.8
57,0.811,(6.8739)+(-0.1097)Asn+(0.0197)Thr+(-0.0448)Val+(-0.0006)Lys+
(0.1581)Ile+(-0.1195)Trp;0.840,0.868,0.777,0.756,0.791,0.825,0.770,0.
786,(2.6737)+(0.0348)Ser+(0.0019)Gln+(-0.0875)Cit+(-0.0127)Arg+(0.069
9)Ile+(-0.1861)Trp;0.840,0.867,0.771,0.748,0.786,0.822,0.764,0.780,(3
.0852)+(0.0367)Ser+(0.0014)Thr+(-0.0858)Cit+(-0.0113)Arg+(0.0702)Ile+
(-0.1840)Trp;0.840,0.864,0.800,0.796,0.749,0.848,0.886,0.819,(5.2232)
+(0.0022)Gln+(-0.0081)Ala+(-0
.0396)Val+(-0.0031)Lys+(0.1659)Ile+(-0.1297)Trp;0.840,0.866,0.790,0.7

70,0.769,0.835,0.856,0.808,(7.3931)+(-0.0517)His+(-0.0436)Cit+(-0.027
5)Val+(0.1472)Ile+(-0.0082)Leu+(-0.1161)Trp;0.840,0.869,0.801,0.790,0
.791,0.821,0.836,0.810,(4.1133)+(-0.0883)Cit+(-0.0091)Arg+(0.1513)Ile
+(-0.0746)Leu+(0.0916)Phe+(-0.1593)Trp;0.840,0.868,0.760,0.774,0.741,
0.767,0.759,0.760,(0.6416)+(0.0308)Ser+(0.0065)Pro+(-0.0453)Tyr+(-0.0
079)Val+(0.1061)Phe+(-0.1606)Trp;0.840,0.872,0.791,0.769,0.787,0.809,
0.847,0.803,(5.8824)+(-0.0013)Asn+(-0.1063)His+(-0.0233)Tyr+(0.0506)I
le+(0.0884)Phe+(-0.1221)Trp;0.840,0.867,0.795,0.786,0.751,0.835,0.881
,0.813,(1.5150)+(-0.0088)Arg+(-0.0674)Val+(-0.4032)Met+(0.0095)Lys+(0
.2035)Ile+(0.1215)Phe;0.840,0.866,0.797,0.776,0.793,0.828,0.837,0.809
,(4.9959)+(0.0083)Gln+(-0.1231)His+(-0.0017)Tyr+(0.0094)Orn+(0.0620)I
le+(-0.1238)Trp;0.840,0.871,0.808,0.793,0.809,0.829,0.835,0.816,(5.98
94)+(-0.1107)His+(-0.0036)Ala+(0.0225)Orn+(0.0044)Lys+(0.0967)Phe+(-0
.1159)Trp;0.840,0.862,0.776,0.758,0.751,0.825,0.839,0.793,(6.6819)+(0
.0024)Gly+(-0.0754)His+(-0.0289)Val+(0.0028)Lys+(0.1341)Ile+(-0.1115)
Trp;0.840,0.866,0.804,0.784,0.823,0.808,0.812,0.807,(5.1023)+(-0.0871
)Asn+(0.0220)Thr+(-0.0983)Cit+(0.0444)Ile+(0.0759)Phe+(-0.1865)Trp;0.
840,0.863,0.730,0.689,0.704,0.839,0.814,0.761,(0.3686)+(0.0461)Ser+(-
0.1607)His+(-0.0088)Ala+(0.0030)Pro+(0.0506)Ile+(0.0710)Phe;0.840,0.8
62,0.777,0.758,0.752,0.827,0.842,0.795,(6.7943)+(0.0025)Gly+(-0.0732)
His+(0.0004)Pro+(-0.0289)Val+(0.1354)Ile+(-0.1096)Trp;0.840,0.872,0.8
20,0.806,0.829,0.816,0.837,0.822,(5.8393)+(-0.0918)His+(0.0033)Arg+(0
.0076)Pro+(-0.1596)Met+(0.1270)Phe+(-0.1089)Trp;0.840,0.864,0.751,0.7
25,0.736,0.836,0.791,0.772,(1.3249)+(0.0583)Ser+(-0.1072)Asn+(-0.1417
)His+(-0.0068)Ala+(0.0092)Pro+(0.1114)Phe;0.840,0.869,0.794,0.781,0.7
52,0.838,0.882,0.813,(1.8748)+(-0.0048)Arg+(0.0032)Pro+(-0.0641)Val+(
-0.3872)Met+(0.1978)Ile+(0.1199)Phe;0.840,0.868,0.766,0.758,0.735,0.8
36,0.799,0.782,(3.3771)+(0.0355)Ser+(-0.0329)Arg+(-0.0329)Val+(0.1873

)Ile+(-0.0319)Leu+(-0.1325)Trp;0.840,0.866,0.790,0.767,0.786,0.825,0.834,0.803,(7.0040)+(-0.0844)His+(-0.0022)Pro+(0.0224)Orn+(0.1128)Ile+(-0.0373)Leu+(-0.1140)Trp;0.840,0.864,0.764,0.741,0.724,0.867,0.835,0.792,(2.6595)+(0.0423)Ser+(-0.1404)Asn+(0.0056)Gln+(-0.0984)His+(-0.0348)Val+(0.1382)Ile;0.840,0.869,0.798,0.780,0.805,0.812,0.824,0.805,(5.7661)+(-0.1127)His+(-0.0019)Val+(0.0219)Orn+(0.0037)Lys+(0.0939)Phe+(-0.1168)Trp;0.840,0.870,0.762,0.762,0.759,0.768,0.763,0.763,(0.9282)+(0.0318)Ser+(-0.0020)Gln+(0.0043)Pro+(-0.0084)Val+(0.0849)Phe+(-0.1691)Trp;0.840,0.863,0.757,0.723,0.734,0.858,0.822,0.784,(1.9602)+(0.0384)Ser+(0.0047)Gln+(-0.1452)His+(-0.0067)Ala+(-0.0116)Lys+(0.0746)Ile;0.840,0.861,0.828,0.835,0.825,0.857,0.795,0.828,(6.8236)+(-0.0619)Asn+(0.0111)Gln+(-0.1063)His+(0.0234)Thr+(-0.0185)Arg+(-0.1047)Trp;0.840,0.864,0.789,0.771,0.778,0.833,0.831,0.803,(6.9080)+(-0.0130)Asn+(0.0037)Gly+(-0.0790)His+(0.1155)Ile+(-0.0358)Leu+(-0.1120)Trp;0.840,0.863,0.765,0.741,0.777,0.827,0.761,0.776,(4.9070)+(0.0402)Ser+(-0.1103)His+(0.0071)Pro+(0.0092)Val+(0.0010)Lys+(-0.1136)Trp;0.840,0.867,0.776,0.755,0.785,0.825,0.779,0.786,(2.7995)+(0.0330)Ser+(0.0013)Gln+(-0.0926)Cit+(-0.0095)Tyr+(0.0691)Ile+(-0.1842)Trp;0.840,0.864,0.721,0.680,0.698,0.822,0.807,0.752,(0.7197)+(0.0450)Ser+(-0.1337)His+(-0.0290)Val+(-0.0179)Lys+(0.1129)Ile+(0.0876)Phe;0.840,0.870,0.792,0.762,0.793,0.813,0.853,0.805,(5.8423)+(-0.1096)His+(-0.0012)Pro+(-0.0002)Lys+(0.0503)Ile+(0.0771)Phe+(-0.1289)Trp;0.840,0.873,0.791,0.792,0.767,0.816,0.817,0.798,(0.9036)+(0.0346)Ser+(-0.0086)Ala+(0.0096)Pro+(-0.0104)Lys+(0.0906)Phe+(-0.1601)Trp;0.840,0.869,0.763,0.751,0.732,0.835,0.807,0.781,(3.3476)+(0.0346)Ser+(-0.0312)Arg+(0.0015)Pro+(-0.0424)Val+(0.1604)Ile+(-0.1367)Trp;0.840,0.865,0.790,0.763,0.793,0.855,0.810,0.805,(3.2842)+(0.0101)Gln+(-0.1377)His+(0.0276)Thr+(-0.0521)Cit+(-0.2766)Met+(0.0743)Ile;0.840,0.862,0.729,0.685,0.723,0.823,0.787,0.755,(-

0.0444)+(0.0448)Ser+(0.0043)Gln+(-0.1737)His+(-0.0198)Lys+(0.0464)Ile+(0.0797)Phe;0.840,0.871,0.801,0.783,0.813,0.868,0.773,0.809,(5.4708)+(0.0405)Ser+(-0.0926)His+(0.0336)Tyr+(-0.1303)Met+(0.0273)Orn+(-0.1038)Trp;0.840,0.868,0.811,0.785,0.810,0.849,0.857,0.825,(0.0772)+(0.0139)Gln+(-0.1471)His+(-0.0489)Cit+(-0.2869)Met+(0.0531)Ile+(0.1084)Phe;0.840,0.867,0.778,0.754,0.784,0.824,0.797,0.790,(3.1947)+(0.0400)Ser+(-0.0038)Gly+(-0.0845)Cit+(-0.0105)Tyr+(0.0682)Ile+(-0.1803)Trp;0.840,0.866,0.807,0.807,0.803,0.840,0.794,0.811,(4.7556)+(0.0548)Ser+(-0.0590)Asn+(-0.0074)Gly+(0.0133)Pro+(-0.1460)Met+(-0.1318)Trp;0.840,0.872,0.807,0.787,0.809,0.831,0.841,0.817,(6.2453)+(-0.1114)His+(-0.0040)Ala+(0.0226)Orn+(0.0111)Leu+(0.0898)Phe+(-0.1182)Trp;0.840,0.869,0.802,0.785,0.822,0.816,0.795,0.804,(2.9742)+(0.0078)Gly+(-0.0966)Cit+(-0.2177)Met+(0.0629)Ile+(0.1130)Phe+(-0.1636)Trp;0.840,0.865,0.777,0.754,0.781,0.820,0.800,0.789,(7.6902)+(-0.1039)His+(0.0244)Thr+(-0.0152)Arg+(-0.0089)Tyr+(0.0669)Ile+(-0.1262)Trp;0.840,0.863,0.803,0.786,0.840,0.827,0.753,0.802,(5.0737)+(0.0164)Thr+(-0.1372)Cit+(0.0482)Orn+(-0.0172)Lys+(0.0915)Phe+(-0.1788)Trp;0.840,0.859,0.742,0.711,0.697,0.851,0.837,0.774,(2.6006)+(0.0360)Ser+(-0.1087)His+(-0.0085)Ala+(0.0055)Pro+(-0.0291)Val+(0.1318)Ile;0.840,0.871,0.795,0.773,0.804,0.810,0.823,0.802,(5.7524)+(-0.1134)His+(0.0026)Pro+(0.0198)Orn+(0.0029)Lys+(0.0897)Phe+(-0.1197)Trp;0.840,0.866,0.787,0.773,0.820,0.845,0.713,0.788,(4.9422)+(0.0308)Ser+(-0.1190)Cit+(0.0071)Pro+(0.0513)Orn+(-0.0101)Lys+(-0.1611)Trp;0.840,0.871,0.769,0.748,0.731,0.871,0.828,0.795,(1.0300)+(0.0399)Ser+(0.0043)Pro+(-0.0553)Val+(-0.3570)Met+(0.0124)Orn+(0.1923)Ile;0.840,0.868,0.785,0.764,0.792,0.812,0.808,0.794,(5.2482)+(0.0048)Gly+(-0.1175)His+(0.0027)Pro+(0.0104)Leu+(0.0965)Phe+(-0.1221)Trp;0.840,0.869,0.769,0.748,0.734,0.828,0.853,0.791,(3.3133)+(0.0423)Ser+(-0.0084)Gly+(-0.0381)Val+(-0.0116)Lys+(0.1526)Ile+(-0.1357)Trp;0

.840,0.869,0.786,0.768,0.800,0.849,0.758,0.794,(5.2349)+(0.0418)Ser+(-0.1027)His+(0.0114)Val+(-0.0979)Met+(0.0247)Orn+(-0.1044)Trp;0.840,0.872,0.809,0.814,0.839,0.795,0.744,0.798,(3.4758)+(0.0438)Thr+(-0.0212)Arg+(-0.3323)Met+(-0.0005)Leu+(0.1355)Phe+(-0.1612)Trp;0.840,0.866,0.794,0.785,0.803,0.812,0.787,0.797,(1.7783)+(0.0457)Ser+(-0.0042)Gly+(-0.0951)Cit+(-0.0120)Lys+(0.1096)Phe+(-0.1729)Trp;0.840,0.863,0.748,0.716,0.716,0.855,0.819,0.777,(2.5619)+(0.0367)Ser+(-0.1260)His+(-0.0080)Ala+(0.0122)Orn+(0.1203)Ile+(-0.0380)Leu;0.840,0.873,0.756,0.747,0.745,0.780,0.785,0.764,(0.3279)+(0.0372)Ser+(-0.0375)Tyr+(-0.0170)Lys+(0.0537)Ile+(0.0826)Phe+(-0.1672)Trp;0.840,0.873,0.791,0.769,0.786,0.808,0.847,0.802,(5.8562)+(-0.1067)His+(0.0002)Pro+(-0.0235)Tyr+(0.0505)Ile+(0.0884)Phe+(-0.1223)Trp;0.840,0.869,0.795,0.770,0.813,0.858,0.776,0.804,(5.0818)+(0.0472)Ser+(-0.1030)His+(0.0362)Tyr+(0.0128)Val+(-0.1410)Met+(-0.1160)Trp;0.840,0.868,0.774,0.758,0.749,0.815,0.842,0.791,(0.3232)+(0.0315)Ser+(-0.0118)Ala+(0.0048)Pro+(0.0580)Ile+(0.0580)Phe+(-0.1779)Trp;0.840,0.867,0.789,0.774,0.793,0.840,0.781,0.797,(3.8714)+(0.0322)Ser+(0.0069)Gln+(-0.1292)His+(0.0129)Val+(-0.0017)Lys+(-0.1129)Trp;0.840,0.870,0.744,0.700,0.756,0.843,0.765,0.766,(2.2266)+(0.0468)Ser+(-0.1347)His+(0.0187)Thr+(0.0107)Tyr+(-0.2982)Met+(0.0855)Ile;0.840,0.866,0.787,0.772,0.792,0.839,0.776,0.795,(3.9797)+(0.0304)Ser+(0.0064)Gln+(-0.1310)His+(0.0040)Thr+(0.0121)Val+(-0.1156)Trp;0.840,0.867,0.798,0.783,0.826,0.850,0.738,0.799,(4.1022)+(0.0391)Ser+(-0.1040)Cit+(-0.1597)Met+(0.0446)Orn+(0.0200)Leu+(-0.1537)Trp;0.840,0.860,0.718,0.680,0.700,0.811,0.788,0.745,(-0.4876)+(0.0382)Ser+(0.0025)Gln+(-0.1636)His+(0.0936)Ile+(-0.0452)Leu+(0.0817)Phe;0.840,0.858,0.720,0.682,0.700,0.813,0.795,0.747,(-0.3756)+(0.0474)Ser+(-0.1466)His+(-0.0120)Thr+(0.1102)Ile+(-0.0542)Leu+(0.0889)Phe;0.840,0.864,0.817,0.816,0.795,0.846,0.841,0.825,(4.1523)+(0.0057)Gln+(-0.1929)Met+(0.

0030)Orn+(0.1532)Ile+(-0.0631)Leu+(-0.1317)Trp;0.840,0.867,0.756,0.719,0.770,0.826,0.770,0.771,(4.5305)+(0.0397)Ser+(-0.1200)His+(0.0048)Pro+(0.0161)Orn+(0.0259)Leu+(-0.1188)Trp;0.840,0.864,0.799,0.776,0.795,0.837,0.840,0.812,(7.2184)+(-0.0601)His+(-0.0476)Cit+(0.0044)Lys+(0.1244)Ile+(-0.0422)Leu+(-0.1242)Trp;0.840,0.873,0.764,0.758,0.754,0.772,0.794,0.769,(0.6867)+(0.0283)Ser+(0.0034)Pro+(-0.0269)Val+(0.0394)Leu+(0.0779)Phe+(-0.1805)Trp;0.840,0.866,0.774,0.757,0.786,0.844,0.746,0.783,(5.4183)+(0.0405)Ser+(-0.0880)His+(-0.0440)Cit+(0.0110)Pro+(0.0048)Lys+(-0.1164)Trp;0.840,0.868,0.792,0.762,0.796,0.811,0.848,0.804,(5.9791)+(0.0002)Asn+(-0.1073)His+(-0.0054)Arg+(0.0488)Ile+(0.0778)Phe+(-0.1286)Trp;0.840,0.865,0.784,0.769,0.744,0.869,0.845,0.807,(3.8567)+(0.0312)Thr+(0.0108)Tyr+(-0.0632)Val+(-0.4080)Met+(0.2083)Ile+(0.0039)Leu;0.840,0.865,0.781,0.768,0.739,0.867,0.841,0.804,(4.1107)+(-0.0009)Gly+(0.0315)Thr+(0.0019)Pro+(-0.0608)Val+(-0.3923)Met+(0.2065)Ile;0.840,0.864,0.817,0.817,0.795,0.845,0.843,0.825,(4.1526)+(0.0058)Gln+(0.0006)Pro+(-0.1937)Met+(0.1531)Ile+(-0.0628)Leu+(-0.1318)Trp;0.840,0.867,0.786,0.786,0.792,0.808,0.756,0.785,(1.5660)+(0.0416)Ser+(-0.0974)Cit+(-0.0299)Tyr+(-0.0103)Lys+(0.1263)Phe+(-0.1645)Trp;0.840,0.867,0.767,0.749,0.730,0.820,0.853,0.788,(2.9078)+(0.0390)Ser+(-0.0079)Gly+(-0.0030)Thr+(-0.0399)Val+(0.1477)Ile+(-0.1448)Trp;0.840,0.874,0.815,0.798,0.828,0.825,0.827,0.819,(5.8175)+(-0.0956)His+(0.0063)Pro+(-0.1527)Met+(0.0197)Orn+(0.1176)Phe+(-0.1077)Trp;0.840,0.871,0.817,0.798,0.829,0.830,0.836,0.823,(6.0518)+(-0.1016)His+(-0.1399)Met+(0.0215)Orn+(0.0101)Leu+(0.1119)Phe+(-0.1107)Trp;0.840,0.868,0.825,0.813,0.831,0.825,0.843,0.828,(5.7591)+(-0.1029)His+(-0.0010)Ala+(-0.1740)Met+(0.0156)Lys+(0.1324)Phe+(-0.1156)Trp;0.840,0.870,0.808,0.798,0.777,0.847,0.868,0.822,(6.7970)+(-0.0039)Arg+(-0.0394)Val+(-0.1714)Met+(0.1844)Ile+(-0.0132)Leu+(-0.1057)Trp;0.840,0.864,0.742,0.729,0.735,0.81

0,0.740,0.753,(1.8117)+(0.0521)Ser+(-0.1189)Asn+(-0.1464)His+(0.0167)Thr+(-0.0524)Tyr+(0.1363)Phe;0.840,0.868,0.763,0.724,0.750,0.860,0.819,0.789,(2.4004)+(0.0550)Ser+(-0.0027)Gly+(-0.1206)His+(-0.0049)Ala+(-0.1932)Met+(0.0903)Ile;0.840,0.867,0.827,0.836,0.827,0.864,0.777,0.826,(6.5941)+(0.0103)Gln+(-0.1043)His+(0.0298)Thr+(-0.0188)Arg+(-0.1290)Met+(-0.1012)Trp;0.840,0.871,0.779,0.758,0.737,0.876,0.854,0.806,(1.4525)+(0.0525)Ser+(-0.0063)Gly+(-0.0116)Arg+(-0.0533)Val+(-0.3125)Met+(0.1973)Ile;0.840,0.868,0.7

95,0.781,0.804,0.856,0.768,0.802,(5.9606)+(0.0400)Ser+(-0.0608)Asn+(-0.0910)His+(0.0140)Tyr+(0.0283)Orn+(-0.1008)Trp;0.840,0.865,0.797,0.790,0.815,0.843,0.743,0.798,(4.4555)+(0.0430)Ser+(-0.0719)Cit+(0.0135)Pro+(0.0048)Val+(-0.1727)Met+(-0.1441)Trp;0.840,0.863,0.762,0.740,0.754,0.829,0.790,0.778,(-0.0254)+(0.0488)Ser+(-0.1387)Asn+(0.0077)Gln+(-0.1663)His+(0.0036)Thr+(0.1085)Phe;0.840,0.873,0.820,0.806,0.832,0.828,0.829,0.824,(5.9397)+(-0.0968)His+(-0.0011)Val+(-0.1345)Met+(0.0241)Orn+(0.1204)Phe+(-0.1041)Trp;0.840,0.864,0.793,0.791,0.792,0.845,0.764,0.798,(4.4512)+(0.0331)Ser+(0.0077)Gln+(-0.1128)His+(-0.0209)Arg+(0.0101)Pro+(-0.1031)Trp;0.840,0.863,0.762,0.729,0.774,0.827,0.781,0.778,(5.0308)+(0.0437)Ser+(-0.0045)Gly+(-0.1202)His+(0.0108)Thr+(0.0296)Leu+(-0.1214)Trp;0.840,0.872,0.769,0.751,0.734,0.872,0.819,0.794,(1.2989)+(0.0444)Ser+(-0.0129)Arg+(0.0055)Pro+(-0.0535)Val+(-0.3310)Met+(0.1907)Ile;0.840,0.873,0.798,0.783,0.759,0.845,0.885,0.818,(2.1315)+(-0.0455)Cit+(-0.0030)Tyr+(-0.0622)Val+(-0.3618)Met+(0.1989)Ile+(0.1251)Phe;0.840,0.867,0.759,0.723,0.747,0.858,0.805,0.783,(2.4029)+(0.0516)Ser+(-0.1207)His+(-0.0048)Ala+(-0.1922)Met+(-0.0017)Lys+(0.0921)Ile;0.840,0.865,0.801,0.788,0.798,0.846,0.812,0.811,(4.4714)+(0.0039)Gln+(-0.1055)Cit+(0.0299)Orn+(0.1367)Ile+(-0.0579)Leu+(-0.1633)Trp;0.840,0.870,0.744,0.705,0.752,0.843,0.760,0.765,(2.5145)+(0.0456)Ser+(-0

.0058)Asn+(-0.1324)His+(0.0195)Thr+(-0.2766)Met+(0.0853)Ile;0.840,0.860,0.752,0.723,0.716,0.858,0.827,0.781,(2.4945)+(0.0406)Ser+(-0.1180)His+(-0.0056)Thr+(-0.0077)Ala+(0.1279)Ile+(-0.0398)Leu;0.839,0.863,0.782,0.764,0.756,0.825,0.850,0.799,(6.9671)+(-0.0708)His+(-0.0284)Val+(0.0033)Lys+(0.1386)Ile+(-0.0053)Leu+(-0.1116)Trp;0.839,0.862,0.781,0.762,0.756,0.825,0.850,0.798,(6.9956)+(-0.0718)His+(0.0007)Pro+(-0.0299)Val+(0.0030)Lys+(0.1344)Ile+(-0.1117)Trp;0.839,0.869,0.796,0.785,0.753,0.839,0.887,0.816,(1.8323)+(-0.0042)Arg+(0.0021)Tyr+(-0.0642)Val+(-0.3837)Met+(0.2014)Ile+(0.1198)Phe;0.839,0.868,0.763,0.752,0.732,0.835,0.807,0.782,(3.3775)+(0.0346)Ser+(-0.0001)Gln+(-0.0305)Arg+(-0.0422)Val+(0.1620)Ile+(-0.1364)Trp;0.839,0.869,0.807,0.793,0.776,0.853,0.875,0.824,(7.3391)+(-0.0519)Asn+(-0.0562)Cit+(0.0042)Tyr+(-0.0385)Val+(0.1538)Ile+(-0.1259)Trp;0.839,0.868,0.816,0.796,0.840,0.834,0.809,0.820,(6.1621)+(-0.0811)His+(-0.0803)Cit+(-0.1048)Met+(0.0448)Orn+(0.1217)Phe+(-0.1240)Trp;0.839,0.868,0.796,0.789,0.749,0.840,0.880,0.814,(6.5113)+(-0.0088)Ala+(-0.0158)Arg+(0.0078)Pro+(-0.0430)Val+(0.1694)Ile+(-0.1199)Trp;0.839,0.862,0.817,0.805,0.804,0.856,0.848,0.828,(4.2134)+(0.0033)Gly+(0.0053)Gln+(-0.0091)Ala+(-0.0950)Cit+(0.0859)Ile+(-0.1714)Trp;0.839,0.868,0.772,0.754,0.786,0.838,0.740,0.779,(5.5630)+(0.0385)Ser+(-0.0994)His+(-0.0169)Arg+(0.0092)Pro+(0.0268)Orn+(-0.1038)Trp;0.839,0.868,0.786,0.771,0.792,0.839,0.778,0.795,(3.9277)+(0.0307)Ser+(0.0061)Gln+(-0.1295)His+(0.0107)Val+(0.0135)Orn+(-0.1136)Trp;0.839,0.862,0.762,0.738,0.753,0.828,0.793,0.778,(-0.1740)+(0.0502)Ser+(-0.1360)Asn+(0.0077)Gln+(-0.1651)His+(0.0019)Pro+(0.1071)Phe;0.839,0.864,0.790,0.770,0.769,0.833,0.855,0.807,(7.5399)+(-0.0531)His+(-0.0404)Cit+(-0.0027)Arg+(-0.0304)Val+(0.1427)Ile+(-0.1153)Trp;0.839,0.870,0.818,0.823,0.835,0.806,0.778,0.811,(3.1264)+(0.0383)Thr+(-0.0034)Ala+(-0.3195)Met+(-0.0015)Lys+(0.1336)Phe+(-0.1573)Trp;0.839,0.862,0.80

7,0.794,0.766,0.872,0.878,0.828,(3.9950)+(0.0083)Gln+(-0.0837)His+(-0.0034)Ala+(-0.0362)Val+(-0.2232)Met+(0.1613)Ile;0.839,0.870,0.833,0.824,0.834,0.829,0.859,0.837,(3.1103)+(-0.0908)Asn+(0.0080)Gln+(-0.1009)Cit+(0.0487)Ile+(0.0701)Phe+(-0.1812)Trp;0.839,0.878,0.761,0.752,0.745,0.834,0.763,0.774,(-4.3021)+(0.0565)Ser+(-0.0330)Arg+(-0.3799)Met+(0.2048)Ile+(-0.1076)Leu+(0.1386)Phe;0.839,0.866,0.793,0.791,0.800,0.862,0.735,0.797,(7.0505)+(0.0373)Ser+(-0.0566)Asn+(-0.0873)His+(0.0193)Thr+(-0.0123)Arg+(-0.0993)Trp;0.839,0.865,0.788,0.768,0.810,0.827,0.769,0.793,(7.9604)+(-0.1084)His+(0.0329)Thr+(-0.1651)Met+(0.0206)Orn+(0.0289)Leu+(-0.1137)Trp;0.839,0.864,0.808,0.804,0.825,0.847,0.755,0.808,(8.8511)+(-0.0709)His+(0.0312)Thr+(-0.0390)Cit+(0.0094)Pro+(-0.1425)Met+(-0.1076)Trp;0.839,0.870,0.811,0.793,0.805,0.848,0.848,0.823,(7.7065)+(-0.0477)His+(-0.0432)Cit+(-0.0773)Met+(0.1331)Ile+(-0.0432)Leu+(-0.1113)Trp;0.839,0.868,0.803,0.788,0.825,0.832,0.776,0.805,(6.2595)+(0.0291)Thr+(-0.0739)Cit+(-0.0014)Arg+(-0.2113)Met+(0.0711)Ile+(-0.1572)Trp;0.839,0.867,0.797,0.794,0.812,0.845,0.742,0.798,(4.7616)+(0.0422)Ser+(-0.0675)Cit+(0.0001)Arg+(0.0148)Pro+(-0.1676)Met+(-0.1375)Trp;0.839,0.864,0.800,0.795,0.748,0.848,0.886,0.819,(5.1307)+(0.0018)Gln+(-0.0084)Ala+(0.0025)Tyr+(-0.0404)Val+(0.1657)Ile+(-0.1328)Trp;0.839,0.867,0.793,0.770,0.781,0.863,0.831,0.811,(3.5759)+(0.0088)Gln+(-0.1429)His+(0.0262)Thr+(-0.0041)Ala+(-0.2528)Met+(0.0765)Ile;0.839,0.861,0.804,0.792,0.801,0.837,0.819,0.812,(5.7072)+(0.0083)Gln+(-0.1309)His+(0.0157)Thr+(-0.0034)Ala+(0.0284)Leu+(-0.1233)Trp;0.839,0.869,0.819,0.822,0.835,0.804,0.784,0.812,(3.2309)+(-0.0011)Gly+(0.0385)Thr+(-0.0034)Ala+(-0.3207)Met+(0.1321)Phe+(-0.1588)Trp;0.839,0.865,0.732,0.687,0.728,0.826,0.790,0.758,(0.9042)+(0.0592)Ser+(-0.0908)Asn+(-0.1493)His+(-0.0132)Lys+(0.0453)Ile+(0.0932)Phe;0.839,0.869,0.743,0.703,0.753,0.840,0.761,0.764,(2.4363)+(0.0449)Ser+(-0.1347)His+(0.0184)Th

r+(-0.2795)Met+(0.0062)Orn+(0.0839)Ile;0.839,0.867,0.789,0.767,0.784,0.825,0.831,0.802,(7.0350)+(-0.0830)His+(-0.0082)Tyr+(0.0229)Orn+(0.1107)Ile+(-0.0367)Leu+(-0.1116)Trp;0.839,0.867,0.792,0.777,0.770,0.852,0.835,0.808,(2.9603)+(0.0435)Ser+(-0.0987)Asn+(-0.0073)Ala+(0.0051)Tyr+(0.0730)Ile+(-0.1469)Trp;0.839,0.866,0.805,0.799,0.813,0.845,0.774,0.808,(4.8695)+(0.0501)Ser+(-0.0057)Gly+(-0.0599)Cit+(0.0149)Pro+(-0.1710)Met+(-0.1372)Trp;0.839,0.862,0.769,0.733,0.758,0.848,0.828,0.792,(1.7905)+(0.0462)Ser+(-0.1010)Asn+(-0.0042)Gly+(0.0079)Gln+(-0.1513)His+(0.0547)Ile;0.839,0.867,0.797,0.786,0.763,0.846,0.861,0.814,(6.6492)+(-0.0941)Asn+(-0.0458)Val+(0.0255)Orn+(0.0027)Lys+(0.1534)Ile+(-0.1140)Trp;0.839,0.866,0.777,0.768,0.742,0.865,0.812,0.797,(4.6928)+(0.0386)Thr+(-0.0211)Arg+(0.0023)Pro+(-0.0621)Val+(-0.3793)Met+(0.2099)Ile;0.839,0.860,0.754,0.724,0.718,0.856,0.836,0.783,(3.7006)+(0.0524)Ser+(-0.1129)Asn+(-0.0042)Gly+(-0.0848)His+(-0.0379)Val+(0.1446)Ile;0.839,0.864,0.811,0.800,0.798,0.846,0.838,0.821,(4.5063)+(0.0057)Gln+(-0.0867)Cit+(-0.0052)Lys+(0.1469)Ile+(-0.0566)Leu+(-0.1589)Trp;0.839,0.862,0.765,0.733,0.758,0.853,0.800,0.786,(1.6817)+(0.0421)Ser+(-0.1082)Asn+(0.0089)Gln+(-0.1416)His+(-0.0516)Cit+(0.0601)Ile;0.839,0.872,0.797,0.803,0.817,0.775,0.757,0.788,(2.7523)+(0.0367)Thr+(0.0061)Pro+(-0.0134)Tyr+(-0.3441)Met+(0.1309)Phe+(-0.1574)Trp;0.839,0.863,0.797,0.779,0.785,0.830,0.844,0.810,(7.1280)+(-0.0160)Asn+(-0.0765)His+(0.0071)Lys+(0.1164)Ile+(-0.0412)Leu+(-0.1172)Trp;0.839,0.863,0.789,0.771,0.809,0.831,0.766,0.794,(7.9697)+(0.0019)Gly+(-0.1066)His+(0.0348)Thr+(-0.1697)Met+(0.0325)Leu+(-0.1121)Trp;0.839,0.868,0.799,0.782,0.801,0.844,0.805,0.808,(3.9050)+(0.0389)Ser+(-0.0053)Gly+(0.0071)Gln+(-0.1273)His+(0.0118)Val+(-0.1140)Trp;0.839,0.859,0.746,0.718,0.702,0.853,0.837,0.777,(2.6960)+(0.0353)Ser+(-0.1074)His+(-0.0073)Ala+(-0.0263)Val+(0.1412)Ile+(-0.0083)Leu;0.839,0.862,0.721,0.692,0.689,0.809,0.7

98,0.747,(0.6045)+(0.0384)Ser+(-0.1344)His+(-0.0444)Tyr+(-0.0275)Val+(0.1028)Ile+(0.0995)Phe;0.839,0.865,0.760,0.736,0.728,0.873,0.809,0.787,(3.3554)+(0.0436)Ser+(-0.1968)Asn+(-0.0840)Cit+(-0.0574)Val+(0.0504)Orn+(0.1712)Ile;0.839,0.864,0.796,0.769,0.791,0.840,0.845,0.811,(7.5281)+(0.0038)Asn+(-0.0949)His+(-0.0053)Ala+(0.0244)Orn+(0.0687)Ile+(-0.1174)Trp;0.839,0.864,0.780,0.772,0.744,0.866,0.813,0.799,(4.5206)+(0.0378)Thr+(-0.0230)Arg+(-0.0631)Val+(-0.3870)Met+(0.0051)Lys+(0.2129)Ile;0.839,0.863,0.821,0.823,0.815,0.847,0.811,0.824,(6.4805)+(-0.0752)Asn+(0.0099)Gln+(-0.1057)His+(0.0174)Thr+(0.0055)Pro+(-0.1073)Trp;0.839,0.869,0.809,0.813,0.839,0.793,0.745,0.797,(3.3784)+(0.0432)Thr+(-0.0225)Arg+(-0.3374)Met+(0.0027)Lys+(0.1340)Phe+(-0.1629)Trp;0.839,0.864,0.772,0.761,0.785,0.840,0.728,0.778,(5.9673)+(0.0373)Ser+(-0.0980)His+(0.0112)Thr+(-0.0177)Arg+(0.0096)Pro+(-0.1063)Trp;0.839,0.863,0.779,0.763,0.724,0.849,0.884,0.805,(2.6757)+(0.0050)Gln+(-0.1217)His+(-0.0073)Ala+(-0.0330)Val+(0.1200)Ile+(0.0663)Phe;0.839,0.863,0.794,0.780,0.752,0.846,0.879,0.814,(2.9050)+(-0.1209)Asn+(0.0089)Gln+(-0.1083)His+(-0.0392)Val+(0.1190)Ile+(0.0771)Phe;0.839,0.866,0.796,0.784,0.763,0.847,0.861,0.814,(6.6934)+(-0.0883)Asn+(-0.0013)Pro+(-0.0453)Val+(0.0271)Orn+(0.1554)Ile+(-0.1125)Trp;0.839,0.864,0.775,0.764,0.743,0.866,0.807,0.795,(4.5419)+(0.0364)Thr+(-0.0235)Arg+(-0.0632)Val+(-0.3710)Met+(0.0169)Orn+(0.2101)Ile;0.839,0.867,0.791,0.784,0.803,0.814,0.767,0.792,(1.3022)+(0.0385)Ser+(0.0015)Gln+(-0.1033)Cit+(-0.0127)Lys+(0.1106)Phe+(-0.1749)Trp;0.839,0.866,0.805,0.786,0.801,0.829,0.847,0.816,(4.0306)+(0.0165)Thr+(-0.0110)Ala+(-0.1040)Cit+(0.0693)Ile+(0.0817)Phe+(-0.1890)Trp;0.839,0.864,0.783,0.772,0.740,0.870,0.840,0.805,(3.4388)+(0.0016)Gln+(0.0297)Thr+(0.0018)Pro+(-0.0605)Val+(-0.4004)Met+(0.2053)Ile;0.839,0.864,0.798,0.792,0.793,0.856,0.781,0.805,(4.6481)+(0.0274)Ser+(0.0056)Gln+(-0.1123)His+(-0.0015)Ala+(0.0243)Orn+(-0.

1000)Trp;0.839,0.863,0.810,0.807,0.769,0.855,0.874,0.826,(5.5271)+(-0.1038)Asn+(0.0008)Gly+(0.0049)Gln+(-0.0415)Val+(0.1495)Ile+(-0.1179)Trp;0.839,0.870,0.798,0.768,0.804,0.820,0.849,0.810,(6.0035)+(-0.0872)His+(-0.0612)Cit+(-0.0032)Lys+(0.0548)Ile+(0.0908)Phe+(-0.1403)Trp;0.839,0.868,0.799,0.787,0.787,0.820,0.839,0.808,(3.8329)+(-0.0938)Cit+(-0.0022)Pro+(0.1515)Ile+(-0.0732)Leu+(0.0895)Phe+(-0.1618)Trp;0.839,0.864,0.792,0.776,0.740,0.853,0.898,0.817,(4.9642)+(-0.0739)Asn+(-0.0770)His+(-0.0066)Ala+(-0.0446)Val+(0.1471)Ile+(0.0823)Phe;0.839,0.861,0.778,0.761,0.755,0.828,0.835,0.795,(7.1827)+(0.0030)Gly+(-0.0677)His+(-0.0112)Arg+(-0.0309)Val+(0.1425)Ile+(-0.1067)Trp;0.839,0.860,0.798,0.784,0.801,0.827,0.807,0.805,(5.6652)+(0.0085)Gln+(-0.1337)His+(0.0161)Thr+(-0.0051)Lys+(0.0281)Leu+(-0.1232)Trp;0.839,0.873,0.788,0.780,0.754,0.805,0.868,0.802,(4.0347)+(-0.0241)Arg+(-0.0001)Pro+(-0.0468)Val+(0.1523)Ile+(0.0797)Phe+(-0.1466)Trp;0.839,0.864,0.782,0.770,0.740,0.868,0.838,0.804,(3.4756)+(0.0012)Gln+(0.0286)Thr+(-0.0610)Val+(-0.3938)Met+(0.0080)Orn+(0.2064)Ile;0.839,0.863,0.798,0.793,0.749,0.846,0.879,0.817,(5.8789)+(-0.0079)Ala+(-0.0339)Val+(0.0001)Lys+(0.1837)Ile+(-0.0226)Leu+(-0.1251)Trp;0.839,0.862,0.771,0.750,0.788,0.805,0.764,0.777,(3.5463)+(-0.1375)His+(0.0425)Thr+(0.0061)Pro+(-0.0082)Val+(-0.3338)Met+(0.1523)Phe;0.839,0.859,0.804,0.797,0.806,0.826,0.801,0.808,(5.5395)+(0.0086)Gln+(-0.1273)His+(0.0115)Thr+(0.0033)Pro+(0.0082)Val+(-0.1188)Trp;0.839,0.871,0.743,0.707,0.755,0.844,0.743,0.762,(2.7800)+(0.0471)Ser+(-0.1313)His+(0.0234)Thr+(-0.0156)Arg+(-0.2728)Met+(0.0866)Ile;0.839,0.863,0.776,0.752,0.774,0.820,0.814,0.790,(7.2152)+(-0.1065)His+(0.0196)Thr+(-0.0016)Pro+(-0.0091)Tyr+(0.0677)Ile+(-0.1254)Trp;0.839,0.862,0.734,0.693,0.709,0.840,0.818,0.765,(0.3205)+(0.0478)Ser+(-0.1589)His+(-0.0041)Thr+(-0.0081)Ala+(0.0540)Ile+(0.0731)Phe;0.839,0.870,0.807,0.795,0.800,

0.821,0.847,0.816,(6.0059)+(-0.1052)His+(-0.0054)Ala+(0.0081)Pro+(0.0057)Lys+(0.1015)Phe+(-0.1194)Trp;0.839,0.874,0.782,0.787,0.779,0.785,0.776,0.782,(0.7209)+(0.0331)Ser+(-0.0001)Thr+(-0.0045)Val+(-0.0105)Lys+(0.0909)Phe+(-0.1633)Trp;0.839,0.868,0.807,0.786,0.799,0.840,0.856,0.821,(0.4579)+(0.0124)Gln+(-0.1534)His+(-0.0118)Tyr+(-0.2731)Met+(0.0497)Ile+(0.1089)Phe;0.839,0.865,0.801,0.794,0.770,0.846,0.854,0.816,(5.0742)+(0.0045)Gln+(-0.0646)Cit+(-0.0129)Arg+(-0.0357)Val+(0.1480)Ile+(-0.1473)Trp;0.839,0.865,0.777,0.751,0.791,0.843,0.771,0.789,(4.7273)+(0.0484)Ser+(-0.1035)His+(-0.0004)Ala+(-0.1195)Met+(0.0375)Leu+(-0.1043)Trp;0.839,0.863,0.793,0.787,0.791,0.850,0.772,0.800,(4.5221)+(0.0275)Ser+(0.0055)Gln+(-0.1151)His+(0.0223)Orn+(0.0009)Lys+(-0.1021)Trp;0.839,0.864,0.762,0.739,0.754,0.829,0.793,0.779,(-0.1111)+(0.0494)Ser+(-0.1352)Asn+(0.0075)Gln+(-0.1653)His+(0.0068)Orn+(0.1067)Phe;0.839,0.863,0.814,0.807,0.790,0.852,0.856,0.826,(6.2048)+(-0.0061)Ala+(-0.1239)Met+(0.0147)Orn+(0.1604)Ile+(-0.0638)Leu+(-0.1210)Trp;0.839,0.874,0.758,0.746,0.730,0.827,0.801,0.776,(-4.7408)+(0.0512)Ser+(-0.4204)Met+(-0.0194)Orn+(0.1936)Ile+(-0.0983)Leu+(0.1351)Phe;0.839,0.865,0.780,0.767,0.738,0.868,0.836,0.802,(3.9801)+(0.0314)Thr+(0.0020)Pro+(-0.0619)Val+(-0.3961)Met+(0.2037)Ile+(0.0038)Leu;0.839,0.869,0.786,0.771,0.789,0.810,0.805,0.794,(5.0857)+(0.0044)Gly+(-0.1162)His+(0.0035)Pro+(0.0041)Lys+(0.1020)Phe+(-0.1201)Trp;0.839,0.864,0.778,0.784,0.755,0.780,0.810,0.782,(3.0445)+(0.0055)Thr+(-0.0494)Tyr+(0.1419)Ile+(-0.0756)Leu+(0.0909)Phe+(-0.1466)Trp;0.839,0.862,0.815,0.811,0.781,0.855,0.864,0.828,(6.2514)+(-0.0350)Asn+(0.0016)Gly+(-0.0074)Ala+(0.1582)Ile+(-0.0649)Leu+(-0.1274)Trp;0.839,0.868,0.806,0.800,0.810,0.870,0.765,0.811,(6.7961)+(0.0408)Ser+(-0.0063)Gly+(-0.0848)His+(0.0238)Thr+(-0.1232)Met+(-0.1025)Trp;0.839,0.863,0.811,0.809,0.771,0.854,0.871,0.826,(5.4980)+(-0.0992)Asn+(0.0051)Gln+(-0.0363)Val+(0.1599)Ile+(-0

.0161)Leu+(-0.1178)Trp;0.839,0.862,0.791,0.800,0.788,0.846,0.736,0.793,(4.2448)+(0.0346)Ser+(0.0123)Thr+(-0.0041)Ala+(0.0149)Pro+(-0.2076)Met+(-0.1353)Trp;0.839,0.869,0.802,0.794,0.795,0.828,0.819,0.809,(5.3395)+(0.0045)Gly+(-0.1137)His+(-0.0032)Ala+(0.0060)Lys+(0.1102)Phe+(-0.1162)Trp;0.839,0.863,0.799,0.797,0.810,0.843,0.750,0.800,(5.4707)+(0.0437)Ser+(-0.1002)Asn+(-0.0742)Cit+(0.0110)Pro+(0.0036)Lys+(-0.1464)Trp;0.839,0.865,0.776,0.753,0.777,0.833,0.791,0.789,(3.8106)+(0.0339)Ser+(0.0058)Gln+(-0.1292)His+(-0.0108)Val+(0.0471)Leu+(-0.1169)Trp;0.839,0.870,0.796,0.766,0.802,0.817,0.849,0.808,(5.9133)+(-0.0012)Asn+(-0.0898)His+(-0.0596)Cit+(0.0528)Ile+(0.0889)Phe+(-0.1418)Trp;0.839,0.865,0.826,0.816,0.831,0.829,0.839,0.829,(5.9163)+(0.0202)Asn+(-0.0960)His+(-0.0008)Ala+(-0.1433)Met+(0.1336)Phe+(-0.1065)Trp;0.839,0.865,0.783,0.769,0.742,0.870,0.842,0.806,(3.8908)+(0.0305)Thr+(0.0015)Pro+(0.0097)Tyr+(-0.0618)Val+(-0.4061)Met+(0.2086)Ile;0.839,0.867,0.788,0.771,0.794,0.839,0.784,0.797,(3.7537)+(0.0322)Ser+(0.0067)Gln+(-0.1328)His+(0.0103)Tyr+(0.0118)Val+(-0.1178)Trp;0.839,0.861,0.756,0.743,0.741,0.824,0.772,0.770,(1.5987)+(0.0567)Ser+(-0.0990)Asn+(-0.1377)His+(-0.0023)Ala+(-0.0369)Tyr+(0.1340)Phe;0.839,0.864,0.775,0.752,0.798,0.846,0.735,0.783,(5.6059)+(0.0389)Ser+(-0.1034)His+(0.0119)Thr+(-0.0517)Cit+(0.0129)Val+(-0.1230)Trp;0.839,0.865,0.801,0.779,0.796,0.840,0.842,0.814,(7.4649)+(-0.0009)Asn+(-0.0562)His+(-0.0487)Cit+(0.1248)Ile+(-0.0406)Leu+(-0.1216)Trp;0.839,0.864,0.766,0.741,0.779,0.827,0.762,0.777,(4.9024)+(0.0405)Ser+(-0.1109)His+(0.0068)Pro+(0.0044)Tyr+(0.0092)Val+(-0.1145)Trp;0.839,0.863,0.802,0.800,0.803,0.864,0.758,0.806,(5.0469)+(0.0278)Ser+(0.0062)Gln+(-0.1031)His+(0.0108)Thr+(-0.0447)Cit+(-0.1083)Trp;0.839,0.870,0.796,0.765,0.802,0.817,0.849,0.808,(5.8966)+(-0.0902)His+(-0.0596)Cit+(-0.0001)Pro+(0.0530)Ile+(0.0889)Phe+(-0.1419)Trp;0.839,0.870,0.818,0.823,0.835,0.801,0.780,0.810,(3.0916)+(

0.0393)Thr+(-0.0032)Ala+(-0.3261)Met+(-0.0067)Orn+(0.1371)Phe+(-0.159
4)Trp;0.839,0.869,0.811,0.813,0.835,0.787,0.772,0.802,(3.1405)+(-0.00
13)Gly+(0.0382)Thr+(-0.3362)Met+(-0.0016)Lys+(0.1293)Phe+(-0.1602)Trp
;0.839,0.868,0.812,0.815,0.837,0.782,0.772,0.802,(3.1016)+(-0.0011)Gl
y+(0.0396)Thr+(-0.3430)Met+(-0.0085)Orn+(0.1342)Phe+(-0.1626)Trp;0.83
9,0.872,0.755,0.733,0.754,0.781,0.796,0.766,(0.0614)+(0.0384)Ser+(-0.
0037)Thr+(-0.0181)Lys+(0.0540)Ile+(0.0625)Phe+(-0.1751)Trp;0.839,0.86
8,0.794,0.783,0.803,0.862,0.754,0.800,(5.7429)+(0.0370)Ser+(-0.0903)H
is+(0.0003)Ala+(-0.0821)Met+(0.0326)Orn+(-0.0937)Trp;0.839,0.867,0.78
1,0.756,0.794,0.845,0.773,0.792,(4.9182)+(0.0497)Ser+(-0.0205)Asn+(-0
.1004)His+(-0.1064)Met+(0.0364)Leu+(-0.1042)Trp;0.839,0.862,0.804,0.8
06,0.807,0.843,0.766,0.805,(8.6388)+(-0.0793)His+(0.0296)Thr+(-0.0023
)Ala+(0.0108)Pro+(-0.1374)Met+(-0.1029)Trp;0.839,0.863,0.777,0.757,0.
780,0.833,0.784,0.789,(5.3262)+(0.0455)Ser+(-0.0053)Gly+(-0.0978)His+
(0.0099)Pro+(0.0034)Lys+(-0.1092)Trp;0.839,0.868,0.766,0.749,0.727,0.
822,0.850,0.787,(2.9071)+(0.0377)Ser+(-0.0080)Gly+(-0.0339)Val+(0.164
1)Ile+(-0.0214)Leu+(-0.1439)Trp;0.839,0.862,0.815,0.809,0.786,0.850,0
.864,0.827,(6.3284)+(-0.0370)Asn+(-0.0076)Ala+(0.0133)Orn+(0.1537)Ile
+(-0.0652)Leu+(-0.1276)Trp;0.839,0.861,0.807,0.799,0.827,0.864,0.744,
0.809,(5.5496)+(0.0296)Ser+(-0.0045)Ala+(-0.1179)Cit+(0.0603)Orn+(-0.
0076)Lys+(-0.1441)Trp;0.839,0.869,0.820,0.806,0.796,0.867,0.873,0.835
,(6.7738)+(-0.0085)Ala+(-0.0753)Cit+(0.0110)Tyr+(0.1656)Ile+(-0.0603)
Leu+(-0.1393)Trp;0.839,0.866,0.817,0.812,0.791,0.851,0.861,0.829,(6.0
410)+(-0.0058)Ala+(-0.1418)Met+(0.0094)Lys+(0.1678)Ile+(-0.0693)Leu+(
-0.1263)Trp;0.839,0.863,0.791,0.784,0.791,0.848,0.767,0.797,(4.6501)+
(0.0264)Ser+(0.0053)Gln+(-0.1159)His+(0.0034)Thr+(0.0213)Orn+(-0.1030
)Trp;0.839,0.859,0.813,0.810,0.807,0.843,0.811,0.818,(5.7896)+(0.0088
)Gln+(-0.1259)His+(0.0139)Thr+(-0.0029)Ala+(0.0107)Val+(-0.1175)Trp;0

.839,0.864,0.793,0.775,0.813,0.827,0.775,0.797,(8.0578)+(-0.1062)His+(0.0349)Thr+(-0.1802)Met+(0.0050)Lys+(0.0300)Leu+(-0.1147)Trp;0.839,0.864,0.779,0.766,0.740,0.866,0.835,0.802,(3.8559)+(0.0295)Thr+(-0.0621)Val+(-0.3898)Met+(0.0100)Orn+(0.2052)Ile+(0.0026)Leu;0.839,0.872,0.773,0.773,0.774,0.777,0.771,0.773,(0.4727)+(0.0351)Ser+(-0.0027)Thr+(0.0033)Pro+(-0.0121)Lys+(0.0824)Phe+(-0.1679)Trp;0.839,0.867,0.793,0.775,0.812,0.870,0.745,0.801,(6.1099)+(0.0351)Ser+(-0.0782)His+(-0.0026)Ala+(-0.0840)Cit+(0.0549)Orn+(-0.1074)Trp;0.839,0.862,0.768,0.752,0.774,0.832,0.751,0.777,(5.2848)+(0.0359)Ser+(-0.1032)His+(0.0046)Thr+(0.0088)Pro+(0.0035)Lys+(-0.1087)Trp;0.839,0.862,0.799,0.792,0.814,0.831,0.763,0.800,(8.3763)+(-0.0907)His+(0.0304)Thr+(0.0073)Pro+(0.0067)Val+(-0.1485)Met+(-0.1098)Trp;0.838,0.865,0.800,0.772,0.825,0.823,0.807,0.807,(5.0224)+(-0.1324)Cit+(0.0447)Orn+(-0.0168)Lys+(0.0507)Ile+(0.0710)Phe+(-0.1771)Trp;0.838,0.863,0.786,0.774,0.739,0.851,0.867,0.808,(2.0491)+(0.0067)Gln+(-0.1366)His+(-0.0077)Ala+(0.1147)Ile+(-0.0535)Leu+(0.0722)Phe;0.838,0.869,0.828,0.812,0.828,0.836,0.865,0.835,(4.5555)+(-0.0069)Ala+(-0.0838)Cit+(-0.1407)Met+(0.0683)Ile+(0.1046)Phe+(-0.1600)Trp;0.838,0.865,0.787,0.768,0.765,0.854,0.834,0.805,(6.1125)+(-0.1020)His+(0.0271)Thr+(-0.0051)Ala+(-0.2146)Met+(0.1336)Ile+(-0.0410)Leu;0.838,0.869,0.811,0.814,0.836,0.786,0.767,0.801,(2.9532)+(0.0392)Thr+(-0.3432)Met+(-0.0086)Orn+(-0.0007)Lys+(0.1354)Phe+(-0.1615)Trp;0.838,0.865,0.788,0.763,0.780,0.830,0.844,0.804,(3.5069)+(-0.0994)His+(-0.2420)Met+(0.0106)Orn+(0.1359)Ile+(-0.0671)Leu+(0.1154)Phe;0.838,0.862,0.797,0.773,0.786,0.835,0.858,0.813,(7.6006)+(0.0087)Asn+(-0.0872)His+(-0.0063)Ala+(0.0054)Pro+(0.0709)Ile+(-0.1182)Trp;0.838,0.872,0.757,0.723,0.748,0.854,0.794,0.780,(2.3393)+(0.0482)Ser+(-0.1098)His+(-0.2252)Met+(0.0018)Lys+(0.1357)Ile+(-0.0385)Leu;0.838,0.863,0.797,0.790,0.746,0.844,0.885,0.816,(5.8959)+(0.0002)Gly+(-0.0078)Ala+(

-0.0407)Val+(-0.0013)Lys+(0.1688)Ile+(-0.1261)Trp;0.838,0.861,0.779,0.777,0.731,0.826,0.849,0.796,(4.0651)+(-0.1022)His+(-0.0062)Ala+(-0.0475)Tyr+(0.1347)Ile+(-0.0651)Leu+(0.1034)Phe;0.838,0.872,0.823,0.808,0.838,0.822,0.834,0.825,(6.2082)+(-0.0788)His+(-0.0483)Cit+(0.0082)Pro+(-0.1353)Met+(0.1330)Phe+(-0.1191)Trp;0.838,0.874,0.783,0.788,0.779,0.787,0.774,0.782,(0.7418)+(0.0325)Ser+(-0.0051)Val+(0.0057)Orn+(-0.0111)Lys+(0.0887)Phe+(-0.1623)Trp;0.838,0.866,0.790,0.782,0.758,0.849,0.836,0.806,(7.3488)+(-0.0894)Asn+(0.0269)Thr+(-0.0249)Arg+(-0.0481)Val+(0.1696)Ile+(-0.1205)Trp;0.838,0.866,0.783,0.768,0.759,0.838,0.836,0.800,(5.7511)+(0.0033)Gly+(-0.0721)Cit+(0.0016)Pro+(-0.0357)Val+(0.1480)Ile+(-0.1451)Trp;0.838,0.863,0.793,0.775,0.812,0.830,0.776,0.798,(8.1761)+(0.0021)Asn+(-0.1047)His+(0.0360)Thr+(-0.1706)Met+(0.0317)Leu+(-0.1134)Trp;0.838,0.861,0.797,0.802,0.796,0.832,0.757,0.797,(4.2953)+(0.0432)Ser+(-0.0694)Asn+(0.0130)Pro+(-0.1612)Met+(0.0071)Lys+(-0.1366)Trp;0.838,0.872,0.820,0.804,0.833,0.828,0.830,0.824,(5.9485)+(-0.0979)His+(0.0005)Arg+(-0.1356)Met+(0.0233)Orn+(0.1191)Phe+(-0.1053)Trp;0.838,0.862,0.787,0.772,0.768,0.821,0.843,0.801,(3.6912)+(-0.0947)His+(-0.0248)Tyr+(-0.2101)Met+(0.1413)Ile+(-0.0684)Leu+(0.1267)Phe;0.838,0.857,0.745,0.717,0.701,0.853,0.836,0.777,(2.6943)+(0.0361)Ser+(-0.1083)His+(-0.0013)Thr+(-0.0072)Ala+(-0.0286)Val+(0.1353)Ile;0.838,0.867,0.788,0.780,0.803,0.812,0.760,0.788,(1.6141)+(0.0409)Ser+(-0.0979)Cit+(-0.0046)Arg+(-0.0109)Lys+(0.1120)Phe+(-0.1732)Trp;0.838,0.862,0.812,0.811,0.774,0.847,0.865,0.825,(4.5359)+(0.0030)Gln+(0.0027)Thr+(-0.0090)Ala+(0.1603)Ile+(-0.0667)Leu+(-0.1441)Trp;0.838,0.863,0.802,0.792,0.791,0.843,0.821,0.812,(4.1897)+(0.0022)Gly+(0.0046)Gln+(-0.0888)Cit+(0.1485)Ile+(-0.0596

)Leu+(-0.1625)Trp;0.838,0.867,0.795,0.788,0.794,0.815,0.804,0.800,(5.4245)+(0.0045)Gly+(-0.1119)His+(-0.0131)Tyr+(0.0017)Val+(0.1126)Phe+(

-0.1123)Trp;0.838,0.866,0.829,0.838,0.838,0.871,0.759,0.826,(5.2435)+(0.0328)Ser+(-0.1231)Asn+(0.0054)Gln+(0.0125)Thr+(-0.0772)Cit+(-0.1450)Trp;0.838,0.863,0.766,0.750,0.785,0.812,0.736,0.771,(3.1285)+(0.0050)Gly+(-0.1481)His+(0.0410)Thr+(-0.0059)Val+(-0.3270)Met+(0.1608)Phe;0.838,0.863,0.797,0.790,0.747,0.844,0.886,0.817,(5.7347)+(0.0002)Gly+(-0.0081)Ala+(0.0042)Tyr+(-0.0412)Val+(0.1686)Ile+(-0.1290)Trp;0.838,0.866,0.791,0.777,0.794,0.813,0.807,0.798,(5.1693)+(0.0045)Gly+(-0.1169)His+(0.0004)Val+(0.0047)Lys+(0.1045)Phe+(-0.1187)Trp;0.838,0.868,0.785,0.764,0.784,0.818,0.819,0.797,(5.3253)+(0.0047)Gly+(-0.1130)His+(-0.0163)Val+(0.0375)Leu+(0.1003)Phe+(-0.1212)Trp;0.838,0.863,0.812,0.811,0.774,0.847,0.868,0.825,(4.5376)+(0.0031)Gln+(-0.0096)Ala+(0.0033)Pro+(0.1576)Ile+(-0.0666)Leu+(-0.1423)Trp;0.838,0.864,0.799,0.793,0.750,0.846,0.881,0.817,(5.8352)+(-0.0080)Ala+(0.0028)Tyr+(-0.0342)Val+(0.1837)Ile+(-0.0223)Leu+(-0.1262)Trp;0.838,0.863,0.769,0.753,0.776,0.833,0.754,0.779,(5.3854)+(0.0365)Ser+(-0.1023)His+(0.0051)Thr+(0.0085)Pro+(0.0060)Tyr+(-0.1082)Trp;0.838,0.860,0.828,0.834,0.820,0.859,0.811,0.831,(6.7346)+(-0.0732)Asn+(0.0100)Gln+(-0.1033)His+(0.0199)Thr+(-0.0009)Ala+(-0.1046)Trp;0.838,0.865,0.784,0.773,0.789,0.844,0.758,0.791,(6.0567)+(0.0453)Ser+(-0.0505)Asn+(-0.0840)His+(-0.0089)Arg+(0.0114)Pro+(-0.0986)Trp;0.838,0.863,0.806,0.804,0.758,0.851,0.881,0.824,(5.2671)+(0.0039)Gln+(-0.0075)Ala+(-0.0201)Arg+(-0.0415)Val+(0.1704)Ile+(-0.1275)Trp;0.838,0.863,0.786,0.765,0.821,0.840,0.732,0.790,(4.6524)+(0.0342)Ser+(-0.1254)Cit+(0.0531)Orn+(-0.0163)Lys+(0.0224)Leu+(-0.1697)Trp;0.838,0.863,0.769,0.757,0.784,0.792,0.750,0.771,(1.1436)+(0.0382)Ser+(-0.1063)Cit+(0.0070)Pro+(-0.0033)Val+(0.0975)Phe+(-0.1878)Trp;0.838,0.863,0.810,0.793,0.800,0.826,0.865,0.821,(4.5592)+(-0.0117)Ala+(-0.0990)Cit+(0.0085)Pro+(0.0652)Ile+(0.0794)Phe+(-0.1752)Trp;0.838,0.866,0.823,0.823,0.841,0.821,0.789,0.818,(5.9611)+(-0.1050)Asn+

(0.0283)Thr+(-0.0899)Cit+(-0.0067)Val+(0.1078)Phe+(-0.1650)Trp;0.838,0.867,0.837,0.833,0.851,0.837,0.814,0.834,(4.0273)+(-0.0967)Asn+(0.0069)Gln+(-0.1249)Cit+(0.0432)Orn+(0.0800)Phe+(-0.1691)Trp;0.838,0.865,0.790,0.788,0.769,0.792,0.842,0.798,(2.3255)+(0.0020)Gln+(-0.0120)Orn+(0.1404)Ile+(-0.0733)Leu+(0.0677)Phe+(-0.1660)Trp;0.838,0.861,0.743,0.712,0.703,0.852,0.832,0.775,(2.6671)+(0.0335)Ser+(-0.1128)His+(-0.0075)Ala+(-0.0298)Val+(0.0177)Orn+(0.1326)Ile;0.838,0.859,0.777,0.767,0.705,0.888,0.870,0.808,(2.5158)+(0.0430)Ser+(-0.1729)Asn+(0.0015)Gln+(-0.0076)Ala+(-0.0542)Val+(0.1878)Ile;0.838,0.864,0.805,0.800,0.830,0.863,0.726,0.805,(5.0382)+(0.0349)Ser+(-0.1011)Cit+(-0.0035)Arg+(-0.1228)Met+(0.0520)Orn+(-0.1403)Trp;0.838,0.864,0.758,0.742,0.705,0.845,0.849,0.785,(0.0399)+(0.0534)Ser+(-0.2442)Asn+(0.0004)Gln+(-0.0632)Val+(0.1708)Ile+(0.0920)Phe;0.838,0.869,0.765,0.747,0.727,0.822,0.852,0.787,(2.9142)+(0.0371)Ser+(-0.0082)Gly+(-0.0408)Val+(0.0046)Orn+(0.1471)Ile+(-0.1465)Trp;0.838,0.868,0.777,0.761,0.752,0.813,0.846,0.793,(0.2409)+(0.0328)Ser+(-0.0105)Ala+(-0.0124)Orn+(0.0660)Ile+(0.0648)Phe+(-0.1787)Trp;0.838,0.866,0.790,0.770,0.787,0.827,0.825,0.802,(7.3676)+(-0.0783)His+(-0.0125)Arg+(0.0261)Orn+(0.1163)Ile+(-0.0415)Leu+(-0.1126)Trp;0.838,0.861,0.794,0.769,0.785,0.846,0.844,0.811,(7.0395)+(0.0045)Gly+(-0.0955)His+(-0.0057)Ala+(0.0150)Tyr+(0.0763)Ile+(-0.1203)Trp;0.838,0.867,0.772,0.750,0.785,0.823,0.768,0.781,(3.1299)+(0.0371)Ser+(-0.0846)Cit+(-0.0100)Arg+(-0.0045)Tyr+(0.0708)Ile+(-0.1808)Trp;0.838,0.862,0.799,0.783,0.794,0.848,0.821,0.811,(5.7184)+(0.0032)Gly+(0.0134)Thr+(-0.0091)Ala+(-0.0925)Cit+(0.0833)Ile+(-0.1698)Trp;0.838,0.865,0.790,0.767,0.771,0.835,0.856,0.807,(7.3674)+(-0.0550)His+(-0.0430)Cit+(0.0056)Tyr+(-0.0299)Val+(0.1406)Ile+(-0.1185)Trp;0.838,0.864,0.731,0.702,0.701,0.828,0.800,0.758,(0.6355)+(0.0452)Ser+(-0.1547)His+(-0.0061)Ala+(-0.0381)Tyr+(0.0525)Ile+(0.0910)Phe;0.838,0.868,0.792,

0.763,0.796,0.812,0.849,0.805,(5.9970)+(-0.1074)His+(-0.0052)Arg+(-0.0008)Pro+(0.0496)Ile+(0.0781)Phe+(-0.1284)Trp;0.838,0.868,0.811,0.813,0.835,0.785,0.772,0.801,(3.0581)+(-0.0012)Gly+(0.0376)Thr+(-0.3393)Met+(0.0001)Leu+(0.1284)Phe+(-0.1611)Trp;0.838,0.866,0.778,0.752,0.790,0.822,0.788,0.788,(3.1693)+(0.0421)Ser+(-0.0036)Gly+(-0.0800)Cit+(-0.0111)Arg+(0.0689)Ile+(-0.1823)Trp;0.838,0.865,0.792,0.789,0.772,0.795,0.836,0.798,(2.4269)+(0.0017)Gln+(-0.0031)Thr+(0.1383)Ile+(-0.0737)Leu+(0.0625)Phe+(-0.1619)Trp;0.838,0.860,0.797,0.798,0.792,0.854,0.769,0.803,(4.8840)+(0.0261)Ser+(0.0061)Gln+(-0.1122)His+(0.0078)Thr+(-0.0009)Ala+(-0.1020)Trp;0.838,0.865,0.793,0.783,0.808,0.834,0.762,0.797,(5.0151)+(0.0449)Ser+(-0.0959)Asn+(-0.0783)Cit+(0.0088)Pro+(0.0154)Leu+(-0.1561)Trp;0.838,0.863,0.812,0.809,0.769,0.855,0.877,0.827,(5.5681)+(-0.1089)Asn+(0.0049)Gln+(-0.0421)Val+(0.0033)Lys+(0.1485)Ile+(-0.1197)Trp;0.838,0.863,0.770,0.749,0.785,0.829,0.750,0.778,(5.2568)+(0.0431)Ser+(-0.1055)His+(-0.0129)Arg+(0.0084)Pro+(0.0091)Val+(-0.1112)Trp;0.838,0.862,0.790,0.776,0.800,0.849,0.763,0.797,(5.6028)+(0.0453)Ser+(-0.0201)Asn+(-0.0969)His+(0.0135)Val+(-0.0700)Met+(-0.1052)Trp;0.838,0.869,0.769,0.749,0.730,0.871,0.829,0.795,(1.1014)+(0.0384)Ser+(-0.0524)Val+(-0.3414)Met+(0.0142)Orn+(0.2066)Ile+(-0.0112)Leu;0.838,0.863,0.803,0.804,0.791,0.843,0.796,0.808,(4.1481)+(0.0505)Ser+(-0.0074)Gly+(-0.0034)Ala+(0.0161)Pro+(-0.1772)Met+(-0.1313)Trp;0.838,0.861,0.801,0.797,0.811,0.844,0.758,0.803,(8.0653)+(-0.0939)His+(0.0249)Thr+(-0.1351)Met+(0.0264)Orn+(0.0082)Lys+(-0.1058)Trp;0.838,0.861,0.788,0.774,0.792,0.847,0.771,0.796,(5.7370)+(0.0439)Ser+(-0.0378)Asn+(-0.0992)His+(-0.0013)Ala+(0.0123)Val+(-0.1055)Trp;0.838,0.863,0.789,0.776,0.743,0.894,0.843,0.814,(2.2008)+(0.0416)Ser+(-0.1030)Asn+(-0.0115)Ala+(-0.0877)Cit+(0.1840)Ile+(-0.0776)Leu;0.838,0.865,0.794,0.784,0.759,0.843,0.858,0.811,(6.7716)+(-0.0861)Asn+(-0.0079)Tyr+(-0.0449)Val+

(0.0276)Orn+(0.1541)Ile+(-0.1102)Trp;0.838,0.865,0.791,0.787,0.774,0.793,0.837,0.798,(2.5532)+(-0.0011)Gly+(0.0016)Gln+(0.1359)Ile+(-0.0726)Leu+(0.0612)Phe+(-0.1634)Trp;0.838,0.864,0.783,0.770,0.741,0.868,0.841,0.805,(4.0816)+(-0.0009)Gly+(0.0316)Thr+(-0.0610)Val+(-0.3900)Met+(0.0006)Lys+(0.2091)Ile;0.838,0.860,0.808,0.802,0.777,0.841,0.862,0.821,(5.5691)+(0.0000)Gly+(-0.0085)Ala+(0.0087)Orn+(0.1587)Ile+(-0.0668)Leu+(-0.1358)Trp;0.838,0.866,0.801,0.799,0.801,0.823,0.790,0.803,(1.2936)+(0.0357)Ser+(0.0009)Gln+(-0.0057)Ala+(-0.0977)Cit+(0.1091)Phe+(-0.1740)Trp;0.838,0.865,0.767,0.753,0.697,0.879,0.866,0.799,(2.7966)+(0.0458)Ser+(-0.1684)Asn+(-0.0095)Ala+(0.0087)Pro+(-0.0548)Val+(0.1822)Ile;0.838,0.864,0.781,0.766,0.742,0.868,0.840,0.804,(3.7706)+(0.0289)Thr+(0.0096)Tyr+(-0.0623)Val+(-0.4019)Met+(0.0094)Orn+(0.2088)Ile;0.838,0.869,0.801,0.797,0.798,0.819,0.805,0.805,(5.6493)+(-0.0212)Asn+(0.0050)Gly+(-0.1060)His+(-0.0108)Tyr+(0.1152)Phe+(-0.1086)Trp;0.838,0.865,0.746,0.730,0.739,0.815,0.756,0.760,(1.4166)+(0.0549)Ser+(-0.1039)Asn+(-0.1420)His+(-0.0459)Tyr+(0.0199)Orn+(0.1279)Phe;0.838,0.864,0.783,0.771,0.758,0.839,0.829,0.799,(5.7543)+(0.0034)Gly+(-0.0718)Cit+(-0.0284)Val+(0.1669)Ile+(-0.0239)Leu+(-0.1410)Trp;0.838,0.870,0.773,0.777,0.761,0.775,0.782,0.774,(0.3437)+(0.0326)Ser+(-0.0073)Thr+(0.0049)Pro+(-0.0078)Val+(0.0842)Phe+(-0.1685)Trp;0.838,0.865,0.787,0.768,0.792,0.811,0.808,0.795,(5.2375)+(0.0048)Gly+(-0.1196)His+(0.0026)Lys+(0.0105)Leu+(0.0969)Phe+(-0.1225)Trp;0.838,0.866,0.768,0.736,0.777,0.843,0.782,0.784,(4.8378)+(0.0395)Ser+(-0.1171)His+(-0.0031)Ala+(0.0211)Orn+(0.0306)Leu+(-0.1130)Trp;0.838,0.864,0.814,0.793,0.837,0.821,0.818,0.817,(4.3179)+(-0.1045)Cit+(-0.1793)Met+(0.0312)Orn+(0.0484)Ile+(0.0944)Phe+(-0.1673)Trp;0.838,0.860,0.813,0.812,0.776,0.848,0.867,0.826,(4.5202)+(0.0031)Gln+(-0.0089)Ala+(0.0030)Orn+(0.1605)Ile+(-0.0674)Leu+(-0.1421)Trp;0.838,0.860,0.815,0.814,0.778,0.847,0.873,0.828

,(4.5968)+(-0.0012)Gly+(0.0036)Gln+(-0.0088)Ala+(0.1611)Ile+(-0.0674)Leu+(-0.1423)Trp;0.838,0.871,0.803,0.806,0.786,0.827,0.810,0.807,(0.9720)+(0.0336)Ser+(-0.0057)Ala+(-0.0018)Val+(-0.0089)Lys+(0.0959)Phe+(-0.1571)Trp;0.838,0.870,0.806,0.811,0.836,0.791,0.739,0.794,(3.4639)+(0.0443)Thr+(-0.0211)Arg+(-0.0068)Tyr+(-0.3256)Met+(0.1370)Phe+(-0.1600)Trp;0.838,0.863,0.770,0.754,0.708,0.883,0.862,0.802,(2.8550)+(0.0429)Ser+(-0.1811)Asn+(-0.0077)Ala+(-0.0569)Val+(0.0265)Orn+(0.1875)Ile;0.838,0.859,0.757,0.736,0.747,0.834,0.779,0.774,(1.6257)+(0.0570)Ser+(-0.0941)Asn+(-0.1417)His+(-0.0037)Ala+(-0.0055)Lys+(0.1198)Phe;0.838,0.867,0.760,0.739,0.723,0.818,0.847,0.782,(3.3836)+(0.0404)Ser+(-0.0075)Gly+(-0.0020)Gln+(-0.0406)Val+(0.1510)Ile+(-0.1432)Trp;0.838,0.863,0.752,0.720,0.720,0.860,0.820,0.780,(2.7946)+(0.0405)Ser+(-0.1183)His+(-0.0074)Ala+(-0.0073)Lys+(0.1229)Ile+(-0.0340)Leu;0.838,0.863,0.791,0.768,0.779,0.828,0.849,0.806,(3.5611)+(-0.0967)His+(-0.0006)Pro+(-0.2435)Met+(0.1405)Ile+(-0.0680)Leu+(0.1199)Phe;0.838,0.868,0.783,0.763,0.809,0.865,0.727,0.791,(5.9872)+(0.0331)Ser+(-0.0869)His+(0.0070)Thr+(-0.0807)Cit+(0.0481)Orn+(-0.1138)Trp;0.838,0.868,0.769,0.751,0.727,0.872,0.829,0.795,(1.1471)+(0.0409)Ser+(-0.0005)Gln+(-0.0544)Val+(-0.3443)Met+(0.0021)Lys+(0.1997)Ile;0.838,0.867,0.821,0.819,0.802,0.850,0.848,0.830,(3.9109)+(0.0060)Gln+(0.0179)Tyr+(-0.2208)Met+(0.1540)Ile+(-0.0633)Leu+(-0.1370)Trp;0.838,0.865,0.797,0.770,0.792,0.839,0.847,0.812,(7.5225)+(-0.0953)His+(-0.0053)Ala+(0.0239)Orn+(0.0018)Lys+(0.0675)Ile+(-0.1182)Trp;0.838,0.871,0.792,0.778,0.802,0.821,0.790,0.798,(5.5291)+(0.0045)Gly+(-0.1138)His+(-0.0109)Arg+(0.0228)Orn+(0.1007)Phe+(-0.1132)Trp;0.838,0.862,0.720,0.669,0.720,0.813,0.791,0.748,(0.7917)+(0.0558)Ser+(-0.0038)Gly+(-0.1604)His+(-0.0196)Lys+(0.0485)Ile+(0.0803)Phe;0.838,0.868,0.780,0.768,0.764,0.833,0.805,0.792,(3.2145)+(0.0463)Ser+(-0.0068)Gly+(-0.0317)Arg+(0.1629)Ile+(-0.0711)Leu+(-0.

1464)Trp;0.838,0.866,0.802,0.782,0.810,0.807,0.836,0.809,(6.1930)+(-0.0103)Asn+(-0.1066)His+(0.0033)Pro+(0.0082)Leu+(0.0929)Phe+(-0.1212)Trp;0.838,0.863,0.803,0.802,0.812,0.837,0.761,0.803,(8.7151)+(-0.0142)Asn+(-0.0795)His+(0.0304)Thr+(0.0089)Pro+(-0.1362)Met+(-0.1041)Trp;0.838,0.863,0.814,0.805,0.822,0.844,0.800,0.818,(5.7518)+(0.0091)Gln+(-0.1160)His+(0.0147)Thr+(-0.0485)Cit+(0.0110)Val+(-0.1264)Trp;0.838,0.860,0.748,0.709,0.728,0.860,0

.813,0.778,(2.9832)+(0.0492)Ser+(-0.0684)Asn+(-0.1278)His+(-0.0082)Ala+(0.0062)Pro+(0.0676)Ile;0.838,0.869,0.859,0.865,0.865,0.838,0.846,0.854,(2.2614)+(-0.0481)Asn+(0.0098)Gln+(-0.0872)Cit+(-0.1772)Met+(0.1247)Phe+(-0.1533)Trp;0.838,0.862,0.760,0.727,0.750,0.851,0.804,0.783,(1.9396)+(0.0423)Ser+(-0.0905)Asn+(0.0074)Gln+(-0.1463)His+(-0.0083)Lys+(0.0619)Ile;0.838,0.860,0.764,0.742,0.713,0.841,0.877,0.793,(3.8017)+(-0.1107)His+(0.0100)Thr+(-0.0076)Ala+(-0.0366)Val+(0.1287)Ile+(0.0678)Phe;0.838,0.869,0.802,0.795,0.804,0.823,0.802,0.806,(5.7001)+(-0.0182)Asn+(0.0054)Gly+(-0.1071)His+(-0.0059)Arg+(0.1120)Phe+(-0.1116)Trp;0.838,0.866,0.794,0.783,0.821,0.848,0.731,0.796,(4.3750)+(0.0360)Ser+(0.0196)Thr+(-0.0734)Cit+(-0.2154)Met+(0.0267)Leu+(-0.1548)Trp;0.838,0.863,0.781,0.771,0.779,0.850,0.758,0.790,(5.8451)+(0.0414)Ser+(-0.0894)His+(-0.0035)Ala+(-0.0125)Arg+(0.0141)Pro+(-0.0993)Trp;0.838,0.863,0.716,0.682,0.704,0.806,0.769,0.740,(0.6782)+(0.0488)Ser+(-0.1531)His+(-0.0416)Tyr+(-0.0146)Lys+(0.0503)Ile+(0.1000)Phe;0.838,0.860,0.817,0.800,0.815,0.853,0.838,0.827,(4.7860)+(0.0047)Gln+(-0.0095)Ala+(-0.1167)Cit+(0.0380)Orn+(0.0717)Ile+(-0.1715)Trp;0.838,0.861,0.817,0.813,0.789,0.852,0.862,0.829,(6.3810)+(0.0031)Asn+(-0.0059)Ala+(-0.1182)Met+(0.1641)Ile+(-0.0632)Leu+(-0.1209)Trp;0.838,0.865,0.770,0.747,0.783,0.836,0.754,0.780,(5.1868)+(0.0351)Ser+(-0.1152)His+(0.0051)Thr+(0.0094)Val+(0.0189)Orn+(-0.1122)Trp;0.838,0.862,0.777,0.757,0.754,0

.827,0.842,0.795,(6.7267)+(0.0026)Gly+(-0.0747)His+(0.0050)Tyr+(-0.02
90)Val+(0.1352)Ile+(-0.1112)Trp;0.838,0.865,0.802,0.796,0.802,0.819,0
.806,0.806,(1.6056)+(0.0414)Ser+(-0.0034)Gly+(-0.0054)Ala+(-0.0919)Ci
t+(0.1086)Phe+(-0.1732)Trp;0.838,0.862,0.798,0.774,0.787,0.837,0.858,
0.814,(7.5822)+(-0.0881)His+(-0.0062)Ala+(0.0054)Pro+(0.0038)Lys+(0.0
682)Ile+(-0.1198)Trp;0.838,0.867,0.802,0.787,0.808,0.866,0.785,0.812,
(5.8366)+(0.0441)Ser+(-0.0052)Gly+(-0.0863)His+(-0.0819)Met+(0.0330)O
rn+(-0.0945)Trp;0.838,0.866,0.816,0.810,0.789,0.852,0.865,0.829,(6.45
72)+(-0.0072)Ala+(0.0064)Pro+(-0.1244)Met+(0.1564)Ile+(-0.0615)Leu+(-
0.1203)Trp;0.838,0.861,0.828,0.833,0.821,0.855,0.813,0.830,(6.7067)+(
-0.0741)Asn+(-0.0006)Gly+(0.0101)Gln+(-0.1043)His+(0.0198)Thr+(-0.105
5)Trp;0.838,0.867,0.768,0.753,0.728,0.823,0.848,0.788,(3.2964)+(0.037
7)Ser+(-0.0083)Gly+(-0.0146)Tyr+(-0.0389)Val+(0.1475)Ile+(-0.1406)Trp
;0.838,0.861,0.790,0.769,0.779,0.838,0.837,0.806,(7.0564)+(0.0041)Gly
+(-0.0948)His+(-0.0051)Ala+(0.0037)Lys+(0.0750)Ile+(-0.1175)Trp;0.838
,0.868,0.782,0.767,0.759,0.841,0.826,0.798,(6.2904)+(0.0183)Thr+(-0.0
580)Cit+(-0.0193)Arg+(-0.0397)Val+(0.1564)Ile+(-0.1476)Trp;0.838,0.86
7,0.785,0.790,0.756,0.810,0.817,0.793,(0.8230)+(0.0305)Ser+(-0.0087)A
la+(0.0101)Pro+(-0.0055)Val+(0.0893)Phe+(-0.1638)Trp;0.838,0.867,0.77
8,0.751,0.792,0.840,0.773,0.789,(4.6685)+(0.0478)Ser+(-0.1047)His+(-0
.1312)Met+(0.0034)Lys+(0.0359)Leu+(-0.1061)Trp;0.838,0.863,0.763,0.73
5,0.769,0.838,0.772,0.778,(5.0573)+(0.0379)Ser+(-0.1203)His+(0.0111)T
hr+(-0.0030)Ala+(0.0334)Leu+(-0.1177)Trp;0.838,0.861,0.788,0.773,0.79
7,0.848,0.763,0.795,(5.3982)+(0.0443)Ser+(-0.1005)His+(-0.0005)Ala+(0
.0144)Val+(-0.0832)Met+(-0.1053)Trp;0.838,0.860,0.755,0.733,0.776,0.8
04,0.731,0.761,(2.8417)+(0.0054)Gly+(-0.1533)His+(0.0392)Thr+(0.0047)
Pro+(-0.3398)Met+(0.1481)Phe;0.838,0.864,0.782,0.770,0.787,0.852,0.75
4,0.791,(5.7954)+(0.0312)Ser+(-0.1016)His+(0.0067)Thr+(-0.0015)Ala+(0

.0270)Orn+(-0.1006)Trp;0.838,0.870,0.822,0.805,0.824,0.830,0.859,0.829,(6.1024)+(-0.0902)His+(-0.0202)Val+(-0.1500)Met+(0.0447)Leu+(0.1243)Phe+(-0.1087)Trp;0.838,0.868,0.815,0.821,0.832,0.800,0.776,0.807,(3.0493)+(0.0380)Thr+(-0.0033)Ala+(-0.0041)Tyr+(-0.3187)Met+(0.1341)Phe+(-0.1573)Trp;0.838,0.865,0.781,0.769,0.740,0.868,0.837,0.804,(3.9685)+(0.0314)Thr+(-0.0617)Val+(-0.3923)Met+(0.0003)Lys+(0.2070)Ile+(0.0029)Leu;0.838,0.862,0.786,0.792,0.761,0.785,0.824,0.790,(3.4047)+(-0.0010)Gly+(-0.0453)Tyr+(0.1452)Ile+(-0.0769)Leu+(0.0901)Phe+(-0.1422)Trp;0.838,0.863,0.724,0.693,0.714,0.818,0.760,0.746,(-0.1112)+(0.0509)Ser+(-0.1425)His+(-0.0334)Arg+(0.1229)Ile+(-0.0614)Leu+(0.1005)Phe;0.838,0.863,0.738,0.700,0.722,0.839,0.797,0.765,(0.5134)+(0.0519)Ser+(-0.1566)His+(-0.0077)Ala+(-0.0232)Arg+(0.0552)Ile+(0.0829)Phe;0.838,0.860,0.813,0.812,0.817,0.836,0.788,0.813,(5.9494)+(0.0104)Gln+(-0.1284)His+(0.0186)Thr+(-0.0223)Arg+(0.0090)Val+(-0.1180)Trp;0.838,0.858,0.793,0.766,0.820,0.834,0.778,0.799,(6.4597)+(0.0132)Thr+(-0.1212)Cit+(0.0433)Orn+(-0.0163)Lys+(0.0612)Ile+(-0.1732)Trp;0.838,0.860,0.793,0.771,0.781,0.844,0.838,0.808,(7.2050)+(0.0001)Asn+(0.0042)Gly+(-0.0917)His+(-0.0050)Ala+(0.0769)Ile+(-0.1150)Trp;0.838,0.869,0.809,0.812,0.834,0.789,0.766,0.800,(2.9185)+(0.0373)Thr+(-0.3384)Met+(-0.0017)Lys+(0.0009)Leu+(0.1294)Phe+(-0.1597)Trp;0.838,0.868,0.800,0.781,0.791,0.835,0.843,0.813,(7.1651)+(0.0237)Asn+(-0.0654)His+(-0.1180)Met+(0.1313)Ile+(-0.0411)Leu+(-0.1050)Trp;0.838,0.866,0.818,0.812,0.844,0.874,0.737,0.817,(5.2094)+(0.0335)Ser+(0.0170)Thr+(-0.0682)Cit+(0.0332)Tyr+(-0.2063)Met+(-0.1498)Trp;0.838,0.863,0.839,0.851,0.838,0.877,0.782,0.837,(4.7352)+(0.0357)Ser+(-0.0876)Asn+(0.0066)Gln+(-0.0673)Cit+(-0.0645)Met+(-0.1327)Trp;0.838,0.861,0.784,0.769,0.793,0.842,0.767,0.793,(5.6420)+(0.0432)Ser+(-0.0481)Asn+(-0.1006)His+(0.0100)Val+(0.0051)Lys+(-0.1089)Trp;0.838,0.864,0.821,0.821,0.818,0.852,0.804,0.824,(6.4988)

+(-0.0737)Asn+(0.0093)Gln+(-0.1072)His+(0.0166)Thr+(0.0203)Orn+(-0.1055)Trp;0.837,0.861,0.787,0.765,0.757,0.856,0.862,0.810,(6.0440)+(-0.0634)His+(-0.0041)Ala+(-0.0436)Val+(-0.1934)Met+(0.0319)Orn+(0.1697)Ile;0.837,0.862,0.784,0.767,0.759,0.826,0.851,0.800,(7.5424)+(-0.0636)His+(-0.0107)Arg+(0.0018)Pro+(-0.0321)Val+(0.1414)Ile+(-0.1072)Trp;0.837,0.861,0.829,0.831,0.822,0.856,0.815,0.831,(6.5665)+(-0.0755)Asn+(0.0101)Gln+(-0.1071)His+(0.0184)Thr+(0.0091)Tyr+(-0.1084)Trp;0.837,0.863,0.784,0.790,0.758,0.787,0.822,0.789,(3.2379)+(-0.0442)Tyr+(-0.0036)Orn+(0.1462)Ile+(-0.0769)Leu+(0.0919)Phe+(-0.1436)Trp;0.837,0.874,0.779,0.781,0.777,0.786,0.773,0.779,(0.8753)+(0.0340)Ser+(-0.0007)Gln+(-0.0046)Val+(-0.0102)Lys+(0.0915)Phe+(-0.1623)Trp;0.837,0.859,0.748,0.723,0.712,0.851,0.817,0.776,(2.7866)+(0.0375)Ser+(-0.1193)His+(-0.0073)Ala+(-0.0106)Tyr+(0.1237)Ile+(-0.0372)Leu;0.837,0.869,0.796,0.772,0.805,0.814,0.826,0.804,(5.9190)+(-0.1157)His+(0.0204)Orn+(0.0017)Lys+(0.0075)Leu+(0.0857)Phe+(-0.1216)Trp;0.837,0.864,0.799,0.780,0.826,0.836,0.768,0.803,(8.5061)+(-0.0928)His+(0.0375)Thr+(-0.0410)Cit+(-0.1637)Met+(0.0318)Leu+(-0.1170)Trp;0.837,0.862,0.813,0.809,0.786,0.853,0.853,0.825,(6.1148)+(0.0021)Gly+(-0.0059)Ala+(-0.1228)Met+(0.1651)Ile+(-0.0633)Leu+(-0.1205)Trp;0.837,0.865,0.777,0.757,0.791,0.847,0.750,0.786,(5.5391)+(0.0414)Ser+(-0.0870)His+(-0.0445)Cit+(0.0104)Pro+(0.0109)Tyr+(-0.1165)Trp;0.837,0.863,0.815,0.820,0.826,0.868,0.740,0.814,(6.5955)+(0.0360)Ser+(-0.0989)Asn+(0.0164)Thr+(-0.0017)Ala+(-0.0716)Cit+(-0.1393)Trp;0.837,0.862,0.800,0.794,0.806,0.862,0.761,0.806,(6.4689)+(0.0429)Ser+(-0.0613)Asn+(-0.0762)His+(-0.0376)Cit+(0.0104)Lys+(-0.1050)Trp;0.837,0.861,0.753,0.721,0.760,0.823,0.773,0.769,(4.6773)+(0.0416)Ser+(-0.1127)His+(0.0069)Pro+(-0.0155)Val+(0.0510)Leu+(-0.1167)Trp;0.837,0.865,0.789,0.774,0.795,0.835,0.785,0.797,(4.2300)+(0.0352)Ser+(-0.0084)Ala+(-0.0894)Cit+(0.0145)Pro+(0.0209)Leu+(-0.1662)Trp;

0.837,0.872,0.790,0.768,0.784,0.808,0.846,0.801,(5.8122)+(-0.1079)His+(-0.0243)Tyr+(0.0016)Lys+(0.0499)Ile+(0.0881)Phe+(-0.1230)Trp;0.837,0.869,0.814,0.804,0.809,0.826,0.843,0.821,(6.3990)+(-0.0985)His+(-0.0051)Ala+(-0.0062)Arg+(0.0088)Pro+(0.1065)Phe+(-0.1146)Trp;0.837,0.868,0.807,0.801,0.804,0.832,0.811,0.812,(5.7036)+(0.0051)Gly+(-0.1074)His+(-0.0027)Ala+(-0.0070)Arg+(0.1163)Phe+(-0.1111)Trp;0.837,0.861,0.783,0.767,0.759,0.824,0.847,0.799,(7.4285)+(-0.0673)His+(-0.0143)Arg+(-0.0328)Val+(0.0070)Lys+(0.1413)Ile+(-0.1108)Trp;0.837,0.868,0.783,0.757,0.802,0.845,0.770,0.793,(4.9741)+(0.0492)Ser+(-0.0936)His+(-0.0366)Cit+(-0.1111)Met+(0.0374)Leu+(-0.1092)Trp;0.837,0.864,0.812,0.809,0.770,0.856,0.877,0.828,(5.5873)+(-0.1021)Asn+(0.0050)Gln+(-0.0002)Pro+(-0.0414)Val+(0.1493)Ile+(-0.1184)Trp;0.837,0.863,0.756,0.720,0.770,0.821,0.771,0.771,(4.5167)+(0.0422)Ser+(-0.1184)His+(0.0053)Pro+(0.0052)Tyr+(0.0278)Leu+(-0.1204)Trp;0.837,0.860,0.794,0.779,0.798,0.823,0.808,0.802,(5.4478)+(0.0082)Gln+(-0.1340)His+(0.0135)Thr+(0.0019)Pro+(0.0246)Leu+(-0.1249)Trp;0.837,0.865,0.785,0.765,0.808,0.863,0.733,0.792,(5.8943)+(0.0353)Ser+(-0.0823)His+(-0.0803)Cit+(0.0514)Orn+(-0.0004)Lys+(-0.1106)Trp;0.837,0.863,0.797,0.774,0.820,0.834,0.781,0.802,(8.0864)+(-0.1049)His+(0.0355)Thr+(0.0177)Tyr+(-0.1902)Met+(0.0306)Leu+(-0.1184)Trp;0.837,0.861,0.753,0.729,0.778,0.803,0.731,0.760,(2.9853)+(0.0054)Gly+(-0.1607)His+(0.0414)Thr+(-0.3423)Met+(0.0104)Leu+(0.1423)Phe;0.837,0.864,0.821,0.817,0.843,0.823,0.783,0.816,(6.0275)+(-0.0876)Asn+(0.0284)Thr+(-0.0965)Cit+(-0.0076)Lys+(0.1038)Phe+(-0.1722)Trp;0.837,0.863,0.800,0.803,0.800,0.857,0.752,0.803,(5.1218)+(0.0266)Ser+(0.0078)Gln+(-0.1146)His+(0.0136)Thr+(-0.0229)Arg+(-0.1019)Trp;0.837,0.870,0.817,0.800,0.821,0.827,0.847,0.824,(2.9217)+(0.0059)Gln+(-0.1101)Cit+(-0.0165)Lys+(0.0615)Ile+(0.0764)Phe+(-0.1870)Trp;0.837,0.869,0.764,0.751,0.733,0.836,0.809,0.782,(3.2640)+(0.0350)Ser+(-0.0315)Ar

g+(0.0050)Tyr+(-0.0428)Val+(0.1627)Ile+(-0.1385)Trp;0.837,0.864,0.786,0.786,0.788,0.790,0.779,0.786,(1.4330)+(0.0458)Ser+(-0.0053)Gly+(-0.0897)Cit+(-0.0393)Tyr+(0.1185)Phe+(-0.1709)Trp;0.837,0.859,0.771,0.760,0.701,0.885,0.866,0.803,(2.7703)+(0.0436)Ser+(-0.1601)Asn+(-0.0077)Ala+(-0.0502)Val+(0.1974)Ile+(-0.0123)Leu;0.837,0.869,0.800,0.788,0.802,0.813,0.817,0.805,(5.9403)+(-0.1082)His+(-0.0205)Tyr+(-0.0008)Val+(0.0255)Orn+(0.1034)Phe+(-0.1078)Trp;0.837,0.859,0.770,0.757,0.701,0.883,0.863,0.801,(2.9450)+(0.0422)Ser+(-0.1772)Asn+(0.0073)Thr+(-0.0077)Ala+(-0.0557)Val+(0.1909)Ile;0.837,0.869,0.770,0.749,0.732,0.872,0.830,0.796,(1.0435)+(0.0389)Ser+(-0.0553)Val+(-0.3457)Met+(0.0148)Orn+(-0.0003)Lys+(0.1973)Ile;0.837,0.865,0.756,0.721,0.771,0.831,0.763,0.771,(4.7801)+(0.0368)Ser+(-0.1241)His+(0.0069)Thr+(0.0156)Orn+(0.0286)Leu+(-0.1198)Trp;0.837,0.861,0.798,0.794,0.749,0.844,0.876,0.816,(6.3339)+(0.0010)Gly+(-0.0072)Ala+(-0.0143)Arg+(-0.0423)Val+(0.1737)Ile+(-0.1211)Trp;0.837,0.865,0.822,0.810,0.830,0.822,0.837,0.825,(5.8573)+(0.0224)Asn+(-0.0988)His+(0.

0019)Val+(-0.1506)Met+(0.1308)Phe+(-0.1089)Trp;0.837,0.865,0.763,0.759,0.772,0.784,0.743,0.764,(1.0606)+(0.0406)Ser+(-0.1048)Cit+(0.0089)Pro+(-0.0431)Tyr+(0.1154)Phe+(-0.1786)Trp;0.837,0.857,0.758,0.737,0.747,0.831,0.782,0.774,(1.5594)+(0.0564)Ser+(-0.1074)Asn+(-0.1381)His+(-0.0032)Ala+(-0.0047)Val+(0.1246)Phe;0.837,0.871,0.781,0.788,0.785,0.794,0.747,0.778,(0.9495)+(0.0354)Ser+(-0.0294)Arg+(0.0059)Pro+(-0.0081)Val+(0.0963)Phe+(-0.1674)Trp;0.837,0.870,0.801,0.804,0.786,0.824,0.808,0.805,(1.0507)+(0.0326)Ser+(0.0033)Thr+(-0.0062)Ala+(-0.0105)Lys+(0.0937)Phe+(-0.1597)Trp;0.837,0.869,0.813,0.793,0.826,0.843,0.817,0.820,(6.4322)+(-0.0833)His+(-0.0049)Ala+(-0.0939)Cit+(0.0507)Orn+(0.1113)Phe+(-0.1302)Trp;0.837,0.868,0.794,0.791,0.775,0.798,0.841,0.801,(2.5500)+(0.0020)Gln+(-0.0065)Lys+(0.1351)Ile+(-0.0691)Leu+(0.0652)Phe+

(-0.1606)Trp;0.837,0.866,0.798,0.782,0.802,0.805,0.829,0.804,(5.7791)+(-0.1088)His+(0.0041)Pro+(-0.0016)Val+(0.0049)Lys+(0.0987)Phe+(-0.1205)Trp;0.837,0.860,0.815,0.814,0.777,0.850,0.871,0.828,(4.5576)+(0.0035)Gln+(-0.0087)Ala+(-0.0018)Lys+(0.1610)Ile+(-0.0663)Leu+(-0.1410)Trp;0.837,0.867,0.821,0.809,0.805,0.838,0.873,0.831,(2.6343)+(0.0053)Gln+(-0.0107)Ala+(-0.1051)Cit+(0.0728)Ile+(0.0776)Phe+(-0.1844)Trp;0.837,0.865,0.759,0.743,0.706,0.845,0.850,0.786,(0.1075)+(0.0536)Ser+(-0.2407)Asn+(-0.0020)Pro+(-0.0632)Val+(0.1738)Ile+(0.0937)Phe;0.837,0.864,0.788,0.783,0.769,0.792,0.837,0.795,(2.9959)+(0.0000)Gly+(-0.0082)Orn+(0.1396)Ile+(-0.0731)Leu+(0.0682)Phe+(-0.1611)Trp;0.837,0.862,0.805,0.786,0.808,0.848,0.817,0.815,(6.1219)+(0.0108)Thr+(-0.0095)Ala+(-0.1148)Cit+(0.0388)Orn+(0.0696)Ile+(-0.1692)Trp;0.837,0.873,0.767,0.763,0.771,0.776,0.763,0.768,(0.7596)+(0.0353)Ser+(-0.0010)Gln+(0.0031)Pro+(-0.0126)Lys+(0.0828)Phe+(-0.1677)Trp;0.837,0.872,0.756,0.726,0.749,0.857,0.779,0.778,(2.5806)+(0.0512)Ser+(-0.1045)His+(-0.0135)Arg+(-0.2003)Met+(0.1418)Ile+(-0.0421)Leu;0.837,0.871,0.808,0.800,0.811,0.841,0.801,0.813,(5.6195)+(0.0071)Gly+(-0.0944)His+(-0.0034)Ala+(-0.0650)Cit+(0.1313)Phe+(-0.1215)Trp;0.837,0.863,0.778,0.759,0.782,0.832,0.784,0.789,(5.4365)+(0.0463)Ser+(-0.0053)Gly+(-0.0959)His+(0.0099)Pro+(0.0039)Tyr+(-0.1078)Trp;0.837,0.863,0.794,0.784,0.794,0.851,0.778,0.802,(4.4168)+(0.0282)Ser+(0.0056)Gln+(-0.1184)His+(0.0108)Tyr+(0.0201)Orn+(-0.1057)Trp;0.837,0.863,0.782,0.764,0.757,0.825,0.854,0.800,(7.1187)+(-0.0685)His+(0.0006)Pro+(-0.0291)Val+(0.1385)Ile+(-0.0030)Leu+(-0.1095)Trp;0.837,0.864,0.806,0.802,0.771,0.841,0.862,0.819,(5.5250)+(0.0053)Thr+(-0.0095)Ala+(0.0034)Pro+(0.1552)Ile+(-0.0647)Leu+(-0.1402)Trp;0.837,0.861,0.777,0.769,0.794,0.798,0.751,0.778,(1.2441)+(0.0362)Ser+(0.0022)Thr+(-0.1025)Cit+(-0.0015)Val+(0.1003)Phe+(-0.1852)Trp;0.837,0.865,0.798,0.770,0.793,0.842,0.848,0.813,(7.5598)+(-0.0946)Hi

s+(-0.0055)Ala+(0.0042)Tyr+(0.0238)Orn+(0.0682)Ile+(-0.1185)Trp;0.837,0.864,0.778,0.765,0.739,0.865,0.833,0.801,(3.8764)+(0.0291)Thr+(0.0014)Pro+(-0.0612)Val+(-0.3903)Met+(0.0094)Orn+(0.2052)Ile;0.837,0.863,0.756,0.722,0.770,0.821,0.769,0.771,(4.6452)+(0.0429)Ser+(-0.1152)His+(0.0059)Pro+(-0.0034)Lys+(0.0298)Leu+(-0.1166)Trp;0.837,0.859,0.801,0.799,0.810,0.845,0.759,0.803,(8.3433)+(-0.0896)His+(0.0264)Thr+(-0.0005)Ala+(-0.1136)Met+(0.0297)Orn+(-0.1015)Trp;0.837,0.864,0.796,0.780,0.811,0.835,0.781,0.802,(8.2732)+(-0.1035)His+(0.0361)Thr+(-0.0012)Ala+(-0.1624)Met+(0.0322)Leu+(-0.1127)Trp;0.837,0.863,0.799,0.795,0.814,0.840,0.750,0.800,(5.4730)+(0.0438)Ser+(-0.0926)Asn+(-0.0753)Cit+(0.0105)Pro+(0.0022)Val+(-0.1468)Trp;0.837,0.862,0.800,0.801,0.809,0.836,0.755,0.800,(8.4512)+(0.0006)Gly+(-0.0821)His+(0.0295)Thr+(0.0092)Pro+(-0.1461)Met+(-0.1035)Trp;0.837,0.869,0.794,0.762,0.799,0.815,0.850,0.807,(5.7424)+(-0.0912)His+(-0.0624)Cit+(0.0044)Arg+(0.0533)Ile+(0.0884)Phe+(-0.1433)Trp;0.837,0.864,0.824,0.826,0.811,0.869,0.813,0.830,(4.6416)+(0.0389)Ser+(-0.0060)Gly+(0.0081)Gln+(-0.0986)His+(-0.0818)Met+(-0.0934)Trp;0.837,0.861,0.820,0.809,0.845,0.828,0.789,0.818,(5.9817)+(-0.0508)Asn+(-0.1240)Cit+(0.0530)Orn+(-0.0064)Lys+(0.0845)Phe+(-0.1616)Trp;0.837,0.861,0.748,0.719,0.707,0.853,0.837,0.779,(2.9588)+(0.0378)Ser+(-0.1024)His+(-0.0068)Ala+(-0.0281)Val+(-0.0084)Lys+(0.1395)Ile;0.837,0.862,0.782,0.764,0.756,0.826,0.851,0.799,(7.0015)+(-0.0719)His+(0.0013)Tyr+(-0.0299)Val+(0.0029)Lys+(0.1350)Ile+(-0.1120)Trp;0.837,0.869,0.813,0.808,0.810,0.803,0.837,0.815,(5.1177)+(-0.1322)Asn+(0.0256)Thr+(-0.0369)Val+(0.0552)Leu+(0.0902)Phe+(-0.1532)Trp;0.837,0.864,0.800,0.797,0.803,0.856,0.763,0.805,(4.6732)+(0.0293)Ser+(0.0073)Gln+(-0.1132)His+(-0.0210)Arg+(0.0272)Orn+(-0.0987)Trp;0.837,0.863,0.801,0.793,0.830,0.856,0.724,0.801,(4.6633)+(0.0361)Ser+(-0.1056)Cit+(0.0046)Val+(-0.1356)Met+(0.0484)Orn+(-0.1471)Trp;0.837,0.858,0.80

8,0.803,0.809,0.831,0.800,0.811,(5.6335)+(0.0087)Gln+(-0.1280)His+(0.0129)Thr+(0.0094)Val+(-0.0008)Lys+(-0.1180)Trp;0.837,0.865,0.810,0.799,0.811,0.815,0.834,0.815,(6.1975)+(-0.0248)Asn+(-0.1038)His+(-0.0017)Val+(0.0075)Lys+(0.1018)Phe+(-0.1172)Trp;0.837,0.861,0.805,0.788,0.814,0.833,0.811,0.811,(4.9323)+(0.0049)Gln+(0.0131)Thr+(-0.0990)Cit+(-0.0151)Lys+(0.0720)Ile+(-0.1817)Trp;0.837,0.861,0.802,0.799,0.812,0.848,0.760,0.805,(8.5427)+(-0.0184)Asn+(-0.0873)His+(0.0270)Thr+(-0.1038)Met+(0.0294)Orn+(-0.1019)Trp;0.837,0.862,0.775,0.758,0.782,0.844,0.759,0.786,(5.4824)+(0.0366)Ser+(-0.1128)His+(0.0093)Thr+(-0.0024)Ala+(0.0126)Val+(-0.1118)Trp;0.837,0.861,0.805,0.800,0.797,0.851,0.800,0.812,(4.8967)+(0.0347)Ser+(-0.0064)Gly+(0.0063)Gln+(-0.1124)His+(0.0084)Thr+(-0.1040)Trp;0.837,0.862,0.796,0.777,0.767,0.864,0.857,0.816,(4.0429)+(0.0073)Gln+(-0.0886)His+(-0.0385)Val+(-0.2439)Met+(0.0200)Orn+(0.1557)Ile;0.837,0.861,0.808,0.802,0.775,0.842,0.863,0.821,(5.6204)+(-0.0006)Gly+(0.0066)Thr+(-0.0088)Ala+(0.1582)Ile+(-0.0651)Leu+(-0.1410)Trp;0.837,0.868,0.790,0.799,0.797,0.800,0.746,0.786,(1.0859)+(0.0340)Ser+(-0.0296)Arg+(-0.0078)Val+(0.0117)Orn+(0.0948)Phe+(-0.1640)Trp;0.837,0.864,0.796,0.792,0.797,0.821,0.786,0.799,(1.4422)+(0.0372)Ser+(-0.0060)Ala+(-0.0986)Cit+(0.0025)Val+(0.1076)Phe+(-0.1757)Trp;0.837,0.869,0.810,0.812,0.835,0.783,0.768,0.800,(2.9012)+(0.0390)Thr+(-0.3457)Met+(-0.0094)Orn+(0.0017)Leu+(0.1339)Phe+(-0.1628)Trp;0.837,0.869,0.807,0.811,0.833,0.781,0.760,0.796,(2.9215)+(0.0394)Thr+(-0.0074)Tyr+(-0.3371)Met+(-0.0082)Orn+(0.1372)Phe+(-0.1603)Trp;0.837,0.865,0.782,0.755,0.794,0.840,0.786,0.794,(4.7669)+(0.0529)Ser+(-0.0034)Gly+(-0.1007)His+(-0.1192)Met+(0.0360)Leu+(-0.1049)Trp;0.837,0.864,0.788,0.783,0.769,0.791,0.837,0.795,(2.9911)+(0.0004)Thr+(-0.0084)Orn+(0.1394)Ile+(-0.0730)Leu+(0.0682)Phe+(-0.1614)Trp;0.837,0.863,0.787,0.768,0.776,0.829,0.829,0.801,(6.7687)+(0.0034)Gly+(-0.0822)His+(-0.0010)Pro+

(0.1168)Ile+(-0.0355)Leu+(-0.1136)Trp;0.837,0.868,0.801,0.798,0.794,0.839,0.797,0.807,(6.1913)+(0.0256)Thr+(-0.0174)Arg+(-0.2006)Met+(0.1494)Ile+(-0.0590)Leu+(-0.1325)Trp;0.837,0.863,0.775,0.759,0.790,0.789,0.775,0.778,(1.2696)+(0.0431)Ser+(-0.0039)Gly+(-0.1030)Cit+(0.0061)Pro+(0.0917)Phe+(-0.1914)Trp;0.837,0.865,0.817,0.800,0.825,0.820,0.842,0.822,(5.8131)+(0.0272)Asn+(-0.1037)His+(-0.1619)Met+(0.0139)Leu+(0.1233)Phe+(-0.1140)Trp;0.837,0.859,0.773,0.764,0.707,0.881,0.857,0.802,(2.9480)+(0.0460)Ser+(-0.1459)Asn+(-0.0071)Ala+(-0.0152)Arg+(-0.0546)Val+(0.1910)Ile;0.837,0.867,0.794,0.801,0.770,0.797,0.822,0.797,(3.9579)+(-0.0223)Arg+(-0.0382)Tyr+(0.1568)Ile+(-0.0831)Leu+(0.0971)Phe+(-0.1350)Trp;0.837,0.866,0.829,0.829,0.835,0.835,0.810,0.827,(5.9305)+(-0.0906)Asn+(0.0293)Thr+(-0.0062)Ala+(-0.0933)Cit+(0.1110)Phe+(-0.1688)Trp;0.837,0.874,0.760,0.745,0.761,0.793,0.772,0.768,(0.2988)+(0.0411)Ser+(-0.0251)Arg+(-0.0133)Lys+(0.0542)Ile+(0.0703)Phe+(-0.1771)Trp;0.837,0.862,0.751,0.732,0.702,0.839,0.840,0.778,(0.2082)+(0.0519)Ser+(-0.2587)Asn+(0.0087)Thr+(-0.0652)Val+(0.1740)Ile+(0.0937)Phe;0.837,0.860,0.800,0.797,0.754,0.845,0.874,0.818,(6.5814)+(-0.0070)Ala+(-0.0149)Arg+(-0.0345)Val+(0.1916)Ile+(-0.0257)Leu+(-0.1180)Trp;0.837,0.870,0.790,0.781,0.789,0.806,0.804,0.795,(5.3027)+(0.0041)Gly+(-0.1095)His+(0.0050)Pro+(-0.0174)Tyr+(0.1123)Phe+(-0.1122)Trp;0.837,0.868,0.773,0.758,0.734,0.874,0.823,0.797,(1.1217)+(0.0426)Ser+(0.0008)Gln+(-0.0132)Arg+(-0.0531)Val+(-0.3203)Met+(0.1967)Ile;0.837,0.864,0.807,0.791,0.809,0.852,0.814,0.816,(6.7357)+(-0.0414)Asn+(-0.0971)Cit+(0.0409)Orn+(0.1293)Ile+(-0.0557)Leu+(-0.1423)Trp;0.837,0.864,0.820,0.810,0.817,0.832,0.845,0.826,(6.4339)+(-0.0077)Asn+(-0.1014)His+(-0.0030)Ala+(0.0017)Val+(0.1068)Phe+(-0.1138)Trp;0.837,0.863,0.796,0.779,0.817,0.846,0.763,0.801,(4.4866)+(0.0302)Ser+(-0.0065)Ala+(-0.1218)Cit+(0.0508)Orn+(0.0194)Leu+(-0.1685)Trp;0.837,0.862,0.789,0.769,0.808,0.846,0.7

60,0.796,(5.9355)+(0.0464)Ser+(-0.0393)Asn+(-0.0879)His+(-0.0455)Cit+(0.0130)Val+(-0.1136)Trp;0.837,0.860,0.798,0.780,0.801,0.849,0.800,0.808,(5.6992)+(0.0049)Gly+(-0.0092)Ala+(-0.1209)Cit+(0.0438)Orn+(0.0728)Ile+(-0.1638)Trp;0.837,0.867,0.794,0.785,0.804,0.853,0.752,0.798,(6.2593)+(0.0402)Ser+(-0.0497)Asn+(-0.0868)His+(-0.0107)Arg+(0.0342)Orn+(-0.0935)Trp;0.837,0.864,0.785,0.770,0.761,0.841,0.837,0.802,(5.9971)+(0.0036)Gly+(-0.0711)Cit+(-0.0351)Val+(-0.0039)Lys+(0.1516)Ile+(-0.1403)Trp;0.837,0.863,0.801,0.798,0.814,0.847,0.750,0.802,(5.6009)+(0.0436)Ser+(-0.0947)Asn+(-0.0741)Cit+(0.0014)Arg+(0.0111)Pro+(-0.1432)Trp;0.837,0.858,0.766,0.763,0.727,0.807,0.827,0.781,(1.8214)+(0.0066)Gln+(-0.1349)His+(-0.0557)Tyr+(0.1088)Ile+(-0.0543)Leu+(0.0994)Phe;0.837,0.863,0.783,0.764,0.757,0.826,0.854,0.801,(7.1070)+(-0.0699)His+(0.0005)Pro+(0.0026)Tyr+(-0.0300)Val+(0.1361)Ile+(-0.1105)Trp;0.837,0.862,0.778,0.751,0.785,0.835,0.791,0.790,(5.2664)+(0.0518)Ser+(-0.0473)Asn+(-0.0037)Gly+(-0.1024)His+(0.0297)Leu+(-0.1098)Trp;0.837,0.875,0.755,0.741,0.729,0.826,0.794,0.772,(-4.6469)+(0.0486)Ser+(-0.0001)Gln+(-0.4192)Met+(0.1849)Ile+(-0.0969)Leu+(0.1273)Phe;0.837,0.872,0.758,0.737,0.757,0.786,0.793,0.768,(0.2120)+(0.0369)Ser+(-0.0027)Pro+(-0.0191)Lys+(0.0566)Ile+(0.0626)Phe+(-0.1758)Trp;0.837,0.862,0.809,0.788,0.811,0.835,0.840,0.819,(4.5819)+(-0.0102)Ala+(-0.1238)Cit+(0.0378)Orn+(0.0594)Ile+(0.0740)Phe+(-0.1766)Trp;0.837,0.860,0.753,0.742,0.740,0.816,0.764,0.765,(1.5723)+(0.0571)Ser+(-0.1071)Asn+(-0.1336)His+(-0.0388)Tyr+(-0.0047)Val+(0.1407)Phe;0.837,0.864,0.777,0.763,0.790,0.844,0.742,0.785,(5.7966)+(0.0420)Ser+(-0.0833)His+(-0.0380)Cit+(-0.0070)Arg+(0.0118)Pro+(-0.1105)Trp;0

.837,0.862,0.806,0.801,0.774,0.841,0.860,0.819,(5.4622)+(0.0050)Thr+(-0.0088)Ala+(0.0056)Orn+(0.1576)Ile+(-0.0657)Leu+(-0.1402)Trp;0.837,0.868,0.768,0.748,0.734,0.875,0.813,0.792,(1.3060)+(0.0418)Ser+(-0.016

4)Arg+(-0.0554)Val+(-0.3197)Met+(0.0209)Orn+(0.1955)Ile;0.837,0.864,0.782,0.764,0.791,0.843,0.768,0.791,(5.6941)+(0.0464)Ser+(-0.0040)Gly+(-0.0833)His+(-0.0381)Cit+(0.0113)Pro+(-0.1127)Trp;0.837,0.869,0.793,0.780,0.799,0.815,0.798,0.798,(5.4293)+(0.0050)Gly+(-0.1102)His+(-0.0091)Arg+(0.0044)Pro+(0.1079)Phe+(-0.1162)Trp;0.837,0.863,0.798,0.790,0.790,0.851,0.802,0.808,(6.3162)+(-0.0398)Asn+(0.0053)Gly+(-0.0778)Cit+(0.1455)Ile+(-0.0571)Leu+(-0.1401)Trp;0.837,0.862,0.786,0.776,0.797,0.798,0.783,0.788,(1.3991)+(0.0423)Ser+(-0.0040)Gly+(-0.0956)Cit+(-0.0014)Val+(0.0988)Phe+(-0.1831)Trp;0.837,0.860,0.744,0.714,0.710,0.853,0.814,0.773,(3.7753)+(0.0445)Ser+(-0.1326)Asn+(-0.0881)His+(0.0094)Thr+(-0.0388)Val+(0.1473)Ile;0.837,0.876,0.751,0.736,0.728,0.820,0.789,0.768,(-4.7716)+(0.0491)Ser+(0.0031)Pro+(-0.4305)Met+(0.1806)Ile+(-0.0964)Leu+(0.1287)Phe;0.837,0.868,0.813,0.799,0.816,0.830,0.830,0.819,(6.3842)+(-0.1047)His+(-0.0032)Ala+(-0.0083)Arg+(0.0265)Orn+(0.0992)Phe+(-0.1115)Trp;0.837,0.869,0.786,0.778,0.780,0.833,0.786,0.794,(3.2966)+(0.0437)Ser+(0.0119)Pro+(-0.0288)Val+(-0.2400)Met+(0.0632)Leu+(-0.1338)Trp;0.837,0.865,0.789,0.765,0.778,0.822,0.852,0.804,(3.1462)+(-0.1031)His+(-0.2633)Met+(0.0088)Lys+(0.1409)Ile+(-0.0717)Leu+(0.1208)Phe;0.837,0.864,0.817,0.813,0.784,0.854,0.869,0.830,(6.3160)+(-0.0396)Asn+(-0.0075)Ala+(0.0053)Lys+(0.1585)Ile+(-0.0680)Leu+(-0.1306)Trp;0.837,0.872,0.766,0.741,0.764,0.784,0.828,0.779,(0.6480)+(0.0488)Ser+(-0.0084)Gly+(-0.0199)Lys+(0.0537)Ile+(0.0593)Phe+(-0.1735)Trp;0.837,0.868,0.783,0.764,0.761,0.814,0.860,0.800,(0.5974)+(0.0409)Ser+(-0.0065)Gly+(-0.0104)Ala+(0.0611)Ile+(0.0561)Phe+(-0.1750)Trp;0.837,0.864,0.810,0.822,0.804,0.845,0.767,0.810,(3.6338)+(0.0401)Ser+(-0.0784)Asn+(0.0042)Gln+(0.0119)Pro+(-0.1497)Met+(-0.1329)Trp;0.837,0.863,0.795,0.799,0.797,0.841,0.744,0.795,(4.2279)+(0.0431)Ser+(-0.0688)Asn+(0.0113)Pro+(-0.1476)Met+(0.0180)Orn+(-0.1313)Trp;0.837,0.862,0.810,0.804

,0.797,0.844,0.828,0.818,(4.4339)+(0.0063)Gln+(-0.0766)Cit+(-0.0140)Arg+(0.1540)Ile+(-0.0637)Leu+(-0.1576)Trp;0.837,0.860,0.793,0.799,0.783,0.844,0.759,0.796,(3.7024)+(0.0386)Ser+(-0.0041)Ala+(0.0160)Pro+(-0.1930)Met+(0.0055)Lys+(-0.1344)Trp;0.837,0.864,0.779,0.758,0.787,0.846,0.770,0.790,(5.2451)+(0.0374)Ser+(-0.1108)His+(-0.0026)Ala+(0.0109)Val+(0.0228)Orn+(-0.1078)Trp;0.837,0.863,0.732,0.690,0.707,0.841,0.814,0.763,(0.4079)+(0.0455)Ser+(-0.1619)His+(-0.0082)Ala+(0.0032)Orn+(0.0521)Ile+(0.0714)Phe;0.837,0.869,0.805,0.789,0.810,0.808,0.834,0.810,(6.0989)+(-0.0222)Asn+(-0.1052)His+(0.0038)Pro+(0.0061)Lys+(0.0960)Phe+(-0.1205)Trp;0.837,0.868,0.792,0.763,0.795,0.810,0.848,0.804,(5.9650)+(-0.1078)His+(-0.0059)Arg+(0.0010)Lys+(0.0483)Ile+(0.0773)Phe+(-0.1291)Trp;0.837,0.860,0.790,0.777,0.761,0.831,0.858,0.807,(1.9917)+(-0.0843)Asn+(0.0099)Gln+(-0.1384)His+(0.0962)Ile+(-0.0512)Leu+(0.0767)Phe;0.837,0.865,0.809,0.783,0.800,0.851,0.864,0.824,(7.8237)+(-0.0678)His+(-0.0061)Ala+(-0.0582)Cit+(0.0103)Arg+(0.0819)Ile+(-0.1254)Trp;0.837,0.863,0.747,0.715,0.717,0.856,0.816,0.776,(3.5600)+(0.0454)Ser+(-0.1318)Asn+(-0.0871)His+(-0.0399)Val+(0.0263)Orn+(0.1447)Ile;0.837,0.863,0.787,0.793,0.761,0.791,0.820,0.791,(3.2681)+(-0.0026)Pro+(-0.0429)Tyr+(0.1493)Ile+(-0.0778)Leu+(0.0899)Phe+(-0.1426)Trp;0.837,0.861,0.777,0.754,0.788,0.833,0.774,0.787,(5.4801)+(0.0428)Ser+(-0.0050)Gly+(-0.1111)His+(0.0096)Thr+(0.0105)Val+(-0.1149)Trp;0.837,0.869,0.806,0.800,0.797,0.833,0.818,0.812,(5.5582)+(0.0045)Gly+(-0.1082)His+(-0.0025)Ala+(-0.0070)Tyr+(0.1167)Phe+(-0.1101)Trp;0.837,0.865,0.838,0.826,0.840,0.853,0.853,0.843,(4.5403)+(-0.0428)Asn+(0.0087)Gln+(-0.0781)Cit+(-0.1229)Met+(0.0689)Ile+(-0.1589)Trp;0.837,0.863,0.780,0.761,0.804,0.834,0.742,0.785,(4.2145)+(0.0287)Ser+(-0.1138)Cit+(-0.0207)Val+(0.0489)Orn+(0.0449)Leu+(-0.1760)Trp;0.837,0.862,0.787,0.766,0.800,0.847,0.774,0.797,(5.5617)+(0.0445)Ser+(-0.0461)Asn+(-0.1018)His+(0.0159)

Tyr+(0.0101)Val+(-0.1116)Trp;0.837,0.862,0.756,0.724,0.770,0.830,0.758,0.771,(5.0375)+(0.0388)Ser+(-0.1209)His+(0.0112)Thr+(-0.0056)Lys+(0.0339)Leu+(-0.1180)Trp;0.837,0.871,0.808,0.801,0.797,0.816,0.841,0.814,(6.1882)+(-0.0991)His+(-0.0046)Ala+(0.0089)Pro+(-0.0145)Tyr+(0.1108)Phe+(-0.1112)Trp;0.837,0.870,0.808,0.798,0.807,0.825,0.828,0.814,(6.1082)+(-0.1064)His+(-0.0027)Ala+(-0.0154)Tyr+(0.0259)Orn+(0.1042)Phe+(-0.1076)Trp;0.837,0.865,0.798,0.791,0.747,0.844,0.887,0.817,(5.8634)+(-0.0080)Ala+(0.0051)Tyr+(-0.0410)Val+(-0.0017)Lys+(0.1692)Ile+(-0.1275)Trp;0.837,0.862,0.777,0.753,0.782,0.843,0.782,0.790,(5.2345)+(0.0468)Ser+(-0.0452)Asn+(-0.1040)His+(-0.0018)Ala+(0.0325)Leu+(-0.1073)Trp;0.837,0.867,0.806,0.791,0.815,0.867,0.782,0.814,(5.4471)+(0.0417)Ser+(-0.0927)His+(0.0414)Tyr+(-0.1504)Met+(0.0099)Lys+(-0.1124)Trp;0.837,0.865,0.823,0.826,0.818,0.880,0.782,0.826,(4.7486)+(0.0318)Ser+(0.0080)Gln+(-0.0911)His+(-0.0356)Cit+(-0.0743)Met+(-0.0957)Trp;0.837,0.863,0.827,0.818,0.840,0.842,0.812,0.828,(5.9357)+(-0.0501)Asn+(-0.0061)Ala+(-0.1226)Cit+(0.0536)Orn+(0.0928)Phe+(-0.1572)Trp;0.837,0.868,0.782,0.761,0.805,0.831,0.753,0.788,(5.1326)+(0.0069)Gly+(-0.0989)His+(-0.0979)Cit+(0.0460)Orn+(0.1103)Phe+(-0.1316)Trp;0.837,0.862,0.752,0.739,0.747,0.815,0.753,0.764,(1.6229)+(0.0582)Ser+(-0.1023)Asn+(-0.1306)His+(-0.0363)Cit+(-0.0423)Tyr+(0.1372)Phe;0.837,0.868,0.822,0.805,0.830,0.825,0.848,0.827,(6.0061)+(-0.0995)His+(0.0066)Arg+(-0.1505)Met+(0.0132)Leu+(0.1203)Phe+(-0.1130)Trp;0.837,0.861,0.807,0.804,0.772,0.838,0.867,0.820,(5.6663)+(0.0002)Gly+(-0.0092)Ala+(0.0040)Pro+(0.1565)Ile+(-0.0655)Leu+(-0.1354)Trp;0.837,0.865,0.811,0.807,0.833,0.870,0.735,0.811,(4.3687)+(0.0320)Ser+(0.0024)Gln+(-0.1031)Cit+(-0.1369)Met+(0.0491)Orn+(-0.1431)Trp;0.837,0.862,0.754,0.727,0.748,0.836,0.783,0.773,(1.4228)+(0.0547)Ser+(-0.1038)Asn+(-0.1454)His+(-0.0046)Ala+(0.0168)Orn+(0.1113)Phe;0.837,0.861,0.793,0.781,0.828,0.845,0.718,0.793,

(4.9505)+(0.0314)Ser+(-0.1211)Cit+(0.0054)Val+(0.0530)Orn+(-0.0117)Lys+(-0.1612)Trp;0.837,0.859,0.796,0.781,0.799,0.824,0.808,0.803,(5.4914)+(0.0000)Gly+(0.0082)Gln+(-0.1346)His+(0.0142)Thr+(0.0257)Leu+(-0.1245)Trp;0.837,0.866,0.748,0.702,0.766,0.849,0.759,0.769,(2.4709)+(0.0499)Ser+(-0.1204)His+(-0.0555)Cit+(-0.2168)Met+(0.0281)Orn+(0.0754)Ile;0.837,0.862,0.767,0.751,0.786,0.790,0.750,0.769,(1.0657)+(0.0381)Ser+(-0.1089)Cit+(0.0060)Pro+(0.0016)Leu+(0.0923)Phe+(-0.1926)Trp;0.837,0.862,0.777,0.748,0.784,0.825,0.807,0.791,(6.8753)+(-0.0118)Asn+(0.0039)Gly+(-0.1028)His+(0.0214)Orn+(0.0617)Ile+(-0.1176)Trp;0.837,0.870,0.755,0.734,0.754,0.779,0.798,0.766,(0.1579)+(0.0375)Ser+(-0.0087)Orn+(-0.0185)Lys+(0.0558)Ile+(0.0661)Phe+(-0.1787)Trp;0.837,0.868,0.770,0.753,0.727,0.871,0.830,0.795,(1.0900)+(0.0396)Ser+(-0.0511)Val+(-0.3416)Met+(0.0022)Lys+(0.2098)Ile+(-0.0129)Leu;0.837,0.865,0.801,0.778,0.797,0.840,0.843,0.815,(7.4250)+(-0.0567)His+(-0.0492)Cit+(0.0007)Arg+(0.1244)Ile+(-0.0403)Leu+(-0.1220)Trp;0.837,0.858,0.750,0.709,0.730,0.852,0.827,0.780,(2.9037)+(0.0512)Ser+(-0.0045)Gly+(-0.1317)His+(-0.0069)Ala+(-0.0111)Lys+(0.0776)Ile;0.837,0.856,0.761,0.723,0.737,0.857,0.844,0.790,(1.7137)+(0.0424)Ser+(-0.0053)Gly+(0.0048)Gln+(-0.1538)His+(-0.0074)Ala+(0.0666)Ile;0.836,0.872,0.765,0.771,0.757,0.774,0.760,0.765,(0.6356)+(0.0351)Ser+(0.0054)Pro+(-0.0417)Tyr+(-0.0110)Lys+(0.1026)Phe+(-0.1596)Trp;0.836,0.869,0.771,0.773,0.755,0.784,0.791,0.776,(0.8406)+(0.0302)Ser+(-0.0374)Tyr+(-0.0234)Val+(0.0368)Leu+(0.1005)Phe+(-0.1685)Trp;0.836,0.867,0.807,0.811,0.831,0.779,0.765,0.796,(3.1111)+(-0.0015)Gly+(0.0387)Thr+(-0.0102)Tyr+(-0.3287)Met+(0.1317)Phe+(-0.1593)Trp;0.836,0.867,0.789,0.776,0.790,0.812,0.806,0.796,(5.4190)+(0.0046)Gly+(-0.1157)His+(-0.0130)Tyr+(0.0119)Leu+(0.1044)Phe+(-0.1172)Trp;0.836,0.860,0.813,0.814,0.775,0.845,0.866,0.825,(4.5899)+(0.0034)Gln+(-0.0085)Ala+(-0.0061)Tyr+(0.1616)Ile+(-0.0672)Leu+(-0.1398)Tr

p;0.836,0.870,0.772,0.780,0.765,0.784,0.754,0.771,(0.8707)+(0.0328)Se
r+(0.0051)Thr+(-0.0403)Tyr+(-0.0117)Lys+(0.1054)Phe+(-0.1595)Trp;0.83
6,0.865,0.807,0.796,0.814,0.868,0.780,0.814,(6.0411)+(0.0446)Ser+(-0.
0309)Asn+(-0.0839)His+(0.0418)Tyr+(-0.0990)Met+(-0.1055)Trp;0.836,0.8
57,0.770,0.766,0.736,0.796,0.831,0.782,(4.2924)+(-0.0313)Asn+(-0.1021
)His+(-0.0562)Tyr+(0.1229)Ile+(-0.0640)Leu+(0.1077)Phe;0.836,0.865,0.
802,0.790,0.801,0.852,0.801,0.811,(4.5930)+(0.0355)Ser+(-0.0059)Gly+(
0.0059)Gln+(-0.1127)His+(0.0221)Orn+(-0.1020)Trp;0.836,0.869,0.816,0.
820,0.833,0.805,0.779,0.809,(3.0259)+(0.0376)Thr+(-0.0036)Ala+(-0.322
2)Met+(0.0029)Leu+(0.1303)Phe+(-0.1592)Trp;0.836,0.868,0.820,0.804,0.
830,0.819,0.841,0.823,(5.7849)+(-0.1050)His+(-0.1790)Met+(0.0139)Lys+
(0.0070)Leu+(0.1254)Phe+(-0.1186)Trp;0.836,0.866,0.794,0.789,0.800,0.
821,0.778,0.797,(1.6137)+(0.0342)Ser+(0.0069)Thr+(-0.0062)Ala+(-0.100
0)Cit+(0.1095)Phe+(-0.1783)Trp;0.836,0.865,0.774,0.743,0.786,0.839,0.
784,0.788,(5.0283)+(0.0476)Ser+(-0.0527)Asn+(-0.1086)His+(0.0148)Tyr+
(0.0295)Leu+(-0.1148)Trp;0.836,0.863,0.785,0.790,0.760,0.786,0.821,0.
789,(3.2756)+(-0.0441)Tyr+(-0.0013)Lys+(0.1448)Ile+(-0.0760)Leu+(0.09
04)Phe+(-0.1425)Trp;0.836,0.863,0.778,0.779,0.784,0.794,0.750,0.777,(
1.2279)+(0.0388)Ser+(-0.0972)Cit+(-0.0347)Tyr+(-0.0005)Val+(0.1188)Ph
e+(-0.1722)Trp;0.836,0.863,0.737,0.693,0.717,0.849,0.813,0.768,(0.472
2)+(0.0484)Ser+(-0.1467)His+(-0.0093)Ala+(-0.0548)Cit+(0.0610)Ile+(0.
0753)Phe;0.836,0.861,0.737,0.720,0.729,0.806,0.751,0.752,(1.2826)+(0.
0576)Ser+(-0.1049)Asn+(-0.1391)His+(0.0064)Pro+(-0.0479)Tyr+(0.1290)P
he;0.836,0.858,0.808,0.803,0.809,0.830,0.803,0.811,(5.6364)+(-0.0003)
Gly+(0.0087)Gln+(-0.1280)His+(0.0128)Thr+(0.0092)Val+(-0.1184)Trp;0.8
36,0.871,0.802,0.805,0.786,0.824,0.811,0.806,(0.9457)+(0.0339)Ser+(-0
.0000)Gln+(-0.0060)Ala+(-0.0095)Lys+(0.0938)Phe+(-0.1583)Trp;0.836,0.
866,0.801,0.778,0.797,0.840,0.843,0.815,(7.4328)+(-0.0566)His+(-0.049

0)Cit+(0.0007)Pro+(0.1237)Ile+(-0.0403)Leu+(-0.1222)Trp;0.836,0.861,0.797,0.797,0.795,0.825,0.783,0.800,(3.7677)+(0.0510)Ser+(-0.0079)Gly+(0.0137)Pro+(-0.2111)Met+(0.0049)Lys+(-0.1406)Trp;0.836,0.867,0.822,0.810,0.830,0.819,0.838,0.824,(5.7314)+(-0.1033)His+(-0.0008)Arg+(-0.1788)Met+(0.0156)Lys+(0.1313)Phe+(-0.1162)Trp;0.836,0.860,0.823,0.819,0.842,0.829,0.793,0.820,(6.0070)+(-0.0683)Asn+(-0.1174)Cit+(-0.0075)Val+(0.0542)Orn+(0.0910)Phe+(-0.1526)Trp;0.836,0.863,0.772,0.772,0.786,0.791,0.732,0.770,(1.3472)+(0.0355)Ser+(0.0085)Thr+(-0.1019)Cit+(-0.0408)Tyr+(0.1193)Phe+(-0.1786)Trp;0.836,0.871,0.801,0.803,0.788,0.822,0.811,0.806,(0.9671)+(0.0335)Ser+(-0.0062)Ala+(0.0073)Orn+(-0.0104)Lys+(0.0902)Phe+(-0.1571)Trp;0.836,0.861,0.807,0.802,0.773,0.840,0.864,0.820,(5.5759)+(-0.0092)Ala+(0.0035)Pro+(0.0071)Orn+(0.1551)Ile+(-0.0660)Leu+(-0.1359)Trp;0.836,0.861,0.780,0.772,0.794,0.798,0.756,0.780,(1.1512)+(0.0368)Ser+(0.0003)Gln+(-0.1018)Cit+(-0.0012)Val+(0.1001)Phe+(-0.1839)Trp;0.836,0.876,0.755,0.740,0.732,0.826,0.789,0.772,(-4.6840)+(0.0474)Ser+(0.0033)Thr+(-0.4311)Met+(0.1833)Ile+(-0.0960)Leu+(0.1277)Phe;0.836,0.861,0.825,0.829,0.818,0.851,0.812,0.828,(6.4868)+(-0.0804)Asn+(0.0099)Gln+(-0.1069)His+(0.0181)Thr+(0.0055)Lys+(-0.1081)Trp;0.836,0.858,0.793,0.792,0.788,0.846,0.766,0.798,(4.7085)+(0.0264)Ser+(0.0059)Gln+(-0.1147)His+(0.0064)Thr+(0.0023)Lys+(-0.1042)Trp;0.836,0.870,0.805,0.811,0.829,0.783,0.756,0.795,(2.9365)+(0.0381)Thr+(-0.0090)Tyr+(-0.3291)Met+(-0.0017)Lys+(0.1332)Phe+(-0.1576)Trp;0.836,0.861,0.815,0.810,0.782,0.852,0.873,0.829,(6.4403)+(-0.0319)Asn+(-0.0084)Ala+(0.0046)Pro+(0.1523)Ile+(-0.0638)Leu+(-0.1280)Trp;0.836,0.862,0.834,0.822,0.835,0.852,0.853,0.841,(4.9749)+(-0.0660)Asn+(0.0084)Gln+(-0.0897)Cit+(-0.0065)Lys+(0.0662)Ile+(-0.1673)Trp;0.836,0.866,0.821,0.801,0.816,0.844,0.864,0.831,(6.9894)+(-0.0088)Ala+(-0.0753)Cit+(0.0103)Pro+(-0.0756)Met+(0.0762)

Ile+(-0.1475)Trp;0.836,0.862,0.784,0.771,0.797,0.800,0.778,0.786,(1.4096)+(0.0413)Ser+(-0.0041)Gly+(0.0025)Thr+(-0.0984)Cit+(0.0962)Phe+(-0.1877)Trp;0.836,0.868,0.802,0.793,0.813,0.830,0.782,0.805,(5.6835)+(-0.0258)Asn+(0.0078)Gly+(-0.0931)His+(-0.0638)Cit+(0.1255)Phe+(-0.1210)Trp;0.836,0.865,0.819,0.818,0.824,0.850,0.789,0.820,(3.9727)+(0.0391)Ser+(-0.1161)Asn+(0.0057)Gln+(-0.0801)Cit+(0.0194)Leu+(-0.1558)Trp;0.836,0.864,0.787,0.768,0.794,0.845,0.779,0.797,(5.8102)+(0.0387)Ser+(-0.0055)Gly+(-0.1011)His+(0.0072)Thr+(0.0248)Orn+(-0.1039)Trp;0.836,0.861,0.752,0.737,0.740,0.812,0.774,0.766,(1.5944)+(0.0603)Ser+(-0.0968)Asn+(-0.0030)Gly+(-0.1377)His+(-0.0443)Tyr+(0.1318)Phe;0.836,0.856,0.798,0.798,0.789,0.852,0.779,0.804,(4.5355)+(0.0283)Ser+(0.0063)Gln+(-0.1118)His+(-0.0006)Ala+(0.0039)Lys+(-0.1015)Trp;0.836,0.873,0.772,0.771,0.775,0.777,0.766,0.772,(0.5597)+(0.0339)Ser+(0.0028)Pro+(0.0011)Orn+(-0.0131)Lys+(0.0818)Phe+(-0.1688)Trp;0.836,0.871,0.794,0.781,0.796,0.805,0.815,0.799,(5.8530)+(-0.1081)His+(0.0042)Pro+(-0.0241)Tyr+(0.0229)Orn+(0.1008)Phe+(-0.1097)Trp;0.836,0.867,0.758,0.729,0.775,0.829,0.748,0.771,(5.3261)+(0.0391)Ser+(-0.1202)His+(0.0143)Thr+(-0.0148)Arg+(0.0306)Leu+(-0.1197)Trp;0.836,0.866,0.765,0.748,0.728,0.821,0.851,0.787,(2.9527)+(0.0376)Ser+(-0.0080)Gly+(-0.0005)Pro+(-0.0403)Val+(0.1483)Ile+(-0.1463)Trp;0.836,0.864,0.814,0.799,0.811,0.829,0.850,0.822,(6.4318)+(-0.0039)Asn+(-0.1055)His+(-0.0036)Ala+(0.0128)Leu+(0.0984)Phe+(-0.1189)Trp;0.836,0.863,0.804,0.787,0.810,0.808,0.836,0.810,(6.2080)+(-0.0162)Asn+(-0.1084)His+(0.0049)Lys+(0.0074)Leu+(0.0934)Phe+(-0.1220)Trp;0.836,0.863,0.795,0.794,0.795,0.830,0.775,0.798,(3.6849)+(0.0511)Ser+(-0.0084)Gly+(0.0122)Pro+(-0.2042)Met+(0.0179)Orn+(-0.1382)Trp;0.836,0.861,0.775,0.746,0.781,0.823,0.807,0.789,(6.7481)+(0.0036)Gly+(-0.1056)His+(-0.0010)Pro+(0.0212)Orn+(0.0634)Ile+(-0.1189)Trp;0.836,0.861,0.812,0.788,0.820,0.853,0.829,0.822,(7.1296)+(-0.008

3)Ala+(-0.1169)Cit+(0.0515)Orn+(-0.0106)Lys+(0.0735)Ile+(-0.1511)Trp;0.836,0.870,0.769,0.774,0.761,0.771,0.773,0.770,(0.5294)+(0.0286)Ser+(0.0037)Pro+(-0.0083)Val+(-0.0002)Orn+(0.0827)Phe+(-0.1723)Trp;0.836,0.864,0.787,0.766,0.779,0.828,0.828,0.800,(3.2712)+(0.0537)Ser+(-0.0959)Asn+(-0.0067)Gly+(-0.0072)Lys+(0.0613)Ile+(-0.1499)Trp;0.836,0.862,0.772,0.746,0.783,0.836,0.775,0.785,(5.1604)+(0.0468)Ser+(-0.0495)Asn+(-0.1054)His+(0.0008)Lys+(0.0304)Leu+(-0.1095)Trp;0.836,0.867,0.824,0.814,0.830,0.824,0.841,0.827,(5.7745)+(0.0191)Asn+(-0.0971)His+(0.0033)Arg+(-0.1525)Met+(0.1332)Phe+(-0.1070)Trp;0.836,0.864,0.775,0.773,0.782,0.793,0.749,0.774,(1.1759)+(0.0388)Ser+(-0.0992)Cit+(-0.0352)Tyr+(0.0050)Leu+(0.1139)Phe+(-0.1767)Trp;0.836,0.862,0.753,0.742,0.745,0.817,0.751,0.764,(1.5894)+(0.0589)Ser+(-0.0888)Asn+(-0.1378)His+(-0.0151)Arg+(-0.0402)Tyr+(0.1365)Phe;0.836,0.861,0.816,0.817,0.795,0.837,0.843,0.823,(4.8001)+(-0.0983)Asn+(0.0054)Gln+(0.0075)Thr+(0.1318)Ile+(-0.0609)Leu+(-0.1408)Trp;0.836,0.872,0.819,0.804,0.819,0.839,0.848,0.827,(6.5630)+(-0.0825)His+(-0.0065)Ala+(-0.0619)Cit+(0.0112)Pro+(0.1196)Phe+(-0.1259)Trp;0.836,0.867,0.804,0.787,0.814,0.818,0.816,0.809,(6.1962)+(-0.1064)His+(-0.0094)Arg+(-0.0021)Val+(0.0263)Orn+(0.0971)Phe+(-0.1125)Trp;0.836,0.867,0.758,0.724,0.748,0.858,0.797,0.782,(2.4944)+(0.0529)Ser+(-0.1201)His+(-0.0048)Ala+(-0.0080)Arg+(-0.1862)Met+(0.0912)Ile;0.836,0.862,0.775,0.745,0.781,0.822,0.807,0.789,(6.6850)+(0.0036)Gly+(-0.1064)His+(0.0203)Orn+(0.0010)Lys+(0.0618)Ile+(-0.1198)Trp;0.836,0.860,0.806,0.783,0.827,0.838,0.802,0.813,(5.0318)+(0.0051)Gln+(-0.1239)Cit+(0.0424)Orn+(-0.0154)Lys+(0.0619)Ile+(-0.1745)Trp;0.836,0.859,0.825,0.810,0.836,0.850,0.820,0.829,(5.0943)+(-0.0811)Asn+(0.0070)Gln+(-0.1120)Cit+(0.0360)Orn+(0.0500)Ile+(-0.1716)Trp;0.836,0.866,0.772,0.756,0.732,0.875,0.822,0.796,(1.2031)+(0.0427)Ser+(-0.0150)Arg+(-0.0550)Val+(-0.3333)Met+(0.0057)Lys+(0.1990)Ile;0.836,0.864

,0.818,0.809,0.816,0.840,0.834,0.825,(5.1934)+(0.0111)Gln+(-0.1165)His+(0.0067)Pro+(-0.1115)Met+(0.0249)Leu+(-0.1100)Trp;0.836,0.862,0.814,0.796,0.806,0.840,0.862,0.826,(6.9396)+(-0.0141)Asn+(-0.0098)Ala+(-0.0818)Cit+(0.0097)Pro+(0.0745)Ile+(-0.1557)Trp;0.836,0.861,0.774,0.757,0.720,0.841,0.885,0.801,(3.8836)+(-0.0981)His+(-0.0076)Ala+(-0.0310)Val+(0.1485)Ile+(-0.0231)Leu+(0.0739)Phe;0.836,0.855,0.791,0.775,0.790,0.824,0.810,0.800,(5.7065)+(0.0076)Gln+(-0.1301)His+(0.0159)Thr+(-0.0142)Val+(0.0478)Leu+(-0.1229)Trp;0.836,0.860,0.821,0.806,0.812,0.837,0.868,0.831,(5.0200)+(-0.0261)Asn+(-0.0091)Ala+(-0.0923)Cit+(0.0668)Ile+(0.0845)Phe+(-0.1689)Trp;0.836,0.869,0.804,0.793,0.806,0.815,0.821,0.809,(6.1714)+(-0.0145)Asn+(-0.1051)His+(-0.0200)Tyr+(0.0258)Orn+(0.1021)Phe+(-0.1072)Trp;0.836,0.868,0.779,0.776,0.775,0.799,0.779,0.782,(1.0465)+(0.0348)Ser+(-0.0270)Arg+(-0.0253)Val+(0.0400)Leu+(0.0937)Phe+(-0.1728)Trp;0.836,0.866,0.805,0.811,0.798,0.824,0.790,0.806,(1.1562)+(0.0355)Ser+(-0.0052)Ala+(-0.0249)Arg+(-0.0034)Val+(0.1031)Phe+(-0.1595)Trp;0.836,0.866,0.775,0.784,0.746,0.798,0.794,0.781,(0.7414)+(0.0317)Ser+(-0.0079)Ala+(0.0101)Pro+(-0.0341)Tyr+(0.0974)Phe+(-0.1604)Trp;0.836,0.865,0.799,0.796,0.802,0.823,0.783,0.801,(1.5759)+(0.0385)Ser+(-0.0053)Ala+(-0.0901)Cit+(-0.0088)Arg+(0.1121)Phe+(-0.1709)Trp;0.836,0.859,0.752,0.726,0.742,0.829,0.787,0.771,(1.4273)+(0.0564)Ser+(-0.0994)Asn+(-0.1466)His+(-0.0045)Ala+(0.0066)Leu+(0.1096)Phe;0.836,0.866,0.785,0.772,0.759,0.838,0.835,0.801,(5.8099)+(0.0033)Gly+(-0.0706)Cit+(-0.0015)Tyr+(-0.0356)Val+(0.1498)Ile+(-0.1436)Trp;0.836,0.864,0.784,0.762,0.763,0.835,0.848,0.802,(2.6805)+(0.0464)Ser+(-0.0069)Gly+(-0.0081)Ala+(-0.0134)Lys+(0.0819)Ile+(-0.1526)Trp;0.836,0.857,0.750,0.708,0.741,0.840,0.815,0.776,(1.8448)+(0.0454)Ser+(-0.0061)Gly+(0.0059)Gln+(-0.1558)His+(-0.0150)Lys+(0.0612)Ile;0.836,0.863,0.790,0.773,0.817,0.834,0.748,0.793,(4.5085)+(0.0352)Ser+(-0.0049)Gly+(-0.1

127)Cit+(0.0064)Pro+(0.0439)Orn+(-0.1730)Trp;0.836,0.860,0.754,0.716,0.734,0.854,0.825,0.782,(3.1310)+(0.0524)Ser+(-0.0615)Asn+(-0.0030)Gly+(-0.1289)His+(-0.0068)Ala+(0.0724)Ile;0.836,0.863,0.772,0.747,0.785,0.839,0.759,0.783,(5.1003)+(0.0373)Ser+(-0.1124)His+(0.0097)Val+(0.0213)Orn+(-0.0006)Lys+(-0.1096)Trp;0.836,0.864,0.823,0.809,0.834,0.822,0.835,0.825,(5.9467)+(-0.0912)His+(-0.0400)Cit+(-0.1605)Met+(0.0135)Lys+(0.1378)Phe+(-0.1231)Trp;0.836,0.868,0.810,0.809,0.793,0.814,0.847,0.816,(4.5000)+(-0.0406)Asn+(-0.0195)Arg+(0.1448)Ile+(-0.0771)Leu+(0.0794)Phe+(-0.1418)Trp;0.836,0.865,0.783,0.769,0.743,0.870,0.843,0.806,(3.8619)+(0.0306)Thr+(0.0105)Tyr+(-0.0620)Val+(-0.4052)Met+(0.0003)Lys+(0.2109)Ile;0.836,0.862,0.807,0.801,0.774,0.843,0.861,0.820,(5.6148)+(0.0070)Thr+(-0.0087)Ala+(-0.0018)Lys+(0.1579)Ile+(-0.0640)Leu+(-0.1400)Trp;0.836,0.861,0.785,0.769,0.760,0.828,0.850,0.802,(7.5398)+(-0.0618)His+(-0.0104)Arg+(-0.0302)Val+(0.1479)Ile+(-0.0065)Leu+(-0.1066)Trp;0.836,0.868,0.806,0.789,0.816,0.821,0.820,0.811,(6.3303)+(-0.0107)Asn+(-0.1057)His+(-0.0076)Arg+(0.0252)Orn+(0.0940)Phe+(-0.1138)Trp;0.836,0.860,0.802,0.791,0.823,0.854,0.751,0.805,(4.8531)+(0.0290)Ser+(-0.0058)Ala+(-0.1208)Cit+(0.0054)Val+(0.0526)Orn+(-0.1599)Trp;0.836,0.867,0.803,0.792,0.797,0.854,0.807,0.813,(6.1083)+(0.0050)Gly+(-0.0686)Cit+(-0.1140)Met+(0.1540)Ile+(-0.0576)Leu+(-0.1303)Trp;0.836,0.861,0.771,0.757,0.781,0.834,0.741,0.778,(5.4485)+(0.0405)Ser+(-0.0994)His+(-0.0171)Arg+(0.0107)Pro+(0.0081)Lys+(-0.1087)Trp;0.836,0.860,0.752,0.716,0.735,0.859,0.808,0.780,(3.1770)+(0.0493)Ser+(-0.0559)Asn+(-0.1254)His+(-0.0065)Ala+(-0.0067)Lys+(0.0774)Ile;0.836,0.863,0.810,0.804,0.840,0.826,0.750,0.805,(3.7853)+(0.0055)Gly+(-0.1188)Cit+(-0.1727)Met+(0.0450)Orn+(0.1162)Phe+(-0.1571)Trp;0.836,0.868,0.838,0.835,0.856,0.833,0.810,0.834,(2.3173)+(0.0067)Gln+(-0.1129)Cit+(-0.2017)Met+(0.0370)Orn+(0.1156)Phe+(-0.1624)Trp;0.836,0.863,0.804,0.783,0.775,0

.869,0.871,0.824,(3.5802)+(0.0089)Gln+(-0.0905)His+(0.0227)Tyr+(-0.0387)Val+(-0.2812)Met+(0.1606)Ile;0.836,0.864,0.796,0.774,0.803,0.803,0.832,0.803,(5.9206)+(-0.1116)His+(0.0030)Pro+(0.0031)Lys+(0.0074)Leu+(0.0913)Phe+(-0.1241)Trp;0.836,0.864,0.775,0.760,0.785,0.801,0.773,0.780,(1.2538)+(0.0369)Ser+(-0.0963)Cit+(-0.0143)Val+(0.0270)Leu+(0.0940)Phe+(-0.1860)Trp;0.836,0.863,0.774,0.771,0.760,0.830,0.774,0.783,(2.5906)+(0.0344)Ser+(0.0018)Gln+(-0.0357)Arg+(0.1670)Ile+(-0.0744)Leu+(-0.1464)Trp;0.836,0.860,0.713,0.663,0.712,0.813,0.774,0.740,(0.6443)+(0.0498)Ser+(-0.1629)His+(0.0008)Thr+(-0.0191)Lys+(0.0479)Ile+(0.0815)Phe;0.836,0.859,0.811,0.801,0.802,0.841,0.836,0.820,(5.5085)+(0.0097)Gln+(-0.1225)His+(-0.0044)Ala+(0.0073)Pro+(0.0245)Leu+(-0.1167)Trp;0.836,0.872,0.750,0.726,0.753,0.778,0.787,0.761,(0.4295)+(0.0386)Ser+(-0.0013)Gln+(-0.0188)Lys+(0.0540)Ile+(0.0630)Phe+(-0.1748)Trp;0.836,0.863,0.759,0.730,0.774,0.825,0.760,0.772,(4.8570)+(0.0444)Ser+(-0.1124)His+(-0.0119)Arg+(0.0071)P

ro+(0.0272)Leu+(-0.1168)Trp;0.836,0.861,0.777,0.756,0.752,0.824,0.853,0.796,(2.2226)+(0.0407)Ser+(-0.0067)Gly+(-0.0104)Ala+(0.0062)Pro+(0.0678)Ile+(-0.1651)Trp;0.836,0.861,0.817,0.806,0.818,0.842,0.829,0.824,(5.6636)+(-0.0447)Asn+(0.0104)Gln+(-0.1210)His+(0.0189)Orn+(0.0208)Leu+(-0.1123)Trp;0.836,0.861,0.791,0.768,0.779,0.829,0.848,0.806,(3.6374)+(-0.0953)His+(-0.0027)Arg+(-0.2412)Met+(0.1404)Ile+(-0.0686)Leu+(0.1199)Phe;0.836,0.861,0.822,0.813,0.823,0.851,0.825,0.828,(4.5450)+(-0.0851)Asn+(0.0042)Gly+(0.0076)Gln+(-0.0935)Cit+(0.0638)Ile+(-0.1693)Trp;0.836,0.868,0.797,0.787,0.801,0.819,0.798,0.801,(5.5336)+(0.0051)Gly+(-0.1115)His+(-0.0076)Arg+(0.0010)Val+(0.1101)Phe+(-0.1147)Trp;0.836,0.865,0.775,0.757,0.750,0.834,0.832,0.793,(2.3935)+(0.0359)Ser+(-0.0098)Ala+(0.0052)Pro+(-0.0128)Lys+(0.0776)Ile+(-0.1522)Trp;0.836,0.864,0.786,0.766,0.775,0.829,0.830,0.800,(6.7352)+(0.0033)Gly+(-0.082

8)His+(0.0006)Tyr+(0.1148)Ile+(-0.0350)Leu+(-0.1141)Trp;0.836,0.861,0.769,0.749,0.782,0.832,0.749,0.778,(5.3135)+(0.0367)Ser+(-0.1141)His+(0.0081)Thr+(0.0113)Val+(-0.0002)Lys+(-0.1133)Trp;0.836,0.863,0.783,0.764,0.759,0.826,0.854,0.801,(7.1013)+(-0.0692)His+(0.0027)Tyr+(-0.0291)Val+(0.1388)Ile+(-0.0030)Leu+(-0.1103)Trp;0.836,0.861,0.753,0.723,0.761,0.827,0.763,0.768,(5.0413)+(0.0367)Ser+(-0.1197)His+(0.0119)Thr+(-0.0159)Val+(0.0552)Leu+(-0.1193)Trp;0.836,0.864,0.791,0.773,0.810,0.851,0.756,0.798,(5.5971)+(0.0461)Ser+(-0.0905)His+(-0.0427)Cit+(0.0154)Val+(-0.0784)Met+(-0.1108)Trp;0.836,0.862,0.754,0.736,0.705,0.847,0.840,0.782,(0.2024)+(0.0524)Ser+(-0.2490)Asn+(-0.0646)Val+(0.0176)Orn+(0.1701)Ile+(0.0880)Phe;0.836,0.861,0.749,0.734,0.739,0.817,0.761,0.763,(1.5473)+(0.0570)Ser+(-0.0968)Asn+(-0.1385)His+(-0.0397)Tyr+(-0.0030)Lys+(0.1340)Phe;0.836,0.859,0.796,0.781,0.799,0.824,0.808,0.803,(5.4984)+(0.0082)Gln+(-0.1345)His+(0.0142)Thr+(-0.0003)Tyr+(0.0257)Leu+(-0.1245)Trp;0.836,0.864,0.805,0.805,0.778,0.846,0.833,0.816,(6.3072)+(0.0147)Thr+(-0.0082)Ala+(-0.0235)Arg+(0.1661)Ile+(-0.0687)Leu+(-0.1392)Trp;0.836,0.862,0.785,0.765,0.780,0.824,0.822,0.798,(3.3160)+(0.0511)Ser+(-0.1165)Asn+(-0.0066)Gly+(0.0038)Thr+(0.0554)Ile+(-0.1564)Trp;0.836,0.861,0.801,0.795,0.753,0.846,0.885,0.820,(6.3566)+(-0.0076)Ala+(-0.0149)Arg+(0.0101)Tyr+(-0.0430)Val+(0.1747)Ile+(-0.1243)Trp;0.836,0.855,0.742,0.698,0.720,0.849,0.826,0.773,(2.4610)+(0.0478)Ser+(-0.0042)Gly+(-0.1404)His+(-0.0086)Ala+(0.0050)Pro+(0.0656)Ile;0.836,0.858,0.810,0.807,0.801,0.841,0.811,0.815,(5.9039)+(0.0084)Gln+(-0.1104)His+(-0.0042)Ala+(0.0091)Pro+(0.0235)Orn+(-0.1046)Trp;0.836,0.859,0.808,0.802,0.777,0.841,0.862,0.821,(5.5765)+(-0.0085)Ala+(0.0087)Orn+(-0.0000)Lys+(0.1587)Ile+(-0.0668)Leu+(-0.1358)Trp;0.836,0.864,0.784,0.773,0.741,0.869,0.840,0.806,(3.4324)+(0.0016)Gln+(0.0300)Thr+(-0.0604)Val+(-0.3963)Met+(-0.0004)Lys+(0.2077)Ile;0.836,0.863,0.790,0.781

,0.803,0.800,0.779,0.791,(1.5667)+(0.0445)Ser+(-0.0042)Gly+(-0.0873)Cit+(-0.0125)Arg+(0.1003)Phe+(-0.1815)Trp;0.836,0.872,0.776,0.775,0.778,0.782,0.768,0.776,(0.7401)+(0.0350)Ser+(-0.0007)Gln+(-0.0006)Thr+(-0.0118)Lys+(0.0850)Phe+(-0.1662)Trp;0.836,0.867,0.772,0.754,0.751,0.816,0.836,0.789,(0.6119)+(0.0337)Ser+(-0.0015)Gln+(-0.0105)Ala+(0.0622)Ile+(0.0597)Phe+(-0.1743)Trp;0.836,0.864,0.775,0.759,0.753,0.821,0.834,0.792,(2.3369)+(0.0435)Ser+(-0.0070)Gly+(-0.0108)Thr+(0.1469)Ile+(-0.0642)Leu+(-0.1487)Trp;0.836,0.861,0.775,0.755,0.793,0.811,0.763,0.780,(3.7864)+(-0.0011)Asn+(-0.1414)His+(0.0436)Thr+(-0.0065)Val+(-0.3178)Met+(0.1535)Phe;0.836,0.861,0.792,0.779,0.766,0.838,0.853,0.809,(6.3358)+(-0.0643)Cit+(-0.0293)Val+(-0.0014)Lys+(0.1653)Ile+(-0.0219)Leu+(-0.1370)Trp;0.836,0.860,0.819,0.817,0.816,0.842,0.814,0.822,(6.0065)+(-0.0535)Asn+(0.0100)Gln+(-0.1067)His+(0.0059)Pro+(0.0224)Orn+(-0.1023)Trp;0.836,0.865,0.805,0.809,0.799,0.818,0.794,0.805,(0.9265)+(0.0346)Ser+(0.0008)Gln+(-0.0058)Ala+(-0.0258)Arg+(0.0978)Phe+(-0.1640)Trp;0.836,0.863,0.820,0.828,0.837,0.869,0.727,0.815,(4.7796)+(0.0270)Ser+(0.0035)Gln+(0.0171)Thr+(-0.0684)Cit+(-0.1694)Met+(-0.1428)Trp;0.836,0.863,0.767,0.752,0.786,0.790,0.750,0.769,(1.1082)+(0.0384)Ser+(-0.0001)Gln+(-0.1085)Cit+(0.0062)Pro+(0.0937)Phe+(-0.1914)Trp;0.836,0.864,0.779,0.766,0.795,0.850,0.727,0.784,(6.1677)+(0.0325)Ser+(-0.1009)His+(0.0111)Thr+(-0.0183)Arg+(0.0288)Orn+(-0.1016)Trp;0.836,0.860,0.716,0.668,0.714,0.815,0.777,0.743,(0.6643)+(0.0502)Ser+(-0.1624)His+(-0.0030)Pro+(-0.0186)Lys+(0.0518)Ile+(0.0825)Phe;0.836,0.866,0.772,0.754,0.753,0.816,0.825,0.787,(2.6189)+(0.0384)Ser+(-0.0077)Gly+(-0.0005)Gln+(0.1383)Ile+(-0.0610)Leu+(-0.1561)Trp;0.836,0.862,0.808,0.798,0.795,0.844,0.835,0.818,(4.3528)+(0.0051)Gln+(-0.0849)Cit+(-0.0015)Pro+(0.1497)Ile+(-0.0602)Leu+(-0.1613)Trp;0.836,0.861,0.803,0.790,0.827,0.848,0.758,0.806,(5.3614)+(0.0367)Ser+(-0.0054)Gly+(-0.1115)Cit+(0.0

550)Orn+(-0.0097)Lys+(-0.1531)Trp;0.836,0.860,0.750,0.710,0.733,0.861,0.810,0.778,(3.0667)+(0.0472)Ser+(-0.0708)Asn+(-0.1320)His+(-0.0069)Ala+(0.0156)Orn+(0.0691)Ile;0.836,0.870,0.780,0.791,0.768,0.793,0.768,0.780,(0.8050)+(0.0341)Ser+(-0.0367)Tyr+(-0.0041)Val+(-0.0085)Lys+(0.1098)Phe+(-0.1544)Trp;0.836,0.863,0.778,0.753,0.794,0.840,0.768,0.789,(5.4659)+(0.0487)Ser+(-0.0463)Asn+(-0.0927)His+(-0.0421)Cit+(0.0319)Leu+(-0.1158)Trp;0.836,0.861,0.778,0.751,0.786,0.832,0.796,0.791,(6.8766)+(0.0066)Gly+(-0.0810)His+(-0.0575)Cit+(0.0019)Pro+(0.0726)Ile+(-0.1292)Trp;0.836,0.862,0.814,0.794,0.805,0.841,0.865,0.826,(6.9803)+(-0.0100)Ala+(-0.0839)Cit+(0.0097)Pro+(-0.0047)Lys+(0.0786)Ile+(-0.1541)Trp;0.836,0.864,0.817,0.804,0.847,0.816,0.791,0.814,(4.6651)+(-0.1093)Cit+(0.0066)Pro+(-0.1721)Met+(0.0420)Orn+(0.1055)Phe+(-0.1597)Trp;0.836,0.861,0.766,0.743,0.718,0.840,0.876,0.794,(3.8824)+(-0.1051)His+(-0.0074)Ala+(-0.0382)Val+(0.0203)Orn+(0.1293)Ile+(0.0637)Phe;0.836,0.866,0.829,0.819,0.834,0.830,0.841,0.831,(6.2551)+(-0.0930)His+(-0.0010)Ala+(0.0015)Val+(-0.1264)Met+(0.1286)Phe+(-0.1072)Trp;0.836,0.863,0.780,0.782,0.785,0.796,0.750,0.778,(1.0222)+(0.0374)Ser+(0.0009)Gln+(-0.0990)Cit+(-0.0357)Tyr+(0.1174)Phe+(-0.1739)Trp;0.836,0.860,0.818,0.810,0.815,0.837,0.834,0.824,(5.5921)+(-0.0437)Asn+(0.0111)Gln+(-0.1196)His+(0.0043)Pro+(0.0214)Leu+(-0.1137)Trp;0.836,0.859,0.746,0.715,0.737,0.828,0.787,0.767,(1.4951)+(0.0594)Ser+(-0.1380)Asn+(-0.1310)His+(-0.0281)Val+(0.0439)Leu+(0.1142)Phe;0.836,0.867,0.799,0.790,0.797,0.800,0.826,0.803,(5.9786)+(-0.1025)His+(0.0057)Pro+(-0.0209)Tyr+(-0.0004)Val+(0.1098)Phe+(-0.1119)Trp;0.836,0.867,0.770,0.755,0.731,0.873,0.816,0.794,(1.4276)+(0.0434)Ser+(-0.0146)Arg+(-0.0480)Val+(-0.3054)Met+(0.2131)Ile+(-0.0197)Leu;0.836,0.862,0.806,0.799,0.791,0.841,0.830,0.815,(4.4780)+(0.0053)Gln+(-0.0834)Cit+(-0.0107)Tyr+(0.1482)Ile+(-0.0594)Leu+(-0.1567)Trp;0.836,0.860,0.751,0.727,0.741,0.831,0.777,0

.769,(1.6332)+(0.0537)Ser+(-0.1095)Asn+(-0.1474)His+(0.0081)Thr+(-0.0043)Ala+(0.1149)Phe;0.836,0.858,0.766,0.738,0.761,0.853,0.789,0.785,(1.6952)+(0.0431)Ser+(-0.0887)Asn+(0.0091)Gln+(-0.1509)His+(-0.0216)Arg+(0.0583)Ile;0.836,0.868,0.779,0.762,0.752,0.821,0.848,0.796,(0.1595)+(0.0348)Ser+(-0.0059)Thr+(-0.0102)Ala+(0.0629)Ile+(0.0593)Phe+(-0.1733)Trp;0.836,0.865,0.775,0.765,0.751,0.815,0.822,0.789,(3.0565)+(0.0383)Ser+(-0.0081)Gly+(-0.0223)Tyr+(0.1402)Ile+(-0.0595)Leu+(-0.1466)Trp;0.836,0.864,0.811,0.809,0.769,0.854,0.876,0.827,(5.6058)+(-0.1013)Asn+(0.0050)Gln+(-0.0018)Tyr+(-0.0413)Val+(0.1491)Ile+(-0.1178)Trp;0.836,0.860,0.760,0.741,0.781,0.806,0.733,0.765,(3.0559)+(0.0013)Asn+(0.0052)Gly+(-0.1552)His+(0.0402)Thr+(-0.3295)Met+(0.1511)Phe;0.836,0.860,0.760,0.739,0.776,0.792,0.756,0.766,(3.8494)+(-0.1521)His+(0.0454)Thr+(-0.0263)Tyr+(-0.3044)Met+(0.0101)Leu+(0.1415)Phe;0.836,0.859,0.761,0.731,0.785,0.802,0.760,0.770,(3.4513)+(0.0169)Asn+(-0.1574)His+(0.0438)Thr+(-0.3486)Met+(0.0101)Leu+(0.1355)Phe;0.836,0.866,0.796,0.792,0.800,0.827,0.776,0.798,(6.3670)+(0.0330)Thr+(0.0087)Pro+(-0.0378)Val+(-0.2684)Met+(0.0745)Leu+(-0.1403)Trp;0.836,0.863,0.792,0.775,0.765,0.837,0.857,0.809,(6.4125)+(-0.0649)Cit+(0.0018)Pro+(-0.0358)Val+(-0.0030)Lys+(0.1486)Ile+(-0.1391)Trp;0.836,0.862,0.776,0.766,0.732,0.819,0.863,0.795,(5.0454)+(-0.0743)Asn+(-0.0804)His+(-0.0424)Tyr+(-0.0426)Val+(0.1362)Ile+(0.0985)Phe;0.836,0.857,0.806,0.786,0.828,0.817,0.807,0.809,(5.2919)+(-0.0541)Asn+(-0.1178)Cit+(0.0386)Orn+(0.0382)Ile+(0.0642)Phe+(-0.1775)Trp;0.836,0.862,0.785,0.767,0.762,0.830,0.852,0.803,(7.5056)+(-0.0649)His+(-0.0106)Arg+(0.0065)Tyr+(-0.0322)Val+(0.1427)Ile+(-0.1092)Trp;0.836,0.869,0.845,0.851,0.836,0.820,0.867,0.844,(1.7715)+(0.0065)Gln+(-0.0319)Val+(-0.2619)Met+(0.0539)Leu+(0.1213)Phe+(-0.1461)Trp;0.836,0.869,0.799,0.779,0.811,0.814,0.816,0.805,(6.1441)+(-0.1078)His+(-0.0094)Arg+(0.0032)Pro+(0.0233)Orn+(0.0918)Phe+(-0.1

165)Trp;0.836,0.866,0.791,0.774,0.797,0.816,0.804,0.798,(5.4907)+(0.0053)Gly+(-0.1157)His+(-0.0067)Arg+(0.0111)Leu+(0.1010)Phe+(-0.1199)Trp;0.835,0.870,0.795,0.771,0.796,0.811,0.843,0.805,(5.9551)+(-0.0881)His+(-0.0587)Cit+(-0.0224)Tyr+(0.0547)Ile+(0.1007)Phe+(-0.1349)Trp;0.835,0.865,0.766,0.730,0.781,0.831,0.786,0.782,(4.7845)+(0.0447)Ser+(-0.0040)Gly+(-0.1168)His+(0.0188)Orn+(0.0271)Leu+(-0.1166)Trp;0.835,0.868,0.773,0.764,0.746,0.810,0.826,0.786,(0.4211)+(0.0318)Ser+(-0.0092)Ala+(-0.0262)Tyr+(0.0596)Ile+(0.0719)Phe+(-0.1701)Trp;0.835,0.867,0.788,0.781,0.764,0.818,0.834,0.799,(0.9701)+(0.0297)Ser+(-0.0066)Ala+(-0.0247)Val+(0.0446)Leu+(0.0868)Phe+(-0.1705)Trp;0.835,0.866,0.796,0.783,0.797,0.801,0.828,0.802,(6.0491)+(-0.1064)His+(0.0046)Pro+(-0.0207)Tyr+(0.0085)Leu+(0.1020)Phe+(-0.1164)Trp;0.835,0.862,0.750,0.733,0.715,0.820,0.813,0.770,(3.2567)+(0.0299)Ser+(-0.0025)Gln+(-0.0350)Val+(0.1659)Ile+(-0.0194)Leu+(-0.1398)Trp;0.835,0.861,0.772,0.756,0.790,0.836,0.732,0.779,(5.7700)+(0.0378)Ser+(-0.1116)His+(0.0128)Thr+(-0.0148)Arg+(0.0109)Val+(-0.1123)Trp;0.835,0.860,0.769,0.756,0.723,0.839,0.849,0.792,(3.3011)+(0.0040)Gly+(-0.1176)His+(-0.0079)Ala+(0.1228)Ile+(-0.0578)Leu+(0.0793)Phe;0.835,0.860,0.745,0.728,0.736,0.813,0.760,0.759,(1.4395)+(0.0566)Ser+(-0.0999)Asn+(-0.1417)His+(-0.0422)Tyr+(0.0037)Leu+(0.1289)Phe;0.835,0.859,0.807,0.803,0.775,0.840,0.859,0.819,(5.6710)+(-0.0082)Ala+(-0.0068)Tyr+(0.0101)Orn+(0.1587)Ile+(-0.0667)Leu+(-0.1330)Trp;0.835,0.871,0.770,0.766,0.774,0.776,0.768,0.771,(0.5192)+(0.0345)Ser+(0.0024)Pro+(-0.0140)Lys+(0.0046)Leu+(0.0794)Phe+(-0.1711)Trp;0.835,0.866,0.808,0.79

1,0.808,0.856,0.817,0.818,(6.4087)+(-0.0868)Cit+(-0.1059)Met+(0.0373)Orn+(0.1395)Ile+(-0.0571)Leu+(-0.1330)Trp;0.835,0.864,0.805,0.792,0.812,0.869,0.777,0.812,(5.7194)+(0.0430)Ser+(-0.0888)His+(0.0003)Ala+(0.0429)Tyr+(-0.1248)Met+(-0.1057)Trp;0.835,0.862,0.793,0.775,0.796,0.8

41,0.798,0.803,(5.6991)+(0.0033)Thr+(-0.1015)Cit+(0.0344)Orn+(0.1319)Ile+(-0.0559)Leu+(-0.1568)Trp;0.835,0.859,0.800,0.797,0.810,0.844,0.754,0.801,(8.2972)+(0.0001)Gly+(-0.0902)His+(0.0263)Thr+(-0.1163)Met+(0.0293)Orn+(-0.1017)Trp;0.835,0.865,0.801,0.778,0.797,0.840,0.843,0.815,(7.4256)+(-0.0569)His+(-0.0490)Cit+(0.0020)Tyr+(0.1243)Ile+(-0.0404)Leu+(-0.1227)Trp;0.835,0.864,0.803,0.801,0.807,0.846,0.768,0.806,(4.1333)+(0.0457)Ser+(-0.0617)Asn+(0.0119)Pro+(0.0235)Tyr+(-0.1782)Met+(-0.1377)Trp;0.835,0.862,0.782,0.770,0.785,0.852,0.760,0.792,(5.5538)+(0.0332)Ser+(-0.1007)His+(-0.0014)Ala+(0.0282)Orn+(0.0031)Lys+(-0.1000)Trp;0.835,0.861,0.795,0.779,0.785,0.823,0.836,0.806,(7.2683)+(-0.0747)His+(-0.0138)Arg+(0.0097)Lys+(0.1252)Ile+(-0.0473)Leu+(-0.1182)Trp;0.835,0.857,0.722,0.678,0.695,0.817,0.824,0.754,(0.6427)+(0.0457)Ser+(-0.0052)Gly+(-0.1397)His+(-0.0315)Val+(0.1067)Ile+(0.0723)Phe;0.835,0.861,0.786,0.775,0.798,0.798,0.784,0.789,(1.2656)+(0.0416)Ser+(-0.0041)Gly+(0.0005)Gln+(-0.0977)Cit+(0.0961)Phe+(-0.1860)Trp;0.835,0.861,0.783,0.769,0.795,0.797,0.782,0.786,(1.3246)+(0.0421)Ser+(-0.0039)Gly+(-0.0984)Cit+(0.0037)Leu+(0.0934)Phe+(-0.1881)Trp;0.835,0.863,0.771,0.759,0.791,0.792,0.745,0.772,(1.2666)+(0.0401)Ser+(-0.0987)Cit+(-0.0131)Arg+(0.0066)Pro+(0.0971)Phe+(-0.1880)Trp;0.835,0.860,0.777,0.767,0.794,0.798,0.753,0.778,(1.1751)+(0.0364)Ser+(0.0001)Gln+(0.0015)Thr+(-0.1038)Cit+(0.0981)Phe+(-0.1870)Trp;0.835,0.871,0.821,0.806,0.832,0.819,0.836,0.824,(5.9474)+(-0.0909)His+(0.0075)Pro+(0.0034)Tyr+(-0.1588)Met+(0.1261)Phe+(-0.1098)Trp;0.835,0.867,0.807,0.793,0.812,0.809,0.830,0.811,(6.2953)+(-0.0091)Asn+(-0.1015)His+(-0.0053)Arg+(0.0046)Pro+(0.1010)Phe+(-0.1169)Trp;0.835,0.858,0.758,0.740,0.789,0.816,0.701,0.761,(3.2212)+(0.0070)Gly+(-0.1470)His+(0.0420)Thr+(-0.0506)Cit+(-0.3315)Met+(0.1571)Phe;0.835,0.865,0.792,0.796,0.789,0.815,0.772,0.793,(1.4425)+(0.0383)Ser+(-0.0043)Ala+(-0.0942)Cit+(-0.0247)Tyr+(0.1210

)Phe+(-0.1666)Trp;0.835,0.862,0.819,0.821,0.795,0.838,0.851,0.826,(4.6663)+(-0.0849)Asn+(0.0002)Gly+(0.0057)Gln+(0.1362)Ile+(-0.0630)Leu+(-0.1376)Trp;0.835,0.861,0.793,0.773,0.782,0.829,0.842,0.807,(6.9550)+(-0.0803)His+(-0.0010)Pro+(0.0057)Lys+(0.1176)Ile+(-0.0400)Leu+(-0.1180)Trp;0.835,0.863,0.801,0.774,0.790,0.841,0.863,0.817,(7.6834)+(-0.0867)His+(-0.0065)Ala+(0.0051)Pro+(0.0085)Tyr+(0.0699)Ile+(-0.1203)Trp;0.835,0.863,0.790,0.755,0.807,0.837,0.811,0.803,(7.6174)+(-0.0755)His+(-0.0771)Cit+(0.0463)Orn+(-0.0037)Lys+(0.0608)Ile+(-0.1312)Trp;0.835,0.862,0.777,0.763,0.758,0.835,0.814,0.792,(2.4592)+(0.0365)Ser+(-0.0098)Ala+(-0.0229)Arg+(0.0068)Pro+(0.0722)Ile+(-0.1586)Trp;0.835,0.861,0.796,0.781,0.790,0.841,0.812,0.806,(6.1521)+(0.0104)Thr+(-0.0801)Cit+(-0.0048)Lys+(0.1380)Ile+(-0.0522)Leu+(-0.1553)Trp;0.835,0.862,0.802,0.798,0.815,0.847,0.751,0.803,(5.5547)+(0.0439)Ser+(-0.0953)Asn+(-0.0739)Cit+(0.0108)Pro+(0.0049)Tyr+(-0.1451)Trp;0.835,0.860,0.795,0.790,0.794,0.853,0.767,0.801,(6.1844)+(0.0407)Ser+(-0.0602)Asn+(-0.0876)His+(0.0003)Ala+(0.0098)Lys+(-0.1013)Trp;0.835,0.859,0.766,0.746,0.713,0.840,0.874,0.793,(3.6053)+(0.0027)Gly+(-0.1054)His+(-0.0074)Ala+(-0.0365)Val+(0.1304)Ile+(0.0708)Phe;0.835,0.866,0.826,0.810,0.831,0.832,0.851,0.831,(6.3208)+(-0.0965)His+(-0.0016)Ala+(-0.1298)Met+(0.0135)Leu+(0.1206)Phe+(-0.1120)Trp;0.835,0.865,0.766,0.777,0.766,0.777,0.728,0.762,(0.7538)+(0.0371)Ser+(-0.0273)Arg+(0.0064)Pro+(-0.0408)Tyr+(0.1043)Phe+(-0.1646)Trp;0.835,0.871,0.792,0.771,0.788,0.808,0.845,0.803,(5.9961)+(-0.1052)His+(-0.0040)Arg+(-0.0226)Tyr+(0.0506)Ile+(0.0891)Phe+(-0.1218)Trp;0.835,0.859,0.751,0.723,0.720,0.862,0.812,0.779,(3.7777)+(0.0478)Ser+(-0.1137)Asn+(-0.0787)His+(-0.0352)Cit+(-0.0369)Val+(0.1457)Ile;0.835,0.866,0.791,0.784,0.774,0.797,0.838,0.798,(3.1895)+(-0.0001)Gly+(-0.0046)Lys+(0.1362)Ile+(-0.0702)Leu+(0.0666)Phe+(-0.1571)Trp;0.835,0.862,0.770,0.751,0.776,0.832,0.760,0.780,(5.1313)+(0

.0380)Ser+(-0.1029)His+(0.0090)Pro+(0.0060)Tyr+(0.0039)Lys+(-0.1095)Trp;0.835,0.869,0.793,0.801,0.775,0.814,0.794,0.796,(0.9352)+(0.0346)Ser+(-0.0047)Ala+(-0.0278)Tyr+(-0.0084)Lys+(0.1064)Phe+(-0.1527)Trp;0.835,0.867,0.804,0.809,0.797,0.823,0.793,0.806,(1.1331)+(0.0368)Ser+(-0.0055)Ala+(-0.0227)Arg+(-0.0041)Lys+(0.1006)Phe+(-0.1598)Trp;0.835,0.866,0.742,0.697,0.749,0.841,0.772,0.765,(2.0601)+(0.0511)Ser+(-0.1288)His+(0.0040)Pro+(-0.2335)Met+(0.0112)Orn+(0.0752)Ile;0.835,0.864,0.800,0.784,0.790,0.831,0.839,0.811,(2.5642)+(0.0503)Ser+(-0.1290)Asn+(-0.0069)Gly+(0.0034)Gln+(0.0547)Ile+(-0.1566)Trp;0.835,0.860,0.813,0.812,0.814,0.844,0.793,0.816,(6.0843)+(0.0085)Gln+(-0.1025)His+(0.0133)Thr+(-0.0456)Cit+(0.0069)Pro+(-0.1173)Trp;0.835,0.862,0.808,0.812,0.830,0.867,0.712,0.805,(5.5490)+(0.0305)Ser+(0.0184)Thr+(-0.0664)Cit+(-0.1644)Met+(0.0026)Lys+(-0.1421)Trp;0.835,0.860,0.806,0.800,0.833,0.825,0.749,0.802,(5.0610)+(-0.0739)Asn+(0.0056)Gly+(-0.1286)Cit+(0.0492)Orn+(0.0855)Phe+(-0.1636)Trp;0.835,0.860,0.796,0.789,0.793,0.850,0.779,0.803,(4.5474)+(0.0281)Ser+(0.0061)Gln+(-0.1186)His+(0.0045)Thr+(0.0154)Tyr+(-0.1078)Trp;0.835,0.871,0.785,0.776,0.787,0.779,0.812,0.788,(1.0981)+(0.0458)Ser+(-0.0086)Gly+(0.0033)Pro+(-0.0136)Lys+(0.0784)Phe+(-0.1658)Trp;0.835,0.864,0.779,0.765,0.739,0.866,0.835,0.801,(3.9052)+(0.0294)Thr+(-0.0612)Val+(-0.3857)Met+(0.0105)Orn+(-0.0009)Lys+(0.2068)Ile;0.835,0.863,0.789,0.785,0.772,0.792,0.836,0.796,(3.0045)+(-0.0002)Gly+(-0.0009)Thr+(0.1374)Ile+(-0.0730)Leu+(0.0639)Phe+(-0.1596)Trp;0.835,0.863,0.796,0.788,0.817,0.840,0.744,0.797,(5.4324)+(0.0401)Ser+(-0.1076)Asn+(0.0130)Thr+(-0.0789)Cit+(0.0193)Leu+(-0.1588)Trp;0.835,0.858,0.807,0.802,0.809,0.830,0.801,0.810,(5.5920)+(0.0087)Gln+(-0.1285)His+(0.0124)Thr+(0.0014)Tyr+(0.0092)Val+(-0.1187)Trp;0.835,0.866,0.804,0.809,0.783,0.808,0.831,0.808,(2.4710)+(0.0046)Gln+(-0.0334)Arg+(0.1562)Ile+(-0.0835)Leu+(0.0740)Phe+(-0.1572)Trp;0.835,0.866,

0.785,0.762,0.809,0.862,0.738,0.793,(5.7849)+(0.0356)Ser+(-0.0847)His+(-0.0799)Cit+(0.0077)Tyr+(0.0493)Orn+(-0.1143)Trp;0.835,0.857,0.811,0.814,0.798,0.844,0.805,0.815,(6.1145)+(0.0081)Gln+(-0.1105)His+(0.0122)Thr+(-0.0039)Ala+(0.0090)Pro+(-0.1090)Trp;0.835,0.866,0.784,0.798,0.779,0.797,0.748,0.781,(0.9785)+(0.0366)Ser+(-0.0246)Arg+(-0.0334)Tyr+(-0.0055)Val+(0.1151)Phe+(-0.1559)Trp;0.835,0.861,0.810,0.815,0.831,0.871,0.714,0.808,(5.7638)+(0.0303)Ser+(0.0195)Thr+(-0.0008)Ala+(-0.0662)Cit+(-0.1537)Met+(-0.1393)Trp;0.835,0.870,0.768,0.763,0.758,0.779,0.795,0.774,(0.7530)+(0.0279)Ser+(-0.0267)Val+(0.0038)Orn+(0.0403)Leu+(0.0776)Phe+(-0.1786)Trp;0.835,0.868,0.772,0.768,0.760,0.781,0.800,0.777,(0.6679)+(0.0300)Ser+(-0.0031)Thr+(-0.0254)Val+(0.0392)Leu+(0.0801)Phe+(-0.1768)Trp;0.835,0.868,0.762,0.751,0.756,0.782,0.789,0.769,(1.1626)+(0.0320)Ser+(-0.0022)Gln+(-0.0268)Val+(0.0418)Leu+(0.0818)Phe+(-0.1750)Trp;0.835,0.865,0.788,0.771,0.798,0.847,0.766,0.796,(5.2841)+(0.0430)Ser+(-0.1026)His+(0.0130)Val+(-0.1032)Met+(0.0066)Lys+(-0.1088)Trp;0.835,0.862,0.820,0.819,0.835,0.866,0.759,0.820,(5.9535)+(0.0394)Ser+(-0.0070)Gly+(0.0216)Thr+(-0.0589)Cit+(-0.1692)Met+(-0.1416)Trp;0.835,0.861,0.805,0.799,0.817,0.840,0.768,0.806,(8.4406)+(-0.0831)His+(0.0298)Thr+(0.0081)Pro+(0.0166)Tyr+(-0.1646)Met+(-0.1089)Trp;0.835,0.856,0.740,0.700,0.720,0.855,0.807,0.770,(2.6612)+(0.0446)Ser+(-0.1329)His+(-0.0080)Ala+(0.0048)Pro+(-0.0104)Lys+(0.0733)Ile;0.835,0.863,0.776,0.762,0.784,0.845,0.748,0.785,(5.5899)+(0.0315)Ser+(-0.1047)His+(0.0055)Thr+(0.0250)Orn+(0.0016)Lys+(-0.1032)Trp;0.835,0.863,0.774,0.753,0.792,0.813,0.765,0.781,(3.6488)+(-0.1416)His+(0.0414)Thr+(-0.0075)Val+(-0.3126)Met+(0.0117)Orn+(0.1497)Phe;0.835,0.860,0.775,0.762,0.793,0.796,0.755,0.776,(1.1550)+(0.0368)Ser+(0.0012)Thr+(-0.1047)Cit+(0.0043)Leu+(0.0945)Phe+(-0.1898)Trp;0.835,0.858,0.810,0.814,0.811,0.838,0.780,0.811,(6.2189)+(0.0099)Gln+(-0.1163)His+(0.0177)Thr+(-

0.0240)Arg+(0.0065)Pro+(-0.1106)Trp;0.835,0.860,0.760,0.741,0.781,0.807,0.734,0.765,(3.0995)+(0.0052)Gly+(-0.1547)His+(0.0405)Thr+(-0.3275)Met+(-0.0006)Lys+(0.1512)Phe;0.835,0.859,0.779,0.753,0.786,0.831,0.795,0.791,(6.9179)+(0.0066)Gly+(-0.0816)His+(-0.0563)Cit+(0.0004)Lys+(0.0744)Ile+(-0.1284)Trp;0.835,0.863,0.823,0.812,0.800,0.863,0.870,0.836,(6.2462)+(-0.0063)Ala+(0.0212)Tyr+(-0.1442)Met+(0.1627)Ile+(-0.0626)Leu+(-0.1266)Trp;0.835,0.861,0.799,0.795,0.750,0.843,0.879,0.817,(6.3638)+(-0.0072)Ala+(-0.0163)Arg+(-0.0431)Val+(0.0038)Lys+(0.1733)Ile+(-0.1235)Trp;0.835,0.862,0.788,0.781,0.797,0.865,0.734,0.794,(6.4634)+(0.0338)Ser+(-0.0875)His+(0.0155)Thr+(-0.0009)Ala+(-0.0442)Cit+(-0.1070)Trp;0.835,0.859,0.761,0.733,0.742,0.858,0.804,0.784,(1.6087)+(0.0386)Ser+(0.0066)Gln+(-0.1524)His+(-0.0065)Ala+(-0.0241)Arg+(0.0697)Ile;0.835,0.860,0.808,0.804,0.775,0.842,0.865,0.822,(5.6153)+(0.0003)Gly+(-0.0083)Ala+(0.0012)Lys+(0.1615)Ile+(-0.0672)Leu+(-0.1362)Trp;0.835,0.870,0.774,0.783,0.766,0.785,0.758,0.773,(0.7270)+(0.0344)Ser+(-0.0378)Tyr+(0.0055)Orn+(-0.0107)Lys+(0.1018)Phe+(-0.1569)Trp;0.835,0.866,0.785,0.766,0.810,0.862,0.730,0.792,(5.9968)+(0.0358)Ser+(-0.0814)His+(-0.0764)Cit+(-0.0052)Arg+(0.0515)Orn+(-0.1099)Trp;0.835,0.864,0.832,0.824,0.842,0.868,0.805,0.835,(6.3953)+(-0.0547)Asn+(0.0101)Gln+(-0.0840)His+(-0.0769)Cit+(0.0479)Orn+(-0.1088)Trp;0.835,0.863,0.780,0.784,0.787,0.798,0.745,0.779,(1.3159)+(0.0401)Ser+(-0.0912)Cit+(-0.0088)Arg+(-0.0326)Tyr+(0.1197)Phe+(-0.1708)Trp;0.835,0.862,0.816,0.812,0.783,0.853,0.871,0.830,(6.4388)+(-0.0300)Asn+(-0.0074)Ala+(-0.0005)Tyr+(0.1577)Ile+(-0.0648)Leu+(-0.1277)Trp;0.835,0.862,0.783,0.777,0.799,0.800,0.752,0.782,(1.3682)+(0.0390)Ser+(-0.0924)Cit+(-0.0118)Arg+(-0.0011)Val+(0.1040)Phe+(-0.1803)Trp;0.835,0.860,0.756,0.722,0.740,0.860,0.808,0.782,(3.2997)+(0.0499)Ser+(-0.0613)Asn+(-0.1161)His+(-0.0077)Ala+(-0.0488)Cit+(0.0782)Ile;0.835,0.872,0.774,0.772,0.779,0.784,0.

764,0.775,(0.7931)+(0.0347)Ser+(-0.0008)Gln+(0.0036)Orn+(-0.0124)Lys+(0.0832)Phe+(-0.1658)Trp;0.835,0.869,0.795,0.779,0.799,0.807,0.820,0.802,(6.0369)+(-0.1124)His+(-0.0211)Tyr+(0.0238)Orn+(0.0085)Leu+(0.0955)Phe+(-0.1135)Trp;0.835,0.862,0.786,0.770,0.791,0.853,0.769,0.796,(5.5281)+(0.0344)Ser+(-0.1013)His+(-0.0019)Ala+(0.0135)Tyr+(0.0271)Orn+(-0.1023)Trp;0.835,0.862,0.767,0.753,0.785,0.789,0.753,0.770,(1.0483)+(0.0390)Ser+(-0.0019)Thr+(-0.1078)Cit+(0.0065)Pro+(0.0938)Phe+(-0.1902)Trp;0.835,0.861,0.777,0.757,0.812,0.827,0.719,0.779,(3.9512)+(0.0298)Ser+(-0.1204)Cit+(0.0050)Pro+(0.0419)Orn+(0.0109)Leu+(-0.1830)Trp;0.835,0.861,0.802,0.797,0.803,0.838,0.789,0.807,(3.6666)+(0.0524)Ser+(-0.0074)Gly+(0.0127)Pro+(0.0195)Tyr+(-0.2220)Met+(-0.1421)Trp;0.835,0.860,0.835,0.846,0.834,0.875,0.781,0.834,(4.8377)+(0.0353)Ser+(-0.1055)Asn+(0.0061)Gln+(-0.0008)Ala+(-0.0711)Cit+(-0.1361)Trp;0.835,0.869,0.806,0.789,0.797,0.835,0.848,0.817,(7.4792)+(-0.0607)His+(0.0018)Pro+(-0.1018)Met+(0.1263)Ile+(-0.0409)Leu+(-0.1051)Trp;0.835,0.861,0.804,0.799,0.798,0.858,0.792,0.812,(4.4615)+(0.0297)Ser+(0.0066)Gln+(-0.1164)His+(-0.0016)Ala+(0.0220)Tyr+(-0.1063)Trp;0.835,0.857,0.745,0.717,0.701,0.853,0.834,0.776,(2.7838)+(0.0352)Ser+(-0.1083)His+(-0.0071)Ala+(-0.0034)Tyr+(-0.0284)Val+(0.1349)Ile;0.835,0.865,0.773,0.787,0.758,0.778,0.763,0.772,(0.7310)+(0.0302)Ser+(0.0012)Thr+(-0.0410)Tyr+(-0.0063)Val+(0.1066)Phe+(-0.1598)Trp;0.835,0.859,0.805,0.798,0.826,0.860,0.739,0.806,(5.3018)+(0.0290)Ser+(-0.0046)Ala+(-0.1114)Cit+(-0.0077)Arg+(0.0563)Orn+(-0.1508)Trp;0.835,0.858,0.753,0.723,0.714,0.863,0.834,0.783,(2.8905)+(0.0374)Ser+(-0.0955)His+(-0.0082)Ala+(-0.0495)Cit+(-0.0285)Val+(0.1419)Ile;0.835,0.865,0.773,0.756,0.752,0.819,0.828,0.789,(2.5512)+(0.0383)Ser+(-0.0077)Gly+(-0.0044)Orn+(0.1398)Ile+(-0.0611)Leu+(-0.1567)Trp;0.835,0.863,0.791,0.777,0.765,0.836,0.851,0.807,(6.2233)+(-0.0652)Cit+(0.0011

)Pro+(-0.0293)Val+(0.1638)Ile+(-0.0224)Leu+(-0.1389)Trp;0.835,0.861,0.755,0.722,0.770,0.827,0.763,0.770,(4.7873)+(0.0385)Ser+(-0.1239)His+(0.0087)Thr+(0.0053)Tyr+(0.0305)Leu+(-0.1218)Trp;0.835,0.861,0.793,0.776,0.799,0.825,0.803,0.801,(5.4911)+(0.0077)Gln+(-0.1352)His+(0.0127)Thr+(0.0128)Orn+(0.0238)Leu+(-0.1242)Trp;0.835,0.865,0.785,0.788,0.759,0.806,0.817,0.792,(0.5412)+(0.0337)Ser+(-0.0058)Thr+(-0.0091)Ala+(0.0101)Pro+(0.0832)Phe+(-0.1651)Trp;0.835,0.867,0.840,0.846,0.850,0.831,0.808,0.834,(1.3997)+(0.0041)Gly+(0.0077)Gln+(-0.0921)Cit+(-0.2201)Met+(0.1334)Phe+(-0.1565)Trp;0.835,0.862,0.787,0.771,0.777,0.829,0.821,0.799,(7.0283)+(0.0038)Gly+(-0.0773)His+(-0.0095)Arg+(0.1215)Ile+(-0.0389)Leu+(-0.1117)Trp;0.835,0.861,0.796,0.803,0.788,0.848,0.753,0.798,(4.1613)+(0.0411)Ser+(-0.0038)Ala+(-0.0098)Arg+(0.0159)Pro+(-0.1634)Met+(-0.1278)Trp;0.835,0.860,0.758,0.725,0.748,0.845,0.803,0.780,(1.7679)+(0.0410)Ser+(-0.1036)Asn+(0.0073)Gln+(-0.1509)His+(0.0002)Thr+(0.0564)Ile;0.835,0.859,0.749,0.716,0.732,0.853,0.800,0.775,(3.1866)+(0.0500)Ser+(-0.0541)Asn+(-0.1275)His+(-0.0065)Ala+(-0.0118)Arg+(0.0739)Ile;0.835,0.861,0.824,0.815,0.839,0.841,0.802,0.824,(5.5086)+(-0.0065)Ala+(-0.1312)Cit+(0.0572)Orn+(-0.0087)Lys+(0.0961)Phe+(-0.1591)Trp;0.835,0.866,0.757,0.754,0.753,0.778,0.757,0.761,(0.3305)+(0.0379)Ser+(-0.0290)Arg+(-0.0370)Tyr+(0.0472)Ile+(0.0839)Phe+(-0.1748)Trp;0.835,0.863,0.816,0.823,0.810,0.867,0.776,0.819,(4.6869)+(0.0320)Ser+(0.0088)Gln+(-0.1015)His+(-0.0138)Arg+(-0.0664)Met+(-0.0907)Trp;0.835,0.862,0.785,0.779,0.801,0.802,0.754,0.784,(1.1443)+(0.0376)Ser+(0.0010)Gln+(-0.0942)Cit+(-0.0128)Arg+(0.1013)Phe+(-0.1832)Trp;0.835,0.863,0.802,0.775,0.802,0.845,0.845,0.817,(7.7177)+(-0.0852)His+(-0.0042)Ala+(-0.0714)Met+(0.0259)Orn+(0.0713)Ile+(-0.1107)Trp;0.835,0.861,0.797,0.784,0.800,0.857,0.779,0.805,(5.9682)+(0.0421)Ser+(-0.0643)Asn+(-0.0915)His+(0.0203)Tyr+(0.0080)Lys+(-0.1078)Trp;0.835,0.861,0.775,0.755,0

.792,0.811,0.765,0.781,(3.7319)+(-0.1420)His+(0.0432)Thr+(-0.0066)Val+(-0.3200)Met+(0.0009)Lys+(0.1534)Phe;0.835,0.859,0.750,0.732,0.716,0.819,0.818,0.771,(3.2383)+(0.0320)Ser+(-0.0026)Gln+(-0.0035)Thr+(-0.0403)Val+(0.1514)Ile+(-0.1404)Trp;0.835,0.869,0.774,0.782,0.767,0.787,0.761,0.774,(0.7854)+(0.0353)Ser+(-0.0003)Gln+(-0.0371)Tyr+(-0.0099)Lys+(0.1045)Phe+(-0.1574)Trp;0.835,0.869,0.795,0.792,0.781,0.819,0.814,0.801,(0.8507)+(0.0351)Ser+(-0.0067)Ala+(-0.0118)Lys+(0.0112)Leu+(0.0868)Phe+(-0.1630)Trp;0.835,0.867,0.790,0.783,0.774,0.796,0.836,0.797,(3.1543)+(0.0016)Thr+(-0.0054)Lys+(0.1350)Ile+(-0.0693)Leu+(0.0665)Phe+(-0.1580)Trp;0.835,0.860,0.741,0.699,0.726,0.850,0.803,0.770,(2.7549)+(0.0431)Ser+(-0.1366)His+(-0.0070)Ala+(0.0159)Orn+(-0.0118)Lys+(0.0740)Ile;0.835,0.865,0.793,0.771,0.793,0.810,0.840,0.804,(5.9980)+(-0.1053)His+(0.0042)Pro+(-0.0178)Val+(0.0366)Leu+(0.0936)Phe+(-0.1210)Trp;0.835,0.865,0.812,0.801,0.808,0.826,0.842,0.819,(6.0835)+(-0.1077)His+(-0.0033)Ala+(0.0010)Val+(0.0062)Lys+(0.1042)Phe+(-0.1185)Trp;0.835,0.861,0.785,0.774,0.793,0.856,0.744,0.792,(5.9443)+(0.0360)Ser+(-0.0951)His+(-0.0010)Ala+(-0.0141)Arg+(0.0337)Orn+(-0.0954)Trp;0.835,0.858,0.802,0.795,0.816,0.832,0.768,0.803,(8.3040)+(-0.0985)His+(0.0293)Thr+(0.0079)Val+(-0.1461)Met+(0.0086)Lys+(-0.1135)Trp;0.835,0.859,0.808,0.800,0.802,0.855,0.810,0.817,(4.4740)+(0.0369)Ser+(-0.0055)Gly+(0.0068)Gln+(-0.1146)His+(0.0143)Tyr+(-0.1056)Trp;0.835,0.865,0.794,0.786,0.794,0.820,0.795,0.799,(1.3859)+(0.0372)Ser+(-0.0066)Ala+(-0.0990)Cit+(0.0116)Leu+(0.1021)Phe+(-0.1797)Trp;0.835,0.865,0.780,0.768,0.739,0.867,0.836,0.802,(3.9626)+(0.0306)Thr+(0.0020)Pro+(-0.0609)Val+(-0.3944)Met+(0.0007)Lys+(0.2063)Ile;0.835,0.863,0.797,0.772,0.794,0.841,0.840,0.812,(7.7570)+(-0.0922)His+(-0.0051)Ala+(-0.0051)Arg+(0.0266)Orn+(0.0679)Ile+(-0.1163)Trp;0.835,0.861,0.805,0.801,0.772,0.840,0.857,0.817,(5.6361)+(0.0068)Thr+(-0.0084)Ala+(-0.0074)Tyr+(0.1586)Ile

+(-0.0649)Leu+(-0.1382)Trp;0.835,0.861,0.818,0.803,0.807,0.842,0.860,0.828,(0.9372)+(0.0125)Gln+(-0.1448)His+(-0.0224)Val+(-0.2668)Met+(0.0421)Leu+(0.1227)Phe;0.835,0.868,0.838,0.840,0.848,0.817,0.830,0.834,(1.8136)+(0.0082)Gln+(-0.0905)Cit+(0.0087)Pro+(-0.2349)Met+(0.1252)Phe+(-0.1609)Trp;0.835,0.866,0.805,0.782,0.826,0.831,0.801,0.810,(6.4301)+(-0.0184)Asn+(-0.0846)His+(-0.0879)Cit+(0.0476)Orn+(0.1015)Phe+(-0.1322)Trp;0.835,0.859,0.756,0.732,0.745,0.830,0.791,0.774,(1.5476)+(0.0580)Ser+(-0.0990)Asn+(-0.0015)Gly+(-0.1431)His+(-0.0040)Ala+(0.1149)Phe;0.835,0.866,0.817,0.808,0.812,0.826,0.846,0.823,(6.3108)+(-0.0201)Asn+(-0.1032)His+(-0.0031)Ala+(0.0078)Lys+(0.1049)Phe+(-0.1166)Trp;0.835,0.862,0.787,0.766,0.780,0.824,0.827,0.799,(3.1856)+(0.0524)Ser+(-0.1115)Asn+(-0.0064)Gly+(0.0008)Pro+(0.0553)Ile+(-0.1547)Trp;0.835,0.862,0.829,0.820,0.849,0.837,0.806,0.828,(4.9894)+(-0.0046)Ala+(-0.1141)Cit+(-0.1211)Met+(0.0492)Orn+(0.1104)Phe+(-0.1544)Trp;0.835,0.861,0.770,0.738,0.776,0.842,0.791,0.787,(4.7030)+(0.0430)Ser+(-0.1181)His+(-0.0035)Ala+(0.0183)Tyr+(0.0330)Leu+(-0.1187)Trp;0.835,0.860,0.810,0.799,0.827,0.854,0.769,0.812,(5.2156)+(0.0335)Ser+(-0.0042)Gly+(-0.0046)Ala+(-0.1125)Cit+(0.0542)Orn+(-0.1523)Trp;0.835,0.859,0.808,0.805,0.774,0.843,0.863,0.821,(5.7436)+(0.0003)Gly+(-0.0081)Ala+(-0.0032)Tyr+(0.1613)Ile+(-0.0663)Leu+(-0.1338)Trp;0.835,0.859,0.771,0.760,0.701,0.885,0.868,0.803,(2.8314)+(0.0440)Ser+(-0.1632)Asn+(-0.0075)Ala+(-0.0018)Tyr+(-0.0539)Val+(0.1883)Ile;0.835,0.869,0.783,0.780,0.775,0.771,0.816,0.786,(1.0210)+(0.0397)Ser+(-0.0081)Gly+(0.0042)Pro+(-0.0081)Val+(0.0770)Phe+(-0.1696)Trp;0.835,0.862,0.789,0.754,0.806,0.834,0.812,0.801,(7.4553)+(-0.0791)His+(-0.0745)Cit+(0.0002)Pro+(0.0439)Orn+(0.0586)Ile+(-0.1332)Trp;0.835,0.859,0.824,0.813,0.811,0.854,0.862,0.835,(4.4564)+(0.0060)Gln+(-0.0089)Ala+(-0.0894)Cit+(-0.0014)Arg+(0.0833)Ile+(-0.1708)Trp;0.835,0.864,0.770,0.763,0.755,0.831,0.774,0.781,(

2.8898)+(0.0377)Ser+(-0.0020)Thr+(-0.0322)Arg+(0.1663)Ile+(-0.0730)Le
u+(-0.1431)Trp;0.835,0.860,0.803,0.795,0.807,0.828,0.798,0.807,(5.606
0)+(0.0080)Gln+(-0.1281)His+(0.0110)Thr+(0.0077)Val+(0.0150)Orn+(-0.1
172)Trp;0.835,0.865,0.777,0.751,0.791,0.840,0.770,0.788,(4.7416)+(0.0
487)Ser+(-0.1033)His+(-0.0015)Arg+(-0.1197)Met+(0.0371)Leu+(-0.1044)T
rp;0.835,0.860,0.797,0.788,0.814,0.834,0.758,0.798,(8.2282)+(-0.0985)
His+(0.0275)Thr+(0.0068)Val+(-0.1253)Met+(0.0248)Orn+(-0.1086)Trp;0.8
35,0.859,0.815,0.803,0.841,0.817,0.790,0.813,(5.7883)+(-0.0618)Asn+(-
0.1206)Cit+(0.0031)Pro+(0.0478)Orn+(0.0773)Phe+(-0.1676)Trp;0.835,0.8
73,0.821,0.804,0.834,0.829,0.831,0.824,(5.9606)+(-0.0977)His+(0.0030)
Tyr+(-0.1390)Met+(0.0231)Orn+(0.1185)Phe+(-0.1061)Trp;0.835,0.864,0.7
93,0.781,0.765,0.842,0.848,0.809,(6.9872)+(-0.0688)Asn+(-0.0174)Arg+(
-0.0471)Val+(0.0328)Orn+(0.1597)Ile+(-0.1112)Trp;0.835,0.862,0.795,0.
791,0.776,0.804,0.836,0.802,(2.4934)+(0.0017)Gln+(-0.0058)Pro+(0.1458
)Ile+(-0.0750)Leu+(0.0632)Phe+(-0.1613)Trp;0.835,0.859,0.758,0.737,0.
753,0.832,0.771,0.773,(1.5900)+(0.0584)Ser+(-0.0891)Asn+(-0.1417)His+
(-0.0037)Ala+(-0.0152)Arg+(0.1201)Phe;0.835,0.856,0.746,0.717,0.710,0
.853,0.821,0.775,(3.6201)+(0.0472)Ser+(-0.1185)Asn+(-0.0867)His+(-0.0
388)Val+(0.1410)Ile+(0.0053)Leu;0.835,0.866,0.810,0.798,0.825,0.856,0
.777,0.814,(6.2177)+(0.0072)Gln+(-0.0984)His+(0.0113)Thr+(-0.0751)Cit
+(0.0430)Orn+(-0.1178)Trp;0.835,0.861,0.791,0.774,0.798,0.841,0.786,0
.800,(5.7843)+(0.0497)Ser+(-0.0398)Asn+(-0.0043)Gly+(-0.0959)His+(0.0
108)Val+(-0.1073)Trp;0.835,0.860,0.777,0.750,0.775,0.850,0.797,0.793,
(6.1523)+(-0.0974)His+(0.0294)Thr+(-0.0444)Cit+(-0.2380)Met+(0.1295)I
le+(-0.0419)Leu;0.835,0.872,0.778,0.778,0.781,0.784,0.769,0.778,(0.57
76)+(0.0342)Ser+(-0.0015)Thr+(0.0034)Orn+(-0.0123)Lys+(0.0829)Phe+(-0
.1663)Trp;0.835,0.866,0.791,0.785,0.773,0.796,0.842,0.799,(3.1842)+(-
0.0061)Orn+(-0.0038)Lys+(0.1383)Ile+(-0.0708)Leu+(0.0695)Phe+(-0.1581

)Trp;0.835,0.861,0.762,0.732,0.785,0.803,0.763,0.771,(3.5191)+(-0.151
4)His+(0.0432)Thr+(0.0036)Pro+(-0.3393)Met+(0.0075)Leu+(0.1335)Phe;0.
835,0.859,0.801,0.796,0.786,0.825,0.826,0.808,(6.0208)+(-0.0706)Asn+(
0.0090)Thr+(0.0064)Orn+(0.1304)Ile+(-0.0603)Leu+(-0.1373)Trp;0.835,0.
865,0.850,0.856,0.858,0.826,0.833,0.843,(1.8996)+(0.0083)Gln+(-0.0849
)Cit+(-0.0021)Val+(-0.2102)Met+(0.1306)Phe+(-0.1546)Trp;0.835,0.861,0
.788,0.765,0.796,0.837,0.795,0.798,(7.1895)+(0.0073)Gly+(-0.0741)His+
(-0.0521)Cit+(-0.0824)Met+(0.0802)Ile+(-0.1175)Trp;0.835,0.859,0.759,
0.732,0.744,0.845,0.801,0.780,(2.0795)+(0.0403)Ser+(-0.0969)Asn+(0.00
72)Gln+(-0.1448)His+(-0.0173)Tyr+(0.0601)Ile;0.835,0.865,0.760,0.724,
0.777,0.832,0.768,0.775,(4.7531)+(0.0407)Ser+(-0.1179)His+(0.0206)Orn
+(-0.0051)Lys+(0.0308)Leu+(-0.1136)Trp;0.835,0.858,0.810,0.807,0.799,
0.856,0.807,0.817,(4.6538)+(0.0369)Ser+(-0.0060)Gly+(0.0070)Gln+(-0.1
083)His+(-0.0002)Ala+(-0.0989
)Trp;0.835,0.856,0.746,0.738,0.716,0.784,0.802,0.760,(3.5333)+(-0.124
6)His+(0.0136)Thr+(-0.0662)Tyr+(0.1101)Ile+(-0.0549)Leu+(0.1064)Phe;0
.835,0.864,0.769,0.773,0.756,0.756,0.798,0.771,(0.9698)+(0.0451)Ser+(
-0.0099)Gly+(0.0061)Pro+(-0.0557)Tyr+(0.0936)Phe+(-0.1626)Trp;0.835,0
.860,0.753,0.729,0.725,0.858,0.801,0.778,(2.9110)+(0.0434)Ser+(-0.111
1)His+(-0.0072)Ala+(-0.0221)Arg+(0.1379)Ile+(-0.0458)Leu;0.835,0.868,
0.786,0.793,0.795,0.797,0.741,0.782,(1.1616)+(0.0328)Ser+(0.0056)Thr+
(-0.0303)Arg+(-0.0071)Val+(0.0986)Phe+(-0.1687)Trp;0.835,0.858,0.812,
0.795,0.818,0.835,0.825,0.818,(5.3350)+(0.0105)Gln+(-0.1144)His+(-0.0
470)Cit+(0.0053)Pro+(0.0250)Leu+(-0.1274)Trp;0.835,0.866,0.802,0.806,
0.798,0.822,0.788,0.803,(1.1516)+(0.0349)Ser+(-0.0062)Ala+(-0.0271)Ar
g+(0.0105)Orn+(0.0932)Phe+(-0.1621)Trp;0.835,0.861,0.759,0.745,0.722,
0.824,0.827,0.779,(2.6109)+(0.0283)Ser+(-0.0063)Thr+(-0.0397)Val+(0.0
052)Orn+(0.1460)Ile+(-0.1441)Trp;0.835,0.861,0.782,0.769,0.814,0.834,

0.712,0.782,(4.3266)+(0.0288)Ser+(-0.1178)Cit+(0.0064)Pro+(0.0003)Val+(0.0442)Orn+(-0.1736)Trp;0.835,0.860,0.759,0.742,0.775,0.790,0.750,0.764,(3.6450)+(-0.1437)His+(0.0432)Thr+(0.0056)Pro+(-0.0289)Tyr+(-0.3014)Met+(0.1470)Phe;0.835,0.858,0.748,0.712,0.729,0.853,0.810,0.776,(3.1602)+(0.0470)Ser+(-0.0698)Asn+(-0.1312)His+(0.0040)Thr+(-0.0068)Ala+(0.0725)Ile;0.835,0.858,0.800,0.796,0.783,0.826,0.826,0.808,(6.0344)+(-0.0697)Asn+(0.0005)Gly+(0.0097)Thr+(0.1321)Ile+(-0.0601)Leu+(-0.1377)Trp;0.835,0.863,0.806,0.800,0.815,0.841,0.778,0.808,(5.6698)+(0.0491)Ser+(-0.0916)Asn+(-0.0042)Gly+(-0.0667)Cit+(0.0109)Pro+(-0.1433)Trp;0.835,0.860,0.763,0.737,0.784,0.803,0.761,0.771,(3.3642)+(0.0127)Asn+(-0.1496)His+(0.0418)Thr+(0.0045)Pro+(-0.3422)Met+(0.1408)Phe;0.835,0.861,0.806,0.791,0.776,0.870,0.867,0.826,(3.8177)+(0.0099)Gln+(-0.0841)His+(-0.0437)Cit+(-0.0357)Val+(-0.2381)Met+(0.1582)Ile;0.835,0.868,0.829,0.819,0.834,0.831,0.846,0.832,(6.0735)+(-0.0928)His+(-0.0008)Ala+(0.0043)Arg+(-0.1343)Met+(0.1310)Phe+(-0.1059)Trp;0.835,0.862,0.782,0.767,0.786,0.838,0.775,0.792,(5.7996)+(0.0484)Ser+(-0.0053)Gly+(-0.0907)His+(-0.0126)Arg+(0.0113)Pro+(-0.1048)Trp;0.835,0.861,0.809,0.795,0.777,0.870,0.866,0.827,(3.5449)+(0.0097)Gln+(-0.1107)His+(-0.0046)Ala+(-0.1764)Met+(0.1360)Ile+(-0.0448)Leu;0.835,0.869,0.841,0.853,0.839,0.816,0.833,0.835,(3.7383)+(-0.1400)Asn+(0.0051)Gln+(0.0197)Thr+(-0.0110)Val+(0.0931)Phe+(-0.1507)Trp;0.835,0.865,0.799,0.775,0.821,0.827,0.798,0.805,(6.1355)+(-0.0891)His+(-0.0879)Cit+(-0.0012)Val+(0.0475)Orn+(0.1032)Phe+(-0.1324)Trp;0.835,0.864,0.808,0.786,0.824,0.847,0.808,0.816,(5.5420)+(0.0089)Gln+(-0.1091)His+(-0.0733)Cit+(0.0395)Orn+(0.0225)Leu+(-0.1294)Trp;0.835,0.862,0.779,0.770,0.796,0.797,0.752,0.779,(1.2932)+(0.0392)Ser+(-0.0950)Cit+(-0.0120)Arg+(0.0047)Leu+(0.0983)Phe+(-0.1857)Trp;0.835,0.861,0.712,0.661,0.712,0.814,0.772,0.740,(0.6351)+(0.0494)Ser+(-0.1635)His+(0.0077)Orn+(-0.0195)Lys+(0.0463)I

le+(0.0803)Phe;0.835,0.859,0.772,0.759,0.703,0.885,0.867,0.803,(2.838
0)+(0.0444)Ser+(-0.1585)Asn+(-0.0075)Ala+(-0.0534)Val+(-0.0027)Lys+(0
.1886)Ile;0.835,0.859,0.794,0.774,0.755,0.879,0.866,0.818,(5.0578)+(-
0.0073)Ala+(-0.0784)Cit+(-0.0530)Val+(-0.2095)Met+(0.0459)Orn+(0.1907
)Ile;0.835,0.867,0.790,0.782,0.793,0.785,0.811,0.793,(1.2565)+(0.0446
)Ser+(-0.0087)Gly+(0.0027)Thr+(-0.0138)Lys+(0.0807)Phe+(-0.1653)Trp;0
.835,0.865,0.859,0.875,0.857,0.820,0.854,0.851,(2.1650)+(-0.0499)Asn+
(0.0079)Gln+(-0.0068)Val+(-0.2042)Met+(0.1209)Phe+(-0.1369)Trp;0.835,
0.861,0.759,0.744,0.777,0.799,0.730,0.763,(3.2564)+(0.0045)Gly+(-0.15
22)His+(0.0413)Thr+(-0.0175)Tyr+(-0.3071)Met+(0.1548)Phe;0.835,0.858,
0.746,0.709,0.722,0.852,0.819,0.776,(1.6272)+(0.0363)Ser+(0.0039)Gln+
(-0.1523)His+(-0.0082)Ala+(0.0040)Pro+(0.0640)Ile;0.835,0.861,0.796,0
.778,0.785,0.829,0.844,0.809,(7.2919)+(-0.0042)Asn+(-0.0745)His+(-0.0
017)Tyr+(0.1166)Ile+(-0.0377)Leu+(-0.1134)Trp;0.835,0.861,0.816,0.810
,0.764,0.886,0.894,0.838,(3.3920)+(0.0060)Gln+(-0.0069)Ala+(-0.0621)C
it+(-0.0493)Val+(-0.2486)Met+(0.1954)Ile;0.835,0.861,0.785,0.794,0.79
8,0.836,0.700,0.782,(4.4960)+(0.0362)Ser+(0.0170)Thr+(-0.0169)Arg+(0.
0123)Pro+(-0.2185)Met+(-0.1388)Trp;0.834,0.861,0.809,0.808,0.836,0.81
0,0.756,0.802,(5.2585)+(-0.1032)Asn+(0.0039)Gly+(0.0242)Thr+(-0.0997)
Cit+(0.1002)Phe+(-0.1719)Trp;0.834,0.860,0.774,0.763,0.718,0.830,0.87
6,0.797,(4.2123)+(-0.0966)His+(-0.0061)Ala+(-0.0357)Tyr+(-0.0369)Val+
(0.1340)Ile+(0.0875)Phe;0.834,0.867,0.826,0.812,0.836,0.827,0.841,0.8
29,(5.8198)+(0.0222)Asn+(-0.0972)His+(0.0108)Tyr+(-0.1648)Met+(0.1309
)Phe+(-0.1097)Trp;0.834,0.865,0.794,0.804,0.785,0.809,0.775,0.793,(1.
0455)+(0.0367)Ser+(-0.0046)Ala+(-0.0236)Arg+(-0.0257)Tyr+(0.1097)Phe+
(-0.1562)Trp;0.834,0.865,0.748,0.706,0.759,0.845,0.768,0.769,(2.3394)
+(0.0529)Ser+(-0.1160)His+(-0.0378)Cit+(0.0050)Pro+(-0.2300)Met+(0.07
78)Ile;0.834,0.865,0.746,0.700,0.750,0.841,0.790,0.770,(2.1242)+(0.05

59)Ser+(-0.0027)Gly+(-0.1241)His+(0.0046)Pro+(-0.2303)Met+(0.0765)Ile
;0.834,0.862,0.802,0.786,0.793,0.833,0.840,0.813,(3.5538)+(0.0057)Gly
+(-0.0102)Ala+(-0.1064)Cit+(0.0740)Ile+(0.0843)Phe+(-0.1772)Trp;0.834
,0.862,0.818,0.819,0.795,0.838,0.849,0.825,(4.6846)+(-0.0857)Asn+(0.0
056)Gln+(0.0033)Orn+(0.1350)Ile+(-0.0630)Leu+(-0.1375)Trp;0.834,0.859
,0.822,0.819,0.820,0.844,0.819,0.826,(5.8276)+(-0.0449)Asn+(0.0104)Gl
n+(-0.1147)His+(0.0062)Val+(0.0209)Orn+(-0.1069)Trp;0.834,0.868,0.805
,0.810,0.829,0.781,0.757,0.794,(2.8551)+(0.0375)Thr+(-0.0088)Tyr+(-0.
3326)Met+(0.0005)Leu+(0.1319)Phe+(-0.1587)Trp;0.834,0.864,0.779,0.753
,0.791,0.834,0.785,0.791,(5.2187)+(0.0432)Ser+(-0.0045)Gly+(-0.1089)H
is+(0.0088)Val+(0.0213)Orn+(-0.1104)Trp;0.834,0.861,0.803,0.797,0.815
,0.846,0.765,0.806,(8.2476)+(-0.0905)His+(0.0266)Thr+(0.0161)Tyr+(-0.
1381)Met+(0.0264)Orn+(-0.1067)Trp;0.834,0.865,0.742,0.700,0.746,0.840
,0.775,0.765,(2.1121)+(0.0522)Ser+(-0.0021)Asn+(-0.1254)His+(0.0046)P
ro+(-0.2309)Met+(0.0775)Ile;0.834,0.859,0.729,0.684,0.728,0.819,0.789
,0.755,(0.7500)+(0.0582)Ser+(-0.1061)Asn+(-0.0012)Gly+(-0.1542)His+(0
.0372)Ile+(0.0863)Phe;0.834,0.869,0.824,0.809,0.835,0.822,0.841,0.827
,(5.6985)+(-0.1033)His+(0.0068)Tyr+(-0.1887)Met+(0.0153)Lys+(0.1298)P
he+(-0.1180)Trp;0.834,0.862,0.773,0.750,0.773,0.841,0.784,0.787,(5.34
14)+(0.0474)Ser+(-0.0587)Asn+(-0.0975)His+(-0.0170)Val+(0.0565)Leu+(-
0.1041)Trp;0.834,0.862,0.808,0.805,0.807,0.859,0.778,0.812,(4.4581)+(
0.0318)Ser+(0.0084)Gln+(-0.1182)His+(-0.0200)Arg+(0.0242)Tyr+(-0.1062
)Trp;0.834,0.868,0.786,0.770,0.801,0.818,0.778,0.792,(5.1984)+(0.0071
)Gly+(-0.0984)His+(-0.0664)Cit+(0.0055)Pro+(0.1192)Phe+(-0.1279)Trp;0
.834,0.865,0.768,0.759,0.758,0.828,0.767,0.778,(2.9158)+(0.0361)Ser+(
-0.0349)Arg+(0.0071)Orn+(0.1645)Ile+(-0.0736)Leu+(-0.1444)Trp;0.834,0
.863,0.758,0.741,0.726,0.827,0.820,0.778,(2.9945)+(0.0288)Ser+(-0.038
6)Val+(0.0072)Orn+(-0.0117)Lys+(0.1501)Ile+(-0.1361)Trp;0.834,0.858,0

.823,0.821,0.820,0.838,0.825,0.826,(5.7512)+(-0.0441)Asn+(0.0112)Gln+(-0.1141)His+(0.0054)Pro+(0.0068)Val+(-0.1094)Trp;0.834,0.858,0.810,0.810,0.814,0.844,0.773,0.810,(6.2676)+(0.0092)Gln+(-0.1177)His+(0.0169)Thr+(-0.0245)Arg+(0.0244)Orn+(-0.1087)Trp;0.834,0.858,0.759,0.726,0.736,0.863,0.818,0.786,(1.5527)+(0.0369)Ser+(0.0054)Gln+(-0.1401)His+(-0.0085)Ala+(-0.0583)Cit+(0.0752)Ile;0.834,0.857,0.768,0.740,0.774,0.838,0.777,0.782,(4.9006)+(0.0430)Ser+(-0.1125)His+(-0.0023)Ala+(-0.0024)Lys+(0.0346)Leu+(-0.1109)Trp;0.834,0.864,0.785,0.773,0.759,0.837,0.834,0.801,(5.9978)+(0.0034)Gly+(-0.0651)Cit+(-0.0067)Arg+(-0.0366)Val+(0.1525)Ile+(-0.1405)Trp;0.834,0.860,0.786,0.770,0.791,0.840,0.780,0.795,(5.2911)+(0.0035)Gly+(-0.1063)Cit+(0.0352)Orn+(0.1359)Ile+(-0.0568)Leu+(-0.1559)Trp;0.834,0.860,0.763,0.744,0.781,0.812,0.737,0.769,(3.1298)+(0.0052)Gly+(-0.1535)His+(0.0401)Thr+(-0.0008)Ala+(-0.3236)Met+(0.1511)Phe;0.834,0.863,0.792,0.774,0.780,0.828,0.840,0.806,(6.9721)+(-0.0793)His+(-0.0055)Tyr+(0.0061)Lys+(0.1171)Ile+(-0.0401)Leu+(-0.1165)Trp;0.834,0.860,0.810,0.789,0.799,0.842,0.863,0.823,(6.4475)+(-0.0105)Ala+(-0.0883)Cit+(0.0055)Arg+(0.0095)Pro+(0.0765)Ile+(-0.1611)Trp;0.834,0.864,0.779,0.754,0.774,0.851,0.802,0.795,(3.2630)+(0.0014)Gly+(0.0087)Gln+(-0.1484)His+(0.0257)Thr+(-0.2723)Met+(0.0715)Ile;0.834,0.861,0.760,0.748,0.721,0.823,0.824,0.779,(2.6142)+(0.0297)Ser+(-0.0072)Thr+(-0.0315)Val+(0.1663)Ile+(-0.0258)Leu+(-0.1397)Trp;0.834,0.865,0.809,0.787,0.805,0.841,0.851,0.821,(0.3521)+(0.0136)Gln+(-0.1539)His+(-0.0110)Arg+(-0.2780)Met+(0.0489)Ile+(0.1057)Phe;0.834,0.861,0.784,0.770,0.813,0.835,0.722,0.785,(4.2459)+(0.0324)Ser+(-0.0075)Thr+(-0.1168)Cit+(0.0075)Pro+(0.0475)Orn+(-0.1687)Trp;0.834,0.860,0.807,0.809,0.801,0.832,0.795,0.809,(3.2624)+(0.0489)Ser+(-0.0084)Gly+(0.0028)Gln+(0.0131)Pro+(-0.2055)Met+(-0.1387)Trp;0.834,0.863,0.815,0.806,0.805,0.847,0.837,0.824,(6.4084)+(-0.0573)Cit+(-0.1312)Met+(0.0082)Lys

+(0.1537)Ile+(-0.0630)Leu+(-0.1324)Trp;0.834,0.860,0.759,0.726,0.748,0.845,0.805,0.781,(1.7828)+(0.0410)Ser+(-0.1029)Asn+(0.0074)Gln+(-0.1508)His+(-0.0011)Pro+(0.0580)Ile;0.834,0.861,0.815,0.809,0.839,0.809,0.787,0.811,(5.6994)+(-0.0955)Asn+(0.0245)Thr+(-0.0942)Cit+(0.0025)Pro+(0.0945)Phe+(-0.1750)Trp;0.834,0.868,0.827,0.815,0.834,0.826,0.843,0.830,(6.0296)+(-0.0946)His+(0.0047)Arg+(0.0013)Val+(-0.1402)Met+(0.1287)Phe+(-0.1076)Trp;0.834,0.866,0.821,0.803,0.813,0.840,0.870,0.831,(5.0614)+(-0.0093)Ala+(-0.0975)Cit+(-0.0097)Lys+(0.0746)Ile+(0.0890)Phe+(-0.1665)Trp;0.834,0.864,0.784,0.758,0.779,0.854,0.813,0.801,(3.3967)+(-0.0093)Asn+(0.0092)Gln+(-0.1473)His+(0.0265)Thr+(-0.2643)Met+(0.0696)Ile;0.834,0.861,0.723,0.685,0.704,0.824,0.790,0.751,(0.4006)+(0.0470)Ser+(-0.1306)His+(-0.0324)Arg+(-0.0354)Val+(0.1216)Ile+(0.0922)Phe;0.834,0.858,0.774,0.745,0.778,0.836,0.796,0.789,(4.9508)+(0.0475)Ser+(-0.0038)Gly+(-0.1109)His+(-0.0023)Ala+(0.0322)Leu+(-0.1122)Trp;0.834,0.858,0.774,0.756,0.797,0.814,0.748,0.779,(4.0891)+(-0.1358)His+(0.0449)Thr+(-0.0365)Cit+(-0.0055)Val+(-0.3178)Met+(0.1538)Phe;0.834,0.862,0.805,0.799,0.819,0.842,0.767,0.807,(4.7904)+(0.0460)Ser+(-0.0590)Asn+(-0.0655)Cit+(-0.1056)Met+(0.0255)Leu+(-0.1440)Trp;0.834,0.861,0.792,0.774,0.797,0.850,0.790,0.803,(5.7446)+(0.0408)Ser+(-0.0051)Gly+(-0.0958)His+(-0.0011)Ala+(0.0294)Orn+(-0.0987)Trp;0.834,0.857,0.765,0.740,0.793,0.804,0.744,0.770,(3.8672)+(-0.1393)His+(0.0436)Thr+(-0.0393)Cit+(0.0046)Pro+(-0.3317)Met+(0.1416)Phe;0.834,0.865,0.800,0.775,0.823,0.827,0.797,0.806,(6.

2191)+(-0.0880)His+(-0.0894)Cit+(0.0481)Orn+(-0.0020)Lys+(0.1028)Phe+(-0.1325)Trp;0.834,0.863,0.796,0.768,0.820,0.823,0.800,0.803,(6.1576)+(-0.0925)His+(-0.0870)Cit+(0.0455)Orn+(0.0073)Leu+(0.0955)Phe+(-0.1381)Trp;0.834,0.861,0.832,0.821,0.832,0.854,0.843,0.837,(5.6798)+(-0.0418)Asn+(0.0122)Gln+(-0.1076)His+(-0.0445)Cit+(0.0264)Leu+(-0.1190)Tr

p;0.834,0.861,0.819,0.812,0.816,0.847,0.824,0.825,(5.1407)+(0.0022)Gly+(0.0109)Gln+(-0.1202)His+(-0.0953)Met+(0.0290)Leu+(-0.1087)Trp;0.834,0.860,0.726,0.681,0.725,0.818,0.779,0.751,(0.7809)+(0.0556)Ser+(-0.1124)Asn+(-0.1565)His+(0.0036)Thr+(0.0367)Ile+(0.0873)Phe;0.834,0.861,0.821,0.824,0.797,0.840,0.850,0.828,(4.6768)+(-0.0825)Asn+(0.0059)Gln+(-0.0031)Pro+(0.1416)Ile+(-0.0639)Leu+(-0.1372)Trp;0.834,0.860,0.762,0.738,0.755,0.842,0.779,0.779,(1.6896)+(0.0576)Ser+(-0.1017)Asn+(-0.1336)His+(-0.0043)Ala+(-0.0385)Cit+(0.1204)Phe;0.834,0.863,0.810,0.796,0.825,0.848,0.790,0.815,(5.9151)+(0.0082)Gln+(-0.0955)His+(-0.0766)Cit+(0.0066)Pro+(0.0440)Orn+(-0.1191)Trp;0.834,0.856,0.756,0.739,0.785,0.808,0.704,0.759,(3.4431)+(0.0059)Gly+(-0.1523)His+(0.0455)Thr+(-0.0175)Arg+(-0.3252)Met+(0.1538)Phe;0.834,0.858,0.720,0.693,0.701,0.804,0.775,0.743,(-0.1250)+(0.0393)Ser+(0.0034)Gln+(-0.1690)His+(-0.0504)Tyr+(0.0399)Ile+(0.0932)Phe;0.834,0.865,0.790,0.788,0.777,0.801,0.811,0.794,(3.7626)+(0.0114)Thr+(-0.0337)Arg+(0.1484)Ile+(-0.0796)Leu+(0.0762)Phe+(-0.1572)Trp;0.834,0.861,0.747,0.727,0.715,0.819,0.814,0.769,(3.3598)+(0.0300)Ser+(-0.0032)Gln+(-0.0415)Val+(0.0067)Orn+(0.1513)Ile+(-0.1414)Trp;0.834,0.860,0.802,0.803,0.797,0.854,0.773,0.807,(3.5089)+(0.0421)Ser+(-0.0047)Ala+(0.0151)Pro+(0.0293)Tyr+(-0.2152)Met+(-0.1381)Trp;0.834,0.860,0.821,0.823,0.813,0.844,0.814,0.824,(5.3787)+(0.0101)Gln+(-0.1055)His+(0.0101)Pro+(-0.1278)Met+(0.0110)Lys+(-0.1050)Trp;0.834,0.857,0.807,0.803,0.797,0.854,0.806,0.815,(4.5673)+(0.0365)Ser+(-0.0059)Gly+(0.0068)Gln+(-0.1102)His+(0.0022)Lys+(-0.1011)Trp;0.834,0.861,0.710,0.669,0.695,0.807,0.780,0.738,(-0.0942)+(0.0415)Ser+(-0.1565)His+(0.0006)Orn+(0.0972)Ile+(-0.0472)Leu+(0.0840)Phe;0.834,0.859,0.818,0.811,0.813,0.843,0.828,0.824,(5.5039)+(-0.0444)Asn+(0.0020)Gly+(0.0110)Gln+(-0.1213)His+(0.0245)Leu+(-0.1119)Trp;0.834,0.859,0.825,0.810,0.813,0.854,0.866,0.836,(4.3958)+(0.0058)Gln+(-0.0093)Ala

+(-0.0916)Cit+(0.0065)Tyr+(0.0836)Ile+(-0.1739)Trp;0.834,0.865,0.796,0.768,0.819,0.823,0.798,0.802,(6.0697)+(-0.0898)His+(-0.0881)Cit+(0.0032)Pro+(0.0453)Orn+(0.0988)Phe+(-0.1354)Trp;0.834,0.865,0.744,0.701,0.749,0.844,0.774,0.767,(2.2164)+(0.0507)Ser+(-0.0074)Asn+(-0.1290)His+(-0.2166)Met+(0.0134)Orn+(0.0787)Ile;0.834,0.862,0.787,0.766,0.782,0.825,0.824,0.799,(3.1726)+(0.0521)Ser+(-0.1141)Asn+(-0.0065)Gly+(0.0057)Orn+(0.0541)Ile+(-0.1544)Trp;0.834,0.862,0.796,0.776,0.800,0.844,0.805,0.806,(6.2021)+(-0.1035)Cit+(0.0412)Orn+(-0.0061)Lys+(0.1315)Ile+(-0.0532)Leu+(-0.1489)Trp;0.834,0.860,0.828,0.822,0.824,0.849,0.840,0.834,(5.4431)+(-0.0227)Asn+(0.0118)Gln+(-0.1159)His+(-0.0759)Met+(0.0268)Leu+(-0.1078)Trp;0.834,0.864,0.810,0.793,0.807,0.827,0.847,0.819,(6.2085)+(-0.1093)His+(-0.0038)Ala+(0.0043)Lys+(0.0114)Leu+(0.0971)Phe+(-0.1217)Trp;0.834,0.862,0.806,0.782,0.797,0.840,0.859,0.820,(7.9052)+(-0.0752)His+(-0.0053)Ala+(0.0067)Pro+(-0.0754)Met+(0.0728)Ile+(-0.1111)Trp;0.834,0.862,0.785,0.773,0.819,0.836,0.708,0.784,(4.6594)+(0.0304)Ser+(-0.1102)Cit+(-0.0122)Arg+(0.0071)Pro+(0.0463)Orn+(-0.1701)Trp;0.834,0.860,0.759,0.738,0.781,0.808,0.733,0.765,(3.0484)+(0.0051)Gly+(-0.1553)His+(0.0397)Thr+(-0.3264)Met+(0.0033)Orn+(0.1492)Phe;0.834,0.855,0.713,0.673,0.689,0.811,0.796,0.742,(0.2218)+(0.0390)Ser+(-0.1411)His+(-0.0249)Val+(0.1164)Ile+(-0.0191)Leu+(0.0794)Phe;0.834,0.860,0.795,0.787,0.756,0.842,0.862,0.812,(6.5788)+(-0.0756)Asn+(0.0020)Gly+(0.0005)Pro+(-0.0425)Val+(0.1547)Ile+(-0.1146)Trp;0.834,0.860,0.731,0.686,0.735,0.824,0.774,0.755,(0.7947)+(0.0585)Ser+(-0.1075)Asn+(-0.1447)His+(-0.0416)Cit+(0.0397)Ile+(0.0895)Phe;0.834,0.866,0.791,0.799,0.795,0.799,0.755,0.787,(0.9162)+(0.0346)Ser+(0.0004)Gln+(-0.0278)Arg+(-0.0064)Val+(0.0983)Phe+(-0.1663)Trp;0.834,0.866,0.804,0.790,0.811,0.808,0.828,0.809,(6.1843)+(-0.1026)His+(-0.0067)Arg+(0.0049)Pro+(-0.0012)Val+(0.1030)Phe+(-0.1167)Trp;0.834,0.862,0.785,0.756,0.792,

0.835,0.807,0.798,(6.9314)+(0.0047)Gly+(-0.0928)His+(-0.1046)Met+(0.0217)Orn+(0.0705)Ile+(-0.1091)Trp;0.834,0.861,0.789,0.781,0.792,0.817,0.788,0.794,(3.1202)+(0.0542)Ser+(-0.0076)Gly+(0.0112)Pro+(-0.2193)Met+(0.0173)Leu+(-0.1457)Trp;0.834,0.861,0.775,0.745,0.781,0.822,0.807,0.789,(6.7691)+(0.0035)Gly+(-0.1048)His+(-0.0032)Tyr+(0.0214)Orn+(0.0626)Ile+(-0.1180)Trp;0.834,0.860,0.771,0.758,0.783,0.803,0.755,0.775,(3.8651)+(-0.1402)His+(0.0444)Thr+(-0.0219)Tyr+(-0.0055)Val+(-0.2943)Met+(0.1584)Phe;0.834,0.859,0.746,0.721,0.743,0.827,0.761,0.763,(1.3735)+(0.0547)Ser+(-0.1206)Asn+(-0.1390)His+(-0.0094)Val+(0.0207)Orn+(0.1213)Phe;0.834,0.859,0.791,0.770,0.820,0.833,0.757,0.795,(4.2335)+(0.0350)Ser+(-0.0043)Gly+(-0.1140)Cit+(0.0439)Orn+(0.0120)Leu+(-0.1781)Trp;0.834,0.855,0.752,0.718,0.726,0.855,0.824,0.781,(1.5396)+(0.0375)Ser+(0.0045)Gln+(-0.1511)His+(-0.0048)Thr+(-0.0072)Ala+(0.0685)Ile;0.834,0.861,0.803,0.785,0.818,0.837,0.797,0.809,(7.1356)+(-0.0512)Asn+(0.0208)Thr+(-0.0850)Cit+(-0.0086)Lys+(0.0648)Ile+(-0.1678)Trp;0.834,0.860,0.782,0.770,0.813,0.835,0.713,0.783,(4.3078)+(0.0285)Ser+(0.0002)Gln+(-0.1177)Cit+(0.0065)Pro+(0.0443)Orn+(-0.1733)Trp;0.834,0.859,0.780,0.755,0.787,0.834,0.795,0.793,(7.0430)+(-0.0072)Asn+(0.0068)Gly+(-0.0795)His+(-0.0566)Cit+(0.0744)Ile+(-0.1271)Trp;0.834,0.858,0.808,0.808,0.806,0.866,0.773,0.813,(4.7598)+(0.0303)Ser+(0.0071)Gln+(-0.0984)His+(-0.0002)Ala+(-0.0395)Cit+(-0.1021)Trp;0.834,0.869,0.809,0.788,0.804,0.840,0.852,0.821,(7.3738)+(-0.0616)His+(0.0178)Tyr+(-0.1225)Met+(0.1277)Ile+(-0.0413)Leu+(-0.1097)Trp;0.834,0.864,0.771,0.747,0.785,0.838,0.761,0.783,(5.0369)+(0.0373)Ser+(-0.1137)His+(0.0048)Tyr+(0.0093)Val+(0.0200)Orn+(-0.1117)Trp;0.834,0.857,0.770,0.751,0.716,0.838,0.885,0.798,(4.0360)+(-0.1005)His+(-0.0080)Ala+(0.0028)Pro+(-0.0379)Val+(0.1315)Ile+(0.0677)Phe;0.834,0.862,0.811,0.799,0.821,0.827,0.809,0.814,(5.0812)+(-0.0100)Ala+(-0.1312)Cit+(0.0110)Pro+(0.0497)Orn+(0.0

868)Phe+(-0.1692)Trp;0.834,0.859,0.776,0.764,0.793,0.796,0.758,0.778,(1.0975)+(0.0370)Ser+(0.0002)Gln+(-0.1043)Cit+(0.0044)Leu+(0.0944)Phe+(-0.1891)Trp;0.834,0.861,0.796,0.790,0.756,0.842,0.862,0.812,(6.5001)+(-0.0860)Asn+(0.0020)Gly+(-0.0435)Val+(0.0049)Lys+(0.1542)Ile+(-0.1166)Trp;0.834,0.870,0.775,0.770,0.779,0.782,0.771,0.776,(0.5347)+(0.0349)Ser+(-0.0009)Thr+(-0.0134)Lys+(0.0057)Leu+(0.0805)Phe+(-0.1700)Trp;0.834,0.869,0.799,0.778,0.810,0.815,0.819,0.806,(6.2261)+(-0.1113)His+(-0.0077)Arg+(0.0235)Orn+(0.0071)Leu+(0.0878)Phe+(-0.1190)Trp;0.834,0.867,0.770,0.772,0.766,0.780,0.765,0.771,(0.9541)+(0.0309)Ser+(-0.0017)Gln+(-0.0076)Val+(0.0037)Orn+(0.0849)Phe+(-0.1672)Trp;0.834,0.860,0.769,0.747,0.784,0.833,0.753,0.779,(5.2169)+(0.0372)Ser+(-0.1153)His+(0.0071)Thr+(0.0069)Tyr+(0.0109)Val+(-0.1155)Trp;0.834,0.859,0.718,0.690,0.710,0.807,0.746,0.738,(0.5766)+(0.0505)Ser+(-0.1557)His+(-0.0239)Arg+(-0.0490)Tyr+(0.0448)Ile+(0.1054)Phe;0.834,0.856,0.817,0.815,0.807,0.842,0.826,0.822,(5.6201)+(0.0099)Gln+(-0.1187)His+(-0.0042)Ala+(0.0081)Pro+(0.0091)Val+(-0.1126)Trp;0.834,0.862,0.792,0.775,0.814,0.830,0.767,0.797,(8.4242)+(-0.1028)His+(0.0378)Thr+(-0.0066)Arg+(-0.1636)Met+(0.0310)Leu+(-0.1132)Trp;0.834,0.861,0.782,0.773,0.793,0.856,0.732,0.789,(6.1399)+(0.0341)Ser+(-0.0919)His+(0.0134)Thr+(-0.0435)Cit+(0.0040)Lys+(-0.1107)Trp;0.834,0.863,0.824,0.816,0.851,0.825,0.791,0.821,(5.2480)+(-0.0256)Asn+(-0.1096)Cit+(-0.1293)Met+(0.0466)Orn+(0.1040)Phe+(-0.1555)Trp;0.834,0.869,0.804,0.796,0.802,0.803,0.829,0.807,(6.1499)+(-0.0108)Asn+(-0.1001)His+(0.0056)Pro+(-0.0204)Tyr+(0.1092)Phe+(-0.1112)Trp;0.834,0.863,0.757,0.725,0.765,0.831,0.772,0.774,(4.7920)+(0.0381)Ser+(-0.1160)His+(-0.0166)Val+(0.0227)Orn+(0.0531)Leu+(-0.1139)Trp;0.834,0.861,0.788,0.768,0.794,0.846,0.785,0.798,(5.6152)+(0.0406)Ser+(-0.0051)Gly+(-0.0985)His+(0.0275)Orn+(0.0013)Lys+(-0.1013)Trp;0.834,0.860,0.794,0.788,0.756,0.840,0.859,0.811,(6.5226)+(-0.0

721)Asn+(0.0020)Gly+(-0.0381)Val+(0.1650)Ile+(-0.0143)Leu+(-0.1139)Tr
p;0.834,0.855,0.827,0.831,0.812,0.852,0.827,0.831,(6.2477)+(-0.0465)A
sn+(0.0109)Gln+(-0.1006)His+(-0.0028)Ala+(0.0099)Pro+(-0.1003)Trp;0.8
34,0.859,0.741,0.708,0.745,0.824,0.762,0.760,(1.4327)+(0.0557)Ser+(-0
.0966)Asn+(-0.1480)His+(0.0173)Orn+(-0.0092)Lys+(0.1108)Phe;0.834,0.8
58,0.796,0.790,0.800,0.848,0.763,0.800,(4.9508)+(0.0330)Ser+(0.0021)T
hr+(-0.0070)Ala+(-0.0828)Cit+(0.0159)Pro+(-0.1517)Trp;0.834,0.856,0.7
42,0.705,0.722,0.850,0.805,0.770,(2.7844)+(0.0437)Ser+(-0.1344)His+(0
.0016)Thr+(-0.0069)Ala+(-0.0107)Lys+(0.0774)Ile;0.834,0.866,0.792,0.7
83,0.804,0.860,0.744,0.798,(5.9450)+(0.0384)Ser+(-0.0885)His+(-0.0109
)Arg+(-0.0689)Met+(0.0353)Orn+(-0.0917)Trp;0.834,0.865,0.813,0.800,0.
805,0.847,0.839,0.823,(6.7841)+(-0.0601)Cit+(0.0024)Pro+(-0.1084)Met+
(0.1467)Ile+(-0.0570)Leu+(-0.1301)Trp;0.834,0.862,0.778,0.762,0.788,0
.847,0.751,0.787,(5.5511)+(0.0323)Ser+(-0.1052)His+(0.0050)Thr+(0.007
1)Tyr+(0.0243)Orn+(-0.1045)Trp;0.834,0.860,0.798,0.804,0.799,0.839,0.
749,0.798,(4.6268)+(0.0451)Ser+(-0.0586)Asn+(-0.0077)Arg+(0.0130)Pro+
(-0.1371)Met+(-0.1283)Trp;0.834,0.856,0.779,0.761,0.785,0.843,0.767,0
.789,(5.2556)+(0.0400)Ser+(-0.1092)His+(-0.0020)Ala+(0.0128)Val+(0.00
19)Lys+(-0.1092)Trp;0.834,0.866,0.827,0.815,0.838,0.828,0.832,0.828,(
6.1532)+(0.0184)Asn+(-0.0846)His+(-0.0457)Cit+(-0.1288)Met+(0.1397)Ph
e+(-0.1166)Trp;0.834,0.878,0.756,0.740,0.733,0.833,0.793,0.775,(-4.33
52)+(0.0501)Ser+(-0.3984)Met+(-0.0081)Lys+(0.1844)Ile+(-0.0932)Leu+(0
.1283)Phe;0.834,0.861,0.808,0.804,0.773,0.839,0.868,0.821,(5.6402)+(-
0.0092)Ala+(0.0040)Pro+(0.0011)Lys+(0.1568)Ile+(-0.0662)Leu+(-0.1363)
Trp;0.834,0.861,0.799,0.792,0.758,0.842,0.870,0.816,(6.7362)+(-0.0808
)Asn+(0.0009)Pro+(-0.0434)Val+(0.0048)Lys+(0.1525)Ile+(-0.1176)Trp;0.
834,0.858,0.818,0.824,0.780,0.854,0.856,0.828,(4.6640)+(0.0056)Gln+(-
0.0078)Ala+(-0.0234)Arg+(0.1737)Ile+(-0.0737)Leu+(-0.1371)Trp;0.834,0

.868,0.796,0.791,0.792,0.791,0.821,0.799,(1.2468)+(0.0446)Ser+(-0.0083)Gly+(-0.0039)Val+(-0.0114)Lys+(0.0863)Phe+(-0.1602)Trp;0.834,0.866,0.789,0.767,0.811,0.864,0.749,0.798,(5.9328)+(0.0391)Ser+(-0.0029)Gly+(-0.0813)His+(-0.0769)Cit+(0.0501)Orn+(-0.1113)Trp;0.834,0.860,0.786,0.772,0.799,0.846,0.753,0.793,(5.4812)+(0.0452)Ser+(-0.0996)His+(-0.0053)Arg+(0.0140)Val+(-0.0794)Met+(-0.1044)Trp;0.834,0.859,0.792,0.772,0.781,0.842,0.834,0.807,(7.2836)+(0.0043)Gly+(-0.0908)His+(-0.0049)Ala+(-0.0026)Arg+(0.0771)Ile+(-0.1145)Trp;0.834,0.866,0.776,0.757,0.757,0.824,0.828,0.792,(2.7903)+(0.0422)Ser+(-0.0080)Gly+(-0.0097)Lys+(0.1371)Ile+(-0.0549)Leu+(-0.1492)Trp;0.834,0.863,0.790,0.755,0.807,0.835,0.812,0.802,(7.5332)+(-0.0041)Asn+(-0.0780)His+(-0.0745)Cit+(0.0443)Orn+(0.0585)Ile+(-0.1326)Trp;0.834,0.861,0.797,0.778,0.786,0.830,0.845,0.810,(7.2902)+(-0.0041)Asn+(-0.0748)His+(-0.0007)Pro+(0.1173)Ile+(-0.0379)Leu+(-0.1138)Trp;0.834,0.861,0.834,0.835,0.831,0.855,0.825,0.836,(6.2477)+(-0.0518)Asn+(0.0117)Gln+(-0.0900)His+(-0.0433)Cit+(0.0089)Pro+(-0.1083)Trp;0.834,0.864,0.804,0.801,0.802,0.861,0.772,0.809,(6.2249)+(0.0406)Ser+(-0.0453)Asn+(-0.0837)His+(-0.0578)Met+(0.0121)Lys+(-0.1002)Trp;0.834,0.861,0.795,0.790,0.799,0.854,0.757,0.800,(5.7437)+(0.0381)Ser+(-0.0897)His+(0.0014)Ala+(-0.0967)Met+(0.0110)Lys+(-0.1012)Trp;0.834,0.860,0.797,0.790,0.794,0.851,0.781,0.804,(4.3391)+(0.0295)Ser+(0.0063)Gln+(-0.1185)His+(0.0172)Tyr+(0.0019)Lys+(-0.1078)Trp;0.834,0.857,0.803,0.804,0.800,0.855,0.768,0.807,(4.4848)+(0.0299)Ser+(0.0081)Gln+(-0.1147)His+(-0.0218)Arg+(0.0082)Lys+(-0.1014)Trp;0.834,0.870,0.791,0.798,0.794,0.804,0.756,0.788,(1.0115)+(0.0363)Ser+(-0.0252)Arg+(-0.0054)Val+(-0.0041)Lys+(0.0999)Phe+(-0.1632)Trp;0.834,0.860,0.805,0.798,0.823,0.858,0.746,0.806,(5.1130)+(0.0281)Ser+(-0.0005)Thr+(-0.0049)Ala+(-0.1163)Cit+(0.0555)Orn+(-0.1519)Trp;0.834,0.862,0.805,0.786,0.802,0.821,0.84

8,0.814,(6.3827)+(-0.0175)Asn+(-0.1006)His+(-0.0180)Val+(0.0382)Leu+(0.0971)Phe+(-0.1169)Trp;0.834,0.861,0.818,0.819,0.795,0.837,0.850,0.825,(4.6366)+(-0.0899)Asn+(0.0056)Gln+(0.0031)Lys+(0.1366)Ile+(-0.0647)Leu+(-0.1392)Trp;0.834,0.861,0.831,0.819,0.832,0.844,0.854,0.837,(4.8415)+(-0.0776)Asn+(0.0080)Gln+(-0.0880)Cit+(0.0012)Pro+(0.0598)Ile+(-0.1710)Trp;0.834,0.856,0.801,0.788,0.801,0.828,0.818,0.809,(5.2005)+(0.0012)Gly+(0.0094)Gln+(-0.1290)His+(0.0037)Pro+(0.0235)Leu+(-0.1182)Trp;0.834,0.857,0.807,0.792,0.838,0.817,0.776,0.806,(5.1839)+(-0.1317)Cit+(0.0032)Pro+(0.0518)Orn+(-0.0112)Lys+(0.0823)Phe+(-0.1708)Trp;0.834,0.861,0.802,0.787,0.769,0.863,0.866,0.821,(3.7817)+(0.0080)Gln+(-0.0903)His+(-0.0388)Val+(-0.2652)Met+(0.0078)Lys+(0.1589)Ile;0.834,0.860,0.819,0.808,0.843,0.828,0.788,0.817,(3.8370)+(0.0044)Gln+(-0.1365)Cit+(0.0496)Orn+(-0.0139)Lys+(0.0853)Phe+(-0.1740)Trp;0.834,0.864,0.802,0.791,0.810,0.845,0.779,0.806,(4.1504)+(0.0420)Ser+(-0.0558)Cit+(-0.0195)Val+(-0.1670)Met+(0.0576)Leu+(-0.1413)Trp;0.834,0.868,0.809,0.805,0.798,0.817,0.836,0.814,(1.3680)+(0.0446)Ser+(-0.0076)Gly+(-0.0055)Ala+(-0.0104)Lys+(0.0905)Phe+(-0.1555)Trp;0.834,0.863,0.774,0.759,0.784,0.837,0.748,0.782,(5.5810)+(0.0417)Ser+(-0.0966)His+(-0.0141)Arg+(0.0101)Pro+(0.0114)Tyr+(-0.1066)Trp;0.834,0.862,0.819,0.806,0.827,0.846,0.816,0.824,(3.9769)+(0.0033)Gly+(0.0067)Gln+(-0.0816)Cit+(-0.1573)Met+(0.0736)Ile+(-0.1610)Trp;0.834,0.860,0.799,0.776,0.788,0.836,0.858,0.815,(7.8090)+(-0.0840)His+(-0.0061)Ala+(-0.0018)Arg+(0.0057)Pro+(0.0700)Ile+(-0.1169)Trp;0.834,0.865,0.776,0.760,0.756,0.820,0.827,0.791,(2.6023)+(0.0375)Ser+(-0.0076)Gly+(-0.0033)Pro+(0.1437)Ile+(-0.0619)Leu+(-0.1555)Trp;0.834,0.860,0.789,0.800,0.793,0.836,0.721,0.787,(3.5328)+(0.0332)Ser+(0.0017)Gln+(0.0112)Thr+(0.0117)Pro+(-0.2290)Met+(-0.1419)Trp;0.834,0.857,0.804,0.798,0.817,0.839,0.766,0.805,(8.6343)+(-0.0946)His+(0.0312)Thr+(-0.0009)Ala+(0.0095)Val+(-0.1217)Met+(

-0.1102)Trp;0.834,0.857,0.811,0.811,0.819,0.846,0.771,0.812,(8.7206)+(-0.0238)Asn+(-0.0860)His+(0.0293)Thr+(-0.1232)Met+(0.0112)Lys+(-0.1079)Trp;0.834,0.861,0.824,0.818,0.847,0.824,0.789,0.820,(4.7800)+(-0.1075)Cit+(-0.0053)Val+(-0.1520)Met+(0.0481)Orn+(0.1137)Phe+(-0.1502)Trp;0.834,0.859,0.818,0.810,0.843,0.823,0.786,0.815,(5.8414)+(-0.0616)Asn+(-0.1198)Cit+(0.0498)Orn+(-0.0023)Leu+(0.0820)Phe+(-0.1639)Trp;0.834,0.868,0.829,0.816,0.838,0.832,0.842,0.832,(6.0295)+(-0.0817)His+(-0.0528)Cit+(0.0122)Arg+(-0.1317)Met+(0.1393)Phe+(-0.1178)Trp;0.834,0.860,0.824,0.813,0.823,0.842,0.840,0.829,(5.5578)+(-0.0451)Asn+(0.0114)Gln+(-0.1234)His+(0.0119)Tyr+(0.0228)Leu+(-0.1164)Trp;0.834,0.863,0.779,0.772,0.801,0.797,0.741,0.778,(1.4711)+(0.0369)Ser+(0.0058)Thr+(-0.0950)Cit+(-0.0145)Arg+(0.1017)Phe+(-0.1866)Trp;0.834,0.860,0.800,0.789,0.802,0.861,0.778,0.808,(6.1808)+(0.0426)Ser+(-0.0535)Asn+(-0.0873)His+(-0.0006)Ala+(0.0261)Tyr+(-0.1028)Trp;0.834,0.858,0.802,0.794,0.800,0.852,0.792,0.809,(6.3027)+(0.0471)Ser+(-0.0585)Asn+(-0.0045)Gly+(-0.0839)His+(0.0089)Lys+(-0.1015)Trp;0.834,0.865,0.743,0.699,0.749,0.844,0.774,0.766,(2.2293)+(0.0509)Ser+(-0.1283)His+(-0.2126)Met+(0.0148)Orn+(-0.0038)Lys+(0.0809)Ile;0.834,0.865,0.747,0.702,0.751,0.844,0.788,0.771,(2.1797)+(0.0543)Ser+(-0.0029)Gly+(-0.1285)His+(-0.2206)Met+(0.0140)Orn+(0.0780)Ile;0.834,0.863,0.788,0.753,0.806,0.833,0.815,0.802,(7.3750)+(-0.0798)His+(-0.0759)Cit+(0.0024)Arg+(0.0436)Orn+(0.0590)Ile+(-0.1336)Trp;0.834,0.861,0.819,0.803,0.832,0.845,0.815,0.824,(4.4263)+(0.0061)Gln+(-0.0993)Cit+(-0.1443)Met+(0.0306)Orn+(0.0612)Ile+(-0.1641)Trp;0.834,0.860,0.784,0.791,0.791,0.827,0.719,0.782,(3.8285)+(0.0350)Ser+(0.0108)Thr+(0.0122)Pro+(-0.2308)Met+(0.0030)Lys+(-0.1427)Trp;0.834,0.859,0.729,0.684,0.727,0.822,0.785,0.754,(0.7313)+(0.0566)Ser+(-0.1066)Asn+(-0.1549)His+(-0.0019)Pro+(0.0400)Ile+(0.0879)Phe;0.834,0.867,0.776,0.779,0.770,0.784,0.775,0.777,(0.7541)+(0.0328)Se

r+(-0.0012)Gln+(-0.0040)Thr+(-0.0066)Val+(0.0870)Phe+(-0.1660)Trp;0.834,0.865,0.852,0.858,0.855,0.835,0.843,0.848,(2.0349)+(0.0082)Gln+(-0.0027)Ala+(-0.0866)Cit+(-0.1904)Met+(0.1300)Phe+(-0.1549)Trp;0.834,0.860,0.831,0.841,0.832,0.867,0.778,0.829,(4.6870)+(0.0357)Ser+(-0.1131)Asn+(0.0059)Gln+(-0.0726)Cit+(0.0031)Lys+(-0.1407)Trp;0.834,0.859,0.801,0.797,0.784,0.827,0.830,0.809,(6.0399)+(-0.0715)Asn+(0.0092)Thr+(0.0022)Lys+(0.1324)Ile+(-0.0613)Leu+(-0.1387)Trp;0.834,0.857,0.803,0.802,0.802,0.858,0.771,0.808,(4.6084)+(0.0302)Ser+(0.0067)Gln+(-0.1016)His+(-0.0398)Cit+(0.0038)Lys+(-0.1057)Trp;0.833,0.861,0.793,0.788,0.775,0.801,0.836,0.800,(3.1108)+(-0.0002)Gly+(-0.0053)Pro+(0.1457)Ile+(-0.0749)Leu+(0.0652)Phe+(-0.1576)Trp;0.833,0.858,0.826,0.820,0.818,0.848,0.843,0.832,(5.7091)+(-0.0373)Asn+(0.0113)Gln+(-0.1185)His+(-0.0019)Ala+(0.0255)Leu+(-0.1110)Trp;0.833,0.864,0.790,0.776,0.762,0.833,0.853,0.806,(6.3100)+(-0.0644)Cit+(0.0022)Pro+(-0.0055)Tyr+(-0.0360)Val+(0.1472)Ile+(-0.1400)Trp;0.833,0.860,0.779,0.750,0.788,0.833,0.797,0.792,(6.7698)+(0.0069)Gly+(-0.0835)His+(-0.0583)Cit+(0.0098)Tyr+(0.0736)Ile+(-0.1324)Trp;0.833,0.862,0.814,0.802,0.807,0.849,0.837,0.824,(6.7850)+(0.0006)Asn+(-0.0595)Cit+(-0.1037)Met+(0.1503)Ile+(-0.0577)Leu+(-0.1294)Trp;0.833,0.861,0.792,0.775,0.801,0.847,0.780,0.801,(5.4432)+(0.0499)Ser+(-0.0042)Gly+(-0.0967)His+(0.0136)Val+(-0.0843)Met+(-0.1062)Trp;0.833,0.861,0.776,0.749,0.754,0.853,0.838,0.798,(5.7012)+(0.0030)Gly+(-0.0715)His+(-0.0432)Val+(-0.2213)Met+(0.0293)Orn+(0.1651)Ile;0.833,0.861,0.818,0.800,0.833,0.808,0.838,0.820,(4.2960)+(0.0023)Asn+(-0.0800)Cit+(-0.1901)Met+(0.0573)Ile+(0.1018)Phe+(-0.1639)Trp;0.833,0.860,0.798,0.783,0.765,0.864,0.859,0.818,(3.8349)+(0.0018)Gly+(0.0081)Gln+(-0.0892)His+(-0.0363)Val+(-0.2460)Met+(0.1572)Ile;0.833,0.866,0.828,0.816,0.841,0.828,0.835,0.830,(6.4515)+(-0.0821)His+(-0.0469)Cit+(0.0022)Val+(-0.1143)Met+(0.1339)Phe+(-0.1187)Trp;0.833,0.865

,0.834,0.848,0.831,0.798,0.830,0.827,(1.6917)+(0.0062)Gln+(0.0091)Pro+(-0.0086)Val+(-0.2660)Met+(0.1238)Phe+(-0.1407)Trp;0.833,0.861,0.801,0.797,0.793,0.847,0.796,0.808,(4.2896)+(0.0468)Ser+(-0.0753)Asn+(-0.0293)Val+(-0.1407)Met+(0.0700)Leu+(-0.1256)Trp;0.833,0.859,0.790,0.778,0.746,0.845,0.875,0.811,(4.4293)+(-0.0331)Asn+(-0.1018)His+(-0.0077)Ala+(0.1272)Ile+(-0.0626)Leu+(0.0817)Phe;0.833,0.864,0.827,0.813,0.832,0.842,0.842,0.832,(4.2626)+(0.0072)Gln+(-0.0780)Cit+(0.0037)Pro+(-0.1616)Met+(0.0678)Ile+(-0.1624)Trp;0.833,0.861,0.793,0.783,0.785,0.836,0.806,0.803,(6.0688)+(0.0096)Thr+(-0.0768)Cit+(-0.0129)Tyr+(0.1406)Ile+(-0.0553)Leu+(-0.1516)Trp;0.833,0.859,0.785,0.754,0.791,0.823,0.824,0.798,(7.3101)+(-0.0035)Asn+(-0.0997)His+(-0.0007)Pro+(0.0234)Orn+(0.0599)Ile+(-0.1199)Trp;0.833,0.859,0.782,0.790,0.790,0.831,0.713,0.781,(3.7162)+(0.0350)Ser+(0.0098)Thr+(0.0112)Pro+(-0.2241)Met+(0.0116)Orn+(-0.1409)Trp;0.833,0.861,0.797,0.802,0.797,0.838,0.755,0.798,(4.4963)+(0.0440)Ser+(-0.0630)Asn+(0.0128)Pro+(0.0001)Val+(-0.1428)Met+(-0.1301)Trp;0.833,0.859,0.732,0.695,0.733,0.821,0.764,0.753,(-0.8377)+(0.0436)Ser+(0.0068)Gln+(-0.1827)His+(-0.0323)Arg+(0.0379)Ile+(0.0780)Phe;0.833,0.857,0.801,0.795,0.815,0.837,0.758,0.801,(8.4578)+(0.0010)Gly+(-0.0961)His+(0.0304)Thr+(0.0093)Val+(-0.1261)Met+(-0.1099)Trp;0.833,0.865,0.791,0.776,0.805,0.823,0.774,0.795,(5.3368)+(0.0074)Gly+(-0.1017)His+(-0.0656)Cit+(0.0038)Val+(0.1190)Phe+(-0.1287)Trp;0.833,0.869,0.777,0.778,0.785,0.793,0.743,0.775,(0.8189)+(0.0375)Ser+(-0.0258)Arg+(0.0043)Pro+(-0.0070)Lys+(0.0892)Phe+(-0.1705)Trp;0.833,0.860,0.778,0.762,0.727,0.843,0.882,0.804,(4.4924)+(-0.0924)His+(-0.0071)Ala+(-0.0174)Arg+(-0.0417)Val+(0.1434)Ile+(0.0788)Phe;0.833,0.863,0.769,0.763,0.756,0.831,0.772,0.780,(2.9539)+(0.0368)Ser+(-0.0329)Arg+(-0.0010)Pro+(0.1671)Ile+(-0.0729)Leu+(-0.1440)Trp;0.833,0.857,0.746,0.717,0.710,0.853,0.819,0.775,(3.5841)+(0.0470)Ser+(-0.1176)Asn+(-0.0860

)His+(0.0005)Pro+(-0.0374)Val+(0.1443)Ile;0.833,0.869,0.792,0.785,0.794,0.785,0.814,0.795,(1.1785)+(0.0453)Ser+(-0.0086)Gly+(0.0065)Orn+(-0.0138)Lys+(0.0778)Phe+(-0.1632)Trp;0.833,0.863,0.829,0.813,0.834,0.851,0.845,0.836,(5.0116)+(0.0117)Gln+(-0.1233)His+(0.0297)Tyr+(-0.1345)Met+(0.0273)Leu+(-0.1168)Trp;0.833,0.862,0.758,0.742,0.726,0.828,0.819,0.779,(2.9944)+(0.0292)Ser+(-0.0338)Val+(-0.0098)Lys+(0.1621)Ile+(-0.0155)Leu+(-0.1356)Trp;0.833,0.860,0.772,0.755,0.729,0.838,0.860,0.795,(3.8035)+(-0.1195)His+(0.0077)Thr+(-0.0082)Ala+(0.1193)Ile+(-0.0567)Leu+(0.0750)Phe;0.833,0.859,0.785,0.766,0.800,0.851,0.758,0.794,(5.6097)+(0.0434)Ser+(-0.0957)His+(-0.0025)Ala+(-0.0479)Cit+(0.0155)Val+(-0.1147)Trp;0.833,0.853,0.744,0.702,0.724,0.846,0.824,0.774,(2.5372)+(0.0476)Ser+(-0.0040)Gly+(-0.1405)His+(-0.0010)Thr+(-0.0074)Ala+(0.0704)Ile;0.833,0.869,0.772,0.
778,0.766,0.784,0.763,0.773,(0.6753)+(0.0353)Ser+(-0.0368)Tyr+(-0.0113)Lys+(0.0050)Leu+(0.1005)Phe+(-0.1607)Trp;0.833,0.865,0.742,0.701,0.746,0.840,0.776,0.766,(2.1353)+(0.0525)Ser+(-0.1247)His+(0.0045)Pro+(-0.2274)Met+(-0.0018)Lys+(0.0787)Ile;0.833,0.865,0.808,0.789,0.799,0.830,0.859,0.819,(6.3014)+(-0.1028)His+(-0.0032)Ala+(-0.0160)Val+(0.0382)Leu+(0.0996)Phe+(-0.1181)Trp;0.833,0.862,0.775,0.748,0.788,0.844,0.770,0.788,(5.1809)+(0.0445)Ser+(-0.1000)His+(-0.0027)Ala+(-0.0441)Cit+(0.0353)Leu+(-0.1183)Trp;0.833,0.861,0.758,0.742,0.725,0.826,0.822,0.779,(3.0160)+(0.0298)Ser+(-0.0003)Thr+(-0.0381)Val+(-0.0108)Lys+(0.1510)Ile+(-0.1366)Trp;0.833,0.860,0.789,0.790,0.799,0.840,0.731,0.790,(3.5958)+(0.0372)Ser+(0.0107)Thr+(0.0112)Pro+(0.0218)Tyr+(-0.2518)Met+(-0.1467)Trp;0.833,0.859,0.810,0.797,0.807,0.841,0.830,0.819,(5.5638)+(0.0091)Gln+(-0.1262)His+(-0.0032)Ala+(0.0203)Orn+(0.0245)Leu+(-0.1153)Trp;0.833,0.859,0.756,0.722,0.748,0.843,0.799,0.778,(1.7900)+(0.0408)Ser+(-0.1042)Asn+(0.0071)Gln+(-0.1513)His+(0.0054)Orn+(0.0549)Il

e;0.833,0.857,0.817,0.808,0.841,0.823,0.789,0.815,(5.7820)+(-0.0634)Asn+(-0.1211)Cit+(0.0023)Arg+(0.0489)Orn+(0.0799)Phe+(-0.1661)Trp;0.833,0.867,0.834,0.825,0.842,0.841,0.839,0.837,(6.5370)+(-0.0792)His+(-0.0016)Ala+(-0.0476)Cit+(-0.1040)Met+(0.1386)Phe+(-0.1154)Trp;0.833,0.872,0.752,0.743,0.725,0.815,0.787,0.767,(-4.4160)+(0.0470)Ser+(-0.0219)Tyr+(-0.3854)Met+(0.1854)Ile+(-0.0972)Leu+(0.1350)Phe;0.833,0.861,0.773,0.748,0.784,0.836,0.768,0.784,(5.2520)+(0.0474)Ser+(-0.0439)Asn+(-0.1044)His+(-0.0048)Arg+(0.0307)Leu+(-0.1085)Trp;0.833,0.860,0.785,0.771,0.795,0.842,0.760,0.792,(5.7871)+(0.0449)Ser+(-0.0353)Asn+(-0.0987)His+(-0.0066)Arg+(0.0115)Val+(-0.1052)Trp;0.833,0.858,0.812,0.812,0.826,0.852,0.752,0.810,(5.4711)+(0.0428)Ser+(-0.0583)Asn+(-0.0675)Cit+(0.0078)Val+(-0.0734)Met+(-0.1403)Trp;0.833,0.857,0.768,0.744,0.788,0.808,0.760,0.775,(3.6438)+(0.0115)Asn+(-0.1506)His+(0.0431)Thr+(-0.3284)Met+(-0.0012)Lys+(0.1441)Phe;0.833,0.852,0.753,0.721,0.746,0.826,0.798,0.773,(0.4703)+(0.0476)Ser+(-0.0047)Gly+(0.0056)Gln+(-0.1716)His+(-0.0147)Lys+(0.0981)Phe;0.833,0.859,0.801,0.801,0.812,0.837,0.750,0.800,(8.8674)+(-0.0802)His+(0.0327)Thr+(-0.0106)Arg+(0.0093)Pro+(-0.1398)Met+(-0.1040)Trp;0.833,0.862,0.775,0.755,0.722,0.841,0.890,0.802,(4.2221)+(-0.0975)His+(-0.0072)Ala+(-0.0378)Val+(-0.0044)Lys+(0.1358)Ile+(0.0715)Phe;0.833,0.859,0.796,0.779,0.758,0.857,0.874,0.817,(6.0632)+(-0.0638)His+(-0.0040)Ala+(-0.0447)Val+(-0.2224)Met+(0.0124)Lys+(0.1754)Ile;0.833,0.859,0.816,0.814,0.839,0.810,0.779,0.811,(5.8225)+(-0.0932)Asn+(0.0268)Thr+(-0.0905)Cit+(-0.0055)Arg+(0.0977)Phe+(-0.1747)Trp;0.833,0.858,0.716,0.664,0.723,0.821,0.765,0.743,(0.7695)+(0.0519)Ser+(-0.1502)His+(-0.0481)Cit+(-0.0210)Lys+(0.0536)Ile+(0.0868)Phe;0.833,0.857,0.817,0.803,0.814,0.844,0.842,0.826,(5.4107)+(0.0101)Gln+(-0.1292)His+(-0.0034)Ala+(0.0157)Tyr+(0.0268)Leu+(-0.1206)Trp;0.833,0.863,0.802,0.789,0.800,0.838,0.813,0.810,(0.4116)+(0.0046)Gly+(0.

0117)Gln+(-0.1615)His+(-0.2573)Met+(0.0076)Leu+(0.1273)Phe;0.833,0.862,0.801,0.785,0.805,0.845,0.804,0.810,(2.6953)+(0.0456)Ser+(0.0435)Tyr+(-0.0320)Val+(-0.2734)Met+(0.0732)Leu+(-0.1427)Trp;0.833,0.861,0.774,0.755,0.792,0.811,0.763,0.780,(3.7685)+(-0.1418)His+(0.0436)Thr+(0.0001)Ala+(-0.0065)Val+(-0.3191)Met+(0.1536)Phe;0.833,0.859,0.807,0.802,0.824,0.861,0.749,0.809,(4.8539)+(0.0265)Ser+(0.0011)Gln+(-0.0050)Ala+(-0.1167)Cit+(0.0542)Orn+(-0.1540)Trp;0.833,0.858,0.813,0.793,0.819,0.852,0.828,0.823,(6.9450)+(-0.0245)Asn+(-0.0081)Ala+(-0.1101)Cit+(0.0460)Orn+(0.0655)Ile+(-0.1554)Trp;0.833,0.861,0.805,0.781,0.797,0.844,0.855,0.819,(7.9084)+(0.0154)Asn+(-0.0702)His+(-0.0059)Ala+(-0.0509)Cit+(0.0820)Ile+(-0.1245)Trp;0.833,0.860,0.765,0.738,0.787,0.805,0.764,0.774,(3.5717)+(-0.1468)His+(0.0423)Thr+(0.0044)Pro+(-0.3299)Met+(-0.0008)Lys+(0.1399)Phe;0.833,0.859,0.810,0.799,0.800,0.844,0.836,0.820,(6.7436)+(-0.0334)Asn+(-0.0683)Cit+(0.0033)Lys+(0.1425)Ile+(-0.0593)Leu+(-0.1420)Trp;0.833,0.856,0.799,0.788,0.832,0.820,0.744,0.796,(4.5864)+(0.0039)Gly+(-0.1372)Cit+(0.0527)Orn+(-0.0116)Lys+(0.0884)Phe+(-0.1695)Trp;0.833,0.855,0.714,0.675,0.689,0.814,0.799,0.744,(0.2473)+(0.0377)Ser+(0.0009)Gln+(-0.1461)His+(-0.0293)Val+(0.1007)Ile+(0.0738)Phe;0.833,0.861,0.792,0.787,0.774,0.801,0.835,0.799,(3.0556)+(0.0006)Thr+(-0.0055)Pro+(0.1455)Ile+(-0.0748)Leu+(0.0651)Phe+(-0.1583)Trp;0.833,0.864,0.821,0.812,0.818,0.831,0.843,0.826,(6.5089)+(-0.0065)Asn+(-0.0992)His+(-0.0027)Ala+(-0.0035)Arg+(0.1100)Phe+(-0.1120)Trp;0.833,0.864,0.841,0.851,0.841,0.803,0.839,0.834,(1.9506)+(-0.0430)Asn+(0.0073)Gln+(0.0066)Pro+(-0.2340)Met+(0.1078)Phe+(-0.1468)Trp;0.833,0.862,0.759,0.769,0.748,0.761,0.755,0.758,(0.3919)+(0.0322)Ser+(-0.0031)Thr+(0.0050)Pro+(-0.0444)Tyr+(0.0940)Phe+(-0.1671)Trp;0.833,0.856,0.802,0.782,0.824,0.831,0.784,0.806,(6.7827)+(-0.0666)Asn+(0.0139)Thr+(-0.1081)Cit+(0.0371)Orn+(0.0483)Ile+(-0.1707)Trp;0.833,0.866,0.795,0.7

82,0.798,0.807,0.816,0.801,(5.8003)+(-0.1126)His+(-0.0237)Tyr+(0.0234)Orn+(0.0051)Lys+(0.1015)Phe+(-0.1117)Trp;0.833,0.862,0.815,0.815,0.773,0.856,0.872,0.829,(5.5843)+(-0.0856)Asn+(0.0062)Gln+(-0.0170)Arg+(-0.0424)Val+(0.1540)Ile+(-0.1176)Trp;0.833,0.860,0.832,0.820,0.832,0.845,0.853,0.838,(4.8289)+(-0.0767)Asn+(0.0081)Gln+(-0.0872)Cit+(-0.0005)Arg+(0.0611)Ile+(-0.1704)Trp;0.833,0.858,0.783,0.752,0.790,0.821,0.824,0.797,(7.2207)+(-0.1014)His+(-0.0008)Pro+(0.0227)Orn+(0.0009)Lys+(0.0598)Ile+(-0.1209)Trp;0.833,0.871,0.774,0.770,0.779,0.782,0.769,0.775,(0.5610)+(0.0343)Ser+(0.0019)Orn+(-0.0139)Lys+(0.0055)Leu+(0.0795)Phe+(-0.1701)Trp;0.833,0.865,0.742,0.695,0.750,0.842,0.776,0.766,(1.8486)+(0.0534)Ser+(-0.1277)His+(0.0038)Pro+(0.0121)Tyr+(-0.2520)Met+(0.0784)Ile;0.833,0.859,0.781,0.759,0.789,0.847,0.778,0.793,(5.1686)+(0.0409)Ser+(-0.1116)His+(-0.0028)Ala+(0.0168)Tyr+(0.0125)Val+(-0.1136)Trp;0.833,0.858,0.792,0.782,0.795,0.834,0.781,0.798,(7.9200)+(-0.0953)His+(0.0154)Thr+(-0.0042)Ala+(0.0082)Pro+(0.0274)Orn+(-0.1076)Trp;0.833,0.857,0.751,0.744,0.717,0.792,0.807,0.765,(3.3782)+(0.0028)Gly+(-0.1165)His+(-0.0549)Tyr+(0.1184)Ile+(-0.0598)Leu+(0.1042)Phe;0.833,0.857,0.773,0.757,0.795,0.811,0.743,0.776,(4.2431)+(-0.1379)His+(0.0484)Thr+(-0.0160)Arg+(-0.0071)Val+(-0.3143)Met+(0.1557)Phe;0.833,0.856,0.818,0.825,0.816,0.849,0.782,0.818,(6.4456)+(0.0099)Gln+(-0.1135)His+(0.0202)Thr+(-0.0009)Ala+(-0.0222)Arg+(-0.1063)Trp;0.833,0.866,0.773,0.786,0.761,0.778,0.761,0.772,(0.7306)+(0.0301)Ser+(-0.0410)Tyr+(-0.0068)Val+(0.0054)Orn+(0.1045)Phe+(-0.1583)Trp;0.833,0.865,0.782,0.756,0.777,0.851,0.810,0.799,(3.3220)+(0.0090)Gln+(-0.1481)His+(0.0262)Thr+(0.0005)Pro+(-0.2726)Met+(0.0698)Ile;0.833,0.860,0.799,0.794,0.759,0.841,0.868,0.815,(6.6486)+(-0.0781)Asn+(-0.0382)Val+(0.0057)Lys+(0.1647)Ile+(-0.0170)Leu+(-0.1173)Trp;0.833,0.858,0.795,0.787,0.826,0.849,0.714,0.794,(5.2276)+(0.0301)Ser+(-0.1126)Cit+(-0.0056)Arg+(0.0551)

Orn+(-0.0078)Lys+(-0.1541)Trp;0.833,0.865,0.785,0.766,0.801,0.819,0.781,0.792,(5.2764)+(0.0076)Gly+(-0.1041)His+(-0.0656)Cit+(0.0144)Leu+(0.1121)Phe+(-0.1329)Trp;0.833,0.859,0.773,0.747,0.789,0.814,0.777,0.782,(3.6435)+(-0.1417)His+(0.0412)Thr+(-0.0028)Ala+(0.0064)Pro+(-0.3198)Met+(0.1387)Phe;0.833,0.859,0.785,0.754,0.791,0.821,0.826,0.798,(7.2742)+(-0.0055)Asn+(-0.1002)His+(0.0226)Orn+(0.0013)Lys+(0.0584)Ile+(-0.1208)Trp;0.833,0.857,0.749,0.723,0.709,0.856,0.822,0.778,(3.0625)+(0.0401)Ser+(-0.0988)His+(-0.0065)Ala+(-0.0215)Arg+(-0.0318)Val+(0.1466)Ile;0.833,0.863,0.826,0.823,0.841,0.873,0.770,0.827,(5.5817)+(0.0436)Ser+(-0.0617)Asn+(-0.0632)Cit+(0.0377)Tyr+(-0.1143)Met+(-0.1400)Trp;0.833,0.860,0.778,0.752,0.784,0.830,0.798,0.791,(6.7920)+(0.0064)Gly+(-0.0819)His+(-0.0593)Cit+(0.0043)Arg+(0.0746)Ile+(-0.1294)Trp;0.833,0.860,0.752,0.733,0.721,0.823,0.815,0.773,(3.4211)+(0.0325)Ser+(-0.0020)Gln+(-0.0388)Val+(-0.0097)Lys+(0.1539)Ile+(-0.1340)Trp;0.833,0.857,0.826,0.828,0.820,0.853,0.817,0.829,(6.1773)+(-0.0494)Asn+(0.0101)Gln+(-0.1036)His+(-0.0011)Ala+(0.0273)Orn+(-0.0980)Trp;0.833,0.865,0.778,0.752,0.787,0.845,0.779,0.791,(4.7516)+(0.0480)Ser+(-0.0973)His+(-0.0148)Val+(-0.1279)Met+(0.0597)Leu+(-0.1004)Trp;0.833,0.863,0.774,0.755,0.790,0.838,0.742,0.781,(5.4134)+(0.0393)Ser+(-0.1082)His+(-0.0134)Arg+(0.0091)Val+(0.0252)Orn+(-0.1072)Trp;0.833,0.860,0.808,0.813,0.831,0.866,0.703,0.803,(5.8162)+(0.0309)Ser+(0.0206)Thr+(-0.0621)Cit+(-0.0058)Arg+(-0.1579)Met+(-0.1396)Trp;0.833,0.859,0.793,0.781,0.806,0.831,0.773,0.798,(8.2474)+(-0.0409)Asn+(-0.0926)His+(0.0189)Thr+(0.0045)Pro+(0.0268)Orn+(-0.1076)Trp;0.833,0.858,0.767,0.736,0.778,0.826,0.787,0.782,(4.9195)+(0.0486)Ser+(-0.0041)Gly+(-0.1112)His+(-0.0036)Lys+(0.0321)Leu+(-0.1132)Trp;0.833,0.860,0.789,0.789,0.735,0.828,0.871,0.806,(4.4001)+(-0.1259)Asn+(-0.0590)Cit+(-0.0522)Tyr+(-0.0576)Val+(0.1697)Ile+(0.1051)Phe;0.833,0.866,0.800,0.804,0.798,0.817,0.780,0.80

0,(1.3181)+(0.0324)Ser+(0.0075)Thr+(-0.0063)Ala+(-0.0287)Arg+(0.0983)Phe+(-0.1674)Trp;0.833,0.865,0.801,0.782,0.808,0.806,0.832,0.807,(6.2001)+(-0.1071)His+(-0.0051)Arg+(0.0036)Pro+(0.0079)Leu+(0.0939)Phe+(-0.1217)Trp;0.833,0.860,0.800,0.785,0.803,0.825,0.817,0.808,(5.3148)+(0.0088)Gln+(-0.1294)His+(0.0029)Pro+(0.0161)Orn+(0.0210)Leu+(-0.1182)Trp;0.833,0.858,0.799,0.775,0.789,0.838,0.855,0.814,(7.5820)+(0.0051)Asn+(-0.0902)His+(-0.0051)Ala+(0.0036)Lys+(0.0728)Ile+(-0.1192)Trp;0.833,0.867,0.791,0.784,0.792,0.786,0.814,0.794,(1.2010)+(0.0456)Ser+(-0.0084)Gly+(-0.0002)Gln+(-0.0128)Lys+(0.0811)Phe+(-0.1637)Trp;0.833,0.861,0.808,0.811,0.825,0.858,0.732,0.807,(6.2865)+(0.0369)Ser+(-0.1054)Asn+(0.0142)Thr+(-0.0724)Cit+(0.0025)Lys+(-0.1442)Trp;0.833,0.860,0.787,0.775,0.782,0.839,0.795,0.798,(5.5113)+(0.0031)Gly+(0.0057)Thr+(-0.0834)Cit+(0.1433)Ile+(-0.0566)Leu+(-0.1565)Trp;0.833,0.860,0.826,0.831,0.833,0.861,0.775,0.825,(4.3915)+(0.0368)Ser+(-0.1083)Asn+(0.0059)Gln+(-0.0787)Cit+(0.0055)Val+(-0.1485)Trp;0.833,0.864,0.791,0.781,0.797,0.812,0.793,0.796,(5.3649)+(0.0052)Gly+(-0.1150)His+(-0.0119)Arg+(0.0074)Lys+(0.1072)Phe+(-0.1185)Trp;0.833,0.864,0.848,0.852,0.856,0.826,0.833,0.842,(1.8472)+(0.0081)Gln+(-0.0881)Cit+(0.0027)Arg+(-0.2133)Met+(0.1278)Phe+(-0.1575)Trp;0.833,0.860,0.775,0.760,0.767,0.830,0.789,0.787,(3.0804)+(0.0429)Ser+(-0.1076)Asn+(0.0040)Thr+(-0.0072)Lys+(0.0610)Ile+(-0.1487)Trp;0.833,0.858,0.824,0.824,0.820,0.848,0.817,0.827,(5.9878)+(-0.0600)Asn+(0

.0099)Gln+(-0.1077)His+(0.0234)Orn+(0.0065)Lys+(-0.1034)Trp;0.833,0.862,0.822,0.819,0.819,0.842,0.822,0.825,(5.3696)+(0.0111)Gln+(-0.1128)His+(0.0075)Pro+(0.0084)Val+(-0.0969)Met+(-0.1068)Trp;0.833,0.861,0.816,0.815,0.813,0.845,0.805,0.820,(5.6183)+(0.0096)Gln+(-0.1048)His+(0.0083)Pro+(-0.0983)Met+(0.0227)Orn+(-0.0991)Trp;0.833,0.860,0.806,0.800,0.802,0.837,0.813,0.813,(0.6524)+(-0.0200)Asn+(0.0047)Gly+(0.0120)

Gln+(-0.1563)His+(-0.2326)Met+(0.1325)Phe;0.833,0.857,0.744,0.704,0.730,0.843,0.804,0.770,(3.0625)+(0.0495)Ser+(-0.0714)Asn+(-0.0035)Gly+(-0.1189)His+(0.1080)Ile+(-0.0365)Leu;0.833,0.861,0.766,0.738,0.788,0.806,0.764,0.774,(3.7904)+(-0.1529)His+(0.0450)Thr+(-0.3297)Met+(-0.0025)Lys+(0.0099)Leu+(0.1348)Phe;0.833,0.860,0.808,0.786,0.800,0.847,0.857,0.823,(8.0478)+(-0.0689)His+(-0.0057)Ala+(-0.0492)Cit+(0.0025)Lys+(0.0790)Ile+(-0.1240)Trp;0.833,0.860,0.759,0.747,0.721,0.823,0.822,0.778,(2.8809)+(0.0274)Ser+(-0.0036)Thr+(-0.0088)Tyr+(-0.0388)Val+(0.1467)Ile+(-0.1416)Trp;0.833,0.860,0.760,0.748,0.722,0.823,0.826,0.780,(2.6899)+(0.0283)Ser+(-0.0048)Thr+(-0.0013)Pro+(-0.0394)Val+(0.1485)Ile+(-0.1443)Trp;0.833,0.867,0.789,0.794,0.776,0.788,0.805,0.791,(1.2474)+(0.0485)Ser+(-0.0095)Gly+(-0.0440)Tyr+(-0.0102)Lys+(0.1042)Phe+(-0.1515)Trp;0.833,0.863,0.796,0.763,0.812,0.842,0.813,0.808,(7.6956)+(-0.0724)His+(-0.0698)Cit+(-0.0629)Met+(0.0433)Orn+(0.0621)Ile+(-0.1246)Trp;0.833,0.863,0.845,0.847,0.856,0.822,0.833,0.840,(1.8347)+(0.0082)Gln+(-0.0878)Cit+(-0.2141)Met+(0.0061)Leu+(0.1230)Phe+(-0.1612)Trp;0.833,0.861,0.803,0.802,0.829,0.856,0.714,0.800,(5.0989)+(0.0332)Ser+(0.0171)Thr+(-0.0735)Cit+(0.0075)Val+(-0.1709)Met+(-0.1498)Trp;0.833,0.860,0.796,0.779,0.786,0.826,0.841,0.808,(7.4529)+(0.0031)Asn+(-0.0723)His+(-0.0079)Arg+(0.1213)Ile+(-0.0405)Leu+(-0.1133)Trp;0.833,0.864,0.779,0.791,0.778,0.788,0.739,0.774,(0.7400)+(0.0361)Ser+(0.0005)Gln+(-0.0258)Arg+(-0.0353)Tyr+(0.1063)Phe+(-0.1632)Trp;0.833,0.862,0.757,0.744,0.722,0.819,0.817,0.776,(2.6867)+(0.0254)Ser+(-0.0338)Val+(0.0005)Orn+(0.1633)Ile+(-0.0218)Leu+(-0.1442)Trp;0.833,0.856,0.740,0.713,0.748,0.816,0.739,0.754,(1.6560)+(0.0552)Ser+(-0.1030)Asn+(-0.1518)His+(0.0116)Thr+(-0.0202)Arg+(0.1128)Phe;0.833,0.870,0.771,0.766,0.777,0.781,0.766,0.772,(0.7122)+(0.0355)Ser+(-0.0007)Gln+(-0.0134)Lys+(0.0058)Leu+(0.0809)Phe+(-0.1694)Trp;0.833,0.861,0.777,0.759,0.755,0.837

,0.827,0.794,(2.3756)+(0.0357)Ser+(-0.0086)Ala+(0.0044)Orn+(-0.0131)Lys+(0.0805)Ile+(-0.1521)Trp;0.833,0.860,0.780,0.772,0.806,0.836,0.706,0.780,(4.6109)+(0.0289)Ser+(-0.1160)Cit+(0.0077)Pro+(-0.0160)Tyr+(0.0466)Orn+(-0.1657)Trp;0.833,0.860,0.791,0.797,0.782,0.844,0.753,0.794,(3.6579)+(0.0383)Ser+(-0.0045)Ala+(0.0147)Pro+(-0.1821)Met+(0.0175)Orn+(-0.1313)Trp;0.833,0.867,0.805,0.788,0.796,0.838,0.847,0.817,(7.5290)+(-0.0604)His+(-0.0007)Arg+(-0.0961)Met+(0.1292)Ile+(-0.0417)Leu+(-0.1047)Trp;0.833,0.863,0.762,0.755,0.747,0.762,0.812,0.769,(0.6755)+(0.0435)Ser+(-0.0091)Gly+(-0.0526)Tyr+(0.0425)Ile+(0.0744)Phe+(-0.1722)Trp;0.833,0.860,0.795,0.788,0.756,0.843,0.863,0.813,(6.5746)+(-0.0754)Asn+(0.0020)Gly+(0.0004)Tyr+(-0.0425)Val+(0.1553)Ile+(-0.1146)Trp;0.833,0.859,0.767,0.755,0.745,0.819,0.808,0.782,(2.1690)+(0.0346)Ser+(-0.0003)Gln+(-0.0128)Thr+(0.1494)Ile+(-0.0658)Leu+(-0.1459)Trp;0.833,0.865,0.791,0.779,0.802,0.823,0.779,0.796,(5.2543)+(0.0070)Gly+(-0.1012)His+(-0.0622)Cit+(0.0029)Lys+(0.1218)Phe+(-0.1265)Trp;0.833,0.855,0.714,0.672,0.706,0.816,0.770,0.741,(-0.1084)+(0.0444)Ser+(-0.1419)His+(-0.0551)Cit+(0.1125)Ile+(-0.0549)Leu+(0.0897)Phe;0.833,0.865,0.764,0.733,0.781,0.833,0.758,0.776,(4.9696)+(0.0413)Ser+(-0.1156)His+(-0.0125)Arg+(0.0226)Orn+(0.0274)Leu+(-0.1140)Trp;0.833,0.861,0.775,0.757,0.735,0.839,0.863,0.798,(3.8702)+(-0.1146)His+(-0.0080)Ala+(0.0137)Orn+(0.1210)Ile+(-0.0595)Leu+(0.0722)Phe;0.833,0.861,0.777,0.759,0.755,0.837,0.829,0.795,(2.4306)+(0.0355)Ser+(0.0010)Thr+(-0.0086)Ala+(-0.0129)Lys+(0.0818)Ile+(-0.1528)Trp;0.833,0.860,0.795,0.786,0.802,0.841,0.770,0.800,(4.5874)+(0.0346)Ser+(-0.0078)Ala+(-0.0885)Cit+(0.0151)Pro+(0.0065)Val+(-0.1590)Trp;0.833,0.862,0.779,0.761,0.788,0.845,0.759,0.788,(5.3709)+(0.0340)Ser+(-0.1044)His+(0.0087)Tyr+(0.0252)Orn+(0.0019)Lys+(-0.1043)Trp;0.833,0.859,0.803,0.797,0.818,0.836,0.764,0.804,(8.6508)+(-0.0049)Asn+(-0.0939)His+(0.0314)Thr+(0.0088)Val+(-0.1230)

Met+(-0.1104)Trp;0.833,0.859,0.823,0.816,0.818,0.840,0.837,0.828,(5.5
972)+(-0.0462)Asn+(0.0112)Gln+(-0.1203)His+(0.0029)Lys+(0.0223)Leu+(-
0.1131)Trp;0.833,0.865,0.782,0.756,0.776,0.852,0.810,0.799,(3.3500)+(
0.0090)Gln+(-0.1480)His+(0.0263)Thr+(-0.0009)Tyr+(-0.2704)Met+(0.0706
)Ile;0.833,0.864,0.778,0.778,0.756,0.804,0.806,0.786,(0.9837)+(0.0326
)Ser+(-0.0014)Gln+(-0.0093)Ala+(0.0096)Pro+(0.0832)Phe+(-0.1663)Trp;0
.833,0.861,0.791,0.779,0.764,0.835,0.848,0.806,(6.3223)+(-0.0636)Cit+
(-0.0042)Tyr+(-0.0290)Val+(0.1658)Ile+(-0.0231)Leu+(-0.1363)Trp;0.833
,0.859,0.796,0.792,0.800,0.846,0.763,0.800,(5.0027)+(0.0343)Ser+(-0.0
068)Ala+(-0.0813)Cit+(0.0162)Pro+(-0.0015)Lys+(-0.1486)Trp;0.833,0.85
5,0.805,0.792,0.804,0.829,0.822,0.812,(5.3032)+(0.0097)Gln+(-0.1279)H
is+(0.0038)Pro+(-0.0004)Lys+(0.0232)Leu+(-0.1181)Trp;0.833,0.855,0.80
8,0.803,0.808,0.830,0.810,0.812,(5.3273)+(0.0008)Gly+(0.0097)Gln+(-0.
1240)His+(0.0047)Pro+(0.0083)Val+(-0.1137)Trp;0.833,0.858,0.797,0.793
,0.801,0.848,0.763,0.801,(5.0079)+(0.0346)Ser+(-0.0067)Ala+(-0.0781)C
it+(-0.0046)Arg+(0.0162)Pro+(-0.1491)Trp;0.833,0.858,0.823,0.827,0.81
9,0.860,0.794,0.825,(6.4336)+(0.0085)Gln+(-0.1000)His+(0.0172)Thr+(-0
.0016)Ala+(-0.0423)Cit+(-0.1107)Trp;0.833,0.865,0.815,0.802,0.807,0.8
51,0.842,0.826,(6.6570)+(-0.0625)Cit+(0.0044)Arg+(-0.1102)Met+(0.1491
)Ile+(-0.0568)Leu+(-0.1301)Trp;0.833,0.860,0.801,0.786,0.766,0.864,0.
865,0.820,(3.8996)+(0.0086)Gln+(-0.0878)His+(-0.0353)Val+(-0.2423)Met
+(0.1599)Ile+(-0.0044)Leu;0.833,0.863,0.817,0.798,0.834,0.806,0.838,0
.819,(4.3192)+(-0.0802)Cit+(0.0036)Pro+(-0.1962)Met+(0.0538)Ile+(0.10
12)Phe+(-0.1639)Trp;0.833,0.860,0.758,0.748,0.721,0.820,0.815,0.776,(
2.9929)+(0.0252)Ser+(-0.0123)Tyr+(-0.0325)Val+(0.1637)Ile+(-0.0225)Le
u+(-0.1390)Trp;0.833,0.858,0.761,0.727,0.775,0.829,0.773,0.776,(4.673
6)+(0.0436)Ser+(-0.1182)His+(0.0131)Tyr+(-0.0043)Lys+(0.0326)Leu+(-0.
1180)Trp;0.833,0.857,0.770,0.747,0.797,0.811,0.745,0.775,(4.1829)+(-0

.1397)His+(0.0453)Thr+(-0.0398)Cit+(-0.3163)Met+(-0.0024)Lys+(0.1456)Phe;0.833,0.864,0.757,0.721,0.773,0.830,0.769,0.773,(4.6075)+(0.0396)Ser+(-0.1212)His+(0.0046)Tyr+(0.0175)Orn+(0.0281)Leu+(-0.1180)Trp;0.833,0.863,0.769,0.763,0.756,0.829,0.770,0.779,(2.9292)+(0.0367)Ser+(-0.0338)Arg+(0.0007)Lys+(0.1660)Ile+(-0.0734)Leu+(-0.1448)Trp;0.833,0.866,0.782,0.785,0.793,0.798,0.737,0.778,(1.0639)+(0.0350)Ser+(0.0056)Thr+(-0.0267)Arg+(-0.0077)Lys+(0.0922)Phe+(-0.1713)Trp;0.833,0.865,0.818,0.807,0.818,0.846,0.828,0.825,(5.3038)+(0.0102)Gln+(-0.1198)His+(-0.0951)Met+(0.0194)Orn+(0.0250)Leu+(-0.1088)Trp;0.833,0.860,0.807,0.804,0.771,0.839,0.867,0.820,(5.7969)+(-0.0089)Ala+(0.0043)Pro+(-0.0053)Tyr+(0.1562)Ile+(-0.0653)Leu+(-0.1331)Trp;0.833,0.860,0.799,0.791,0.828,0.852,0.722,0.798,(4.8232)+(0.0278)Ser+(0.0015)Gln+(-0.1173)Cit+(0.0540)Orn+(-0.0099)Lys+(-0.1559)Trp;0.833,0.862,0.791,0.777,0.764,0.835,0.854,0.807,(6.4569)+(-0.0594)Cit+(-0.0069)Arg+(0.0023)Pro+(-0.0373)Val+(0.1496)Ile+(-0.1386)Trp;0.833,0.860,0.765,0.737,0.785,0.805,0.765,0.773,(3.5021)+(-0.1477)His+(0.0413)Thr+(0.0041)Pro+(-0.3285)Met+(0.0043)Orn+(0.1376)Phe;0.833,0.860,0.805,0.788,0.800,0.845,0.832,0.816,(6.2130)+(0.0167)Thr+(-0.0089)Ala+(-0.0856)Cit+(-0.0034)Arg+(0.0802)Ile+(-0.1699)Trp;0.833,0.860,0.810,0.804,0.795,0.835,0.839,0.818,(5.9047)+(-0.0112)Asn+(-0.1661)Met+(0.0102)Lys+(0.1547)Ile+(-0.0677)Leu+(-0.1304)Trp;0.833,0.857,0.771,0.747,0.790,0.811,0.765,0.778,(3.6732)+(0.0096)Asn+(-0.1491)His+(0.0425)Thr+(-0.0010)Ala+(-0.3232)Met+(0.1435)Phe;0.832,0.862,0.793,0.788,0.774,0.802,0.840,0.801,(3.1109)+(-0.0049)Pro+(-0.0058)Orn+(0.1469)Ile+(-0.0749)Leu+(0.0684)Phe+(-0.1583)Trp;0.832,0.859,0.766,0.731,0.778,0.826,0.788,0.781,(4.7373)+(0.0472)Ser+(-0.0037)Gly+(-0.1159)His+(0.0083)Tyr+(0.0295)Leu+(-0.1188)Trp;0.832,0.866,0.790,0.783,0.788,0.808,0.801,0.795,(5.2212)+(0.0042)Gly+(-0.1146)His+(-0.0167)Tyr+(0.0062)Lys+(0.1124)Phe+(-0.1141)Trp;0.832,0.

859,0.795,0.787,0.826,0.850,0.716,0.794,(5.1487)+(0.0297)Ser+(-0.0002)Thr+(-0.1162)Cit+(0.0551)Orn+(-0.0091)Lys+(-0.1539)Trp;0.832,0.866,0.816,0.798,0.829,0.808,0.841,0.819,(3.9117)+(-0.0877)Cit+(0.0127)Arg+(-0.2075)Met+(0.0581)Ile+(0.1032)Phe+(-0.1662)Trp;0.832,0.864,0.803,0.790,0.805,0.808,0.833,0.809,(6.2917)+(-0.0058)Asn+(-0.1060)His+(-0.0159)Tyr+(0.0103)Leu+(0.1025)Phe+(-0.1158)Trp;0.832,0.860,0.787,0.785,0.781,0.833,0.773,0.793,(2.9950)+(0.0426)Ser+(-0.0048)Ala+(0.0134)Pro+(-0.1998)Met+(0.0201)Leu+(-0.1396)Trp;0.832,0.857,0.744,0.721,0.741,0.820,0.757,0.760,(1.6639)+(0.0534)Ser+(-0.1281)Asn+(-0.1428)His+(0.0106)Thr+(-0.0085)Val+(0.1250)Phe;0.832,0.860,0.833,0.843,0.834,0.870,0.777,0.831,(4.7808)+(0.0356)Ser+(-0.1078)Asn+(0.0061)Gln+(-0.0717)Cit+(-0.0002)Arg+(-0.1379)Trp;0.832,0.859,0.799,0.795,0.799,0.833,0.789,0.804,(5.7812)+(0.0074)Gln+(-0.1182)His+(0.0095)Thr+(0.0046)Pro+(0.0187)Orn+(-0.1100)Trp;0.832,0.857,0.809,0.808,0.806,0.845,0.795,0.813,(6.0820)+(0.0075)Gln+(-0.1142)His+(0.0117)Thr+(-0.0022)Ala+(0.0230)Orn+(-0.1066)Trp;0.832,0.856,0.755,0.733,0.738,0.838,0.788,0.774,(0.4590)+(0.0418)Ser+(0.0049)Gln+(-0.1665)His+(-0.0039)Ala+(-0.0117)Lys+(0.1049)Phe;0.832,0.860,0.779,0.766,0.792,0.846,0.740,0.786,(5.7262)+(0.0355)Ser+(-0.1001)His+(-0.0169)Arg+(0.0301)Orn+(0.0060)Lys+(-0.1011)Trp;0.832,0.857,0.818,0.824,0.826,0.860,0.756,0.816,(5.8273)+(0.0407)Ser+(-0.0711)Asn+(-0.0607)Cit+(-0.0684)Met+(0.0074)Lys+(-0.1338)Trp;0.832,0.862,0.783,0.757,0.759,0.852,0.849,0.804,(5.7849)+(-0.0719)His+(-0.0459)Val+(-0.2409)Met+(0.0276)Orn+(0.0086)Lys+(0.1664)Ile;0.832,0.856,0.804,0.789,0.804,0.834,0.819,0.812,(5.1466)+(0.0016)Gly+(0.0096)Gln+(-0.1327)His+(0.0097)Tyr+(0.0250)Leu+(-0.1205)Trp;0.832,0.865,0.782,0.756,0.777,0.852,0.811,0.799,(3.3302)+(0.0091)Gln+(-0.1480)His+(0.0264)Thr+(-0.2722)Met+(-0.0012)Orn+(0.0709)Ile;0.832,0.859,0.828,0.831,0.823,0.856,0.813,0.831,(6.0369)+(-0.0391)Asn+(0.0104)Gln+(-0.1014

)His+(-0.0456)Met+(0.0274)Orn+(-0.0964)Trp;0.832,0.863,0.797,0.800,0.779,0.817,0.811,0.801,(0.8061)+(0.0305)Ser+(-0.0009)Thr+(-0.0061)Ala+(-0.0037)Val+(0.0913)Phe+(-0.1619)Trp;0.832,0.859,0.764,0.735,0.786,0.806,0.765,0.773,(3.6484)+(-0.1540)His+(0.0433)Thr+(-0.3305)Met+(0.0040)Orn+(0.0087)Leu+(0.1329)Phe;0.832,0.858,0.801,0.800,0.801,0.849,0.769,0.805,(4.4176)+(0.0309)Ser+(0.0021)Gln+(-0.0071)Ala+(-0.0852)Cit+(0.0158)Pro+(-0.1537)Trp;0.832,0.856,0.823,0.824,0.815,0.840,0.825,0.826,(5.8970)+(-0.0628)Asn+(0.0107)Gln+(-0.1073)His+(0.0071)Pro+(0.0081)Lys+(-0.1071)Trp;0.832,0.863,0.847,0.852,0.857,0.824,0.832,0.841,(1.8444)+(0.0082)Gln+(-0.0863)Cit+(-0.2130)Met+(0.0009)Lys+(0.1274)Phe+(-0.1577)Trp;0.832,0.860,0.806,0.805,0.826,0.852,0.734,0.804,(6.0168)+(0.0379)Ser+(-0.0998)Asn+(0.0131)Thr+(-0.0764)Cit+(0.0044)Val+(-0.1497)Trp;0.832,0.860,0.767,0.731,0.789,0.836,0.764,0.780,(4.8466)+(0.0448)Ser+(-0.1069)His+(-0.0456)Cit+(0.0153)Tyr+(0.0318)Leu+(-0.1291)Trp;0.832,0.858,0.804,0.799,0.788,0.825,0.836,0.812,(5.8963)+(-0.0610)Asn+(0.0091)Orn+(0.0038)Lys+(0.1353)Ile+(-0.0650)Leu+(-0.1350)Trp;0.832,0.857,0.773,0.757,0.746,0.826,0.836,0.791,(1.8553)+(0.0343)Ser+(-0.0063)Thr+(-0.0102)Ala+(0.0060)Pro+(0.0698)Ile+(-0.1600)Trp;0.832,0.861,0.817,0.813,0.838,0.812,0.785,0.812,(5.7434)+(-0.0966)Asn+(0.0257)Thr+(-0.0935)Cit+(0.0001)Leu+(0.0968)Phe+(-0.1746)Trp;0.832,0.861,0.822,0.812,0.851,0.822,0.790,0.819,(4.8174)+(-0.1106)Cit+(-0.1482)Met+(0.0460)Orn+(-0.0014)Lys+(0.1071)Phe+(-0.1571)Trp;0.832,0.857,0.718,0.678,0.693,0.818,0.802,0.748,(0.4344)+(0.0389)Ser+(-0.1428)His+(-0.0040)Pro+(-0.0299)Val+(0.1071)Ile+(0.0772)Phe;0.832,0.856,0.808,0.792,0.840,0.819,0.779,0.807,(5.2627)+(-0.1322)Cit+(0.0528)Orn+(-0.0121)Lys+(0.0055)Leu+(0.0811)Phe+(-0.1722)Trp;0.832,0.864,0.811,0.803,0.809,0.814,0.831,0.814,(6.3032)+(-0.0091)Asn+(-0.1014)His+(-0.0151)Tyr+(0.0007)Val+(0.1107)Phe+(-0.1107)Trp

;0.832,0.861,0.798,0.791,0.759,0.840,0.869,0.815,(6.8297)+(-0.0694)As
n+(0.0008)Pro+(-0.0019)Tyr+(-0.0423)Val+(0.1537)Ile+(-0.1149)Trp;0.83
2,0.860,0.807,0.794,0.773,0.867,0.869,0.826,(4.1143)+(-0.0305)Asn+(0.
0093)Gln+(-0.0840)His+(-0.0377)Val+(-0.2202)Met+(0.1571)Ile;0.832,0.8
60,0.798,0.791,0.759,0.841,0.867,0.815,(6.7476)+(-0.0665)Asn+(0.0001)
Pro+(-0.0380)Val+(0.1640)Ile+(-0.0142)Leu+(-0.1148)Trp;0.832,0.857,0.
772,0.759,0.722,0.871,0.837,0.797,(2.3989)+(0.0424)Ser+(-0.1946)Asn+(
0.0037)Gln+(-0.0592)Cit+(-0.0529)Val+(0.1702)Ile;0.832,0.860,0.789,0.
766,0.791,0.831,0.815,0.801,(6.8415)+(0.0054)Gly+(-0.0928)His+(-0.128
4)Met+(0.0094)Lys+(0.0729)Ile+(-0.1126)Trp;0.832,0.859,0.748,0.731,0.
714,0.819,0.816,0.770,(3.3321)+(0.0304)Ser+(-0.0027)Gln+(-0.0012)Pro+
(-0.0407)Val+(0.1530)Ile+(-0.1418)Trp;0.832,0.858,0.799,0.798,0.800,0
.857,0.757,0.803,(6.4097)+(0.0417)Ser+(-0.0378)Asn+(-0.0793)His+(0.00
15)Ala+(-0.0374)Met+(-0.0937)Trp;0.832,0.857,0.824,0.824,0.820,0.851,
0.812,0.827,(6.0650)+(-0.0524)Asn+(0.0008)Gly+(0.0101)Gln+(-0.1053)Hi
s+(0.0262)Orn+(-0.0987)Trp;0.832,0.860,0.818,0.814,0.791,0.852,0.860,
0.829,(6.6438)+(-0.0058)Ala+(-0.0059)Arg+(-0.1037)Met+(0.1653)Ile+(-0
.0644)Leu+(-0.1195)Trp;0.832,0.857,0.762,0.756,0.726,0.798,0.826,0.77
6,(3.8663)+(-0.1113)His+(-0.0026)Pro+(-0.0559)Tyr+(0.1257)Ile+(-0.063
4)Leu+(0.1052)Phe;0.832,0.859,0.786,0.765,0.802,0.810,0.792,0.792,(3.
8056)+(0.0061)Gly+(-0.1099)Cit+(-0.0137)Lys+(0.0625)Ile+(0.0827)Phe+(
-0.1807)Trp;0.832,0.864,0.816,0.813,0.817,0.794,0.843,0.816,(3.9227)+
(0.0097)Pro+(-0.0335)Val+(-0.2425)Met+(0.0539)Leu+(0.1187)Phe+(-0.139
2)Trp;0.832,0.866,0.787,0.791,0.794,0.797,0.754,0.784,(0.7780)+(0.036
5)Ser+(0.0005)Gln+(-0.0249)Arg+(-0.0065)Lys+(0.0920)Phe+(-0.1691)Trp;
0.832,0.861,0.797,0.777,0.788,0.847,0.831,0.811,(7.2841)+(0.0052)Gly+
(-0.0835)His+(-0.0038)Ala+(-0.0835)Met+(0.0818)Ile+(-0.1073)Trp;0.832
,0.858,0.778,0.756,0.797,0.839,0.748,0.785,(5.4080)+(0.0427)Ser+(-0.0

982)His+(-0.0460)Cit+(0.0135)Val+(0.0009)Lys+(-0.1179)Trp;0.832,0.858,0.827,0.831,0.819,0.846,0.822,0.829,(5.9578)+(-0.0339)Asn+(0.0115)Gln+(-0.0983)His+(0.0094)Pro+(-0.0713)Met+(-0.0983)Trp;0.832,0.856,0.743,0.706,0.735,0.851,0.779,0.768,(3.1744)+(0.0466)Ser+(-0.0722)Asn+(-0.1073)His+(-0.0457)Cit+(0.1164)Ile+(-0.0399)Leu;0.832,0.860,0.799,0.784,0.766,0.861,0.862,0.818,(3.9017)+(0.0085)Gln+(-0.0881)His+(0.0026)Pro+(-0.0368)Val+(-0.2497)Met+(0.1543)Ile;0.832,0.854,0.715,0.675,0.690,0.814,0.803,0.746,(0.3347)+(0.0410)Ser+(-0.1400)His+(-0.0048)Thr+(-0.0299)Val+(0.1037)Ile+(0.0755)Phe;0.832,0.856,0.766,0.735,0.771,0.829,0.791,0.781,(4.9551)+(0.0471)Ser+(-0.0041)Gly+(-0.1091)His+(-0.0138)Val+(0.0513)Leu+(-0.1129)Trp;0.832,0.868,0.784,0.788,0.793,0.795,0.745,0.780,(0.9128)+(0.0366)Ser+(-0.0256)Arg+(0.0081)Orn+(-0.0071)Lys+(0.0885)Phe+(-0.1677)Trp;0.832,0.857,0.747,0.718,0.710,0.853,0.820,0.775,(3.6053)+(0.0470)Ser+(-0.1158)Asn+(-0.0857)His+(-0.0371)Val+(-0.0008)Lys+(0.1450)Ile;0.832,0.856,0.768,0.746,0.795,0.808,0.744,0.773,(3.9576)+(0.0078)Asn+(-0.1425)His+(0.0442)Thr+(-0.0388)Cit+(-0.3265)Met+(0.1453)Phe;0.832,0.856,0.805,0.791,0.805,0.829,0.825,0.812,(5.2591)+(0.0097)Gln+(-0.1295)His+(0.0034)Pro+(0.0045)Tyr+(0.0229)Leu+(-0.1198)Trp;0.832,0.861,0.814,0.792,0.808,0.849,0.857,0.826,(8.2469)+(-0.0633)His+(-0.0050)Ala+(-0.0470)Cit+(-0.0378)Met+(0.0814)Ile+(-0.1182)Trp;0.832,0.860,0.825,0.817,0.821,0.850,0.839,0.832,(5.3408)+(0.0112)Gln+(-0.1184)His+(-0.0010)Ala+(-0.0840)Met+(0.0286)Leu+(-0.1084)Trp;0.832,0.862,0.829,0.816,0.834,0.847,0.842,0.835,(4.3481)+(0.0076)Gln+(-0.0784)Cit+(-0.1419)Met+(-0.0040)Lys+(0.0737)Ile+(-0.1596)Trp;0.832,0.862,0.788,0.771,0.784,0.828,0.812,0.799,(3.3572)+(0.0534)Ser+(-0.0952)Asn+(-0.0062)Gly+(-0.0134)Arg+(0.0585)Ile+(-0.1533)Trp;0.832,0.856,0.802,0.797,0.786,0.824,0.830,0.810,(5.8352)+(-0.0576)Asn+(0.0011)Gly+(0.0100)Orn+(0.1352)Ile+(-0.0629)Leu+(-0.1326)Trp;0.832,0.860,0.821,

0.810,0.850,0.819,0.791,0.817,(4.7395)+(-0.1098)Cit+(-0.1547)Met+(0.0445)Orn+(0.0023)Leu+(0.1054)Phe+(-0.1597)Trp;0.832,0.867,0.832,0.820,0.839,0.834,0.847,0.835,(6.2209)+(-0.0917)His+(-0.0011)Ala+(0.0105)Tyr+(-0.1400)Met+(0.1284)Phe+(-0.1084)Trp;0.832,0.866,0.824,0.807,0.837,0.825,0.840,0.827,(6.4393)+(-0.0848)His+(-0.0468)Cit+(-0.1209)Met+(0.0130)Leu+(0.1268)Phe+(-0.1231)Trp;0.832,0.863,0.788,0.798,0.771,0.778,0.804,0.788,(1.1722)+(0.0442)Ser+(-0.0092)Gly+(-0.0473)Tyr+(-0.0055)Val+(0.1050)Phe+(-0.1534)Trp;0.832,0.862,0.748,0.705,0.749,0.841,0.790,0.771,(2.2359)+(0.0551)Ser+(-0.0006)Asn+(-0.0027)Gly+(-0.1249)His+(-0.2162)Met+(0.0819)Ile;0.832,0.866,0.790,0.785,0.771,0.803,0.837,0.799,(1.0555)+(0.0408)Ser+(-0.0073)Gly+(-0.0093)Ala+(0.0098)Pro+(0.0780)Phe+(-0.1665)Trp;0.832,0.864,0.813,0.803,0.814,0.819,0.833,0.817,(6.3997)+(-0.0088)Asn+(-0.1017)His+(-0.0040)Arg+(0.0000)Val+(0.1050)Phe+(-0.1145)Trp;0.832,0.866,0.800,0.782,0.810,0.813,0.816,0.805,(6.1135)+(-0.1112)His+(-0.0112)Arg+(0.0233)Orn+(0.0054)Lys+(0.0915)Phe+(-0.1189)Trp;0.832,0.861,0.778,0.760,0.755,0.838,0.829,0.796,(2.3309)+(0.0355)Ser+(0.0003)Gln+(-0.0086)Ala+(-0.0128)Lys+(0.0818)Ile+(-0.1528)Trp;0.832,0.853,0.744,0.705,0.726,0.836,0.816,0.771,(1.6166)+(0.0395)Ser+(-0.0060)Gly+(0.0045)Gln+(-0.1488)His+(0.0972)Ile+(-0.0336)Leu;0.832,0.864,0.795,0.790,0.777,0.803,0.841,0.803,(3.2798)+(-0.0051)Pro+(-0.0041)Lys+(0.1448)Ile+(-0.0725)Leu+(0.0679)Phe+(-0.1549)Trp;0.832,0.855,0.740,0.711,0.743,0.820,0.754,0.757,(1.7286)+(0.0542)Ser+(-0.1039)Asn+(-0.1502)His+(0.0095)Thr+(-0.0093)Lys+(0.1151)Phe;0.832,0.859,0.805,0.798,0.824,0.858,0.746,0.806,(5.0957)+(0.0279)Ser+(-0.0050)Ala+(-0.1165)Cit+(0.0018)Tyr+(0.0550)Orn+(-0.1530)Trp;0.832,0.859,0.800,0.796,0.760,0.840,0.865,0.815,(6.9840)+(-0.0667)Asn+(-0.0141)Arg+(-0.0449)Val+(0.0077)Lys+(0.1575)Ile+(-0.1177)Trp;0.832,0.858,0.814,0.792,0.822,0.852,0.828,0.824,(6.6936)+(-0.0075)Ala+(-0.1050)Cit+(-0.0613)Met

+(0.0438)Orn+(0.0689)Ile+(-0.1513)Trp;0.832,0.858,0.831,0.830,0.853,0.858,0.771,0.828,(6.4951)+(-0.1024)Asn+(0.0062)Gln+(0.0126)Thr+(-0.1114)Cit+(0.0467)Orn+(-0.1544)Trp;0.832,0.855,0.824,0.824,0.819,0.846,0.820,0.827,(5.6719)+(-0.0422)Asn+(0.0016)Gly+(0.0112)Gln+(-0.1166)His+(0.0091)Val+(-0.1081)Trp;0.832,0.853,0.746,0.722,0.748,0.817,0.752,0.760,(1.5024)+(0.0588)Ser+(-0.0879)Asn+(-0.1448)His+(-0.0147)Arg+(-0.0046)Lys+(0.1173)Phe;0.832,0.867,0.789,0.778,0.791,0.785,0.815,0.792,(1.1068)+(0.0460)Ser+(-0.0084)Gly+(-0.0142)Lys+(0.0053)Leu+(0.0770)Phe+(-0.1665)Trp;0.832,0.863,0.832,0.829,0.819,0.826,0.872,0.837,(1.6616)+(0.0057)Gln+(-0.0056)Ala+(-0.2371)Met+(0.0600)Ile+(0.0887)Phe+(-0.1543)Trp;0.832,0.863,0.788,0.754,0.804,0.834,0.808,0.800,(7.5236)+(-0.0784)His+(-0.0742)Cit+(-0.0052)Tyr+(0.0449)Orn+(0.0594)Ile+(-0.1308)Trp;0.832,0.859,0.805,0.798,0.807,0.827,0.806,0.810,(5.4209)+(0.0089)Gln+(-0.1237)His+(0.0040)Pro+(0.0063)Val+(0.0174)Orn+(-0.1129)Trp;0.832,0.861,0.821,0.810,0.848,0.822,0.793,0.818,(4.5534)+(-0.1123)Cit+(0.0059)Arg+(-0.1629)Met+(0.0441)Orn+(0.1085)Phe+(-0.1588)Trp;0.832,0.856,0.811,0.800,0.839,0.822,0.775,0.809,(5.1778)+(-0.1289)Cit+(-0.0034)Val+(0.0542)Orn+(-0.0097)Lys+(0.0880)Phe+(-0.1651)Trp;0.832,0.866,0.783,0.757,0.777,0.853,0.811,0.799,(3.4223)+(0.0091)Gln+(-0.1469)His+(0.0267)Thr+(-0.2669)Met+(-0.0025)Lys+(0.0714)Ile;0.832,0.857,0.765,0.738,0.795,0.804,0.748,0.771,(3.9792)+(-0.1454)His+(0.0456)Thr+(-0.0398)Cit+(-0.3341)Met+(0.0099)Leu+(0.1359)Phe;0.832,0.864,0.749,0.709,0.757,0.846,0.770,0.771,(2.5151)+(0.0526)Ser+(-0.1152)His+(-0.0373)Cit+(-0.2054)Met+(-0.0031)Lys+(0.0852)Ile;0.832,0.863,0.810,0.794,0.825,0.879,0.773,0.818,(5.9713)+(0.0443)Ser+(-0.0793)His+(-0.0361)Cit+(0.0456)Tyr+(-0.1199)Met+(-0.1092)Trp;0.832,0.860,0.748,0.744,0.736,0.756,0.780,0.754,(0.1562)+(0.0315)Ser+(-0.0437)Tyr+(-0.0117)Orn+(0.0469)Ile+(0.0788)Phe+(-0.1805)Trp;0.832,0.860,0.808,0.805,0.773,0.842,0.863,

0.821,(5.7200)+(-0.0081)Ala+(-0.0043)Tyr+(0.0016)Lys+(0.1617)Ile+(-0.0673)Leu+(-0.1346)Trp;0.832,0.856,0.747,0.719,0.710,0.852,0.819,0.775,(3.6785)+(0.0465)Ser+(-0.1152)Asn+(-0.0852)His+(-0.0043)Tyr+(-0.0369)Val+(0.1448)Ile;0.832,0.855,0.756,0.739,0.712,0.862,0.813,0.782,(3.2942)+(0.0428)Ser+(-0.1920)Asn+(0.0109)Thr+(-0.0570)Cit+(-0.0556)Val+(0.1759)Ile;0.832,0.863,0.856,0.865,0.848,0.848,0.856,0.854,(3.4918)+(-0.0812)Asn+(0.0083)Gln+(-0.0048)Ala+(-0.0926)Cit+(0.1044)Phe+(-0.1577)Trp;0.832,0.860,0.775,0.773,0.788,0.816,0.724,0.775,(3.0344)+(0.0381)Ser+(0.0129)Thr+(0.0094)Pro+(-0.2559)Met+(0.0189)Leu+(-0.1508)Trp;0.832,0.859,0.837,0.833,0.839,0.857,0.830,0.840,(5.8402)+(-0.0394)Asn+(0.0122)Gln+(-0.1039)His+(-0.0446)Cit+(0.0106)Val+(-0.1150)Trp;0.832,0.856,0.763,0.740,0.789,0.799

,0.742,0.768,(3.9621)+(-0.1440)His+(0.0467)Thr+(-0.0148)Arg+(0.0044)Pro+(-0.3286)Met+(0.1405)Phe;0.832,0.855,0.718,0.686,0.701,0.792,0.784,0.741,(0.6896)+(0.0507)Ser+(-0.0048)Gly+(-0.1571)His+(-0.0545)Tyr+(0.0419)Ile+(0.0945)Phe;0.832,0.867,0.782,0.788,0.772,0.782,0.783,0.781,(0.4741)+(0.0312)Ser+(-0.0057)Thr+(-0.0070)Val+(0.0044)Orn+(0.0839)Phe+(-0.1668)Trp;0.832,0.865,0.789,0.801,0.767,0.808,0.792,0.792,(0.8544)+(0.0313)Ser+(-0.0046)Ala+(-0.0309)Tyr+(-0.0038)Val+(0.1061)Phe+(-0.1553)Trp;0.832,0.864,0.770,0.764,0.756,0.829,0.771,0.780,(3.0518)+(0.0365)Ser+(-0.0324)Arg+(-0.0055)Tyr+(0.1652)Ile+(-0.0721)Leu+(-0.1417)Trp;0.832,0.862,0.744,0.704,0.746,0.843,0.776,0.767,(2.2662)+(0.0519)Ser+(-0.0017)Asn+(-0.1250)His+(-0.2118)Met+(-0.0022)Lys+(0.0840)Ile;0.832,0.857,0.782,0.762,0.758,0.826,0.852,0.799,(2.1780)+(0.0413)Ser+(-0.0063)Gly+(-0.0025)Thr+(-0.0087)Ala+(0.0728)Ile+(-0.1626)Trp;0.832,0.857,0.804,0.790,0.796,0.849,0.826,0.816,(6.2588)+(0.0055)Gly+(-0.0079)Ala+(-0.0891)Cit+(-0.0059)Lys+(0.0888)Ile+(-0.1540)Trp;0.832,0.856,0.819,0.808,0.834,0.852,0.791,0.821,(8.2237)+(-0.0405)Asn+(-0.0072

)Ala+(-0.1156)Cit+(0.0123)Pro+(0.0598)Orn+(-0.1404)Trp;0.832,0.861,0.809,0.812,0.826,0.860,0.730,0.807,(6.4263)+(0.0367)Ser+(-0.1011)Asn+(0.0152)Thr+(-0.0711)Cit+(-0.0011)Arg+(-0.1422)Trp;0.832,0.857,0.807,0.806,0.815,0.843,0.762,0.807,(8.3999)+(-0.0893)His+(0.0286)Thr+(0.0004)Ala+(-0.1406)Met+(0.0107)Lys+(-0.1076)Trp;0.832,0.858,0.770,0.760,0.747,0.822,0.811,0.785,(2.1646)+(0.0337)Ser+(-0.0122)Thr+(-0.0022)Pro+(0.1526)Ile+(-0.0662)Leu+(-0.1460)Trp;0.832,0.859,0.784,0.754,0.790,0.821,0.823,0.797,(7.3432)+(-0.0027)Asn+(-0.0987)His+(-0.0063)Tyr+(0.0242)Orn+(0.0599)Ile+(-0.1179)Trp;0.832,0.864,0.772,0.784,0.758,0.782,0.760,0.771,(0.8973)+(0.0325)Ser+(-0.0010)Gln+(-0.0396)Tyr+(-0.0061)Val+(0.1075)Phe+(-0.1576)Trp;0.832,0.864,0.775,0.787,0.777,0.785,0.730,0.770,(0.8735)+(0.0361)Ser+(-0.0269)Arg+(-0.0363)Tyr+(0.0084)Orn+(0.1026)Phe+(-0.1619)Trp;0.832,0.864,0.805,0.777,0.810,0.835,0.848,0.818,(7.6310)+(-0.0685)His+(-0.0482)Cit+(0.0122)Arg+(-0.0854)Met+(0.0742)Ile+(-0.1203)Trp;0.832,0.863,0.744,0.703,0.751,0.844,0.764,0.766,(2.3132)+(0.0521)Ser+(-0.1282)His+(-0.0104)Arg+(-0.2093)Met+(0.0156)Orn+(0.0788)Ile;0.832,0.857,0.817,0.820,0.816,0.850,0.789,0.819,(6.2150)+(0.0084)Gln+(-0.1035)His+(0.0156)Thr+(-0.0416)Cit+(0.0018)Lys+(-0.1132)Trp;0.832,0.855,0.776,0.751,0.776,0.817,0.814,0.790,(6.7801)+(0.0041)Gly+(-0.1014)His+(0.0001)Pro+(0.0027)Lys+(0.0660)Ile+(-0.1203)Trp;0.832,0.861,0.793,0.779,0.765,0.838,0.854,0.809,(6.5233)+(-0.0593)Cit+(-0.0050)Arg+(-0.0368)Val+(-0.0014)Lys+(0.1519)Ile+(-0.1371)Trp;0.832,0.860,0.800,0.802,0.798,0.831,0.776,0.802,(4.2358)+(0.0527)Ser+(-0.0078)Gly+(-0.0094)Arg+(0.0138)Pro+(-0.1812)Met+(-0.1340)Trp;0.832,0.859,0.786,0.778,0.774,0.830,0.802,0.796,(2.3908)+(0.0405)Ser+(-0.1319)Asn+(0.0027)Gln+(0.0012)Thr+(0.0557)Ile+(-0.1540)Trp;0.832,0.859,0.845,0.855,0.858,0.868,0.774,0.839,(6.5708)+(-0.0762)Asn+(0.0075)Gln+(0.0262)Thr+(-0.0692)Cit+(-0.1210)Met+(-0.1428)Trp;0.832,0.860,0.817,0.81

8,0.809,0.860,0.801,0.822,(4.7530)+(0.0386)Ser+(-0.0061)Gly+(0.0087)G
ln+(-0.1075)His+(-0.0176)Arg+(-0.0957)Trp;0.832,0.857,0.792,0.772,0.8
08,0.791,0.813,0.796,(2.8093)+(0.0031)Gln+(0.0078)Thr+(-0.1060)Cit+(0
.0493)Ile+(0.0617)Phe+(-0.2013)Trp;0.832,0.863,0.852,0.860,0.850,0.83
5,0.845,0.848,(3.5427)+(-0.0934)Asn+(0.0083)Gln+(-0.0913)Cit+(-0.0035
)Val+(0.0985)Phe+(-0.1588)Trp;0.832,0.863,0.838,0.847,0.840,0.833,0.8
11,0.833,(3.0441)+(-0.1003)Asn+(0.0045)Gly+(0.0078)Gln+(-0.1000)Cit+(
0.0979)Phe+(-0.1633)Trp;0.832,0.861,0.788,0.767,0.796,0.847,0.787,0.7
99,(5.5915)+(0.0410)Ser+(-0.0050)Gly+(-0.0991)His+(0.0055)Tyr+(0.0269
)Orn+(-0.1025)Trp;0.832,0.857,0.789,0.779,0.788,0.847,0.774,0.797,(6.
2194)+(0.0401)Ser+(-0.0058)Gly+(-0.0960)His+(0.0130)Thr+(-0.0006)Ala+
(-0.1034)Trp;0.832,0.856,0.826,0.826,0.820,0.845,0.827,0.830,(6.0326)
+(-0.0536)Asn+(0.0111)Gln+(-0.1068)His+(0.0065)Pro+(0.0105)Tyr+(-0.10
51)Trp;0.832,0.861,0.815,0.799,0.830,0.849,0.800,0.819,(5.7252)+(0.00
89)Gln+(-0.1039)His+(-0.0748)Cit+(0.0077)Val+(0.0410)Orn+(-0.1229)Trp
;0.832,0.861,0.817,0.814,0.830,0.855,0.768,0.817,(6.5111)+(0.0434)Ser
+(-0.1013)Asn+(-0.0053)Gly+(0.0157)Thr+(-0.0656)Cit+(-0.1435)Trp;0.83
2,0.858,0.808,0.798,0.812,0.834,0.810,0.813,(5.5113)+(0.0106)Gln+(-0.
1284)His+(-0.0165)Arg+(0.0217)Orn+(0.0214)Leu+(-0.1145)Trp;0.832,0.85
4,0.809,0.803,0.807,0.829,0.812,0.813,(5.3294)+(0.0096)Gln+(-0.1241)H
is+(0.0047)Pro+(0.0076)Val+(0.0024)Lys+(-0.1152)Trp;0.832,0.853,0.747
,0.718,0.745,0.820,0.773,0.764,(1.5804)+(0.0594)Ser+(-0.0924)Asn+(-0.
0020)Gly+(-0.1453)His+(-0.0078)Lys+(0.1139)Phe;0.832,0.865,0.797,0.79
5,0.783,0.805,0.824,0.802,(3.8858)+(-0.0267)Arg+(0.0044)Orn+(0.1500)I
le+(-0.0802)Leu+(0.0745)Phe+(-0.1493)Trp;0.832,0.861,0.822,0.817,0.82
1,0.847,0.817,0.826,(5.4773)+(0.0102)Gln+(-0.1161)His+(0.0083)Val+(-0
.0784)Met+(0.0209)Orn+(-0.1052)Trp;0.832,0.861,0.770,0.742,0.789,0.81
3,0.772,0.779,(3.7898)+(-0.1515)His+(0.0438)Thr+(-0.0017)Ala+(-0.3248

)Met+(0.0105)Leu+(0.1336)Phe;0.832,0.861,0.799,0.793,0.759,0.842,0.868,0.816,(6.7767)+(-0.0788)Asn+(-0.0032)Tyr+(-0.0432)Val+(0.0050)Lys+(0.1535)Ile+(-0.1166)Trp;0.832,0.860,0.801,0.796,0.808,0.863,0.753,0.805,(6.7378)+(0.0430)Ser+(-0.0480)Asn+(-0.0704)His+(0.0008)Ala+(-0.0361)Cit+(-0.0980)Trp;0.832,0.860,0.833,0.826,0.834,0.854,0.833,0.837,(5.2637)+(0.0117)Gln+(-0.1197)His+(0.0277)Tyr+(0.0097)Val+(-0.1128)Met+(-0.1134)Trp;0.832,0.862,0.797,0.776,0.795,0.815,0.843,0.807,(6.0369)+(-0.1076)His+(-0.0166)Val+(0.0025)Lys+(0.0355)Leu+(0.0948)Phe+(-0.1210)Trp;0.832,0.859,0.830,0.820,0.830,0.844,0.851,0.836,(4.8589)+(-0.0751)Asn+(0.0081)Gln+(-0.0865)Cit+(-0.0046)Tyr+(0.0616)Ile+(-0.1686)Trp;0.832,0.855,0.812,0.812,0.823,0.853,0.760,0.812,(5.6243)+(0.0413)Ser+(-0.0759)Asn+(-0.0022)Ala+(-0.0714)Cit+(0.0076)Val+(-0.1421)Trp;0.832,0.858,0.781,0.755,0.758,0.852,0.848,0.803,(6.1421)+(-0.0114)Asn+(-0.0654)His+(-0.0450)Val+(-0.2061)Met+(0.0328)Orn+(0.1657)Ile;0.832,0.856,0.810,0.797,0.840,0.821,0.776,0.809,(5.1930)+(-0.1317)Cit+(0.0013)Arg+(0.0530)Orn+(-0.0112)Lys+(0.0846)Phe+(-0.1692)Trp;0.832,0.860,0.804,0.793,0.804,0.857,0.795,0.812,(6.2773)+(0.0485)Ser+(-0.0531)Asn+(-0.0043)Gly+(-0.0842)His+(0.0219)Tyr+(-0.1034)Trp;0.832,0.865,0.832,0.831,0.829,0.810,0.855,0.831,(1.6276)+(-0.0332)Asn+(0.0069)Gln+(-0.2525)Met+(0.0501)Ile+(0.0886)Phe+(-0.1559)Trp;0.832,0.863,0.799,0.792,0.798,0.846,0.785,0.805,(5.2456)+(0.0447)Ser+(-0.1017)Asn+(-0.0609)Cit+(-0.0213)Val+(0.0542)Leu+(-0.1425)Trp;0.832,0.860,0.789,0.789,0.792,0.822,0.762,0.791,(3.6003)+(0.0469)Ser+(-0.0605)Asn+(0.0103)Pro+(-0.1709)Met+(0.0175)Leu+(-0.1396)Trp;0.832,0.859,0.795,0.791,0.755,0.840,0.856,0.811,(6.7677)+(-0.0608)Asn+(0.0022)Gly+(-0.0110)Arg+(-0.0432)Val+(0.1592)Ile+(-0.1135)Trp;0.832,0.858,0.800,0.774,0.791,0.840,0.860,0.816,(7.5827)+(0.0091)Asn+(-0.0904)His+(-0.0056)Ala+(0.0108)Tyr+(0.0743)Ile+(-0.1212)Trp;0.832,0.858,0.819,0.811,0.821,0.840,0.817,0.822

,(5.4614)+(0.0106)Gln+(-0.1102)His+(-0.0473)Cit+(0.0060)Pro+(0.0097)Val+(-0.1229)Trp;0.832,0.855,0.749,0.719,0.723,0.849,0.812,0.776,(1.9011)+(0.0350)Ser+(0.0041)Gln+(-0.1492)His+(-0.0066)Ala+(-0.0122)Tyr+(0.0686)Ile;0.832,0.867,0.779,0.790,0.778,0.794,0.744,0.777,(0.8931)+(0.0380)Ser+(-0.0225)Arg+(-0.0335)Tyr+(-0.0046)Lys+(0.1091)Phe+(-0.1589)Trp;0.832,0.865,0.815,0.806,0.811,0.826,0.838,0.821,(6.3233)+(-0.1026)His+(-0.0026)Ala+(-0.0108)Tyr+(0.0021)Val+(0.1109)Phe+(-0.1119)Trp;0.832,0.862,0.804,0.790,0.816,0.866,0.769,0.810,(6.4509)+(0.0449)Ser+(-0.0558)Asn+(-0.0763)His+(-0.0403)Cit+(0.0287)Tyr+(-0.1091)Trp;0.832,0.859,0.803,0.788,0.806,0.830,0.819,0.811,(5.4032)+(0.0091)Gln+(-0.1292)His+(0.0181)Orn+(-0.0015)Lys+(0.0230)Leu+(-0.1164)Trp;0.832,0.859,0.793,0.778,0.792,0.841,0.797,0.802,(6.0390)+(-0.0984)Cit+(-0.0145)Tyr+(0.0389)Orn+(0.1347)Ile+(-0.0571)Leu+(-0.1460)Trp;0.832,0.860,0.823,0.839,0.823,0.863,0.752,0.819,(4.5523)+(0.0298)Ser+(-0.0850)Asn+(0.0045)Gln+(0.0153)Thr+(-0.1312)Met+(-0.1392)Trp;0.832,0.859,0.784,0.790,0.793,0.830,0.715,0.782,(3.9366)+(0.0352)Ser+(0.0118)Thr+(0.0120)Pro+(0.0004)Val+(-0.2242)Met+(-0.1411)Trp;0.832,0.866,0.773,0.776,0.785,0.782,0.738,0.770,(0.7855)+(0.0349)Ser+(0.0011)Thr+(-0.0303)Arg+(0.0037)Pro+(0.0844)Phe+(-0.1773)Trp;0.832,0.863,0.814,0.798,0.812,0.830,0.849,0.822,(6.4532)+(-0.1055)His+(-0.0035)Ala+(-0.0025)Arg+(0.0127)Leu+(0.0991)Phe+(-0.1189)Trp;0.832,0.861,0.805,0.797,0.807,0.864,0.778,0.812,(4.5110)+(0.0317)Ser+(0.0069)Gln+(-0.1070)His+(-0.0424)Cit+(0.0219)Tyr+(-0.1123)Trp;0.832,0.854,0.807,0.807,0.801,0.832,0.800,0.810,(5.9525)+(-0.0011)Gly+(0.0083)Gln+(-0.1153)His+(0.0121)Thr+(0.0055)Pro+(-0.1107)Trp;0.832,0.863,0.804,0.792,0.813,0.867,0.773,0.811,(5.8627)+(0.0441)Ser+(-0.0872)His+(-0.0071)Arg+(0.0443)Tyr+(-0.1166)Met+(-0.1048)Trp;0.832,0.863,0.747,0.700,0.751,0.845,0.789,0.771,(1.9358)+(0.0561)Ser+(-0.0022)Gly+(-0.1273)His+(0.0131)Tyr+(-0.2406)Met+(0.0820

)Ile;0.832,0.862,0.784,0.763,0.783,0.851,0.791,0.797,(3.5351)+(0.0107)Gln+(-0.1486)His+(0.0315)Thr+(-0.0211)Arg+(-0.2656)Met+(0.0705)Ile;0.832,0.861,0.806,0.799,0.800,0.838,0.813,0.813,(0.6060)+(0.0044)Gly+(0.0116)Gln+(-0.1563)His+(-0.0022)Val+(-0.2456)Met+(0.1371)Phe;0.832,0.864,0.743,0.698,0.750,0.846,0.776,0.767,(1.8970)+(0.0519)Ser+(-0.1312)His+(0.0119)Tyr+(-0.2436)Met+(0.0108)Orn+(0.0799)Ile;0.832,0.862,0.749,0.709,0.757,0.847,0.770,0.771,(2.4614)+(0.0521)Ser+(-0.0023)Asn+(-0.1168)His+(-0.0367)Cit+(-0.2122)Met+(0.0834)Ile;0.832,0.859,0.765,0.748,0.780,0.795,0.754,0.769,(3.8511)+(0.0020)Asn+(-0.1469)His+(0.0439)Thr+(-0.0249)Tyr+(-0.2936)Met+(0.1499)Phe;0.832,0.858,0.824,0.810,0.824,0.852,0.838,0.831,(5.5630)+(0.0109)Gln+(-0.1121)His+(-0.0028)Ala+(-0.0451)Cit+(0.0303)Leu+(-0.1213)Trp;0.832,0.855,0.784,0.757,0.810,0.798,0.789,0.788,(3.9161)+(0.0072)Thr+(-0.1244)Cit+(0.0310)Orn+(0.0417)Ile+(0.0585)Phe+(-0.1970)Trp;0.832,0.866,0.780,0.769,0.768,0.783,0.831,0.788,(1.1838)+(0.0384)Ser+(-0.0073)Gly+(-0.0241)Val+(0.0359)Leu+(0.0733)Phe+(-0.1731)Trp;0.832,0.862,0.808,0.789,0.831,0.847,0.778,0.811,(3.5033)+(0.0449)Ser+(-0.0704)Cit+(0.0360)Tyr+(-0.2135)Met+(0.0258)Leu+(-0.1578)Trp;0.832,0.862,0.793,0.778,0.765,0.836,0.856,0.809,(6.4649)+(-0.0633)Cit+(-0.0018)Tyr+(-0.0357)Val+(-0.0028)Lys+(0.1506)Ile+(-0.1376)Trp;0.832,0.860,0.823,0.814,0.822,0.844,0.835,0.829,(5.1799)+(0.0110)Gln+(-0.1197)His+
(-0.1049)Met+(0.0052)Lys+(0.0261)Leu+(-0.1101)Trp;0.832,0.857,0.807,0.795,0.799,0.852,0.823,0.817,(6.3399)+(-0.0268)Asn+(0.0058)Gly+(-0.0076)Ala+(-0.0857)Cit+(0.0831)Ile+(-0.1537)Trp;0.832,0.859,0.812,0.791,0.805,0.840,0.864,0.825,(6.5342)+(-0.0105)Ala+(-0.0855)Cit+(0.0094)Pro+(0.0067)Tyr+(0.0760)Ile+(-0.1619)Trp;0.832,0.858,0.806,0.796,0.824,0.839,0.773,0.808,(8.4735)+(-0.0951)His+(0.0308)Thr+(0.0192)Tyr+(0.0081)Val+(-0.1512)Met+(-0.1155)Trp;0.832,0.860,0.755,0.746,0.724,0.796,

0.813,0.770,(3.7058)+(-0.1157)His+(-0.0593)Tyr+(0.0188)Orn+(0.1153)Ile+(-0.0606)Leu+(0.0992)Phe;0.832,0.857,0.782,0.763,0.754,0.851,0.842,0.803,(5.5976)+(0.0042)Gly+(-0.0734)His+(-0.0441)Val+(-0.2560)Met+(0.0123)Lys+(0.1707)Ile;0.832,0.859,0.813,0.811,0.807,0.862,0.798,0.819,(4.7404)+(0.0369)Ser+(-0.0050)Gly+(0.0073)Gln+(-0.0992)His+(-0.0343)Cit+(-0.1021)Trp;0.832,0.862,0.850,0.856,0.852,0.836,0.843,0.847,(3.5137)+(-0.0865)Asn+(0.0084)Gln+(-0.0950)Cit+(-0.0029)Lys+(0.0955)Phe+(-0.1631)Trp;0.832,0.860,0.767,0.741,0.734,0.830,0.860,0.791,(4.7614)+(-0.0915)Asn+(-0.0868)His+(-0.0455)Val+(0.0267)Orn+(0.1300)Ile+(0.0705)Phe;0.832,0.859,0.806,0.800,0.813,0.847,0.780,0.810,(5.1320)+(0.0432)Ser+(-0.0823)Asn+(-0.0030)Ala+(-0.0712)Cit+(0.0240)Leu+(-0.1477)Trp;0.832,0.857,0.801,0.798,0.785,0.828,0.826,0.809,(6.1410)+(-0.0671)Asn+(0.0108)Thr+(-0.0032)Pro+(0.1366)Ile+(-0.0605)Leu+(-0.1383)Trp;0.832,0.859,0.768,0.757,0.745,0.819,0.809,0.783,(2.0964)+(0.0342)Ser+(-0.0130)Thr+(-0.0001)Orn+(0.1495)Ile+(-0.0660)Leu+(-0.1463)Trp;0.832,0.864,0.771,0.783,0.777,0.780,0.720,0.765,(1.0794)+(0.0332)Ser+(0.0089)Thr+(-0.0296)Arg+(-0.0406)Tyr+(0.1079)Phe+(-0.1667)Trp;0.832,0.856,0.747,0.710,0.725,0.854,0.816,0.776,(1.7224)+(0.0353)Ser+(0.0038)Gln+(-0.1540)His+(-0.0074)Ala+(0.0061)Orn+(0.0658)Ile;0.832,0.863,0.783,0.785,0.759,0.806,0.812,0.790,(0.6923)+(0.0306)Ser+(-0.0093)Ala+(0.0093)Pro+(-0.0017)Orn+(0.0828)Phe+(-0.1687)Trp;0.832,0.863,0.782,0.782,0.758,0.804,0.814,0.790,(0.6687)+(0.0305)Ser+(-0.0096)Ala+(0.0089)Pro+(0.0031)Leu+(0.0795)Phe+(-0.1703)Trp;0.832,0.860,0.798,0.797,0.795,0.827,0.782,0.800,(3.8667)+(0.0518)Ser+(-0.0079)Gly+(0.0132)Pro+(0.0013)Val+(-0.1951)Met+(-0.1380)Trp;0.831,0.857,0.712,0.669,0.690,0.815,0.797,0.743,(0.4125)+(0.0378)Ser+(-0.1442)His+(-0.0306)Val+(0.0086)Orn+(0.1017)Ile+(0.0729)Phe;0.831,0.858,0.749,0.731,0.711,0.806,0.833,0.770,(3.8825)+(-0.1105)His+(-0.0495)Tyr+(-0.0358)Val+(0.0250)Orn+(0.1165)Il

e+(0.0828)Phe;0.831,0.859,0.809,0.796,0.813,0.842,0.809,0.815,(5.2051)+(0.0032)Gly+(0.0101)Gln+(-0.1164)His+(-0.0487)Cit+(0.0292)Leu+(-0.1256)Trp;0.831,0.857,0.816,0.813,0.847,0.852,0.737,0.812,(8.1422)+(-0.0536)Asn+(0.0223)Thr+(-0.1022)Cit+(-0.1015)Met+(0.0488)Orn+(-0.1415)Trp;0.831,0.856,0.812,0.802,0.807,0.843,0.830,0.820,(5.3946)+(0.0014)Gly+(0.0098)Gln+(-0.1261)His+(-0.0026)Ala+(0.0277)Leu+(-0.1152)Trp;0.831,0.856,0.785,0.766,0.790,0.841,0.788,0.796,(5.4004)+(0.0464)Ser+(-0.0043)Gly+(-0.1049)His+(-0.0018)Ala+(0.0126)Val+(-0.1085)Trp;0.831,0.865,0.799,0.774,0.821,0.826,0.798,0.805,(6.1138)+(-0.0901)His+(-0.0883)Cit+(0.0009)Arg+(0.0468)Orn+(0.1017)Phe+(-0.1340)Trp;0.831,0.864,0.742,0.702,0.748,0.840,0.766,0.764,(2.2387)+(0.0540)Ser+(-0.1235)His+(-0.0091)Arg+(0.0048)Pro+(-0.2213)Met+(0.0773)Ile;0.831,0.861,0.785,0.768,0.767,0.832,0.835,0.801,(2.6754)+(0.0444)Ser+(-0.0059)Gly+(-0.0080)Ala+(-0.0199)Arg+(0.0759)Ile+(-0.1599)Trp;0.831,0.858,0.768,0.738,0.787,0.834,0.760,0.780,(5.1120)+(0.0450)Ser+(-0.1010)His+(-0.0433)Cit+(-0.0034)Lys+(0.0346)Leu+(-0.1202)Trp;0.831,0.861,0.805,0.788,0.799,0.846,0.836,0.817,(6.1200)+(0.0156)Thr+(-0.0091)Ala+(-0.0879)Cit+(0.0012)Tyr+(0.0805)Ile+(-0.1707)Trp;0.831,0.861,0.775,0.762,0.768,0.828,0.790,0.787,(2.9048)+(0.0442)Ser+(-0.1055)Asn+(0.0065)Orn+(-0.0070)Lys+(0.0595)Ile+(-0.1468)Trp;0.831,0.860,0.794,0.783,0.790,0.837,0.801,0.803,(6.2102)+(0.0116)Thr+(-0.0710)Cit+(-0.0119)Arg+(0.1430)Ile+(-0.0579)Leu+(-0.1546)Trp;0.831,0.858,0.798,0.783,0.824,0.838,0.752,0.799,(4.6444)+(0.0345)Ser+(-0.0048)Gly+(-0.1114)Cit+(0.0016)Val+(0.0466)Orn+(-0.1682)Trp;0.831,0.858,0.812,0.811,0.828,0.849,0.756,0.811,(8.7324)+(-0.0796)His+(0.0308)Thr+(-0.0359)Cit+(-0.1345)Met+(0.0100)Lys+(-0.1093)Trp;0.831,0.859,0.777,0.782,0.768,0.763,0.793,0.777,(1.1509)+(0.0426)Ser+(-0.0097)Gly+(0.0040)Thr+(-0.0525)Tyr+(0.0962)Phe+(-0.1621)Trp;0.831,0.862,0.818,0.808,0.816,0.830,0.841,0.824,(6.4495)+(-0.102

0)His+(-0.0030)Ala+(-0.0039)Arg+(0.0018)Val+(0.1076)Phe+(-0.1142)Trp;0.831,0.857,0.740,0.711,0.721,0.841,0.784,0.764,(3.3243)+(0.0439)Ser+(-0.0693)Asn+(-0.1143)His+(-0.0184)Tyr+(0.1109)Ile+(-0.0347)Leu;0.831,0.856,0.812,0.817,0.813,0.840,0.780,0.812,(6.1327)+(0.0098)Gln+(-0.1191)His+(0.0182)Thr+(-0.0258)Arg+(0.0069)Lys+(-0.1108)Trp;0.831,0.863,0.830,0.818,0.834,0.854,0.837,0.836,(5.3381)+(0.0118)Gln+(-0.1092)His+(-0.0406)Cit+(-0.0785)Met+(0.0299)Leu+(-0.1150)Trp;0.831,0.861,0.806,0.798,0.800,0.839,0.813,0.813,(0.5848)+(0.0045)Gly+(0.0116)Gln+(-0.1579)His+(-0.0006)Ala+(-0.2437)Met+(0.1341)Phe;0.831,0.861,0.819,0.822,0.798,0.848,0.837,0.826,(4.2859)+(0.0071)Gln+(-0.0162)Arg+(-0.1690)Met+(0.1610)Ile+(-0.0673)Leu+(-0.1297)Trp;0.831,0.858,0.802,0.792,0.829,0.848,0.740,0.802,(8.5609)+(-0.0744)His+(0.0253)Thr+(-0.0736)Cit+(-0.1049)Met+(0.0483)Orn+(-0.1081)Trp;0.831,0.856,0.779,0.755,0.778,0.821,0.815,0.792,(6.9082)+(-0.0125)Asn+(0.0044)Gly+(-0.0992)His+(0.0037)Lys+(0.0651)Ile+(-0.1193)Trp;0.831,0.855,0.780,0.756,0.779,0.821,0.815,0.793,(6.9860)+(-0.0070)Asn+(0.0043)Gly+(-0.0973)His+(0.0003)Pro+(0.0671)Ile+(-0.1175)Trp;0.831,0.855,0.811,0.803,0.811,0.832,0.819,0.816,(5.4089)+(0.0114)Gln+(-0.1272)His+(-0.0156)Arg+(0.0051)Pro+(0.0223)Leu+(-0.1160)Trp;0.831,0.862,0.767,0.742,0.759,0.838,0.800,0.785,(5.5792)+(0.0225)Asn+(-0.1129)His+(0.0273)Thr+(-0.2595)Met+(0.1260)Ile+(-0.0388)Leu;0.831,0.854,0.743,0.698,0.725,0.850,0.822,0.774,(2.5355)+(0.0459)Ser+(-0.0041)Gly+(-0.1438)His+(-0.0076)Ala+(0.0110)Orn+(0.0668)Ile;0.831,0.862,0.786,0.769,0.775,0.824,0.824,0.798,(3.3587)+(0.0520)Ser+(-0.1040)Asn+(-0.0066)Gly+(-0.0111)Tyr+(0.0579)Ile+(-0.1504)Trp;0.831,0.861,0.762,0.744,0.777,0.798,0.751,0.768,(3.7982)+(-0.1474)His+(0.0423)Thr+(-0.0267)Tyr+(-0.2850)Met+(0.0094)Orn+(0.1457)Phe;0.831,0.860,0.798,0.791,0.758,0.840,0.867,0.814,(6.7773)+(-0.0650)Asn+(-0.0027)Tyr+(-0.0376)Val+(0.1645)Ile+(-0.0146)Leu+(-0.1140)Trp;0.831,0.

856,0.794,0.772,0.814,0.803,0.806,0.798,(3.1378)+(0.0030)Gln+(-0.1257)Cit+(0.0310)Orn+(0.0427)Ile+(0.0558)Phe+(-0.1966)Trp;0.831,0.856,0.831,0.831,0.824,0.850,0.832,0.834,(5.8317)+(-0.0366)Asn+(0.0115)Gln+(-0.1148)His+(-0.0015)Ala+(0.0096)Val+(-0.1076)Trp;0.831,0.855,0.748,0.724,0.744,0.820,0.767,0.764,(1.5502)+(0.0568)Ser+(-0.1062)Asn+(-0.1396)His+(-0.0056)Val+(-0.0043)Lys+(0.1240)Phe;0.831,0.861,0.796,0.777,0.784,0.828,0.845,0.809,(7.2374)+(-0.0757)His+(-0.0006)Pro+(-0.0014)Tyr+(0.1175)Ile+(-0.0377)Leu+(-0.1138)Trp;0.831,0.859,0.816,0.822,0.788,0.834,0.846,0.822,(4.8398)+(-0.0783)Asn+(0.0058)Gln+(-0.0138)Tyr+(0.1381)Ile+(-0.0628)Leu+(-0.1326)Trp;0.831,0.858,0.796,0.790,0.800,0.847,0.765,0.800,(4.8565)+(0.0340)Ser+(-0.0071)Ala+(-0.0828)Cit+(0.0160)Pro+(0.0045)Tyr+(-0.1522)Trp;0.831,0.857,0.794,0.780,0.808,0.809,0.790,0.797,(4.1809)+(-0.0621)Asn+(0.0068)Gly+(-0.1011)Cit+(0.0518)Ile+(0.0775)Phe+(-0.1755)Trp;0.831,0.858,0.776,0.763,0.768,0.824,0.790,0.786,(2.9260)+(0.0426)Ser+(-0.1183)Asn+(0.0019)Thr+(0.0000)Pro+(0.0568)Ile+(-0.1525)Trp;0.831,0.858,0.780,0.754,0.757,0.852,0.845,0.802,(5.9952)+(-0.0675)His+(-0.0434)Val+(-0.2151)Met+(0.0318)Orn+(0.1676)Ile+(-0.0032)Leu;0.831,0.861,0.818,0.800,0.834,0.812,0.839,0.821,(4.4309)+(-0.0802)Cit+(-0.1821)Met+(-0.0018)Lys+(0.0581)Ile+(0.1019)Phe+(-0.1625)Trp;0.831,0.858,0.826,0.824,0.824,0.850,0.819,0.829,(6.0351)+(-0.0539)Asn+(0.0103)Gln+(-0.1081)His+(0.0106)Tyr+(0.0239)Orn+(-0.1030)Trp;0.831,0.858,0.784,0.772,0.786,0.853,0.759,0.793,(5.8642)+(0.0340)Ser+(-0.1012)His+(0.0092)Thr+(-0.0014)Ala+(0.0170)Tyr+(-0.1063)Trp;0.831,0.859,0.783,0.753,0.790,0.822,0.822,0.797,(7.3066)+(-0.0995)His+(-0.0003)Pro+(-0.0062)Tyr+(0.0242)Orn+(0.0605)Ile+(-0.1182)Trp;0.831,0.858,0.746,0.743,0.735,0.755,0.773,0.751,(0.2231)+(0.0300)Ser+(-0.0003)Pro+(-0.0450)Tyr+(0.0434)Ile+(0.0732)Phe+(-0.1783)Trp;0.831,0.854,0.740,0.710,0.741,0.820,0.762,0.758,(1.4349)+(0.0574)Ser+(-0.0927)Asn+(-0.

1488)His+(-0.0089)Lys+(0.0063)Leu+(0.1093)Phe;0.831,0.865,0.844,0.852,0.829,0.820,0.876,0.844,(3.5014)+(-0.1103)Asn+(0.0060)Gln+(-0.0296)Val+(0.0453)Leu+(0.0850)Phe+(-0.1518)Trp;0.831,0.863,0.826,0.822,0.825,0.805,0.851,0.826,(1.4416)+(0.0061)Gln+(-0.2699)Met+(-0.0038)Lys+(0.0541)Ile+(0.0906)Phe+(-0.1557)Trp;0.831,0.860,0.759,0.747,0.723,0.823,0.819,0.778,(2.7553)+(0.0255)Ser+(-0.0027)Pro+(-0.0333)Val+(0.1675)Ile+(-0.0229)Leu+(-0.1433)Trp;0.831,0.858,0.810,0.809,0.780,0.844,0.853,0.822,(6.1761)+(-0.0076)Ala+(-0.0193)Arg+(0.0075)Lys+(0.1714)Ile+(-0.0752)Leu+(-0.1337)Trp;0.831,0.856,0.806,0.803,0.807,0.836,0.791,0.809,(5.9923)+(-0.0010)Gly+(0.0076)Gln+(-0.1171)His+(0.0114)Thr+(0.0210)Orn+(-0.1084)Trp;0.831,0.856,0.796,0.799,0.724,0.849,0.898,0.817,(4.1507)+(-0.1196)Asn+(-0.0071)Ala+(-0.0371)Tyr+(-0.0579)Val+(0.1778)Ile+(0.0887)Phe;0.831,0.854,0.750,0.725,0.744,0.819,0.774,0.766,(1.5317)+(0.0583)Ser+(-0.1119)Asn+(-0.0017)Gly+(-0.1388)His+(-0.0070)Val+(0.1220)Phe;0.831,0.863,0.786,0.778,0.801,0.861,0.720,0.790,(6.6121)+(0.0346)Ser+(-0.0892)His+(0.0173)Thr+(-0.0369)Cit+(-0.0098)Arg+(-0.1065)Trp;0.831,0.861,0.833,0.838,0.838,0.872,0.779,0.832,(4.6023)+(0.0366)Ser+(-0.1142)Asn+(0.0059)Gln+(-0.0748)Cit+(0.0142)Tyr+(-0.1443)Trp;0.831,0.861,0.785,0.772,0.799,0.861,0.738,0.792,(6.1166)+(0.0356)Ser+(-0.0926)His+(0.0121)Thr+(-0.0444)Cit+(0.0158)Tyr+(-0.1139)Trp;0.831,0.860,0.775,0.746,0.784,0.822,0.798,0.788,(6.9658)+(0.0040)Gly+(-0.1031)His+(-0.0083)Arg+(0.0236)Orn+(0.0624)Ile+(-0.1178)Trp;0.831,0.859,0.829,0.825,0.825,0.851,0.828,0.832,(5.5393)+(0.0111)Gln+(-0.1061)His+(0.0083)Pro+(0.0250)Tyr+(-0.1247)Met+(-0.1053)Trp;0.831,0.858,0.810,0.808,0.794,0.850,0.819,0.818,(5.0534)+(0.0499)Ser+(-0.0980)Asn+(-0.0069)Gly+(-0.0049)Ala+(0.0127)Pro+(-0.1313)Trp;0.831,0.856,0.801,0.800,0.782,0.822,0.831,0.809,(5.7942)+(-0.0618)Asn+(0.0015)Gly+(0.0049)Lys+(0.1389)Ile+(-0.0655)Leu+(-0.1354)Trp;0.831,0.855,0.818,0.824,0.826,0.

865,0.754,0.817,(6.0837)+(0.0410)Ser+(-0.0646)Asn+(0.0002)Ala+(-0.0595)Cit+(-0.0508)Met+(-0.1282)T

rp;0.831,0.858,0.812,0.805,0.825,0.845,0.779,0.813,(8.2816)+(-0.0904)His+(0.0283)Thr+(0.0238)Tyr+(-0.1704)Met+(0.0103)Lys+(-0.1148)Trp;0.831,0.857,0.801,0.795,0.807,0.843,0.777,0.805,(8.5401)+(-0.0387)Asn+(-0.0901)His+(0.0207)Thr+(-0.0018)Ala+(0.0303)Orn+(-0.1039)Trp;0.831,0.856,0.803,0.802,0.800,0.838,0.783,0.806,(8.8186)+(-0.0372)Asn+(-0.0823)His+(0.0227)Thr+(-0.0035)Ala+(0.0090)Pro+(-0.1060)Trp;0.831,0.866,0.774,0.775,0.785,0.782,0.740,0.771,(0.7655)+(0.0355)Ser+(-0.0001)Gln+(-0.0298)Arg+(0.0039)Pro+(0.0845)Phe+(-0.1766)Trp;0.831,0.858,0.761,0.734,0.729,0.820,0.854,0.784,(4.7864)+(-0.1264)Asn+(-0.0923)His+(0.0223)Thr+(-0.0458)Val+(0.1322)Ile+(0.0830)Phe;0.831,0.863,0.802,0.790,0.745,0.865,0.911,0.828,(4.2395)+(-0.1162)Asn+(-0.0092)Ala+(-0.0637)Cit+(-0.0581)Val+(0.1848)Ile+(0.0847)Phe;0.831,0.852,0.723,0.675,0.717,0.810,0.799,0.750,(-0.2633)+(0.0438)Ser+(-0.0041)Gly+(0.0042)Gln+(-0.1826)His+(0.0345)Ile+(0.0629)Phe;0.831,0.864,0.794,0.797,0.777,0.817,0.807,0.800,(0.9737)+(0.0312)Ser+(-0.0007)Gln+(-0.0061)Ala+(-0.0038)Val+(0.0919)Phe+(-0.1611)Trp;0.831,0.863,0.744,0.698,0.749,0.847,0.779,0.769,(1.9163)+(0.0540)Ser+(-0.1275)His+(0.0163)Tyr+(-0.2396)Met+(-0.0031)Lys+(0.0844)Ile;0.831,0.858,0.739,0.731,0.732,0.754,0.765,0.746,(0.6054)+(0.0336)Ser+(-0.0021)Gln+(-0.0445)Tyr+(0.0445)Ile+(0.0750)Phe+(-0.1748)Trp;0.831,0.857,0.818,0.804,0.821,0.844,0.828,0.824,(5.4606)+(0.0109)Gln+(-0.1145)His+(-0.0449)Cit+(-0.0021)Lys+(0.0287)Leu+(-0.1232)Trp;0.831,0.860,0.760,0.746,0.725,0.827,0.820,0.779,(3.0595)+(0.0297)Ser+(-0.0018)Pro+(-0.0381)Val+(-0.0108)Lys+(0.1533)Ile+(-0.1363)Trp;0.831,0.858,0.775,0.763,0.769,0.823,0.789,0.786,(2.8920)+(0.0426)Ser+(-0.1192)Asn+(0.0014)Thr+(0.0031)Orn+(0.0558)Ile+(-0.1522)Trp;0.831,0.857,0.788,0.794,0.794,0.828,0.730,0.787,(3.7234)+(0.0410)Ser+(

-0.0145)Arg+(0.0134)Pro+(-0.2031)Met+(0.0081)Lys+(-0.1391)Trp;0.831,0.857,0.819,0.825,0.817,0.846,0.787,0.819,(6.4929)+(-0.0014)Gly+(0.0101)Gln+(-0.1145)His+(0.0205)Thr+(-0.0227)Arg+(-0.1078)Trp;0.831,0.865,0.818,0.812,0.813,0.828,0.839,0.823,(6.4155)+(-0.0086)Asn+(-0.0988)His+(-0.0023)Ala+(-0.0101)Tyr+(0.1135)Phe+(-0.1092)Trp;0.831,0.863,0.801,0.803,0.804,0.793,0.798,0.800,(1.5186)+(0.0448)Ser+(-0.0074)Gly+(-0.0264)Arg+(-0.0063)Val+(0.0927)Phe+(-0.1633)Trp;0.831,0.861,0.802,0.791,0.799,0.839,0.808,0.809,(0.5673)+(0.0042)Gly+(0.0113)Gln+(-0.1591)His+(-0.2463)Met+(0.0079)Orn+(0.1301)Phe;0.831,0.862,0.751,0.758,0.744,0.756,0.744,0.750,(0.7886)+(0.0332)Ser+(-0.0016)Gln+(0.0050)Pro+(-0.0458)Tyr+(0.0955)Phe+(-0.1661)Trp;0.831,0.859,0.778,0.753,0.801,0.841,0.752,0.787,(5.2815)+(0.0432)Ser+(-0.1007)His+(-0.0479)Cit+(0.0147)Tyr+(0.0129)Val+(-0.1236)Trp;0.831,0.861,0.754,0.767,0.703,0.810,0.786,0.766,(-0.9613)+(0.0442)Ser+(-0.1629)Asn+(-0.0690)Tyr+(0.1574)Ile+(-0.0942)Leu+(0.1164)Phe;0.831,0.859,0.832,0.832,0.827,0.850,0.828,0.834,(5.6592)+(-0.0256)Asn+(0.0119)Gln+(-0.1127)His+(0.0099)Val+(-0.0553)Met+(-0.1056)Trp;0.831,0.858,0.815,0.813,0.784,0.851,0.861,0.827,(6.6612)+(-0.0159)Asn+(-0.0071)Ala+(-0.0119)Arg+(0.1638)Ile+(-0.0677)Leu+(-0.1262)Trp;0.831,0.856,0.804,0.801,0.805,0.837,0.788,0.808,(5.8825)+(0.0074)Gln+(-0.1177)His+(0.0106)Thr+(0.0209)Orn+(0.0007)Lys+(-0.1083)Trp;0.831,0.861,0.776,0.762,0.767,0.831,0.794,0.788,(2.9406)+(0.0443)Ser+(-0.1032)Asn+(0.0001)Pro+(-0.0063)Lys+(0.0613)Ile+(-0.1475)Trp;0.831,0.858,0.805,0.799,0.817,0.845,0.769,0.807,(9.0470)+(-0.0405)Asn+(-0.0731)His+(0.0244)Thr+(-0.0431)Cit+(0.0067)Pro+(-0.1145)Trp;0.831,0.860,0.799,0.794,0.807,0.863,0.751,0.804,(6.0120)+(0.0393)Ser+(-0.0801)His+(-0.0327)Cit+(-0.0791)Met+(0.0109)Lys+(-0.1021)Trp;0.831,0.867,0.829,0.817,0.839,0.828,0.841,0.831,(6.1700)+(-0.0931)His+(0.0087)Tyr+(0.0008)Val+(-0.1446)Met+(0.1269)Phe+(-0.1093)Trp;0.831,0.858,0.

801,0.789,0.829,0.840,0.749,0.802,(5.0724)+(0.0361)Ser+(-0.0052)Gly+(-0.1031)Cit+(-0.0111)Arg+(0.0497)Orn+(-0.1618)Trp;0.831,0.857,0.786,0.773,0.788,0.844,0.771,0.794,(6.0131)+(0.0399)Ser+(-0.0056)Gly+(-0.0988)His+(0.0115)Thr+(0.0027)Lys+(-0.1057)Trp;0.831,0.864,0.793,0.791,0.784,0.783,0.820,0.795,(1.0027)+(0.0406)Ser+(-0.0077)Gly+(-0.0025)Thr+(-0.0065)Val+(0.0797)Phe+(-0.1663)Trp;0.831,0.857,0.793,0.779,0.772,0.853,0.834,0.810,(3.1709)+(0.0021)Gly+(0.0096)Gln+(-0.1192)His+(-0.2037)Met+(0.1266)Ile+(-0.0417)Leu;0.831,0.856,0.707,0.676,0.693,0.796,0.755,0.730,(0.5378)+(0.0427)Ser+(-0.1619)His+(0.0027)Thr+(-0.0525)Tyr+(0.0413)Ile+(0.0949)Phe;0.831,0.855,0.765,0.744,0.791,0.799,0.740,0.768,(3.9676)+(0.0165)Asn+(-0.1487)His+(0.0473)Thr+(-0.0155)Arg+(-0.3309)Met+(0.1450)Phe;0.831,0.863,0.802,0.792,0.798,0.836,0.810,0.809,(0.3313)+(0.0046)Gly+(0.0114)Gln+(-0.1621)His+(-0.2592)Met+(0.0043)Lys+(0.1341)Phe;0.831,0.862,0.807,0.799,0.827,0.839,0.768,0.808,(7.1176)+(0.0357)Thr+(-0.0568)Cit+(-0.0298)Val+(-0.2227)Met+(0.0696)Leu+(-0.1465)Trp;0.831,0.857,0.766,0.740,0.787,0.808,0.760,0.774,(3.5336)+(0.0105)Asn+(-0.1517)His+(0.0415)Thr+(-0.3262)Met+(0.0067)Orn+(0.1403)Phe;0.831,0.857,0.781,0.761,0.758,0.826,0.850,0.799,(2.2486)+(0.0402)Ser+(-0.0064)Gly+(-0.0089)Ala+(-0.0009)Orn+(0.0726)Ile+(-0.1644)Trp;0.831,0.858,0.760,0.727,0.768,0.829,0.780,0.776,(4.6716)+(0.0421)Ser+(-0.1170)His+(0.0159)Tyr+(-0.0155)Val+(0.0537)Leu+(-0.1192)Trp;0.831,0.858,0.826,0.820,0.823,0.844,0.833,0.830,(5.6510)+(-0.0328)Asn+(0.0123)Gln+(-0.1210)His+(-0.0109)Arg+(0.0239)Leu+(-0.1110)Trp;0.831,0.850,0.776,0.757,0.728,0.858,0.865,0.802,(6.6278)+(-0.0874)Asn+(-0.0749)His+(0.0200)Thr+(-0.0061)Ala+(-0.0411)Val+(0.1535)Ile;0.831,0.863,0.795,0.767,0.803,0.831,0.831,0.808,(7.3562)+(-0.0908)His+(-0.1091)Met+(0.0219)Orn+(0.0067)Lys+(0.0633)Ile+(-0.1151)Trp;0.831,0.860,0.791,0.760,0.799,0.830,0.826,0.804,(7.2005)+(0.0217)Asn+(-0.0913)His+(-0.1096)Met+

(0.0235)Orn+(0.0683)Ile+(-0.1124)Trp;0.831,0.858,0.820,0.825,0.822,0.854,0.780,0.820,(6.4917)+(0.0098)Gln+(-0.1063)His+(0.0202)Thr+(-0.0302)Cit+(-0.0177)Arg+(-0.1105)Trp;0.831,0.856,0.817,0.806,0.819,0.838,0.827,0.823,(5.3605)+(0.0117)Gln+(-0.1315)His+(-0.0152)Arg+(0.0133)Tyr+(0.0239)Leu+(-0.1194)Trp;0.831,0.862,0.747,0.706,0.748,0.842,0.790,0.771,(2.2998)+(0.0559)Ser+(-0.0028)Gly+(-0.1235)His+(-0.2081)Met+(-0.0028)Lys+(0.0833)Ile;0.831,0.858,0.769,0.761,0.745,0.818,0.803,0.782,(2.4044)+(0.0327)Ser+(-0.0109)Thr+(-0.0113)Tyr+(0.1486)Ile+(-0.0645)Leu+(-0.1426)Trp;0.831,0.858,0.800,0.785,0.803,0.828,0.811,0.807,(5.2809)+(0.0012)Gly+(0.0087)Gln+(-0.1306)His+(0.0174)Orn+(0.0229)Leu+(-0.1172)Trp;0.831,0.857,0.804,0.799,0.836,0.842,0.726,0.801,(7.1450)+(0.0199)Thr+(-0.1004)Cit+(0.0076)Pro+(-0.1619)Met+(0.0436)Orn+(-0.1482)Trp;0.831,0.853,0.713,0.679,0.706,0.802,0.749,0.734,(0.5377)+(0.0457)Ser+(-0.1503)His+(-0.0441)Cit+(-0.0516)Tyr+(0.0454)Ile+(0.0984)Phe;0.831,0.853,0.832,0.836,0.822,0.852,0.826,0.834,(6.0609)+(-0.0593)Asn+(0.0110)Gln+(-0.1046)His+(-0.0004)Ala+(0.0089)Lys+(-0.1025)Trp;0.831,0.851,0.827,0.832,0.819,0.849,0.816,0.829,(5.9610)+(-0.0621)Asn+(0.0013)Gly+(0.0107)Gln+(-0.1056)His+(0.0091)Lys+(-0.1028)Trp;0.831,0.861,0.806,0.803,0.812,0.868,0.755,0.809,(6.8130)+(0.0428)Ser+(-0.0422)Asn+(-0.0681)His+(-0.0354)Cit+(-0.0160)Met+(-0.0958)Trp;0.831,0.858,0.782,0.765,0.816,0.830,0.722,0.783,(3.9878)+(0.0289)Ser+(0.0003)Gln+(-0.1190)Cit+(0.0439)Orn+(0.0130)Leu+(-0.1801)Trp;0.831,0.858,0.750,0.716,0.729,0.852,0.810,0.777,(3.2006)+(0.0478)Ser+(-0.0629)Asn+(-0.1274)His+(-0.0063)Ala+(-0.0077)Tyr+(0.0739)Ile;0.831,0.858,0.815,0.812,0.810,0.840,0.817,0.820,(5.6417)+(0.0092)Gln+(-0.1217)His+(-0.0027)Ala+(0.0087)Val+(0.0210)Orn+(-0.1104)Trp;0.831,0.857,0.835,0.832,0.833,0.858,0.833,0.839,(5.3646)+(0.0107)Gln+(-0.1108)His+(0.0325)Tyr+(-0.1347)Met+(0.0099)Lys+(-0.1105)Trp;0.831,0.856,0.836,0.842,0.828,0.854,0.827,

0.838,(5.9333)+(-0.0456)Asn+(0.0112)Gln+(-0.1015)His+(-0.0616)Met+(0.0112)Lys+(-0.1013)Trp;0.831,0.860,0.787,0.779,0.775,0.831,0.803,0.797,(2.3436)+(0.0409)Ser+(-0.1300)Asn+(0.0028)Gln+(-0.0002)Pro+(0.0563)Ile+(-0.1535)Trp;0.831,0.857,0.793,0.798,0.783,0.843,0.759,0.796,(3.7390)+(0.0399)Ser+(-0.0042)Ala+(0.0153)Pro+(0.0024)Val+(-0.1775)Met+(-0.1326)Trp;0.831,0.855,0.802,0.797,0.803,0.828,0.797,0.806,(5.5510)+(0.0081)Gln+(-0.1173)His+(0.0055)Pro+(0.0204)Orn+(0.0029)Lys+(-0.1083)Trp;0.831,0.858,0.805,0.810,0.799,0.856,0.767,0.808,(4.6834)+(0.0306)Ser+(0.0083)Gln+(-0.1098)His+(0.0004)Ala+(-0.0177)Arg+(-0.0957)Trp;0.831,0.858,0.818,0.821,0.819,0.848,0.787,0.819,(6.2759)+(0.0101)Gln+(-0.1181)His+(0.0185)Thr+(-0.0231)Arg+(0.0105)Tyr+(-0.1112)Trp;0.831,0.867,0.794,0.782,0.806,0.826,0.779,0.798,(5.3457)+(0.0071)Gly+(-0.0988)His+(-0.0639)Cit+(0.0010)Arg+(0.1240)Phe+(-0.1248)Trp;0.831,0.862,0.759,0.772,0.748,0.758,0.747,0.756,(0.5001)+(0.0306)Ser+(0.0050)Pro+(-0.0464)Tyr+(-0.0034)Leu+(0.0970)Phe+(-0.1662)Trp;0.831,0.857,0.779,0.758,0.788,0.832,0.780,0.789,(5.2754)+(0.0460)Ser+(-0.0044)Gly+(-0.1066)His+(0.0112)Val+(0.0007)Lys+(-0.1109)Trp;0.831,0.856,0.741,0.712,0.750,0.818,0.746,0.756,(1.3393)+(0.0568)Ser+(-0.0950)Asn+(-0.1482)His+(-0.0179)Arg+(0.0162)Orn+(0.1084)Phe;0.831,0.855,0.823,0.826,0.814,0.844,0.817,0.825,(6.0280)+(-0.0526)Asn+(0.0010)Gly+(0.0109)Gln+(-0.1039)His+(0.0075)Pro+(-0.1011)Trp;0.831,0.852,0.816,0.820,0.801,0.844,0.816,0.820,(5.9363)+(0.0000)Gly+(0.0095)Gln+(-0.1071)His+(-0.0035)Ala+(0.0102)Pro+(-0.1036)Trp;0.831,0.860,0.750,0.746,0.737,0.760,0.780,0.756,(0.0654)+(0.0330)Ser+(-0.0052)Thr+(-0.0415)Tyr+(0.0445)Ile+(0.0728)Phe+(-0.1761)Trp;0.831,0.859,0.749,0.733,0.714,0.821,0.813,0.770,(3.4747)+(0.0298)Ser+(-0.0026)Gln+(-0.0086)Tyr+(-0.0399)Val+(0.1512)Ile+(-0.1388)Trp;0.831,0.864,0.811,0.797,0.806,0.826,0.844,0.818,(6.3768)+(-0.1056)His+(-0.0032)Ala+(-0.0098)Tyr+(0.0129)Leu+(0.1027)Phe+(-0.1

166)Trp;0.831,0.863,0.743,0.698,0.750,0.844,0.779,0.768,(1.8445)+(0.0532)Ser+(0.0016)Asn+(-0.1291)His+(0.0154)Tyr+(-0.2485)Met+(0.0830)Ile;0.831,0.862,0.779,0.777,0.708,0.870,0.866,0.805,(-0.9715)+(0.0457)Ser+(-0.1663)Asn+(-0.0114)Ala+(0.1751)Ile+(-0.0951)Leu+(0.0883)Phe;0.831,0.860,0.765,0.749,0.780,0.796,0.754,0.770,(3.9121)+(-0.1461)His+(0.0443)Thr+(-0.0252)Tyr+(-0.2906)Met+(-0.0008)Lys+(0.1501)Phe;0.831,0.859,0.795,0.783,0.788,0.837,0.812,0.805,(5.9105)+(0.0083)Thr+(-0.0783)Cit+(-0.0014)Pro+(0.1420)Ile+(-0.0563)Leu+(-0.1565)Trp;0.831,0.856,0.799,0.786,0.823,0.839,0.756,0.801,(4.7177)+(0.0356)Ser+(-0.0048)Gly+(-0.0033)Thr+(-0.1097)Cit+(0.0494)Orn+(-0.1625)Trp;0.831,0.858,0.817,0.818,0.832,0.859,0.754,0.816,

(9.4774)+(-0.0221)Asn+(-0.0696)His+(0.0335)Thr+(-0.0390)Cit+(-0.0957)Met+(-0.1057)Trp;0.831,0.857,0.779,0.772,0.782,0.846,0.745,0.786,(5.8701)+(0.0323)Ser+(-0.1009)His+(0.0100)Thr+(-0.0008)Ala+(0.0044)Lys+(-0.1040)Trp;0.831,0.867,0.798,0.793,0.798,0.818,0.795,0.801,(5.5805)+(0.0048)Gly+(-0.1088)His+(-0.0069)Arg+(-0.0105)Tyr+(0.1166)Phe+(-0.1104)Trp;0.831,0.864,0.798,0.801,0.793,0.814,0.792,0.800,(1.0113)+(0.0358)Ser+(-0.0062)Ala+(-0.0251)Arg+(0.0054)Leu+(0.0944)Phe+(-0.1659)Trp;0.831,0.858,0.780,0.764,0.736,0.839,0.868,0.802,(3.9366)+(-0.1110)His+(-0.0082)Ala+(0.0010)Pro+(0.1243)Ile+(-0.0602)Leu+(0.0763)Phe;0.831,0.854,0.803,0.803,0.799,0.831,0.793,0.806,(5.7760)+(0.0080)Gln+(-0.1167)His+(0.0107)Thr+(0.0056)Pro+(0.0021)Lys+(-0.1112)Trp;0.831,0.866,0.791,0.789,0.786,0.781,0.814,0.793,(1.0948)+(0.0390)Ser+(-0.0080)Gly+(-0.0073)Val+(0.0041)Orn+(0.0773)Phe+(-0.1675)Trp;0.831,0.858,0.731,0.690,0.734,0.822,0.767,0.753,(0.7838)+(0.0597)Ser+(-0.0932)Asn+(-0.1517)His+(-0.0174)Arg+(0.0381)Ile+(0.0914)Phe;0.831,0.860,0.794,0.798,0.774,0.796,0.821,0.797,(1.1673)+(0.0435)Ser+(-0.0084)Gly+(-0.0044)Ala+(-0.0390)Tyr+(0.1003)Phe+(-0.1542)Trp;0.831,0.860,0.726,0.681,0.726,

0.819,0.779,0.751,(0.7039)+(0.0562)Ser+(-0.1092)Asn+(-0.1552)His+(0.0054)Orn+(0.0360)Ile+(0.0863)Phe;0.831,0.864,0.786,0.777,0.773,0.836,0.803,0.797,(2.4040)+(0.0419)Ser+(-0.1179)Asn+(0.0029)Gln+(-0.0066)Lys+(0.0601)Ile+(-0.1492)Trp;0.831,0.860,0.806,0.799,0.793,0.833,0.832,0.814,(5.6209)+(-0.1771)Met+(0.0078)Orn+(0.0085)Lys+(0.1536)Ile+(-0.0674)Leu+(-0.1305)Trp;0.831,0.858,0.807,0.804,0.781,0.845,0.844,0.818,(6.2781)+(-0.0077)Ala+(-0.0191)Arg+(0.0186)Orn+(0.1643)Ile+(-0.0710)Leu+(-0.1289)Trp;0.831,0.857,0.789,0.778,0.782,0.839,0.801,0.800,(5.6861)+(0.0040)Gly+(-0.0811)Cit+(-0.0014)Lys+(0.1470)Ile+(-0.0575)Leu+(-0.1498)Trp;0.831,0.857,0.781,0.761,0.758,0.826,0.850,0.799,(2.2384)+(0.0400)Ser+(-0.0064)Gly+(0.0000)Gln+(-0.0089)Ala+(0.0723)Ile+(-0.1645)Trp;0.831,0.858,0.779,0.752,0.757,0.850,0.845,0.801,(5.9915)+(-0.0677)His+(0.0015)Pro+(-0.0444)Val+(-0.2186)Met+(0.0313)Orn+(0.1640)Ile;0.831,0.855,0.838,0.839,0.830,0.860,0.836,0.841,(6.1565)+(-0.0510)Asn+(0.0115)Gln+(-0.1065)His+(-0.0010)Ala+(0.0210)Tyr+(-0.1040)Trp;0.831,0.855,0.809,0.795,0.810,0.832,0.828,0.816,(5.3011)+(0.0100)Gln+(-0.1308)His+(0.0090)Tyr+(-0.0010)Lys+(0.0249)Leu+(-0.1197)Trp;0.831,0.854,0.752,0.733,0.751,0.821,0.756,0.765,(1.5771)+(0.0585)Ser+(-0.1010)Asn+(-0.1374)His+(-0.0157)Arg+(-0.0065)Val+(0.1268)Phe;0.831,0.865,0.845,0.858,0.836,0.814,0.852,0.840,(3.3873)+(-0.1046)Asn+(0.0058)Gln+(0.0046)Pro+(-0.0096)Val+(0.0876)Phe+(-0.1475)Trp;0.831,0.857,0.799,0.789,0.821,0.844,0.749,0.801,(5.0265)+(0.0351)Ser+(-0.0055)Gly+(-0.1086)Cit+(-0.0132)Tyr+(0.0504)Orn+(-0.1577)Trp;0.831,0.856,0.733,0.691,0.713,0.850,0.804,0.765,(2.3163)+(0.0405)Ser+(-0.1440)His+(-0.0085)Ala+(0.0044)Pro+(0.0092)Orn+(0.0638)Ile;0.831,0.855,0.811,0.805,0.810,0.829,0.816,0.815,(5.3660)+(0.0098)Gln+(-0.1244)His+(0.0044)Pro+(0.0039)Tyr+(0.0080)Val+(-0.1151)Trp;0.831,0.861,0.795,0.765,0.803,0.830,0.830,0.807,(7.4869)+(-0.0869)His+(0.0015)Pro+(-0.0954)Met+(0.0239)Orn+(0.06

42)Ile+(-0.1124)Trp;0.831,0.860,0.798,0.788,0.796,0.829,0.805,0.805,(0.4135)+(0.0046)Gly+(0.0115)Gln+(-0.1572)His+(0.0056)Pro+(-0.2678)Met+(0.1307)Phe;0.831,0.858,0.769,0.739,0.786,0.832,0.770,0.782,(5.0559)+(0.0471)Ser+(-0.0023)Gly+(-0.1020)His+(-0.0398)Cit+(0.0319)Leu+(-0.1212)Trp;0.831,0.865,0.797,0.801,0.778,0.817,0.810,0.802,(0.8629)+(0.0294)Ser+(-0.0063)Ala+(-0.0044)Val+(0.0054)Orn+(0.0888)Phe+(-0.1616)Trp;0.831,0.864,0.820,0.827,0.824,0.799,0.808,0.814,(5.0266)+(-0.1158)Asn+(0.0206)Thr+(0.0035)Pro+(-0.0117)Val+(0.0934)Phe+(-0.1469)Trp;0.831,0.861,0.827,0.813,0.832,0.845,0.842,0.833,(4.2090)+(0.0071)Gln+(-0.0781)Cit+(0.0022)Arg+(-0.1556)Met+(0.0714)Ile+(-0.1617)Trp;0.831,0.861,0.777,0.759,0.754,0.838,0.830,0.795,(2.3514)+(0.0361)Ser+(-0.0087)Ala+(0.0025)Tyr+(-0.0129)Lys+(0.0819)Ile+(-0.1531)Trp;0.831,0.858,0.769,0.744,0.777,0.838,0.770,0.782,(5.0354)+(0.0439)Ser+(-0.1110)His+(-0.0021)Ala+(-0.0076)Arg+(0.0331)Leu+(-0.1107)Trp;0.831,0.858,0.820,0.825,0.821,0.853,0.778,0.819,(5.9653)+(0.0440)Ser+(-0.0671)Asn+(-0.0083)Gly+(0.0199)Thr+(-0.1341)Met+(-0.1383)Trp;0.831,0.857,0.827,0.826,0.822,0.842,0.828,0.830,(5.7134)+(-0.0495)Asn+(0.0112)Gln+(-0.1160)His+(0.0073)Val+(0.0058)Lys+(-0.1105)Trp;0.831,0.854,0.736,0.702,0.741,0.814,0.759,0.754,(1.1891)+(0.0543)Ser+(-0.1079)Asn+(-0.1514)His+(0.0135)Orn+(0.0000)Leu+(0.1050)Phe;0.831,0.852,0.735,0.694,0.712,0.847,0.809,0.766,(2.2675)+(0.0434)Ser+(-0.1391)His+(-0.0037)Thr+(-0.0085)Ala+(0.0054)Pro+(0.0667)Ile;0.831,0.858,0.750,0.712,0.734,0.857,0.806,0.777,(3.0367)+(0.0460)Ser+(-0.1178)His+(-0.0079)Ala+(-0.0516)Cit+(-0.0109)Lys+(0.0843)Ile;0.831,0.858,0.778,0.771,0.789,0.845,0.725,0.783,(6.1786)+(0.0338)Ser+(-0.1019)His+(0.0143)Thr+(-0.0187)Arg+(0.0076)Lys+(-0.1055)Trp;0.831,0.856,0.810,0.814,0.817,0.850,0.757,0.810,(9.0316)+(-0.0187)Asn+(0.0004)Gly+(-0.0805)His+(0.0312)Thr+(-0.1001)Met+(-0.1022)Trp;0.831,0.861,0.811,0.811,0.828,0.860,0.737,0.809,(6.2204)+(0.0

376)Ser+(-0.1043)Asn+(0.0135)Thr+(-0.0731)Cit+(0.0097)Tyr+(-0.1460)Tr
p;0.831,0.857,0.821,0.814,0.812,0.844,0.844,0.828,(5.8308)+(-0.0492)A
sn+(0.0112)Gln+(-0.1139)His+(-0.0142)Val+(0.0459)Leu+(-0.1083)Trp;0.8
31,0.857,0.834,0.832,0.830,0.863,0.823,0.837,(5.5070)+(0.0022)Gly+(0.
0110)Gln+(-0.1098)His+(0.0365)Tyr+(-0.1137)Met+(-0.1053)Trp;0.831,0.8
57,0.830,0.826,0.828,0.848,0.832,0.833,(5.7175)+(-0.0443)Asn+(0.0115)
Gln+(-0.1183)His+(0.0128)Tyr+(0.0079)Val+(-0.1124)Trp;0.831,0.856,0.7
97,0.794,0.813,0.841,0.742,0.797,(8.6919)+(-0.0884)His+(0.0296)Thr+(-
0.0133)Arg+(-0.1089)Met+(0.0318)Orn+(-0.1018)Trp;0.831,0.860,0.818,0.
817,0.817,0.799,0.839,0.818,(1.1845)+(0.0014)Gly+(0.0056)Gln+(-0.2812
)Met+(0.0527)Ile+(0.0909)Phe+(-0.1575)Trp;0.831,0.858,0.794,0.777,0.7
96,0.840,0.803,0.804,(5.8347)+(-0.0997)Cit+(-0.0019)Pro+(0.0370)Orn+(
0.1364)Ile+(-0.0577)Leu+(-0.1524)Trp;0.831,0.854,0.805,0.794,0.803,0.
833,0.818,0.812,(5.2618)+(0.0014)Gly+(0.0097)Gln+(-0.1292)His+(-0.000
2)Lys+(0.0257)Leu+(-0.1168)Trp;0.831,0.861,0.804,0.799,0.790,0.833,0.
827,0.812,(5.4605)+(0.0018)Gly+(-0.1812)Met+(0.0095)Lys+(0.1572)Ile+(
-0.0678)Leu+(-0.1311)Trp;0.831,0.860,0.765,0.741,0.759,0.837,0.788,0.
781,(5.5363)+(0.0030)Gly+(-0.1120)His+(0.0261)Thr+(-0.2417)Met+(0.123
7)Ile+(-0.0373)Leu;0.831,0.857,0.807,0.799,0.830,0.840,0.753,0.805,(8
.8891)+(-0.0842)His+(0.0328)Thr+(-0.0432)Cit+(0.0101)Val+(-0.1247)Met
+(-0.1149)Trp;0.831,0.856,0.779,0.764,0.788,0.844,0.755,0.788,(5.5086
)+(0.0424)Ser+(-0.1056)His+(-0.0017)Ala+(-0.0087)Arg+(0.0131)Val+(-0.
1063)Trp;0.831,0.861,0.811,0.784,0.806,0.849,0.866,0.826,(8.0098)+(-0
.0686)His+(-0.0065)Ala+(-0.0533)Cit+(0.0181)Tyr+(0.0798)Ile+(-0.1303)
Trp;0.831,0.855,0.784,0.770,0.796,0.822,0.768,0.789,(7.5351)+(-0.1023
)His+(0.0141)Thr+(0.0045)Pro+(0.0255)Orn+(0.0027)Lys+(-0.1111)Trp;0.8
31,0.856,0.784,0.761,0.794,0.830,0.789,0.794,(7.7643)+(-0.1138)His+(0
.0197)Thr+(-0.0036)Ala+(0.0238)Orn+(0.0251)Leu+(-0.1208)Trp;0.831,0.8

69,0.830,0.817,0.839,0.828,0.847,0.833,(6.0077)+(-0.0936)His+(0.0044)Arg+(0.0091)Tyr+(-0.1519)Met+(0.1284)Phe+(-0.1086)Trp;0.831,0.863,0.809,0.796,0.815,0.867,0.792,0.817,(5.8243)+(0.0478)Ser+(-0.0038)Gly+(-0.0854)His+(0.0399)Tyr+(-0.1182)Met+(-0.1057)Trp;0.831,0.859,0.811,0.803,0.826,0.830,0.789,0.812,(4.6574)+(0.0126)Thr+(-0.0079)Ala+(-0.1286)Cit+(0.0455)Orn+(0.0922)Phe+(-0.1774)Trp;0.831,0.858,0.766,0.751,0.787,0.801,0.740,0.769,(4.1904)+(-0.1385)His+(0.0457)Thr+(-0.0388)Cit+(-0.0252)Tyr+(-0.2908)Met+(0.1517)Phe;0.831,0.864,0.803,0.811,0.820,0.792,0.757,0.795,(5.7150)+(-0.0935)Asn+(0.0316)Thr+(-0.0916)Cit+(-0.0395)Tyr+(0.1167)Phe+(-0.1654)Trp;0.831,0.857,0.798,0.775,0.786,0.838,0.853,0.813,(7.6855)+(0.0113)Asn+(-0.0881)His+(-0.0050)Ala+(-0.0015)Arg+(0.0752)Ile+(-0.1173)Trp;0.831,0.851,0.755,0.727,0.737,0.833,0.809,0.777,(0.2766)+(0.0435)Ser+(-0.0038)Gly+(0.0048)Gln+(-0.1708)His+(-0.0048)Ala+(0.0929)Phe;0.831,0.861,0.806,0.798,0.808,0.844,0.796,0.812,(0.3620)+(0.0060)Gly+(0.0124)Gln+(-0.1516)His+(-0.0490)Cit+(-0.2464)Met+(0.1407)Phe;0.831,0.860,0.814,0.816,0.813,0.841,0.791,0.815,(5.1109)+(0.0041)Gln+(0.0316)Thr+(-0.0353)Val+(-0.2662)Met+(0.0738)Leu+(-0.1450)Trp;0.831,0.859,0.795,0.787,0.807,0.826,0.769,0.797,(3.7584)+(0.0457)Ser+(-0.0084)Gly+(0.0189)Thr+(-0.2362)Met+(0.0232)Leu+(-0.1554)Trp;0.831,0.858,0.782,0.778,0.790,0.853,0.726,0.787,(6.4947)+(0.0338)Ser+(-0.0963)His+(0.0163)Thr+(-0.0003)Ala+(-0.0155)Arg+(-0.1004)Trp;0.831,0.855,0.742,0.715,0.738,0.816,0.763,0.758,(1.3349)+(0.0572)Ser+(-0.1206)Asn+(-0.1379)His+(0.0053)Pro+(-0.0087)Val+(0.1211)Phe;0.831,0.854,0.747,0.708,0.731,0.849,0.808,0.774,(2.8207)+(0.0500)Ser+(-0.0034)Gly+(-0.1359)His+(-0.0070)Ala+(-0.0155)Arg+(0.0720)Ile;0.831,0.853,0.733,0.689,0.724,0.835,0.795,0.761,(2.7854)+(0.0480)Ser+(-0.0051)Gly+(-0.1281)His+(-0.0107)Lys+(0.1046)Ile+(-0.0311)Leu;0.831,0.857,0.794,0.781,0.809,0.830,0.772,0.798,(8.2619)+(-0.0353)Asn+(-0.0984)His+(0.

0200)Thr+(0.0040)Val+(0.0265)Orn+(-0.1107)Trp;0.830,0.856,0.755,0.747,0.710,0.800,0.839,0.774,(3.8055)+(-0.1008)His+(-0.0507)Tyr+(-0.0269)Val+(0.1404)Ile+(-0.0292)Leu+(0.0969)Phe;0.830,0.861,0.811,0.807,0.824,0.845,0.770,0.812,(3.1571)+(0.0375)Ser+(0.0038)Gln+(-0.0715)Cit+(-0.1694)Met+(0.0254)Leu+(-0.1523)Trp;0.830,0.860,0.736,0.696,0.726,0.840,0.787,0.762,(2.9659)+(0.0438)Ser+(-0.0808)Asn+(-0.1224)His+(0.0149)Orn+(0.1047)Ile+(-0.0360)Leu;0.830,0.854,0.805,0.805,0.800,0.833,0.794,0.808,(5.8548)+(0.0081)Gln+(-0.1160)His+(0.0114)Thr+(0.0055)Pro+(0.0011)Tyr+(-0.1103)Trp;0.830,0.853,0.748,0.721,0.751,0.826,0.760,0.764,(1.6651)+(0.0582)Ser+(-0.0960)Asn+(-0.1369)His+(-0.0362)Cit+(-0.0077)Lys+(0.1190)Phe;0.830,0.863,0.831,0.826,0.839,0.822,0.836,0.831,(5.0566)+(-0.0063)Ala+(-0.0805)Cit+(0.0133)Pro+(-0.1445)Met+(0.1218)Phe+(-0.1484)Trp;0.830,0.854,0.816,0.816,0.814,0.831,0.812,0.818,(5.5530)+(0.0115)Gln+(-0.1222)His+(-0.0158)Arg+(0.0060)Pro+(0.0078)Val+(-0.1116)Trp;0.830,0.854,0.768,0.748,0.797,0.806,0.736,0.771,(4.2839)+(-0.1400)His+(0.0470)Thr+(-0.0329)Cit+(-0.0094)Arg+(-0.3183)Met+(0.1446)Phe;0.830,0.863,0.792,0.792,0.777,0.802,0.819,0.797,(3.5855)+(0.0017)Gly+(-0.0270)Arg+(0.1523)Ile+(-0.0808)Leu+(0.0777)Phe+(-0.1503)Trp;0.830,0.862,0.848,0.861,0.849,0.811,0.839,0.840,(1.8438)+(-0.0473)Asn+(0.0013)Gly+(0.0074)Gln+(-0.2125)

Met+(0.1116)Phe+(-0.1455)Trp;0.830,0.862,0.824,0.816,0.834,0.863,0.796,0.827,(6.0424)+(0.0091)Gln+(-0.0889)His+(-0.0721)Cit+(-0.0559)Met+(0.0476)Orn+(-0.1057)Trp;0.830,0.861,0.759,0.744,0.725,0.826,0.820,0.779,(3.1195)+(0.0293)Ser+(-0.0048)Tyr+(-0.0378)Val+(-0.0103)Lys+(0.1507)Ile+(-0.1353)Trp;0.830,0.857,0.823,0.826,0.811,0.851,0.819,0.827,(5.8509)+(0.0106)Gln+(-0.0995)His+(-0.0022)Ala+(0.0115)Pro+(-0.0830)Met+(-0.0982)Trp;0.830,0.857,0.806,0.799,0.795,0.834,0.832,0.815,(6.0005)+(-0.0070)Asn+(-0.1515)Met+(0.0129)Orn+(0.1482)Ile+(-0.0621)Leu+(-0.

1241)Trp;0.830,0.857,0.806,0.807,0.814,0.845,0.760,0.806,(8.3647)+(0.0005)Gly+(-0.0894)His+(0.0283)Thr+(-0.1380)Met+(0.0108)Lys+(-0.1071)Trp;0.830,0.863,0.809,0.811,0.803,0.809,0.818,0.810,(1.4914)+(0.0444)Ser+(-0.0067)Gly+(-0.0055)Ala+(-0.0241)Arg+(0.0936)Phe+(-0.1610)Trp;0.830,0.854,0.819,0.820,0.806,0.847,0.823,0.824,(5.8920)+(0.0095)Gln+(-0.1106)His+(-0.0040)Ala+(0.0095)Pro+(0.0119)Tyr+(-0.1076)Trp;0.830,0.862,0.827,0.825,0.825,0.799,0.859,0.827,(1.2321)+(0.0064)Gln+(-0.2786)Met+(-0.0114)Orn+(0.0560)Ile+(0.0952)Phe+(-0.1599)Trp;0.830,0.860,0.791,0.785,0.788,0.845,0.777,0.799,(3.2139)+(0.0399)Ser+(-0.0311)Val+(-0.2144)Met+(0.0239)Orn+(0.0685)Leu+(-0.1341)Trp;0.830,0.860,0.812,0.795,0.803,0.828,0.866,0.823,(4.4027)+(-0.0100)Ala+(-0.0983)Cit+(0.0039)Arg+(0.0699)Ile+(0.0810)Phe+(-0.1760)Trp;0.830,0.851,0.813,0.817,0.803,0.846,0.799,0.816,(6.0557)+(0.0081)Gln+(-0.1133)His+(0.0135)Thr+(-0.0016)Ala+(0.0028)Lys+(-0.1077)Trp;0.830,0.859,0.767,0.742,0.789,0.808,0.761,0.775,(3.7373)+(-0.1490)His+(0.0421)Thr+(-0.3145)Met+(0.0073)Orn+(-0.0016)Lys+(0.1394)Phe;0.830,0.852,0.813,0.815,0.798,0.841,0.817,0.818,(5.7630)+(0.0090)Gln+(-0.1106)His+(-0.0039)Ala+(0.0102)Pro+(0.0057)Lys+(-0.1079)Trp;0.830,0.859,0.824,0.823,0.821,0.847,0.816,0.827,(5.3456)+(0.0017)Gly+(0.0110)Gln+(-0.1177)His+(0.0111)Val+(-0.0754)Met+(-0.1065)Trp;0.830,0.856,0.819,0.824,0.825,0.866,0.758,0.818,(6.0625)+(0.0405)Ser+(-0.0670)Asn+(-0.0629)Cit+(0.0046)Arg+(-0.0517)Met+(-0.1290)Trp;0.830,0.856,0.785,0.765,0.788,0.829,0.798,0.795,(7.8866)+(-0.1065)His+(0.0213)Thr+(-0.0047)Ala+(0.0062)Pro+(0.0255)Leu+(-0.1217)Trp;0.830,0.864,0.841,0.844,0.844,0.822,0.839,0.837,(3.5413)+(-0.0917)Asn+(0.0080)Gln+(-0.0964)Cit+(0.0045)Pro+(0.0887)Phe+(-0.1677)Trp;0.830,0.861,0.768,0.741,0.764,0.839,0.801,0.786,(5.7347)+(-0.1123)His+(0.0258)Thr+(-0.2355)Met+(0.0141)Orn+(0.1213)Ile+(-0.0400)Leu;0.830,0.856,0.807,0.785,0.812,0.847,0.824,0.817,(6.3655)+(-0.0088)Ala+(-0

.1137)Cit+(0.0019)Arg+(0.0439)Orn+(0.0683)Ile+(-0.1618)Trp;0.830,0.85
6,0.798,0.782,0.776,0.855,0.845,0.815,(3.2907)+(-0.0022)Asn+(0.0101)G
ln+(-0.1180)His+(-0.1983)Met+(0.1259)Ile+(-0.0425)Leu;0.830,0.855,0.8
06,0.792,0.813,0.833,0.813,0.813,(4.4551)+(0.0029)Gly+(0.0055)Gln+(-0
.0979)Cit+(-0.0114)Lys+(0.0723)Ile+(-0.1750)Trp;0.830,0.863,0.796,0.7
80,0.813,0.820,0.789,0.800,(6.1823)+(-0.0873)His+(-0.0878)Cit+(-0.021
4)Tyr+(0.0493)Orn+(0.1118)Phe+(-0.1263)Trp;0.830,0.855,0.821,0.827,0.
837,0.851,0.749,0.816,(5.7438)+(0.0055)Gln+(0.0224)Thr+(-0.0717)Cit+(
0.0097)Pro+(-0.1954)Met+(-0.1483)Trp;0.830,0.858,0.772,0.749,0.791,0.
812,0.766,0.779,(3.8415)+(-0.1468)His+(0.0430)Thr+(-0.0010)Ala+(-0.31
34)Met+(-0.0008)Lys+(0.1428)Phe;0.830,0.855,0.774,0.747,0.792,0.813,0
.779,0.783,(7.4526)+(-0.1165)His+(0.0180)Thr+(0.0015)Pro+(0.0215)Orn+
(0.0216)Leu+(-0.1231)Trp;0.830,0.853,0.737,0.701,0.725,0.838,0.786,0.
763,(1.8773)+(0.0353)Ser+(0.0044)Gln+(-0.1434)His+(-0.0116)Lys+(0.096
2)Ile+(-0.0262)Leu;0.830,0.856,0.748,0.723,0.716,0.855,0.805,0.775,(3
.7392)+(0.0488)Ser+(-0.1014)Asn+(-0.0825)His+(-0.0151)Arg+(-0.0381)Va
l+(0.1487)Ile;0.830,0.856,0.802,0.796,0.800,0.850,0.785,0.808,(6.4956
)+(0.0484)Ser+(-0.0470)Asn+(-0.0051)Gly+(-0.0788)His+(0.0009)Ala+(-0.
0959)Trp;0.830,0.856,0.815,0.804,0.809,0.842,0.836,0.823,(5.4887)+(0.
0101)Gln+(-0.1251)His+(-0.0025)Ala+(0.0003)Lys+(0.0270)Leu+(-0.1152)T
rp;0.830,0.865,0.758,0.747,0.763,0.778,0.766,0.763,(0.2196)+(0.0377)S
er+(-0.0012)Thr+(-0.0318)Arg+(0.0469)Ile+(0.0641)Phe+(-0.1864)Trp;0.8
30,0.861,0.816,0.805,0.829,0.855,0.789,0.819,(6.0559)+(0.0083)Gln+(-0
.0939)His+(-0.0751)Cit+(0.0474)Orn+(-0.0002)Lys+(-0.1127)Trp;0.830,0.
859,0.795,0.787,0.824,0.849,0.714,0.794,(5.2026)+(0.0295)Ser+(-0.1158
)Cit+(-0.0036)Tyr+(0.0554)Orn+(-0.0088)Lys+(-0.1525)Trp;0.830,0.859,0
.778,0.764,0.784,0.843,0.753,0.786,(5.6329)+(0.0338)Ser+(-0.1045)His+
(0.0078)Thr+(0.0126)Tyr+(0.0032)Lys+(-0.1084)Trp;0.830,0.857,0.801,0.

777,0.794,0.838,0.851,0.815,(7.5356)+(0.0283)Asn+(-0.0826)His+(-0.004
0)Ala+(-0.0885)Met+(0.0809)Ile+(-0.1110)Trp;0.830,0.856,0.823,0.813,0
.817,0.848,0.843,0.830,(5.3931)+(0.0110)Gln+(-0.1132)His+(-0.0139)Val
+(-0.0978)Met+(0.0500)Leu+(-0.1058)Trp;0.830,0.856,0.808,0.785,0.815,
0.847,0.826,0.818,(6.3818)+(-0.0089)Ala+(-0.1131)Cit+(0.0035)Tyr+(0.0
439)Orn+(0.0682)Ile+(-0.1627)Trp;0.830,0.862,0.791,0.786,0.783,0.837,
0.791,0.799,(2.3865)+(0.0422)Ser+(-0.1145)Asn+(0.0036)Gln+(-0.0170)Ar
g+(0.0583)Ile+(-0.1526)Trp;0.830,0.861,0.807,0.802,0.792,0.833,0.835,
0.815,(5.7030)+(0.0015)Pro+(-0.1797)Met+(0.0097)Lys+(0.1538)Ile+(-0.0
674)Leu+(-0.1311)Trp;0.830,0.860,0.779,0.764,0.759,0.838,0.813,0.794,
(2.5781)+(0.0386)Ser+(-0.0080)Ala+(-0.0164)Arg+(-0.0084)Lys+(0.0823)I
le+(-0.1520)Trp;0.830,0.859,0.795,0.778,0.799,0.841,0.798,0.804,(6.15
54)+(-0.0944)Cit+(-0.0094)Arg+(0.0390)Orn+(0.1366)Ile+(-0.0592)Leu+(-
0.1497)Trp;0.830,0.860,0.786,0.778,0.775,0.830,0.801,0.796,(2.3458)+(
0.0409)Ser+(-0.1306)Asn+(0.0027)Gln+(0.0013)Orn+(0.0555)Ile+(-0.1534)
Trp;0.830,0.859,0.766,0.750,0.780,0.798,0.756,0.771,(3.8942)+(-0.1461
)His+(0.0439)Thr+(-0.0003)Ala+(-0.0248)Tyr+(-0.2905)Met+(0.1497)Phe;0
.830,0.859,0.800,0.810,0.787,0.849,0.762,0.802,(3.3850)+(0.0368)Ser+(
0.0022)Gln+(-0.0040)Ala+(0.0153)Pro+(-0.1838)Met+(-0.1319)Trp;0.830,0
.856,0.783,0.770,0.795,0.825,0.762,0.788,(7.5914)+(0.0005)Gly+(-0.101
1)His+(0.0147)Thr+(0.0046)Pro+(0.0264)Orn+(-0.1091)Trp;0.830,0.857,0.
765,0.762,0.732,0.799,0.814,0.777,(4.3220)+(-0.1034)His+(-0.0157)Arg+
(-0.0570)Tyr+(0.1307)Ile+(-0.0682)Leu+(0.1111)Phe;0.830,0.856,0.765,0
.738,0.767,0.838,0.782,0.781,(4.9229)+(0.0418)Ser+(-0.1100)His+(-0.00
20)Ala+(-0.0125)Val+(0.0522)Leu+(-0.1110)Trp;0.830,0.854,0.738,0.721,
0.700,0.791,0.822,0.758,(3.6403)+(-0.1193)His+(0.0157)Thr+(-0.0574)Ty
r+(-0.0331)Val+(0.1138)Ile+(0.0929)Phe;0.830,0.852,0.833,0.840,0.823,
0.856,0.818,0.834,(6.1828)+(-0.0489)Asn+(0.0009)Gly+(0.0113)Gln+(-0.1

011)His+(0.0000)Ala+(-0.0966)Trp;0.830,0.860,0.757,0.747,0.719,0.821,0.816,0.776,(2.9968)+(0.0244)Ser+(-0.0135)Tyr+(-0.0394)Val+(0.0052)Orn+(0.1458)Ile+(-0.1419)Trp;0.830,0.857,0.843,0.842,0.838,0.866,0.839,0.846,(5.9220)+(-0.0347)Asn+(0.0121)Gln+(-0.1045)His+(0.0317)Tyr+(-0.0819)Met+(-0.1044)Trp;0.830,0.858,0.766,0.738,0.779,0.834,0.768,0.780,(5.0820)+(0.0437)Ser+(-0.1008)His+(-0.0396)Cit+(-0.0106)Val+(0.0490)Leu+(-0.1201)Trp;0.830,0.866,0.763,0.739,0.758,0.834,0.790,0.780,(-3.5244)+(0.0542)Ser+(-0.0091)Ala+(-0.0933)Cit+(-0.3674)Met+(0.0752)Ile+(0.0996)Phe;0.830,0.859,0.827,0.823,0.826,0.858,0.818,0.831,(5.5732)+(0.0101)Gln+(-0.1094)His+(0.0253)Tyr+(-0.1063)Met+(0.0232)Orn+(-0.1034)Trp;0.830,0.858,0.798,0.804,0.782,0.852,0.779,0.804,(4.5667)+(0.0393)Ser+(-0.1078)Asn+(-0.0058)Ala+(0.0113)Pro+(0.0186)Orn+(-0.1295)Trp;0.830,0.857,0.772,0.755,0.745,0.826,0.832,0.790,(2.0253)+(0.0311)Ser+(-0.0104)Ala+(0.0054)Pro+(-0.0041)Orn+(0.0705)Ile+(-0.1642)Trp;0.830,0.856,0.808,0.802,0.809,0.832,0.808,0.813,(5.4432)+(0.0089)Gln+(-0.1248)His+(0.0073)Val+(0.0187)Orn+(0.0014)Lys+(-0.1125)Trp;0.830,0.855,0.811,0.814,0.818,0.849,0.758,0.810,(9.0497)+(-0.0181)Asn+(-0.0805)His+(0.0315)Thr+(0.0003)Ala+(-0.1026)Met+(-0.1026)Trp;0.830,0.852,0.752,0.716,0.749,0.841,0.790,0.774,(1.3905)+(0.0431)Ser+(-0.0047)Gly+(0.0077)Gln+(-0.1644)His+(-0.0264)Arg+(0.0540)Ile;0.830,0.859,0.790,0.782,0.795,0.847,0.757,0.795,(6.6400)+(0.0413)Ser+(-0.0059)Gly+(-0.0945)His+(0.0173)Thr+(-0.0155)Arg+(-0.1032)Trp;0.830,0.852,0.800,0.790,0.749,0.870,0.884,0.823,(4.6549)+(-0.0876)Asn+(0.0083)Gln+(-0.0898)His+(-0.0054)Ala+(-0.0349)Val+(0.1385)Ile;0.830,0.867,0.825,0.807,0.836,0.829,0.846,0.829,(6.2036)+(-0.0971)His+(0.0088)Tyr+(-0.1517)Met+(0.0123)Leu+(0.1183)Phe+(-0.1146)Trp;0.830,0.860,0.798,0.792,0.759,0.838,0.865,0.814,(7.0238)+(-0.0559)Asn+(-0.0111)Arg+(0.0016)Pro+(-0.0433)Val+(0.1566)Ile+(-0.1144)Trp;0.830,0.864,0.799,0.786,0.806,0.800,0.822,0.8

03,(6.0680)+(-0.1075)His+(-0.0096)Arg+(0.0042)Pro+(0.0065)Lys+(0.0972)Phe+(-0.1220)Trp;0.830,0.856,0.798,0.780,0.799,0.831,0.817,0.807,(5.5619)+(0.0083)Gln+(-0.1249)His+(-0.0151)Val+(0.0223)Orn+(0.0453)Leu+(-0.1147)Trp;0.830,0.856,0.709,0.677,0.695,0.797,0.760,0.732,(0.4765)+(0.0440)Ser+(-0.1605)His+(0.0000)Pro+(-0.0508)Tyr+(0.0418)Ile+(0.0947)Phe;0.830,0.864,0.749,0.702,0.762,0.851,0.774,0.772,(2.0840)+(0.0540)Ser+(-0.1196)His+(-0.0375)Cit+(0.0166)Tyr+(-0.2439)Met+(0.0835)Ile;0.830,0.864,0.777,0.789,0.777,0.788,0.739,0.773,(0.8422)+(0.0368)Ser+(-0.0253)Arg+(-0.0351)Tyr+(-0.0004)Leu+(0.1070)Phe+(-0.1622)Trp;0.830,0.857,0.804,0.814,0.812,0.851,0.730,0.802,(5.0704)+(0.0341)Ser+(-0.0738)Asn+(0.0126)Thr+(-0.1260)Met+(0.0200)Orn+(-0.1357)Trp;0.830,0.856,0.735,0.705,0.721,0.831,0.773,0.758,(1.1787)+(0.0484)Ser+(-0.1526)His+(-0.0061)Ala+(0.0075)Pro+(-0.0110)Lys+(0.1035)Phe;0.830,0.860,0.792,0.762,0.799,0.839,0.820,0.805,(6.7955)+(0.0063)Gly+(-0.0896)His+(0.0269)Tyr+(-0.1436)Met+(0.0758)Ile+(-0.1150)Trp;0.830,0.860,0.810,0.798,0.799,0.847,0.837,0.820,(6.8391)+(-0.0277)Asn+(-0.0690)Cit+(0.0003)Pro+(0.1417)Ile+(-0.0572)Leu+(-0.1408)Trp;0.830,0.860,0.796,0.792,0.799,0.853,0.760,0.801,(6.3265)+(0.0419)Ser+(-0.0543)Asn+(-0.0870)His+(-0.0108)Arg+(0.0119)Lys+(-0.0999)Trp;0.830,0.855,0.782,0.765,0.797,0.820,0.769,0.788,(7.6150)+(-0.1059)His+(0.0157)Thr+(0.0034)Pro+(0.0042)Val+(0.0242)Orn+(-0.1144)Trp;0.830,0.854,0.800,0.787,0.795,0.828,0.827,0.809,(5.4479)+(0.0092)Gln+(-0.1236)His+(0.0046)Pro+(-0.0128)Val+(0.0426)Leu+(-0.1163)Trp;0.830,0.867,0.801,0.789,0.805,0.813,0.812,0.805,(6.2142)+(-0.1063)His+(-0.0078)Arg+(-0.0195)Tyr+(0.0273)Orn+(0.1029)Phe+(-0.1079)Trp;0.830,0.863,0.849,0.863,0.844,0.821,0.845,0.843,(3.4816)+(-0.1074)Asn+(0.0056)Gln+(-0.0101)Val+(0.0148)Orn+(0.0846)Phe+(-0.1431)Trp;0.830,0.862,0.821,0.819,0.820,0.799,0.846,0.821,(1.3539)+(0.0058)Gln+(0.0025)Pro+(-0.2843)Met+(0.0497)Ile+(0.0899)Phe+(-0.1580)

Trp;0.830,0.862,0.785,0.793,0
.767,0.801,0.787,0.787,(0.8348)+(0.0303)Ser+(0.0021)Thr+(-0.0054)Ala+
(-0.0321)Tyr+(0.1004)Phe+(-0.1598)Trp;0.830,0.857,0.763,0.738,0.790,0
.801,0.743,0.768,(4.0895)+(-0.1500)His+(0.0480)Thr+(-0.0137)Arg+(-0.3
281)Met+(0.0077)Leu+(0.1364)Phe;0.830,0.867,0.783,0.785,0.790,0.797,0
.751,0.781,(0.8457)+(0.0373)Ser+(-0.0242)Arg+(-0.0071)Lys+(0.0026)Leu
+(0.0904)Phe+(-0.1698)Trp;0.830,0.860,0.821,0.821,0.831,0.833,0.793,0
.819,(5.1547)+(0.0245)Thr+(-0.0067)Ala+(-0.0996)Cit+(-0.0114)Lys+(0.1
138)Phe+(-0.1737)Trp;0.830,0.857,0.792,0.791,0.805,0.828,0.741,0.791,
(4.1554)+(0.0387)Ser+(-0.0668)Asn+(0.0168)Thr+(-0.1755)Met+(0.0233)Le
u+(-0.1492)Trp;0.830,0.856,0.790,0.779,0.821,0.837,0.717,0.789,(4.329
0)+(0.0274)Ser+(0.0005)Gln+(-0.1165)Cit+(0.0021)Val+(0.0464)Orn+(-0.1
703)Trp;0.830,0.855,0.798,0.804,0.783,0.852,0.775,0.803,(4.9698)+(0.0
378)Ser+(-0.1074)Asn+(0.0060)Thr+(-0.0054)Ala+(0.0119)Pro+(-0.1315)Tr
p;0.830,0.859,0.752,0.733,0.747,0.763,0.804,0.762,(-0.2604)+(0.0356)S
er+(-0.0099)Thr+(-0.0107)Orn+(0.0480)Ile+(0.0556)Phe+(-0.1876)Trp;0.8
30,0.863,0.818,0.800,0.821,0.833,0.849,0.826,(6.6571)+(-0.0896)His+(-
0.0043)Ala+(-0.0559)Cit+(0.0150)Leu+(0.1116)Phe+(-0.1302)Trp;0.830,0.
857,0.769,0.741,0.781,0.826,0.777,0.781,(5.0459)+(0.0487)Ser+(-0.0037
)Gly+(-0.1101)His+(-0.0080)Arg+(0.0300)Leu+(-0.1133)Trp;0.830,0.861,0
.790,0.778,0.800,0.855,0.758,0.798,(6.4461)+(0.0400)Ser+(-0.0047)Gly+
(-0.0882)His+(0.0155)Thr+(-0.0386)Cit+(-0.1091)Trp;0.830,0.855,0.833,
0.833,0.828,0.851,0.830,0.836,(5.9404)+(-0.0631)Asn+(0.0111)Gln+(-0.1
094)His+(0.0152)Tyr+(0.0077)Lys+(-0.1082)Trp;0.830,0.855,0.812,0.804,
0.811,0.839,0.813,0.817,(5.3413)+(0.0017)Gly+(0.0112)Gln+(-0.1286)His
+(-0.0139)Arg+(0.0256)Leu+(-0.1143)Trp;0.830,0.853,0.739,0.709,0.741,
0.815,0.757,0.756,(1.3662)+(0.0574)Ser+(-0.0977)Asn+(-0.1466)His+(0.0
035)Pro+(-0.0078)Lys+(0.1120)Phe;0.830,0.863,0.782,0.766,0.796,0.849,

0.748,0.790,(5.7334)+(0.0369)Ser+(-0.0993)His+(-0.0150)Arg+(0.0123)Tyr+(0.0298)Orn+(-0.1018)Trp;0.830,0.862,0.758,0.768,0.748,0.756,0.752,0.756,(0.4609)+(0.0309)Ser+(0.0048)Pro+(-0.0460)Tyr+(-0.0028)Orn+(0.0955)Phe+(-0.1688)Trp;0.830,0.862,0.771,0.747,0.762,0.839,0.805,0.788,(5.8730)+(-0.1092)His+(0.0280)Thr+(0.0001)Pro+(-0.2398)Met+(0.1241)Ile+(-0.0392)Leu;0.830,0.859,0.802,0.776,0.792,0.842,0.860,0.818,(7.6021)+(-0.0905)His+(-0.0055)Ala+(0.0094)Tyr+(0.0033)Lys+(0.0720)Ile+(-0.1219)Trp;0.830,0.856,0.805,0.801,0.805,0.839,0.789,0.809,(5.8932)+(0.0074)Gln+(-0.1179)His+(0.0107)Thr+(0.0015)Tyr+(0.0209)Orn+(-0.1084)Trp;0.830,0.861,0.806,0.789,0.811,0.812,0.835,0.812,(6.3541)+(-0.0059)Asn+(-0.1068)His+(-0.0031)Arg+(0.0096)Leu+(0.0955)Phe+(-0.1202)Trp;0.830,0.860,0.758,0.746,0.721,0.822,0.822,0.778,(2.7413)+(0.0251)Ser+(-0.0024)Pro+(-0.0404)Val+(0.0034)Orn+(0.1493)Ile+(-0.1468)Trp;0.830,0.856,0.810,0.821,0.789,0.855,0.796,0.815,(4.1030)+(0.0371)Ser+(-0.1141)Asn+(0.0033)Gln+(-0.0053)Ala+(0.0118)Pro+(-0.1311)Trp;0.830,0.854,0.820,0.818,0.813,0.845,0.821,0.824,(5.4965)+(0.0011)Gly+(0.0101)Gln+(-0.1226)His+(-0.0022)Ala+(0.0110)Val+(-0.1111)Trp;0.830,0.859,0.810,0.798,0.798,0.847,0.837,0.820,(6.8413)+(-0.0275)Asn+(-0.0688)Cit+(-0.0000)Arg+(0.1422)Ile+(-0.0573)Leu+(-0.1407)Trp;0.830,0.858,0.778,0.757,0.798,0.840,0.748,0.786,(5.4854)+(0.0432)Ser+(-0.0973)His+(-0.0445)Cit+(-0.0020)Arg+(0.0137)Val+(-0.1167)Trp;0.830,0.857,0.792,0.791,0.798,0.834,0.749,0.793,(3.1125)+(0.0411)Ser+(0.0120)Pro+(0.0240)Tyr+(-0.2439)Met+(0.0046)Lys+(-0.1467)Trp;0.830,0.857,0.775,0.762,0.768,0.822,0.790,0.786,(2.8449)+(0.0431)Ser+(-0.1174)Asn+(0.0000)Pro+(0.0037)Orn+(0.0559)Ile+(-0.1516)Trp;0.830,0.857,0.782,0.750,0.814,0.835,0.764,0.791,(7.7777)+(-0.0957)His+(0.0182)Thr+(-0.0760)Cit+(0.0439)Orn+(0.0216)Leu+(-0.1341)Trp;0.830,0.856,0.757,0.751,0.721,0.791,0.820,0.771,(3.7266)+(-0.1125)His+(-0.0586)Tyr+(0.0018)Lys+(0.1212)Ile+(-0.0628)Leu

+(0.1042)Phe;0.830,0.866,0.775,0.777,0.786,0.784,0.739,0.771,(0.7718)+(0.0351)Ser+(-0.0304)Arg+(0.0036)Pro+(0.0034)Orn+(0.0829)Phe+(-0.1766)Trp;0.830,0.859,0.781,0.751,0.765,0.860,0.838,0.803,(6.2292)+(-0.0616)His+(-0.0555)Cit+(-0.0447)Val+(-0.1985)Met+(0.0461)Orn+(0.1641)Ile;0.830,0.851,0.718,0.676,0.708,0.813,0.778,0.744,(-0.3365)+(0.0387)Ser+(0.0038)Gln+(-0.1830)His+(-0.0042)Pro+(0.0396)Ile+(0.0678)Phe;0.830,0.862,0.797,0.784,0.796,0.802,0.828,0.803,(6.0045)+(-0.1107)His+(-0.0198)Tyr+(0.0052)Lys+(0.0084)Leu+(0.1025)Phe+(-0.1182)Trp;0.830,0.860,0.819,0.808,0.811,0.817,0.865,0.825,(3.7727)+(-0.0072)Ala+(0.0073)Pro+(-0.2085)Met+(0.0559)Ile+(0.0875)Phe+(-0.1477)Trp;0.830,0.859,0.782,0.771,0.794,0.850,0.735,0.788,(6.2198)+(0.0354)Ser+(-0.1003)His+(0.0136)Thr+(-0.0161)Arg+(0.0158)Tyr+(-0.1068)Trp;0.830,0.857,0.777,0.752,0.773,0.838,0.812,0.794,(3.3188)+(0.0079)Gly+(-0.1280)His+(-0.0046)Ala+(-0.2328)Met+(0.0595)Ile+(0.1072)Phe;0.830,0.855,0.833,0.833,0.827,0.859,0.823,0.836,(6.0034)+(-0.0551)Asn+(0.0016)Gly+(0.0112)Gln+(-0.1083)His+(0.0203)Tyr+(-0.1043)Trp;0.830,0.851,0.752,0.743,0.703,0.858,0.801,0.776,(3.2376)+(0.0433)Ser+(-0.1808)Asn+(0.0138)Thr+(-0.0248)Arg+(-0.0599)Val+(0.1841)Ile;0.830,0.856,0.804,0.799,0.804,0.831,0.796,0.808,(5.6438)+(-0.0000)Gly+(0.0083)Gln+(-0.1156)His+(0.0056)Pro+(0.0217)Orn+(-0.1060)Trp;0.830,0.856,0.830,0.826,0.848,0.849,0.788,0.828,(6.1803)+(-0.0869)Asn+(0.0068)Gln+(-0.1135)Cit+(0.0055)Pro+(0.0491)Orn+(-0.1553)Trp;0.830,0.862,0.750,0.709,0.757,0.845,0.777,0.772,(2.4386)+(0.0537)Ser+(-0.0013)Gly+(-0.1170)His+(-0.0345)Cit+(-0.2133)Met+(0.0830)Ile;0.830,0.859,0.771,0.746,0.790,0.814,0.767,0.779,(3.7451)+(-0.1477)His+(0.0413)Thr+(-0.0012)Ala+(-0.3095)Met+(0.0077)Orn+(0.1388)Phe;0.830,0.865,0.776,0.779,0.787,0.786,0.741,0.773,(0.7927)+(0.0354)Ser+(-0.0298)Arg+(0.0042)Pro+(-0.0031)Leu+(0.0870)Phe+(-0.1746)Trp;0.830,0.867,0.795,0.786,0.804,0.822,0.779,0.798,(5.4287)+(0.0069)Gly+(

-0.0973)His+(-0.0624)Cit+(-0.0087)Tyr+(0.1284)Phe+(-0.1216)Trp;0.830,0.860,0.812,0.794,0.824,0.809,0.838,0.816,(5.2353)+(-0.0306)Asn+(-0.0923)Cit+(-0.0084)Lys+(0.0544)Ile+(0.0772)Phe+(-0.1730)Trp;0.830,0.860,0.793,0.781,0.766,0.836,0.850,0.808,(6.5111)+(-0.0580)Cit+(-0.0071)Arg+(-0.0299)Val+(0.1692)Ile+(-0.0240)Leu+(-0.1343)Trp;0.830,0.858,0.765,0.753,0.748,0.816,0.792,0.777,(2.5818)+(0.0276)Ser+(-0.0009)Gln+(-0.0040)Pro+(0.1461)Ile+(-0.0630)Leu+(-0.1530)Trp;0.830,0.855,0.765,0.743,0.793,0.803,0.741,0.770,(4.1002)+(-0.1466)His+(0.0460)Thr+(-0.0153)Arg+(-0.3133)Met+(0.0084)Orn+(0.1392)Phe;0.830,0.852,0.735,0.699,0.729,0.833,0.775,0.759,(1.2358)+(0.0494)Ser+(-0.1578)His+(-0.0048)Ala+(-0.0132)Lys+(0.0138)Leu+(0.0969)Phe;0.830,0.849,0.739,0.701,0.710,0.835,0.829,0.769,(2.1601)+(0.0404)Ser+(-0.0068)Gly+(0.0029)Gln+(-0.1286)His+(-0.0286)Val+(0.1163)Ile;0.830,0.864,0.757,0.745,0.762,0.777,0.767,0.763,(0.2066)+(0.0378)Ser+(-0.0314)Arg+(-0.0061)Orn+(0.0486)Ile+(0.0666)Phe+(-0.1878)Trp;0.830,0.862,0.785,0.793,0.767,0.800,0.788,0.787,(0.8905)+(0.0322)Ser+(-0.0006)Gln+(-0.0052)Ala+(-0.0306)Tyr+(0.1010)Phe+(-0.1578)Trp;0.830,0.857,0.783,0.766,0.815,0.829,0.730,0.785,(4.0031)+(0.0316)Ser+(-0.0051)Thr+(-0.1182)Cit+(0.0466)Orn+(0.0135)Leu+(-0.1761)Trp;0.830,0.857,0.819,0.833,0.815,0.858,0.765,0.818,(3.8197)+(0.0353)Ser+(-0.0841)Asn+(0.0041)Gln+(-0.1069)Met+(0.0214)Orn+(-0.1335)Trp;0.830,0.854,0.821,0.820,0.847,0.860,0.740,0.817,(5.8805)+(0.0043)Gln+(0.0178)Thr+(-0.1005)Cit+(-0.1560)Met+(0.0432)Orn+(-0.1497)Trp;0.830,0.860,0.764,0.739,0.762,0.767,0.831,0.775,(0.1954)+(0.0438)Ser+(-0.0070)Gly+(-0.0092)Thr+(0.0433)Ile+(0.0461)Phe+(-0.1833)Trp;0.830,0.860,0.810,0.807,0.779,0.844,0.856,0.822,(6.4066)+(-0.0085)Ala+(-0.0154)Arg+(0.0051)Pro+(0.1614)Ile+(-0.0681)Leu+(-0.1289)Trp;0.830,0.856,0.789,0.798,0.788,0.825,0.740,0.788,(3.0356)+(0.0369)Ser+(0.0019)Gln+(0.0126)Pro+(-0.2157)Met+(0.0043)Lys+(-0.1409)Trp;0.830,0.855,0.77

0,0.760,0.746,0.825,0.807,0.784,(5.7452)+(0.0166)Thr+(-0.0368)Arg+(-0.0476)Val+(0.0204)Orn+(0.1632)Ile+(-0.1364)Trp;0.830,0.855,0.743,0.706,0.728,0.852,0.793,0.770,(2.8514)+(0.0467)Ser+(-0.1317)His+(-0.0066)Ala+(-0.0132)Arg+(-0.0071)Lys+(0.0772)Ile;0.830,0.859,0.796,0.796,0.776,0.824,0.818,0.804,(6.3425)+(-0.0649)Asn+(0.0121)Thr+(-0.0186)Tyr+(0.1338)Ile+(-0.0592)Leu+(-0.1324)Trp;0.830,0.863,0.805,0.799,0.801,0.807,0.826,0.808,(6.1650)+(-0.0204)Asn+(-0.1045)His+(-0.0198)Tyr+(0.0084)Lys+(0.1089)Phe+(-0.1136)Trp;0.830,0.865,0.779,0.783,0.792,0.785,0.740,0.775,(0.8611)+(0.0339)Ser+(0.0001)Gln+(0.0028)Thr+(-0.0300)Arg+(0.0872)Phe+(-0.1764)Trp;0.830,0.856,0.798,0.787,0.827,0.813,0.756,0.796,(4.3732)+(0.0091)Thr+(-0.1252)Cit+(-0.0062)Val+(0.0441)Orn+(0.0836)Phe+(-0.1794)Trp;0.830,0.855,0.824,0.818,0.819,0.847,0.832,0.829,(5.5104)+(0.0103)Gln+(-0.1252)His+(-0.0029)Ala+(0.0147)Tyr+(0.0103)Val+(-0.1160)Trp;0.830,0.855,0.776,0.755,0.799,0.817,0.753,0.781,(4.1733)+(-0.1380)His+(0.0441)Thr+(-0.0016)Ala+(-0.0404)Cit+(-0.3102)Met+(0.1448)Phe;0.830,0.858,0.758,0.748,0.721,0.821,0.819,0.777,(2.9899)+(0.0254)Ser+(-0.0013)Pro+(-0.0106)Tyr+(-0.0392)Val+(0.1483)Ile+(-0.1426)Trp;0.830,0.857,0.804,0.788,0.807,0.829,0.820,0.811,(5.3359)+(0.0090)Gln+(-0.1306)His+(0.0032)Tyr+(0.0169)Orn+(0.0222)Leu+(-0.1184)Trp;0.830,0.852,0.773,0.750,0.799,0.798,0.764,0.778,(3.3834)+(0.0044)Gly+(-0.1310)Cit+(0.0340)Orn+(0.0446)Ile+(0.0607)Phe+(-0.1933)Trp;0.830,0.865,0.818,0.801,0.815,0.853,0.845,0.829,(6.6359)+(-0.0606)Cit+(0.0183)Tyr+(-0.1304)Met+(0.1491)Ile+(-0.0574)Leu+(-0.1348)Trp;0.830,0.859,0.809,0.809,0.777,0.847,0.848,0.820,(6.1909)+(0.0014)Gly+(-0.0075)Ala+(-0.0153)Arg+(0.1682)Ile+(-0.0696)Leu+(-0.1289)Trp;0.830,0.858,0.802,0.789,0.826,0.842,0.756,0.803,(4.5540)+(0.0333)Ser+(-0.0050)Gly+(0.0008)Gln+(-0.1105)Cit+(0.0469)Orn+(-0.1665)Trp;0.830,0.863,0.762,0.758,0.762,0.767,0.769,0.764,(0.4494)+(0.0351)Ser+(-0.0014)Gln+(-0.0080)Thr+(

0.0034)Pro+(0.0736)Phe+(-0.1739)Trp;0.830,0.860,0.797,0.780,0.787,0.826,0.842,0.809,(7.4905)+(-0.0715)His+(-0.0075)Arg+(-0.0000)Tyr+(0.1211)Ile+(-0.0406)Leu+(-0.1130)Trp;0.830,0.859,0.829,0.829,0.826,0.853,0.819,0.832,(5.8407)+(0.0111)Gln+(-0.0910)His+(-0.0387)Cit+(0.0107)Pro+(-0.0829)Met+(-0.1043)Trp;0.830,0.858,0.783,0.758,0.799,0.823,0.784,0.791,(7.9797)+(-0.0336)Asn+(-0.1097)His+(0.0216)Thr+(0.0229)Orn+(0.0212)Leu+(-0.1200)Trp;0.830,0.853,0.762,0.745,0.712,0.866,0.839,0.790,(3.1392)+(0.0490)Ser+(-0.1714)Asn+(-0.0029)Gly+(-0.0468)Cit+(-0.0537)Val+(0.1714)Ile;0.830,0.858,0.780,0.756,0.790,0.833,0.782,0.790,(5.2026)+(0.0460)Ser+(-0.0042)Gly+

(-0.1084)His+(0.0084)Tyr+(0.0108)Val+(-0.1136)Trp;0.830,0.856,0.738,0.704,0.733,0.833,0.768,0.760,(1.2506)+(0.0463)Ser+(-0.1559)His+(-0.0044)Ala+(0.0190)Orn+(-0.0123)Lys+(0.1040)Phe;0.830,0.853,0.817,0.819,0.807,0.850,0.807,0.821,(6.0848)+(0.0084)Gln+(-0.1148)His+(0.0132)Thr+(-0.0020)Ala+(0.0114)Tyr+(-0.1099)Trp;0.830,0.852,0.817,0.823,0.806,0.846,0.805,0.820,(6.2714)+(-0.0014)Gly+(0.0084)Gln+(-0.1115)His+(0.0152)Thr+(-0.0015)Ala+(-0.1069)Trp;0.830,0.858,0.780,0.756,0.731,0.853,0.891,0.808,(4.2394)+(-0.0878)His+(-0.0085)Ala+(-0.0495)Cit+(-0.0387)Val+(0.1423)Ile+(0.0753)Phe;0.830,0.856,0.737,0.700,0.723,0.843,0.789,0.764,(2.9637)+(0.0453)Ser+(-0.0740)Asn+(-0.1194)His+(-0.0010)Thr+(0.1083)Ile+(-0.0356)Leu;0.830,0.856,0.791,0.783,0.825,0.838,0.710,0.789,(4.7426)+(0.0296)Ser+(-0.1099)Cit+(-0.0103)Arg+(0.0020)Val+(0.0488)Orn+(-0.1662)Trp;0.830,0.852,0.742,0.703,0.740,0.843,0.776,0.765,(1.7671)+(0.0379)Ser+(0.0063)Gln+(-0.1458)His+(-0.0509)Cit+(-0.0152)Lys+(0.0667)Ile;0.830,0.864,0.805,0.803,0.789,0.811,0.836,0.810,(1.2053)+(0.0398)Ser+(-0.0071)Gly+(-0.0058)Ala+(-0.0036)Val+(0.0869)Phe+(-0.1603)Trp;0.830,0.857,0.784,0.768,0.820,0.831,0.718,0.784,(4.3272)+(0.0308)Ser+(-0.1125)Cit+(-0.0104)Arg+(0.0460)Orn+(0.0132)Leu+(-0.1764)Trp;

0.830,0.854,0.733,0.699,0.737,0.811,0.756,0.751,(1.1086)+(0.0548)Ser+(-0.1096)Asn+(-0.1516)His+(0.0024)Pro+(0.0122)Orn+(0.1031)Phe;0.830,0.852,0.738,0.711,0.743,0.810,0.748,0.753,(1.2630)+(0.0588)Ser+(-0.0947)Asn+(-0.1471)His+(-0.0171)Arg+(0.0037)Pro+(0.1105)Phe;0.830,0.860,0.776,0.766,0.774,0.830,0.769,0.785,(3.2521)+(0.0429)Ser+(-0.1050)Asn+(0.0062)Thr+(-0.0170)Arg+(0.0586)Ile+(-0.1530)Trp;0.830,0.858,0.829,0.829,0.824,0.849,0.826,0.832,(5.5035)+(0.0113)Gln+(-0.1162)His+(-0.0008)Ala+(0.0111)Val+(-0.0669)Met+(-0.1062)Trp;0.830,0.857,0.768,0.750,0.743,0.824,0.827,0.786,(2.1770)+(0.0319)Ser+(-0.0008)Gln+(-0.0104)Ala+(0.0054)Pro+(0.0693)Ile+(-0.1629)Trp;0.830,0.855,0.798,0.796,0.779,0.823,0.827,0.806,(6.1558)+(-0.0495)Asn+(-0.0166)Tyr+(0.0138)Orn+(0.1368)Ile+(-0.0629)Leu+(-0.1270)Trp;0.830,0.854,0.776,0.750,0.792,0.819,0.778,0.785,(7.6271)+(-0.1163)His+(0.0197)Thr+(0.0230)Orn+(-0.0031)Lys+(0.0237)Leu+(-0.1219)Trp;0.830,0.855,0.795,0.788,0.802,0.823,0.779,0.798,(8.3769)+(-0.0473)Asn+(-0.0900)His+(0.0205)Thr+(0.0057)Pro+(0.0071)Lys+(-0.1117)Trp;0.830,0.861,0.800,0.793,0.796,0.805,0.824,0.804,(5.8991)+(-0.1085)His+(-0.0202)Tyr+(-0.0000)Val+(0.0070)Lys+(0.1096)Phe+(-0.1147)Trp;0.830,0.855,0.765,0.759,0.732,0.807,0.820,0.779,(3.9491)+(-0.0971)His+(-0.0521)Cit+(-0.0598)Tyr+(0.1354)Ile+(-0.0697)Leu+(0.1143)Phe;0.830,0.854,0.750,0.725,0.751,0.824,0.760,0.765,(1.5903)+(0.0574)Ser+(-0.1133)Asn+(-0.1331)His+(-0.0328)Cit+(-0.0058)Val+(0.1244)Phe;0.830,0.854,0.740,0.699,0.723,0.856,0.803,0.770,(2.5211)+(0.0441)Ser+(-0.1259)His+(-0.0101)Ala+(-0.0543)Cit+(0.0066)Pro+(0.0719)Ile;0.830,0.863,0.808,0.806,0.832,0.803,0.764,0.801,(3.6695)+(0.0064)Gly+(-0.0884)Cit+(0.0095)Pro+(-0.1995)Met+(0.1270)Phe+(-0.1524)Trp;0.830,0.863,0.833,0.813,0.843,0.850,0.850,0.839,(4.0050)+(0.0074)Gln+(-0.0788)Cit+(0.0217)Tyr+(-0.1881)Met+(0.0713)Ile+(-0.1676)Trp;0.830,0.857,0.808,0.802,0.809,0.834,0.805,0.812,(5.4215)+(0.0007)Gly+(0.0089)Gln

+(-0.1249)His+(0.0077)Val+(0.0189)Orn+(-0.1117)Trp;0.830,0.854,0.793,0.779,0.745,0.866,0.874,0.816,(5.3734)+(-0.0493)Asn+(-0.0053)Ala+(-0.0566)Val+(-0.2079)Met+(0.0321)Orn+(0.1936)Ile;0.830,0.858,0.772,0.748,0.786,0.834,0.762,0.783,(5.0473)+(0.0402)Ser+(-0.1127)His+(0.0109)Tyr+(0.0111)Val+(0.0005)Lys+(-0.1142)Trp;0.830,0.857,0.821,0.821,0.818,0.851,0.806,0.824,(5.5832)+(0.0092)Gln+(-0.1080)His+(-0.0931)Met+(0.0246)Orn+(0.0082)Lys+(-0.1011)Trp;0.830,0.859,0.788,0.764,0.790,0.831,0.815,0.800,(7.0607)+(0.0053)Gly+(-0.0861)His+(0.0028)Pro+(-0.1093)Met+(0.0736)Ile+(-0.1088)Trp;0.830,0.854,0.815,0.821,0.821,0.858,0.757,0.815,(5.9118)+(0.0401)Ser+(-0.0880)Asn+(-0.0010)Ala+(-0.0644)Cit+(0.0053)Lys+(-0.1355)Trp;0.830,0.855,0.783,0.763,0.795,0.816,0.787,0.790,(8.1365)+(-0.0316)Asn+(-0.1052)His+(0.0237)Thr+(0.0026)Pro+(0.0227)Leu+(-0.1211)Trp;0.830,0.854,0.815,0.817,0.838,0.840,0.743,0.809,(8.2872)+(-0.0423)Asn+(0.0283)Thr+(-0.0654)Cit+(0.0093)Pro+(-0.1452)Met+(-0.1402)Trp;0.829,0.856,0.773,0.763,0.782,0.779,0.778,0.775,(3.7531)+(0.0178)Thr+(-0.1010)Cit+(-0.0458)Tyr+(0.0501)Ile+(0.0898)Phe+(-0.1881)Trp;0.829,0.855,0.838,0.838,0.833,0.862,0.834,0.842,(5.6736)+(0.0113)Gln+(-0.1081)His+(-0.0003)Ala+(0.0337)Tyr+(-0.1041)Met+(-0.1045)Trp;0.829,0.855,0.739,0.706,0.749,0.822,0.743,0.755,(1.6306)+(0.0545)Ser+(-0.1180)Asn+(-0.1455)His+(0.0104)Thr+(-0.0409)Cit+(0.1116)Phe;0.829,0.854,0.805,0.788,0.803,0.833,0.833,0.814,(5.4155)+(0.0095)Gln+(-0.1276)His+(0.0114)Tyr+(-0.0125)Val+(0.0439)Leu+(-0.1189)Trp;0.829,0.861,0.791,0.773,0.801,0.849,0.772,0.799,(5.9825)+(0.0429)Ser+(-0.0051)Gly+(-0.0933)His+(-0.0139)Arg+(0.0324)Orn+(-0.0979)Trp;0.829,0.855,0.766,0.745,0.792,0.799,0.743,0.769,(4.1108)+(-0.1466)His+(0.0470)Thr+(-0.0156)Arg+(-0.3203)Met+(0.0019)Lys+(0.1425)Phe;0.829,0.856,0.818,0.820,0.817,0.850,0.791,0.819,(4.9770)+(0.0493)Ser+(-0.0684)Asn+(-0.0077)Gly+(-0.1011)Met+(0.0270)Orn+(-0.1313)Trp;0.829,0.853,0.744,0.731,0.72

8,0.814,0.762,0.759,(0.3132)+(0.0411)Ser+(0.0048)Gln+(-0.1633)His+(-0.0380)Tyr+(-0.0098)Lys+(0.1187)Phe;0.829,0.864,0.770,0.772,0.765,0.769,0.779,0.771,(0.1534)+(0.0333)Ser+(-0.0088)Thr+(0.0035)Pro+(-0.0024)Leu+(0.0744)Phe+(-0.1741)Trp;0.829,0.858,0.823,0.827,0.843,0.819,0.777,0.816,(4.2891)+(-0.0232)Asn+(0.0062)Gly+(-0.0831)Cit+(-0.1505)Met+(0.1279)Phe+(-0.1469)Trp;0.829,0.856,0.742,0.706,0.721,0.849,0.802,0.769,(2.8181)+(0.0440)Ser+(-0.1324)His+(-0.0066)Ala+(-0.0053)Tyr+(-0.0097)Lys+(0.0777)Ile;0.829,0.854,0.738,0.703,0.724,0.848,0.782,0.764,(2.7958)+(0.0440)Ser+(-0.1385)His+(0.0036)Thr+(-0.0070)Ala+(-0.0180)Arg+(0.0719)Ile;0.829,0.858,0.826,0.826,0.823,0.844,0.824,0.829,(5.3124)+(0.0108)Gln+(-0.1177)His+(0.0095)Val+(-0.0934)Met+(0.0075)Lys+(-0.1091)Trp;0.829,0.856,0.796,0.788,0.806,0.838,0.764,0.799,(8.3166)+(-0.0415)Asn+(0.0009)Gly+(-0.0928)His+(0.0197)Thr+(0.0292)Orn+(-0.1047)Trp;0.829,0.856,0.802,0.785,0.817,0.847,0.787,0.809,(8.6626)+(-0.0621)His+(-0.0062)Ala+(-0.0909)Cit+(0.0124)Pro+(0.0596)Orn+(-0.1139)Trp;0.829,0.854,0.811,0.800,0.802,0.842,0.839,0.821,(5.6012)+(0.0098)Gln+(-0.1214)His+(-0.0023)Ala+(-0.0108)Val+(0.0439)Leu+(-0.1136)Trp;0.829,0.855,0.826,0.828,0.824,0.848,0.807,0.827,(6.1520)+(-0.0399)Asn+(0.0111)Gln+(-0.1059)His+(-0.0142)Arg+(0.0293)Orn+(-0.0978)Trp;0.829,0.858,0.804,0.789,0.831,0.851,0.751,0.806,(8.8179)+(-0.0432)Asn+(-0.0718)His+(0.0202)Thr+(-0.0801)Cit+(0.0507)Orn+(-0.1158)Trp;0.829,0.852,0.736,0.697,0.730,0.835,0.784,0.761,(1.8092)+(0.0373)Ser+(0.0050)Gln+(-0.1560)His+(-0.0020)Pro+(-0.0136)Lys+(0.0645)Ile;0.829,0.858,0.814,0.814,0.829,0.857,0.750,0.812,(9.1689)+(-0.0729)His+(0.0327)Thr+(-0.0001)Ala+(-0.0379)Cit+(-0.1100)Met+(-0.1050)Trp;0.829,0.855,0.810,0.806,0.822,0.853,0.763,0.811,(8.5179)+(0.0013)Gly+(-0.0864)His+(0.0295)Thr+(0.0263)Tyr+(-0.1478)Met+(-0.1093)Trp;0.829,0.855,0.813,0.810,0.826,0.852,0.769,0.814,(8.8456)+(-0.0130)Asn+(-0.0830)His+(0.0309)Thr+(0.0235)T

yr+(-0.1360)Met+(-0.1095)Trp;0.829,0.854,0.792,0.780,0.800,0.831,0.778,0.797,(7.9535)+(-0.1048)His+(0.0178)Thr+(-0.0029)Ala+(0.0067)Val+(0.0264)Orn+(-0.1126)Trp;0.829,0.857,0.788,0.773,0.791,0.846,0.777,0.797,(6.0012)+(0.0406)Ser+(-0.0054)Gly+(-0.0992)His+(0.0109)Thr+(0.0088)Tyr+(-0.1071)Trp;0.829,0.857,0.788,0.770,0.751,0.860,0.858,0.810,(5.9698)+(0.0041)Gly+(-0.0622)His+(-0.0040)Ala+(-0.0407)Val+(-0.1924)Met+(0.1732)Ile;0.829,0.864,0.780,0.784,0.792,0.785,0.742,0.776,(0.8221)+(0.0347)Ser+(0.0001)Gln+(-0.0295)Arg+(0.0056)Orn+(0.0847)Phe+(-0.1743)Trp;0.829,0.857,0.762,0.756,0.742,0.811,0.784,0.773,(2.8937)+(0.0271)Ser+(-0.0007)Gln+(-0.0190)Tyr+(0.1411)Ile+(-0.0609)Leu+(-0.1461)Trp;0.829,0.862,0.782,0.784,0.754,0.836,0.798,0.793,(-1.2737)+(0.0594)Ser+(-0.1359)Asn+(-0.0529)Val+(-0.3094)Met+(0.0783)Leu+(0.1402)Phe;0.829,0.859,0.783,0.753,0.789,0.821,0.822,0.796,(7.2541)+(-0.1004)His+(-0.0071)Tyr+(0.0236)Orn+(0.0014)Lys+(0.0595)Ile+(-0.1189)Trp;0.829,0.856,0.819,0.821,0.817,0.853,0.789,0.820,(6.2922)+(0.0000)Gly+(0.0085)Gln+(-0.1025)His+(0.0162)Thr+(-0.0419)Cit+(-0.1122)Trp;0.829,0.857,0.781,0.759,0.799,0.837,0.762,0.789,(5.4874)+(0.0463)Ser+(-0.0028)Gly+(-0.0961)His+(-0.0423)Cit+(0.0132)Val+(-0.1169)Trp;0.829,0.855,0.766,0.770,0.710,0.811,0.843,0.783,(3.9765)+(-0.1922)Asn+(0.0275)Thr+(-0.0655)Tyr+(-0.0620)Val+(0.1712)Ile+(0.1038)Phe;0.829,0.851,0.734,0.704,0.738,0.811,0.752,0.751,(1.3564)+(0.0536)Ser+(-0.1125)Asn+(-0.1538)His+(0.0067)Thr+(0.0017)Leu+(0.1066)Phe;0.829,0.858,0.800,0.794,0.800,0.842,0.784,0.805,(4.9676)+(0.0396)Ser+(-0.0043)Gly+(-0.0066)Ala+(-0.0760)Cit+(0.0158)Pro+(-0.1503)Trp;0.829,0.854,0.734,0.701,0.740,0.814,0.753,0.752,(1.2818)+(0.0531)Ser+(-0.1129)Asn+(-0.1534)His+(0.0045)Thr+(0.0116)Orn+(0.1049)Phe;0.829,0.860,0.789,0.796,0.784,0.782,0.788,0.787,(1.3594)+(0.0487)Ser+(-0.0087)Gly+(-0.0234)Arg+(-0.0427)Tyr+(0.1051)Phe+(-0.1565)Trp;0.829,0.855,0.805,0.787,0.798,0.849,0.833,0.817,(5.5

813)+(0.0054)Gly+(-0.0091)Ala+(-0.0923)Cit+(0.0154)Tyr+(0.0854)Ile+(-0.1669)Trp;0.829,0.858,0.782,0.752,0.761,0.855,0.851,0.805,(5.8743)+(-0.0676)His+(0.0115)Tyr+(-0.0455)Val+(-0.2343)Met+(0.0308)Orn+(0.1674)Ile;0.829,0.850,0.749,0.732,0.730,0.805,0.789,0.764,(0.2399)+(0.0456)Ser+(-0.0057)Gly+(0.0050)Gln+(-0.1643)His+(-0.0498)Tyr+(0.1129)Phe;0.829,0.861,0.788,0.783,0.795,0.784,0.789,0.788,(1.2839)+(0.0449)Ser+(-0.0074)Gly+(-0.0283)Arg+(0.0039)Pro+(0.0786)Phe+(-0.1745)Trp;0.829,0.862,0.749,0.709,0.756,0.846,0.769,0.770,(2.4659)+(0.0524)Ser+(-0.1171)His+(-0.0347)Cit+(-0.0025)Arg+(-0.2112)Met+(0.0836)Ile;0.829,0.860,0.808,0.786,0.802,0.840,0.855,0.821,(7.6994)+(-0.0828)His+(-0.0038)Ala+(-0.0904)Met+(0.0087)Lys+(0.0739)Ile+(-0.1139)Trp;0.829,0.852,0.759,0.745,0.711,0.865,0.821,0.785,(3.0400)+(0.0446)Ser+(-0.1678)Asn+(-0.0534)Cit+(-0.0492)Val+(0.1817)Ile+(-0.0134)Leu;0.829,0.851,0.795,0.793,0.792,0.836,0.776,0.799,(8.2135)+(0.0005)Gly+(-0.0894)His+(0.0189)Thr+(-0.0038)Ala+(0.0093)Pro+(-0.1072)Trp;0.829,0.852,0.795,0.785,0.805,0.827,0.778,0.799,(8.4365)+(-0.0335)Asn+(-0.0938)His+(0.0221)Thr+(0.0046)Pro+(0.0048)Val+(-0.1133)Trp;0.829,0.867,0.793,0.784,0.792,0.793,0.822,0.798,(5.7666)+(-0.1078)His+(0.0052)Pro+(-0.0249)Tyr+(0.0064)Lys+(0.1070)Phe+(-0.1156)Trp;

0.829,0.855,0.760,0.732,0.767,0.828,0.772,0.775,(4.9138)+(0.0424)Ser+(-0.1106)His+(-0.0135)Val+(-0.0032)Lys+(0.0538)Leu+(-0.1113)Trp;0.829,0.865,0.771,0.754,0.775,0.778,0.800,0.777,(0.7287)+(0.0459)Ser+(-0.0067)Gly+(-0.0306)Arg+(0.0453)Ile+(0.0592)Phe+(-0.1848)Trp;0.829,0.859,0.768,0.755,0.748,0.822,0.804,0.782,(2.2477)+(0.0348)Ser+(-0.0103)Thr+(-0.0052)Lys+(0.1465)Ile+(-0.0617)Leu+(-0.1437)Trp;0.829,0.859,0.810,0.799,0.798,0.847,0.836,0.820,(6.8650)+(-0.0266)Asn+(-0.0683)Cit+(-0.0025)Tyr+(0.1425)Ile+(-0.0573)Leu+(-0.1396)Trp;0.829,0.857,0.798,0.789,0.803,0.855,0.770,0.804,(6.2567)+(0.0438)Ser+(-0.0486)Asn+(-0.087

0)His+(-0.0076)Arg+(0.0266)Tyr+(-0.1023)Trp;0.829,0.863,0.809,0.791,0.820,0.815,0.826,0.813,(6.4420)+(-0.0122)Asn+(-0.0868)His+(-0.0545)Cit+(0.0055)Pro+(0.1104)Phe+(-0.1273)Trp;0.829,0.860,0.838,0.844,0.838,0.866,0.805,0.838,(4.8161)+(0.0424)Ser+(-0.1073)Asn+(-0.0053)Gly+(0.0063)Gln+(-0.0655)Cit+(-0.1382)Trp;0.829,0.859,0.798,0.792,0.760,0.838,0.867,0.814,(7.0135)+(-0.0557)Asn+(-0.0106)Arg+(0.0013)Tyr+(-0.0432)Val+(0.1582)Ile+(-0.1148)Trp;0.829,0.856,0.769,0.743,0.781,0.816,0.783,0.781,(7.4694)+(-0.1136)His+(0.0195)Thr+(-0.0217)Val+(0.0266)Orn+(0.0558)Leu+(-0.1198)Trp;0.829,0.860,0.797,0.780,0.787,0.826,0.841,0.809,(7.4916)+(-0.0715)His+(-0.0075)Arg+(-0.0001)Pro+(0.1213)Ile+(-0.0406)Leu+(-0.1130)Trp;0.829,0.858,0.767,0.737,0.785,0.833,0.759,0.779,(5.0524)+(0.0444)Ser+(-0.1027)His+(-0.0419)Cit+(-0.0016)Arg+(0.0327)Leu+(-0.1214)Trp;0.829,0.858,0.785,0.761,0.786,0.830,0.811,0.797,(6.8525)+(0.0202)Asn+(0.0050)Gly+(-0.0899)His+(-0.1187)Met+(0.0786)Ile+(-0.1092)Trp;0.829,0.854,0.770,0.745,0.788,0.815,0.770,0.779,(7.3028)+(0.0015)Gly+(-0.1187)His+(0.0176)Thr+(0.0220)Orn+(0.0231)Leu+(-0.1219)Trp;0.829,0.851,0.813,0.812,0.809,0.841,0.805,0.817,(5.7856)+(0.0083)Gln+(-0.1131)His+(-0.0019)Ala+(0.0254)Orn+(0.0038)Lys+(-0.1038)Trp;0.829,0.857,0.798,0.788,0.809,0.832,0.775,0.801,(8.2587)+(-0.0457)Asn+(-0.0945)His+(0.0189)Thr+(0.0273)Orn+(0.0051)Lys+(-0.1083)Trp;0.829,0.854,0.795,0.792,0.801,0.831,0.765,0.797,(8.5096)+(-0.0414)Asn+(0.0012)Gly+(-0.0870)His+(0.0217)Thr+(0.0061)Pro+(-0.1068)Trp;0.829,0.854,0.790,0.771,0.761,0.850,0.861,0.811,(6.1753)+(-0.0093)Asn+(-0.0664)His+(-0.0459)Val+(-0.2378)Met+(0.0129)Lys+(0.1708)Ile;0.829,0.863,0.825,0.815,0.826,0.838,0.843,0.830,(6.7287)+(-0.0072)Asn+(-0.0839)His+(-0.0033)Ala+(-0.0539)Cit+(0.1227)Phe+(-0.1216)Trp;0.829,0.861,0.848,0.854,0.849,0.831,0.842,0.844,(3.4795)+(-0.0908)Asn+(0.0082)Gln+(-0.0937)Cit+(-0.0005)Arg+(0.0930)Phe+(-0.1645)Trp;0.829,0.860,0.763,0.732,0.778,0

.828,0.767,0.776,(4.8291)+(0.0444)Ser+(-0.1165)His+(-0.0103)Arg+(0.0142)Tyr+(0.0300)Leu+(-0.1188)Trp;0.829,0.861,0.804,0.797,0.798,0.837,0.812,0.811,(0.5712)+(0.0043)Gly+(0.0116)Gln+(-0.1580)His+(-0.0038)Tyr+(-0.2422)Met+(0.1347)Phe;0.829,0.858,0.803,0.779,0.814,0.812,0.839,0.811,(4.6353)+(-0.1033)Cit+(0.0083)Arg+(-0.0142)Lys+(0.0595)Ile+(0.0766)Phe+(-0.1792)Trp;0.829,0.853,0.826,0.831,0.817,0.844,0.816,0.827,(6.1347)+(-0.0402)Asn+(0.0120)Gln+(-0.1048)His+(-0.0124)Arg+(0.0081)Pro+(-0.1006)Trp;0.829,0.857,0.805,0.788,0.787,0.868,0.844,0.822,(3.1488)+(0.0115)Gln+(-0.1075)His+(-0.0537)Cit+(-0.1981)Met+(0.1355)Ile+(-0.0460)Leu;0.829,0.856,0.798,0.794,0.760,0.839,0.860,0.813,(6.9760)+(-0.0490)Asn+(-0.0121)Arg+(-0.0375)Val+(0.1713)Ile+(-0.0184)Leu+(-0.1136)Trp;0.829,0.853,0.820,0.818,0.813,0.843,0.825,0.825,(5.5058)+(0.0100)Gln+(-0.1229)His+(-0.0022)Ala+(0.0102)Val+(0.0031)Lys+(-0.1126)Trp;0.829,0.852,0.803,0.791,0.766,0.867,0.870,0.823,(4.0094)+(-0.0567)Asn+(0.0092)Gln+(-0.1169)His+(-0.0064)Ala+(0.1170)Ile+(-0.0431)Leu;0.829,0.863,0.796,0.796,0.778,0.803,0.824,0.800,(3.7740)+(-0.0284)Arg+(0.0043)Lys+(0.1529)Ile+(-0.0835)Leu+(0.0749)Phe+(-0.1519)Trp;0.829,0.860,0.809,0.805,0.798,0.838,0.824,0.816,(4.0209)+(0.0043)Gln+(0.0227)Thr+(-0.0058)Ala+(-0.2284)Met+(0.0748)Ile+(-0.1543)Trp;0.829,0.858,0.808,0.794,0.807,0.849,0.820,0.817,(6.1311)+(0.0057)Gly+(-0.0067)Ala+(-0.0804)Cit+(-0.0796)Met+(0.0863)Ile+(-0.1474)Trp;0.829,0.857,0.803,0.798,0.789,0.833,0.826,0.811,(5.9063)+(-0.0059)Asn+(0.0020)Gly+(-0.1509)Met+(0.1527)Ile+(-0.0618)Leu+(-0.1237)Trp;0.829,0.855,0.801,0.808,0.788,0.854,0.772,0.805,(4.9397)+(0.0414)Ser+(-0.0904)Asn+(-0.0050)Ala+(-0.0100)Arg+(0.0129)Pro+(-0.1273)Trp;0.829,0.865,0.779,0.782,0.793,0.784,0.738,0.774,(0.8888)+(0.0339)Ser+(0.0020)Thr+(-0.0304)Arg+(0.0049)Orn+(0.0848)Phe+(-0.1756)Trp;0.829,0.855,0.820,0.813,0.815,0.847,0.831,0.826,(5.5561)+(0.0115)Gln+(-0.1248)His+(-0.0020)Ala+(-0.0124)Arg+

(0.0266)Leu+(-0.1129)Trp;0.829,0.853,0.732,0.697,0.708,0.843,0.795,0.761,(2.5915)+(0.0411)Ser+(-0.1366)His+(-0.0079)Ala+(0.0058)Pro+(-0.0151)Tyr+(0.0669)Ile;0.829,0.852,0.802,0.789,0.797,0.832,0.824,0.811,(5.4159)+(0.0012)Gly+(0.0093)Gln+(-0.1251)His+(-0.0113)Val+(0.0433)Leu+(-0.1151)Trp;0.829,0.860,0.814,0.804,0.812,0.824,0.837,0.819,(6.2841)+(-0.1054)His+(-0.0032)Ala+(-0.0086)Arg+(0.0083)Lys+(0.1064)Phe+(-0.1179)Trp;0.829,0.852,0.736,0.701,0.735,0.820,0.773,0.757,(0.2581)+(0.0429)Ser+(0.0050)Gln+(-0.1766)His+(-0.0162)Lys+(0.0104)Leu+(0.0912)Phe;0.829,0.862,0.809,0.797,0.813,0.811,0.830,0.813,(6.3298)+(-0.0166)Asn+(-0.1049)His+(-0.0073)Arg+(0.0080)Lys+(0.1001)Phe+(-0.1193)Trp;0.829,0.858,0.808,0.812,0.813,0.843,0.765,0.808,(4.6520)+(0.0411)Ser+(-0.0089)Gly+(0.0145)Thr+(-0.1908)Met+(0.0192)Orn+(-0.1428)Trp;0.829,0.856,0.780,0.754,0.780,0.822,0.815,0.793,(6.9474)+(-0.0078)Asn+(0.0044)Gly+(-0.0983)His+(0.0039)Tyr+(0.0669)Ile+(-0.1187)Trp;0.829,0.858,0.806,0.802,0.809,0.851,0.779,0.810,(8.7510)+(-0.0742)His+(0.0214)Thr+(-0.0046)Ala+(-0.0470)Cit+(0.0110)Pro+(-0.1139)Trp;0.829,0.860,0.780,0.784,0.768,0.769,0.800,0.780,(1.0597)+(0.0439)Ser+(-0.0095)Gly+(-0.0503)Tyr+(0.0044)Orn+(0.0938)Phe+(-0.1596)Trp;0.829,0.859,0.810,0.813,0.807,0.867,0.768,0.814,(4.7919)+(0.0310)Ser+(0.0081)Gln+(-0.1007)His+(-0.0300)Cit+(-0.0122)Arg+(-0.0991)Trp;0.829,0.865,0.801,0.793,0.801,0.801,0.821,0.804,(6.1627)+(-0.1011)His+(-0.0053)Arg+(0.0059)Pro+(-0.0201)Tyr+(0.1102)Phe+(-0.1117)Trp;0.829,0.854,0.740,0.714,0.719,0.831,0.789,0.763,(0.1792)+(0.0401)Ser+(0.0038)Gln+(-0.1689)His+(-0.0065)Ala+(0.0060)Pro+(0.0913)Phe;0.829,0.853,0.802,0.778,0.826,0.834,0.795,0.808,(7.0488)+(-0.0289)Asn+(-0.1120)Cit+(0.0480)Orn+(-0.0090)Lys+(0.0549)Ile+(-0.1607)Trp;0.829,0.862,0.822,0.814,0.829,0.863,0.799,0.826,(6.2926)+(0.0083)Gln+(-0.0891)His+(-0.0028)Ala+(-0.0786)Cit+(0.0510)Orn+(-0.1096)Trp;0.829,0.856,0.771,0.751,0.794,0.806,0.749,0.775,(4.243

1)+(-0.1441)His+(0.0472)Thr+(-0.0011)Ala+(-0.0148)Arg+(-0.3107)Met+(0.1435)Phe;0.829,0.855,0.802,0.787,0.793,0.845,0.830,0.814,(5.7186)+(0.0048)Gly+(-0.0085)Ala+(-0.0918)Cit+(0.0055)Arg+(0.0851)Ile+(-0.1618)Trp;0.829,0.853,0.732,0.701,0.737,0.809,0.752,0.750,(1.2704)+(0.0542)Ser+(-0.1135)Asn+(-0.1528)His+(0.0056)Thr+(0.0024)Pro+(0.1064)Phe;0.829,0.855,0.840,0.844,0.833,0.860,0.827,0.841,(6.1746)+(-0.0598)Asn+(0.0115)Gln+(-0.0936)His+(-0.0358)Cit+(0.0083)Lys+(-0.1050)Trp;0.829,0.860,0.782,0.775,0.769,0.831,0.793,0.792,(4.5239)+(0.0438)Ser+(-0.1314)Asn+(0.0080)Pro+(-0.0313)Val+(0.0593)Leu+(-0.1293)Trp;0.829,0.858,0.802,0.795,0.791,0.833,0.824,0.811,(5.6855)+(0.0014)Gly+(-0.1619)Met+(0.0111)Orn+(0.1506)Ile+(-0.0625)Leu+(-0.1246)Trp;0.829,0.857,0.811,0.813,0.827,0.859,0.740,0.810,(9.0295)+(0.0013)Gly+(-0.0738)His+(0.0319)Thr+(-0.0395)Cit+(-0.1095)Met+(-0.1044)Trp;0.829,0.855,0.808,0.799,0.824,0.846,0.771,0.810,(7.2262)+(0.0078)Thr+(-0.0086)Ala+(-0.1204)Cit+(0.0121)Pro+(0.0544)Orn+(-0.1545)Trp;0.829,0.853,0.744,0.708,0.721,0.841,0.817,0.772,(2.8558)+(0.0472)Ser+(-0.0046)Gly+(-0.1360)His+(-0.0066)Ala+(-0.0150)Tyr+(0.0715)Ile;0.829,0.863,0.798,0.794,0.802,0.796,0.799,0.798,(1.4286)+(0.0475)Ser+(-0.0078)Gly+(-0.0225)Arg+(-0.0076)Lys+(0.0877)Phe+(-0.1649)Trp;0.829,0.863,0.808,0.801,0.801,0.819,0.836,0.814,(6.0211)+(-0.1066)His+(-0.0026)Ala+(-0.0150)Tyr+(0.0075)Lys+(0.1116)Phe+(-0.1141)Trp;0.829,0.863,0.823,0.809,0.826,0.836,0.841,0.828,(6.6701)+(-0.0876)His+(-0.0039)Ala+(-0.0564)Cit+(0.0041)Val+(0.1181)Phe+(-0.1270)Trp;0.829,0.865,0.757,0.745,0.763,0.777,0.762,0.761,(0.3207)+(0.0376)Ser+(-0.0003)Gln+(-0.0320)Arg+(0.0468)Ile+(0.0642)Phe+(-0.1865)Trp;0.829,0.858,0.763,0.772,0.758,0.766,0.749,0.761,(0.7753)+(0.0326)Ser+(-0.0011)Gln+(-0.0001)Thr+(-0.0415)Tyr+(0.0974)Phe+(-0.1643)Trp;0.829,0.856,0.820,0.820,0.820,0.854,0.796,0.822,(6.1995)+(0.0086)Gln+(-0.1052)His+(0.0149)Thr+(-0.0425)Cit+(0.0094)Tyr+(-0.1158)Trp

;0.829,0.853,0.784,0.759,0.812,0.830,0.760,0.790,(5.9489)+(0.0044)Gly+(-0.1241)Cit+(0.0465)Orn+(-0.0128)Lys+(0.0622)Ile+(-0.1672)Trp;0.829,0.853,0.744,0.715,0.727,0.832,0.794,0.767,(0.1143)+(0.0396)Ser+(0.0042)Gln+(-0.1739)His+(-0.0055)Ala+(0.0081)Leu+(0.0873)Phe;0.829,0.851,0.835,0.834,0.853,0.855,0.784,0.832,(6.3175)+(-0.0803)Asn+(0.0071)Gln+(-0.1129)Cit+(0.0536)Orn+(-0.0029)Lys+(-0.1480)Trp;0.829,0.850,0.719,0.675,0.712,0.810,0.787,0.746,(-0.6250)+(0.0419)Ser+(0.0042)Gln+(-0.1789)His+(-0.0081)Thr+(0.0364)Ile+(0.0669)Phe;0.829,0.858,0.715,0.668,0.720,0.816,0.755,0.740,(0.5365)+(0.0541)Ser+(-0.1592)His+(-0.0190)Arg+(-0.0150)Lys+(0.0483)Ile+(0.0873)Phe;0.829,0.858,0.781,0.767,0.812,0.830,0.715,0.781,(4.2732)+(0.0294)Ser+(-0.1175)Cit+(-0.0121)Tyr+(0.0462)Orn+(0.0139)Leu+(-0.1740)Trp;0.829,0.855,0.823,0.833,0.830,0.861,0.754,0.820,(4.0934)+(0.0313)Ser+(0.0042)Gln+(-0.0644)Cit+(-0.1338)Met+(0.0034)Lys+(-0.1392)Trp;0.829,0.855,0.790,0.778,0.820,0.835,0.723,0.789,(4.3930)+(0.0303)Ser+(-0.0047)Thr+(-0.1159)Cit+(0.0025)Val+(0.0490)Orn+(-0.1665)Trp;0.829,0.853,0.737,0.705,0.737,0.821,0.764,0.757,(0.3924)+(0.0413)Ser+(0.0044)Gln+(-0.1732)His+(0.0127)Orn+(-0.0151)Lys+(0.0974)Phe;0.829,0.852,0.814,0.814,0.810,0.843,0.805,0.818,(5.8834)+(0.0000)Gly+(0.0086)Gln+(-0.1111)His+(-0.0017)Ala+(0.0270)Orn+(-0.1010)Trp;0.829,0.856,0.792,0.778,0.806,0.832,0.771,0.797,(6.4000)+(-0.0704)Asn+(0.0040)Gly+(0.0166)Thr+(-0.0883)Cit+(0.0615)Ile+(-0.1692)Trp;0.829,0.858,0.797,0.794,0.801,0.857,0.751,0.801,(6.0039)+(0.0394)Ser+(-0.0881)His+(-0.0117)Arg+(-0.0812)Met+(0.0134)Lys+(-0.0985)Trp;0.829,0.857,0.782,0.771,0.791,0.824,0.758,0.786,(7.7079)+(-0.0994)His+(0.0157)Thr+(0.0051)Pro+(-0.0078)Tyr+(0.0276)Orn+(-0.1070)Trp;0.829,0.865,0.800,0.799,0.783,0.810,0.831,0.806,(3.9291)+(-0.0248)Arg+(-0.0031)Pro+(0.1555)Ile+(-0.0811)Leu+(0.0770)Phe+(-0.1485)Trp;0.829,0.862,0.785,0.794,0.765,0.803,0.787,

0.787,(0.7968)+(0.0309)Ser+(-0.0054)Ala+(-0.0312)Tyr+(0.0043)Orn+(0.0980)Phe+(-0.1583)Trp;0.829,0.855,0.753,0.746,0.742,0.817,0.748,0.763,(-0.2239)+(0.0422)Ser+(0.0073)Gln+(-0.1674)His+(-0.0292)Arg+(-0.0426)Tyr+(0.1251)Phe;0.829,0.854,0.743,0.718,0.746,0.813,0.752,0.757,(1.3823)+(0.0582)Ser+(-0.0923)Asn+(-0.1473)His+(-0.0163)Arg+(0.0011)Leu+(0.1128)Phe;0.829,0.851,0.776,0.754,0.733,0.852,0.867,0.801,(6.3144)+(-0.0654)Asn+(-0.0713)His+(-0.0060)Ala+(-0.0419)Val+(0.0327)Orn+(0.1488)Ile;0.829,0.860,0.743,0.704,0.747,0.841,0.768,0.765,(2.3281)+(0.0530)Ser+(0.0012)Asn+(-0.1248)His+(-0.0085)Arg+(-0.2087)Met+(0.0832)Ile;0.829,0.859,0.804,0.797,0.803,0.856,0.784,0.810,(5.9050)+(0.0442)Ser+(-0.0046)Gly+(-0.0850)His+(-0.0844)Met+(0.0101)Lys+(-0.0998)Trp;0.829,0.858,0.784,0.753,0.793,0.823,0.820,0.797,(7.4402)+(0.0022)Asn+(-0.0988)His+(-0.0067)Arg+(0.0251)Orn+(0.0593)Ile+(-0.1199)Trp;0.829,0.856,0.738,0.701,0.726,0.843,0.788,0.764,(3.0755)+(0.0459)Ser+(-0.0675)Asn+(-0.1184)His+(-0.0050)Lys+(0.1075)Ile+(-0.0328)Leu;0.829,0.855,0.802,0.784,0.817,0.826,0.798,0.806,(6.8166)+(-0.0641)Asn+(0.0184)Thr+(-0.0823)Cit+(0.0003)Pro+(0.0583)Ile+(-0.1712)Trp;0.829,0.855,0.787,0.772,0.740,0.859,0.872,0.811,(4.5625)+(-0.0072)Ala+(0.0075)Pro+(-0.0549)Val+(-0.2606)Met+(0.0232)Orn+(0.1890)Ile;0.829,0.855,0.810,0.809,0.812,0.837,0.793,0.812,(5.8325)+(0.0101)Gln+(-0.1148)His+(-0.0190)Arg+(0.0065)Pro+(0.0254)Orn+(-0.1044)Trp;0.829,0.852,0.794,0.773,0.816,0.819,0.789,0.799,(4.5199)+(0.0031)Gln+(0.0034)Thr+(-0.1162)Cit+(0.0330)Orn+(0.0520)Ile+(-0.1886)Trp;0.829,0.861,0.835,0.846,0.837,0.799,0.825,0.827,(1.6748)+(0.0068)Gln+(-0.0120)Arg+(0.0074)Pro+(-0.2528)Met+(0.1124)Phe+(-0.1500)Trp;0.829,0.855,0.804,0.796,0.819,0.849,0.760,0.806,(7.0035)+(0.0031)Gly+(-0.0085)Ala+(-0.1235)Cit+(0.0133)Pro+(0.0581)Orn+(-0.1501)Trp;0.829,0.853,0.806,0.806,0.820,0.845,0.748,0.805,(5.5391)+(0.0414)Ser+(-0.0848)Asn+(-0.0708)Cit+(0.0055)Val+(0.0018)Lys+(-0.

1451)Trp;0.829,0.853,0.796,0.785,0.745,0.872,0.876,0.820,(3.5836)+(0.0026)Gln+(-0.0058)Ala+(-0.0544)Val+(-0.2726)Met+(0.0220)Orn+(0.1935)Ile;0.829,0.859,0.786,0.793,0.793,0.834,0.719,0.785,(3.7097)+(0.0407)Ser+(-0.0139)Arg+(0.0117)Pro+(-0.1863)Met+(0.0189)Orn+(-0.1340)Trp;0.829,0.857,0.781,0.764,0.757,0.826,0.844,0.798,(2.4280)+(0.0403)Ser+(-0.0066)Gly+(-0.0083)Ala+(-0.0090)Tyr+(0.0725)Ile+(-0.1609)Trp;0.829,0.853,0.813,0.804,0.828,0.852,0.779,0.816,(7.6491)+(-0.0072)Ala+(-0.1126)Cit+(0.0133)Pro+(-0.0550)Met+(0.0578)Orn+(-0.1402)Trp;0.829,0.857,0.802,0.798,0.818,0.836,0.754,0.802,(8.8627)+(-0.0931)His+(0.0336)Thr+(-0.0087)Arg+(0.0087)Val+(-0.1222)Met+(-0.1097)Trp;0.829,0.854,0.771,0.752,0.732,0.821,0.870,0.794,(4.7267)+(-0.0794)Asn+(-0.0842)His+(-0.0399)Val+(0.1405)Ile+(-0.0133)Leu+(0.0791)Phe;0.829,0.862,0.793,0.788,0.803,0.786,0.790,0.792,(1.3775)+(0.0442)Ser+(-0.0075)Gly+(-0.0285)Arg+(0.0073)Orn+(0.0782)Phe+(-0.1720)Trp;0.829,0.860,0.778,0.783,0.766,0.768,0.798,0.779,(1.1537)+(0.0450)Ser+(-0.0092)Gly+(-0.0006)Gln+(-0.0488)Tyr+(0.0968)Phe+(-0.1592)Trp;0.829,0.856,0.766,0.761,0.746,0.814,0.788,0.777,(2.7764)+(0.0260)Ser+(-0.0028)Pro+(-0.0174)Tyr+(0.1456)Ile+(-0.0620)Leu+(-0.1471)Trp;0.829,0.856,0.798,0.781,0.776,0.854,0.845,0.814,(3.2708)+(0.0101)Gln+(-0.1182)His+(0.0004)Pro+(-0.2011)Met+(0.1255)Ile+(-0.0424)Leu;0.829,0.854,0.813,0.806,0.812,0.835,0.813,0.817,(5.2812)+(0.0013)Gly+(0.0099)Gln+(-0.1278)His+(0.0098)Tyr+(0.0094)Val+(-0.1158)Trp;0.829,0.865,0.787,0.782,0.783,0.781,0.811,0.789,(1.3154)+(0.0412)Ser+(-0.0077)Gly+(-0.0012)Gln+(-0.0068)Val+(0.0808)Phe+(-0.1661)Trp;0.829,0.859,0.781,0.766,0.737,0.839,0.868,0.803,(4.0246)+(-0.1100)His+(-0.0079)Ala+(-0.0016)Lys+(0.1256)Ile+(-0.0599)Leu+(0.0775)Phe;0.829,0.856,0.740,0.702,0.730,0.849,0.785,0.766,(2.7360)+(0.0439)Ser+(-0.1397)His+(-0.0071)Ala+(-0.0186)Arg+(0.0161)Orn+(0.0683)Ile;0.829,0.862,0.836,0.846,0.827,0.811,0.846,0.832,(1.8538)+(0.0058)Gln

+(-0.0049)Ala+(0.0102)Pro+(-0.2374)Met+(0.1117)Phe+(-0.1462)Trp;0.829,0.857,0.822,0.825,0.817,0.853,0.804,0.825,(5.8048)+(0.0095)Gln+(-0.1051)His+(-0.0005)Ala+(-0.0675)Met+(0.0279)Orn+(-0.0964)Trp;0.829,0.857,0.820,0.823,0.812,0.847,0.809,0.823,(5.6488)+(0.0009)Gly+(0.0105)Gln+(-0.1018)His+(0.0099)Pro+(-0.0953)Met+(-0.0983)Trp;0.829,0.857,0.790,0.771,0.816,0.841,0.746,0.793,(7.9963)+(-0.0805)His+(0.0146)Thr+(-0.0793)Cit+(0.0051)Pro+(0.0485)Orn+(-0.1219)Trp;0.829,0.856,0.789,0.778,0.781,0.839,0.800,0.799,(5.6093)+(0.0039)Gly+(-0.0808)Cit+(-0.0004)Pro+(0.1479)Ile+(-0.0585)Leu+(-0.1508)Trp;0.829,0.853,0.795,0.788,0.797,0.834,0.785,0.801,(8.1451)+(-0.0976)His+(0.0195)Thr+(-0.0044)Ala+(0.0077)Pro+(0.0072)Val+(-0.1146)Trp;0.829,0.857,0.814,0.803,0.839,0.855,0.762,0.815,(4.2379)+(0.0413)Ser+(-0.0713)Cit+(0.0346)Tyr+(0.0078)Val+(-0.1778)Met+(-0.1536)Trp;0.829,0.853,0.738,0.697,0.718,0.849,0.807,0.768,(2.3462)+(0.0416)Ser+(-0.1428)His+(-0.0038)Thr+(-0.0075)Ala+(0.0125)Orn+(0.0679)Ile;0.829,0.854,0.829,0.831,0.824,0.844,0.824,0.831,(5.8044)+(-0.0314)Asn+(0.0124)Gln+(-0.1165)His+(-0.0110)Arg+(0.0089)Val+(-0.1069)Trp;0.829,0.853,0.837,0.845,0.828,0.856,0.824,0.838,(6.1380)+(-0.0393)Asn+(0.0117)Gln+(-0.0987)His+(0.0007)Ala+(-0.0369)Met+(-0.0953)Trp;0.829,0.861,0.744,0.704,0.747,0.842,0.769,0.766,(2.3468)+(0.0532)Ser+(-0.1244)His+(-0.0082)Arg+(-0.2065)Met+(-0.0005)Lys+(0.0834)Ile;0.829,0.857,0.810,0.802,0.811,0.833,0.811,0.814,(5.4444)+(0.0091)Gln+(-0.1253)His+(0.0038)Tyr+(0.0074)Val+(0.0184)Orn+(-0.1130)Trp;0.829,0.856,0.804,0.799,0.804,0.832,0.796,0.808,(5.6344)+(0.0083)Gln+(-0.1160)His+(0.0055)Pro+(0.0011)Tyr+(0.0215)Orn+(-0.1063)Trp;0.829,0.864,0.759,0.747,0.764,0.778,0.765,0.764,(0.2601)+(0.0372)Ser+(-0.0321)Arg+(-0.0008)Pro+(0.0476)Ile+(0.0641)Phe+(-0.1867)Trp;0.829,0.857,0.791,0.768,0.782,0.831,0.844,0.806,(3.7189)+(-0.0856)His+(-0.0435)Cit+(-0.2341)Met+(0.1470)Ile+(-0.0725)Leu+(0.1236)Phe;0.829,0.856,0.77

8,0.766,0.760,0.835,0.806,0.792,(2.4319)+(0.0358)Ser+(-0.0085)Ala+(-0.0225)Arg+(0.0065)Orn+(0.0751)Ile+(-0.1590)Trp;0.829,0.855,0.774,0.758,0.787,0.833,0.747,0.781,(5.3646)+(0.0415)Ser+(-0.1082)His+(-0.0115)Arg+(0.0110)Val+(0.0042)Lys+(-0.1097)Trp;0.829,0.853,0.812,0.801,0.826,0.849,0.782,0.815,(7.6699)+(-0.0080)Ala+(-0.1202)Cit+(0.0128)Pro+(0.0606)Orn+(-0.0035)Lys+(-0.1450)Trp;0.829,0.858,0.841,0.850,0.831,0.861,0.823,0.841,(4.2077)+(0.0455)Ser+(-0.0799)Asn+(-0.0079)Gly+(0.0055)Gln+(-0.0953)Met+(-0.1329)Trp;0.829,0.854,0.738,0.704,0.741,0.816,0.768,0.757,(1.2659)+(0.0562)Ser+(-0.1061)Asn+(-0.0016)Gly+(-0.1508)His+(0.0137)Orn+(0.1034)Phe;0.829,0.853,0.784,0.769,0.800,0.822,0.767,0.789,(7.6604)+(-0.1076)His+(0.0162)Thr+(0.0050)Val+(0.0249)Orn+(0.0014)Lys+(-0.1144)Trp;0.829,0.857,0.807,0.804,0.804,0.856,0.789,0.813,(6.5801)+(0.0483)Ser+(-0.0376)Asn+(-0.0051)Gly+(-0.0749)His+(-0.0268)Met+(-0.0932)Trp;0.829,0.860,0.847,0.852,0.849,0.831,0.842,0.843,(3.4683)+(-0.0911)Asn+(0.0082)Gln+(-0.0942)Cit+(0.0018)Leu+(0.0913)Phe+(-0.1660)Trp;0.829,0.854,0.805,0.800,0.791,0.826,0.834,0.813,(5.9906)+(-0.0529)Asn+(-0.0031)Pro+(0.0124)Orn+(0.1394)Ile+(-0.0638)Leu+(-0.1326)Trp;0.829,0.852,0.811,0.813,0.805,0.836,0.798,0.813,(6.0413)+(-0.0011)Gly+(0.0082)Gln+(-0.1151)His+(0.0135)Thr+(0.0021)Lys+(-0.1090)Trp;0.829,0.854,0.836,0.844,0.826,0.861,0.819,0.837,(6.1367)+(-0.0403)Asn+(0.0010)Gly+(0.0115)Gln+(-0.0984)His+(-0.0327)Met+(-0.0948)Trp;0.829,0.868,0.833,0.820,0.846,0.835,0.839,0.835,(6.4184)+(-0.0805)His+(-0.0462)Cit+(0.0096)Tyr+(-0.1275)Met+(0.1347)Phe+(-0.1185)Trp;0.829,0.863,0.832,0.841,0.845,0.804,0.799,0.822,(3.4719)+(-0.1123)Asn+(0.0059)Gln+(0.0212)Thr+(-0.0237)Arg+(0.0818)Phe+(-0.1703)Trp;0.829,0.862,0.824,0.833,0.828,0.804,0.804,0.817,(5.0226)+(-0.1178)Asn+(0.0200)Thr+(-0.0122)Val+(0.0121)Orn+(0.0912)Phe+(-0.1436)Trp;0.829,0.858,0.785,0.754,0.793,0.823,0.821,0.798,(7.4710)+(-0.0983)His+(-0.0063)Arg+(-0.0003)Pr

o+(0.0253)Orn+(0.0594)Ile+(-0.1196)Trp;0.829,0.855,0.796,0.790,0.826,0.841,0.715,0.793,(4.5717)+(0.0275)Ser+(0.0014)Gln+(-0.1083)Cit+(-0.0117)Arg+(0.0491)Orn+(-0.1645)Trp;0.829,0.851,0.734,0.702,0.736,0.808,0.761,0.752,(1.1493)+(0.0560)Ser+(-0.1074)Asn+(-0.1502)His+(0.0030)Pro+(0.0002)Leu+(0.1063)Phe;0.829,0.861,0.803,0.800,0.808,0.867,0.756,0.808,(6.7874)+(0.0427)Ser+(-0.0475)Asn+(-0.0692)His+(-0.0370)Cit+(0.0011)Arg+(-0.0972)Trp;0.829,0.857,0.796,0.792,0.806,0.858,0.744,0.800,(6.3011)+(0.0403)Ser+(-0.0752)His+(0.0013)Ala+(-0.0327)Cit+(-0.0554)Met+(-0.0967)Trp;0.829,0.856,0.808,0.822,0.812,0.854,0.733,0.805,(5.5824)+(0.0332)Ser+(-0.0696)Asn+(0.0169)Thr+(-0.0004)Ala+(-0.1199)Met+(-0.1355)Trp;0.829,0.853,0.784,0.765,0.800,0.828,0.770,0.791,(6.0181)+(0.0028)Gly+(0.0147)Thr+(-0.0946)Cit+(-0.0125)Lys+(0.0714)Ile+(-0.1740)Trp;0.829,0.855,0.807,0.811,0.815,0.846,0.754,0.806,(8.7909)+(0.0001)Gly+(-0.0832)His+(0.0308)Thr+(0.0003)Ala+(-0.1151)Met+(-0.1023)Trp;0.829,0.853,0.739,0.701,0.721,0.851,0.792,0.766,(2.6356)+(0.0458)Ser+(-0.1354)His+(-0.0082)Ala+(-0.0176)Arg+(0.0058)Pro+(0.0677)Ile;0.828,0.857,0.708,0.676,0.694,0.799,0.759,0.732,(0.5012)+(0.0430)Ser+(-0.1617)His+(-0.0525)Tyr+(0.0086)Orn+(0.0398)Ile+(0.0935)Phe;0.828,0.857,0.798,0.789,0.815,0.836,0.760,0.800,(4.1038)+(0.0423)Ser+(-0.0670)Cit+(-0.1485)Met+(-0.0020)Lys+(0.0274)Leu+(-0.1479)Trp;0.828,0.854,0.745,0.719,0.748,0.814,0.757,0.759,(1.4485)+(0.0593)Ser+(-0.0915)Asn+(-0.0010)Gly+(-0.1462)His+(-0.0161)Arg+(0.1130)Phe;0.828,0.853,0.746,0.734,0.723,0.817,0.772,0.762,(0.2461)+(0.0390)Ser+(0.0043)Gln+(-0.1635)His+(-0.0028)Ala+(-0.0385)Tyr+(0.1146)Phe;0.828,0.862,0.779,0.769,0.780,0.764,0.816,0.782,(0.6569)+(0.0425)Ser+(-0.0076)Gly+(-0.0064)Thr+(0.0031)Pro+(0.0665)Phe+(-0.1743)Trp;0.828,0.861,0.746,0.706,0.749,0.841,0.781,0.769,(2.3686)+(0.0564)Ser+(-0.0025)Gly+(-0.1235)His+(-0.0080)Arg+(-0.2058)Met+(0.0820)Ile;0.828,0.856,0.800,0.777,0.790,0.838,0.854

,0.815,(7.7156)+(-0.0886)His+(-0.0050)Ala+(-0.0025)Arg+(0.0046)Lys+(0.0719)Ile+(-0.1189)Trp;0.828,0.854,0.813,0.810,0.824,0.853,0.770,0.814,(8.6956)+(-0.0847)His+(0.0305)Thr+(-0.0004)Ala+(0.0251)Tyr+(-0.1445)Met+(-0.1095)Trp;0.828,0.864,0.782,0.787,0.794,0.787,0.739,0.777,(0.8689)+(0.0347)Ser+(-0.0295)Arg+(0.0063)Orn+(-0.0021)Leu+(0.0864)Phe+(-0.1726)Trp;0.828,0.857,0.764,0.759,0.743,0.812,0.785,0.775,(2.7557)+(0.0262)Ser+(-0.0189)Tyr+(-0.0022)Orn+(0.1416)Ile+(-0.0611)Leu+(-0.1472)Trp;0.828,0.854,0.759,0.750,0.715,0.809,0.840,0.778,(2.5594)+(0.0052)Gln+(-0.1260)His+(-0.0460)
Tyr+(-0.0303)Val+(0.1065)Ile+(0.0849)Phe;0.828,0.852,0.776,0.766,0.742,0.812,0.850,0.793,(4.8986)+(-0.0013)Gly+(0.0003)Gln+(-0.0417)Val+(0.0121)Orn+(0.1456)Ile+(-0.1391)Trp;0.828,0.851,0.795,0.768,0.820,0.829,0.791,0.802,(6.5671)+(-0.1164)Cit+(0.0001)Pro+(0.0474)Orn+(-0.0119)Lys+(0.0581)Ile+(-0.1659)Trp;0.828,0.862,0.805,0.786,0.816,0.813,0.822,0.810,(6.2551)+(-0.0904)His+(-0.0548)Cit+(0.0053)Pro+(0.0005)Val+(0.1096)Phe+(-0.1291)Trp;0.828,0.861,0.825,0.832,0.830,0.805,0.807,0.819,(5.0367)+(-0.1151)Asn+(0.0001)Gly+(0.0218)Thr+(-0.0109)Val+(0.0953)Phe+(-0.1475)Trp;0.828,0.861,0.770,0.748,0.761,0.838,0.802,0.787,(5.9330)+(-0.1085)His+(0.0281)Thr+(-0.0057)Tyr+(-0.2317)Met+(0.1240)Ile+(-0.0388)Leu;0.828,0.859,0.798,0.783,0.750,0.867,0.887,0.822,(5.6554)+(-0.0089)Ala+(-0.0536)Cit+(0.0107)Pro+(-0.0509)Val+(-0.2143)Met+(0.1902)Ile;0.828,0.850,0.775,0.765,0.739,0.812,0.848,0.791,(4.9456)+(-0.0019)Gly+(0.0003)Gln+(0.0067)Thr+(-0.0414)Val+(0.1470)Ile+(-0.1430)Trp;0.828,0.862,0.802,0.789,0.784,0.822,0.861,0.814,(3.7435)+(0.0142)Thr+(-0.0099)Ala+(-0.0131)Lys+(0.0615)Ile+(0.0643)Phe+(-0.1713)Trp;0.828,0.861,0.798,0.788,0.788,0.835,0.820,0.808,(5.4767)+(0.0243)Thr+(-0.0069)Ala+(0.0058)Pro+(-0.2147)Met+(0.0707)Ile+(-0.1482)Trp;0.828,0.860,0.778,0.768,0.775,0.829,0.774,0.786,(3.0165)+(0.0447)Ser+(-0.1013)As

n+(-0.0157)Arg+(0.0078)Orn+(0.0570)Ile+(-0.1502)Trp;0.828,0.856,0.777,0.771,0.746,0.830,0.817,0.791,(5.2303)+(0.0022)Gln+(0.0174)Thr+(-0.0356)Arg+(-0.0452)Val+(0.1613)Ile+(-0.1408)Trp;0.828,0.855,0.792,0.763,0.798,0.823,0.832,0.804,(7.6657)+(-0.0765)His+(-0.0452)Cit+(0.0019)Pro+(0.0015)Lys+(0.0658)Ile+(-0.1294)Trp;0.828,0.854,0.799,0.791,0.743,0.870,0.885,0.822,(3.6145)+(0.0036)Gln+(-0.0073)Ala+(0.0084)Pro+(-0.0524)Val+(-0.2776)Met+(0.1884)Ile;0.828,0.858,0.795,0.795,0.805,0.841,0.743,0.796,(3.5624)+(0.0440)Ser+(-0.0116)Arg+(0.0121)Pro+(0.0265)Tyr+(-0.2185)Met+(-0.1403)Trp;0.828,0.857,0.798,0.792,0.810,0.836,0.765,0.800,(5.0209)+(0.0433)Ser+(-0.0930)Asn+(-0.0751)Cit+(0.0040)Arg+(0.0205)Leu+(-0.1525)Trp;0.828,0.854,0.815,0.808,0.815,0.835,0.819,0.819,(5.3935)+(0.0114)Gln+(-0.1284)His+(-0.0156)Arg+(0.0034)Lys+(0.0232)Leu+(-0.1155)Trp;0.828,0.861,0.792,0.792,0.778,0.812,0.807,0.797,(0.8483)+(0.0318)Ser+(-0.0007)Gln+(-0.0014)Thr+(-0.0066)Ala+(0.0866)Phe+(-0.1639)Trp;0.828,0.857,0.793,0.786,0.824,0.839,0.713,0.790,(4.8556)+(0.0296)Ser+(-0.0012)Thr+(-0.1084)Cit+(-0.0098)Arg+(0.0508)Orn+(-0.1615)Trp;0.828,0.852,0.789,0.765,0.812,0.800,0.799,0.794,(4.1971)+(-0.1227)Cit+(-0.0013)Pro+(0.0353)Orn+(0.0427)Ile+(0.0586)Phe+(-0.1905)Trp;0.828,0.852,0.789,0.769,0.810,0.822,0.773,0.793,(4.2868)+(0.0026)Gly+(0.0030)Gln+(-0.1195)Cit+(0.0345)Orn+(0.0538)Ile+(-0.1868)Trp;0.828,0.855,0.814,0.811,0.817,0.835,0.800,0.816,(5.6562)+(0.0106)Gln+(-0.1224)His+(-0.0167)Arg+(0.0069)Val+(0.0234)Orn+(-0.1088)Trp;0.828,0.853,0.738,0.707,0.740,0.812,0.762,0.755,(1.4531)+(0.0554)Ser+(-0.1111)Asn+(-0.0015)Gly+(-0.1524)His+(0.0068)Thr+(0.1070)Phe;0.828,0.852,0.795,0.792,0.791,0.833,0.784,0.800,(7.9989)+(-0.0928)His+(0.0171)Thr+(-0.0040)Ala+(0.0092)Pro+(0.0055)Lys+(-0.1104)Trp;0.828,0.850,0.776,0.754,0.790,0.810,0.780,0.783,(7.7440)+(-0.1118)His+(0.0214)Thr+(0.0024)Pro+(-0.0015)Lys+(0.0245)Leu+(-0.1232)Trp;0.828,0.857,0.797,0.788,0.750,0

.877,0.864,0.820,(4.9268)+(0.0048)Gly+(-0.0068)Ala+(-0.0583)Cit+(-0.0496)Val+(-0.2168)Met+(0.1969)Ile;0.828,0.860,0.782,0.789,0.770,0.769,0.799,0.782,(1.0570)+(0.0443)Ser+(-0.0093)Gly+(-0.0492)Tyr+(-0.0015)Leu+(0.0976)Phe+(-0.1588)Trp;0.828,0.858,0.761,0.750,0.743,0.813,0.792,0.775,(2.5210)+(0.0284)Ser+(-0.0009)Gln+(-0.0056)Orn+(0.1411)Ile+(-0.0619)Leu+(-0.1542)Trp;0.828,0.857,0.826,0.820,0.822,0.847,0.834,0.831,(5.3486)+(0.0120)Gln+(-0.1196)His+(-0.0083)Arg+(-0.0774)Met+(0.0274)Leu+(-0.1081)Trp;0.828,0.864,0.824,0.833,0.838,0.808,0.784,0.816,(5.3510)+(-0.0993)Asn+(0.0268)Thr+(-0.0199)Arg+(-0.0108)Val+(0.1015)Phe+(-0.1506)Trp;0.828,0.861,0.771,0.745,0.762,0.841,0.806,0.788,(5.7033)+(-0.1107)His+(0.0269)Thr+(-0.2472)Met+(0.0039)Lys+(0.1251)Ile+(-0.0410)Leu;0.828,0.855,0.778,0.751,0.778,0.820,0.815,0.791,(6.8536)+(0.0042)Gly+(-0.1001)His+(-0.0000)Pro+(0.0032)Tyr+(0.0674)Ile+(-0.1195)Trp;0.828,0.852,0.735,0.695,0.729,0.835,0.783,0.760,(1.6750)+(0.0384)Ser+(0.0051)Gln+(-0.1551)His+(-0.0025)Thr+(-0.0132)Lys+(0.0621)Ile;0.828,0.865,0.849,0.854,0.859,0.826,0.833,0.843,(1.8779)+(0.0083)Gln+(-0.0865)Cit+(0.0037)Tyr+(-0.2157)Met+(0.1267)Phe+(-0.1580)Trp;0.828,0.855,0.781,0.770,0.761,0.837,0.812,0.795,(2.2060)+(0.0349)Ser+(0.0011)Gln+(-0.0085)Ala+(-0.0224)Arg+(0.0770)Ile+(-0.1605)Trp;0.828,0.861,0.818,0.823,0.807,0.815,0.828,0.818,(4.8838)+(-0.0937)Asn+(0.0196)Thr+(-0.0080)Ala+(0.0067)Pro+(0.0845)Phe+(-0.1563)Trp;0.828,0.857,0.799,0.793,0.811,0.838,0.761,0.801,(5.0974)+(0.0437)Ser+(-0.0856)Asn+(-0.0722)Cit+(-0.0022)Lys+(0.0217)Leu+(-0.1510)Trp;0.828,0.855,0.799,0.794,0.800,0.853,0.774,0.805,(6.1090)+(0.0466)Ser+(-0.0053)Gly+(-0.0809)His+(0.0017)Ala+(-0.0650)Met+(-0.0950)Trp;0.828,0.858,0.803,0.795,0.815,0.844,0.770,0.806,(4.1431)+(0.0414)Ser+(-0.0021)Ala+(-0.0671)Cit+(-0.1401)Met+(0.0281)Leu+(-0.1464)Trp;0.828,0.862,0.793,0.787,0.793,0.785,0.816,0.795,(3.5890)+(0.0152)Thr+(-0.0300)Val+(-0.0120)Lys+(0.0509)Leu+

(0.0831)Phe+(-0.1767)Trp;0.828,0.861,0.794,0.795,0.778,0.812,0.809,0.799,(0.7033)+(0.0310)Ser+(-0.0025)Thr+(-0.0067)Ala+(0.0037)Orn+(0.0839)Phe+(-0.1641)Trp;0.828,0.856,0.762,0.735,0.775,0.827,0.760,0.774,(4.9572)+(0.0440)Ser+(-0.1128)His+(-0.0083)Arg+(-0.0008)Lys+(0.0316)Leu+(-0.1127)Trp;0.828,0.856,0.795,0.793,0.797,0.854,0.753,0.799,(6.5111)+(0.0421)Ser+(-0.0434)Asn+(-0.0811)His+(0.0010)Ala+(-0.0060)Arg+(-0.0931)Trp;0.828,0.852,0.744,0.710,0.742,0.842,0.768,0.765,(1.5441)+(0.0393)Ser+(0.0070)Gln+(-0.1572)His+(-0.0226)Arg+(-0.0088)Lys+(0.0617)Ile;0.828,0.858,0.777,0.766,0.773,0.831,0.778,0.787,(3.0400)+(0.0451)Ser+(-0.0992)Asn+(-0.0149)Arg+(0.0011)Pro+(0.0582)Ile+(-0.1506)Trp;0.828,0.858,0.770,0.756,0.743,0.823,0.824,0.787,(2.1483)+(0.0305)Ser+(-0.0101)Ala+(0.0055)Pro+(-0.0075)Tyr+(0.0689)Ile+(-0.1613)Trp;0.828,0.856,0.777,0.764,0.759,0.835,0.806,0.791,(2.5333)+(0.0349)Ser+(0.0031)Thr+(-0.0085)Ala+(-0.0227)Arg+(0.0770)Ile+(-0.1607)Trp;0.828,0.855,0.800,0.806,0.784,0.851,0.783,0.806,(4.8254)+(0.0402)Ser+(-0.1003)Asn+(-0.0052)Ala+(0.0127)Pro+(-0.0004)Val+(-0.1279)Trp;0.828,0.855,0.800,0.788,0.789,0.837,0.827,0.810,(6.2136)+(-0.0729)Cit+(-0.0003)Pro+(-0.0002)Lys+(0.1450)Ile+(-0.0583)Leu+(-0.1482)Trp;0.828,0.855,0.817,0.822,0.822,0.864,0.760,0.817,(6.0807)+(0.0400)Ser+(-0.0817)Asn+(-0.0008)Ala+(-0.0657)Cit+(0.0039)Arg+(-0.1316)Trp;0.828,0.856,0.817,0.821,0.830,0.854,0.753,0.815,(7.8744)+(0.0263)Thr+(-0.0049)Ala+(-0.0684)Cit+(0.0134)Pro+(-0.1536)Met+(-0.1371)Trp;0.828,0.856,0.742,0.699,0.734,0.859,0.790,0.771,(2.6721)+(0.0409)Ser+(-0.1289)His+(-0.0094)Ala+(-0.0757)Cit+(0.0338)Orn+(0.0691)Ile;0.828,0.852,0.812,0.813,0.807,0.840,0.800,0.815,(6.0483)+(-0.0010)Gly+(0.0084)Gln+(-0.1160)His+(0.0134)Thr+(0.0062)Tyr+(-0.1099)Trp;0.828,0.860,0.814,0.799,0.825,0.819,0.825,0.817,(6.5593)+(-0.0087)Asn+(-0.0889)His+(-0.0527)Cit+(0.0018)Val+(0.1127)Phe+(-0.1266)Trp;0.828,0.852,0.774,0.754,0.735,0.826,0.872,0.797,(4.

8876)+(-0.0808)Asn+(-0.0854)His+(-0.0025)Pro+(-0.0439)Val+(0.1351)Ile+(0.0783)Phe;0.828,0.860,0.800,0.780,0.798,0.817,0.843,0.809,(6.2665)+(-0.1040)His+(-0.0041)Arg+(-0.0170)Val+(0.0369)Leu+(0.0975)Phe+(-0.1189)Trp;0.828,0.859,0.763,0.749,0.747,0.819,0.790,0.776,(2.6127)+(0.0308)Ser+(-0.0006)Gln+(-0.0089)Lys+(0.1380)Ile+(-0.0564)Leu+(-0.1476)Trp;0.828,0.857,0.776,0.755,0.792,0.837,0.755,0.785,(5.3061)+(0.0426)Ser+(-0.1094)His+(-0.0109)Arg+(0.0145)Tyr+(0.0110)Val+(-0.1130)Trp;0.828,0.855,0.793,0.776,0.762,0.873,0.845,0.814,(3.5056)+(0.0037)Gln+(-0.0716)Cit+(-0.0538)Val+(-0.2864)Met+(0.0362)Orn+(0.1809)Ile;0.828,0.860,0.792,0.779,0.764,0.836,0.854,0.808,(6.4928)+(-0.0583)Cit+(-0.0060)Arg+(-0.0015)Tyr+(-0.0370)Val+(0.1518)Ile+(-0.1374)Trp;0.828,0.858,0.794,0.788,0.790,0.838,0.783,0.800,(3.3381)+(0.0412)Ser+(-0.0267)Val+(-0.2031)Met+(0.0015)Lys+(0.0657)Leu+(-0.1355)Trp;0.828,0.857,0.816,0.811,0.770,0.883,0.880,0.836,(3.8071)+(-0.0714)Asn+(0.0080)Gln+(-0.0555)Cit+(-0.0520)Val+(-0.2381)Met+(0.1846)Ile;0.828,0.857,0.804,0.795,0.754,0.872,0.885,0.827,(5.1365)+(-0.0064)Ala+(-0.0472)Cit+(-0.0530)Val+(-0.2375)Met+(0.0078)Lys+(0.1978)Ile;0.828,0.856,0.776,0.750,0.776,0.819,0.815,0.790,(6.7631)+(0.0041)Gly+(-0.1018)His+(0.0017)Tyr+(0.0026)Lys+(0.0660)Ile+(-0.1208)Trp;0.828,0.854,0.783,0.775,0.755,0.828,0.829,0.797,(5.1392)+(0.0023)Gln+(-0.0290)Arg+(-0.0445)Val+(0.0230)Orn+(0.1545)Ile+(-0.1326)Trp;0.828,0.850,0.740,0.711,0.734,0.819,0.768,0.758,(0.3266)+(0.0418)Ser+(0.0049)Gln+(-0.1734)His+(0.0006)Val+(-0.0140)Lys+(0.0996)Phe;0.828,0.859,0.766,0.736,0.758,0.852,0.802,0.787,(-0.0357)+(0.0482)Ser+(-0.0123)Ala+(-0.0905)Cit+(0.0136)Pro+(-0.2884)Met+(0.0798)Ile;0.828,0.856,0.816,0.799,0.823,0.842,0.831,0.824,(5.3238)+(0.0107)Gln+(-0.1185)His+(-0.0450)Cit+(0.0111)Tyr+(0.0269)Leu+(-0.1286)Trp;0.828,0.853,0.786,0.773,0.788,0.852,0.770,0.796,(5.5041)+(0.0368)Ser+(-0.1006)His+(-0.0013)Ala+(0.0195)Tyr+(0.0047)Lys+(-0.1066)T

rp;0.828,0.857,0.826,0.834,0.831,0.790,0.821,0.819,(4.2815)+(-0.0208)Asn+(0.0097)Pro+(-0.0085)Val+(-0.2026)Met+(0.1202)Phe+(-0.1318)Trp;0.828,0.855,0.787,0.779,0.817,0.838,0.707,0.785,(4.6332)+(0.0282)Ser+(-0.1156)Cit+(-0.0101)Tyr+(0.0025)Val+(0.0485)Orn+(-0.1647)Trp;0.828,0.854,0.760,0.742,0.749,0.839,0.774,0.776,(-0.1121)+(0.0422)Ser+(0.0070)Gln+(-0.1712)His+(-0.0041)Ala+(-0.0281)Arg+(0.1060)Phe;0.828,0.854,0.813,0.810,0.754,0.884,0.893,0.835,(3.9200)+(-0.0579)Asn+(0.0057)Gln+(-0.0050)Ala+(-0.0531)Val+(-0.2253)Met+(0.1924)Ile;0.828,0.853,0.728,0.685,0.703,0.831,0.820,0.760,(2.6598)+(0.0411)Ser+(-0.0064)Gly+(-0.1223)His+(-0.0319)Val+(0.0171)Orn+(0.1205)Ile;0.828,0.852,0.817,0.814,0.812,0.845,0.813,0.821,(5.8227)+(0.0087)Gln+(-0.1141)His+(-0.0023)Ala+(0.0115)Tyr+(0.0250)Orn+(-0.1051)Trp;0.828,0.858,0.803,0.795,0.796,0.834,0.814,0.810,(5.8256)+(-0.0223)Asn+(0.0265)Thr+(-0.0055)Ala+(-0.1923)Met+(0.0732)Ile+(-0.1482)Trp;0.828,0.857,0.813,0.810,0.812,0.794,0.836,0.813,(3.1301)+(-0.1204)Asn+(0.0048)Gln+(0.0128)Thr+(0.0345)Ile+(0.0545)Phe+(-0.1760)Trp;0.828,0.854,0.772,0.767,0.744,0.823,0.812,0.786,(5.9880)+(0.0180)Thr+(-0.0332)Arg+(-0.0396)Val+(0.1794)Ile+(-0.0208)Leu+(-0.1344)Trp;0.828,0

.858,0.787,0.795,0.789,0.830,0.733,0.787,(3.0596)+(0.0370)Ser+(0.0015)Gln+(0.0114)Pro+(-0.2068)Met+(0.0136)Orn+(-0.1381)Trp;0.828,0.856,0.816,0.815,0.824,0.851,0.776,0.816,(4.6895)+(0.0419)Ser+(-0.0080)Gly+(0.0170)Thr+(0.0235)Tyr+(-0.2181)Met+(-0.1493)Trp;0.828,0.855,0.798,0.771,0.806,0.828,0.831,0.809,(7.6353)+(0.0249)Asn+(-0.0730)His+(-0.0398)Cit+(-0.0870)Met+(0.0757)Ile+(-0.1195)Trp;0.828,0.855,0.724,0.702,0.719,0.805,0.737,0.741,(1.1246)+(0.0454)Ser+(-0.1535)His+(-0.0417)Tyr+(0.0209)Orn+(-0.0103)Lys+(0.1174)Phe;0.828,0.855,0.761,0.749,0.712,0.862,0.822,0.786,(3.3329)+(0.0440)Ser+(-0.1645)Asn+(-0.0511)Cit+(-0.0126)Tyr+(-0.0516)Val+(0.1705)Ile;0.828,0.857,0.797,0.789,0.807,0.837,

0.768,0.800,(8.4294)+(-0.0403)Asn+(-0.0920)His+(0.0204)Thr+(-0.0023)Tyr+(0.0296)Orn+(-0.1046)Trp;0.828,0.861,0.811,0.802,0.825,0.858,0.774,0.815,(5.9219)+(0.0022)Gly+(0.0079)Gln+(-0.0945)His+(-0.0776)Cit+(0.0479)Orn+(-0.1129)Trp;0.828,0.861,0.796,0.793,0.803,0.787,0.794,0.794,(1.2115)+(0.0440)Ser+(-0.0074)Gly+(0.0006)Gln+(-0.0277)Arg+(0.0815)Phe+(-0.1726)Trp;0.828,0.859,0.768,0.779,0.761,0.767,0.754,0.765,(0.5377)+(0.0311)Ser+(-0.0008)Thr+(-0.0415)Tyr+(-0.0009)Leu+(0.0970)Phe+(-0.1653)Trp;0.828,0.862,0.826,0.825,0.828,0.801,0.845,0.825,(1.4317)+(0.0067)Gln+(-0.0119)Arg+(-0.2635)Met+(0.0522)Ile+(0.0918)Phe+(-0.1577)Trp;0.828,0.852,0.787,0.766,0.788,0.848,0.795,0.799,(4.2731)+(0.0086)Gln+(-0.1401)His+(0.0349)Thr+(-0.0304)Val+(-0.2799)Met+(0.0744)Leu;0.828,0.860,0.803,0.801,0.795,0.843,0.792,0.808,(2.8358)+(0.0389)Ser+(0.0023)Gln+(-0.0264)Val+(-0.2107)Met+(0.0649)Leu+(-0.1372)Trp;0.828,0.858,0.774,0.765,0.765,0.822,0.785,0.784,(3.1428)+(0.0414)Ser+(-0.1147)Asn+(0.0034)Thr+(-0.0104)Tyr+(0.0580)Ile+(-0.1495)Trp;0.828,0.856,0.805,0.795,0.818,0.834,0.782,0.807,(4.1605)+(0.0484)Ser+(-0.0048)Gly+(-0.0601)Cit+(-0.1552)Met+(0.0254)Leu+(-0.1472)Trp;0.828,0.854,0.779,0.755,0.779,0.822,0.811,0.792,(7.0739)+(-0.0030)Asn+(0.0044)Gly+(-0.0968)His+(-0.0040)Arg+(0.0681)Ile+(-0.1171)Trp;0.828,0.851,0.736,0.703,0.738,0.810,0.767,0.754,(1.2201)+(0.0578)Ser+(-0.1057)Asn+(-0.0015)Gly+(-0.1495)His+(0.0031)Pro+(0.1051)Phe;0.828,0.860,0.809,0.798,0.821,0.837,0.795,0.812,(6.1294)+(0.0339)Thr+(0.0258)Tyr+(-0.0385)Val+(-0.2838)Met+(0.0787)Leu+(-0.1458)Trp;0.828,0.859,0.804,0.779,0.810,0.828,0.838,0.814,(7.8020)+(-0.0729)His+(-0.0370)Cit+(-0.0898)Met+(0.0070)Lys+(0.0697)Ile+(-0.1208)Trp;0.828,0.857,0.801,0.801,0.800,0.860,0.759,0.805,(6.5926)+(0.0419)Ser+(-0.0362)Asn+(-0.0778)His+(-0.0048)Arg+(-0.0222)Met+(-0.0910)Trp;0.828,0.855,0.772,0.764,0.743,0.824,0.815,0.786,(6.0136)+(0.0199)Thr+(-0.0318)Arg+(-0.0456)Val+(-0.0029)Lys+(0.16

51)Ile+(-0.1359)Trp;0.828,0.854,0.788,0.770,0.757,0.849,0.858,0.809,(6.0085)+(-0.0671)His+(-0.0427)Val+(-0.2443)Met+(0.0128)Lys+(0.1776)Ile+(-0.0097)Leu;0.828,0.853,0.802,0.784,0.773,0.853,0.872,0.820,(2.3958)+(-0.0682)Asn+(0.0107)Gln+(-0.1521)His+(-0.0063)Ala+(0.0400)Ile+(0.0612)Phe;0.828,0.857,0.795,0.790,0.789,0.842,0.788,0.802,(3.4008)+(0.0413)Ser+(-0.0009)Ala+(-0.0260)Val+(-0.1927)Met+(0.0661)Leu+(-0.1343)Trp;0.828,0.856,0.809,0.803,0.814,0.818,0.810,0.811,(4.6192)+(0.0160)Thr+(-0.0098)Ala+(-0.1011)Cit+(0.0109)Pro+(0.1001)Phe+(-0.1771)Trp;0.828,0.859,0.805,0.790,0.756,0.877,0.894,0.829,(5.2628)+(-0.0067)Ala+(-0.0563)Cit+(0.0090)Arg+(-0.0501)Val+(-0.2210)Met+(0.1959)Ile;0.828,0.858,0.804,0.777,0.812,0.831,0.838,0.814,(7.9530)+(-0.0666)His+(-0.0414)Cit+(0.0036)Pro+(-0.0747)Met+(0.0693)Ile+(-0.1206)Trp;0.828,0.856,0.799,0.802,0.802,0.840,0.754,0.799,(2.7618)+(0.0394)Ser+(0.0021)Gln+(0.0114)Pro+(0.0242)Tyr+(-0.2375)Met+(-0.1441)Trp;0.828,0.854,0.790,0.769,0.821,0.839,0.748,0.794,(8.0427)+(-0.0869)His+(0.0165)Thr+(-0.0787)Cit+(0.0055)Val+(0.0470)Orn+(-0.1254)Trp;0.828,0.863,0.852,0.866,0.843,0.822,0.851,0.845,(3.1762)+(-0.1039)Asn+(0.0010)Gly+(0.0060)Gln+(-0.0083)Val+(0.0907)Phe+(-0.1474)Trp;0.828,0.852,0.816,0.813,0.840,0.858,0.739,0.813,(7.5152)+(0.0200)Thr+(-0.0036)Ala+(-0.1046)Cit+(-0.1156)Met+(0.0514)Orn+(-0.1411)Trp;0.828,0.858,0.818,0.810,0.810,0.838,0.844,0.826,(1.1188)+(-0.0190)Asn+(0.0130)Gln+(-0.1499)His+(-0.0033)Val+(-0.2181)Met+(0.1291)Phe;0.828,0.857,0.805,0.797,0.792,0.834,0.832,0.814,(5.8839)+(0.0004)Pro+(-0.1588)Met+(0.0122)Orn+(0.1489)Ile+(-0.0623)Leu+(-0.1247)Trp;0.828,0.855,0.806,0.803,0.787,0.825,0.841,0.814,(6.0000)+(-0.0554)Asn+(-0.0023)Pro+(0.0049)Lys+(0.1420)Ile+(-0.0659)Leu+(-0.1357)Trp;0.828,0.853,0.809,0.800,0.839,0.838,0.747,0.806,(7.8993)+(-0.0746)Asn+(0.0138)Thr+(-0.1099)Cit+(0.0047)Pro+(0.0494)Orn+(-0.1542)Trp;0.828,0.857,0.772,0.754,0.786,0.819,0.757,0.779,(3.9741)+(

0.0332)Ser+(-0.0815)Cit+(0.0081)Pro+(-0.0168)Val+(0.0401)Leu+(-0.1726)Trp;0.828,0.856,0.789,0.778,0.780,0.838,0.798,0.799,(5.6928)+(0.0038)Gly+(-0.0798)Cit+(-0.0040)Tyr+(0.1476)Ile+(-0.0583)Leu+(-0.1489)Trp;0.828,0.851,0.741,0.702,0.725,0.852,0.798,0.769,(2.6452)+(0.0428)Ser+(-0.1284)His+(0.0019)Thr+(-0.0085)Ala+(-0.0521)Cit+(0.0763)Ile;0.828,0.858,0.810,0.807,0.815,0.840,0.788,0.812,(7.2999)+(-0.0570)Asn+(0.0365)Thr+(-0.0378)Val+(-0.2049)Met+(0.0781)Leu+(-0.1335)Trp;0.828,0.856,0.840,0.847,0.833,0.868,0.816,0.841,(6.2885)+(-0.0516)Asn+(0.0022)Gly+(0.0117)Gln+(-0.0885)His+(-0.0398)Cit+(-0.0998)Trp;0.828,0.853,0.828,0.833,0.820,0.848,0.815,0.829,(5.5829)+(0.0102)Gln+(-0.1058)His+(0.0006)Ala+(-0.0929)Met+(0.0103)Lys+(-0.1013)Trp;0.828,0.850,0.791,0.775,0.813,0.832,0.758,0.794,(6.1783)+(-0.0554)Asn+(0.0054)Gly+(-0.1152)Cit+(0.0425)Orn+(0.0525)Ile+(-0.1649)Trp;0.828,0.853,0.802,0.795,0.831,0.822,0.743,0.798,(7.0283)+(0.0281)Thr+(-0.0721)Cit+(0.0075)Pro+(-0.1983)Met+(0.0178)Leu+(-0.1560)Trp;0.828,0.856,0.846,0.845,0.844,0.866,0.837,0.848,(6.2674)+(-0.0542)Asn+(0.0120)Gln+(-0.0952)His+(-0.0395)Cit+(0.0220)Tyr+(-0.1092)Trp;0.828,0.855,0.766,0.736,0.798,0.813,0.742,0.772,(3.9449)+(-0.1398)His+(0.0408)Thr+(-0.0529)Cit+(-0.3089)Met+(0.0212)Orn+(0.1348)Phe;0.828,0.858,0.739,0.701,0.755,0.827,0.746,0.757,(1.3427)+(0.0553)Ser+(-0.1116)Asn+(-0.1393)His+(-0.0594)Cit+(0.0307)Orn+(0.1034)Phe;0.828,0.854,0.838,0.840,0.834,0.858,0.828,0.840,(6.1328)+(-0.0432)Asn+(0.0125)Gln+(-0.1089)His+(-0.0120)Arg+(0.0217)Tyr+(-0.1040)Trp;0.828,0.858,0.803,0.796,0.789,0.833,0.826,0.811,(5.8122)+(0.0019)Gly+(0.0011)Pro+(-0.1594)Met+(0.1517)Ile+(-0.0617)Leu+(-0.1242)Trp;0.828,0.854,0.844,0.849,0.837,0.865,0.828,0.845,(6.3750)+(-0.0487)Asn+(0.0120)Gln+(-0.0891)His+(0.0001)Ala+(-0.0370)Cit+(-0.0999)Trp;0.828,0.853,0.806,0.806,0.821,0.845,0.750,0.806,(5.5395)+(0.0413)Ser+(-0.0842)Asn+(-0.0736)Cit+(0.0033)Arg+(0.0060)Val+(-0.1452)Trp;0.82

8,0.852,0.737,0.709,0.728,0.832,0.763,0.758,(1.4022)+(0.0459)Ser+(-0.1564)His+(0.0048)Thr+(-0.0041)Ala+(-0.0117)Lys+(0.1076)Phe;0.828,0.858,0.782,0.787,0.785,0.825,0.731,0.782,(3.3201)+(0.0384)Ser+(0.0118)Pro+(-0.2106)Met+(0.0134)Orn+(0.0031)Lys+(-0.1395)Trp;0.828,0.858,0.815,0.820,0.826,0.861,0.748,0.814,(5.0468)+(0.0359)Ser+(-0.0669)Asn+(0.0152)Thr+(0.0271)Tyr+(-0.1652)Met+(-0.1440)Trp;0.828,0.856,0.797,0.808,0.797,0.838,0.736,0.795,(3.2896)+(0.0385)Ser+(0.0028)Gln+(-0.0126)Arg+(0.0126)Pro+(-0.1899)Met+(-0.1348)Trp;0.828,0.856,0.816,0.795,0.805,0.851,0.865,0.829,(6.7845)+(-0.0081)Ala+(-0.0892)Cit+(0.0140)Arg+(-0.0085)Lys+(0.0870)Ile+(-0.1539)Trp;0.828,0.854,0.791,0.771,0.805,0.826,0.792,0.799,(6.3908)+(0.0167)Thr+(-0.0900)Cit+(-0.0004)Pro+(-0.0124)Lys+(0.0697)Ile+(-0.1746)Trp;0.828,0.855,0.785,0.774,0.803,0.826,0.745,0.787,(8.2250)+(-0.0977)His+(0.0200)Thr+(-0.0173)Arg+(0.0051)Pro+(0.0295)Orn+(-0.1107)Trp;0.828,0.855,0.792,0.774,0.798,0.833,0.797,0.800,(8.3724)+(-0.0276)Asn+(-0.1040)His+(0.0257)Thr+(-0.0029)Ala+(0.0266)Leu+(-0.1189)Trp;0.828,0.854,0.781,0.763,0.794,0.821,0.775,0.788,(7.9827)+(-0.0338)Asn+(0.0021)Gly+(-0.1079)His+(0.0236)Thr+(0.0250)Leu+(-0.1189)Trp;0.828,0.859,0.785,0.776,0.797,0.822,0.757,0.788,(2.3947)+(0.0450)Ser+(0.0094)Pro+(0.0241)Tyr+(-0.2560)Met+(0.0180)Leu+(-0.1512)Trp;0.828,0.859,0.767,0.778,0.760,0.766,0.755,0.765,(0.5243)+(0.0312)Ser+(-0.0010)Thr+(-0.0416)Tyr+(0.0008)Orn+(0.0957)Phe+(-0.1657)Trp;0.828,0.857,0.822,0.817,0.829,0.838,0.809,0.823,(3.7364)+(0.0036)Gln+(-0.0075)Ala+(-0.1296)Cit+(0.0478)Orn+(0.0889)Phe+(-0.1726)Trp;0.828,0.853,0.795,0.766,0.820,0.830,0.795,0.803,(6.4687)+(-0.1200)Cit+(0.0054)Arg+(0.0470)Orn+(-0.0133)Lys+(0.0592)Ile+(-0.1664)Trp;0.828,0.852,0.768,0.756,0.736,0.812,0.836,0.785,(4.8047)+(-0.0004)Gln+(0.0043)Thr+(-0.0420)Val+(0.0093)Orn+(0.1469)Ile+(-0.1415)Trp;0.828,0.864,0.833,0.840,0.838,0.801,0.825,0.826,(3.4411)+(-0.1214)Asn+(0.0052)Gln+(0.01

72)Thr+(-0.0045)Lys+(0.0770)Phe+(-0.1648)Trp;0.828,0.850,0.769,0.745,0.775,0.812,0.786,0.780,(7.6652)+(-0.1085)His+(0.0221)Thr+(0.0036)Pro+(-0.0199)Val+(0.0543)Leu+(-0.1211)Trp;0.828,0.858,0.812,0.809,0.781,0.847,0.857,0.824,(6.3834)+(-0.0075)Ala+(-0.0145)Arg+(0.0016)Tyr+(0.1668)Ile+(-0.0692)Leu+(-0.1295)Trp;0.828,0.846,0.741,0.697,0.734,0.829,0.807,0.767,(1.2520)+(0.0426)Ser+(-0.0051)Gly+(0.0055)Gln+(-0.1636)His+(-0.0065)Thr+(0.0519)Ile;0.828,0.856,0.818,0.811,0.830,0.833,0.800,0.818,(5.0149)+(-0.0067)Ala+(-0.1261)Cit+(-0.0021)Val+(0.0527)Orn+(0.0922)Phe+(-0.1645)Trp;0.828,0.860,0.825,0.822,0.842,0.799,0.812,0.819,(4.8123)+(-0.0732)Cit+(0.0101)Pro+(-0.0048)Val+(-0.1797)Met+(0.1242)Phe+(-0.1463)Trp;0.828,0.865,0.780,0.784,0.792,0.787,0.739,0.776,(0.9164)+(0.0339)Ser+(0.0030)Thr+(-0.0299)Arg+(-0.0014)Leu+(0.0886)Phe+(-0.1752)Trp;0.828,0.851,0.764,0.752,0.711,0.861,0.840,0.791,(3.1007)+(0.0534)Ser+(-0.1582)Asn+(-0.0051)Gly+(-0.0189)Arg+(-0.0569)Val+(0.1767)Ile;0.828,0.862,0.792,0.788,0.803,0.784,0.784,0.790,(1.4934)+(0.0429)Ser+(-0.0076)Gly+(0.0048)Thr+(-0.0294)Arg+(0.0813)Phe+(-0.1754)Trp;0.828,0.859,0.807,0.783,0.800,0.843,0.858,0.821,(7.7921)+(-0.0784)His+(-0.0039)Ala+(0.0048)Arg+(-0.0738)Met+(0.0778)Ile+(-0.1105)Trp;0.828,0.858,0.808,0.802,0.812,0.862,0.778,0.813,(6.8096)+(0.0480)Ser+(-0.0459)Asn+(-0.0040)Gly+(-0.0684)His+(-0.0313)Cit+(-0.0973)Trp;0.828,0.856,0.799,0.781,0.777,0.856,0.848,0.816,(3.1848)+(0.0102)Gln+(-0.1197)His+(0.0062)Tyr+(-0.2100)Met+(0.1263)Ile+(-0.0428)Leu;0.828,0.856,0.738,0.701,0.723,0.844,0.789,0.764,(3.0194)+(0.0448)Ser+(-0.0744)Asn+(-0.1198)His+(-0.0014)Pro+(0.1101)Ile+(-0.0356)Leu;0.828,0.854,0.787,0.770,0.801,0.794,0.798,0.791,(2.3551)+(0.0036)Gly+(0.0033)Gln+(-0.1083)Cit+(0.0521)Ile+(0.0647)Phe+(-0.1970)Trp;0.828,0.854,0.788,0.768,0.757,0.869,0.844,0.809,(5.8940

)+(-0.0604)Asn+(-0.0696)Cit+(-0.0570)Val+(-0.2003)Met+(0.0502)Orn+(0.

1825)Ile;0.828,0.851,0.735,0.694,0.708,0.835,0.826,0.766,(3.0691)+(0.0465)Ser+(-0.0063)Gly+(-0.1092)His+(-0.0295)Val+(-0.0113)Lys+(0.1290)Ile;0.828,0.858,0.831,0.829,0.806,0.837,0.881,0.838,(3.0468)+(-0.0753)Asn+(0.0053)Gln+(-0.0083)Ala+(0.0518)Ile+(0.0605)Phe+(-0.1650)Trp;0.828,0.858,0.792,0.763,0.797,0.826,0.836,0.805,(7.5355)+(-0.0762)His+(-0.0495)Cit+(0.0056)Arg+(0.0015)Pro+(0.0674)Ile+(-0.1300)Trp;0.828,0.857,0.806,0.799,0.792,0.833,0.837,0.815,(6.1431)+(-0.0020)Asn+(0.0012)Pro+(-0.1511)Met+(0.1500)Ile+(-0.0614)Leu+(-0.1242)Trp;0.828,0.856,0.808,0.821,0.818,0.857,0.715,0.803,(5.8251)+(0.0341)Ser+(-0.0633)Asn+(0.0202)Thr+(-0.0127)Arg+(-0.1219)Met+(-0.1345)Trp;0.828,0.856,0.819,0.823,0.798,0.841,0.838,0.825,(4.7074)+(-0.0618)Asn+(0.0071)Gln+(-0.0219)Arg+(0.1495)Ile+(-0.0694)Leu+(-0.1358)Trp;0.828,0.855,0.825,0.836,0.831,0.865,0.756,0.822,(4.2236)+(0.0314)Ser+(0.0044)Gln+(-0.0002)Ala+(-0.0644)Cit+(-0.1217)Met+(-0.1364)Trp;0.828,0.853,0.787,0.760,0.788,0.816,0.836,0.800,(7.3882)+(-0.0020)Asn+(-0.0949)His+(0.0005)Pro+(0.0032)Lys+(0.0625)Ile+(-0.1220)Trp;0.828,0.853,0.788,0.775,0.741,0.862,0.869,0.812,(4.3177)+(0.0011)Gly+(-0.0058)Ala+(-0.0550)Val+(-0.2573)Met+(0.0254)Orn+(0.1950)Ile;0.828,0.860,0.805,0.794,0.809,0.808,0.825,0.809,(6.1463)+(-0.1071)His+(-0.0094)Arg+(-0.0014)Val+(0.0077)Lys+(0.1030)Phe+(-0.1191)Trp;0.828,0.855,0.801,0.806,0.785,0.852,0.786,0.807,(4.7408)+(0.0403)Ser+(-0.1014)Asn+(-0.0054)Ala+(0.0124)Pro+(0.0035)Tyr+(-0.1297)Trp;0.828,0.854,0.787,0.779,0.793,0.854,0.745,0.793,(5.9037)+(0.0377)Ser+(-0.0861)His+(-0.0003)Ala+(-0.0364)Cit+(0.0069)Lys+(-0.1051)Trp;0.827,0.854,0.790,0.767,0.761,0.850,0.864,0.811,(2.3620)+(0.0089)Gln+(-0.1558)His+(-0.0066)Ala+(-0.0099)Lys+(0.0477)Ile+(0.0594)Phe;0.827,0.852,0.790,0.766,0.815,0.800,0.796,0.794,(4.3866)+(-0.1197)Cit+(-0.0061)Arg+(0.0362)Orn+(0.0414)Ile+(0.0592)Phe+(-0.1887)Trp;0.827,0.862,0.820,0.800,0.837,0.812,0.842,0.823,(4.3314)+(-0.0798)Ci

t+(0.0043)Tyr+(-0.1941)Met+(0.0570)Ile+(0.1005)Phe+(-0.1645)Trp;0.827,0.859,0.812,0.797,0.822,0.818,0.827,0.816,(6.4697)+(-0.0178)Asn+(-0.0901)His+(-0.0501)Cit+(0.0052)Lys+(0.1116)Phe+(-0.1271)Trp;0.827,0.855,0.792,0.788,0.822,0.841,0.707,0.789,(4.9688)+(0.0290)Ser+(-0.1081)Cit+(-0.0096)Arg+(-0.0057)Tyr+(0.0512)Orn+(-0.1595)Trp;0.827,0.854,0.773,0.761,0.739,0.812,0.845,0.789,(4.9205)+(-0.0020)Gly+(0.0054)Thr+(-0.0421)Val+(0.0095)Orn+(0.1462)Ile+(-0.1419)Trp;0.827,0.863,0.783,0.788,0.792,0.788,0.746,0.779,(0.7700)+(0.0349)Ser+(0.0003)Gln+(-0.0286)Arg+(-0.0011)Leu+(0.0886)Phe+(-0.1738)Trp;0.827,0.856,0.819,0.807,0.822,0.846,0.826,0.825,(5.4529)+(0.0115)Gln+(-0.1163)His+(-0.0395)Cit+(-0.0071)Arg+(0.0273)Leu+(-0.1218)Trp;0.827,0.859,0.827,0.836,0.830,0.789,0.822,0.819,(1.4392)+(0.0009)Gly+(0.0058)Gln+(0.0070)Pro+(-0.2680)Met+(0.1114)Phe+(-0.1498)Trp;0.827,0.859,0.800,0.775,0.803,0.822,0.840,0.810,(7.4684)+(-0.0845)His+(0.0031)Pro+(-0.1186)Met+(0.0091)Lys+(0.0646)Ile+(-0.1166)Trp;0.827,0.857,0.785,0.791,0.787,0.824,0.737,0.785,(3.5022)+(0.0390)Ser+(0.0131)Pro+(-0.0003)Val+(-0.2102)Met+(0.0051)Lys+(-0.1395)Trp;0.827,0.855,0.813,0.797,0.817,0.834,0.834,0.820,(4.6688)+(0.0059)Gln+(-0.0943)Cit+(0.0012)Arg+(-0.0114)Lys+(0.0706)Ile+(-0.1751)Trp;0.827,0.859,0.825,0.820,0.844,0.800,0.815,0.820,(4.9644)+(-0.0102)Asn+(-0.0758)Cit+(0.0087)Pro+(-0.1683)Met+(0.1165)Phe+(-0.1515)Trp;0.827,0.861,0.820,0.820,0.817,0.807,0.833,0.819,(3.3288)+(0.0035)Gly+(-0.0330)Val+(-0.2261)Met+(0.0579)Leu+(0.1236)Phe+(-0.1416)Trp;0.827,0.856,0.767,0.758,0.748,0.818,0.796,0.780,(2.4249)+(0.0268)Ser+(-0.0039)Pro+(-0.0048)Orn+(0.1473)Ile+(-0.0632)Leu+(-0.1544)Trp;0.827,0.855,0.812,0.797,0.813,0.840,0.830,0.820,(5.5119)+(0.0105)Gln+(-0.1131)His+(-0.0417)Cit+(-0.0090)Val+(0.0417)Leu+(-0.1224)Trp;0.827,0.852,0.791,0.778,0.734,0.875,0.883,0.818,(6.0443)+(-0.1236)Asn+(0.0201)Thr+(-0.0086)Ala+(-0.0635)Cit+(-0.0539)Val+(0.1863)Ile;0.827,0.859,0.

816,0.825,0.820,0.789,0.802,0.809,(3.3810)+(0.0025)Gly+(0.0098)Pro+(-0.0084)Val+(-0.2312)Met+(0.1248)Phe+(-0.1345)Trp;0.827,0.858,0.803,0.778,0.794,0.844,0.859,0.819,(7.7629)+(-0.0876)His+(-0.0054)Ala+(-0.0011)Arg+(0.0115)Tyr+(0.0735)Ile+(-0.1203)Trp;0.827,0.855,0.782,0.764,0.792,0.835,0.771,0.791,(5.5285)+(0.0478)Ser+(-0.0043)Gly+(-0.1031)His+(-0.0088)Arg+(0.0114)Val+(-0.1083)Trp;0.827,0.852,0.811,0.807,0.809,0.835,0.809,0.815,(5.3097)+(0.0010)Gly+(0.0097)Gln+(-0.1257)His+(0.0094)Val+(0.0026)Lys+(-0.1138)Trp;0.827,0.852,0.762,0.743,0.723,0.826,0.845,0.784,(4.2294)+(-0.0981)Asn+(0.0054)Gly+(-0.0885)His+(-0.0429)Val+(0.1311)Ile+(0.0822)Phe;0.827,0.861,0.825,0.832,0.830,0.804,0.808,0.819,(5.0411)+(-0.1158)Asn+(0.0217)Thr+(-0.0110)Val+(0.0005)Lys+(0.0950)Phe+(-0.1476)Trp;0.827,0.861,0.853,0.866,0.855,0.812,0.843,0.844,(2.0627)+(-0.0417)Asn+(0.0081)Gln+(-0.0089)Arg+(-0.2034)Met+(0.1115)Phe+(-0.1455)Trp;0.827,0.860,0.770,0.748,0.766,0.840,0.788,0.786,(6.3304)+(-0.1058)His+(0.0319)Thr+(-0.0136)Arg+(-0.2318)Met+(0.1283)Ile+(-0.0426)Leu;0.827,0.860,0.843,0.857,0.837,0.823,0.832,0.837,(3.2199)+(-0.0843)Asn+(0.0087)Gln+(-0.0922)Cit+(-0.0254)Tyr+(0.1066)Phe+(-0.1566)Trp;0.827,0.858,0.777,0.774,0.782,0.814,0.749,0.780,(2.7826)+(0.0429)Ser+(0.0104)Pro+(-0.2228)Met+(0.0007)Lys+(0.0178)Leu+(-0.1451)Trp;0.827,0.854,0.823,0.820,0.824,0.840,0.819,0.826,(5.5082)+(0.0118)Gln+(-0.1266)His+(-0.0152)Arg+(0.0136)Tyr+(0.0089)Val+(-0.1147)Trp;0.827,0.854,0.778,0.753,0.778,0.821,0.810,0.790,(7.0330)+(0.0044)Gly+(-0.0974)His+(-0.0046)Arg+(0.0007)Pro+(0.0674)Ile+(-0.1176)Trp;0.827,0.858,0.786,0.781,0.772,0.829,0.799,0.795,(2.4909)+(0.0404)Ser+(-0.1252)Asn+(0.0028)Gln+(-0.0090)Tyr+(0.0572)Ile+(-0.1503)Trp;0.827,0.855,0.791,0.762,0.797,0.823,0.832,0.804,(7.6450)+(0.0052)Asn+(-0.0764)His+(-0.0458)Cit+(0.0019)Pro+(0.0671)Ile+(-0.1292)Trp;0.827,0.853,0.783,0.768,0.798,0.823,0.761,0.787,(7.6080)+(0.0009)Gly+(-0.1080)His+(0.0162)Thr+(

0.0055)Val+(0.0252)Orn+(-0.1133)Trp;0.827,0.861,0.815,0.800,0.825,0.823,0.829,0.819,(6.4858)+(-0.0149)Asn+(-0.0870)His+(-0.0549)Cit+(0.0048)Arg+(0.1149)Phe+(-0.1250)Trp;0.827,0.854,0.743,0.717,0.727,0.830,0.786,0.765,(0.2203)+(0.0384)Ser+(0.0038)Gln+(-0.1713)His+(-0.0052)Ala+(0.0103)Orn+(0.0927)Phe;0.827,0.854,0.822,0.819,0.843,0.856,0.762,0.820,(8.3720)+(-0.0677)Asn+(0.0170)Thr+(-0.0045)Ala+(-0.1120)Cit+(0.0554)Orn+(-0.1422)Trp;0.827,0.852,0.838,0.837,0.856,0.860,0.786,0.835,(6.1357)+(-0.0700)Asn+(0.0074)Gln+(-0.1068)Cit+(-0.0515)Met+(0.0515)Orn+(-0.1440)Trp;0.827,0.850,0.807,0.807,0.801,0.830,0.806,0.811,(5.5338)+(0.0002)Gly+(0.0089)Gln+(-0.1151)His+(0.0068)Pro+(0.0048)Lys+(-0.1088)Trp;0.827,0.848,0.729,0.689,0.700,0.832,0.822,0.761,(2.6935)+(0.0428)Ser+(-0.0061)Gly+(-0.1179)His+(-0.0291)Val+(0.1263)Ile+(-0.0053)Leu;0.827,0.863,0.779,0.771,0.780,0.761,0.809,0.780,(0.8809)+(0.0395)Ser+(-0.0081)Gly+(0.0024)Pro+(-0.0037)Leu+(0.0679)Phe+(-0.1761)Trp;0.827,0.861,0.744,0.701,0.751,0.847,0.771,0.767,(2.0006)+(0.0550)Ser+(-0.1270)His+(-0.0085)Arg+(0.0154)Tyr+(-0.2351)Met+(0.0830)Ile;0.827,0.860,0.801,0.785,0.807,0.807,0.830,0.807,(6.1807)+(-0.1101)His+(-0.0068)Arg+(0.0052)Lys+(0.0071)Leu+(0.0947)Phe+(-0.1229)Trp;0.827,0.857,0.827,0.831,0.841,0.827,0.790,0.822,(4.0902)+(0.0057)Gly+(-0.0028)Ala+(-0.0834)Cit+(-0.1515)Met+(0.1320)Phe+(-0.1470)Trp;0.827,0.856,0.780,0.779,0.788,0.818,0.741,0.781,(3.0777)+(0.0444)Ser+(-0.0095)Arg+(0.0108)Pro+(-0.2080)Met+(0.0176)Leu+(-0.1425)Trp;0.827,0.856,0.825,0.827,0.814,0.855,0.822,0.829,(6.1601)+(0.0100)Gln+(-0.0922)His+(-0.0041)Ala+(-0.0454)Cit+(0.0124)Pro+(-0.1099)Trp;0.827,0.854,0.787,0.779,0.723,0.858,0.894,0.813,(3.8246)+(-0.1701)Asn+(0.0186)Thr+(-0.0082)Ala+(-0.0623)Val+(0.1805)Ile+(0.0741)Phe;0.827,0.854,0.731,0.689,0.727,0.834,0.775,0.756,(1.8289)+(0.0372)Ser+(0.0046)Gln+(-0.1567)His+(0.0086)Orn+(-0.0145)Lys+(0.0598)Ile;0.827,0.851,0.725,0.679,0.715,0.828,0.793,0.7

54,(2.4004)+(0.0424)Ser+(-0.0049)Gly+(-0.1380)His+(0.0101)Orn+(0.1006)Ile+(-0.0363)Leu;0.827,0.853,0.775,0.760,0.750,0.829,0.830,0.792,(1.9071)+(0.0334)Ser+(-0.0046)Thr+(-0.0090)Ala+(0.0001)Orn+(0.0741)Ile+(-0.1609)Trp;0.827,0.850,0.785,0.772,0.796,0.819,0.767,0.789,(7.7569)+(0.0012)Gly+(-0.1032)His+(0.0181)Thr+(0.0042)Pro+(0.0063)Val+(-0.1153)Trp;0.827,0.853,0.794,0.785,0.800,0.837,0.775,0.799,(7.8478)+(-0.0992)His+(0.0160)Thr+(-0.0022)Ala+(0.0290)Orn+(0.0033)Lys+(-0.1071)Trp;0.827,0.856,0.808,0.802,0.820,0.831,0.777,0.808,(4.3634)+(0.0039)Gly+(-0.0073)Ala+(-0.1333)Cit+(0.0519)Orn+(0.0929)Phe+(-0.1679)Trp;0.827,0.852,0.809,0.810,0.805,0.840,0.794,0.812,(5.8835)+(0.0082)Gln+(-0.1175)His+(0.0121)Thr+(0.0066)Tyr+(0.0020)Lys+(-0.1107)Trp;0.827,0.852,0.806,0.793,0.801,0.833,0.831,0.814,(5.5197)+(0.0096)Gln+(-0.1239)His+(-0.0116)Val+(-0.0007)Lys+(0.0436)Leu+(-0.1146)Trp;0.827,0.856,0.812,0.801,0.806,0.840,0.832,0.820,(1.0327)+(0.0118)Gln+(-0.1519)His+(-0.0042)Val+(-0.2316)Met+(0.0137)Orn+(0.1268)Phe;0.827,0.855,0.815,0.818,0.829,0.851,0.753,0.813,(3.6527)+(0.0343)Ser+(0.0041)Gln+(-0.0735)Cit+(0.0084)Val+(-0.1411)Met+(-0.1487)Trp;0.827,0.854,0.810,0.808,0.828,0.809,0.775,0.805,(5.7211)+(-0.0521)Asn+(-0.1189)Cit+(-0.0261)Tyr+(0.0516)Orn+(0.0926)Phe+(-0.1573)Trp;0.827,0.863,0.799,0.782,0.794,0.816,0.841,0.808,(6.1560)+(-0.1042)His+(-0.0118)Tyr+(-0.0158)Val+(0.0357)Leu+(0.1018)Phe+(-0.1165)Trp;0.827,0.858,0.765,0.752,0.748,0.821,0.792,0.778,(2.5166)+(0.0302)Ser+(-0.0025)Orn+(-0.0089)Lys+(0.1386)Ile+(-0.0566)Leu+(-0.1485)Trp;0.827,0.857,0.782,0.782,0.786,0.816,0.751,0.784,(2.3923)+(0.0410)Ser+(0.0017)Gln+(0.0100)Pro+(-0.2273)Met+(0.0177)Leu+(-0.1460)Trp;0.827,0.856,0.778,0.764,0.759,0.836,0.810,0.792,(2.3770)+(0.0365)Ser+(-0.0085)Ala+(-0.0216)Arg+(0.0033)Tyr+(0.0774)Ile+(-0.1601)Trp;0.827,0.854,0.826,0.833,0.817,0.851,0.810,0.828,(5.5631)+(0.0011)Gly+(0.0100)Gln+(-0.1057)His+(-0.0906)Met+(0.0106)Lys+(-0.1010)

Trp;0.827,0.852,0.758,0.744,0.710,0.862,0.823,0.785,(3.0808)+(0.0451)Ser+(-0.1733)Asn+(-0.0514)Cit+(0.0003)Pro+(-0.0534)Val+(0.1715)Ile;0.827,0.852,0.771,0.762,0.737,0.815,0.836,0.787,(4.7248)+(0.0032)Thr+(-0.0360)Val+(0.0081)Orn+(0.1606)Ile+(-0.0193)Leu+(-0.1386)Trp;0.827,0.852,0.840,0.841,0.851,0.865,0.796,0.838,(6.4585)+(-0.0753)Asn+(0.0069)Gln+(-0.0039)Ala+(-0.1128)Cit+(0.0563)Orn+(-0.1420)Trp;0.827,0.850,0.739,0.708,0.740,0.811,0.769,0.757,(1.3042)+(0.0574)Ser+(-0.1029)Asn+(-0.0014)Gly+(-0.1501)His+(0.0019)Leu+(0.1061)Phe;0.827,0.847,0.729,0.689,0.701,0.832,0.822,0.761,(2.6954)+(0.0434)Ser+(-0.0059)Gly+(-0.1181)His+(-0.0016)Thr+(-0.0304)Val+(0.1223)Ile;0.827,0.856,0.795,0.776,0.777,0.854,0.841,0.812,(3.3361)+(0.0095)Gln+(-0.1196)His+(-0.1996)Met+(0.0101)Orn+(0.1239)Ile+(-0.0431)Leu;0.827,0.853,0.758,0.743,0.711,0.864,0.822,0.785,(3.1597)+(0.0452)Ser+(-0.1640)Asn+(-0.0510)Cit+(-0.0521)Val+(-0.0041)Lys+(0.1719)Ile;0.827,0.861,0.771,0.757,0.777,0.759,0.802,0.774,(1.1697)+(0.0417)Ser+(-0.0079)Gly+(-0.0016)Gln+(0.0024)Pro+(0.0664)Phe+(-0.1764)Trp;0.827,0.856,0.792,0.763,0.796,0.827,0.836,0.806,(7.5521)+(0.0007)Asn+(-0.0766)His+(-0.0492)Cit+(0.0061)Arg+(0.0690)Ile+(-0.1294)Trp;0.827,0.856,0.820,0.815,0.838,0.864,0.763,0.820,(4.5594)+(0.0387)Ser+(-0.0634)Cit+(0.0378)Tyr+(-0.1794)Met+(0.0045)Lys+(-0.1470)Trp;0.827,0.851,0.807,0.806,0.823,0.853,0.746,0.807,(4.7444)+(0.0386)Ser+(-0.0017)Ala+(-0.0698)Cit+(0.0096)Val+(-0.1119)Met+(-0.1435)Trp;0.827,0.851,0.789,0.776,0.742,0.863,0.868,0.812,(4.5054)+(-0.0057)Ala+(-0.0500)Val+(-0.2490)Met+(0.0257)Orn+(0.2064)Ile+(-0.0168)Leu;0.827,0.858,0.788,0.764,0.789,0.833,0.814,0.800,(7.0332)+(0.0052)Gly+(-0.0871)His+(0.0026)Arg+(-0.1067)Met+(0.0766)Ile+(-0.1086)Trp;0.827,0.857,0.828,0.844,0.820,0.857,0.780,0.825,(3.9131)+(0.0343)Ser+(-0.0845)Asn+(0.0048)Gln+(-0.1071)Met+(0.0055)Lys+(-0.1366)Trp;0.827,0.857,0.818,0.811,0.841,0.855

,0.763,0.818,(9.0113)+(-0.0749)His+(0.0321)Thr+(-0.0389)Cit+(0.0260)Tyr+(-0.1459)Met+(-0.1129)Trp;0.827,0.855,0.802,0.789,0.823,0.853,0.753,0.805,(8.5012)+(-0.0756)His+(0.0175)Thr+(-0.0034)Ala+(-0.0842)Cit+(0.0541)Orn+(-0.1142)Trp;0.827,0.853,0.810,0.820,0.809,0.856,0.754,0.810,(4.7449)+(0.0382)Ser+(-0.0706)Asn+(-0.0011)Ala+(-0.0897)Met+(0.0257)Orn+(-0.1287)Trp;0.827,0.852,0.745,0.705,0.729,0.852,0.811,0.774,(2.6789)+(0.0462)Ser+(-0.0019)Gly+(-0.1278)His+(-0.0083)Ala+(-0.0477)Cit+(0.0760)Ile;0.827,0.856,0.820,0.801,0.815,0.849,0.861,0.832,(6.5612)+(-0.0067)Ala+(-0.0786)Cit+(0.0127)Arg+(-0.0856)Met+(0.0826)Ile+(-0.1486)Trp;0.827,0.854,0.793,0.777,0.820,0.843,0.742,0.795,(8.2085)+(-0.0802)His+(0.0165)Thr+(-0.0793)Cit+(0.0510)Orn+(-0.0008)Lys+(-0.1175)Trp;0.827,0.864,0.822,0.810,0.824,0.835,0.842,0.828,(6.4857)+(-0.0863)His+(-0.0034)Ala+(-0.0569)Cit+(0.0043)Arg+(0.1224)Phe+(-0.1235)Trp;0.827,0.856,0.818,0.809,0.831,0.834,0.800,0.818,(5.1062)+(-0.0069)Ala+(-0.1251)Cit+(-0.0031)Arg+(0.0523)Orn+(0.0904)Phe+(-0.1663)Trp;0.827,0.863,0.812,0.805,0.810,0.815,0.829,0.815,(6.3775)+(-0.0073)Asn+(-0.1002)His+(-0.0031)Arg+(-0.0142)Tyr+(0.1123)Phe+(-0.1100)Trp;0.827,0.853,0.776,0.765,0.742,0.819,0.843,0.792,(4.9475)+(0.0006)Gln+(-0.0408)Val+(0.0140)Orn+(-0.0062)Lys+(0.1476)Ile+(-0.1344)Trp;0.827,0.858,0.762,0.771,0.758,0.766,0.747,0.760,(0.7968)+(0.0325)Ser+(-0.0012)Gln+(-0.0418)Tyr+(0.0016)Orn+(0.0965)Phe+(-0.1641)Trp;0.827,0.854,0.774,0.767,0.745,0.822,0.823,0.789,(6.1486)+(-0.0016)Gly+(0.0201)Thr+(-0.0329)Arg+(-0.0461)Val+(0.1640)Ile+(-0.1377)Trp;0.827,0.860,0.795,0.765,0.803,0.833,0.829,0.807,(7.5137)+(-0.0875)His+(-0.0002)Arg+(-0.0916)Met+(0.0247)Orn+(0.0655)Ile+(-0.1122)Trp;0.827,0.856,0.791,0.785,0.817,0.841,0.715,0.790,(4.7177)+(0.0289)Ser+(-0.0029)Thr+(-0.1134)Cit+(-0.0072)Tyr+(0.0512)Orn+(-0.1593)Trp;0.827,0.854,0.808,0.796,0.755,0.881,0.896,0.832,(3.0642)+(0.0041)Gln+(-0.0059)Ala+(0.0229)Tyr+(-0.0545)Val

+(-0.3083)Met+(0.1994)Ile;0.827,0.851,0.797,0.777,0.817,0.820,0.793,0.802,(4.5134)+(0.0035)Gln+(-0.1157)Cit+(-0.0005)Pro+(0.0346)Orn+(0.0525)Ile+(-0.1862)Trp;0.827,0.850,0.768,0.763,0.729,0.810,0.829,0.783,(5.0849)+(0.0001)Gln+(0.0080)Thr+(-0.0188)Tyr+(-0.0403)Val+(0.1483)Ile+(-0.1372)Trp;0.827,0.850,0.737,0.709,0.733,0.818,0.766,0.756,(0.3253)+(0.0419)Ser+(0.0048)Gln+(-0.1728)His+(0.0016)Pro+(-0.0141)Lys+(0.0988)Phe;0.827,0.857,0.820,0.822,0.816,0.852,0.800,0.823,(5.7463)+(0.0005)Gly+(0.0094)Gln+(-0.1057)His+(-0.0710)Met+(0.0275)Orn+(-0.0965)Trp;0.827,0.856,0.793,0.763,0.796,0.827,0.837,0.806,(7.5644)+(-0.0763)His+(-0.0494)Cit+(0.0063)Arg+(-0.0002)Lys+(0.0690)Ile+(-0.1293)Trp;0.827,0.856,0.829,0.846,0.821,0.862,0.778,0.827,(4.0197)+(0.0349)Ser+(-0.0805)Asn+(0.0051)Gln+(-0.0000)Ala+(-0.0944)Met+(-0.1322)Trp;0.827,0.849,0.731,0.718,0.715,0.801,0.749,0.746,(0.2210)+(0.0376)Ser+(0.0040)Gln+(-0.1679)His+(0.0031)Thr+(-0.0468)Tyr+(0.1138)Phe;0.827,0.852,0.804,0.803,0.807,0.837,0.779,0.807,(8.7174)+(-0.0457)Asn+(-0.0884)His+(0.0231)Thr+(-0.0013)Ala+(0.0079)Lys+(-0.1081)Trp;0.827,0.859,0.844,0.861,0.843,0.805,0.832,0.835,(1.5895)+(0.0009)Gly+(0.0063)Gln+(-0.0062)Val+(-0.2410)Met+(0.1238)Phe+(-0.1420)Trp;0.827,0.856,0.791,0.787,0.817,0.842,0.713,0.790,(4.5894)+(0.0266)Ser+(0.0008)Gln+(-0.1141)Cit+(-0.0095)Tyr+(0.0494)Orn+(-0.1617)Trp;0.827,0.851,0.746,0.721,0.728,0.830,0.789,0.767,(0.1787)+(0.0390)Ser+(0.0043)Gln+(-0.1710)His+(-0.0048)Ala+(-0.0001)Val+(0.0959)Phe;0.827,0.850,0.833,0.833,0.852,0.853,0.781,0.830,(6.2348)+(-0.0825)Asn+(0.0071)Gln+(-0.1103)Cit+(-0.0025)Arg+(0.0520)Orn+(-0.1500)Trp;0.827,0.859,0.814,0.803,0.808,0.833,0.841,0.821,(0.8085)+(-0.0157)Asn+(0.0129)Gln+(-0.1570)His+(-0.2344)Met+(0.0040)Lys+(0.1243)Phe;0.827,0.852,0.820,0.827,0.808,0.848,0.809,0.823,(6.0735)+(0.0110)Gln+(-0.1072)His+(-0.0030)Ala+(-0.0148)Arg+(0.0106)Pro+(-0.1018)Trp;0.827,0.850,0.734,0.703,0.714,0.824,0.794,0.759,(3.0100

)+(0.0441)Ser+(-0.0058)Gly+(-0.1237)His+(-0.0272)Tyr+(0.1090)Ile+(-0.0356)Leu;0.827,0.851,0.745,0.715,0.736,0.828,0.785,0.766,(1.4553)+(0.0523)Ser+(-0.0033)Gly+(-0.1523)His+(-0.0038)Ala+(-0.0109)Lys+(0.1065)Phe;0.827,0.851,0.808,0.805,0.808,0.835,0.794,0.811,(5.6528)+(0.0001)Gly+(0.0082)Gln+(-0.1159)His+(0.0237)Orn+(0.0033)Lys+(-0.1051)Trp;0.827,0.851,0.738,0.709,0.730,0.828,0.766,0.758,(1.2714)+(0.0480)Ser+(-0.1556)His+(-0.0041)Ala+(0.0015)Val+(-0.0108)Lys+(0.1063)Phe;0.827,0.846,0.738,0.694,0.731,0.829,0.805,0.765,(1.4934)+(0.0401)Ser+(-0.0052)Gly+(0.0051)Gln+(-0.1667)His+(-0.0024)Pro+(0.0537)Ile;0.827,0.857,0.746,0.724,0.745,0.764,0.793,0.756,(0.1220)+(0.0376)Ser+(-0.0018)Gln+(-0.0106)Thr+(0.0457)Ile+(0.0521)Phe+(-0.1825)Trp;0.827,0.853,0.794,0.786,0.801,0.836,0.771,0.799,(7.9543)+(0.0003)Gly+(-0.0975)His+(0.0170)Thr+(-0.0021)Ala+(0.0302)Orn+(-0.1051)Trp;0.827,0.858,0.800,0.792,0.814,0.837,0.763,0.802,(4.9519)+(0.0439)Ser+(-0.0936)Asn+(-0.0743)Cit+(0.0099)Tyr+(0.0195)Leu+(-0.1556)Trp;0.827,0.857,0.816,0.814,0.835,0.815,0.781,0.811,(3.5882)+(0.0040)Gln+(0.0170)Thr+(-0.1057)Cit+(-0.0140)Lys+(0.0995)Phe+(-0.1835)Trp;0.827,0.854,0.785,0.775,0.744,0.836,0.858,0.803,(4.4228)+(-0.1033)His+(-0.0077)Ala+(-0.0155)Arg+(0.1338)Ile+(-0.0663)Leu+(0.0836)Phe;0.827,0.853,0.775,0.753,0.796,0.789,0.776,0.779,(3.2292)+(0.0035)Gly+(0.0087)Thr+(-0.1078)Cit+(0.0510)Ile+(0.0668)Phe+(-0.1978)Trp;0.827,0.853,0.813,0.806,0.845,0.845,0.742,0.809,(8.2315)+(-0.0697)Asn+(0.0165)Thr+(-0.1109)Cit+(0.0535)Orn+(-0.0041)Lys+(-0.1481)Trp;0.827,0.863,0.857,0.872,0.855,0.823,0.847,0.849,(3.2812)+(-0.0886)Asn+(0.0069)Gln+(-0.0139)Arg+(-0.0078)Val+(0.0929)Phe+(-0.1487)Trp;0.827,0.852,0.828,0.828,0.848,0.856,0.767,0.825,(6.0702)+(-0.0884)Asn+(0.0024)Gly+(0.0067)Gln+(-0.1140)Cit+(0.0521)Orn+(-0.1492)Trp;0.827,0.859,0.811,0.799,0.799,0.824,0.860,0.821,(4.5466)+(-0.0092)Ala+(-0.0941)Cit+(-0.0117)Tyr+(0.0688)Ile+(0.0873)Phe+(-0.1709)Trp;0.8

27,0.854,0.823,0.828,0.826,0.861,0.778,0.823,(6.1554)+(0.0478)Ser+(-0.0613)Asn+(-0.0052)Gly+(-0.0526)Cit+(-0.0549)Met+(-0.1276)Trp;0.827,0.851,0.775,0.766,0.740,0.817,0.840,0.791,(4.7041)+(0.0004)Gln+(-0.0352)Val+(0.0095)Orn+(0.1610)Ile+(-0.0209)Leu+(-0.1369)Trp;0.827,0.857,0.774,0.764,0.765,0.822,0.788,0.785,(3.0143)+(0.0429)Ser+(-0.1110)Asn+(0.0009)Pro+(-0.0092)Tyr+(0.0575)Ile+(-0.1485)Trp;0.827,0.857,0.751,0.720,0.758,0.758,0.814,0.763,(0.8843)+(0.0422)Ser+(-0.0074)Gly+(-0.0021)Gln+(0.0416)Ile+(0.0459)Phe+(-0.1862)Trp;0.827,0.857,0.827,0.822,0.827,0.822,0.840,0.828,(5.7463)+(-0.0395)Asn+(-0.0080)Ala+(-0.0882)Cit+(0.0122)Pro+(0.1025)Phe+(-0.1548)Trp;0.827,0.855,0.813,0.797,0.818,0.832,0.833,0.820,(4.6678)+(0.0060)Gln+(-0.0937)Cit+(0.0004)Pro+(-0.0111)Lys+(0.0700)Ile+(-0.1752)Trp;0.827,0.854,0.809,0.805,0.827,0.848,0.754,0.809,(5.4323)+(0.0420)Ser+(-0.0875)Asn+(-0.0731)Cit+(0.0131)Tyr+(0.0052)Val+(-0.1490)Trp;0.827,0.850,0.736,0.690,0.736,0.834,0.790,0.762,(3.1059)+(0.0533)Ser+(-0.0555)Asn+(-0.0034)Gly+(-0.1319)His+(-0.0092)Lys+(0.0639)Ile;0.827,0.853,0.817,0.801,0.805,0.847,0.865,0.830,(6.7829)+(-0.0234)Asn+(-0.0077)Ala+(-0.0828)Cit+(0.0101)Arg+(0.0792)Ile+(-0.1556)Trp;0.827,0.861,0.819,0.806,0.822,0.831,0.839,0.824,(6.4079)+(-0.0902)His+(-0.0036)Ala+(-0.0526)Cit+(0.0051)Lys+(0.1198)Phe+(-0.1258)Trp;0.827,0.856,0.785,0.765,0.756,0.846,0.855,0.805,(5.9938)+(-0.0677)His+(0.0039)Pro+(-0.0460)Val+(-0.2561)Met+(0.0130)Lys+(0.1672)Ile;0.827,0.855,0.827,0.820,0.840,0.865,0.789,0.829,(4.9231)+(0.0456)Ser+(-0.0048)Gly+(-0.0569)Cit+(0.0350)Tyr+(-0.1625)Met+(-0.1422)Trp;0.827,0.848,0.772,0.754,0.722,0.852,0.864,0.798,(4.0892)+(0.0046)Gln+(-0.1116)His+(0.0062)Thr+(-0.0068)Ala+(-0.0304)Val+(0.1284)Ile;0.827,0.860,0.802,0.779,0.816,0.810,0.827,0.808,(6.2751)+(-0.0933)His+(-0.0546)Cit+(0.0043)Pro+(0.0092)Leu+(0.1026)Phe+(-0.1332)Trp;0.827,0.850,0.739,0.711,0.733,0.819,0.768,0.758,(0.3756)+(0.0414)Ser+(0.0048)Gln

+(-0.1730)His+(0.0008)Thr+(-0.0140)Lys+(0.1003)Phe;0.827,0.861,0.802,0.797,0.789,0.808,0.836,0.807,(1.1417)+(0.0394)Ser+(-0.0072)Gly+(-0.0066)Ala+(0.0041)Orn+(0.0793)Phe+(-0.1637)Trp;0.827,0.859,0.835,0.843,0.835,0.867,0.793,0.834,(3.5296)+(0.0374)Ser+(-0.0779)Asn+(0.0049)Gln+(0.0300)Tyr+(-0.1460)Met+(-0.1415)Trp;0.827,0.858,0.774,0.765,0.765,0.821,0.785,0.784,(2.9987)+(0.0425)Ser+(-0.1128)Asn+(-0.0100)Tyr+(0.0055)Orn+(0.0568)Ile+(-0.1479)Trp;0.827,0.858,0.822,0.829,0.822,0.850,0.781,0.820,(4.3672)+(0.0378)Ser+(-0.0089)Gly+(0.0028)Gln+(0.0172)Thr+(-0.1946)Met+(-0.1447)Trp;0.827,0.854,0.783,0.784,0.767,0.798,0.803,0.788,(2.8567)+(-0.1041)Asn+(0.0098)Gln+(-0.1550)His+(0.0235)Thr+(-0.0546)Tyr+(0.1111)Phe;0.827,0.852,0.775,0.762,0.741,0.816,0.848,0.792,(5.4847)+(-0.0020)Gly+(0.0115)Thr+(-0.0410)Val+(-0.0084)Lys+(0.1516)Ile+(-0.1372)Trp;0.827,0.850,0.730,0.687,0.737,0.816,0.770,0.752,(1.3295)+(0.0518)Ser+(-0.0039)Gly+(-0.1601)His+(0.0180)Orn+(-0.0153)Lys+(0.0978)Phe;0.827,0.865,0.758,0.754,0.761,0.764,0.755,0.758,(0.7636)+(0.0314)Ser+(-0.0019)Gln+(0.0024)Pro+(-0.0025)Leu+(0.0734)Phe+(-0.1765)Trp;0.827,0.857,0.798,0.793,0

.803,0.837,0.771,0.801,(6.1183)+(0.0308)Thr+(-0.0387)Val+(-0.2481)Met+(0.0198)Orn+(0.0766)Leu+(-0.1398)Trp;0.827,0.856,0.773,0.749,0.788,0.816,0.773,0.781,(7.5786)+(-0.1160)His+(0.0195)Thr+(-0.0096)Tyr+(0.0239)Orn+(0.0232)Leu+(-0.1199)Trp;0.827,0.852,0.792,0.774,0.753,0.857,0.874,0.815,(6.4009)+(0.0041)Asn+(-0.0586)His+(-0.0040)Ala+(-0.0417)Val+(-0.1833)Met+(0.1732)Ile;0.827,0.858,0.764,0.773,0.758,0.767,0.749,0.762,(0.7822)+(0.0326)Ser+(-0.0011)Gln+(-0.0415)Tyr+(-0.0006)Leu+(0.0979)Phe+(-0.1639)Trp;0.827,0.858,0.813,0.799,0.808,0.833,0.844,0.821,(0.8541)+(-0.0107)Asn+(0.0130)Gln+(-0.1570)His+(-0.2360)Met+(0.0065)Leu+(0.1191)Phe;0.827,0.853,0.818,0.819,0.816,0.839,0.806,0.820,(5.4863)+(0.0014)Gly+(0.0115)Gln+(-0.1242)His+(-0.0140)Arg+(0.0100)Val+(-0

.1097)Trp;0.827,0.853,0.803,0.794,0.838,0.834,0.733,0.800,(6.8612)+(0.0226)Thr+(-0.1022)Cit+(-0.1663)Met+(0.0415)Orn+(0.0155)Leu+(-0.1574)Trp;0.827,0.852,0.767,0.763,0.711,0.867,0.824,0.791,(2.3297)+(0.0443)Ser+(-0.1781)Asn+(0.0031)Gln+(-0.0217)Arg+(-0.0566)Val+(0.1763)Ile;0.827,0.851,0.760,0.748,0.712,0.863,0.818,0.785,(3.1390)+(0.0462)Ser+(-0.1630)Asn+(-0.0421)Cit+(-0.0102)Arg+(-0.0540)Val+(0.1740)Ile;0.827,0.860,0.849,0.860,0.851,0.813,0.843,0.842,(2.0699)+(-0.0468)Asn+(0.0073)Gln+(-0.2113)Met+(0.0059)Orn+(0.1065)Phe+(-0.1448)Trp;0.827,0.859,0.768,0.756,0.749,0.823,0.795,0.781,(2.5930)+(0.0300)Ser+(-0.0038)Pro+(-0.0088)Lys+(0.1446)Ile+(-0.0576)Leu+(-0.1474)Trp;0.827,0.854,0.815,0.815,0.813,0.844,0.799,0.818,(5.7705)+(0.0016)Gly+(0.0096)Gln+(-0.0984)His+(-0.0448)Cit+(0.0087)Pro+(-0.1119)Trp;0.827,0.851,0.772,0.764,0.736,0.814,0.839,0.788,(4.7036)+(0.0004)Gln+(0.0042)Thr+(-0.0350)Val+(0.1618)Ile+(-0.0203)Leu+(-0.1397)Trp;0.827,0.851,0.748,0.724,0.735,0.846,0.766,0.768,(1.5420)+(0.0365)Ser+(0.0066)Gln+(-0.1404)His+(-0.0319)Arg+(0.1154)Ile+(-0.0419)Leu;0.827,0.857,0.805,0.806,0.820,0.842,0.746,0.804,(8.8139)+(-0.0886)His+(0.0326)Thr+(-0.0157)Arg+(-0.1397)Met+(0.0137)Lys+(-0.1071)Trp;0.827,0.856,0.797,0.772,0.799,0.823,0.838,0.808,(7.2404)+(0.0212)Asn+(-0.0887)His+(-0.1260)Met+(0.0080)Lys+(0.0707)Ile+(-0.1156)Trp;0.827,0.855,0.808,0.820,0.812,0.849,0.734,0.804,(5.3722)+(0.0332)Ser+(-0.0731)Asn+(0.0155)Thr+(-0.1296)Met+(0.0043)Lys+(-0.1388)Trp;0.827,0.864,0.769,0.769,0.765,0.768,0.779,0.770,(0.1306)+(0.0334)Ser+(-0.0086)Thr+(0.0033)Pro+(-0.0016)Orn+(0.0732)Phe+(-0.1759)Trp;0.827,0.860,0.783,0.791,0.764,0.798,0.791,0.786,(0.7392)+(0.0314)Ser+(-0.0057)Ala+(-0.0303)Tyr+(0.0047)Leu+(0.0964)Phe+(-0.1616)Trp;0.827,0.857,0.799,0.790,0.815,0.839,0.761,0.801,(3.9750)+(0.0414)Ser+(-0.0691)Cit+(0.0035)Arg+(-0.1588)Met+(0.0266)Leu+(-0.1492)Trp;0.827,0.853,0.815,0.809,0.813,0.835,0.820,0.819,(5.3412)+(0.0099)Gln+(-

0.1268)His+(0.0078)Tyr+(0.0088)Val+(0.0020)Lys+(-0.1162)Trp;0.827,0.862,0.802,0.791,0.795,0.835,0.819,0.810,(3.6095)+(0.0501)Ser+(-0.0063)Gly+(-0.0249)Val+(-0.1917)Met+(0.0625)Leu+(-0.1346)Trp;0.827,0.861,0.753,0.747,0.746,0.817,0.736,0.761,(-2.9339)+(0.0391)Ser+(0.0275)Thr+(-0.0546)Val+(-0.5096)Met+(0.0815)Leu+(0.1354)Phe;0.827,0.860,0.811,0.802,0.798,0.838,0.843,0.820,(5.5794)+(0.0142)Tyr+(-0.1963)Met+(0.0095)Lys+(0.1552)Ile+(-0.0676)Leu+(-0.1350)Trp;0.827,0.854,0.791,0.763,0.796,0.824,0.832,0.804,(7.6584)+(0.0042)Asn+(-0.0776)His+(-0.0445)Cit+(0.0013)Lys+(0.0682)Ile+(-0.1288)Trp;0.827,0.851,0.771,0.749,0.785,0.810,0.772,0.779,(7.4521)+(0.0017)Gly+(-0.1140)His+(0.0197)Thr+(0.0025)Pro+(0.0245)Leu+(-0.1226)Trp;0.827,0.854,0.795,0.781,0.833,0.803,0.744,0.790,(4.6291)+(0.0122)Thr+(-0.1198)Cit+(-0.0135)Arg+(0.0414)Orn+(0.0778)Phe+(-0.1868)Trp;0.827,0.853,0.799,0.788,0.823,0.806,0.771,0.797,(4.6091)+(-0.1243)Cit+(0.0041)Pro+(-0.0066)Val+(0.0475)Orn+(0.0805)Phe+(-0.1731)Trp;0.827,0.862,0.809,0.801,0.808,0.812,0.827,0.812,(6.2952)+(-0.1026)His+(-0.0037)Arg+(-0.0149)Tyr+(0.0009)Val+(0.1113)Phe+(-0.1114)Trp;0.827,0.853,0.737,0.709,0.728,0.830,0.762,0.757,(1.0132)+(0.0504)Ser+(-0.1531)His+(-0.0067)Ala+(-0.0231)Arg+(0.0087)Pro+(0.1041)Phe;0.827,0.852,0.779,0.748,0.781,0.851,0.802,0.796,(6.3993)+(-0.1093)His+(0.0340)Thr+(-0.0057)Ala+(-0.0487)Cit+(-0.2233)Met+(0.0794)Ile;0.827,0.861,0.851,0.863,0.851,0.811,0.846,0.843,(2.0069)+(-0.0454)Asn+(0.0076)Gln+(-0.2115)Met+(0.0008)Leu+(0.1092)Phe+(-0.1460)Trp;0.827,0.858,0.790,0.790,0.795,0.839,0.742,0.792,(3.1102)+(0.0407)Ser+(0.0110)Pro+(0.0211)Tyr+(-0.2307)Met+(0.0127)Orn+(-0.1427)Trp;0.827,0.856,0.793,0.790,0.798,0.855,0.743,0.797,(6.1746)+(0.0404)Ser+(-0.0836)His+(0.0016)Ala+(-0.0064)Arg+(-0.0571)Met+(-0.0924)Trp;0.827,0.855,0.790,0.779,0.782,0.841,0.794,0.799,(5.7841)+(0.0041)Gly+(-0.0766)Cit+(-0.0055)Arg+(0.1496)Ile+(-0.0598)Leu+(-0.1482)Trp;0.827,0.855,0.797,0.7

84,0.808,0.826,0.789,0.802,(6.9434)+(-0.0613)Asn+(0.0198)Thr+(-0.0801)Cit+(-0.0125)Tyr+(0.0600)Ile+(-0.1665)Trp;0.827,0.854,0.817,0.811,0.826,0.851,0.788,0.819,(6.0985)+(0.0039)Gln+(-0.0087)Ala+(-0.1219)Cit+(0.0126)Pro+(0.0538)Orn+(-0.1569)Trp;0.827,0.853,0.772,0.756,0.748,0.828,0.826,0.789,(2.1292)+(0.0317)Ser+(-0.0005)Gln+(-0.0092)Ala+(-0.0014)Orn+(0.0740)Ile+(-0.1631)Trp;0.827,0.848,0.732,0.716,0.716,0.804,0.754,0.747,(0.0818)+(0.0389)Ser+(0.0042)Gln+(-0.1692)His+(-0.0456)Tyr+(0.0048)Leu+(0.1086)Phe;0.827,0.846,0.727,0.684,0.729,0.814,0.774,0.750,(1.2790)+(0.0537)Ser+(-0.0035)Gly+(-0.1615)His+(-0.0154)Lys+(0.0099)Leu+(0.0935)Phe;0.827,0.860,0.775,0.763,0.765,0.829,0.791,0.787,(3.0427)+(0.0440)Ser+(-0.1004)Asn+(-0.0063)Tyr+(-0.0059)Lys+(0.0621)Ile+(-0.1455)Trp;0.827,0.860,0.791,0.787,0.777,0.845,0.790,0.800,(4.4997)+(0.0418)Ser+(-0.1391)Asn+(-0.0347)Val+(0.0273)Orn+(0.0647)Leu+(-0.1262)Trp;0.827,0.859,0.777,0.765,0.772,0.833,0.783,0.788,(3.0622)+(0.0456)Ser+(-0.0930)Asn+(-0.0129)Arg+(-0.0039)Lys+(0.0621)Ile+(-0.1480)Trp;0.827,0.856,0.821,0.821,0.828,0.869,0.771,0.822,(5.8542)+(0.0411)Ser+(-0.0862)Asn+(-0.0017)Ala+(-0.0669)Cit+(0.0215)Tyr+(-0.1388)Trp;0.827,0.854,0.798,0.794,0.804,0.829,0.773,0.800,(8.6455)+(-0.0397)Asn+(-0.0861)His+(0.0225)Thr+(0.0061)Pro+(-0.0012)Tyr+(-0.1075)Trp;0.827,0.859,0.765,0.758,0.745,0.817,0.785,0.776,(2.8320)+(0.0292)Ser+(-0.0153)Tyr+(-0.0075)Lys+(0.1395)Ile+(-0.0565)Leu+(-0.1428)Trp;0.827,0.853,0.796,0.780,0.814,0.805,0.792,0.798,(4.6430)+(-0.1209)Cit+(-0.0222)Val+(0.0510)Orn+(0.0346)Leu+(0.0747)Phe+(-0.1752)Trp;0.827,0.852,0.759,0.749,0.718,0.804,0.842,0.778,(4.5841)+(-0.0973)His+(-0.0175)Arg+(-0.0446)Tyr+(-0.0391)Val+(0.1307)Ile+(0.0961)Phe;0.827,0.852,0.811,0.810,0.806,0.832,0.808,0.814,(5.6417)+(0.0003)Gly+(0.0093)Gln+(-0.1146)His+(0.0064)Pro+(0.0071)Tyr+(-0.1073)Trp;0.827,0.862,0.802,0.789,0.804,0.807,0.830,0.807,(6.2885)+(-0.1066)His+(-0.0025)Arg+(-0.0156)Tyr+(0.

0103)Leu+(0.1030)Phe+(-0.1161)Trp;0.827,0.851,0.834,0.833,0.852,0.856,0.783,0.831,(6.2983)+(-0.0853)Asn+(0.0070)Gln+(-0.1108)Cit+(-0.0012)Val+(0.0527)Orn+(-0.1476)Trp;0.827,0.859,0.831,0.828,0.846,0.874,0.777,0.831,(3.7313)+(0.0347)Ser+(0.0042)Gln+(-0.0674)Cit+(0.0369)Tyr+(-0.1839)Met+(-0.1473)Trp;0.827,0.856,0.784,0.764,0.788,0.827,0.799,0.795,(8.4626)+(-0.0487)Asn+(-0.0983)His+(0.0284)Thr+(-0.0228)Val+(0.0592)Leu+(-0.1150)Trp;0.827,0.852,0.775,0.764,0.742,0.816,0.841,0.791,(5.0771)+(-0.0361)Val+(0.0133)Orn+(-0.0045)Lys+(0.1604)Ile+(-0.0171)Leu+(-0.1320)Trp;0.827,0.852,0.730,0.714,0.717,0.803,0.750,0.746,(0.2028)+(0.0380)Ser+(0.0036)Gln+(-0.1674)His+(-0.0476)Tyr+(0.0130)Orn+(0.1107)Phe;0.827,0.858,0.783,0.788,0.787,0.829,0.730,0.784,(3.4582)+(0.0386)Ser+(0.0118)Pro+(-0.0006)Val+(-0.2004)Met+(0.0155)Orn+(-0.1359)Trp;0.827,0.853,0.726,0.708,0.703,0.813,0.759,0.746,(0.9354)+(0.0452)Ser+(-0.1502)His+(-0.0050)Ala+(0.0086)Pro+(-0.0417)Tyr+(0.1124)Phe;0.827,0.853,0.799,0.798,0.778,0.822,0.828,0.807,(6.1058)+(-0.0468)Asn+(0.0012)Gly+(-0.0119)Tyr+(0.1404)Ile+(-0.0626)Leu+(-0.1287)Trp;0.826,0.859,0.807,0.786,0.820,0.814,0.830,0.812,(6.5109)+(-0.0062)Asn+(-0.0923)His+(-0.0527)Cit+(0.0110)Leu+(0.1052)Phe+(-0.1311)Trp;0.826,0.854,0.785,0.762,0.805,0.786,0.805,0.789,(3.7734)+(0.0116)Thr+(-0.1020)Cit+(-0.0016)Pro+(0.0503)Ile+(0.0654)Phe+(-0.1980)Trp;0.826,0.851,0.790,0.779,0.788,0.846,0.782,0.799,(5.7712)+(0.0428)Ser+(-0.0049)Gly+(-0.0935)His+(-0.0001)Ala+(0.0054)Lys+(-0.1014)Trp;0.826,0.844,0.761,0.740,0.714,0.842,0.857,0.788,(5.2877)+(0.0006)Gly+(-0.0974)His+(0.0102)Thr+(-0.0069)Ala+(-0.0342)Val+(0.1391)Ile;0.826,0.852,0.744,0.718,0.750,0.817,0.750,0.759,(1.4790)+(0.0585)Ser+(-0.0968)Asn+(-0.1409)His+(-0.0267)Cit+(-0.0115)Arg+(0.1152)Phe;0.826,0.859,0.850,0.866,0.845,0.811,0.843,0.842,(1.7886)+(0.0064)Gln+(-0.0015)Ala+(-0.0054)Val+(-0.2280)Met+(0.1222)Phe+(-0.1415)Trp;0.826,0.855,0.824,0.819,0.839,0.871,0.770,0

.825,(4.8401)+(0.0390)Ser+(-0.0012)Ala+(-0.0629)Cit+(0.0400)Tyr+(-0.1593)Met+(-0.1422)Trp;0.826,0.851,0.772,0.766,0.733,0.810,0.841,0.788,(5.5565)+(-0.0027)Gly+(0.0108)Thr+(-0.0219)Tyr+(-0.0406)Val+(0.1489)Ile+(-0.1359)Trp;0.826,0.846,0.738,0.706,0.730,0.811,0.786,0.758,(0.2055)+(0.0425)Ser+(-0.0040)Gly+(0.0046)Gln+(-0.1756)His+(-0.0030)Val+(0.0895)Phe;0.826,0.862,0.811,0.809,0.809,0.830,0.808,0.814,(4.1977)+(-0.0508)Asn+(0.0056)Gln+(0.0237)Thr+(-0.2276)Met+(0.0626)Ile+(-0.1554)Trp;0.826,0.858,0.812,0.785,0.809,0.849,0.862,0.826,(7.8098)+(-0.0783)His+(-0.0046)Ala+(0.0248)Tyr+(-0.0967)Met+(0.0769)Ile+(-0.1171)Trp;0.826,0.855,0.797,0.796,0.786,0.826,0.803,0.803,(6.5113)+(-0.0498)Asn+(0.0155)Thr+(-0.0216)Arg+(0.1412)Ile+(-0.0643)Leu+(-0.1381)Trp;0.826,0.853,0.774,0.758,0.750,0.828,0.829,0.792,(1.9795)+(0.0337)Ser+(-0.0003)Gln+(-0.0044)Thr+(-0.0089)Ala+(0.0743)Ile+(-0.1605)Trp;0.826,0.852,0.830,0.825,0.829,0.858,0.827,0.834,(5.6836)+(0.0110)Gln+(-0.1094)His+(-0.0025)Ala+(-0.0459)Cit+(0.0130)Val+(-0.1172)Trp;0.826,0.849,0.735,0.722,0.718,0.802,0.753,0.749,(0.1322)+(0.0386)Ser+(0.0042)Gln+(-0.1666)His+(-0.0446)Tyr+(-0.0003)Val+(0.1142)Phe;0.826,0.854,0.810,0.814,0.819,0.851,0.749,0.808,(9.2946)+(-0.0137)Asn+(-0.0797)His+(0.0338)Thr+(-0.0090)Arg+(-0.0993)Met+(-0.1016)Trp;0.826,0.849,0.773,0.753,0.787,0.814,0.769,0.781,(7.6104)+(0.0016)Gly+(-0.1143)His+(0.0212)Thr+(-0.0013)Lys+(0.0265)Leu+(-0.1217)Trp;0.826,0.851,0.787,0.769,0.792,0.829,0.792,0.795,(8.0343)+(-0.1094)His+(0.0237)Thr+(-0.0032)Ala+(-0.0012)Lys+(0.0283)Leu+(-0.1207)Trp;0.826,0.850,0.773,0.751,0.741,0.848,0.845,0.796,(1.9164)+(0.0024)Gly+(0.0075)Gln+(-0.1621)His+(-0.0071)Ala+(0.0435)Ile+(0.0561)Phe;0.826,0.859,0.811,0.803,0.795,0.826,0.854,0.819,(4.4721)+(-0.0813)Asn+(0.

0182)Thr+(-0.0091)Ala+(0.0502)Ile+(0.0643)Phe+(-0.1666)Trp;0.826,0.855,0.799,0.789,0.787,0.836,0.825,0.809,(6.2853)+(-0.0715)Cit+(-0.0066)

Tyr+(0.0004)Lys+(0.1453)Ile+(-0.0586)Leu+(-0.1454)Trp;0.826,0.853,0.809,0.803,0.829,0.814,0.778,0.806,(3.6598)+(0.0028)Gln+(-0.1257)Cit+(-0.0053)Val+(0.0449)Orn+(0.0805)Phe+(-0.1771)Trp;0.826,0.853,0.786,0.773,0.821,0.800,0.738,0.783,(3.9492)+(0.0024)Gly+(0.0066)Thr+(-0.1306)Cit+(0.0416)Orn+(0.0771)Phe+(-0.1866)Trp;0.826,0.851,0.809,0.805,0.842,0.848,0.721,0.804,(7.3698)+(0.0206)Thr+(-0.1018)Cit+(-0.1339)Met+(0.0485)Orn+(-0.0021)Lys+(-0.1446)Trp;0.826,0.860,0.780,0.770,0.783,0.771,0.811,0.784,(1.0125)+(0.0427)Ser+(-0.0075)Gly+(-0.0010)Gln+(-0.0039)Thr+(0.0700)Phe+(-0.1720)Trp;0.826,0.854,0.810,0.807,0.809,0.839,0.797,0.813,(5.6784)+(0.0002)Gly+(0.0085)Gln+(-0.1165)His+(0.0073)Tyr+(0.0236)Orn+(-0.1052)Trp;0.826,0.852,0.788,0.767,0.744,0.876,0.868,0.814,(6.0808)+(-0.1074)Asn+(-0.0087)Ala+(-0.0924)Cit+(-0.0549)Val+(0.0574)Orn+(0.1792)Ile;0.826,0.851,0.736,0.702,0.714,0.840,0.796,0.763,(2.6624)+(0.0406)Ser+(-0.1386)His+(0.0002)Thr+(-0.0067)Ala+(-0.0120)Tyr+(0.0718)Ile;0.826,0.862,0.797,0.765,0.808,0.834,0.834,0.810,(7.4409)+(-0.0872)His+(0.0114)Tyr+(-0.1082)Met+(0.0227)Orn+(0.0652)Ile+(-0.1152)Trp;0.826,0.856,0.821,0.825,0.840,0.816,0.774,0.814,(3.9417)+(0.0057)Gly+(-0.0820)Cit+(-0.0012)Val+(-0.1706)Met+(0.1312)Phe+(-0.1479)Trp;0.826,0.854,0.816,0.814,0.814,0.838,0.808,0.819,(5.7126)+(0.0096)Gln+(-0.1015)His+(-0.0418)Cit+(0.0083)Pro+(0.0041)Lys+(-0.1149)Trp;0.826,0.853,0.744,0.708,0.729,0.849,0.794,0.770,(2.7662)+(0.0451)Ser+(-0.1267)His+(-0.0080)Ala+(-0.0432)Cit+(-0.0085)Arg+(0.0767)Ile;0.826,0.852,0.819,0.821,0.815,0.846,0.799,0.820,(6.0121)+(0.0102)Gln+(-0.1108)His+(-0.0013)Ala+(-0.0170)Arg+(0.0306)Orn+(-0.0992)Trp;0.826,0.855,0.806,0.808,0.818,0.853,0.743,0.805,(9.1655)+(-0.0436)Asn+(0.0024)Gly+(-0.0740)His+(0.0264)Thr+(-0.0446)Cit+(-0.1091)Trp;0.826,0.849,0.731,0.690,0.716,0.828,0.800,0.759,(2.3336)+(0.0465)Ser+(-0.0045)Gly+(-0.1295)His+(-0.0069)Thr+(0.1092)Ile+(-0.0387)Leu;0.826,0.849,0.729,0.688,

0.714,0.828,0.796,0.757,(2.5129)+(0.0435)Ser+(-0.0048)Gly+(-0.1348)His+(-0.0027)Pro+(0.1078)Ile+(-0.0364)Leu;0.826,0.855,0.791,0.770,0.812,0.830,0.777,0.797,(8.5668)+(-0.0308)Asn+(-0.0925)His+(0.0270)Thr+(-0.0449)Cit+(0.0253)Leu+(-0.1275)Trp;0.826,0.851,0.712,0.668,0.694,0.814,0.793,0.742,(0.4863)+(0.0404)Ser+(-0.1339)His+(-0.0431)Cit+(-0.0300)Val+(0.1065)Ile+(0.0777)Phe;0.826,0.852,0.755,0.742,0.711,0.805,0.847,0.776,(4.0774)+(-0.1059)His+(-0.0011)Pro+(-0.0455)Tyr+(-0.0353)Val+(0.1215)Ile+(0.0883)Phe;0.826,0.856,0.817,0.811,0.823,0.847,0.801,0.820,(5.3377)+(0.0029)Gly+(0.0104)Gln+(-0.1131)His+(-0.0488)Cit+(0.0124)Val+(-0.1205)Trp;0.826,0.855,0.731,0.712,0.715,0.812,0.755,0.749,(1.0192)+(0.0426)Ser+(-0.1548)His+(-0.0032)Ala+(-0.0416)Tyr+(0.0185)Orn+(0.1133)Phe;0.826,0.853,0.805,0.802,0.735,0.865,0.913,0.829,(2.9571)+(-0.1514)Asn+(0.0038)Gln+(-0.0081)Ala+(-0.0592)Val+(0.1754)Ile+(0.0684)Phe;0.826,0.851,0.723,0.710,0.724,0.801,0.696,0.733,(1.4448)+(0.0445)Ser+(-0.1573)His+(0.0156)Thr+(-0.0276)Arg+(-0.0526)Tyr+(0.1287)Phe;0.826,0.846,0.730,0.690,0.702,0.833,0.822,0.762,(2.7490)+(0.0427)Ser+(-0.0060)Gly+(-0.1189)His+(-0.0014)Pro+(-0.0303)Val+(0.1236)Ile;0.826,0.853,0.823,0.816,0.826,0.844,0.819,0.827,(5.5044)+(0.0107)Gln+(-0.1124)His+(-0.0442)Cit+(0.0113)Val+(0.0011)Lys+(-0.1198)Trp;0.826,0.851,0.735,0.701,0.717,0.827,0.794,0.760,(0.9833)+(0.0496)Ser+(-0.0032)Gly+(-0.1572)His+(-0.0069)Ala+(0.0074)Pro+(0.0920)Phe;0.826,0.851,0.813,0.813,0.812,0.842,0.794,0.815,(5.7366)+(0.0100)Gln+(-0.1172)His+(-0.0213)Arg+(0.0263)Orn+(0.0075)Lys+(-0.1056)Trp;0.826,0.860,0.785,0.776,0.786,0.771,0.815,0.787,(0.7641)+(0.0416)Ser+(-0.0076)Gly+(-0.0050)Thr+(0.0013)Orn+(0.0681)Phe+(-0.1729)Trp;0.826,0.855,0.801,0.785,0.817,0.826,0.796,0.806,(6.8548)+(-0.0624)Asn+(0.0190)Thr+(-0.0809)Cit+(-0.0024)Arg+(0.0586)Ile+(-0.1710)Trp;0.826,0.855,0.793,0.783,0.739,0.862,0.881,0.816,(4.5283)+(-0.0075)Ala+(0.0096)Pro+(-0.0560)Val+(-0.2826

)Met+(0.0092)Lys+(0.1921)Ile;0.826,0.858,0.758,0.733,0.759,0.758,0.82
2,0.768,(0.4069)+(0.0405)Ser+(-0.0074)Gly+(-0.0130)Orn+(0.0448)Ile+(0
.0495)Phe+(-0.1908)Trp;0.826,0.858,0.754,0.736,0.751,0.766,0.799,0.76
3,(-0.2279)+(0.0351)Ser+(-0.0111)Thr+(-0.0016)Pro+(0.0466)Ile+(0.0506
)Phe+(-0.1846)Trp;0.826,0.853,0.785,0.766,0.797,0.819,0.788,0.792,(8.
2031)+(-0.0319)Asn+(-0.1062)His+(0.0246)Thr+(0.0007)Lys+(0.0238)Leu+(
-0.1207)Trp;0.826,0.849,0.786,0.772,0.798,0.815,0.775,0.790,(7.7594)+
(-0.1033)His+(0.0177)Thr+(0.0042)Pro+(0.0055)Val+(0.0030)Lys+(-0.1172
)Trp;0.826,0.855,0.789,0.770,0.748,0.854,0.878,0.813,(6.3982)+(-0.054
5)His+(-0.0058)Ala+(0.0077)Pro+(-0.0427)Val+(-0.1904)Met+(0.1696)Ile;
0.826,0.858,0.859,0.874,0.841,0.836,0.870,0.855,(3.3210)+(-0.0919)Asn
+(0.0062)Gln+(-0.0041)Ala+(-0.0060)Val+(0.0931)Phe+(-0.1458)Trp;0.826
,0.856,0.764,0.753,0.783,0.793,0.732,0.765,(4.3589)+(-0.1433)His+(0.0
489)Thr+(-0.0159)Arg+(-0.0276)Tyr+(-0.2845)Met+(0.1516)Phe;0.826,0.85
4,0.727,0.694,0.711,0.828,0.774,0.752,(0.7877)+(0.0438)Ser+(-0.1603)H
is+(-0.0070)Ala+(0.0065)Pro+(0.0118)Orn+(0.0906)Phe;0.826,0.850,0.774
,0.753,0.779,0.817,0.785,0.784,(7.9461)+(-0.1084)His+(0.0248)Thr+(-0.
0197)Val+(-0.0033)Lys+(0.0574)Leu+(-0.1196)Trp;0.826,0.860,0.832,0.84
2,0.824,0.826,0.824,0.829,(5.1358)+(-0.1063)Asn+(0.0238)Thr+(-0.0049)
Ala+(-0.0083)Val+(0.1002)Phe+(-0.1463)Trp;0.826,0.856,0.812,0.798,0.8
08,0.838,0.839,0.821,(0.9967)+(-0.0136)Asn+(0.0124)Gln+(-0.1548)His+(
-0.2254)Met+(0.0102)Orn+(0.1203)Phe;0.826,0.861,0.791,0.792,0.776,0.8
12,0.804,0.796,(0.9393)+(0.0311)Ser+(-0.0009)Gln+(-0.0068)Ala+(0.0033
)Orn+(0.0843)Phe+(-0.1642)Trp;0.826,0.858,0.784,0.754,0.793,0.820,0.8
20,0.797,(7.4136)+(-0.0998)His+(-0.0075)Arg+(0.0244)Orn+(0.0025)Lys+(
0.0579)Ile+(-0.1212)Trp;0.826,0.853,0.778,0.770,0.751,0.824,0.824,0.7
92,(5.9015)+(-0.0267)Arg+(-0.0380)Val+(0.0252)Orn+(0.1750)Ile+(-0.024
3)Leu+(-0.1246)Trp;0.826,0.851,0.810,0.800,0.823,0.846,0.782,0.813,(7

.3665)+(-0.0083)Ala+(-0.1196)Cit+(0.0125)Pro+(0.0011)Val+(0.0575)Orn+(-0.1504)Trp;0.826,0.853,0.794,0.785,0.807,0.832,0.764,0.797,(8.1836)+(-0.0842)His+(0.0192)Thr+(-0.0418)Cit+(0.0066)Pro+(0.0041)Lys+(-0.1185)Trp;0.826,0.854,0.767,0.746,0.740,0.817,0.840,0.786,(1.9054)+(0.0077)Gln+(-0.1493)His+(-0.0083)Lys+(0.0935)Ile+(-0.0451)Leu+(0.0704)Phe;0.826,0.855,0.793,0.777,0.827,0.801,0.760,0.791,(4.3133)+(0.0076)Thr+(-0.1273)Cit+(0.0018)Pro+(0.0405)Orn+(0.0738)Phe+(-0.1879)Trp;0.826,0.855,0.804,0.796,0.813,0.835,0.786,0.807,(5.1406)+(0.0484)Ser+(-0.0877)Asn+(-0.0038)Gly+(-0.0664)Cit+(0.0194)Leu+(-0.1511)Trp;0.826,0.855,0.809,0.791,0.820,0.800,0.837,0.812,(5.0915)+(-0.0460)Asn+(-0.0894)Cit+(0.0006)Pro+(0.0478)Ile+(0.0713)Phe+(-0.1765)Trp;0.826,0.852,0.784,0.764,0.807,0.785,0.790,0.786,(4.0126)+(0.0150)Thr+(-0.0960)Cit+(-0.0125)Arg+(0.0487)Ile+(0.0679)Phe+(-0.1974)Trp;0.826,0.860,0.802,0.799,0.788,0.808,0.835,0.808,(1.1332)+(0.0396)Ser+(-0.0071)Gly+(0.0004)Thr+(-0.0065)Ala+(0.0816)Phe+(-0.1641)Trp;0.826,0.860,0.833,0.843,0.838,0.800,0.820,0.825,(3.4249)+(-0.1282)Asn+(0.0051)Gln+(0.0161)Thr+(-0.0052)Leu+(0.0786)Phe+(-0.1626)Trp;0.826,0.856,0.798,0.781,0.776,0.856,0.845,0.815,(3.1607)+(0.0098)Gln+(-0.1200)His+(-0.2089)Met+(0.0041)Lys+(0.1273)Ile+(-0.0445)Leu;0.826,0.851,0.726,0.691,0.710,0.827,0.779,0.752,(0.7841)+(0.0454)Ser+(-0.1611)His+(-0.0071)Ala+(0.0065)Pro+(0.0062)Leu+(0.0881)Phe;0.826,0.855,0.794,0.786,0.821,0.839,0.724,0.793,(4.3297)+(0.0286)Ser+(0.0009)Gln+(-0.0047)Thr+(-0.1144)Cit+(0.0498)Orn+(-0.1634)Trp;0.826,0.855,0.792,0.773,0.748,0.867,0.879,0.817,(4.2661)+(-0.0059)Ala+(0.0174)Tyr+(-0.0567)Val+(-0.2819)Met+(0.0253)Orn+(0.1982)Ile;0.826,0.852,0.797,0.797,0.796,0.839,0.766,0.800,(8.7527)+(-0.0869)His+(0.0235)Thr+(-0.0036)Ala+(-0.0138)Arg+(0.0097)Pro+(-0.1079)Trp;0.826,0.851,0.797,0.794,0.795,0.837,0.781,0.801,(8.2585)+(-0.0896)His+(0.0190)Thr+(-0.0039)Ala+(0.0091)Pro+(0.0030)Tyr+(-0.1084)Trp;0.

826,0.853,0.782,0.757,0.804,0.822,0.773,0.789,(7.9732)+(-0.0976)His+(0.0228)Thr+(-0.0457)Cit+(0.0033)Pro+(0.0248)Leu+(-0.1316)Trp;0.826,0.852,0.795,0.783,0.801,0.814,0.798,0.799,(4.5581)+(0.0040)Gln+(0.0093)Thr+(-0.0904)Cit+(-0.0181)Tyr+(0.0629)Ile+(-0.1824)Trp;0.826,0.855,0.791,0.769,0.763,0.853,0.863,0.812,(5.8737)+(-0.0679)His+(0.0146)Tyr+(-0.0467)Val+(-0.2662)Met+(0.0120)Lys+(0.1726)Ile;0.826,0.860,0.787,0.779,0.787,0.774,0.815,0.789,(0.7970)+(0.0416)Ser+(-0.0077)Gly+(-0.0045)Thr+(-0.0018)Leu+(0.0706)Phe+(-0.1718)Trp;0.826,0.852,0.730,0.708,0.717,0.800,0.765,0.747,(1.1243)+(0.0491)Ser+(-0.0051)Gly+(-0.1548)His+(-0.0533)Tyr+(0.0190)Orn+(0.1117)Phe;0.826,0.851,0.776,0.767,0.742,0.816,0.845,0.792,(4.9921)+(-0.0011)Gly+(-0.0356)Val+(0.0114)Orn+(0.1609)Ile+(-0.0203)Leu+(-0.1354)Trp;0.826,0.851,0.803,0.802,0.823,0.845,0.736,0.801,(4.6373)+(0.0386)Ser+(-0.0687)Cit+(0.0084)Val+(-0.1258)Met+(0.0011)Lys+(-0.1454)Trp;0.826,0.862,0.855,0.868,0.850,0.823,0.855,0.849,(2.1377)+(-0.0445)Asn+(0.0075)Gln+(-0.0022)Ala+(-0.1950)Met+(0.1113)Phe+(-0.1437)Trp;0.826,0.859,0.790,0.790,0.774,0.810,0.811,0.796,(0.6415)+(0.0313)Ser+(-0.0021)Thr+(-0.0071)Ala+(0.0058)Leu+(0.0815)Phe+(-0.1679)Trp;0.826,0.850,0.803,0.797,0.747,0.877,0.884,0.826,(3.3593)+(0.0011)Gly+(0.0037)Gln+(-0.0056)Ala+(-0.0523)Val+(-0.2721)Met+(0.1950)Ile;0.826,0.858,0.850,0.866,0.850,0.812,0.834,0.840,(1.8031)+(0.0071)Gln+(-0.0101)Arg+(-0.0060)Val+(-0.2274)Met+(0.1238)Phe+(-0.1419)Trp;0.826,0.857,0.803,0.799,0.810,0.826,0.784,0.805,(6.5554)+(-0.0014)Gly+(0.0351)Thr+(-0.0356)Val+(-0.2454)Met+(0.0753)Leu+(-0.1416)Trp;0.826,0.854,0.789,0.772,0.799,0.827,0.784,0.796,(6.5193)+(0.0181)Thr+(-0.0875)Cit+(-0.0126)Tyr+(-0.0118)Lys+(0.0702)Ile+(-0.1701)Trp;0.826,0.854,0.806,0.811,0.817,0.848,0.743,0.805,(9.1126)+(-0.0820)His+(0.0336)Thr+(0.0004)Ala+(-0.0098)Arg+(-0.1108)Met+(-0.1017)Trp;0.826,0.853,0.792,0.769,0.799,0.827,0.814,0.802,(7.9513)+(-0.0974)His+(-0.0047)

Ala+(0.0076)Pro+(0.0298)Orn+(0.0196)Leu+(-0.1113)Trp;0.826,0.852,0.791,0.787,0.755,0.830,0.846,0.805,(5.0590)+(-0.0006)Gly+(0.0035)Gln+(-0.0244)Arg+(-0.0418)Val+(0.1536)Ile+(-0.1342)Trp;0.826,0.851,0.793,0.776,0.805,0.817,0.794,0.798,(4.1734)+(0.0019)Gly+(0.0036)Gln+(0.0060)Thr+(-0.0961)Cit+(0.0623)Ile+(-0.1885)Trp;0.826,0.859,0.807,0.797,0.796,0.834,0.838,0.816,(5.7971)+(0.0116)Tyr+(-0.1745)Met+(0.0106)Orn+(0.1491)Ile+(-0.0623)Leu+(-0.127
7)Trp;0.826,0.854,0.808,0.805,0.818,0.843,0.767,0.808,(9.0539)+(-0.0476)Asn+(-0.0781)His+(0.0255)Thr+(-0.0404)Cit+(0.0071)Lys+(-0.1139)Trp;0.826,0.857,0.804,0.783,0.815,0.806,0.834,0.809,(4.7643)+(-0.0970)Cit+(0.0001)Pro+(-0.0117)Lys+(0.0578)Ile+(0.0766)Phe+(-0.1783)Trp;0.826,0.855,0.814,0.802,0.827,0.830,0.804,0.816,(4.9816)+(-0.0075)Ala+(-0.1274)Cit+(0.0506)Orn+(0.0063)Leu+(0.0858)Phe+(-0.1711)Trp;0.826,0.855,0.797,0.793,0.794,0.789,0.819,0.799,(2.5344)+(0.0049)Gln+(-0.1008)Cit+(-0.0375)Tyr+(0.0519)Ile+(0.0833)Phe+(-0.1845)Trp;0.826,0.851,0.748,0.734,0.707,0.802,0.834,0.769,(3.7876)+(0.0018)Gly+(-0.1091)His+(-0.0449)Tyr+(-0.0343)Val+(0.1182)Ile+(0.0880)Phe;0.826,0.850,0.835,0.844,0.827,0.856,0.816,0.836,(6.2377)+(-0.0402)Asn+(0.0123)Gln+(-0.1021)His+(0.0004)Ala+(-0.0102)Arg+(-0.0954)Trp;0.826,0.854,0.789,0.780,0.810,0.829,0.739,0.790,(2.8107)+(0.0377)Ser+(0.0135)Thr+(0.0257)Tyr+(-0.2625)Met+(0.0229)Leu+(-0.1595)Trp;0.826,0.851,0.775,0.766,0.741,0.816,0.841,0.791,(4.8914)+(-0.0034)Pro+(-0.0352)Val+(0.0123)Orn+(0.1662)Ile+(-0.0218)Leu+(-0.1351)Trp;0.826,0.859,0.835,0.830,0.837,0.859,0.824,0.837,(5.5275)+(0.0117)Gln+(-0.1069)His+(-0.0417)Cit+(0.0122)Val+(-0.0609)Met+(-0.1124)Trp;0.826,0.858,0.777,0.774,0.783,0.815,0.741,0.779,(2.6811)+(0.0422)Ser+(0.0097)Pro+(-0.2238)Met+(0.0102)Orn+(0.0165)Leu+(-0.1449)Trp;0.826,0.855,0.802,0.802,0.780,0.819,0.834,0.809,(6.1503)+(-0.0526)Asn+(-0.0148)Tyr+(0.0057)Lys+(0.1410)Ile+(-0.0657)Leu+(

-0.1311)Trp;0.826,0.852,0.783,0.778,0.787,0.845,0.742,0.788,(5.8664)+(0.0378)Ser+(-0.0958)His+(-0.0000)Ala+(-0.0137)Arg+(0.0095)Lys+(-0.1006)Trp;0.826,0.855,0.787,0.794,0.792,0.829,0.731,0.786,(3.8406)+(0.0420)Ser+(-0.0107)Arg+(0.0129)Pro+(0.0013)Val+(-0.1824)Met+(-0.1343)Trp;0.826,0.851,0.724,0.670,0.728,0.828,0.784,0.753,(2.7358)+(0.0493)Ser+(-0.0047)Gly+(-0.1439)His+(0.0154)Orn+(-0.0148)Lys+(0.0606)Ile;0.826,0.853,0.789,0.769,0.761,0.850,0.856,0.809,(6.2608)+(-0.0632)His+(-0.0244)Cit+(-0.0451)Val+(-0.2360)Met+(0.0119)Lys+(0.1706)Ile;0.826,0.862,0.802,0.783,0.815,0.810,0.823,0.808,(6.1313)+(-0.0928)His+(-0.0536)Cit+(0.0052)Pro+(0.0029)Lys+(0.1082)Phe+(-0.1305)Trp;0.826,0.860,0.843,0.859,0.841,0.809,0.830,0.835,(1.8008)+(0.0059)Gln+(-0.0073)Val+(-0.2404)Met+(0.0101)Orn+(0.1189)Phe+(-0.1394)Trp;0.826,0.853,0.789,0.781,0.762,0.822,0.841,0.802,(2.2437)+(-0.0687)Asn+(0.0109)Gln+(-0.1521)His+(-0.0458)Tyr+(0.0339)Ile+(0.0829)Phe;0.826,0.858,0.815,0.806,0.808,0.836,0.840,0.822,(0.9725)+(0.0126)Gln+(-0.1531)His+(-0.0002)Ala+(-0.0025)Val+(-0.2322)Met+(0.1298)Phe;0.826,0.855,0.786,0.781,0.775,0.841,0.779,0.794,(4.9671)+(0.0389)Ser+(-0.1447)Asn+(0.0143)Thr+(-0.0335)Val+(0.0662)Leu+(-0.1350)Trp;0.826,0.861,0.770,0.769,0.771,0.775,0.768,0.771,(0.5289)+(0.0339)Ser+(-0.0012)Gln+(-0.0063)Thr+(-0.0006)Leu+(0.0762)Phe+(-0.1724)Trp;0.826,0.854,0.799,0.804,0.782,0.853,0.784,0.806,(4.6996)+(0.0397)Ser+(-0.1061)Asn+(-0.0055)Ala+(0.0126)Pro+(0.0033)Lys+(-0.1313)Trp;0.826,0.852,0.793,0.779,0.812,0.828,0.766,0.796,(8.2440)+(-0.0887)His+(0.0208)Thr+(-0.0459)Cit+(0.0047)Pro+(0.0073)Val+(-0.1246)Trp;0.826,0.856,0.738,0.714,0.742,0.751,0.784,0.748,(0.3749)+(0.0333)Ser+(-0.0020)Gln+(-0.0135)Orn+(0.0468)Ile+(0.0556)Phe+(-0.1905)Trp;0.826,0.854,0.813,0.814,0.819,0.854,0.765,0.813,(9.4772)+(-0.0393)Asn+(-0.0718)His+(0.0281)Thr+(-0.0014)Ala+(-0.0422)Cit+(-0.1089)Trp;0.826,0.854,0.784,0.771,0.798,0.824,0.762,0.789,(7.7769)+(-0.1064)

His+(0.0174)Thr+(-0.0063)Tyr+(0.0056)Val+(0.0264)Orn+(-0.1119)Trp;0.826,0.852,0.785,0.774,0.797,0.828,0.762,0.790,(7.6142)+(0.0005)Gly+(-0.1026)His+(0.0150)Thr+(0.0277)Orn+(0.0030)Lys+(-0.1086)Trp;0.826,0.852,0.819,0.821,0.814,0.839,0.808,0.821,(5.8164)+(0.0112)Gln+(-0.1149)His+(-0.0169)Arg+(0.0071)Pro+(0.0108)Tyr+(-0.1070)Trp;0.826,0.851,0.765,0.746,0.736,0.822,0.837,0.785,(1.6770)+(0.0071)Gln+(-0.1516)His+(-0.0064)Pro+(0.1051)Ile+(-0.0515)Leu+(0.0710)Phe;0.826,0.847,0.776,0.759,0.727,0.853,0.870,0.802,(4.0213)+(0.0001)Gly+(0.0054)Gln+(-0.1091)His+(-0.0066)Ala+(-0.0303)Val+(0.1288)Ile;0.826,0.855,0.762,0.735,0.770,0.831,0.766,0.776,(5.0485)+(0.0432)Ser+(-0.1091)His+(-0.0083)Arg+(-0.0133)Val+(0.0516)Leu+(-0.1113)Trp;0.826,0.856,0.814,0.807,0.807,0.817,0.847,0.819,(3.1767)+(0.0031)Gly+(-0.0058)Ala+(-0.2104)Met+(0.0625)Ile+(0.0900)Phe+(-0.1481)Trp;0.826,0.853,0.826,0.827,0.820,0.846,0.821,0.829,(5.6661)+(0.0117)Gln+(-0.1214)His+(-0.0016)Ala+(-0.0127)Arg+(0.0105)Val+(-0.1088)Trp;0.826,0.851,0.748,0.723,0.731,0.830,0.790,0.769,(0.0985)+(0.0399)Ser+(0.0045)Gln+(-0.1702)His+(-0.0026)Thr+(-0.0047)Ala+(0.0964)Phe;0.826,0.850,0.723,0.697,0.717,0.804,0.742,0.740,(1.1143)+(0.0480)Ser+(-0.1548)His+(-0.0382)Tyr+(-0.0106)Lys+(0.0096)Leu+(0.1126)Phe;0.826,0.847,0.733,0.697,0.729,0.810,0.784,0.755,(0.0550)+(0.0427)Ser+(-0.0039)Gly+(0.0047)Gln+(-0.1810)His+(0.0028)Leu+(0.0811)Phe;0.826,0.861,0.816,0.803,0.831,0.856,0.792,0.821,(6.0096)+(0.0083)Gln+(-0.0955)His+(-0.0748)Cit+(0.0051)Tyr+(0.0462)Orn+(-0.1150)Trp;0.826,0.859,0.814,0.805,0.807,0.834,0.838,0.821,(0.7583)+(0.0123)Gln+(-0.1557)His+(-0.0039)Val+(-0.2467)Met+(0.0054)Lys+(0.1319)Phe;0.826,0.859,0.829,0.839,0.832,0.789,0.828,0.822,(1.5660)+(0.0060)Gln+(0.0072)Pro+(-0.2652)Met+(-0.0016)Leu+(0.1115)Phe+(-0.1489)Trp;0.826,0.858,0.784,0.754,0.793,0.821,0.819,0.797,(7.5099)+(-0.0974)His+(-0.0061)Arg+(-0.0053)Tyr+(0.0261)Orn+(0.0598)Ile+(-0.1177)Trp;0.826,0.857,0.799

,0.791,0.792,0.832,0.812,0.807,(5.4777)+(-0.0003)Gly+(0.0256)Thr+(-0.0057)Ala+(-0.2098)Met+(0.0748)Ile+(-0.1498)Trp;0.826,0.855,0.801,0.795,0.800,0.826,0.800,0.805,(4.6068)+(0.0497)Ser+(-0.1143)Asn+(-0.0076)Gly+(0.0067)Pro+(0.0177)Orn+(-0.1401)Trp;0.826,0.852,0.788,0.762,0.788,0.817,0.835,0.800,(7.4524)+(0.0025)Asn+(-0.0933)His+(0.0006)Pro+(-0.0004)Tyr+(0.0646)Ile+(-0.1202)Trp;0.826,0.855,0.812,0.816,0.821,0.854,0.753,0.811,(5.8438)+(0.0403)Ser+(-0.0903)Asn+(-0.0656)Cit+(0.0008)Arg+(0.0048)Lys+(-0.1376)Trp;0.826,0.850,0.772,0.761,0.737,0.819,0.838,0.789,(5.0301)+(0.0005)Gln+(0.0094)Thr+(-0.0405)Val+(-0.0085)Lys+(0.1506)Ile+(-0.1381)Trp;0.826,0.859,0.777,0.766,0.771,0.828,0.777,0.786,(3.1175)+(0.0448)Ser+(-0.0963)Asn+(-0.0140)Arg+(-0.0052)Tyr+(0.0603)Ile+(-0.1485)Trp;0.826,0.856,0.801,0.788,0.768,0.863,0.860,0.819,(3.9415)+(0.0096)Gln+(-0.0893)His+(-0.0106)Arg+(-0.0365)Val+(-0.2269)Met+(0.1563)Ile;0.826,0.852,0.754,0.739,0.712,0.863,0.804,0.780,(2.9897)+(0.0449)Ser+(-0.1774)Asn+(-0.0237)Arg+(-0.0604)Val+(0.0326)Orn+(0.1793)Ile;0.826,0.858,0.807,0.792,0.804,0.828,0.839,0.816,(0.7017)+(0.0126)Gln+(-0.1562)His+(0.0049)Pro+(-0.2596)Met+(0.0045)Leu+(0.1192)Phe;0.826,0.858,0.809,0.793,0.806,0.835,0.839,0.818,(0.8186)+(0.0123)Gln+(-0.1585)His+(-0.2428)Met+(0.0084)Orn+(0.0055)Leu+(0.1174)Phe;0.826,0.857,0.806,0.790,0.805,0.830,0.831,0.814,(0.7778)+(0.0122)Gln+(-0.1551)His+(0.0050)Pro+(-0.2542)Met+(0.0077)Orn+(0.1200)Phe;0.826,0.855,0.736,0.700,0.717,0.842,0.795,0.763,(2.7103)+(0.0389)Ser+(-0.1409)His+(-0.0067)Ala+(-0.0161)Tyr+(0.0143)Orn+(0.0681)Ile;0.826,0.853,0.723,0.705,0.717,0.806,0.728,0.739,(1.4124)+(0.0431)Ser+(-0.1554)His+(0.0102)Thr+(-0.0441)Tyr+(-0.0108)Lys+(0.1231)Phe;0.826,0.852,0.767,0.761,0.730,0.810,0.826,0.782,(5.0098)+(0.0063)Thr+(-0.0213)Tyr+(-0.0410)Val+(0.0119)Orn+(0.1469)Ile+(-0.1356)Trp;0.826,0.858,0.833,0.841,0.834,0.863,0.791,0.832,(4.2725)+(0.0398)Ser+(-0.0063)Gly+(0.0047)Gln+(-0.057

9)Cit+(-0.1278)Met+(-0.1360)Trp;0.826,0.854,0.771,0.764,0.742,0.823,0.816,0.786,(5.9166)+(0.0190)Thr+(-0.0328)Arg+(-0.0005)Pro+(-0.0458)Val+(0.1645)Ile+(-0.1375)Trp;0.826,0.854,0.791,0.770,0.806,0.826,0.792,0.799,(6.3853)+(0.0166)Thr+(-0.0901)Cit+(-0.0001)Arg+(-0.0124)Lys+(0.0693)Ile+(-0.1747)Trp;0.826,0.853,0.829,0.830,0.826,0.845,0.821,0.831,(5.5372)+(0.0121)Gln+(-0.1171)His+(-0.0098)Arg+(0.0105)Val+(-0.0579)Met+(-0.1053)Trp;0.826,0.852,0.789,0.786,0.754,0.828,0.843,0.803,(5.0008)+(0.0033)Gln+(-0.0250)Arg+(-0.0420)Val+(0.0009)Lys+(0.1537)Ile+(-0.1349)Trp;0.826,0.851,0.803,0.780,0.826,0.830,0.796,0.808,(6.3989)+(-0.0975)Cit+(0.0027)Pro+(-0.1135)Met+(0.0383)Orn+(0.0550)Ile+(-0.1578)Trp;0.826,0.851,0.722,0.685,0.725,0.813,0.746,0.742,(1.1345)+(0.0456)Ser+(-0.1604)His+(-0.0023)Val+(0.0179)Orn+(-0.0135)Lys+(0.1021)Phe;0.826,0.850,0.727,0.683,0.728,0.833,0.767,0.753,(3.1412)+(0.0472)Ser+(-0.0654)Asn+(-0.1346)His+(0.0045)Thr+(-0.0090)Lys+(0.0642)Ile;0.826,0.857,0.813,0.815,0.829,0.857,0.744,0.811,(9.2893)+(-0.0732)His+(0.0338)Thr+(-0.0349)Cit+(-0.0046)Arg+(-0.1085)Met+(-0.1046)Trp;0.826,0.854,0.811,0.817,0.816,0.842,0.766,0.810,(5.1046)+(0.0405)Ser+(-0.0087)Gly+(0.0186)Thr+(0.0001)Ala+(-0.1847)Met+(-0.1426)Trp;0.826,0.848,0.738,0.703,0.721,0.835,0.796,0.764,(1.3370)+(0.0360)Ser+(0.0044)Gln+(-0.1419)His+(-0.0105)Thr+(0.1046)Ile+(-0.0361)Leu;0.826,0.853,0.761,0.740,0.723,0.824,0.852,0.785,(2.6333)+(0.0060)Gln+(-0.1314)His+(-0.0308)Val+(-0.0097)Lys+(0.1072)Ile+(0.0649)Phe;0.826,0.859,0.819,0.812,0.845,0.819,0.784,0.815,(4.7599)+(-0.1103)Cit+(-0.0059)Tyr+(-0.1451)Met+(0.0459)Orn+(0.1084)Phe+(-0.1569)Trp;0.826,0.848,0.710,0.659,0.707,0.808,0.781,0.739,(0.4180)+(0.0479)Ser+(-0.0030)Gly+(-0.1718)His+(-0.0034)Pro+(0.0406)Ile+(0.0676)Phe;0.826,0.847,0.728,0.698,0.716,0.833,0.759,0.751,(2.9124)+(0.0382)Ser+(-0.1151)His+(-0.0469)Cit+(-0.0222)Tyr+(0.1158)Ile+(-0.0384)Leu;0.826,0.863,0.817,0.810,0.812,0.826,0.836,0.8

21,(6.4123)+(-0.0998)His+(-0.0023)Ala+(-0.0037)Arg+(-0.0096)Tyr+(0.1142)Phe+(-0.1098)Trp;0.826,0.857,0.825,0.832,0.829,0.816,0.805,0.821,(5.1793)+(-0.0811)Asn+(0.0264)Thr+(-0.0062)Ala+(-0.0196)Arg+(0.0950)Phe+(-0.1600)Trp;0.826,0.850,0.830,0.825,0.850,0.845,0.791,0.828,(5.9639)+(-0.0833)Asn+(0.0069)Gln+(-0.1129)Cit+(0.0486)Orn+(0.0084)Leu+(-0.1590)Trp;0.826,0.854,0.781,0.781,0.796,0.822,0.721,0.780,(3.3551)+(0.0359)Ser+(0.0165)Thr+(-0.2225)Met+(-0.0038)Lys+(0.0254)Leu+(-0.1515)Trp;0.826,0.849,0.778,0.755,0.803,0.815,0.758,0.783,(5.1212)+(0.0031)Gly+(0.0042)Thr+(-0.1181)Cit+(0.0364)Orn+(0.0535)Ile+(-0.1834)Trp;0.826,0.855,0.792,0.792,0.798,0.840,0.746,0.794,(3.2531)+(0.0420)Ser+(0.0118)Pro+(0.0243)Tyr+(0.0005)Val+(-0.2295)Met+(-0.1429)Trp;0.826,0.852,0.799,0.781,0.811,0.818,0.806,0.804,(4.3362)+(0.0039)Gln+(0.0071)Thr+(-0.0936)Cit+(-0.0003)Pro+(0.0613)Ile+(-0.1890)Trp;0.826,0.851,0.728,0.713,0.712,0.799,0.749,0.743,(0.0706)+(0.0391)Ser+(0.0040)Gln+(-0.1662)His+(0.0040)Pro+(-0.0489)Tyr+(0.1110)Phe;0.826,0.847,0.786,0.762,0.811,0.816,0.777,0.792,(5.54
32)+(0.0065)Thr+(-0.1132)Cit+(-0.0006)Pro+(0.0361)Orn+(0.0518)Ile+(-0.1833)Trp;0.826,0.851,0.805,0.807,0.807,0.846,0.768,0.807,(8.9156)+(-0.0387)Asn+(0.0008)Gly+(-0.0847)His+(0.0249)Thr+(-0.0010)Ala+(-0.1036)Trp;0.826,0.854,0.790,0.780,0.796,0.853,0.760,0.797,(5.8941)+(0.0399)Ser+(-0.0951)His+(-0.0009)Ala+(-0.0109)Arg+(0.0253)Tyr+(-0.1030)Trp;0.826,0.853,0.769,0.739,0.764,0.843,0.807,0.788,(5.7219)+(0.0243)Asn+(-0.1265)His+(0.0315)Thr+(-0.0046)Ala+(-0.2494)Met+(0.0785)Ile;0.826,0.852,0.803,0.791,0.832,0.805,0.770,0.800,(4.8075)+(0.0191)Thr+(-0.1024)Cit+(0.0033)Pro+(-0.0124)Lys+(0.0978)Phe+(-0.1813)Trp;0.826,0.851,0.808,0.807,0.802,0.829,0.807,0.812,(5.5285)+(0.0090)Gln+(-0.1162)His+(0.0064)Pro+(0.0041)Tyr+(0.0044)Lys+(-0.1100)Trp;0.826,0.845,0.763,0.743,0.715,0.843,0.859,0.790,(5.3648)+(-0.0950)His+(0.0101)Thr+(-0.00

70)Ala+(-0.0324)Val+(0.1448)Ile+(-0.0073)Leu;0.826,0.860,0.779,0.768,0.783,0.770,0.804,0.781,(1.1889)+(0.0413)Ser+(-0.0078)Gly+(-0.0013)Gln+(-0.0021)Leu+(0.0706)Phe+(-0.1733)Trp;0.826,0.856,0.809,0.791,0.820,0.803,0.839,0.813,(5.0329)+(-0.0507)Asn+(-0.0919)Cit+(0.0047)Arg+(0.0482)Ile+(0.0710)Phe+(-0.1769)Trp;0.826,0.856,0.809,0.797,0.805,0.829,0.838,0.817,(0.8293)+(-0.0095)Asn+(0.0128)Gln+(-0.1534)His+(0.0053)Pro+(-0.2480)Met+(0.1220)Phe;0.826,0.856,0.817,0.818,0.835,0.815,0.779,0.812,(3.5531)+(0.0059)Gly+(-0.0911)Cit+(0.0115)Arg+(-0.1907)Met+(0.1313)Phe+(-0.1510)Trp;0.826,0.853,0.800,0.789,0.829,0.806,0.766,0.797,(3.5965)+(0.0023)Gln+(0.0058)Thr+(-0.1281)Cit+(0.0392)Orn+(0.0738)Phe+(-0.1891)Trp;0.826,0.853,0.780,0.760,0.754,0.867,0.824,0.801,(4.4165)+(0.0028)Gly+(-0.0719)Cit+(-0.0546)Val+(-0.2663)Met+(0.0402)Orn+(0.1826)Ile;0.826,0.859,0.746,0.714,0.756,0.850,0.734,0.763,(3.9235)+(0.0386)Ser+(-0.1290)His+(0.0305)Thr+(-0.0313)Val+(-0.2785)Met+(0.0818)Leu;0.826,0.856,0.786,0.771,0.816,0.846,0.723,0.789,(7.8751)+(0.0027)Gly+(-0.0825)His+(0.0149)Thr+(-0.0820)Cit+(0.0514)Orn+(-0.1165)Trp;0.826,0.854,0.741,0.710,0.733,0.842,0.767,0.763,(3.1582)+(0.0480)Ser+(-0.0578)Asn+(-0.1127)His+(-0.0195)Arg+(0.1201)Ile+(-0.0426)Leu;0.826,0.852,0.809,0.805,0.809,0.836,0.798,0.812,(5.6209)+(0.0083)Gln+(-0.1174)His+(0.0056)Tyr+(0.0227)Orn+(0.0029)Lys+(-0.1069)Trp;0.826,0.855,0.820,0.820,0.843,0.838,0.757,0.815,(5.2721)+(0.0054)Gln+(0.0257)Thr+(-0.0749)Cit+(-0.2017)Met+(0.0206)Leu+(-0.1598)Trp;0.826,0.855,0.807,0.817,0.809,0.849,0.747,0.805,(4.5916)+(0.0380)Ser+(-0.0734)Asn+(-0.1052)Met+(0.0230)Orn+(0.0037)Lys+(-0.1331)Trp;0.826,0.852,0.773,0.759,0.748,0.828,0.823,0.790,(2.1155)+(0.0308)Ser+(-0.0090)Ala+(-0.0047)Tyr+(-0.0010)Orn+(0.0737)Ile+(-0.1622)Trp;0.826,0.855,0.792,0.786,0.804,0.840,0.747,0.794,(8.1747)+(0.0022)Gly+(-0.0817)His+(0.0192)Thr+(-0.0455)Cit+(0.0071)Pro+(-0.1154)Trp;0.826,0.855,0.795,0.788,0.812,0.837,0.

750,0.797,(8.7264)+(-0.0307)Asn+(-0.0917)His+(0.0232)Thr+(-0.0139)Arg+(0.0318)Orn+(-0.1062)Trp;0.826,0.854,0.727,0.679,0.733,0.835,0.766,0.753,(2.9995)+(0.0478)Ser+(-0.0647)Asn+(-0.1351)His+(0.0167)Orn+(-0.0097)Lys+(0.0610)Ile;0.826,0.852,0.787,0.779,0.796,0.851,0.741,0.792,(5.9804)+(0.0385)Ser+(-0.0876)His+(-0.0299)Cit+(-0.0082)Arg+(0.0086)Lys+(-0.1044)Trp;0.826,0.851,0.774,0.751,0.743,0.847,0.850,0.798,(2.1893)+(0.0074)Gln+(-0.1641)His+(0.0065)Thr+(-0.0072)Ala+(0.0420)Ile+(0.0536)Phe;0.826,0.858,0.807,0.790,0.819,0.813,0.823,0.811,(6.2681)+(-0.0942)His+(-0.0516)Cit+(0.0014)Val+(0.0034)Lys+(0.1105)Phe+(-0.1295)Trp;0.826,0.853,0.789,0.784,0.719,0.859,0.896,0.815,(3.4028)+(-0.1419)Asn+(0.0041)Gly+(-0.0081)Ala+(-0.0596)Val+(0.1790)Ile+(0.0738)Phe;0.826,0.860,0.821,0.819,0.819,0.809,0.840,0.822,(3.8443)+(-0.0349)Val+(-0.2238)Met+(0.0212)Orn+(0.0568)Leu+(0.1099)Phe+(-0.1357)Trp;0.826,0.858,0.809,0.795,0.805,0.836,0.836,0.818,(0.7811)+(0.0121)Gln+(-0.1585)His+(-0.2426)Met+(0.0091)Orn+(0.0026)Lys+(0.1221)Phe;0.826,0.852,0.815,0.817,0.815,0.844,0.793,0.817,(5.9055)+(0.0003)Gly+(0.0101)Gln+(-0.1130)His+(-0.0176)Arg+(0.0294)Orn+(-0.1003)Trp;0.826,0.850,0.774,0.750,0.740,0.831,0.871,0.798,(4.9948)+(-0.0816)Asn+(-0.0768)His+(-0.0378)Cit+(-0.0449)Val+(0.1369)Ile+(0.0827)Phe;0.826,0.850,0.808,0.804,0.841,0.844,0.724,0.803,(7.2131)+(0.0203)Thr+(-0.1014)Cit+(0.0012)Val+(-0.1422)Met+(0.0465)Orn+(-0.1476)Trp;0.826,0.854,0.799,0.789,0.790,0.834,0.822,0.809,(6.2971)+(-0.0685)Cit+(-0.0056)Arg+(0.0017)Lys+(0.1469)Ile+(-0.0607)Leu+(-0.1473)Trp;0.826,0.854,0.793,0.772,0.806,0.839,0.789,0.802,(8.3750)+(-0.0954)His+(0.0261)Thr+(-0.0038)Ala+(-0.0479)Cit+(0.0299)Leu+(-0.1276)Trp;0.826,0.851,0.806,0.807,0.831,0.829,0.733,0.800,(7.3115)+(0.0252)Thr+(-0.0659)Cit+(0.0098)Pro+(-0.1877)Met+(0.0040)Lys+(-0.1455)Trp;0.826,0.849,0.792,0.782,0.797,0.829,0.781,0.797,(7.8079)+(0.0021)Gly+(-0.0889)His+(-0.0041)Ala+(0.0097)Pro+(0.0329)Orn+

(-0.0994)Trp;0.825,0.857,0.779,0.753,0.756,0.848,0.843,0.800,(6.1381)+(-0.0669)His+(-0.0054)Arg+(-0.0448)Val+(-0.2054)Met+(0.0339)Orn+(0.1655)Ile;0.825,0.852,0.794,0.786,0.821,0.809,0.745,0.790,(4.1337)+(0.0029)Gly+(-0.1279)Cit+(-0.0052)Val+(0.0480)Orn+(0.0842)Phe+(-0.1734)Trp;0.825,0.854,0.766,0.740,0.761,0.842,0.791,0.783,(5.6387)+(0.0037)Gly+(-0.1253)His+(0.0299)Thr+(-0.0046)Ala+(-0.2320)Met+(0.0791)Ile;0.825,0.852,0.776,0.769,0.740,0.811,0.842,0.791,(5.4353)+(-0.0018)Gly+(-0.0193)Tyr+(-0.0411)Val+(0.0174)Orn+(0.1468)Ile+(-0.1305)Trp;0.825,0.851,0.772,0.766,0.736,0.810,0.835,0.787,(5.0794)+(0.0002)Gln+(-0.0178)Tyr+(-0.0408)Val+(0.0150)Orn+(0.1464)Ile+(-0.1328)Trp;0.825,0.851,0.774,0.765,0.737,0.813,0.844,0.790,(5.0549)+(-0.0016)Gly+(0.0060)Thr+(-0.0357)Val+(0.1615)Ile+(-0.0190)Leu+(-0.1391)Trp;0.825,0.851,0.813,0.816,0.808,0.832,0.800,0.814,(5.6207)+(0.0109)Gln+(-0.1176)His+(-0.0215)Arg+(0.0078)Pro+(0.0093)Lys+(-0.1098)Trp;0.825,0.861,0.816,0.814,0.808,0.790,0.856,0.817,(4.9834)+(-0.0822)Asn+(0.0057)Pro+(-0.0310)Val+(0.0464)Leu+(0.0860)Phe+(-0.1487)Trp;0.825,0.856,0.826,0.833,0.829,0.833,0.799,0.824,(5.0581)+(-0.0546)Asn+(0.0056)Gly+(-0.0046)Ala+(-0.0894)Cit+(0.1116)Phe+(-0.1514)Trp;0.825,0.855,0.776,0.752,0.776,0.819,0.809,0.789,(6.9299)+(0.0045)Gly+(-0.1003)His+(-0.0068)Arg+(0.0044)Lys+(0.0658)Ile+(-0.1200)Trp;0.825,0.851,0.728,0.710,0.728,0.806,0.720,0.741,(1.1073)+(0.0475)Ser+(-0.1528)His+(-0.0235)Arg+(-0.0470)Tyr+(0.0212)Orn+(0.1209)Phe;0.825,0.850,0.739,0.708,0.722,0.844,0.784,0.764,(2.8806)+(0.0449)Ser+(-0.1341)His+(-0.0064)Ala+(-0.0159)Arg+(-0.0087)Tyr+(0.0735)Ile;0.825,0.856,0.793,0.791,0.779,0.842,0.794,0.801,(4.1483)+(0.0416)Ser+(-0.1027)Asn+(-0.0061)Ala+(0.0107)Pro+(0.0142)Leu+(-0.1377)Trp;0.825,0.855,0.791,0.800,0.790,0.827,0.741,0.789,(3.0697)+(0.0375)Ser+(0.0021)Gln+(0.0121)Pro+(0.0010)Val+(-0.2038)Met+(-0.1384)Trp;0.825,0.851,0.782,0.764,0.788,0.830,0.783,0.791,(7.7721)+(0.0016)Gl

y+(-0.1114)His+(0.0221)Thr+(-0.0032)Ala+(0.0285)Leu+(-0.1203)Trp;0.825,0.852,0.795,0.788,0.804,0.830,0.767,0.797,(8.4066)+(-0.0325)Asn+(0.0015)Gly+(-0.0972)His+(0.0226)Thr+(0.0067)Val+(-0.1120)Trp;0.825,0.854,0.796,0.773,0.761,0.862,0.885,0.820,(6.1834)+(-0.0577)His+(-0.0044)Ala+(0.0213)Tyr+(-0.0438)Val+(-0.2116)Met+(0.1769)Ile;0.825,0.854,0.795,0.780,0.828,0.804,0.757,0.792,(4.3282)+(0.0081)Thr+(-0.1269)Cit+(0.0412)Orn+(-0.0008)Leu+(0.0760)Phe+(-0.1868)Trp;0.825,0.848,0.769,0.749,0.724,0.848,0.861,0.796,(4.1165)+(0.0043)Gln+(-0.1098)His+(-0.0068)Ala+(-0.0320)Val+(0.0202)Orn+(0.1276)Ile;0.825,0.860,0.824,0.820,0.823,0.802,0.849,0.824,(1.3437)+(0.0058)Gln+(0.0042)Tyr+(-0.2837)Met+(0.0522)Ile+(0.0883)Phe+(-0.1585)Trp;0.825,0.858,0.817,0.808,0.829,0.855,0.788,0.820,(6.1119)+(0.0092)Gln+(-0.0944)His+(-0.0688)Cit+(-0.0094)Arg+(0.0473)Orn+(-0.1113)Trp;0.825,0.857,0.809,0.799,0.802,0.831,0.833,0.816,(0.8964)+(0.0124)Gln+(-0.1495)His+(0.0065)Pro+(-0.0045)Val+(-0.2551)Met+(0.1291)Phe;0.825,0.853,0.813,0.804,0.810,0.842,0.825,0.820,(5.5872)+(0.0112)Gln+(-0.1236)His+(-0.0136)Arg+(-0.0116)Val+(0.0432)Leu+(-0.1124)Trp;0.825,0.856,0.822,0.811,0.821,0.844,0.840,0.829,(0.9723)+(-0.0197)Asn+(0.0141)Gln+(-0.1469)His+(-0.0415)Cit+(-0.2164)Met+(0.1275)Phe;0.825,0.854,0.770,0.758,0.737,0.819,0.835,0.787,(5.0673)+(0.0082)Thr+(-0.0413)Val+(0.0112)Orn+(-0.0090)Lys+(0.1501)Ile+(-0.1363)Trp;0.825,0.851,0.781,0.761,0.782,0.828,0.799,0.792,(7.9423)+(-0.1063)His+(0.0245)Thr+(-0.0027)Ala+(-0.0184)Val+(0.0563)Leu+(-0.1195)Trp;0.825,0.864,0.765,0.764,0.766,0.762,0.765,0.764,(0.3567)+(0.0290)Ser+(0.0022)Pro+(-0.0046)Orn+(-0.0023)Leu+(0.0739)Phe+(-0.1799)Trp;0.825,0.855,0.795,0.793,0.803,0.833,0.758,0.797,(8.9214)+(-0.0313)Asn+(-0.0857)His+(0.0252)Thr+(-0.0116)Arg+(0.0064)Pro+(-0.1084)Trp;0.825,0.853,0.834,0.839,0.830,0.857,0.815,0.835,(5.7421)+(0.0105)Gln+(-0.0966)His+(-0.0304)Cit+(-0.0777)Met+(0.0094)Lys+(-0.1021)Trp;0.825,0.851,0

.774,0.755,0.786,0.808,0.777,0.782,(7.7165)+(-0.1110)His+(0.0214)Thr+(0.0030)Pro+(-0.0066)Tyr+(0.0242)Leu+(-0.1217)Trp;0.825,0.854,0.801,0.785,0.811,0.797,0.828,0.805,(2.7299)+(0.0040)Gln+(-0.1026)Cit+(-0.0009)Pro+(0.0512)Ile+(0.0622)Phe+(-0.1957)Trp;0.825,0.852,0.812,0.806,0.846,0.847,0.732,0.808,(7.1828)+(0.0204)Thr+(-0.1004)Cit+(0.0112)Tyr+(-0.1572)Met+(0.0457)Orn+(-0.1488)Trp;0.825,0.858,0.816,0.806,0.808,0.836,0.842,0.823,(1.0462)+(-0.0146)Asn+(0.0129)Gln+(-0.1532)His+(-0.0007)Ala+(-0.2197)Met+(0.1246)Phe;0.825,0.854,0.772,0.741,0.767,0.845,0.810,0.791,(5.9867)+(-0.1201)His+(0.0315)Thr+(-0.0056)Ala+(0.0043)Pro+(-0.2322)Met+(0.0722)Ile;0.825,0.853,0.777,0.765,0.744,0.818,0.849,0.794,(5.2803)+(-0.0011)Gly+(-0.0412)Val+(0.0160)Orn+(-0.0058)Lys+(0.1483)Ile+(-0.1327)Trp;0.825,0.851,0.808,0.806,0.840,0.846,0.721,0.803,(7.2404)+(0.0002)Gly+(0.0202)Thr+(-0.1009)Cit+(-0.1403)Met+(0.0473)Orn+(-0.1457)Trp;0.825,0.849,0.812,0.805,0.749,0.890,0.904,0.837,(4.3390)+(-0.1253)Asn+(0.0068)Gln+(-0.0086)Ala+(-0.0712)Cit+(-0.0507)Val+(0.1815)Ile;0.825,0.859,0.828,0.836,0.832,0.793,0.822,0.821,(3.3635)+(-0.1271)Asn+(0.0051)Gln+(0.0156)Thr+(0.0002)Pro+(0.0734)Phe+(-0.1665)Trp;0.825,0.858,0.830,0.837,0.835,0.795,0.826,0.823,(3.4556)+(-0.1265)Asn+(-0.0007)Gly+(0.0051)Gln+(0.0161)Thr+(0.0729)Phe+(-0.1668)Trp;0.825,0.853,0.822,0.825,0.821,0.850,0.798,0.823,(5.8868)+(0.0106)Gln+(-0.1067)His+(-0.0142)Arg+(-0.0508)Met+(0.0303)Orn+(-0.0961)Trp;0.825,0.851,0.819,0.819,0.817,0.837,0.811,0.821,(5.4609)+(0.0115)Gln+(-0.1252)His+(-0.0175)Arg+(0.0082)Val+(0.0066)Lys+(-0.1124)Trp;0.825,0.850,0.751,0.725,0.750,0.823,0.771,0.767,(-0.2171)+(0.0453)Ser+(-0.0031)Gly+(0.0075)Gln+(-0.1780)His+(-0

.0292)Arg+(0.0960)Phe;0.825,0.846,0.734,0.700,0.701,0.829,0.821,0.763,(3.1395)+(0.0427)Ser+(-0.0066)Gly+(-0.1118)His+(-0.0194)Tyr+(-0.0290)Val+(0.1234)Ile;0.825,0.857,0.798,0.790,0.791,0.834,0.811,0.806,(5.5

817)+(0.0262)Thr+(-0.0057)Ala+(-0.2037)Met+(-0.0031)Lys+(0.0765)Ile+(-0.1477)Trp;0.825,0.854,0.793,0.801,0.790,0.837,0.747,0.794,(4.6222)+(0.0386)Ser+(-0.1186)Asn+(0.0079)Pro+(-0.0048)Val+(0.0196)Orn+(-0.1290)Trp;0.825,0.853,0.813,0.801,0.815,0.832,0.830,0.820,(4.7149)+(0.0061)Gln+(-0.0919)Cit+(-0.0068)Tyr+(-0.0106)Lys+(0.0707)Ile+(-0.1723)Trp;0.825,0.859,0.809,0.792,0.820,0.818,0.824,0.813,(6.2940)+(-0.0924)His+(-0.0555)Cit+(0.0038)Arg+(0.0024)Val+(0.1113)Phe+(-0.1293)Trp;0.825,0.856,0.830,0.829,0.826,0.808,0.854,0.829,(4.4200)+(-0.0223)Asn+(-0.0313)Val+(-0.1935)Met+(0.0545)Leu+(0.1169)Phe+(-0.1365)Trp;0.825,0.853,0.785,0.772,0.793,0.848,0.754,0.792,(5.6616)+(0.0390)Ser+(-0.1000)His+(-0.0145)Arg+(0.0188)Tyr+(0.0075)Lys+(-0.1075)Trp;0.825,0.852,0.813,0.809,0.843,0.842,0.743,0.809,(8.1618)+(-0.0765)Asn+(0.0156)Thr+(-0.1080)Cit+(-0.0020)Val+(0.0527)Orn+(-0.1469)Trp;0.825,0.852,0.834,0.843,0.824,0.857,0.813,0.834,(6.2082)+(-0.0409)Asn+(0.0010)Gly+(0.0121)Gln+(-0.1018)His+(-0.0101)Arg+(-0.0949)Trp;0.825,0.858,0.827,0.837,0.830,0.785,0.826,0.820,(1.5154)+(0.0059)Gln+(0.0070)Pro+(-0.2694)Met+(0.0017)Lys+(0.1093)Phe+(-0.1509)Trp;0.825,0.852,0.741,0.710,0.746,0.818,0.757,0.758,(1.3934)+(0.0571)Ser+(-0.1054)Asn+(-0.1421)His+(-0.0358)Cit+(0.0025)Leu+(0.1099)Phe;0.825,0.852,0.821,0.822,0.818,0.843,0.808,0.823,(5.9606)+(0.0110)Gln+(-0.1005)His+(-0.0354)Cit+(-0.0108)Arg+(0.0091)Pro+(-0.1095)Trp;0.825,0.850,0.770,0.750,0.777,0.813,0.777,0.779,(7.6318)+(0.0012)Gly+(-0.1107)His+(0.0227)Thr+(-0.0189)Val+(0.0552)Leu+(-0.1202)Trp;0.825,0.854,0.813,0.810,0.824,0.844,0.775,0.813,(5.6525)+(0.0472)Ser+(-0.0800)Asn+(-0.0045)Gly+(-0.0645)Cit+(0.0055)Val+(-0.1438)Trp;0.825,0.850,0.780,0.773,0.742,0.816,0.852,0.796,(4.7647)+(-0.0011)Gly+(0.0013)Gln+(-0.0336)Val+(0.1624)Ile+(-0.0228)Leu+(-0.1374)Trp;0.825,0.850,0.784,0.771,0.797,0.792,0.784,0.786,(4.3325)+(-0.1212)Cit+(-0.0355)Tyr+(0.0384)Orn+(0.0424)Ile+(0.0773)Phe+(-0.1782)T

rp;0.825,0.847,0.740,0.706,0.733,0.813,0.790,0.760,(-0.0452)+(0.0441)Ser+(-0.0038)Gly+(0.0051)Gln+(-0.1775)His+(-0.0045)Thr+(0.0858)Phe;0.825,0.846,0.735,0.700,0.730,0.809,0.783,0.755,(0.0815)+(0.0427)Ser+(-0.0039)Gly+(0.0047)Gln+(-0.1797)His+(0.0005)Pro+(0.0837)Phe;0.825,0.853,0.775,0.761,0.750,0.831,0.828,0.792,(1.9607)+(0.0331)Ser+(-0.0042)Thr+(-0.0088)Ala+(-0.0022)Tyr+(0.0742)Ile+(-0.1603)Trp;0.825,0.850,0.797,0.789,0.807,0.824,0.779,0.800,(8.4198)+(-0.0382)Asn+(-0.0969)His+(0.0222)Thr+(0.0052)Val+(0.0055)Lys+(-0.1145)Trp;0.825,0.847,0.778,0.762,0.729,0.853,0.870,0.803,(3.9981)+(0.0054)Gln+(-0.1065)His+(-0.0067)Ala+(-0.0266)Val+(0.1374)Ile+(-0.0123)Leu;0.825,0.854,0.794,0.794,0.799,0.830,0.755,0.795,(3.6190)+(0.0436)Ser+(-0.0663)Asn+(-0.1374)Met+(0.0177)Orn+(0.0197)Leu+(-0.1410)Trp;0.825,0.851,0.779,0.753,0.786,0.819,0.804,0.790,(7.6356)+(-0.0991)His+(0.0048)Pro+(-0.0216)Val+(0.0334)Orn+(0.0512)Leu+(-0.1104)Trp;0.825,0.849,0.773,0.766,0.737,0.815,0.840,0.789,(4.9153)+(0.0056)Thr+(-0.0031)Pro+(-0.0351)Val+(0.1668)Ile+(-0.0208)Leu+(-0.1388)Trp;0.825,0.847,0.735,0.698,0.724,0.824,0.792,0.760,(1.0134)+(0.0489)Ser+(-0.0027)Gly+(-0.1616)His+(-0.0054)Ala+(0.0082)Leu+(0.0892)Phe;0.825,0.861,0.800,0.796,0.787,0.808,0.834,0.806,(1.2073)+(0.0404)Ser+(-0.0070)Gly+(-0.0004)Gln+(-0.0064)Ala+(0.0822)Phe+(-0.1632)Trp;0.825,0.855,0.800,0.789,0.788,0.836,0.825,0.810,(6.3098)+(-0.0716)Cit+(0.0002)Pro+(-0.0065)Tyr+(0.1450)Ile+(-0.0582)Leu+(-0.1452)Trp;0.825,0.853,0.736,0.719,0.721,0.818,0.754,0.753,(1.2624)+(0.0469)Ser+(-0.1489)His+(-0.0024)Ala+(-0.0337)Tyr+(-0.0075)Lys+(0.1217)Phe;0.825,0.852,0.779,0.769,0.752,0.825,0.832,0.794,(5.8719)+(-0.0003)Gly+(-0.0259)Arg+(-0.0453)Val+(0.0265)Orn+(0.1569)Ile+(-0.1281)Trp;0.825,0.856,0.800,0.797,0.806,0.826,0.778,0.802,(6.3272)+(0.0338)Thr+(-0.0359)Val+(-0.2484)Met+(0.0009)Lys+(0.0757)Leu+(-0.1416)Trp;0.825,0.853,0.781,0.780,0.795,0.822,0.722,0.780,(3.1278)+(0.0350)Ser+(0.01

33)Thr+(-0.2265)Met+(0.0093)Orn+(0.0220)Leu+(-0.1528)Trp;0.825,0.859,0.809,0.799,0.796,0.837,0.845,0.819,(5.9681)+(-0.0001)Asn+(0.0149)Tyr+(-0.1723)Met+(0.1513)Ile+(-0.0617)Leu+(-0.1283)Trp;0.825,0.858,0.805,0.795,0.794,0.837,0.831,0.814,(5.5500)+(0.0024)Gly+(0.0177)Tyr+(-0.1850)Met+(0.1530)Ile+(-0.0621)Leu+(-0.1289)Trp;0.825,0.853,0.795,0.778,0.745,0.866,0.889,0.820,(4.7257)+(-0.0075)Ala+(0.0084)Pro+(0.0181)Tyr+(-0.0546)Val+(-0.2761)Met+(0.1936)Ile;0.825,0.854,0.794,0.779,0.794,0.849,0.792,0.804,(5.7905)+(0.0439)Ser+(-0.0045)Gly+(-0.0941)His+(-0.0008)Ala+(0.0185)Tyr+(-0.1036)Trp;0.825,0.859,0.817,0.825,0.821,0.789,0.807,0.811,(3.7312)+(0.0091)Pro+(-0.0098)Val+(-0.2279)Met+(0.0147)Orn+(0.1163)Phe+(-0.1316)Trp;0.825,0.854,0.806,0.797,0.833,0.810,0.769,0.802,(4.8411)+(0.0205)Thr+(-0.1002)Cit+(-0.0010)Val+(-0.0120)Lys+(0.1017)Phe+(-0.1798)Trp;0.825,0.853,0.793,0.776,0.753,0.858,0.873,0.815,(6.4361)+(-0.0563)His+(-0.0041)Ala+(-0.0394)Val+(-0.1780)Met+(0.1794)Ile+(-0.0087)Leu;0.825,0.849,0.775,0.762,0.753,0.824,0.821,0.790,(1.6396)+(0.0104)Gln+(-0.1491)His+(-0.0309)Arg+(0.1098)Ile+(-0.0586)Leu+(0.0787)Phe;0.825,0.860,0.796,0.793,0.803,0.788,0.793,0.794,(1.3627)+(0.0448)Ser+(-0.0074)Gly+(-0.0270)Arg+(-0.0020)Leu+(0.0841)Phe+(-0.1703)Trp;0.825,0.856,0.795,0.781,0.804,0.862,0.765,0.803,(5.9542)+(0.0397)Ser+(-0.0865)His+(-0.0013)Ala+(-0.0396)Cit+(0.0267)Tyr+(-0.1095)Trp;0.825,0.852,0.802,0.799,0.783,0.826,0.833,0.810,(5.9302)+(-0.0506)Asn+(0.0015)Gly+(-0.0023)Pro+(0.1422)Ile+(-0.0633)Leu+(-0.1326)Trp;0.825,0.850,0.746,0.719,0.743,0.830,0.765,0.764,(0.3828)+(0.0417)Ser+(0.0059)Gln+(-0.1645)His+(-0.0422)Cit+(-0.0145)Lys+(0.1050)Phe;0.825,0.849,0.733,0.707,0.710,0.833,0.777,0.757,(2.0443)+(0.0310)Ser+(0.0038)Gln+(-0.1391)His+(-0.0236)Tyr+(0.1006)Ile+(-0.0312)Leu;0.825,0.855,0.846,0.851,0.839,0.868,0.829,0.847,(6.3495)+(-0.0438)Asn+(0.0121)Gln+(-0.0878)His+(-0.0359)Cit+(-0.0188)Met+(-0.0982)Trp;0.825,0.853,0.737

,0.705,0.744,0.814,0.755,0.754,(1.3214)+(0.0574)Ser+(-0.1081)Asn+(-0.1413)His+(-0.0357)Cit+(0.0031)Pro+(0.1094)Phe;0.825,0.860,0.801,0.779,0.808,0.812,0.836,0.809,(6.3878)+(-0.0928)His+(-0.0485)Cit+(-0.0131)Val+(0.0322)Leu+(0.1047)Phe+(-0.1285)Trp;0.825,0.855,0.807,0.811,0.814,0.834,0.763,0.806,(4.6986)+(0.0420)Ser+(-0.0087)Gly+(0.0175)Thr+(0.0041)Val+(-0.1924)Met+(-0.1478)Trp;0.825,0.851,0.820,0.803,0.817,0.843,0.853,0.829,(6.8832)+(0.0012)Asn+(-0.0064)Ala+(-0.0703)Cit+(-0.0680)Met+(0.0810)Ile+(-0.1472)Trp;0.825,0.851,0.794,0.782,0.796,0.827,0.800,0.801,(7.7666)+(-0.0924)His+(-0.0044)Ala+(0.0096)Pro+(0.0303)Orn+(0.0074)Lys+(-0.1063)Trp;0.825,0.859,0.767,0.778,0.761,0.765,0.753,0.764,(0.5595)+(0.0306)Ser+(-0.0422)Tyr+(0.0007)Orn+(-0.0011)Leu+(0.0968)Phe+(-0.1655)Trp;0.825,0.856,0.801,0.796,0.809,0.834,0.775,0.804,(3.2838)+(0.0467)Ser+(-0.0583)Asn+(0.0288)Tyr+(-0.1812)Met+(0.0224)Leu+(-0.1494)Trp;0.825,0.851,0.808,0.804,0.840,0.840,0.726,0.803,(7.8044)+(-0.0778)Asn+(0.0023)Gly+(0.0142)Thr+(-0.1118)Cit+(0.0518)Orn+(-0.1495)Trp;0.825,0.850,0.712,0.668,0.707,0.804,0.776,0.739,(-0.3896)+(0.0391)Ser+(0.0037)Gln+(-0.1824)His+(-0.0032)Orn+(0.0353)Ile+(0.0662)Phe;0.825,0.846,0.759,0.734,0.717,0.840,0.855,0.786,(5.1376)+(-0.1002)His+(0.0074)Thr+(-0.0070)Ala+(-0.0354)Val+(0.0230)Orn+(0.1358)Ile;0.825,0.846,0.709,0.657,0.707,0.805,0.783,0.738,(0.2680)+(0.0498)Ser+(-0.0029)Gly+(-0.1687)His+(-0.0047)Thr+(0.0374)Ile+(0.0671)Phe;0.825,0.850,0.798,0.783,0.812,0.818,0.794,0.802,(4.4431)+(0.0045)Gln+(0.0103)Thr+(-0.0876)Cit+(-0.0124)Arg+(0.0615)Ile+(-0.1880)Trp;0.825,0.858,0.810,0.795,0.807,0.831,0.841,0.819,(0.6791)+(0.0127)Gln+(-0.1600)His+(-0.2500)Met+(0.0024)Lys+(0.0059)Leu+(0.1205)Phe;0.825,0.853,0.787,0.789,0.799,0.824,0.732,0.786,(2.8473)+(0.0334)Ser+(0.0017)Gln+(0.0145)Thr+(-0.2327)Met+(0.0231)Leu+(-0.1546)Trp;0.825,0.852,0.810,0.801,0.824,0.847,0.780,0.813,(7.4715)+(-0.0081)Ala+(-0.1178)Cit+(-0.0020)Arg+(0.01

28)Pro+(0.0584)Orn+(-0.1484)Trp;0.825,0.853,0.796,0.790,0.811,0.837,0.754,0.798,(8.6769)+(-0.0810)His+(0.0229)Thr+(-0.0370)Cit+(-0.0086)Arg+(0.0070)Pro+(-0.1157)Trp;0.825,0.851,0.807,0.808,0.832,0.833,0.732,0.801,(7.4704)+(0.0262)Thr+(-0.0681)Cit+(0.0092)Pro+(0.0019)Val+(-0.1772)Met+(-0.1460)Trp;0.825,0.849,0.731,0.686,0.729,0.831,0.783,0.757,(2.9961)+(0.0500)Ser+(-0.0735)Asn+(-0.0028)Gly+(-0.1384)His+(0.0030)Thr+(0.0569)Ile;0.825,0.847,0.740,0.707,0.738,0.838,0.760,0.761,(1.3275)+(0.0374)Ser+(0.0070)Gln+(-0.1636)His+(-0.0000)Thr+(-0.0268)Arg+(0.0554)Ile;0.825,0.850,0.802,0.796,0.808,0.837,0.782,0.806,(8.6877)+(-0.0276)Asn+(-0.0950)His+(0.0242)Thr+(-0.0022)Ala+(0.0077)Val+(-0.1122)Trp;0.825,0.853,0.817,0.816,0.819,0.842,0.801,0.819,(5.8399)+(0.0103)Gln+(-0.1162)His+(-0.0183)Arg+(0.0109)Tyr+(0.0270)Orn+(-0.1048)Trp;0.825,0.848,0.780,0.762,0.731,0.854,0.873,0.805,(4.1405)+(0.0058)Gln+(-0.1064)His+(-0.0064)Ala+(-0.0299)Val+(-0.0044)Lys+(0.1305)Ile;0.825,0.859,0.829,0.836,0.834,0.793,0.824,0.822,(3.3584)+(-0.1272)Asn+(0.0051)Gln+(0.0160)Thr+(-0.0015)Orn+(0.0745)Phe+(-0.1667)Trp;0.825,0.851,0.804,0.801,0.823,0.845,0.738,0.802,(4.6388)+(0.0386)Ser+(-0.0702)Cit+(0.0018)Arg+(0.0088)Val+(-0.1246)Met+(-0.1455)Trp;0.825,0.857,0.813,0.800,0.807,0.836,0.846,0.822,(0.8699)+(0.0127)Gln+(-0.1571)His+(-0.0012)Ala+(-0.2377)Met+(0.0078)Leu+(0.1191)Phe;0.825,0.852,0.789,0.786,0.754,0.828,0.843,0.803,(5.0140)+(0.0033)Gln+(-0.0245)Arg+(0.0002)Pro+(-0.0419)Val+(0.1536)Ile+(-0.1343)Trp;0.825,0.856,0.814,0.817,0.820,0.857,0.762,0.814,(4.3062)+(0.0404)Ser+(-0.0675)Asn+(0.0239)Tyr+(-0.1364)Met+(0.0214)Orn+(-0.1373)Trp;0.825,0.853,0.787,0.785,0.797,0.834,0.740,0.789,(3.3950)+(0.0346)Ser+(0.0158)Thr+(-0.0023)Ala+(-0.2149)Met+(0.0255)Leu+(-0.1515)Trp;0.825,0.851,0.806,0.798,0.831,0.812,0.769,0.803,(4.9062)+(-0.1191)Cit+(-0.0075)Arg+(-0.0059)Val+(0.0505)Orn+(0.0841)Phe+(-0.1691)Trp;0.825,0.864,0.800,0.789,0.807,0.803,0.815,0.804,

(6.2681)+(-0.0875)His+(-0.0541)Cit+(0.0068)Pro+(-0.0204)Tyr+(0.1197)Phe+(-0.1224)Trp;0.825,0.855,0.780,0.767,0.732,0.876,0.842,0.805,(0.1698)+(0.0488)Ser+(-0.0062)Gly+(-0.0079)Ala+(-0.2548)Met+(0.1864)Ile+(-0.0761)Leu;0.825,0.849,0.717,0.694,0.708,0.801,0.736,0.735,(0.8531)+(0.0425)Ser+(-0.1598)His+(-0.0486)Tyr+(0.0162)Orn+(0.0028)Leu+(0.1097)Phe;0.825,0.846,0.720,0.679,0

.718,0.817,0.761,0.744,(1.2120)+(0.0477)Ser+(-0.1564)His+(-0.0153)Val+(-0.0146)Lys+(0.0333)Leu+(0.0939)Phe;0.825,0.853,0.801,0.800,0.780,0.822,0.836,0.809,(6.2577)+(-0.0423)Asn+(-0.0013)Pro+(-0.0118)Tyr+(0.1422)Ile+(-0.0628)Leu+(-0.1290)Trp;0.825,0.852,0.772,0.767,0.735,0.812,0.832,0.787,(5.1741)+(-0.0183)Tyr+(-0.0345)Val+(0.0143)Orn+(0.1624)Ile+(-0.0213)Leu+(-0.1287)Trp;0.825,0.851,0.769,0.766,0.730,0.811,0.828,0.784,(5.1794)+(0.0072)Thr+(-0.0187)Tyr+(-0.0345)Val+(0.1631)Ile+(-0.0198)Leu+(-0.1332)Trp;0.825,0.850,0.806,0.784,0.828,0.832,0.799,0.811,(6.7253)+(-0.0177)Asn+(-0.0977)Cit+(-0.0911)Met+(0.0407)Orn+(0.0554)Ile+(-0.1557)Trp;0.825,0.850,0.768,0.764,0.730,0.810,0.830,0.784,(5.1503)+(0.0085)Thr+(-0.0016)Pro+(-0.0177)Tyr+(-0.0405)Val+(0.1505)Ile+(-0.1372)Trp;0.825,0.856,0.793,0.767,0.796,0.822,0.838,0.806,(7.3205)+(0.0269)Asn+(-0.0843)His+(0.0030)Pro+(-0.1156)Met+(0.0718)Ile+(-0.1129)Trp;0.825,0.856,0.780,0.789,0.770,0.764,0.791,0.779,(3.2776)+(0.0151)Thr+(-0.0427)Tyr+(-0.0272)Val+(0.0423)Leu+(0.0981)Phe+(-0.1718)Trp;0.825,0.852,0.788,0.777,0.736,0.861,0.873,0.812,(4.6219)+(0.0023)Gly+(-0.0074)Ala+(0.0090)Pro+(-0.0528)Val+(-0.2560)Met+(0.1902)Ile;0.825,0.853,0.790,0.784,0.798,0.855,0.743,0.795,(6.2644)+(0.0391)Ser+(-0.0805)His+(0.0003)Ala+(-0.0330)Cit+(-0.0033)Arg+(-0.0989)Trp;0.825,0.849,0.789,0.779,0.803,0.822,0.759,0.791,(8.3882)+(-0.0986)His+(0.0230)Thr+(-0.0134)Arg+(0.0050)Pro+(0.0055)Val+(-0.1159)Trp;0.825,0.860,0.817,0.819,0.807,0.802,0.842,0.818,(4.4891)+(-0.0859)Asn+(0.0032)Gly+(-

0.0310)Val+(0.0496)Leu+(0.0926)Phe+(-0.1491)Trp;0.825,0.857,0.828,0.805,0.832,0.851,0.866,0.839,(6.6879)+(-0.0071)Ala+(-0.0728)Cit+(0.0280)Tyr+(-0.1045)Met+(0.0813)Ile+(-0.1542)Trp;0.825,0.852,0.737,0.716,0.728,0.801,0.766,0.753,(1.3887)+(0.0536)Ser+(-0.0047)Gly+(-0.1473)His+(-0.0423)Tyr+(-0.0087)Lys+(0.1212)Phe;0.825,0.847,0.732,0.697,0.715,0.832,0.784,0.757,(1.6653)+(0.0315)Ser+(0.0039)Gln+(-0.1485)His+(-0.0032)Pro+(0.1016)Ile+(-0.0327)Leu;0.825,0.857,0.799,0.794,0.799,0.816,0.801,0.803,(3.7986)+(0.0045)Gln+(0.0234)Thr+(-0.2643)Met+(-0.0079)Orn+(0.0686)Ile+(-0.1581)Trp;0.825,0.853,0.791,0.779,0.742,0.864,0.873,0.814,(4.2946)+(-0.0057)Ala+(-0.0563)Val+(-0.2681)Met+(0.0242)Orn+(0.0042)Lys+(0.1959)Ile;0.825,0.853,0.792,0.773,0.817,0.834,0.762,0.797,(5.7113)+(0.0049)Gly+(-0.1044)Cit+(-0.1185)Met+(0.0379)Orn+(0.0617)Ile+(-0.1578)Trp;0.825,0.852,0.802,0.796,0.747,0.867,0.885,0.824,(5.2503)+(-0.0419)Asn+(-0.0052)Ala+(-0.0570)Val+(-0.2344)Met+(0.0106)Lys+(0.1984)Ile;0.825,0.852,0.793,0.787,0.806,0.838,0.753,0.796,(8.5138)+(-0.0948)His+(0.0217)Thr+(-0.0019)Ala+(-0.0161)Arg+(0.0334)Orn+(-0.1060)Trp;0.825,0.853,0.785,0.767,0.796,0.819,0.786,0.792,(8.2486)+(-0.0308)Asn+(-0.1058)His+(0.0251)Thr+(-0.0032)Tyr+(0.0244)Leu+(-0.1195)Trp;0.825,0.851,0.798,0.797,0.804,0.831,0.765,0.799,(8.4756)+(-0.0486)Asn+(0.0014)Gly+(-0.0909)His+(0.0218)Thr+(0.0080)Lys+(-0.1085)Trp;0.825,0.852,0.770,0.756,0.733,0.829,0.841,0.790,(2.3202)+(0.0086)Gln+(-0.1344)His+(-0.0304)Arg+(-0.0351)Val+(0.1131)Ile+(0.0732)Phe;0.825,0.857,0.803,0.783,0.816,0.814,0.826,0.810,(6.3486)+(-0.0952)His+(-0.0523)Cit+(0.0015)Lys+(0.0106)Leu+(0.1042)Phe+(-0.1326)Trp;0.825,0.855,0.822,0.820,0.833,0.802,0.821,0.819,(5.7210)+(-0.0561)Asn+(-0.0814)Cit+(0.0070)Pro+(-0.0053)Val+(0.0978)Phe+(-0.1549)Trp;0.825,0.854,0.803,0.789,0.812,0.796,0.823,0.805,(2.7429)+(0.0048)Gln+(-0.0977)Cit+(-0.0097)Arg+(0.0506)Ile+(0.0641)Phe+(-0.1943)Trp;0.825,0.852,0.812,0.807,0.826,

0.843,0.771,0.812,(4.7991)+(0.0463)Ser+(-0.0054)Gly+(-0.0618)Cit+(0.0084)Val+(-0.1253)Met+(-0.1439)Trp;0.825,0.853,0.820,0.817,0.819,0.843,0.814,0.823,(5.8153)+(0.0100)Gln+(-0.1012)His+(-0.0429)Cit+(0.0079)Pro+(0.0083)Tyr+(-0.1147)Trp;0.825,0.861,0.823,0.831,0.823,0.797,0.821,0.818,(4.8887)+(-0.0848)Asn+(0.0049)Pro+(-0.0115)Val+(0.0187)Orn+(0.0844)Phe+(-0.1379)Trp;0.825,0.859,0.848,0.861,0.850,0.803,0.845,0.840,(1.9470)+(-0.0484)Asn+(0.0074)Gln+(-0.2166)Met+(0.0036)Lys+(0.1079)Phe+(-0.1477)Trp;0.825,0.858,0.812,0.800,0.806,0.835,0.840,0.820,(0.7729)+(0.0124)Gln+(-0.1579)His+(-0.0008)Ala+(-0.2410)Met+(0.0039)Lys+(0.1259)Phe;0.825,0.857,0.794,0.790,0.790,0.837,0.782,0.800,(3.4682)+(0.0420)Ser+(-0.0038)Arg+(-0.0259)Val+(-0.1922)Met+(0.0651)Leu+(-0.1344)Trp;0.825,0.853,0.799,0.791,0.758,0.875,0.850,0.819,(3.1223)+(0.0025)Gly+(0.0050)Gln+(-0.0562)Cit+(-0.0513)Val+(-0.2969)Met+(0.1864)Ile;0.825,0.853,0.775,0.754,0.797,0.827,0.748,0.781,(7.6782)+(0.0036)Gly+(-0.1016)His+(0.0222)Thr+(-0.0501)Cit+(0.0283)Leu+(-0.1298)Trp;0.825,0.861,0.775,0.775,0.773,0.776,0.777,0.775,(0.2546)+(0.0325)Ser+(-0.0071)Thr+(0.0003)Orn+(-0.0009)Leu+(0.0752)Phe+(-0.1737)Trp;0.825,0.855,0.776,0.753,0.798,0.819,0.760,0.783,(8.0049)+(-0.1135)His+(0.0228)Thr+(-0.0149)Arg+(0.0254)Orn+(0.0214)Leu+(-0.1229)Trp;0.825,0.854,0.788,0.778,0.799,0.828,0.760,0.791,(7.8105)+(0.0002)Gly+(-0.1001)His+(0.0166)Thr+(-0.0026)Tyr+(0.0293)Orn+(-0.1061)Trp;0.825,0.853,0.803,0.794,0.755,0.874,0.879,0.826,(5.5458)+(-0.0066)Ala+(-0.0506)Cit+(-0.0428)Val+(-0.1951)Met+(0.2113)Ile+(-0.0241)Leu;0.825,0.850,0.832,0.833,0.849,0.854,0.782,0.829,(6.2456)+(-0.0833)Asn+(0.0070)Gln+(-0.1111)Cit+(-0.0030)Tyr+(0.0521)Orn+(-0.1487)Trp;0.825,0.850,0.833,0.839,0.826,0.848,0.818,0.833,(6.0062)+(-0.0502)Asn+(0.0122)Gln+(-0.1079)His+(-0.0162)Arg+(0.0117)Lys+(-0.1021)Trp;0.825,0.849,0.797,0.788,0.754,0.866,0.864,0.818,(4.1007)+(-0.0768)Asn+(0.0046)Gln+(-0.0575)Val+(-0.2485)Met+

(0.0262)Orn+(0.1862)Ile;0.825,0.849,0.772,0.763,0.736,0.813,0.839,0.788,(4.8224)+(0.0001)Gln+(0.0063)Thr+(-0.0027)Pro+(-0.0413)Val+(0.1507)Ile+(-0.1428)Trp;0.825,0.859,0.838,0.849,0.826,0.830,0.842,0.837,(3.5522)+(-0.1197)Asn+(0.0052)Gln+(0.0195)Thr+(-0.0064)Ala+(0.0857)Phe+(-0.1603)Trp;0.825,0.858,0.777,0.764,0.782,0.769,0.804,0.780,(1.1763)+(0.0413)Ser+(-0.0078)Gly+(-0.0014)Gln+(0.0002)Orn+(0.0684)Phe+(-0.1747)Trp;0.825,0.854,0.804,0.815,0.812,0.845,0.730,0.800,(5.2333)+(0.0343)Ser+(-0.0673)Asn+(0.0159)Thr+(0.0028)Val+(-0.1296)Met+(-0.1397)Trp;0.825,0.852,0.742,0.713,0.748,0.816,0.756,0.758,(1.4231)+(0.0569)Ser+(-0.1058)Asn+(0.0001)Gly+(-0.1409)His+(-0.0359)Cit+(0.1130)Phe;0.825,0.850,0.726,0.707,0.718,0.803,0.739,0.742,(1.1547)+(0.0470)Ser+(-0.1523)His+(-0.0387)Tyr+(0.0007)Val+(-0.0085)Lys+(0.1204)Phe;0.825,0.849,0.739,0.721,0.721,0.808,0.774,0.756,(1.2546)+(0.0506)Ser+(-0.0043)Gly+(-0.1494)His+(-0.0025)Ala+(-0.0427)Tyr+(0.1172)Phe;0.825,0.848,0.733,0.696,0.730,0.812,0.784,0.755,(0.1071)+(0.0422)Ser+(-0.0039)Gly+(0.0044)Gln+(-0.1800)His+(0.0063)Orn+(0.0822)Phe;0.825,0.856,0.803,0.801,0.805,0.835,0.783,0.806,(6.4115)+(0.0340)Thr+(-0.0016)Ala+(-0.0352)Val+(-0.2359)Met+(0.0764)Leu+(-0.1404)Trp;0.825,0.855,0.778,0.752,0.780,0.821,0.810,0.791,(6.9866)+(0.0045)Gly+(-0.0987)His+(-0.0049)Arg+(0.0049)Tyr+(0.0675)Ile+(-0.1191)Trp;0.825,0.849,0.804,0.800,0.748,0.876,0.882,0.826,(3.4236)+(0.0039)Gln+(-0.0057)Ala+(-0.0461)Val+(-0.2631)Met+(0.2087)Ile+(-0.0204)Leu;0.825,0.854,0.797,0.785,0.807,0.823,0.788,0.801,(7.6985)+(-0.0881)His+(0.0083)Pro+(-0.0961)Met+(0.0289)Orn+(0.0118)Lys+(-0.1058)Trp;0.825,0.849,0.785,0.779,0.792,0.817,0.764,0.788,(7.6788)+(0.0008)Gly+(-0.0982)His+(0.0162)Thr+(0.0058)Pro+(0.0049)Lys+(-0.1118)Trp;0.825,0.850,0.786,0.774,0.797,0.818,0.770,0.790,(7.9411)+(-0.1012)His+(0.0193)Thr+(0.0046)Pro+(-0.0048)Tyr+(0.0062)Val+(-0.1147)Trp;0.825,0.846,0.786,0.771,0.745,0.858,0.857,0.808,(3.5694)+(0

.0006)Gly+(0.0070)Gln+(-0.1260)His+(-0.0070)Ala+(0.1158)Ile+(-0.0418)Leu;0.825,0.859,0.806,0.792,0.803,0.827,0.836,0.814,(0.6102)+(0.0124)Gln+(-0.1570)His+(0.0053)Pro+(-0.2638)Met+(0.0033)Lys+(0.1227)Phe;0.825,0.855,0.787,0.773,0.797,0.853,0.755,0.795,(5.6809)+(0.0390)Ser+(-0.0910)His+(-0.0391)Cit+(0.0203)Tyr+(0.0045)Lys+(-0.1129)Trp;0.825,0.852,0.810,0.815,0.823,0.853,0.740,0.808,(5.0726)+(0.0356)Ser+(-0.0002)Ala+(-0.0600)Cit+(-0.1173)Met+(0.0051)Lys+(-0.1359)Trp;0.825,0.849,0.772,0.762,0.738,0.819,0.836,0.788,(5.2776)+(0.0109)Thr+(-0.0030)Pro+(-0.0408)Val+(-0.0084)Lys+(0.1553)Ile+(-0.1372)Trp;0.825,0.849,0.780,0.774,0.741,0.819,0.847,0.795,(4.6900)+(0.0012)Gln+(-0.0027)Pro+(-0.0331)Val+(0.1670)Ile+(-0.0242)Leu+(-0.1370)Trp;0.825,0.849,0.775,0.766,0.740,0.814,0.848,0.792,(5.0855)+(-0.0017)Gly+(0.0078)Thr+(-0.0026)Pro+(-0.0415)Val+(0.1506)Ile+(-0.1424)Trp;0.825,0.849,0.760,0.727,0.767,0.816,0.792,0.775,(2.7038)+(0.0296)Asn+(0.0075)Gly+(-0.1383)His+(-0.2808)Met+(0.0551)Ile+(0.1094)Phe;0.825,0.850,0.800,0.783,0.819,0.824,0.787,0.803,(4.5997)+(0.0042)Gln+(-0.1112)Cit+(-0.0096)Arg+(0.0356)Orn+(0.0521)Ile+(-0.1841)Trp;0.825,0.848,0.725,0.675,0.725,0.826,0.784,0.753,(2.7698)+(0.0498)Ser+(-0.0045)Gly+(-0.1420)His+(0.0014)Thr+(-0.0135)Lys+(0.0639)Ile;0.825,0.846,0.735,0.689,0.730,0.828,0.801,0.762,(1.4482)+(0.0401)Ser+(-0.0052)Gly+(0.0049)Gln+(-0.1671)His+(0.0023)Orn+(0.0495)Ile;0.825,0.860,0.769,0.767,0.770,0.774,0.768,0.770,(0.5270)+(0.0340)Ser+(-0.0012)Gln+(-0.0065)Thr+(0.0010)Orn+(0.0751)Phe+(-0.1725)Trp;0.825,0.854,0.795,0.786,0.802,0.837,0.773,0.799,(7.9835)+(-0.0974)His+(0.0171)Thr+(-0.0021)Ala+(0.0012)Tyr+(0.0300)Orn+(-0.1057)Trp;0.824,0.855,0.820,0.811,0.814,0.815,0.859,0.825,(3.8023)+(-0.0015)Asn+(-0.0057)Ala+(-0.1969)Met+(0.0608)Ile+(0.0871)Phe+(-0.1485)Trp;0.824,0.854,0.804,0.799,0.805,0.830,0.798,0.808,(4.0681)+(0.0538)Ser+(-0.0572)Asn+(-0.0067)Gly+(-0.1321)Met+(0.0224)Leu+(-0.1417)Trp;0.824,0.

861,0.848,0.862,0.847,0.807,0.841,0.839,(1.6983)+(0.0064)Gln+(0.0056)Tyr+(-0.0063)Val+(-0.2474)Met+(0.1214)Phe+(-0.1429)Trp;0.824,0.857,0.762,0.734,0.766,0.846,0.770,0.779,(1.5787)+(0.0416)Ser+(0.0072)Gln+(-0.1478)His+(0.0090)Pro+(-0.2177)Met+(0.0259)Leu;0.824,0.851,0.771,0.761,0.737,0.815,0.839,0.788,(4.7234)+(0.0047)Thr+(-0.0034)Pro+(-0.0420)Val+(0.0103)Orn+(0.1502)Ile+(-0.1420)Trp;0.824,0.850,0.719,0.673,0.723,0.838,0.746,0.745,(2.4021)+(0.0367)Ser+(-0.1263)His+(-0.0679)Cit+(0.0296)Orn+(0.1077)Ile+(-0.0419)Leu;0.824,0.850,0.828,0.835,0.818,0.854,0.811,0.830,(5.8266)+(0.0006)Gly+(0.0107)Gln+(-0.1026)His+(0.0006)Ala+(-0.0621)Met+(-0.0955)Trp;0.824,0.854,0.812,0.818,0.822,0.849,0.751,0.810,(5.6383)+(0.0416)Ser+(-0.0088)Gly+(0.0232)Thr+(-0.0156)Arg+(-0.1800)Met+(-0.1403)Trp;0.824,0.856,0.750,0.730,0.751,0.756,0.795,0.758,(0.0147)+(0.0303)Ser+(-0.0024)Pro+(-0.0144)Orn+(0.0487)Ile+(0.0547)Phe+(-0.1931)Trp;0.824,0.850,0.770,0.768,0.712,0.881,0.817,0.794,(1.4824)+(0.0281)Ser+(-0.0120)A

la+(-0.0932)Cit+(-0.0260)Tyr+(0.1883)Ile+(-0.0816)Leu;0.824,0.853,0.788,0.770,0.757,0.847,0.856,0.808,(6.1838)+(-0.0676)His+(-0.0048)Arg+(-0.0459)Val+(-0.2395)Met+(0.0136)Lys+(0.1707)Ile;0.824,0.853,0.789,0.773,0.791,0.844,0.786,0.799,(5.6041)+(0.0430)Ser+(-0.0045)Gly+(-0.0976)His+(0.0138)Tyr+(0.0039)Lys+(-0.1063)Trp;0.824,0.853,0.793,0.775,0.754,0.858,0.876,0.816,(6.4110)+(-0.0581)His+(-0.0040)Ala+(0.0015)Arg+(-0.0418)Val+(-0.1826)Met+(0.1732)Ile;0.824,0.858,0.812,0.798,0.806,0.840,0.838,0.821,(0.9975)+(0.0120)Gln+(-0.1552)His+(-0.0010)Ala+(-0.2287)Met+(0.0111)Orn+(0.1214)Phe;0.824,0.848,0.812,0.803,0.838,0.836,0.765,0.811,(7.8560)+(-0.0378)Asn+(-0.1043)Cit+(0.0073)Pro+(-0.0557)Met+(0.0544)Orn+(-0.1433)Trp;0.824,0.845,0.732,0.696,0.732,0.813,0.769,0.753,(1.3545)+(0.0523)Ser+(-0.0035)Gly+(-0.1575)His+(-0.0007)Val+(-0.0127)Lys+(0.1029)Phe;0.824,0.857,0.798,0.790,0.791,0.832,0.811,0.806

,(5.4353)+(0.0253)Thr+(-0.0057)Ala+(-0.2101)Met+(0.0001)Orn+(0.0750)Ile+(-0.1496)Trp;0.824,0.856,0.831,0.850,0.825,0.866,0.770,0.828,(4.0644)+(0.0359)Ser+(-0.0770)Asn+(0.0055)Gln+(-0.0096)Arg+(-0.0875)Met+(-0.1301)Trp;0.824,0.856,0.817,0.805,0.815,0.843,0.833,0.824,(0.7204)+(0.0135)Gln+(-0.1518)His+(-0.0398)Cit+(-0.2399)Met+(0.0029)Lys+(0.1289)Phe;0.824,0.847,0.728,0.678,0.727,0.827,0.787,0.755,(2.7648)+(0.0503)Ser+(-0.0045)Gly+(-0.1412)His+(-0.0014)Pro+(-0.0131)Lys+(0.0661)Ile;0.824,0.854,0.797,0.779,0.758,0.863,0.877,0.819,(6.7120)+(-0.0507)His+(-0.0049)Ala+(-0.0344)Cit+(-0.0417)Val+(-0.1636)Met+(0.1759)Ile;0.824,0.850,0.781,0.759,0.750,0.847,0.858,0.804,(2.1344)+(0.0082)Gln+(-0.1609)His+(-0.0072)Ala+(0.0008)Pro+(0.0423)Ile+(0.0532)Phe;0.824,0.849,0.823,0.824,0.815,0.844,0.822,0.826,(5.6988)+(0.0094)Gln+(-0.1151)His+(-0.0018)Ala+(0.0161)Tyr+(0.0049)Lys+(-0.1086)Trp;0.824,0.850,0.737,0.701,0.728,0.827,0.789,0.761,(1.0342)+(0.0469)Ser+(-0.0030)Gly+(-0.1603)His+(-0.0052)Ala+(0.0144)Orn+(0.0928)Phe;0.824,0.845,0.760,0.736,0.718,0.841,0.856,0.788,(5.1339)+(0.0011)Gly+(-0.0952)His+(-0.0069)Ala+(-0.0357)Val+(0.0261)Orn+(0.1372)Ile;0.824,0.845,0.763,0.739,0.720,0.841,0.860,0.790,(5.2805)+(-0.0920)His+(-0.0069)Ala+(-0.0335)Val+(0.0262)Orn+(0.1443)Ile+(-0.0092)Leu;0.824,0.852,0.779,0.769,0.751,0.824,0.830,0.794,(5.8102)+(-0.0264)Arg+(-0.0454)Val+(0.0260)Orn+(0.0007)Lys+(0.1568)Ile+(-0.1288)Trp;0.824,0.851,0.734,0.699,0.725,0.831,0.775,0.757,(1.9828)+(0.0365)Ser+(0.0048)Gln+(-0.1503)His+(-0.0159)Tyr+(-0.0117)Lys+(0.0640)Ile;0.824,0.850,0.729,0.699,0.710,0.825,0.776,0.752,(0.8527)+(0.0449)Ser+(-0.1570)His+(-0.0066)Ala+(0.0073)Pro+(-0.0017)Val+(0.0963)Phe;0.824,0.850,0.780,0.774,0.743,0.817,0.848,0.795,(4.7832)+(0.0014)Gln+(-0.0337)Val+(-0.0037)Lys+(0.1621)Ile+(-0.0205)Leu+(-0.1348)Trp;0.824,0.849,0.780,0.777,0.740,0.812,0.852,0.795,(5.1211)+(-0.0015)Gly+(0.0014)Gln+(-0.0149)Tyr+(-0.0395)Val+(0.1465)Ile+(-0.13

44)Trp;0.824,0.855,0.802,0.795,0.802,0.816,0.808,0.805,(3.9585)+(-0.0018)Gly+(0.0045)Gln+(0.0234)Thr+(-0.2617)Met+(0.0649)Ile+(-0.1588)Trp;0.824,0.852,0.799,0.808,0.795,0.832,0.759,0.799,(3.6694)+(0.0368)Ser+(-0.1285)Asn+(0.0029)Gln+(0.0060)Pro+(0.0138)Orn+(-0.1385)Trp;0.824,0.849,0.777,0.758,0.789,0.813,0.776,0.784,(7.8549)+(-0.1121)His+(0.0228)Thr+(-0.0034)Tyr+(-0.0013)Lys+(0.0261)Leu+(-0.1216)Trp;0.824,0.848,0.787,0.783,0.792,0.822,0.763,0.790,(7.9831)+(0.0005)Gly+(-0.0942)His+(0.0184)Thr+(0.0061)Pro+(-0.0012)Tyr+(-0.1087)Trp;0.824,0.852,0.797,0.783,0.803,0.828,0.800,0.804,(8.0634)+(-0.0907)His+(-0.0044)Ala+(0.0089)Pro+(0.0042)Val+(0.0316)Orn+(-0.1047)Trp;0.824,0.852,0.799,0.787,0.830,0.801,0.765,0.795,(4.7881)+(-0.1221)Cit+(-0.0070)Arg+(0.0029)Pro+(0.0456)Orn+(0.0735)Phe+(-0.1796)Trp;0.824,0.861,0.851,0.866,0.843,0.816,0.855,0.845,(3.2955)+(-0.1079)Asn+(0.0060)Gln+(-0.0091)Val+(0.0032)Lys+(0.0884)Phe+(-0.1481)Trp;0.824,0.851,0.785,0.773,0.816,0.798,0.740,0.782,(3.9765)+(0.0033)Gly+(-0.1313)Cit+(0.0028)Pro+(0.0437)Orn+(0.0753)Phe+(-0.1828)Trp;0.824,0.851,0.819,0.821,0.823,0.858,0.779,0.820,(6.1463)+(0.0467)Ser+(-0.0781)Asn+(-0.0049)Gly+(-0.0006)Ala+(-0.0566)Cit+(-0.1314)Trp;0.824,0.856,0.786,0.785,0.782,0.764,0.816,0.787,(3.1281)+(0.0080)Thr+(0.0026)Pro+(-0.0286)Val+(0.0424)Leu+(0.0749)Phe+(-0.1793)Trp;0.824,0.856,0.803,0.791,0.800,0.833,0.821,0.811,(5.2957)+(0.0246)Thr+(-0.0061)Ala+(0.0156)Tyr+(-0.2274)Met+(0.0745)Ile+(-0.1531)Trp;0.824,0.852,0.788,0.763,0.788,0.818,0.833,0.801,(7.5138)+(0.0050)Asn+(-0.0928)His+(-0.0028)Arg+(0.0008)Pro+(0.0646)Ile+(-0.1202)Trp;0.824,0.855,0.740,0.715,0.747,0.762,0.776,0.750,(0.5336)+(0.0322)Ser+(-0.0023)Gln+(-0.0027)Pro+(0.0456)Ile+(0.0495)Phe+(-0.1868)Trp;0.824,0.854,0.816,0.823,0.813,0.844,0.787,0.817,(3.5368)+(0.0430)Ser+(-0.0084)Gly+(0.0026)Gln+(-0.1640)Met+(0.0221)Orn+(-0.1385)Trp;0.824,0.848,0.741,0.708,0.739,0.839,0.761,0.762,(1.3499)+(0.0373)Ser+(0.0071)

Gln+(-0.1636)His+(-0.0266)Arg+(-0.0011)Pro+(0.0569)Ile;0.824,0.858,0.807,0.791,0.818,0.814,0.822,0.811,(6.2311)+(-0.0937)His+(-0.0512)Cit+(0.0006)Arg+(0.0037)Lys+(0.1123)Phe+(-0.1282)Trp;0.824,0.851,0.798,0.785,0.828,0.802,0.768,0.796,(4.5652)+(-0.1260)Cit+(0.0028)Pro+(0.0446)Orn+(-0.0016)Leu+(0.0740)Phe+(-0.1806)Trp;0.824,0.850,0.815,0.821,0.808,0.837,0.801,0.817,(5.8524)+(0.0004)Gly+(0.0110)Gln+(-0.1116)His+(-0.0162)Arg+(0.0081)Pro+(-0.1029)Trp;0.824,0.858,0.801,0.795,0.801,0.801,0.817,0.803,(6.1306)+(-0.1071)His+(-0.0082)Arg+(-0.0195)Tyr+(0.0087)Lys+(0.1102)Phe+(-0.1149)Trp;0.824,0.852,0.754,0.739,0.711,0.802,0.845,0.775,(4.1576)+(-0.1040)His+(-0.0447)Tyr+(-0.0353)Val+(-0.0024)Lys+(0.1217)Ile+(0.0883)Phe;0.824,0.850,0.792,0.768,0.816,0.826,0.785,0.799,(6.6547)+(-0.1145)Cit+(-0.0079)Tyr+(0.0482)Orn+(-0.0112)Lys+(0.0585)Ile+(-0.1625)Trp;0.824,0.858,0.812,0.791,0.819,0.850,0.822,0.821,(0.9108)+(0.0126)Gln+(-0.1484)His+(-0.0593)Cit+(-0.2289)Met+(0.0262)Orn+(0.1201)Phe;0.824,0.855,0.820,0.815,0.839,0.867,0.761,0.820,(4.7762)+(0.0394)Ser+(-0.0622)Cit+(-0.0010)Arg+(0.0385)Tyr+(-0.1648)Met+(-0.1434)Trp;0.824,0.855,0.800,0.789,0.790,0.835,0.825,0.810,(6.3593)+(-0.0695)Cit+(-0.0042)Arg+(-0.0001)Pro+(0.1461)Ile+(-0.0593)Leu+(-0.1464)Trp;0.824,0.849,0.782,0.773,0.744,0.818,0.857,0.798,(4.9782)+(-0.0010)Gly+(0.0016)Gln+(-0.0396)Val+(-0.0050)Lys+(0.1476)Ile+(-0.1360)Trp;0.824,0.846,0.730,0.692,0.732,0.814,0.767,0.751,(1.4740)+(0.0510)Ser+(-0.0037)Gly+(-0.1604)His+(0.0045)Thr+(-0.0144)Lys+(0.1015)Phe;0.824,0.859,0.829,0.838,0.831,0.788,0.828,0.821,(1.5615)+(0.0060)Gln+(0.0071)Pro+(-0.0015)Tyr+(-0.2637)Met+(0.1105)Phe+(-0.1495)Trp;0.824,0.855,0.825,0.836,0.832,0.865,0.755,0.822,(4.2148)+(0.0317)Ser+(0.0045)Gln+(-0.0629)Cit+(-0.0023)Arg+(-0.1217)Met+(-0.1364)Trp;0.824,0.845,0.736,0.701,0.712,0.837,0.805,0.764,(3.1592)+(0.0469)Ser+(-0.0052)Gly+(-0.1069)His+(-0.0235)Arg+(-0.0337)Val+(0.1351)Ile;0.824,0.851,0.790,0.

796,0.796,0.833,0.729,0.788,(4.4460)+(0.0408)Ser+(-0.1028)Asn+(-0.014
7)Arg+(0.0069)Pro+(0.0192)Orn+(-0.1345)Trp;0.824,0.849,0.795,0.787,0.
742,0.868,0.877,0.818,(4.1773)+(0.0023)Gly+(-0.0057)Ala+(-0.0553)Val+
(-0.2755)Met+(0.0080)Lys+(0.1996)Ile;0.824,0.855,0.807,0.805,0.790,0.
831,0.830,0.814,(6.1090)+(-0.0140)Arg+(-0.1591)Met+(0.0133)Lys+(0.161
7)Ile+(-0.0731)Leu+(-0.1303)Trp;0.824,0.860,0.820,0.813,0.838,0.797,0
.815,0.816,(4.4349)+(-0.0833)Cit+(0.0102)Arg+(0.0087)Pro+(-0.1927)Met
+(0.1189)Phe+(-0.1544)Trp;0.824,0.846,0.785,0.769,0.746,0.857,0.857,0
.807,(3.6309)+(0.0069)Gln+(-0.1274)His+(0.0024)Thr+(-0.0071)Ala+(0.11
43)Ile+(-0.0410)Leu;0.824,0.856,0.800,0.790,0.789,0.835,0.823,0.809,(
6.4279)+(-0.0688)Cit+(-0.0035)Arg+(-0.0051)Tyr+(0.1464)Ile+(-0.0591)L
eu+(-0.1440)Trp;0.824,0.854,0.803,0.791,0.831,0.810,0.769,0.800,(4.88
30)+(0.0211)Thr+(-0.1038)Cit+(-0.0150)Lys+(0.0095)Leu+(0.0951)Phe+(-0
.1865)Trp;0.824,0.852,0.797,0.793,0.779,0.846,0.807,0.806,(4.6113)+(0
.0427)Ser+(-0.1147)Asn+(-0.0024)Ala+(-0.0279)Val+(0.0624)Leu+(-0.1289
)Trp;0.824,0.850,0.802,0.783,0.823,0.828,0.792,0.807,(6.7799)+(-0.044
3)Asn+(-0.1076)Cit+(0.0008)Pro+(0.0429)Orn+(0.0479)Ile+(-0.1662)Trp;0
.824,0.848,0.819,0.824,0.807,0.841,0.812,0.821,(5.7337)+(0.0003)Gly+(
0.0092)Gln+(-0.1113)His+(-0.0010)Ala+(0.0061)Lys+(-0.1037)Trp;0.824,0
.858,0.820,0.827,0.818,0.805,0.820,0.817,(3.4850)+(0.0025)Gly+(-0.005
2)Ala+(0.0112)Pro+(-0.2070)Met+(0.1136)Phe+(-0.1396)Trp;0.824,0.857,0
.805,0.800,0.801,0.836,0.801,0.810,(0.5236)+(0.0047)Gly+(0.0128)Gln+(
-0.1574)His+(-0.0131)Arg+(-0.2339)Met+(0.1338)Phe;0.824,0.845,0.728,0
.689,0.729,0.809,0.767,0.749,(1.2783)+(0.0528)Ser+(-0.0036)Gly+(-0.15
86)His+(0.0026)Pro+(-0.0136)Lys+(0.0996)Phe;0.824,0.861,0.852,0.864,0
.852,0.812,0.847,0.844,(2.0112)+(-0.0454)Asn+(0.0076)Gln+(0.0016)Tyr+
(-0.2134)Met+(0.1094)Phe+(-0.1459)Trp;0.824,0.859,0.789,0.789,0.773,0
.810,0.810,0.796,(0.7016)+(0.0300)Ser+(-0.0073)Ala+(0.0012)Orn+(0.005

4)Leu+(0.0804)Phe+(-0.1690)Trp;0.824,0.852,0.789,0.786,0.753,0.828,0.842,0.802,(5.0730)+(0.0034)Gln+(-0.0238)Arg+(-0.0045)Tyr+(-0.0415)Val+(0.1536)Ile+(-0.1326)Trp;0.824,0.857,0.844,0.868,0.827,0.804,0.843,0.836,(3.1507)+(-0.0932)Asn+(0.0065)Gln+(-0.0272)Tyr+(-0.0074)Val+(0.1020)Phe+(-0.1405)Trp;0.824,0.853,0.797,0.789,0.809,0.837,0.762,0.799,(8.4189)+(-0.0809)His+(0.0206)Thr+(-0.0424)Cit+(0.0068)Pro+(-0.0007)Tyr+(-0.1161)Trp;0.824,0.851,0.797,0.782,0.748,0.874,0.883,0.822,(4.0224)+(0.0036)Gly+(-0.0061)Ala+(0.0271)Tyr+(-0.0552)Val+(-0.2926)Met+(0.2026)Ile;0.824,0.849,0.791,0.781,0.824,0.803,0.738,0.787,(4.2337)+(0.0034)Gly+(-0.1266)Cit+(-0.0073)Arg+(0.0465)Orn+(0.0789)Phe+(-0.1788)Trp;0.824,0.857,0.823,0.817,0.843,0.797,0.814,0.818,(4.7440)+(-0.0768)Cit+(0.0085)Pro+(-0.1792)Met+(0.0028)Leu+(0.1153)Phe+(-0.1545)Trp;0.824,0.855,0.804,0.800,0.802,0.853,0.782,0.809,(6.6539)+(0.0487)Ser+(-0.0416)Asn+(-0.0051)Gly+(-0.0768)His+(-0.0052)Arg+(-0.0932)Trp;0.824,0.856,0.815,0.813,0.838,0.809,0.773,0.808,(3.7946)+(0.0061)Gly+(-0.0862)Cit+(-0.1780)Met+(0.0086)Leu+(0.1236)Phe+(-0.1556)Trp;0.824,0.851,0.743,0.708,0.724,0.849,0.800,0.770,(2.7908)+(0.0430)Ser+(-0.1252)His+(-0.0079)Ala+(-0.0501)Cit+(-0.0077)Tyr+(0.0772)Ile;0.824,0.851,0.803,0.779,0.825,0.836,0.795,0.809,(6.6580)+(-0.1016)Cit+(-0.0865)Met+(0.0431)Orn+(-0.0060)Lys+(0.0597)Ile+(-0.1548)Trp;0.824,0.853,0.809,0.812,0.810,0.840,0.775,0.809,(4.1303)+(0.0451)Ser+(-0.0080)Gly+(-0.1549)Met+(0.0240)Orn+(0.0009)Lys+(-0.1366)Trp;0.824,0.853,0.803,0.793,0.808,0.792,0.825,0.805,(5.0337)+(-0.0372)Asn+(-0.0869)Cit+(-0.0258)Tyr+(0.0501)Ile+(0.0845)Phe+(-0.16
91)Trp;0.824,0.853,0.810,0.813,0.810,0.842,0.778,0.811,(4.1918)+(0.0449)Ser+(-0.0080)Gly+(-0.0005)Ala+(-0.1487)Met+(0.0249)Orn+(-0.1351)Trp;0.824,0.851,0.756,0.728,0.741,0.800,0.829,0.775,(4.1789)+(-0.0604)Asn+(-0.1224)His+(0.0129)Thr+(0.0975)Ile+(-0.0530)Leu+(0.0766)Phe;0.82

4,0.850,0.789,0.785,0.799,0.828,0.748,0.790,(8.4476)+(0.0008)Gly+(-0.0920)His+(0.0226)Thr+(-0.0144)Arg+(0.0066)Pro+(-0.1093)Trp;0.824,0.848,0.729,0.708,0.714,0.812,0.760,0.748,(1.0143)+(0.0451)Ser+(-0.1557)His+(-0.0034)Ala+(-0.0380)Tyr+(0.0078)Leu+(0.1096)Phe;0.824,0.854,0.812,0.817,0.816,0.843,0.767,0.811,(5.0483)+(0.0402)Ser+(-0.0086)Gly+(0.0182)Thr+(-0.1868)Met+(0.0013)Lys+(-0.1433)Trp;0.824,0.849,0.760,0.739,0.719,0.826,0.852,0.784,(2.3849)+(0.0054)Gln+(-0.1364)His+(-0.0046)Pro+(-0.0315)Val+(0.1077)Ile+(0.0630)Phe;0.824,0.852,0.799,0.792,0.828,0.810,0.750,0.795,(4.5487)+(0.0020)Gly+(0.0191)Thr+(-0.1038)Cit+(-0.0123)Lys+(0.1022)Phe+(-0.1802)Trp;0.824,0.855,0.801,0.798,0.783,0.802,0.846,0.807,(3.4059)+(0.0134)Thr+(-0.0071)Ala+(-0.0280)Val+(0.0492)Leu+(0.0847)Phe+(-0.1749)Trp;0.824,0.854,0.817,0.824,0.830,0.811,0.777,0.810,(5.0020)+(-0.0646)Asn+(0.0056)Gly+(-0.0879)Cit+(-0.0028)Val+(0.1057)Phe+(-0.1536)Trp;0.824,0.848,0.801,0.795,0.831,0.836,0.732,0.798,(7.4525)+(-0.0616)Asn+(0.0039)Gly+(-0.1143)Cit+(0.0064)Pro+(0.0548)Orn+(-0.1487)Trp;0.824,0.846,0.718,0.677,0.722,0.813,0.747,0.740,(1.1980)+(0.0472)Ser+(-0.1659)His+(0.0039)Thr+(-0.0160)Lys+(0.0101)Leu+(0.0943)Phe;0.824,0.857,0.810,0.815,0.809,0.835,0.779,0.810,(2.8881)+(0.0408)Ser+(-0.0768)Asn+(0.0044)Gln+(-0.1412)Met+(0.0218)Leu+(-0.1442)Trp;0.824,0.854,0.818,0.818,0.811,0.832,0.823,0.821,(3.9849)+(0.0477)Ser+(-0.1242)Asn+(-0.0079)Gly+(0.0040)Gln+(0.0074)Pro+(-0.1411)Trp;0.824,0.853,0.812,0.811,0.837,0.838,0.742,0.807,(7.4521)+(0.0261)Thr+(-0.0670)Cit+(0.0090)Pro+(0.0137)Tyr+(-0.1929)Met+(-0.1471)Trp;0.824,0.852,0.807,0.792,0.821,0.842,0.791,0.811,(7.0874)+(-0.0089)Ala+(-0.1205)Cit+(0.0115)Pro+(0.0548)Orn+(0.0127)Leu+(-0.1586)Trp;0.824,0.857,0.789,0.800,0.772,0.758,0.816,0.786,(3.5733)+(0.0060)Pro+(-0.0350)Tyr+(-0.0254)Val+(0.0385)Leu+(0.0940)Phe+(-0.1625)Trp;0.824,0.852,0.807,0.809,0.832,0.835,0.727,0.801,(7.6666)+(0.0273)Thr+(-0.0637)Cit+(-0.00

40)Arg+(0.0098)Pro+(-0.1745)Met+(-0.1430)Trp;0.824,0.848,0.796,0.779,0.834,0.831,0.742,0.796,(7.0373)+(0.0129)Thr+(-0.1223)Cit+(0.0527)Orn+(-0.0132)Lys+(0.0164)Leu+(-0.1698)Trp;0.824,0.851,0.818,0.819,0.825,0.850,0.777,0.818,(5.1885)+(0.0436)Ser+(-0.0057)Gly+(-0.0535)Cit+(-0.1212)Met+(0.0049)Lys+(-0.1354)Trp;0.824,0.849,0.730,0.695,0.705,0.836,0.800,0.759,(2.3605)+(0.0347)Ser+(0.0028)Gln+(-0.1218)His+(-0.0260)Val+(-0.0118)Lys+(0.1202)Ile;0.824,0.848,0.781,0.763,0.800,0.814,0.765,0.786,(5.8089)+(0.0088)Thr+(-0.1104)Cit+(-0.0201)Tyr+(0.0375)Orn+(0.0528)Ile+(-0.1755)Trp;0.824,0.855,0.794,0.767,0.797,0.825,0.837,0.806,(7.3010)+(0.0253)Asn+(-0.0853)His+(0.0029)Arg+(-0.1118)Met+(0.0748)Ile+(-0.1124)Trp;0.824,0.854,0.838,0.839,0.853,0.816,0.820,0.832,(5.2235)+(-0.0153)Asn+(-0.0709)Cit+(-0.0021)Val+(-0.1399)Met+(0.1231)Phe+(-0.1452)Trp;0.824,0.853,0.787,0.761,0.787,0.815,0.835,0.800,(7.4098)+(-0.0017)Asn+(-0.0947)His+(-0.0014)Tyr+(0.0033)Lys+(0.0633)Ile+(-0.1215)Trp;0.824,0.853,0.786,0.760,0.786,0.815,0.835,0.799,(7.3736)+(-0.0949)His+(0.0006)Pro+(-0.0020)Tyr+(0.0032)Lys+(0.0628)Ile+(-0.1215)Trp;0.824,0.853,0.833,0.845,0.838,0.805,0.808,0.824,(3.9581)+(-0.0266)Asn+(0.0029)Gly+(-0.0061)Val+(-0.1778)Met+(0.1233)Phe+(-0.1322)Trp;0.824,0.852,0.817,0.817,0.812,0.847,0.808,0.821,(5.0648)+(0.0467)Ser+(-0.1000)Asn+(-0.0073)Gly+(-0.0022)Ala+(0.0247)Orn+(-0.1328)Trp;0.824,0.851,0.771,0.760,0.737,0.816,0.837,0.788,(5.1597)+(0.0084)Thr+(-0.0367)Val+(-0.0067)Lys+(0.1606)Ile+(-0.0136)Leu+(-0.1358)Trp;0.824,0.859,0.787,0.785,0.772,0.809,0.807,0.793,(0.8589)+(0.0314)Ser+(-0.0008)Gln+(-0.0072)Ala+(0.0058)Leu+(0.0817)Phe+(-0.1679)Trp;0.824,0.854,0.799,0.813,0.804,0.844,0.721,0.795,(3.7394)+(0.0280)Ser+(0.0019)Gln+(0.0110)Thr+(-0.1875)Met+(0.0162)Orn+(-0.1432)Trp;0.824,0.854,0.720,0.676,0.715,0.834,0.767,0.748,(2.6006)+(0.0394)Ser+(-0.1340)His+(0.0141)Orn+(-0.0114)Lys+(0.0993)Ile+(-0.0293)Leu;0.824,0.853,0.772,0.757,0.747,0.8

29,0.821,0.788,(2.2110)+(0.0314)Ser+(-0.0005)Gln+(-0.0089)Ala+(-0.004
7)Tyr+(0.0736)Ile+(-0.1614)Trp;0.824,0.852,0.804,0.799,0.747,0.876,0.
886,0.827,(3.3039)+(0.0035)Gln+(-0.0056)Ala+(-0.0542)Val+(-0.2879)Met
+(0.0058)Lys+(0.1966)Ile;0.824,0.851,0.803,0.794,0.821,0.837,0.765,0.
804,(8.9289)+(-0.0306)Asn+(-0.0837)His+(0.0256)Thr+(-0.0454)Cit+(0.00
78)Val+(-0.1206)Trp;0.824,0.856,0.813,0.813,0.825,0.856,0.758,0.813,(
5.6463)+(0.0412)Ser+(-0.0951)Asn+(-0.0681)Cit+(0.0154)Tyr+(0.0037)Lys
+(-0.1436)Trp;0.824,0.851,0.787,0.768,0.793,0.830,0.793,0.796,(7.9667
)+(-0.1102)His+(0.0229)Thr+(-0.0033)Ala+(0.0026)Tyr+(0.0277)Leu+(-0.1
219)Trp;0.824,0.850,0.817,0.802,0.811,0.844,0.854,0.828,(7.0492)+(-0.
0081)Asn+(-0.0074)Ala+(-0.0769)Cit+(-0.0035)Lys+(0.0815)Ile+(-0.1519)
Trp;0.824,0.847,0.795,0.786,0.802,0.831,0.780,0.800,(8.0993)+(-0.1030
)His+(0.0204)Thr+(-0.0026)Ala+(0.0082)Val+(0.0033)Lys+(-0.1153)Trp;0.
824,0.847,0.795,0.787,0.802,0.834,0.772,0.799,(8.1203)+(0.0011)Gly+(-
0.1025)His+(0.0209)Thr+(-0.0026)Ala+(0.0090)Val+(-0.1135)Trp;0.824,0.
857,0.801,0.800,0.776,0.796,0.861,0.808,(3.7394)+(-0.0082)Ala+(0.0097
)Pro+(-0.0272)Val+(0.0466)Leu+(0.0835)Phe+(-0.1648)Trp;0.824,0.850,0.
824,0.825,0.814,0.851,0.820,0.828,(5.7857)+(0.0008)Gly+(0.0097)Gln+(-
0.1138)His+(-0.0017)Ala+(0.0196)Tyr+(-0.1061)Trp;0.824,0.858,0.794,0.
799,0.814,0.797,0.737,0.787,(4.8759)+(0.0268)Thr+(-0.0986)Cit+(-0.040
4)Tyr+(-0.0122)Lys+(0.1207)Phe+(-0.1719)Trp;0.824,0.851,0.795,0.791,0
.723,0.856,0.908,0.820,(3.6821)+(-0.1214)Asn+(-0.0083)Ala+(-0.0507)Va
l+(0.1943)Ile+(-0.0265)Leu+(0.0739)Phe;0.824,0.854,0.824,0.827,0.818,
0.845,0.811,0.825,(5.8225)+(0.0116)Gln+(-0.1028)His+(-0.0113)Arg+(0.0
100)Pro+(-0.0763)Met+(-0.0982)Trp;0.824,0.851,0.774,0.763,0.740,0.815
,0.843,0.790,(4.8180)+(0.0001)Gln+(-0.0029)Pro+(-0.0417)Val+(0.0131)O
rn+(0.1493)Ile+(-0.1389)Trp;0.824,0.858,0.844,0.861,0.842,0.799,0.836
,0.835,(1.5877)+(0.0061)Gln+(-0.0075)Val+(-0.2504)Met+(0.0054)Lys+(0.

1223)Phe+(-0.1438)Trp;0.824,0.850,0.800,0.780,0.825,0.839,0.771,0.804,(8.5121)+(-0.0197)Asn+(-0.0650)His+(-0.0813)Cit+(0.0069)Pro+(0.0558)Orn+(-0.1164)Trp;0.824,0.848,0.754,0.749,0.681,0.841,0.855,0.781,(-0.7045)+(0.0319)Ser+(-0.0113)Ala+(-0.0379)Arg+(-0.0591)Val+(0.1852)Ile+(0.0615)Phe;0.824,0.852,0.806,0.808,0.830,0.835,0.729,0.801,(7.4934)+(0.0005)Gly+(0.0259)Thr+(-0.0669)Cit+(0.0098)Pro+(-0.1763)Met+(-0.1430)Trp;0.824,0.850,0.742,0.717,0.738,0.828,0.754,0.759,(1.2994)+(0.0507)Ser+(-0.1514)His+(-0.0038)Ala+(-0.0184)Arg+(-0.0063)Lys+(0.1125)Phe;0.824,0.849,0.777,0.751,0.794,0.816,0.778,0.785,(7.2866)+(0.0031)Gly+(-0.1076)His+(0.0037)Pro+(0.0275)Orn+(0.0198)Leu+(-0.1131)Trp;0.824,0.854,0.805,0.793,0.755,0.876,0.887,0.828,(5.9312)+(-0.0228)Asn+(-0.0062)Ala+(-0.0464)Cit+(-0.0510)Val+(-0.1827)Met+(0.1946)Ile;0.824,0.848,0.772,0.752,0.786,0.813,0.768,0.780,(7.5750)+(0.0016)Gly+(-0.1143)His+(0.0210)Thr+(-0.0021)Tyr+(0.0260)Leu+(-0.1215)Trp;0.824,0.853,0.783,0.765,0.812,0.838,0.732,0.787,(7.6601)+(0.0045)Gly+(-0.0751)His+(-0.0853)Cit+(0.0072)Pro+(0.0546)Orn+(-0.1168)Trp;0.824,0.862,0.804,0.786,0.815,0.813,0.824,0.809,(6.1958)+(-0.0905)His+(-0.0558)Cit+(0.0017)Arg+(0.0053)Pro+(0.1102)Phe+(-0.1290)Trp;0.824,0.851,0.768,0.761,0.732,0.815,0.826,0.784,(5.4444)+(0.0117)Thr+(-0.0165)Tyr+(-0.0400)Val+(-0.0074)Lys+(0.1519)Ile+(-0.1328)Trp;0.824,0.850,0.728,0.697,0.711,0.825,0.779,0.753,(0.7805)+(0.0465)Ser+(-0.1569)His+(-0.0030)Thr+(-0.0068)Ala+(0.0076)Pro+(0.0947)Phe;0.824,0.858,0.805,0.776,0.812,0.830,0.848,0.816,(7.4099)+(-0.0856)His+(0.0175)Tyr+(-0.1355)Met+(0.0087)Lys+(0.0668)Ile+(-0.1206)Trp;0.824,0.856,0.811,0.798,0.803,0.835,0.843,0.820,(0.9726)+(0.0122)Gln+(-0.1506)His+(-0.0024)Ala+(0.0071)Pro+(-0.2440)Met+(0.1222)Phe;0.824,0.855,0.832,0.842,0.836,0.807,0.815,0.825,(4.3857)+(-0.0308)Asn+(-0.0085)Val+(-0.1746)Met+(0.0207)Orn+(0.1123)Phe+(-0.1273)Trp;0.824,0.854,0.823,0.825,0.816,0.819,0.835,0.824,(3.3218)

+(0.0049)Gln+(-0.0094)Ala+(-0.1017)Cit+(0.0121)Pro+(0.0972)Phe+(-0.1725)Trp;0.824,0.848,0.728,0.685,0.727,0.831,0.770,0.753,(3.0206)+(0.0487)Ser+(-0.0604)Asn+(-0.1330)His+(-0.0005)Pro+(-0.0083)Lys+(0.0653)Ile;0.824,0.860,0.809,0.798,0.796,0.835,0.844,0.818,(5.9649)+(0.0006)Pro+(0.0145)Tyr+(-0.1735)Met+(0.1504)Ile+(-0.0616)Leu+(-0.1282)Trp;0.824,0.855,0.793,0.765,0.799,0.826,0.832,0.805,(7.7061)+(-0.0755)His+(-0.0460)Cit+(0.0017)Pro+(0.0029)Tyr+(0.0665)Ile+(-0.1297)Trp;0.824,0.855,0.774,0.750,0.771,0.856,0.789,0.791,(2.1345)+(0.0389)Ser+(0.0071)Gln+(-0.1383)His+(-0.0207)Val+(-0.1962)Met+(0.0615)Leu;0.824,0.854,0.807,0.811,0.817,0.851,0.743,0.805,(9.1096)+(0.0003)Gly+(-0.0818)His+(0.0335)Thr+(-0.0098)Arg+(-0.1081)Met+(-0.1012)Trp;0.824,0.848,0.742,0.716,0.744,0.819,0.750,0.757,(-0.3675)+(0.0418)Ser+(0.0071)Gln+(-0.1796)His+(-0.0297)Arg+(0.0020)Leu+(0.0967)Phe;0.824,0.849,0.782,0.763,0.746,0.856,0.853,0.804,(3.6687)+(0.0065)Gln+(-0.1273)His+(-0.0072)Ala+(0.0122)Orn+(0.1133)Ile+(-0.0425)Leu;0.824,0.859,0.829,0.838,0.832,0.788,0.828,0.822,(1.5599)+(0.0060)Gln+(0.0070)Pro+(-0.2657)Met+(0.0002)Orn+(0.1101)Phe+(-0.1497)Trp;0.824,0.855,0.824,0.814,0.830,0.847,0.822,0.828,(5.4611)+(0.0108)Gln+(-0.1145)His+(-0.0455)Cit+(0.0111)Tyr+(0.0110)Val+(-0.1238)Trp;0.824,0.853,0.790,0.789,0.757,0.830,0.836,0.803,(4.9068)+(0.0039)Gln+(-0.0268)Arg+(-0.0324)Val+(0.1770)Ile+(-0.0315)Leu+(-0.1308)Trp;0.824,0.850,0.718,0.674,0.725,0.815,0.748,0.741,(1.0693)+(0.0474)Ser+(-0.1649)His+(0.0145)Orn+(-0.0160)Lys+(0.0080)Leu+(0.0928)Phe;0.824,0.847,0.756,0.748,0.704,0.859,0.812,0.781,(2.8488)+(0.0461)Ser+(-0.1558)Asn+(-0.0206)Arg+(-0.0518)Val+(0.1892)Ile+(-0.0156)Leu;0.824,0.845,0.759,0.743,0.710,0.838,0.848,0.785,(5.6207)+(-0.0941)His+(0.0127)Thr+(-0.0063)Ala+(-0.0188)Tyr+(-0.0335)Val+(0.1401)Ile;0.824,0.857,0.799,0.796,0.805,0.863,0.747,0.803,(6.4052)+(0.0400)Ser+(-0.0740)His+(-0.0327)Cit+(-0.0008)Arg+(-0.0455)Met+(-0.0951)Trp;0.8

24,0.855,0.792,0.792,0.784,0.771,0.824,0.793,(3.2756)+(0.0031)Pro+(-0.0289)Val+(0.0116)Orn+(0.0420)Leu+(0.0713)Phe+(-0.1716)Trp;0.824,0.855,0.803,0.802,0.786,0.822,0.826,0.809,(6.2644)+(-0.0398)Asn+(-0.0191)Arg+(0.0092)Lys+(0.1494)Ile+(-0.0728)Leu+(-0.1356)Trp;0.824,0.855,0.834,0.832,0.848,0.814,0.825,0.830,(4.8875)+(-0.0200)Asn+(-0.0805)Cit+(0.0125)Arg+(-0.1545)Met+(0.1210)Phe+(-0.1499)Trp;0.824,0.854,0.807,0.816,0.809,0.849,0.747,0.805,(4.5905)+(0.0388)Ser+(-0.0699)Asn+(0.0008)Val+(-0.0993)Met+(0.0241)Orn+(-0.1312)Trp;0.824,0.851,0.781,0.780,0.806,0.789,0.728,0.776,(4.2944)+(0.0147)Thr+(-0.1263)Cit+(-0.0445)Tyr+(0.0430)Orn+(0.0990)Phe+(-0.1769)Trp;0.824,0.849,0.732,0.715,0.715,0.811,0.754,0.749,(1.0529)+(0.0447)Ser+(-0.1530)His+(-0.0028)Ala+(-0.0384)Tyr+(0.0003)Val+(0.1173)Phe;0.824,0.856,0.762,0.738,0.764,0.762,0.819,0.771,(0.5085)+(0.0391)Ser+(-0.0076)Gly+(-0.0027)Pro+(0.0432)Ile+(0.0440)Phe+(-0.1879)Trp;0.824,0.847,0.786,0.775,0.799,0.820,0.763,0.789,(7.7497)+(0.0012)Gly+(-0.1062)His+(0.0184)Thr+(0.0071)Val+(0.0032)Lys+(-0.1159)Trp;0.824,0.852,0.773,0.766,0.739,0.813,0.838,0.789,(5.3473)+(-0.0152)Tyr+(-0.0406)Val+(0.0177)Orn+(-0.0047)Lys+(0.1484)Ile+(-0.1285)Trp;0.824,0.848,0.738,0.722,0.730,0.803,0.746,0.750,(1.3314)+(0.0544)Ser+(-0.0038)Gly+(-0.1475)His+(-0.0202)Arg+(-0.0461)Tyr+(0.1248)Phe;0.824,0.847,0.811,0.804,0.836,0.838,0.761,0.810,(8.0127)+(-0.0559)Asn+(-0.1078)Cit+(0.0068)Pro+(-0.0030)Val+(0.0571)Orn+(-0.1440)Trp;0.824,0.852,0.843,0.850,0.837,0.865,0.824,0.844,(6.3859)+(-0.0451)Asn+(0.0123)Gln+(-0.0902)His+(-0.0340)Cit+(-0.0043)Arg+(-0.0988)Trp;0.824,0.852,0.811,0.811,0.819,0.820,0.788,0.809,(4.2419)+(0.0019)Gly+(0.0176)Thr+(-0.0070)Ala+(-0.0986)Cit+(0.1048)Phe+(-0.1772)Trp;0.824,0.851,0.749,0.727,0.748,0.826,0.756,0.764,(-0.1035)+(0.0437)Ser+(0.0071)Gln+(-0.1739)His+(-0.0259)Arg+(-0.0084)Lys+(0.1061)Phe;0.824,0.847,0.780,0.773,0.741,0.814,0.855

,0.796,(4.8715)+(-0.0009)Gly+(0.0011)Gln+(-0.0018)Pro+(-0.0404)Val+(0.1483)Ile+(-0.1397)Trp;0.824,0.857,0.801,0.777,0.803,0.826,0.842,0.812,(7.4916)+(-0.0855)His+(0.0015)Arg+(-0.1126)Met+(0.0087)Lys+(0.0681)Ile+(-0.1157)Trp;0.824,0.856,0.807,0.809,0.789,0.847,0.812,0.814,(3.8799)+(0.0399)Ser+(-0.1406)Asn+(0.0037)Gln+(-0.0293)Val+(0.0601)Leu+(-0.1319)Trp;0.824,0.855,0.816,0.800,0.815,0.842,0.838,0.824,(0.7153)+(0.0137)Gln+(-0.1520)His+(-0.0408)Cit+(-0.2407)Met+(0.0075)Leu+(0.1224)Phe;0.824,0.851,0.777,0.749,0.809,0.834,0.742,0.784,(7.4465)+(0.0057)Gly+(-0.0883)His+(-0.0843)Cit+(0.0523)Orn+(0.0227)Leu+(-0.1273)Trp;0.824,0.851,0.826,0.822,0.828,0.847,0.817,0.829,(5.5936)+(0.0116)Gln+(-0.1126)His+(-0.0397)Cit+(-0.0072)Arg+(0.0113)Val+(-0.1172)Trp;0.824,0.849,0.735,0.700,0.725,0.836,0.775,0.759,(2.8002)+(0.0484)Ser+(-0.0040)Gly+(-0.1221)His+(-0.0236)Arg+(0.1199)Ile+(-0.0448)Leu;0.824,0.853,0.802,0.796,0.791,0.831,0.822,0.810,(6.2145)+(-0.0112)Arg+(-0.1391)Met+(0.0172)Orn+(0.1517)Ile+(-0.0650)Leu+(-0.1227)Trp;0.824,0.853,0.787,0.777,0.797,0.830,0.763,0.791,(7.7104)+(-0.1015)His+(0.0157)Thr+(-0.0040)Tyr+(0.0284)Orn+(0.0031)Lys+(-0.1076)Trp;0.823,0.851,0.780,0.758,0.752,0.853,0.842,0.801,(6.0276)+(-0.0055)Asn+(0.0043)Gly+(-0.0659)His+(-0.0415)Val+(-0.2086)Met+(0.1684)Ile;0.823,0.856,0.819,0.816,0.838,0.789,0.810,0.813,(4.4884)+(-0.0760)Cit+(0.0088)Pro+(-0.1955)Met+(0.0052)Lys+(0.1160)Phe+(-0.1566)Trp;0.823,0.846,0.775,0.757,0.726,0.850,0.871,0.801,(4.0384)+(0.0052)Gln+(-0.1078)His+(-0.0073)Ala+(0.0033)Pro+(-0.0307)Val+(0.1270)Ile;0.823,0.851,0.839,0.848,0.829,0.860,0.820,0.839,(6.2236)+(-0.0351)Asn+(0.0124)Gln+(-0.0995)His+(-0.0090)Arg+(-0.0216)Met+(-0.0938)Trp;0.823,0.848,0.787,0.764,0.813,0.817,0.769,0.791,(5.7814)+(0.0091)Thr+(-0.1084)Cit+(-0.0093)Arg+(0.0366)Orn+(0.0512)Ile+(-0.1822)Trp;0.823,0.846,0.755,0.745,0.703,0.857,0.816,0.781,(2.8911)+(0.0464)Ser+(-0.1622)Asn+(-0.0187)Arg+(-0.0565)Val+(-0.0003)L

ys+(0.1775)Ile;0.823,0.846,0.735,0.700,0.726,0.840,0.770,0.759,(1.5140)+(0.0334)Ser+(0.0048)Gln+(-0.1372)His+(-0.0541)Cit+(0.1062)Ile+(-0.0365)Leu;0.823,0.852,0.719,0.663,0.740,0.839,0.737,0.745,(2.9651)+(0.0429)Ser+(-0.1318)His+(-0.0674)Cit+(0.0361)Orn+(-0.0174)Lys+(0.0611)Ile;0.823,0.852,0.811,0.809,0.821,0.821,0.792,0.810,(5.0336)+(-0.0061)Ala+(-0.1256)Cit+(-0.0201)Tyr+(0.0533)Orn+(0.0984)Phe+(-0.1611)Trp;0.823,0.849,0.772,0.751,0.779,0.814,0.784,0.782,(7.7873)+(-0.1096)His+(0.0234)Thr+(0.0002)Tyr+(-0.0192)Val+(0.0551)Leu+(-0.1208)Trp;0.823,0.843,0.774,0.760,0.724,0.850,0.864,0.799,(6.1696)+(-0.0596)Asn+(0.0036)Gly+(-0.0704)His+(-0.0058)Ala+(-0.0389)Val+(0.1522)Ile;0.823,0.861,0.820,0.830,0.818,0.795,0.814,0.814,(4.5335)+(-0.0808)Asn+(0.0022)Gly+(0.0058)Pro+(-0.0096)Val+(0.0931)Phe+(-0.1428)Trp;0.823,0.850,0.719,0.679,0.726,0.813,0.746,0.741,(1.0693)+(0.0465)Ser+(-0.1626)His+(0.0016)Pro+(0.0156)Orn+(-0.0146)Lys+(0.0982)Phe;0.823,0.846,0.738,0.707,0.724,0.823,0.787,0.760,(1.0936)+(0.0483)Ser+(-0.0028)Gly+(-0.1577)His+(-0.0046)Ala+(-0.0009)Val+(0.0987)Phe;0.823,0.852,0.801,0.797,0.800,0.826,0.797,0.805,(4.9888)+(0.0482)Ser+(-0.1133)Asn+(-0.0076)Gly+(0.0063)Thr+(0.0074)Pro+(-0.1419)Trp;0.823,0.848,0.742,0.717,0.744,0.818,0.746,0.756,(-0.2598)+(0.0408)Ser+(0.0070)Gln+(-0.1796)His+(0.0026)Thr+(-0.0306)Arg+(0.0984)Phe;0.823,0.847,0.772,0.753,0.757,0.852,0.799,0.790,(2.9620)+(0.0400)Ser+(-0.1175)Asn+(0.0080)Gln+(-0.1353)His+(-0.0246)Val+(0.0572)Leu;0.823,0.847,0.757,0.734,0.732,0.808,0.831,0.776,(1.6346)+(0.0070)Gln+(-0.1525)His+(-0.0001)Thr+(0.0932)Ile+(-0.0485)Leu+(0.0673)Phe;0.823,0.851,0.721,0.702,0.710,0.801,0.735,0.737,(0.9081)+(0.0419)Ser+(-0.1558)His+(-0.0469)Tyr+(-0.0028)Val+(0.0188)Orn+(0.1158)Phe;0.823,0.844,0.761,0.738,0.714,0.840,0.861,0.788,(5.3278)+(-0.0955)His+(0.0098)Thr+(-0.0077)Ala+(0.0033)Pro+(-0.0348)Val+(0.1377)Ile;0.823,0.859,0.817,0.810,0.792,0.824,0.879,0.826,(2.7665)+(0.0036)Gl

n+(-0.0093)Ala+(-0.0111)Lys+(0.0619)Ile+(0.0614)Phe+(-0.1695)Trp;0.82
3,0.855,0.822,0.830,0.827,0.790,0.815,0.816,(4.0142)+(-0.0039)Arg+(0.
0098)Pro+(-0.0081)Val+(-0.2158)Met+(0.1215)Phe+(-0.1345)Trp;0.823,0.8
50,0.719,0.698,0.711,0.797,0.734,0.735,(1.0246)+(0.0471)Ser+(-0.1511)
His+(0.0052)Pro+(-0.0434)Tyr+(-0.0089)Lys+(0.1182)Phe;0.823,0.861,0.7
84,0.776,0.786,0.769,0.812,0.785,(0.9155)+(0.0395)Ser+(-0.0080)Gly+(-
0.0006)Orn+(-0.0024)Leu+(0.0694)Phe+(-0.1751)Trp;0.823,0.855,0.823,0.
827,0.824,0.821,0.810,0.821,(3.3755)+(0.0035)Gln+(0.0152)Thr+(-0.0072
)Ala+(-0.0990)Cit+(0.1013)Phe+(-0.1805)Trp;0.823,0.853,0.798,0.779,0.
778,0.860,0.844,0.815,(3.1810)+(0.0027)Gly+(0.0100)Gln+(-0.1351)His+(
-0.0042)Ala+(-0.1775)Met+(0.0730)Ile;0.823,0.848,0.742,0.729,0.730,0.
811,0.751,0.755,(0.0610)+(0.0389)Ser+(0.0052)Gln+(-0.1592)His+(-0.041
2)Cit+(-0.0455)Tyr+(0.1179)Phe;0.823,0.851,0.799,0.809,0.804,0.850,0.
724,0.797,(4.3250)+(0.0293)Ser+(0.0117)Thr+(-0.0015)Ala+(-0.1708)Met+
(0.0192)Orn+(-0.1397)Trp;0.823,0.850,0.834,0.845,0.849,0.856,0.756,0.
827,(6.0191)+(-0.0015)Gly+(0.0058)Gln+(0.0249)Thr+(-0.0656)Cit+(-0.17
02)Met+(-0.1464)Trp;0.823,0.847,0.795,0.787,0.739,0.871,0.876,0.818,(
5.1492)+(-0.0377)Asn+(0.0033)Gly+(-0.0052)Ala+(-0.0533)Val+(-0.2092)M
et+(0.1961)Ile;0.823,0.856,0.814,0.813,0.826,0.860,0.761,0.815,(5.755
0)+(0.0412)Ser+(-0.0906)Asn+(-0.0688)Cit+(0.0020)Arg+(0.0171)Tyr+(-0.
1412)Trp;0.823,0.853,0.786,0.769,0.800,0.823,0.774,0.791,(8.4772)+(-0
.0240)Asn+(-0.1052)His+(0.0273)Thr+(-0.0098)Arg+(0.0240)Leu+(-0.1209)
Trp;0.823,0.851,0.778,0.758,0.794,0.815,0.769,0.784,(8.1124)+(-0.1090
)His+(0.0247)Thr+(-0.0128)Arg+(0.0033)Pro+(0.0230)Leu+(-0.1237)Trp;0.
823,0.847,0.706,0.656,0.702,0.806,0.771,0.734,(0.1848)+(0.0456)Ser+(-
0.1702)His+(-0.0042)Thr+(-0.0030)Pro+(0.0410)Ile+(0.0700)Phe;0.823,0.
846,0.720,0.703,0.718,0.794,0.718,0.733,(0.9672)+(0.0500)Ser+(-0.1504
)His+(-0.0232)Arg+(0.0064)Pro+(-0.0486)Tyr+(0.1229)Phe;0.823,0.860,0.

820,0.820,0.812,0.806,0.849,0.822,(5.0474)+(-0.0911)Asn+(-0.0342)Val+(0.0242)Orn+(0.0501)Leu+(0.0791)Phe+(-0.1417)Trp;0.823,0.859,0.810,0.799,0.804,0.830,0.840,0.818,(0.8572)+(0.0126)Gln+(-0.1567)His+(-0.0099)Tyr+(-0.2313)Met+(0.0070)Leu+(0.1222)Phe;0.823,0.851,0.803,0.799,0.827,0.810,0.762,0.799,(5.2086)+(-0.1281)Cit+(-0.0278)Tyr+(0.0549)Orn+(-0.0088)Lys+(0.0969)Phe+(-0.1601)Trp;0.823,0.851,0.795,0.781,0.808,0.821,0.784,0.799,(4.7122)+(0.0039)Gln+(-0.1130)Cit+(-0.0177)Tyr+(0.0364)Orn+(0.0533)Ile+(-0.1783)Trp;0.823,0.848,0.716,0.670,0.717,0.812,0.769,0.742,(-0.5000)+(0.0397)Ser+(0.0047)Gln+(-0.1747)His+(-0.0486)Cit+(0.0388)Ile+(0.0671)Phe;0.823,0.846,0.814,0.811,0.836,0.854,0.750,0.813,(7.9081)+(-0.0495)Asn+(0.0036)Gly+(-0.0039)Ala+(-0.1139)Cit+(0.0628)Orn+(-0.1351)Trp;0.823,0.853,0.817,0.819,0.822,0.849,0.777,0.817,(5.9226)+(0.0466)Ser+(-0.0879)Asn+(-0.0047)Gly+(-0.0589)Cit+(0.0044)Lys+(-0.1373)Trp;0.823,0.852,0.802,0.794,0.761,0.871,0.861,0.822,(3.2703)+(0.0055)Gln+(-0.0524)Cit+(0.0028)Pro+(-0.0516)Val+(-0.3013)Met+(0.1833)Ile;0.823,0.851,0.778,0.776,0.738,0.815,0.838,0.792,(4.9004)+(0.0013)Gln+(-0.0151)Tyr+(-0.0323)Val+(0.1640)Ile+(-0.0241)Leu+(-0.1317)Trp;0.823,0.849,0.723,0.679,0.714,0.829,0.780,0.751,(2.1135)+(0.0399)Ser+(-0.1326)His+(-0.0100)Thr+(0.0139)Orn+(0.1073)Ile+(-0.0392)Leu;0.823,0.848,0.760,0.741,0.701,0.869,0.858,0.792,(1.9941)+(0.0314)Ser+(-0.0112)Ala+(-0.0750)Cit+(-0.0437)Val+(-0.0169)Lys+(0.1831)Ile;0.823,0.846,0.718,0.676,0.722,0.811,0.750,0.740,(1.0613)+(0.0487)Ser+(-0.1637)His+(0.0014)Pro+(-0.0149)Lys+(0.0091)Leu+(0.0941)Phe;0.823,0.853,0.820,0.834,0.808,0.857,0.781,0.820,(4.0761)+(0.0339)Ser+(-0.1138)Asn+(0.0034)Gln+(-0.0029)Ala+(0.0211)Orn+(-0.1333)Trp;0.823,0.851,0.830,0.841,0.846,0.855,0.747,0.822,(5.8206)+(0.0055)Gln+(0.0236)Thr+(-0.0671)Cit+(-0.1719)Met+(0.0015)Lys+(-0.1468)Trp;0.823,0.849,0.728,0.712,0.711,0.810,0.745,0.745,(1.1546)+(0.0419)Ser+(-0.1559)His+(0.0067)Thr+

(-0.0029)Ala+(-0.0426)Tyr+(0.1176)Phe;0.823,0.864,0.756,0.751,0.761,0.761,0.757,0.757,(0.7088)+(0.0316)Ser+(-0.0018)Gln+(0.0024)Pro+(-0.0034)Orn+(0.0730)Phe+(-0.1784)Trp;0.823,0.851,0.774,0.757,0.799,0.815,0.737,0.777,(3.8502)+(0.0338)Ser+(-0.0010)Thr+(-0.0876)Cit+(0.0074)Pro+(0.0145)Leu+(-0.1755)Trp;0.823,0.848,0.780,0.754,0.774,0.848,0.812,0.797,(2.4951)+(0.0439)Ser+(-0.0931)Asn+(-0.0047)Gly+(0.0087)Gln+(-0.1518)His+(0.0190)Leu;0.823,0.844,0.741,0.706,0.726,0.830,0.802,0.766,(1.9772)+(0.0408)Ser+(-0.0063)Gly+(0.0051)Gln+(-0.1542)His+(-0.0282)Tyr+(0.0565)Ile;0.823,0.853,0.786,0.774,0.806,0.825,0.746,0.788,(8.2582)+(-0.1032)His+(0.0212)Thr+(-0.0155)Arg+(0.0045)Val+(0.0289)Orn+(-0.1135)Trp;0.823,0.853,0.781,0.756,0.756,0.858,0.845,0.804,(5.5609)+(0.0051)Gly+(-0.0681)His+(0.0248)Tyr+(-0.0436)Val+(-0.2563)Met+(0.1724)Ile;0.823,0.850,0.803,0.792,0.833,0.806,0.766,0.799,(4.8220)+(-0.1217)Cit+(-0.0065)Arg+(0.0471)Orn+(
-0.0008)Leu+(0.0766)Phe+(-0.1774)Trp;0.823,0.851,0.800,0.791,0.748,0.855,0.894,0.822,(2.5892)+(-0.1848)Asn+(0.0066)Gln+(-0.0682)Cit+(-0.0594)Val+(0.1647)Ile+(0.0750)Phe;0.823,0.851,0.811,0.805,0.843,0.838,0.741,0.807,(8.0832)+(-0.0726)Asn+(0.0158)Thr+(-0.1075)Cit+(-0.0029)Arg+(0.0514)Orn+(-0.1509)Trp;0.823,0.854,0.817,0.821,0.838,0.805,0.772,0.809,(3.6419)+(0.0057)Gly+(-0.0823)Cit+(-0.1903)Met+(0.0051)Lys+(0.1285)Phe+(-0.1529)Trp;0.823,0.850,0.788,0.777,0.820,0.800,0.743,0.785,(4.0221)+(0.0032)Gly+(-0.1306)Cit+(0.0450)Orn+(0.0006)Leu+(0.0770)Phe+(-0.1815)Trp;0.823,0.847,0.789,0.774,0.749,0.860,0.862,0.811,(3.7060)+(0.0074)Gln+(-0.1243)His+(-0.0069)Ala+(-0.0030)Lys+(0.1156)Ile+(-0.0407)Leu;0.823,0.852,0.773,0.766,0.750,0.822,0.806,0.786,(3.2826)+(0.0285)Ser+(-0.0077)Ala+(0.0107)Pro+(-0.0237)Val+(0.0507)Leu+(-0.1520)Trp;0.823,0.850,0.808,0.806,0.842,0.845,0.717,0.803,(7.4015)+(0.0215)Thr+(-0.0978)Cit+(-0.0053)Arg+(-0.1372)Met+(0.0475)Orn+(-0.1456)Trp;0.8

23,0.846,0.775,0.762,0.724,0.849,0.865,0.800,(4.1945)+(0.0055)Gln+(-0.1059)His+(-0.0061)Ala+(-0.0120)Tyr+(-0.0298)Val+(0.1295)Ile;0.823,0.854,0.842,0.849,0.836,0.836,0.840,0.840,(3.2529)+(0.0060)Gln+(-0.0057)Ala+(-0.0961)Cit+(-0.0065)Lys+(0.1061)Phe+(-0.1658)Trp;0.823,0.848,0.778,0.756,0.804,0.813,0.760,0.783,(5.1807)+(0.0037)Gly+(-0.1181)Cit+(0.0000)Pro+(0.0385)Orn+(0.0538)Ile+(-0.1802)Trp;0.823,0.847,0.722,0.693,0.703,0.824,0.767,0.747,(2.7718)+(0.0360)Ser+(-0.1285)His+(-0.0005)Pro+(-0.0231)Tyr+(0.1069)Ile+(-0.0334)Leu;0.823,0.851,0.799,0.810,0.794,0.831,0.758,0.798,(3.8922)+(0.0356)Ser+(-0.1285)Asn+(0.0032)Gln+(0.0037)Thr+(0.0067)Pro+(-0.1397)Trp;0.823,0.850,0.807,0.824,0.819,0.851,0.708,0.800,(4.2824)+(0.0272)Ser+(0.0034)Gln+(0.0191)Thr+(-0.0180)Arg+(-0.1823)Met+(-0.1413)Trp;0.823,0.849,0.793,0.803,0.810,0.848,0.694,0.789,(4.6863)+(0.0310)Ser+(0.0161)Thr+(-0.0182)Arg+(-0.1743)Met+(0.0213)Orn+(-0.1390)Trp;0.823,0.847,0.727,0.693,0.709,0.825,0.784,0.753,(0.9511)+(0.0443)Ser+(-0.1567)His+(-0.0049)Ala+(-0.0138)Val+(0.0287)Leu+(0.0901)Phe;0.823,0.859,0.809,0.798,0.817,0.813,0.821,0.812,(6.4625)+(-0.0899)His+(-0.0523)Cit+(-0.0143)Tyr+(0.0025)Val+(0.1191)Phe+(-0.1236)Trp;0.823,0.852,0.721,0.680,0.703,0.831,0.792,0.751,(2.8314)+(0.0359)Ser+(-0.1160)His+(-0.0293)Val+(0.0203)Orn+(-0.0126)Lys+(0.1246)Ile;0.823,0.852,0.802,0.792,0.828,0.803,0.775,0.799,(3.5657)+(0.0028)Gln+(-0.1282)Cit+(0.0023)Pro+(0.0407)Orn+(0.0715)Phe+(-0.1862)Trp;0.823,0.851,0.746,0.732,0.669,0.848,0.871,0.780,(-0.5620)+(0.0326)Ser+(-0.0113)Ala+(-0.0518)Val+(-0.0235)Lys+(0.1772)Ile+(0.0570)Phe;0.823,0.851,0.768,0.748,0.743,0.810,0.843,0.786,(4.2166)+(-0.0361)Asn+(-0.1138)His+(-0.0050)Pro+(0.1160)Ile+(-0.0604)Leu+(0.0787)Phe;0.823,0.848,0.776,0.749,0.767,0.819,0.833,0.792,(2.2996)+(-0.0993)Asn+(0.0102)Gln+(-0.1659)His+(0.0133)Thr+(0.0261)Ile+(0.0613)Phe;0.823,0.845,0.760,0.725,0.758,0.841,0.798,0.780,(2.4107)+(0.0428)Ser+(-0.0060)Gly+(0.

0069)Gln+(-0.1619)His+(-0.0123)Lys+(0.0236)Leu;0.823,0.854,0.835,0.83
9,0.856,0.862,0.764,0.830,(5.6921)+(0.0056)Gln+(0.0235)Thr+(-0.0694)C
it+(0.0228)Tyr+(-0.2010)Met+(-0.1528)Trp;0.823,0.852,0.815,0.815,0.82
6,0.817,0.790,0.812,(4.7532)+(0.0219)Thr+(-0.0069)Ala+(-0.0893)Cit+(-
0.0109)Arg+(0.1056)Phe+(-0.1777)Trp;0.823,0.851,0.721,0.682,0.727,0.8
14,0.744,0.742,(1.1459)+(0.0458)Ser+(-0.1631)His+(0.0013)Thr+(0.0159)
Orn+(-0.0146)Lys+(0.0995)Phe;0.823,0.851,0.788,0.767,0.797,0.833,0.79
1,0.797,(7.6165)+(0.0033)Gly+(-0.1048)His+(-0.0030)Ala+(0.0315)Orn+(0
.0240)Leu+(-0.1099)Trp;0.823,0.851,0.782,0.763,0.755,0.865,0.832,0.80
4,(4.8015)+(-0.0700)Cit+(-0.0489)Val+(-0.2536)Met+(0.0423)Orn+(0.1978
)Ile+(-0.0209)Leu;0.823,0.845,0.727,0.705,0.716,0.793,0.763,0.744,(1.
0976)+(0.0507)Ser+(-0.0045)Gly+(-0.1546)His+(-0.0491)Tyr+(0.0047)Leu+
(0.1113)Phe;0.823,0.852,0.804,0.804,0.824,0.800,0.770,0.799,(4.8202)+
(-0.0656)Asn+(0.0059)Gly+(-0.0946)Cit+(0.0060)Pro+(0.0960)Phe+(-0.162
0)Trp;0.823,0.855,0.808,0.819,0.813,0.849,0.739,0.805,(4.8069)+(0.039
9)Ser+(-0.0653)Asn+(-0.0109)Arg+(-0.0903)Met+(0.0275)Orn+(-0.1278)Trp
;0.823,0.854,0.841,0.841,0.852,0.823,0.831,0.837,(5.3001)+(-0.0129)As
n+(-0.0028)Ala+(-0.0736)Cit+(-0.1229)Met+(0.1232)Phe+(-0.1461)Trp;0.8
23,0.850,0.792,0.780,0.805,0.835,0.767,0.797,(4.3507)+(0.0305)Ser+(0.
0064)Thr+(-0.0052)Ala+(-0.0819)Cit+(0.0239)Leu+(-0.1674)Trp;0.823,0.8
51,0.715,0.695,0.706,0.795,0.732,0.732,(0.9375)+(0.0408)Ser+(-0.1605)
His+(0.0038)Thr+(-0.0505)Tyr+(0.0156)Orn+(0.1127)Phe;0.823,0.850,0.81
4,0.808,0.837,0.852,0.753,0.812,(7.6478)+(0.0131)Thr+(-0.0052)Ala+(-0
.1174)Cit+(0.0594)Orn+(-0.0071)Lys+(-0.1467)Trp;0.823,0.846,0.725,0.6
94,0.705,0.826,0.772,0.750,(2.6747)+(0.0379)Ser+(-0.1260)His+(-0.0038
)Thr+(-0.0211)Tyr+(0.1090)Ile+(-0.0351)Leu;0.823,0.860,0.799,0.793,0.
786,0.805,0.837,0.805,(1.0726)+(0.0397)Ser+(-0.0070)Gly+(-0.0068)Ala+
(0.0044)Leu+(0.0782)Phe+(-0.1663)Trp;0.823,0.856,0.828,0.833,0.827,0.

808,0.833,0.825,(4.2387)+(-0.0141)Asn+(-0.0051)Ala+(0.0109)Pro+(-0.1849)Met+(0.1094)Phe+(-0.1383)Trp;0.823,0.851,0.739,0.726,0.729,0.814,0.739,0.752,(1.2544)+(0.0496)Ser+(-0.1479)His+(-0.0023)Ala+(-0.0206)Arg+(-0.0371)Tyr+(0.1263)Phe;0.823,0.850,0.721,0.689,0.706,0.826,0.760,0.745,(2.8002)+(0.0340)Ser+(-0.1311)His+(-0.0280)Tyr+(0.0160)Orn+(0.1031)Ile+(-0.0338)Leu;0.823,0.847,0.746,0.725,0.745,0.819,0.750,0.760,(-0.2252)+(0.0413)Ser+(0.0070)Gln+(-0.1751)His+(-0.0296)Arg+(-0.0026)Val+(0.1035)Phe;0.823,0.855,0.798,0.802,0.786,0.767,0.833,0.797,(2.8069)+(0.0016)Gln+(0.0033)Pro+(-0.0266)Val+(0.0395)Leu+(0.0749)Phe+(-0.1763)Trp;0.823,0.855,0.798,0.792,0.798,0.818,0.797,0.801,(3.9107)+(0.0044)Gln+(0.0231)Thr+(-0.2550)Met+(-0.0044)Lys+(0.0679)Ile+(-0.1546)Trp;0.823,0.852,0.820,0.801,0.813,0.847,0.862,0.831,(6.7996)+(-0.0169)Asn+(-0.0080)Ala+(-0.0789)Cit+(0.0127)Tyr+(0.0786)Ile+(-0.1591)Trp;0.823,0.851,0.788,0.793,0.788,0.827,0.745,0.788,(4.3054)+(0.0385)Ser+(-0.1185)Asn+(0.0020)Thr+(0.0063)Pro+(0.0152)Orn+(-0.1375)Trp;0.823,0.851,0.774,0.776,0.716,0.821,0.857,0.792,(4.0763)+(-0.1467)Asn+(-0.0500)Tyr+(-0.0600)Val+(0.0287)Orn+(0.1629)Ile+(0.0806)Phe;0.823,0.851,0.793,0.780,0.797,0.839,0.785,0.800,(4.3080)+(0.0329)Ser+(-0.0043)Ala+(-0.0722)Cit+(-0.0139)Val+(0.0456)Leu+(-0.1605)Trp;0.823,0.852,0.778,0.764,0.802,0.817,0.740,0.781,(3.5622)+(0.0315)Ser+(0.0013)Gln+(-0.0901)Cit+(0.0070)Pro+(0.0141)Leu+(-0.1782)Trp;0.823,0.851,0.731,0.682,0.733,0.832,0.785,0.758,(2.9052)+(0.0499)Ser+(-0.0745)Asn+(-0.0028)Gly+(-0.1392)His+(0.0131)Orn+(0.0537)Ile;0.823,0.852,0.779,0.758,0.754,0.856,0.829,0.799,(6.0984)+(0.0054)Gly+(-0.0618)His+(-0.0364)Cit+(-0.0405)Val+(-0.2051)Met+(0.1686)Ile;0.823,0.848,0.780,0.769,0.743,0.834,0.848,0.798,(2.2339)+(0.0082)Gln+(-0.1551)His+(-0.0053)Ala+(-0.0391)Tyr+(0.0440)Ile+(0.0751)Phe;0.823,0.846,0.762,0.733,0.776,0.823,0.769,0.775,(3.0237)+(0.0099)Gly+(-0.1247)His+(-0.0500)Cit+(-0.2457)Met+(0.05

49)Ile+(0.1127)Phe;0.823,0.861,0.777,0.767,0.779,0.759,0.810,0.779,(0.8321)+(0.0397)Ser+(-0.0080)Gly+(0.0022)Pro+(-0.0027)Orn+(0.0660)Phe+(-0.1785)Trp;0.823,0.858,0.827,0.835,0.823,0.804,0.831,0.823,(4.0560)+(-0.0043)Ala+(0.0123)Pro+(-0.0069)Val+(-0.2008)Met+(0.1207)Phe+(-0.1325)Trp;0.823,0.846,0.811,0.797,0.840,0.834,0.769,0.810,(5.6792)+(0.0047)Gln+(-0.1237)Cit+(0.0529)Orn+(-0.0118)Lys+(0.0155)Leu+(-0.1692)Trp;0.823,0.852,0.779,0.755,0.792,0.828,0.779,0.789,(8.0954)+(-0.0980)His+(0.0258)Thr+(-0.0404)Cit+(-0.0173)Val+(0.0533)Leu+(-0.1278)Trp;0.823,0.851,0.802,0.796,0.758,0.877,0.857,0.822,(3.2140)+(0.0057)Gln+(-0.0558)Cit+(-0.0442)Val+(-0.2856)Met+(0.2028)Ile+(-0.0240)Leu;0.823,0.850,0.785,0.762,0.806,0.826,0.772,0.791,(8.2551)+(-0.0976)His+(0.0253)Thr+(-0.0458)Cit+(-0.0033)Lys+(0.0280)Leu+(-0.1295)Trp;0.823,0.858,0.802,0.779,0.815,0.814,0.829,0.809,(6.2479)+(-0.0955)His+(-0.0560)Cit+(0.0050)Arg+(0.0120)Leu+(0.1037)Phe+(-0.1337)Trp;0.823,0.854,0.805,0.797,0.834,0.810,0.760,0.800,(4.9258)+(0.0216)Thr+(-0.0971)Cit+(-0.0061)Arg+(-0.0111)Lys+(0.1007)Phe+(-0.1813)Trp;0.823,0.855,0.805,0.800,0.808,0.861,0.772,0.810,(6.4152)+(0.0456)Ser+(-0.0043)Gly+(-0.0725)His+(-0.0285)Cit+(-0.0471)Met+(-0.0956)Trp;0.823,0.851,0.799,0.800,0.799,0.835,0.774,0.802,(3.8251)+(0.0443)Ser+(-0.0598)Asn+(-0.0015)Ala+(-0.1233)Met+(0.0244)Leu+(-0.1397)Trp;0.823,0.849,0.757,0.734,0.706,0.864,0.845,0.787,(2.8488)+(0.0493)Ser+(-0.1964)Asn+(-0.0055)Gly+(-0.0594)Val+(0.0274)Orn+(0.1727)Ile;0.823,0.847,0.727,0.712,0.722,0.799,0.725,0.739,(1.0888)+(0.0496)Ser+(-0.1526)His+(-0.0211)Arg+(-0.0429)Tyr+(0.0039)Leu+(0.1217)Phe;0.823,0.855,0.770,0.765,0.738,0.824,0.809,0.784,(6.0771)+(0.0201)Thr+(-0.0320)Arg+(-0.0121)Tyr+(-0.0451)Val+(0.1640)Ile+(-0.1335)Trp;0.823,0.851,0.782,0.779,0.710,0.849,0.889,0.807,(2.5059)+(-0.0106)Ala+(-0.0761)Cit+(-0.0467)Tyr+(-0.0508)Val+(0.1740)Ile+(0.0784)Phe;0.823,0.858,0.809,0.829,0.807,0.781,0.780,0.799,(5.0072

)+(-0.1105)Asn+(0.0269)Thr+(-0.0402)Tyr+(-0.0101)Val+(0.1144)Phe+(-0.1382)Trp;0.823,0.852,0.819,0.798,0.816,0.847,0.864,0.831,(6.8192)+(-0.0083)Ala+(-0.0819)Cit+(0.0151)Tyr+(-0.0056)Lys+(0.0837)Ile+(-0.1583)Trp;0.823,0.851,0.805,0.818,0.803,0.842,0.750,0.803,(3.8562)+(0.0383)Ser+(-0.1127)Asn+(0.0040)Gln+(-0.0143)Arg+(0.0077)Pro+(-0.1358)Trp;0.823,0.851,0.779,0.769,0.752,0.825,0.829,0.794,(5.8431)+(-0.0257)Arg+(-0.0011)Pro+(-0.0453)Val+(0.0269)Orn+(0.1582)Ile+(-0.1281)Trp;0.823,0.851,0.790,0.779,0.804,0.824,0.769,0.794,(7.8342)+(-0.0213)Asn+(0.0026)Gly+(-0.0892)His+(0.0064)Pro+(0.0326)Orn+(-0.0998)Trp;0.823,0.851,0.795,0.782,0.806,0.818,0.792,0.800,(7.8935)+(-0.0273)Asn+(-0.0915)His+(0.0059)Pro+(0.0298)Orn+(0.0082)Lys+(-0.1078)Trp;0.823,0.849,0.788,0.770,0.802,0.814,0.785,0.793,(7.5479)+(-0.0991)His+(0.0052)Pro+(0.0023)Val+(0.0286)Orn+(0.0060)Lys+(-0.1106)Trp;0.823,0.856,0.788,0.771,0.749,0.852,0.867,0.810,(4.1901)+(-0.0918)His+(-0.0094)Ala+(-0.0639)Cit+(0.1445)Ile+(-0.0690)Leu+(0.0872)Phe;0.823,0.853,0.809,0.800,0.816,0.784,0.835,0.809,(3.5994)+(-0.0050)Asn+(0.0030)Pro+(-0.2384)Met+(0.0495)Ile+(0.0872)Phe+(-0.1522)Trp;0.823,0.851,0.778,0.752,0.787,0.824,0.793,0.789,(7.4383)+(0.0026)Gly+(-0.1032)His+(-0.0200)Val+(0.0343)Orn+(0.0525)Leu+(-0.1094)Trp;0.823,0.848,0.823,0.824,0.820,0.844,0.812,0.825,(5.6441)+(0.0112)Gln+(-0.1195)His+(-0.0204)Arg+(0.0156)Tyr+(0.0087)Lys+(-0.1104)Trp;0.823,0.854,0.820,0.811,0.813,0.814,0.860,0.825,(3.7761)+(-0.0057)Ala+(-0.1982)Met+(-0.0008)Orn+(0.0611)Ile+(0.0876)Phe+(-0.1487)Trp;0.823,0.853,0.
804,0.796,0.810,0.790,0.821,0.804,(3.1247)+(-0.0099)Asn+(0.0030)Gly+(-0.2376)Met+(0.0534)Ile+(0.0897)Phe+(-0.1510)Trp;0.823,0.851,0.815,0.814,0.824,0.818,0.799,0.814,(4.5247)+(0.0188)Thr+(-0.0070)Ala+(-0.0960)Cit+(0.0001)Val+(0.1036)Phe+(-0.1779)Trp;0.823,0.851,0.830,0.836,0.823,0.851,0.814,0.831,(5.6521)+(0.0115)Gln+(-0.1082)His+(-0.0164)Arg+

(-0.0754)Met+(0.0132)Lys+(-0.0999)Trp;0.823,0.849,0.803,0.784,0.823,0.827,0.795,0.807,(6.7438)+(-0.0464)Asn+(-0.1086)Cit+(0.0025)Arg+(0.0427)Orn+(0.0487)Ile+(-0.1662)Trp;0.823,0.851,0.776,0.766,0.742,0.815,0.848,0.793,(5.0161)+(-0.0011)Gly+(-0.0027)Pro+(-0.0419)Val+(0.0142)Orn+(0.1492)Ile+(-0.1378)Trp;0.823,0.851,0.788,0.761,0.789,0.817,0.833,0.800,(7.4845)+(0.0011)Asn+(-0.0945)His+(-0.0041)Arg+(0.0039)Lys+(0.0630)Ile+(-0.1220)Trp;0.823,0.850,0.789,0.759,0.819,0.830,0.778,0.797,(7.9969)+(-0.0803)His+(-0.0782)Cit+(0.0045)Pro+(0.0511)Orn+(0.0171)Leu+(-0.1284)Trp;0.823,0.846,0.811,0.800,0.838,0.835,0.764,0.809,(7.8911)+(-0.0514)Asn+(-0.1099)Cit+(0.0060)Pro+(0.0558)Orn+(-0.0011)Lys+(-0.1488)Trp;0.823,0.851,0.808,0.819,0.807,0.851,0.750,0.807,(4.9256)+(0.0382)Ser+(-0.0899)Asn+(-0.0025)Ala+(-0.0128)Arg+(0.0270)Orn+(-0.1281)Trp;0.823,0.850,0.792,0.782,0.738,0.860,0.880,0.815,(4.9725)+(-0.0073)Ala+(0.0085)Pro+(-0.0483)Val+(-0.2417)Met+(0.1996)Ile+(-0.0149)Leu;0.823,0.849,0.788,0.785,0.807,0.790,0.754,0.784,(4.6706)+(-0.1243)Cit+(0.0048)Pro+(-0.0371)Tyr+(0.0477)Orn+(0.0901)Phe+(-0.1688)Trp;0.823,0.848,0.741,0.716,0.744,0.816,0.748,0.756,(-0.3602)+(0.0419)Ser+(0.0070)Gln+(-0.1787)His+(-0.0301)Arg+(0.0017)Pro+(0.0973)Phe;0.823,0.850,0.784,0.768,0.799,0.818,0.768,0.788,(7.4838)+(0.0025)Gly+(-0.0991)His+(0.0052)Pro+(0.0040)Val+(0.0297)Orn+(-0.1061)Trp;0.823,0.849,0.786,0.780,0.792,0.816,0.768,0.789,(7.8069)+(-0.0967)His+(0.0171)Thr+(0.0060)Pro+(-0.0040)Tyr+(0.0050)Lys+(-0.1111)Trp;0.823,0.849,0.731,0.700,0.721,0.826,0.768,0.754,(0.9034)+(0.0425)Ser+(-0.1595)His+(-0.0049)Ala+(-0.0025)Val+(0.0156)Orn+(0.0981)Phe;0.823,0.851,0.773,0.766,0.738,0.813,0.836,0.788,(5.1556)+(-0.0019)Pro+(-0.0166)Tyr+(-0.0411)Val+(0.0163)Orn+(0.1489)Ile+(-0.1324)Trp;0.823,0.849,0.778,0.770,0.739,0.817,0.850,0.794,(5.3143)+(-0.0004)Gly+(-0.0345)Val+(-0.0024)Lys+(0.1635)Ile+(-0.0200)Leu+(-0.1322)Trp;0.823,0.848,0.781,0.773,0.742,0.821,0.85

0,0.797,(4.9101)+(0.0015)Gln+(-0.0019)Pro+(-0.0396)Val+(-0.0050)Lys+(0.1502)Ile+(-0.1359)Trp;0.823,0.857,0.823,0.820,0.818,0.804,0.856,0.825,(3.0073)+(-0.0849)Asn+(0.0055)Gln+(-0.0066)Lys+(0.0415)Ile+(0.0571)Phe+(-0.1702)Trp;0.823,0.853,0.796,0.789,0.800,0.824,0.784,0.799,(3.1512)+(0.0500)Ser+(-0.0076)Gly+(-0.1892)Met+(0.0176)Orn+(0.0195)Leu+(-0.1463)Trp;0.823,0.852,0.806,0.816,0.802,0.851,0.759,0.807,(4.9611)+(0.0345)Ser+(-0.1060)Asn+(0.0058)Thr+(-0.0030)Ala+(0.0214)Orn+(-0.1333)Trp;0.823,0.850,0.790,0.780,0.726,0.858,0.901,0.816,(3.9074)+(-0.1388)Asn+(-0.0080)Ala+(-0.0610)Val+(0.0242)Orn+(0.1753)Ile+(0.0631)Phe;0.823,0.849,0.712,0.690,0.702,0.792,0.731,0.729,(0.7604)+(0.0427)Ser+(-0.1583)His+(0.0040)Pro+(-0.0518)Tyr+(0.0152)Orn+(0.1098)Phe;0.823,0.847,0.765,0.750,0.705,0.862,0.864,0.795,(2.4316)+(0.0493)Ser+(-0.1915)Asn+(-0.0056)Gly+(0.0021)Gln+(-0.0564)Val+(0.1714)Ile;0.823,0.846,0.737,0.705,0.724,0.822,0.786,0.759,(1.0930)+(0.0480)Ser+(-0.0028)Gly+(-0.1591)His+(0.0010)Thr+(-0.0048)Ala+(0.0971)Phe;0.823,0.856,0.829,0.838,0.814,0.814,0.850,0.829,(4.9866)+(-0.0642)Asn+(-0.0063)Ala+(0.0101)Pro+(-0.0072)Val+(0.0945)Phe+(-0.1396)Trp;0.823,0.854,0.796,0.791,0.797,0.815,0.798,0.800,(3.7836)+(0.0042)Gln+(0.0220)Thr+(0.0011)Pro+(-0.2647)Met+(0.0646)Ile+(-0.1573)Trp;0.823,0.851,0.809,0.801,0.822,0.846,0.779,0.812,(7.4260)+(-0.0081)Ala+(-0.1187)Cit+(0.0128)Pro+(-0.0021)Tyr+(0.0583)Orn+(-0.1480)Trp;0.823,0.851,0.836,0.843,0.831,0.861,0.815,0.837,(6.0036)+(0.0110)Gln+(-0.0929)His+(0.0004)Ala+(-0.0332)Cit+(-0.0496)Met+(-0.0985)Trp;0.823,0.849,0.779,0.770,0.803,0.819,0.723,0.779,(4.1879)+(0.0334)Ser+(-0.0013)Thr+(-0.0850)Cit+(0.0087)Pro+(0.0033)Val+(-0.1674)Trp;0.823,0.855,0.798,0.792,0.796,0.833,0.796,0.804,(5.8321)+(0.0290)Thr+(-0.0055)Ala+(-0.0130)Arg+(-0.1991)Met+(0.0750)Ile+(-0.1491)Trp;0.823,0.854,0.807,0.812,0.827,0.856,0.719,0.803,(4.6374)+(0.0337)Ser+(0.0184)Thr+(-0.0169)Arg+(0.0316)Tyr+(-0.2158)Met+(-

0.1478)Trp;0.823,0.854,0.793,0.779,0.821,0.843,0.737,0.795,(8.3895)+(-0.0802)His+(0.0182)Thr+(-0.0741)Cit+(-0.0072)Arg+(0.0504)Orn+(-0.1177)Trp;0.823,0.853,0.792,0.777,0.818,0.844,0.740,0.795,(8.2078)+(-0.0803)His+(0.0167)Thr+(-0.0788)Cit+(-0.0040)Tyr+(0.0512)Orn+(-0.1163)Trp;0.823,0.848,0.723,0.683,0.712,0.831,0.776,0.751,(2.5031)+(0.0422)Ser+(-0.1282)His+(-0.0042)Thr+(-0.0089)Lys+(0.1062)Ile+(-0.0317)Leu;0.823,0.849,0.800,0.790,0.804,0.831,0.797,0.805,(8.2704)+(-0.0133)Asn+(-0.0832)His+(-0.0039)Ala+(0.0097)Pro+(0.0342)Orn+(-0.0993)Trp;0.823,0.850,0.780,0.759,0.752,0.852,0.842,0.801,(5.9493)+(0.0042)Gly+(-0.0662)His+(-0.0398)Val+(-0.2128)Met+(0.1721)Ile+(-0.0053)Leu;0.823,0.850,0.756,0.740,0.716,0.810,0.842,0.777,(4.2116)+(-0.0956)His+(-0.0417)Cit+(-0.0488)Tyr+(-0.0361)Val+(0.1258)Ile+(0.0949)Phe;0.823,0.850,0.729,0.692,0.719,0.829,0.777,0.754,(0.8425)+(0.0435)Ser+(-0.1638)His+(-0.0057)Ala+(0.0121)Orn+(0.0065)Leu+(0.0887)Phe;0.823,0.852,0.776,0.765,0.743,0.821,0.845,0.793,(5.1852)+(-0.0029)Pro+(-0.0412)Val+(0.0170)Orn+(-0.0059)Lys+(0.1519)Ile+(-0.1325)Trp;0.823,0.852,0.783,0.761,0.756,0.865,0.838,0.805,(4.7435)+(-0.0675)Cit+(0.0014)Pro+(-0.0552)Val+(-0.2639)Met+(0.0417)Orn+(0.1811)Ile;0.823,0.851,0.815,0.819,0.831,0.808,0.774,0.808,(4.9358)+(-0.0629)Asn+(0.0057)Gly+(-0.0906)Cit+(-0.0001)Lys+(0.1013)Phe+(-0.1582)Trp;0.823,0.850,0.771,0.752,0.733,0.823,0.865,0.793,(5.0404)+(-0.0682)Asn+(-0.0836)His+(-0.0114)Arg+(-0.0452)Val+(0.1360)Ile+(0.0797)Phe;0.823,0.849,0.779,0.772,0.740,0.817,0.850,0.795,(5.2188)+(-0.0004)Gly+(-0.0022)Pro+(-0.0339)Val+(0.1672)Ile+(-0.0227)Leu+(-0.1339)Trp;0.823,0.848,0.777,0.773,0.737,0.811,0.843,0.791,(4.9886)+(0.0011)Gln+(-0.0009)Pro+(-0.0130)Tyr+(-0.0396)Val+(0.1481)Ile+(-0.1352)Trp;0.823,0.846,0.781,0.757,0.755,0.852,0.845,0.802,(3.8092)+(0.0079)Gln+(-0.1479)His+(0.0093)Thr+(-0.0064)Ala+(-0.0087)Lys+(0.0598)Ile;0.823,0.858,0.815,0.808,0.805,0.832,0.839,0.821,(1.0904)+(-0.0

171)Asn+(0.0129)Gln+(-0.1516)His+(-0.0113)Tyr+(-0.2074)Met+(0.1271)Phe;0.823,0.851,0.831,0.834,0.825,0.854,0.823,0.834,(5.9429)+(0.0115)Gln+(-0.1142)His+(-0.0012)Ala+(-0.0150)Arg+(0.0225)Tyr+(-0.1056)Trp;0.823,0.848,0.792,0.801,0.725,0.830,0.877,0.809,(2.9730)+(-0.1611)Asn+(0.0043)Gln+(-0.0487)Tyr+(-0.0576)Val+(0.1613)Ile+(0.0862)Phe;0.823,0.857,0.813,0.798,0.814,0.839,0.834,0.821,(0.7293)+(0.0135)Gln+(-0.1486)His+(-0.0405)Cit+(0.0055)Pro+(-0.2506)Met+(0.1261)Phe;0.823,0.854,0.814,0.813,0.818,0.846,0.784,0.815,(3.8530)+(0.0464)Ser+(-0.0075)Gly+(0.0210)Tyr+(-0.1849)Met+(0.0215)Orn+(-0.1422)Trp;0.823,0.848,0.798,0.791,0.744,0.865,0.879,0.820,(4.4806)+(-0.0057)Ala+(-0.0491)Val+(-0.2629)Met+(0.0089)Lys+(0.2144)Ile+(-0.0218)Leu;0.823,0.848,0.738,0.703,0.740,0.838,0.756,0.759,(1.3733)+(0.0369)Ser+(0.0068)Gln+(-0.1641)His+(-0.0272)Arg+(0.0060)Orn+(0.0536)Ile;0.823,0.843,0.759,0.750,0.688,0.851,0.865,0.789,(1.5599)+(0.0395)Ser+(-0.0073)Gly+(-0.0100)Ala+(-0.0303)Arg+(-0.0553)Val+(0.1878)Ile;0.823,0.852,0.771,0.750,0.732,0.823,0.870,0.794,(4.8391)+(-0.0851)Asn+(-0.0855)His+(-0.0443)Val+(0.0016)Lys+(0.1317)Ile+(0.0766)Phe;0.823,0.856,0.802,0.794,0.808,0.785,0.821,0.802,(2.9256)+(0.0028)Gly+(0.0030)Pro+(-0.2556)Met+(0.0511)Ile+(0.0904)Phe+(-0.1521)Trp;0.823,0.849,0.727,0.688,0.723,0.836,0.761,0.752,(2.8165)+(0.0422)Ser+(-0.1171)His+(-0.0471)Cit+(-0.0102)Lys+(0.1124)Ile+(-0.0341)Leu;0.823,0.856,0.807,0.813,0.807,0.801,0.797,0.805,(4.0336)+(0.0178)Thr+(-0.0088)Ala+(-0.0265)Arg+(0.0079)Pro+(0.0895)Phe+(-0.1708)Trp;0.823,0.851,0.811,0.790,0.795,0.867,0.859,0.828,(3.2155)+(0.0121)Gln+(-0.1234)His+(-0.0053)Ala+(-0.0547)Cit+(-0.1657)Met+(0.0776)Ile;0.823,0.847,0.777,0.785,0.715,0.813,0.861,0.794,(3.7409)+(-0.1246)Asn+(-0.0524)Tyr+(-0.0476)Val+(0.1856)Ile+(-0.0326)Leu+(0.0951)Phe;0.823,0.844,0.724,0.686,0.709,0.826,0.779,0.750,(2.2555)+(0.0401)Ser+(-0.1309)His+(-0.0072)Thr+(-0.0018)Pro+(0.1112)Ile+(-0.0377)Leu;0.823,0.

849,0.787,0.781,0.799,0.821,0.755,0.789,(8.2501)+(-0.0964)His+(0.0212)Thr+(-0.0178)Arg+(0.0063)Pro+(0.0079)Lys+(-0.1145)Trp;0.823,0.853,0.780,0.765,0.793,0.829,0.754,0.785,(4.1773)+(0.0303)Ser+(0.0051)Thr+(-0.0772)Cit+(-0.0165)Val+(0.0434)Leu+(-0.1721)Trp;0.823,0.855,0.770,0.739,0.768,0.844,0.805,0.789,(5.9436)+(-0.1262)His+(0.0302)Thr+(-0.0047)Ala+(-0.2237)Met+(0.0133)Orn+(0.0723)Ile;0.823,0.858,0.814,0.807,0.805,0.834,0.837,0.821,(1.0118)+(0.0125)Gln+(-0.1519)His+(-0.0082)Tyr+(-0.0023)Val+(-0.2227)Met+(0.1315)Phe;0.823,0.855,0.820,0.811,0.814,0.815,0.859,0.825,(3.7826)+(-0.0057)Ala+(-0.1978)Met+(-0.0002)Lys+(0.0610)Ile+(0.0872)Phe+(-0.1485)Trp;0.823,0.852,0.806,0.797,0.830,0.809,0.776,0.803,(3.5674)+(0.0029)Gln+(-0.1276)Cit+(0.0418)Orn+(-0.0005)Leu+(0.0737)Phe+(-0.1845)Trp;0.823,0.844,0.723,0.687,0.695,0.831,0.795,0.752,(2.0835)+(0.0320)Ser+(0.0020)Gln+(-0.1283)His+(-0.0261)Val+(0.1183)Ile+(-0.0049)Leu;0.823,0.853,0.777,0.770,0.748,0.823,0.825,0.791,(5.9766)+(-0.0249)Arg+(-0.0098)Tyr+(-0.0447)Val+(0.0277)Orn+(0.1568)Ile+(-0.1246)Trp;0.823,0.849,0.799,0.781,0.824,0.838,0.767,0.802,(8.3405)+(-0.0656)His+(-0.0785)Cit+(0.0078)Pro+(-0.0411)Met+(0.0550)Orn+(-0.1131)Trp;0.823,0.856,0.793,0.794,0.784,0.765,0.829,0.793,(3.2695)+(0.0005)Gly+(0.0038)Pro+(-0.0274)Val+(0.0412)Leu+(0.0769)Phe+(-0.1736)Trp;0.823,0.855,0.845,0.841,0.845,0.870,0.834,0.848,(5.8022)+(0.0115)Gln+(-0.0987)His+(-0.0345)Cit+(0.0344)Tyr+(-0.0969)Met+(-0.1080)Trp;0.823,0.853,0.813,0.805,0.793,0.820,0.871,0.822,(4.4308)+(-0.0490)Asn+(-0.0093)Ala+(0.0051)Pro+(0.0503)Ile+(0.0616)Phe+(-0.1603)Trp;0.823,0.853,0.807,0.796,0.767,0.877,0.869,0.827,(2.9862)+(0.0056)Gln+(-0.0513)Cit+(0.0159)Tyr+(-0.0531)Val+(-0.3231)Met+(0.1889)Ile;0.823,0.848,0.827,0.832,0.820,0.851,0.814,0.829,(5.9068)+(0.0098)Gln+(-0.0998)His+(-0.0009)Ala+(-0.0353)Cit+(0.0057)Lys+(-0.1063)Trp;0.823,0.846,0.726,0.707,0.714,0.792,0.754,0.742,(1.3001)+(0.0479)Ser+(-0.0051)Gly+(-0.1

565)His+(0.0084)Thr+(-0.0545)Tyr+(0.1163)Phe;0.823,0.854,0.827,0.826,0.828,0.858,0.806,0.830,(4.9445)+(0.0503)Ser+(-0.0593)Asn+(-0.0066)Gly+(0.0279)Tyr+(-0.1273)Met+(-0.1376)Trp;0.823,0.851,0.793,0.782,0.739,0.861,0.887,0.817,(5.5260)+(-0.0280)Asn+(-0.0071)Ala+(0.0090)Pro+(-0.0535)Val+(-0.2181)Met+(0.1887)Ile;0.823,0.849,0.783,0.776,0.806,0.819,0.727,0.782,(3.8230)+(0.0305)Ser+(0.0016)Gln+(-0.0881)Cit+(0.0082)Pro+(0.0032)Val+(-0.1707)Trp;0.822,0.858,0.809,0.797,0.803,0.834,0.831,0.816,(1.0053)+(0.0119)Gln+(-0.1542)His+(-0.0121)Tyr+(-0.2191)Met+(0.0115)Orn+(0.1241)Phe;0.822,0.849,0.731,0.697,0.722,0.828,0.773,0.755,(0.8419)+(0.0439)Ser+(-0.1604)His+(-0.0024)Thr+(-0.0052)Ala+(0.0150)Orn+(0.0954)Phe;0.822,0.847,0.779,0.765,0.736,0.849,0.855,0.801,(4.6948)+(-0.1264)Asn+(0.0077)Gln+(-0.0984)His+(0.0154)Thr+(-0.0372)Val+(0.1309)Ile;0.822,0.844,0.761,0.735,0.718,0.839,0.860,0.788,(5.2590)+(-0.0930)His+(-0.0075)Ala+(0.0031)Pro+(-0.0364)Val+(0.0255)Orn+(0.1361)Ile;0.822,0.852,0.810,0.815,0.824,0.853,0.739,0.808,(5.0709)+(0.0359)Ser+(-0.0585)Cit+(-0.0022)Arg+(-0.1183)Met+(0.0056)Lys+(-0.1361)Trp;0.822,0.851,0.749,0.716,0.749,0.847,0.764,0.769,(3.1645)+(0.0500)Ser+(-0.1266)His+(-0.0052)Ala+(0.0136)Pro+(-0.1843)Met+(0.0283)Leu;0.822,0.848,0.743,0.717,0.735,0.836,0.760,0.762,(1.7024)+(0.0366)Ser+(0.0069)Gln+(-0.1558)His+(-0.0255)Arg+(-0.0194)Tyr+(0.0599)Ile;0.822,0.846,0.731,0.713,0.717,0.794,0.762,0.747,(1.1639)+(0.0505)Ser+(-0.0046)Gly+(-0.1510)His+(-0.0479)Tyr+(-0.0011)Val+(0.1179)Phe;0.822,0.858,0.823,0.824,0.847,0.819,0.775,0.816,(3.8279)+(0.0061)Gly+(-0.0843)Cit+(0.0127)Tyr+(-0.1899)Met+(0.1269)Phe+(-0.1522)Trp;0.822,0.852,0.788,0.762,0.790,0.815,0.833,0.800,(7.4810)+(-0.0943)His+(-0.0043)Arg+(0.0009)Pro+(0.0040)Lys+(0.0619)Ile+(-0.1222)Trp;0.822,0.851,0.802,0.801,0.796,0.826,0.800,0.805,(4.9205)+(0.0504)Ser+(-0.1018)Asn+(-0.0075)Gly+(0.0089)Pro+(-0.0076)Tyr+(-0.1356

)Trp;0.822,0.853,0.806,0.800,0.791,0.832,0.833,0.814,(6.3346)+(0.0026)Asn+(-0.0070)Arg+(-0.1383)Met+(0.1546)Ile+(-0.0634)Leu+(-0.1231)Trp;0.822,0.846,0.750,0.727,0.726,0.806,0.821,0.770,(1.4920)+(0.0018)Gly+(0.0065)Gln+(-0.1535)His+(0.0926)Ile+(-0.0479)Leu+(0.0688)Phe;0.822,0.853,0.825,0.824,0.835,0.812,0.818,0.822,(3.1617)+(0.0057)Gln+(-0.1008)Cit+(-0.0105)Lys+(0.0083)Leu+(0.0900)Phe+(-0.1789)Trp;0.822,0.848,0.784,0.769,0.744,0.857,0.853,0.806,(5.2466)+(-0.0523)Asn+(-0.0555)Val+(-0.2359)Met+(0.0312)Orn+(0.1948)Ile+(-0.0091)Leu;0.822,0.845,0.798,0.787,0.832,0.834,0.733,0.796,(7.0571)+(0.0092)Thr+(-0.1171)Cit+(0.0049)Pro+(0.0530)Orn+(-0.0083)Lys+(-0.1601)Trp;0.822,0.858,0.811,0.803,0.803,0.831,0.834,0.818,(0.7834)+(0.0123)Gln+(-0.1571)His+(-0.0111)Tyr+(-0.2321)Met+(0.0042)Lys+(0.1286)Phe;0.822,0.845,0.731,0.702,0.718,0.823,0.769,0.753,(0.9516)+(0.0442)Ser+(-0.1596)His+(0.0006)Thr+(-0.0047)Ala+(-0.0008)Val+(0.1003)Phe;0.822,0.857,0.841,0.856,0.846,0.802,0.823,0.832,(1.5990)+(0.0009)Gly+(0.0068)Gln+(-0.0108)Arg+(-0.2321)Met+(0.1153)Phe+(-0.1486)Trp;0.822,0.854,0.820,0.810,0.818,0.843,0.835,0.827,(0.8972)+(0.0135)Gln+(-0.1482)His+(-0.0397)Cit+(-0.0015)Val+(-0.2303)Met+(0.1314)Phe;0.822,0.848,0.785,0.785,0.765,0.802,0.814,0.792,(5.4554)+(-0.0017)Gly+(0.0055)Thr+(-0.0241)Tyr+(0.1395)Ile+(-0.0625)Leu+(-0.1400)Trp;0.822,0.847,0.737,0.706,0.733,0.829,0.762,0.757,(1.0718)+(0.0497)Ser+(-0.1569)His+(-0.0048)Ala+(-0.0206)Arg+(0.0068)Leu+(0.1013)Phe;0.822,0.855,0.824,0.840,0.819,0.856,0.771,0.821,(3.7085)+(0.0360)Ser+(-0.0777)Asn+(0.0048)Gln+(0.0033)Val+(-0.1047)Met+(-0.1371)Trp;0.822,0.854,0.805,0.803,0.806,0.815,0.800,0.806,(4.2965)+(0.0045)Gly+(-0.0091)Ala+(-0.1012)Cit+(0.0129)Pro+(0.1031)Phe+(-0.1652)Trp;0.822,0.849,0.801,0.791,0.805,0.833,0.793,0.805,(8.1963)+(-0.0800)His+(-0.0035)Ala+(0.0105)Pro+(-0.0477)Met+(0.0346)Orn+(-0.0969)Trp;0.822,0.854,0.811,0.809,0.827,0.850,0.757,0.811,(8.9868)+(-0.0834)His+(0.03

32)Thr+(-0.0100)Arg+(0.0249)Tyr+(-0.1418)Met+(-0.1094)Trp;0.822,0.853,0.755,0.734,0.753,0.855,0.739,0.770,(3.9213)+(0.0421)Ser+(-0.1164)His+(-0.0046)Ala+(0.0147)Pro+(-0.1542)Met+(0.0270)Orn;0.822,0.850,0.795,0.779,0.808,0.822,0.787,0.799,(8.0206)+(-0.0135)Asn+(-0.0909)His+(0.0056)Pro+(0.0026)Val+(0.0320)Orn+(-0.1048)Trp;0.822,0.850,0.752,0.731,0.714,0.813,0.846,0.776,(2.2359)+(0.0051)Gln+(-0.1336)His+(-0.0262)Val+(0.1156)Ile+(-0.0192)Leu+(0.0645)Phe;0.822,0.854,0.795,0.778,0.806,0.852,0.775,0.803,(5.9460)+(0.0440)Ser+(-0.0034)Gly+(-0.0862)His+(-0.0349)Cit+(0.0208)Tyr+(-0.1094)Trp;0.822,0.852,0.802,0.799,0.800,0.855,0.777,0.808,(6.3494)+(0.0468)Ser+(-0.0052)Gly+(-0.0790)His+(-0.0059)Arg+(-0.0458)Met+(-0.0919)Trp;0.822,0.852,0.796,0.784,0.805,0.840,0.775,0.801,(4.5550)+(0.0361)Ser+(-0.0043)Ala+(-0.0785)Cit+(-0.0085)Lys+(0.0292)Leu+(-0.1577)Trp;0.822,0.847,0.763,0.738,0.722,0.840,0.863,0.791,(5.4635)+(-0.0905)His+(-0.0067)Ala+(-0.0363)Val+(0.0286)Orn+(-0.0037)Lys+(0.1399)Ile;0.822,0.850,0.781,0.768,0.740,0.857,0.846,0.803,(5.1134)+(-0.0608)Asn+(0.0020)Gly+(-0.0583)Val+(-0.2355)Met+(0.0304)Orn+(0.1890)Ile;0.822,0.850,0.800,0.773,0.821,0.842,0.799,0.809,(8.5242)+(-0.0762)His+(-0.0043)Ala+(-0.0839)Cit+(0.0575)Orn+(0.0227)Leu+(-0.1219)Trp;0.822,0.856,0.844,0.858,0.840,0.811,0.838,0.837,(1.6440)+(0.0009)Gly+(0.0061)Gln+(-0.0024)Ala+(-0.2264)Met+(0.1149)Phe+(-0.1468)Trp;0.822,0.854,0.821,0.811,0.817,0.847,0.838,0.828,(0.9519)+(0.0135)Gln+(-0.1479)His+(-0.0011)Ala+(-0.0412)Cit+(-0.2236)Met+(0.1294)Phe;0.822,0.853,0.831,0.829,0.849,0.806,0.817,0.825,(5.0868)+(-0.0119)Asn+(-0.0741)Cit+(-0.1475)Met+(0.0064)Leu+(0.1151)Phe+(-0.1533)Trp;0.822,0.853,0.821,0.826,0.824,0.859,0.777,0.822,(4.4301)+(0.0405)Ser+(-0.0662)Asn+(0.0308)Tyr+(-0.1483)Met+(0.0061)Lys+(-0.1428)Trp;0.822,0.853,0.795,0.778,0.812,0.825,0.785,0.800,(5.9417)+(0.0053)Gly+(-0.0770)Cit+(0.0042)Pro+(-0.1315)Met+(0.0691)Ile+(-0.1532)Trp;0.822,0.849,0.782,

0.766,0.796,0.818,0.771,0.788,(7.2462)+(0.0022)Gly+(-0.0998)His+(0.0058)Pro+(0.0287)Orn+(0.0066)Lys+(-0.1074)Trp;0.822,0.847,0.789,0.769,0.772,0.831,0.850,0.805,(2.1231)+(-0.0772)Asn+(0.0113)Gln+(-0.1621)His+(-0.0040)Pro+(0.0334)Ile+(0.0603)Phe;0.822,0.859,0.814,0.804,0.821,0.818,0.822,0.816,(6.5741)+(-0.0082)Asn+(-0.0863)His+(-0.0511)Cit+(-0.0126)Tyr+(0.1220)Phe+(-0.1201)Trp;0.822,0.855,0.782,0.784,0.803,0.824,0.705,0.779,(3.7508)+(0.0357)Ser+(0.0195)Thr+(-0.0144)Arg+(-0.2204)Met+(0.0233)Leu+(-0.1511)Trp;0.822,0.848,0.763,0.733,0.770,0.815,0.792,0.778,(3.0585)+(0.0079)Gly+(-0.1335)His+(0.0005)Arg+(-0.2533)Met+(0.0525)Ile+(0.1080)Phe;0.822,0.841,0.765,0.748,0.717,0.841,0.858,0.791,(5.3612)+(0.0018)Gly+(-0.0868)His+(-0.0067)Ala+(-0.0312)Val+(0.1504)Ile+(-0.0119)Leu;0.822,0.862,0.822,0.812,0.824,0.832,0.838,0.827,(6.6204)+(-0.0852)His+(-0.0030)Ala+(-0.0535)Cit+(-0.0066)Tyr+(0.1255)Phe+(-0.1203)Trp;0.822,0.856,0.840,0.839,0.837,0.863,0.831,0.842,(5.7491)+(0.0122)Gln+(-0.1092)His+(-0.0110)Arg+(0.0341)Tyr+(-0.0912)Met+(-0.1042)Trp;0.822,0.856,0.793,0.783,0.773,0.809,0.854,0.805,(3.2219)+(0.0074)Thr+(-0.0110)Ala+(0.0038)Pro+(0.0533)Ile+(0.0553)Phe+(-0.1767)Trp;0.822,0.854,0.821,0.820,0.814,0.791,0.857,0.821,(2.9124)+(-0.0951)Asn+(0.0055)Gln+(-0.0047)Orn+(0.0390)Ile+(0.0555)Phe+(-0.1738)Trp;0.822,0.847,0.732,0.690,0.738,0.836,0.758,0.756,(3.2453)+(0.0498)Ser+(-0.0576)Asn+(-0.1227)His+(-0.0398)Cit+(-0.0090)Lys+(0.0668)Ile;0.822,0.847,0.762,0.742,0.719,0.837,0.851,0.787,(5.5721)+(-0.0903)His+(-0.0061)Ala+(-0.0179)Tyr+(-0.0356)Val+(0.0297)Orn+(0.1386)Ile;0.822,0.854,0.797,0.766,0.805,0.829,0.840,0.810,(7.1790)+(0.0296)Asn+(-0.0864)His+(0.0201)Tyr+(-0.1394)Met+(0.0738)Ile+(-0.1176)Trp;0.822,0.851,0.804,0.785,0.783,0.861,0.857,0.821,(3.3388)+(-0.0024)Asn+(0.0108)Gln+(-0.1346)His+(-0.0041)Ala+(-0.1703)Met+(0.0704)Ile;0.822,0.849,0.751,0.719,0.771,0.828,0.736,0.764,(5.5431)+(0.0054)Gly+(-0.1200)His+(0.0314)Thr+(-

0.0500)Cit+(-0.2528)Met+(0.0751)Ile;0.822,0.848,0.803,0.794,0.815,0.844,0.772,0.806,(8.6917)+(-0.0882)His+(0.0243)Thr+(-0.0033)Ala+(-0.0488)Cit+(0.0108)Val+(-0.1214)Trp;0.822,0.856,0.799,0.787,0.803,0.798,0.825,0.803,(4.7796)+(-0.0935)Cit+(-0.0248)Tyr+(-0.0098)Lys+(0.0580)Ile+(0.0882)Phe+(-0.1705)Trp;0.822,0.854,0.837,0.836,0.844,0.822,0.832,0.834,(4.6994)+(-0.0029)Ala+(-0.0815)Cit+(0.0114)Arg+(-0.1507)Met+(0.1258)Phe+(-0.1493)Trp;0.822,0.853,0.823,0.827,0.825,0.866,0.777,0.824,(4.6364)+(0.0412)Ser+(-0.0603)Asn+(-0.0008)Ala+(0.0327)Tyr+(-0.1298)Met+(-0.1371)Trp;0.822,0.850,0.707,0.661,0.715,0.806,0.740,0.731,(0.3671)+(0.0495)Ser+(-0.1671)His+(0.0019)Thr+(-0.0254)Arg+(0.0384)Ile+(0.0781)Phe;0.822,0.850,0.797,0.791,0.810,0.829,0.760,0.798,(8.8396)+(-0.0244)Asn+(-0.0950)His+(0.0261)Thr+(-0.0101)Arg+(0.0063)Val+(-0.1129)Trp;0.822,0.849,0.808,0.806,0.811,0.845,0.783,0.811,(8.9294)+(-0.0379)Asn+(-0.0856)His+(0.0244)Thr+(-0.0015)Ala+(0.0087)Tyr+(-0.1070)Trp;0.822,0.851,0.820,0.804,0.817,0.845,0.853,0.830,(6.9457)+(-0.0064)Ala+(-0.0705)Cit+(-0.0643)Met+(-0.0007)Lys+(0.0813)Ile+(-0.1468)Trp;0.822,0.847,0.789,0.778,0.801,0.824,0.765,0.792,(7.9101)+(0.0011)Gly+(-0.1046)His+(0.0196)Thr+(0.0007)Tyr+(0.0076)Val+(-0.1149)Trp;0.822,0.846,0.765,0.733,0.733,0.851,0.850,0.792,(5.6163)+(-0.0776)His+(-0.0084)Ala+(-0.0772)Cit+(-0.0377)Val+(0.0488)Orn+(0.1458)Ile;0.822,0.844,0.802,0.791,0.781,0.836,0.852,0.815,(2.8673)+(-0.1005)Asn+(0.0115)Gln+(-0.1444)His+(-0.0233)Val+(0.0348)Leu+(0.0814)Phe;0.822,0.847,0.786,0.770,0.746,0.858,0.858,0.808,(3.6032)+(0.0071)Gln+(-0.1254)His+(-0.0074)Ala+(0.0015)Pro+(0.1141)Ile+(-0.0418)Leu;0.822,0.854,0.772,0.743,0.768,0.842,0.810,0.791,(6.0288)+(-0.1234)His+(0.0321)Thr+(-0.0046)Ala+(-0.2292)Met+(0.0007)Lys+(0.0757)Ile;0.822,0.853,0.772,0.743,0.765,0.842,0.809,0.790,(6.0856)+(-0.1226)His+(0.0323)Thr+(-0.0045)Ala+(-0.0029)Tyr+(-0.2243)Met+(0.0760)Ile;0.822,0.856,0.808,0.777,0.820,0.838,0.84

4,0.820,(7.8660)+(-0.0680)His+(-0.0416)Cit+(0.0206)Tyr+(-0.0963)Met+(0.0715)Ile+(-0.1253)Trp;0.822,0.850,0.825,0.827,0.822,0.851,0.809,0.827,(5.7899)+(0.0011)Gly+(0.0113)Gln+(-0.1164)His+(-0.0158)Arg+(0.0210)Tyr+(-0.1059)Trp;0.822,0.846,0.754,0.735,0.697,0.855,0.848,0.784,(2.9558)+(0.0488)Ser+(-0.1921)Asn+(-0.0054)Gly+(0.0070)Thr+(-0.0581)Val+(0.1753)Ile;0.822,0.857,0.761,0.737,0.770,0.846,0.747,0.775,(2.2056)+(0.0345)Ser+(0.0065)Gln+(-0.1543)His+(0.0190)Thr+(-0.2466)Met+(0.0322)Leu;0.822,0.851,0.834,0.841,0.828,0.863,0.807,0.835,(5.9516)+(0.0016)Gly+(0.0107)Gln+(-0.0924)His+(-0.0352)Cit+(-0.0485)Met+(-0.0983)Trp;0.822,0.849,0.808,0.817,0.802,0.850,0.766,0.809,(4.7542)+(0.0366)Ser+(-0.1011)Asn+(-0.0027)Ala+(0.0235)Orn+(0.0007)Lys+(-0.1310)Trp;0.822,0.851,0.794,0.805,0.803,0.842,0.714,0.791,(4.1886)+(0.0298)Ser+(0.0114)Thr+(-0.1808)Met+(0.0178)Orn+(0.0003)Lys+(-0.1415)Trp;0.822,0.848,0.724,0.684,0.714,0.832,0.773,0.751,(2.6715)+(0.0404)Ser+(-0.1307)His+(-0.0023)Pro+(-0.0099)Lys+(0.1068)Ile+(-0.0300)Leu;0.822,0.849,0.732,0.687,0.730,0.831,0.787,0.758,(2.9406)+(0.0510)Ser+(-0.0694)Asn+(-0.0028)Gly+(-0.1371)His+(-0.0005)Pro+(0.0582)Ile;0.822,0.852,0.777,0.754,0.751,0.849,0.838,0.798,(5.9315)+(0.0042)Gly+(-0.0666)His+(0.0032)Pro+(-0.0415)Val+(-0.2212)Met+(0.1653)Ile;0.822,0.846,0.762,0.741,0.715,0.842,0.859,0.789,(5.6269)+(-0.0935)His+(0.0130)Thr+(-0.0068)Ala+(-0.0345)Val+(-0.0057)Lys+(0.1427)Ile;0.822,0.858,0.804,0.788,0.812,0.812,0.825,0.809,(6.4551)+(-0.0924)His+(-0.0521)Cit+(-0.0145)Tyr+(0.0117)Leu+(0.1123)Phe+(-0.1273)Trp;0.822,0.852,0.764,0.740,0.760,0.796,0.809,0.776,(2.3612)+(0.0465)Ser+(-0.0084)Gly+(0.0036)Orn+(-0.0162)Lys+(0.0625)Ile+(-0.1622)Trp;0.822,0.851,0.783,0.770,0.773,0.853,0.786,0.796,(2.5067)+(0.0439)Ser+(-0.0058)Gly+(0.0079)Gln+(-0.1316)His+(0.0120)Pro+(-0.1793)Met;0.822,0.844,0.726,0.692,0.698,0.831,0.801,0.755,(1.9982)+(0.0338)Ser+(0.0024)Gln

+(-0.1275)His+(-0.0047)Thr+(-0.0270)Val+(0.1146)Ile;0.822,0.855,0.801,0.791,0.809,0.824,0.794,0.804,(2.8624)+(0.0520)Ser+(-0.0065)Gly+(0.0265)Tyr+(-0.2229)Met+(0.0224)Leu+(-0.1534)Trp;0.822,0.855,0.797,0.790,0.810,0.783,0.798,0.795,(4.5840)+(-0.0792)Asn+(0.0201)Thr+(-0.0212)Arg+(0.0364)Ile+(0.0624)Phe+(-0.1757)Trp;0.822,0.853,0.828,0.830,0.837,0.813,0.813,0.823,(3.1582)+(0.0056)Gln+(-0.0986)Cit+(0.0001)Val+(-0.0084)Lys+(0.0951)Phe+(-0.1743)Trp;0.822,0.852,0.782,0.764,0.802,0.812,0.768,0.786,(3.9997)+(0.0393)Ser+(-0.0046)Gly+(-0.0813)Cit+(0.0073)Pro+(0.0135)Leu+(-0.1751)Trp;0.822,0.851,0.740,0.711,0.739,0.831,0.751,0.758,(1.1071)+(0.0475)Ser+(-0.1555)His+(-0.0048)Ala+(-0.0228)Arg+(0.0179)Orn+(0.1026)Phe;0.822,0.847,0.777,0.772,0.738,0.811,0.849,0.792,(5.5217)+(-0.0008)Gly+(-0.0005)Pro+(-0.0126)Tyr+(-0.0400)Val+(0.1495)Ile+(-0.1320)Trp;0.822,0.853,0.801,0.804,0.813,0.850,0.732,0.800,(3.8193)+(0.0324)Ser+(0.0106)Thr+(0.0248)Tyr+(-0.2157)Met+(0.0147)Orn+(-0.1479)Trp;0.822,0.859,0.798,0.796,0.790,0.775,0.838,0.800,(3.6491)+(0.0041)Pro+(-0.0274)Val+(-0.0058)Lys+(0.0441)Leu+(0.0802)Phe+(-0.1689)Trp;0.822,0.850,0.712,0.664,0.719,0.807,0.756,0.737,(0.4306)+(0.0525)Ser+(-0.0018)Gly+(-0.1653)His+(-0.0239)Arg+(0.0387)Ile+(0.0767)Phe;0.822,0.842,0.735,0.690,0.734,0.830,0.784,0.760,(1.3463)+(0.0392)Ser+(-0.0035)Gly+(0.0058)Gln+(-0.1593)His+(-0.0429)Cit+(0.0536)Ile;0.822,0.853,0.839,0.840,0.850,0.819,0.829,0.834,(5.0575)+(-0.0028)Ala+(-0.0739)Cit+(-0.0003)Val+(-0.1347)Met+(0.1248)Phe+(-0.1471)Trp;0.822,0.849,0.799,0.790,0.810,0.830,0.776,0.802,(8.5630)+(-0.0311)Asn+(-0.0959)His+(0.0234)Thr+(0.0008)Tyr+(0.0063)Val+(-0.1132)Trp;0.822,0.852,0.820,0.819,0.830,0.807,0.812,0.817,(3.2048)+(0.0053)Gln+(-0.1016)Cit+(0.0048)Pro+(-0.0088)Lys+(0.0916)Phe+(-0.1767)Trp;0.822,0.852,0.778,0.760,0.803,0.819,0.746,0.782,(4.2617)+(0.0364)Ser+(-0.0870)Cit+(0.0073)Pro+(-0.0100)Lys+(0.0207)Leu+(-0.1691)Trp;0.822,0.847,0.722,0.701,0.710

,0.788,0.758,0.739,(1.0033)+(0.0512)Ser+(-0.0049)Gly+(-0.1519)His+(0.0053)Pro+(-0.0541)Tyr+(0.1126)Phe;0.822,0.855,0.750,0.734,0.728,0.838,0.775,0.769,(-0.9613)+(0.0474)Ser+(-0.1744)Asn+(-0.0868)Cit+(0.1588)Ile+(-0.0941)Leu+(0.0897)Phe;0.822,0.852,0.804,0.797,0.760,0.875,0.864,0.824,(3.1470)+(0.0052)Gln+(-0.0518)Cit+(-0.0529)Val+(-0.3091)Met+(0.0045)Lys+(0.1870)Ile;0.822,0.851,0.710,0.665,0.715,0.808,0.748,0.734,(0.3577)+(0.0502)Ser+(-0.1661)His+(-0.0241)Arg+(-0.0019)Pro+(0.0413)Ile+(0.0788)Phe;0.822,0.851,0.786,0.793,0.784,0.826,0.741,0.786,(4.3597)+(0.0390)Ser+(-0.1133)Asn+(0.0071)Pro+(-0.0080)Tyr+(0.0170)Orn+(-0.1338)Trp;0.822,0.845,0.758,0.740,0.701,0.858,0.852,0.788,(2.7902)+(0.0502)Ser+(-0.1770)Asn+(-0.0052)Gly+(-0.0543)Val+(0.1781)Ile+(-0.0072)Leu;0.822,0.849,0.802,0.790,0.806,0.815,0.818,0.807,(4.4514)+(0.0049)Gln+(-0.0888)Cit+(0.0015)Pro+(-0.0142)Tyr+(0.0618)Ile+(-0.1784)Trp;0.822,0.850,0.780,0.756,0.750,0.849,0.855,0.803,(2.1662)+(0.0079)Gln+(-0.1614)His+(-0.0071)Ala+(0.0058)Orn+(0.0415)Ile+(0.0522)Phe;0.822,0.849,0.810,0.806,0.840,0.838,0.737,0.805,(8.1214)+(-0.0731)Asn+(0.0162)Thr+(-0.1084)Cit+(-0.0080)Tyr+(0.0522)Orn+(-0.1474)Trp;0.822,0.855,0.828,0.827,0.821,0.810,0.857,0.829,(4.0681)+(-0.0017)Ala+(-0.0303)Val+(-0.2018)Met+(0.0548)Leu+(0.1179)Phe+(-0.1395)Trp;0.822,0.847,0.759,0.738,0.703,0.859,0.855,0.789,(2.9022)+(0.0515)Ser+(-0.1682)Asn+(-0.0054)Gly+(-0.0549)Val+(-0.0051)Lys+(0.1726)Ile;0.822,0.845,0.728,0.694,0.716,0.824,0.775,0.752,(0.8702)+(0.0450)Ser+(-0.1630)His+(0.0001)Thr+(-0.0054)Ala+(0.0083)Leu+(0.0908)Phe;0.822,0.845,0.766,0.743,0.725,0.849,0.854,0.793,(5.6661)+(-0.0844)His+(0.0130)Thr+(-0.0080)Ala+(-0.0497)Cit+(-0.0348)Val+(0.1470)Ile;0.822,0.857,0.806,0.797,0.798,0.824,0.832,0.813,(0.8614)+(0.0123)Gln+(-0.1517)His+(0.0060)Pro+(-0.0138)Tyr+(-0.2387)Met+(0.1259)Phe;0.822,0.854,0.816,0.817,0.810,0.794,0.844,0.816,(2.8110)+(-0.0986)Asn+(0.0012)Gly+(0.0052)Gln+(0.0378)Ile+(0.

0546)Phe+(-0.1726)Trp;0.822,0.852,0.800,0.792,0.779,0.812,0.856,0.810,(2.5973)+(0.0019)Gln+(0.0064)Thr+(-0.0104)Ala+(0.0558)Ile+(0.0543)Phe+(-0.1800)Trp;0.822,0.851,0.796,0.789,0.822,0.805,0.756,0.793,(3.3126)+(0.0024)Gly+(0.0024)Gln+(-0.1309)Cit+(0.0419)Orn+(0.0754)Phe+(-0.1849)Trp;0.822,0.846,0.773,0.759,0.737,0.850,0.825,0.793,(6.3845)+(-0.1219)Asn+(-0.0844)Cit+(-0.0323)Tyr+(-0.0551)Val+(0.0598)Orn+(0.1648)Ile;0.822,0.858,0.799,0.773,0.799,0.827,0.843,0.811,(7.5973)+(-0.0801)His+(0.0039)Arg+(0.0027)Pro+(-0.0991)Met+(0.0691)Ile+(-0.1125)Trp;0.822,0.858,0.841,0.852,0.822,0.824,0.864,0.840,(3.3323)+(-0.0857)Asn+(0.0056)Gln+(-0.0071)Ala+(0.0075)Pro+(0.0812)Phe+(-0.1544)Trp;0.822,0.852,0.729,0.679,0.745,0.839,0.747,0.753,(3.0941)+(0.0469)Ser+(-0.0799)Asn+(-0.1284)His+(-0.0594)Cit+(0.0303)Orn+(0.0519)Ile;0.822,0.852,0.818,0.819,0.823,0.854,0.777,0.818,(6.0765)+(0.0466)Ser+(-0.0813)Asn+(-0.0048)Gly+(-0.0588)Cit+(0.0022)Arg+(-0.1333)Trp;0.822,0.849,0.826,0.834,0.846,0.847,0.745,0.818,(5.6422)+(0.0056)Gln+(0.0234)Thr+(-0.0724)Cit+(0.0046)Val+(-0.1736)Met+(-0.1525)Trp;0.822,0.847,0.794,0.773,0.768,0.857,0.856,0.813,(4.0185)+(-0.0724)Asn+(0.0095)Gln+(-0.1449)His+(0.0123)Thr+(-0.0061)Ala+(0.0539)Ile;0.822,0.849,0.789,0.786,0.807,0.830,0.731,0.788,(4.1880)+(0.0308)Ser+(0.0021)Gln+(-0.0836)Cit+(0.0094)Pro+(-0.0049)Lys+(-0.1599)Trp;0.822,0.850,0.798,0.786,0.801,0.830,0.798,0.804,(8.0512)+(-0.0871)His+(-0.0042)Ala+(0.0095)Pro+(0.0038)Tyr+(0.0331)Orn+(-0.1017)Trp;0.822,0.854,0.812,0.835,0.808,0.772,0.793,0.802,(3.3777)+(-0.1233)Asn+(0.0051)Gln+(0.0213)Thr+(-0.0429)Tyr+(0.0954)Phe+(-0.1557)Trp;0.822,0.848,0.779,0.771,0.741,0.820,0.849,0.795,(5.3054)+(-0.0021)Pro+(-0.0341)Val+(-0.0023)Lys+(0.1671)Ile+(-0.0211)Leu+(-0.1319)Trp;0.822,0.848,0.706,0.653,0.705,0.803,0.778,0.735,(0.3676)+(0.0477)Ser+(-0.0031)Gly+(-0.1721)His+(0.0015)Orn+(0.0356)Ile+(0.0657)Phe;0.822,0.848,0.717,0.678,0.694,0.829,0.788,0.747,(2.1958)+(0.0

313)Ser+(0.0013)Gln+(-0.1297)His+(-0.0289)Val+(0.0136)Orn+(0.1144)Ile
;0.822,0.845,0.727,0.685,0.721,0.832,0.773,0.753,(2.5143)+(0.0430)Ser
+(-0.0028)Gly+(-0.1241)His+(-0.0433)Cit+(0.1112)Ile+(-0.0394)Leu;0.82
2,0.844,0.820,0.814,0.840,0.849,0.775,0.820,(8.2444)+(-0.0432)Asn+(-0
.0038)Ala+(-0.1096)Cit+(0.0623)Orn+(0.0004)Lys+(-0.1363)Trp;0.822,0.8
43,0.726,0.697,0.718,0.807,0.759,0.745,(0.0804)+(0.0379)Ser+(0.0040)G
ln+(-0.1760)His+(0.0011)Pro+(-0.0032)Val+(0.0914)Phe;0.822,0.852,0.78
3,0.762,0.756,0.866,0.839,0.806,(4.7131)+(-0.0685)Cit+(0.0011)Arg+(-0
.0551)Val+(-0.2629)Met+(0.0420)Orn+(0.1825)Ile;0.822,0.850,0.795,0.78
7,0.820,0.791,0.769,0.792,(4.2501)+(0.0134)Thr+(-0.0963)Cit+(0.0043)P
ro+(-0.0047)Val+(0.0908)Phe+(-0.1816)Trp;0.822,0.843,0.730,0.701,0.72
2,0.808,0.764,0.749,(-0.0435)+(0.0392)Ser+(0.0044)Gln+(-0.1751)His+(-
0.0039)Thr+(-0.0024)Val+(0.0927)Phe;0.822,0.855,0.793,0.793,0.788,0.7
68,0.818,0.792,(2.8863)+(0.0009)Gln+(0.0080)Thr+(-0.0277)Val+(0.0419)
Leu+(0.0754)Phe+(-0.1804)Trp;0.822,0.849,0.736,0.710,0.734,0.829,0.74
3,0.754,(1.2636)+(0.0469)Ser+(-0.1575)His+(0.0071)Thr+(-0.0045)Ala+(-
0.0237)Arg+(0.1067)Phe;0.822,0.847,0.810,0.806,0.838,0.844,0.741,0.80
7,(6.0772)+(0.0036)Gln+(0.0078)Thr+(-0.1180)Cit+(0.0526)Orn+(-0.0095)
Lys+(-0.1607)Trp;0.822,0.854,0.793,0.783,0.800,0.811,0.790,0.796,(5.6
589)+(-0.0252)Asn+(-0.0003)Gly+(0.0262)Thr+(-0.2204)Met+(0.0641)Ile+(
-0.1517)Trp;0.822,0.850,0.812,0.825,0.810,0.843,0.758,0.809,(4.9343)+
(0.0381)Ser+(-0.0693)Asn+(-0.0001)Ala+(-0.0954)Met+(0.0067)Lys+(-0.13
34)Trp;0.822,0.849,0.786,0.770,0.778,0.821,0.819,0.797,(2.7952)+(-0.0
947)Asn+(0.0105)Gln+(-0.1628)His+(0.0174)Thr+(-0.0068)Lys+(0.0835)Phe
;0.822,0.848,0.794,0.771,0.822,0.833,0.767,0.798,(8.1486)+(-0.0738)Hi
s+(-0.0804)Cit+(0.0059)Pro+(0.0033)Val+(0.0532)Orn+(-0.1215)Trp;0.822
,0.847,0.718,0.678,0.696,0.828,0.792,0.748,(2.3861)+(0.0350)Ser+(-0.1
224)His+(-0.0057)Thr+(-0.0299)Val+(0.0178)Orn+(0.1180)Ile;0.822,0.855

,0.827,0.832,0.822,0.821,0.825,0.825,(4.9842)+(-0.0924)Asn+(0.0224)Th
r+(-0.0062)Ala+(-0.0026)Lys+(0.0893)Phe+(-0.1556)Trp;0.822,0.847,0.78
0,0.762,0.742,0.852,0.853,0.802,(4.5495)+(-0.1049)Asn+(0.0075)Gln+(-0
.0965)His+(-0.0375)Val+(0.0232)Orn+(0.1269)Ile;0.822,0.848,0.793,0.79
7,0.768,0.805,0.828,0.799,(4.5426)+(-0.0022)Gly+(0.0032)Gln+(-0.0237)
Tyr+(0.1417)Ile+(-0.0646)Leu+(-0.1417)Trp;0.822,0.846,0.731,0.718,0.7
26,0.802,0.727,0.743,(1.1631)+(0.0493)Ser+(-0.1492)His+(-0.0213)Arg+(
-0.0416)Tyr+(-0.0012)Val+(0.1274)Phe;0.822,0.848,0.797,0.785,0.802,0.
817,0.802,0.801,(4.2454)+(0.0022)Gly+(0.0045)Gln+(-0.0917)Cit+(-0.011
1)Tyr+(0.0644)Ile+(-0.1793)Trp;0.822,0.851,0.808,0.824,0.810,0.853,0.
730,0.804,(4.0523)+(0.0265)Ser+(0.0026)Gln+(0.0144)Thr+(-0.0008)Ala+(
-0.1799)Met+(-0.1423)Trp;0.822,0.851,0.805,0.821,0.809,0.846,0.727,0.
801,(3.9260)+(0.0268)Ser+(0.0025)Gln+(0.0136)Thr+(-0.1881)Met+(0.0015
)Lys+(-0.1442)Trp;0.822,0.851,0.724,0.677,0.727,0.830,0.766,0.750,(2.
8543)+(0.0460)Ser+(-0.0788)Asn+(-0.1402)His+(0.0010)Thr+(0.0126)Orn+(
0.0549)Ile;0.822,0.850,0.778,0.774,0.740,0.813,0.845,0.793,(5.5403)+(
-0.0008)Gly+(-0.0139)Tyr+(-0.0333)Val+(0.1652)Ile+(-0.0225)Leu+(-0.12
84)Trp;0.822,0.849,0.786,0.782,0.804,0.824,0.732,0.786,(3.9425)+(0.03
10)Ser+(0.0018)Gln+(-0.0019)Thr+(-0.0843)Cit+(0.0094)Pro+(-0.1643)Trp
;0.822,0.850,0.820,0.814,0.836,0.799,0.816,0.816,(5.6154)+(-0.0514)As
n+(-0.0850)Cit+(0.0056)Pro+(-0.0005)Lys+(0.0906)Phe+(-0.1627)Trp;0.82
2,0.852,0.764,0.741,0.760,0.7
97,0.812,0.777,(2.3835)+(0.0466)Ser+(-0.0083)Gly+(-0.0000)Thr+(-0.015
7)Lys+(0.0636)Ile+(-0.1624)Trp;0.822,0.857,0.827,0.839,0.827,0.804,0.
812,0.821,(4.6639)+(-0.0848)Asn+(0.0015)Gly+(-0.0103)Val+(0.0198)Orn+
(0.0877)Phe+(-0.1370)Trp;0.822,0.852,0.804,0.782,0.826,0.831,0.797,0.
809,(6.2471)+(-0.0999)Cit+(0.0055)Arg+(-0.1163)Met+(0.0380)Orn+(0.058
0)Ile+(-0.1578)Trp;0.822,0.851,0.769,0.761,0.767,0.855,0.733,0.779,(2

.8446)+(0.0331)Ser+(0.0067)Gln+(-0.1333)His+(0.0120)Thr+(0.0113)Pro+(-0.2124)Met;0.822,0.850,0.796,0.790,0.799,0.819,0.790,0.800,(3.3277)+(0.0508)Ser+(-0.0071)Gly+(-0.1764)Met+(-0.0009)Lys+(0.0233)Leu+(-0.1452)Trp;0.822,0.848,0.732,0.717,0.728,0.805,0.727,0.744,(1.2136)+(0.0503)Ser+(-0.1489)His+(-0.0197)Arg+(-0.0397)Tyr+(-0.0037)Lys+(0.1272)Phe;0.822,0.850,0.776,0.773,0.737,0.813,0.842,0.791,(5.4157)+(-0.0013)Pro+(-0.0125)Tyr+(-0.0331)Val+(0.1673)Ile+(-0.0232)Leu+(-0.1290)Trp;0.822,0.846,0.743,0.716,0.738,0.826,0.767,0.762,(1.2491)+(0.0518)Ser+(-0.0020)Gly+(-0.1532)His+(-0.0042)Ala+(-0.0204)Arg+(0.1063)Phe;0.822,0.862,0.763,0.760,0.768,0.769,0.758,0.764,(0.7414)+(0.0312)Ser+(-0.0016)Gln+(-0.0016)Orn+(-0.0011)Leu+(0.0750)Phe+(-0.1761)Trp;0.822,0.855,0.792,0.782,0.799,0.810,0.791,0.796,(5.6183)+(-0.0256)Asn+(0.0258)Thr+(0.0013)Pro+(-0.2230)Met+(0.0628)Ile+(-0.1514)Trp;0.822,0.855,0.799,0.796,0.810,0.829,0.760,0.799,(6.7404)+(0.0373)Thr+(-0.0118)Arg+(-0.0355)Val+(-0.2363)Met+(0.0757)Leu+(-0.1408)Trp;0.822,0.850,0.787,0.778,0.805,0.828,0.745,0.789,(8.1718)+(-0.1006)His+(0.0197)Thr+(-0.0186)Arg+(0.0301)Orn+(0.0058)Lys+(-0.1111)Trp;0.822,0.854,0.794,0.781,0.799,0.848,0.780,0.802,(5.9860)+(0.0456)Ser+(-0.0044)Gly+(-0.0922)His+(-0.0104)Arg+(0.0199)Tyr+(-0.1032)Trp;0.822,0.852,0.799,0.791,0.785,0.833,0.828,0.809,(4.8603)+(0.0518)Ser+(-0.1174)Asn+(-0.0064)Gly+(-0.0282)Val+(0.0591)Leu+(-0.1317)Trp;0.822,0.849,0.808,0.797,0.841,0.835,0.750,0.806,(7.7122)+(-0.0734)Asn+(0.0152)Thr+(-0.1104)Cit+(0.0482)Orn+(0.0087)Leu+(-0.1601)Trp;0.822,0.847,0.719,0.675,0.709,0.835,0.773,0.748,(2.6661)+(0.0329)Ser+(-0.1158)His+(-0.0628)Cit+(-0.0305)Val+(0.0341)Orn+(0.1180)Ile;0.822,0.844,0.784,0.766,0.739,0.859,0.869,0.808,(3.9904)+(0.0068)Gln+(-0.0987)His+(-0.0078)Ala+(-0.0558)Cit+(-0.0298)Val+(0.1371)Ile;0.822,0.852,0.784,0.762,0.756,0.866,0.838,0.806,(4.7187)+(-0.0673)Cit+(-0.0553)Val+(-0.2627)Met+(0.0419)Orn+(0.0005)Lys+(0.18

26)Ile;0.822,0.852,0.801,0.779,0.783,0.860,0.853,0.819,(3.3917)+(0.01
01)Gln+(-0.1360)His+(-0.0043)Ala+(-0.1707)Met+(0.0100)Orn+(0.0676)Ile
;0.822,0.851,0.818,0.819,0.825,0.854,0.772,0.818,(5.3894)+(0.0444)Ser
+(-0.0059)Gly+(0.0004)Ala+(-0.0526)Cit+(-0.1071)Met+(-0.1320)Trp;0.82
2,0.850,0.798,0.792,0.798,0.824,0.795,0.802,(3.3497)+(0.0500)Ser+(-0.
0069)Gly+(-0.0010)Ala+(-0.1719)Met+(0.0237)Leu+(-0.1446)Trp;0.822,0.8
49,0.789,0.778,0.794,0.778,0.813,0.791,(4.2767)+(-0.0919)Cit+(0.0020)
Pro+(-0.0327)Tyr+(0.0501)Ile+(0.0828)Phe+(-0.1771)Trp;0.822,0.845,0.7
13,0.696,0.702,0.788,0.731,0.729,(0.8176)+(0.0442)Ser+(-0.1537)His+(0
.0052)Pro+(-0.0484)Tyr+(-0.0021)Val+(0.1158)Phe;0.822,0.851,0.834,0.8
38,0.846,0.844,0.788,0.829,(6.3642)+(-0.1039)Asn+(0.0071)Gln+(0.0165)
Thr+(-0.0799)Cit+(0.0064)Pro+(-0.1547)Trp;0.822,0.851,0.782,0.776,0.8
02,0.832,0.721,0.783,(4.6684)+(0.0329)Ser+(0.0014)Thr+(-0.0808)Cit+(0
.0096)Pro+(-0.0041)Lys+(-0.1584)Trp;0.822,0.849,0.790,0.787,0.800,0.8
29,0.752,0.792,(8.5497)+(-0.0913)His+(0.0232)Thr+(-0.0143)Arg+(0.0066
)Pro+(-0.0009)Tyr+(-0.1096)Trp;0.822,0.849,0.796,0.780,0.806,0.817,0.
801,0.801,(4.0866)+(0.0025)Gly+(0.0042)Gln+(-0.0950)Cit+(0.0004)Pro+(
0.0629)Ile+(-0.1845)Trp;0.822,0.847,0.725,0.682,0.724,0.828,0.769,0.7
51,(2.9439)+(0.0463)Ser+(-0.0762)Asn+(-0.1391)His+(0.0031)Thr+(-0.000
8)Pro+(0.0593)Ile;0.822,0.854,0.792,0.783,0.800,0.811,0.789,0.796,(5.
6307)+(-0.0255)Asn+(0.0261)Thr+(-0.2205)Met+(-0.0007)Orn+(0.0645)Ile+
(-0.1516)Trp;0.822,0.850,0.802,0.797,0.809,0.831,0.778,0.804,(8.5964)
+(-0.0467)Asn+(-0.0903)His+(0.0224)Thr+(0.0028)Tyr+(0.0074)Lys+(-0.11
02)Trp;0.822,0.855,0.823,0.825,0.820,0.793,0.847,0.821,(3.7019)+(-0.0
322)Val+(-0.2351)Met+(0.0075)Lys+(0.0530)Leu+(0.1176)Phe+(-0.1431)Trp
;0.822,0.853,0.825,0.831,0.820,0.816,0.825,0.823,(4.9034)+(-0.0958)As
n+(0.0001)Gly+(0.0214)Thr+(-0.0062)Ala+(0.0876)Phe+(-0.1565)Trp;0.822
,0.849,0.829,0.831,0.839,0.809,0.818,0.824,(5.7074)+(-0.0567)Asn+(-0.

0780)Cit+(-0.0037)Val+(0.0022)Lys+(0.0994)Phe+(-0.1546)Trp;0.822,0.847,0.755,0.745,0.703,0.858,0.814,0.780,(2.8876)+(0.0465)Ser+(-0.1633)Asn+(-0.0190)Arg+(0.0010)Pro+(-0.0567)Val+(0.1762)Ile;0.822,0.852,0.797,0.786,0.777,0.808,0.857,0.807,(3.2023)+(0.0098)Thr+(-0.0102)Ala+(-0.0089)Orn+(0.0585)Ile+(0.0607)Phe+(-0.1795)Trp;0.822,0.849,0.726,0.692,0.719,0.825,0.762,0.749,(3.4257)+(0.0441)Ser+(-0.0741)Asn+(-0.1338)His+(0.0069)Thr+(-0.0234)Tyr+(0.0627)Ile;0.822,0.848,0.779,0.774,0.739,0.817,0.845,0.794,(5.0443)+(0.0015)Gln+(-0.0114)Tyr+(-0.0390)Val+(-0.0040)Lys+(0.1479)Ile+(-0.1327)Trp;0.822,0.846,0.756,0.749,0.703,0.855,0.816,0.781,(3.0634)+(0.0455)Ser+(-0.1574)Asn+(-0.0179)Arg+(-0.0096)Tyr+(-0.0552)Val+(0.1764)Ile;0.822,0.850,0.810,0.818,0.804,0.853,0.768,0.811,(4.7024)+(0.0369)Ser+(-0.1015)Asn+(-0.0029)Ala+(0.0047)Tyr+(0.0231)Orn+(-0.1319)Trp;0.822,0.849,0.793,0.771,0.819,0.831,0.766,0.797,(8.0492)+(-0.0734)His+(-0.0786)Cit+(0.0066)Pro+(0.0532)Orn+(0.0027)Lys+(-0.1195)Trp;0.822,0.849,0.786,0.791,0.762,0.803,0.813,0.792,(4.3575)+(0.0024)Gln+(-0.0231)Tyr+(0.0030)Orn+(0.1412)Ile+(-0.0647)Leu+(-0.1417)Trp;0.822,0.847,0.726,0.686,0.732,0.831,0.747,0.749,(3.1829)+(0.0476)Ser+(-0.0665)Asn+(-0.1376)His+(0.0067)Thr+(-0.0160)Arg+(0.0588)Ile;0.822,0.847,0.740,0.715,0.736,0.827,0.753,0.758,(1.1603)+(0.0491)Ser+(-0.1531)His+(-0.0041)Ala+(-0.0210)Arg+(-0.0010)Val+(0.1096)Phe;0.822,0.844,0.793,0.780,0.753,0.859,0.862,0.814,(4.4425)+(-0.1029)Asn+(0.0102)Gln+(-0.0911)His+(-0.0484)Cit+(-0.0348)Val+(0.1318)Ile;0.822,0.854,0.792,0.764,0.798,0.825,0.832,0.805,(7.6860)+(-0.0772)His+(-0.0449)Cit+(0.0037)Tyr+(0.0013)Lys+(0.0674)Ile+(-0.1299)Trp;0.822,0.853,0.832,0.831,0.845,0.808,0.821,0.826,(4.5720)+(-0.0791)Cit+(0.0108)Arg+(-0.0015)Val+(-0.1699)Met+(0.1248)Phe+(-0.1496)Trp;0.822,0.852,0.812,0.815,0.822,0.863,0.745,0.811,(4.2639)+(0.0320)Ser+(0.0139)Thr+(-0.0015)Ala+(0.0312)Tyr+(-0.2102)Met+(-0.1477)Trp;0.822,0.852,0.780,0.

776,0.797,0.826,0.718,0.779,(4.5305)+(0.0324)Ser+(0.0005)Thr+(-0.0808)Cit+(0.0100)Pro+(-0.0071)Tyr+(-0.1598)Trp;0.822,0.850,0.835,0.848,0.847,0.864,0.754,0.828,(5.9988)+(0.0056)Gln+(0.0243)Thr+(-0.0016)Ala+(-0.0671)Cit+(-0.1581)Met+(-0.1437)Trp;0.822,0.849,0.811,0.808,0.841,0.829,0.747,0.806,(7.7457)+(-0.0390)Asn+(0.0311)Thr+(-0.0693)Cit+(-0.1528)Met+(0.0200)Leu+(-0.1521)Trp;0.822,0.852,0.787,0.779,0.804,0.832,0.738,0.788,(8.2987)+(0.0005)Gly+(-0.0979)His+(0.0209)Thr+(-0.0165)Arg+(0.0321)Orn+(-0.1074)Trp;0.821,0.853,0.795,0.786,0.800,0.851,0.769,0.802,(6.2284)+(0.0442)Ser+(-0.0043)Gly+(-0.0796)His+(0.0002)Ala+(-0.0308)Cit+(-0.1001)Trp;0.821,0.843,0.721,0.689,0.710,0.807,0.768,0.743,(0.2182)+(0.0381)Ser+(0.0035)Gln+(-0.1729)His+(-0.0139)Val+(0.0241)Leu+(0.0830)Phe;0.821,0.855,0.790,0.776,0.804,0.854,0.753,0.797,(5.9780)+(0.0405)Ser+(-0.0877)His+(-0.0348)Cit+(-0.0056)Arg+(0.0250)Tyr+(-0.1094)Trp;0.821,0.853,0.818,0.816,0.827,0.854,0.781,0.819,(5.8744)+(0.0469)Ser+(-0.0867)Asn+(-0.0044)Gly+(-0.0609)Cit+(0.0144)Tyr+(-0.1398)Trp;0.821,0.844,0.728,0.688,0.705,0.830,0.808,0.758,(2.8203)+(0.0420)Ser+(-0.0044)Gly+(-0.1128)His+(-0.0325)Cit+(-0.0297)Val+(0.1229)Ile;0.821,0.842,0.777,0.761,0.726,0.847,0.876,0.803,(6.4834)+(-0.0514)Asn+(-0.0669)His+(-0.0071)Ala+(0.0054)Pro+(-0.0403)Val+(0.1495)Ile;0.821,0.854,0.818,0.815,0.818,0.815,0.831,0.820,(5.1700)+(-0.0087)Ala+(-0.0932)Cit+(0.0125)Pro+(-0.0025)Lys+(0.1022)Phe+(-0.1608)Trp;0.821,0.854,0.802,0.795,0.778,0.810,0.866,0.812,(2.6097)+(0.0024)Gln+(-0.0108)Ala+(0.0042)Pro+(0.0536)Ile+(0.0539)Phe+(-0.1763)Trp;0.821,0.854,0.820,0.812,0.816,0.814,0.858,0.825,(3.8706)+(-0.0057)Ala+(-0.0030)Arg+(-0.1930)Met+(0.0608)Ile+(0.0877)Phe+(-0.1484)Trp;0.821,0.852,0.816,0.820,0.827,0.787,0.802,0.809,(3.6107)+(-0.0207)Asn+(0.0027)Gly+(0.0076)Pro+(-0.2140)Met+(0.1103)Phe+(-0.1418)Trp;0.821,0.849,0.776,0.758,0.792,0.787,0.782,0.780,(3.2992)+(0.0047)Gly+(-0.1044)Cit+(-0.0002)Pro+(0

.0530)Ile+(0.0687)Phe+(-0.1908)Trp;0.821,0.855,0.789,0.787,0.784,0.772,0.814,0.789,(3.1305)+(0.0074)Thr+(-0.0292)Val+(0.0087)Orn+(0.0433)Leu+(0.0724)Phe+(-0.1772)Trp;0.821,0.854,0.778,0.756,0.779,0.852,0.782,0.792,(2.0516)+(0.0407)Ser+(-0.0471)Asn+(0.0085)Gln+(-0.1448)His+(-0.1494)Met+(0.0281)Leu;0.821,0.853,0.773,0.761,0.795,0.813,0.732,0.775,(4.0255)+(0.0334)Ser+(-0.0859)Cit+(0.0081)Pro+(-0.0098)Tyr+(0.0150)Leu+(-0.1721)Trp;0.821,0.847,0.811,0.801,0.838,0.835,0.764,0.809,(7.8093)+(-0.0550)Asn+(-0.1104)Cit+(0.0019)Arg+(0.0059)Pro+(0.0549)Orn+(-0.1499)Trp;0.821,0.847,0.800,0.793,0.830,0.837,0.732,0.798,(6.8403)+(0.0028)Gly+(-0.1064)Cit+(0.0082)Pro+(-0.0945)Met+(0.0517)Orn+(-0.1462)Trp;0.821,0.843,0.729,0.688,0.721,0.825,0.782,0.754,(1.2657)+(0.0361)Ser+(0.0048)Gln+(-0.1631)His+(-0.0062)Thr+(-0.0016)Pro+(0.0554)Ile;0.821,0.850,0.778,0.771,0.799,0.822,0.718,0.778,(4.3409)+(0.0329)Ser+(-0.0840)Cit+(0.0092)Pro+(-0.0083)Tyr+(0.0035)Val+(-0.1647)Trp;0.821,0.850,0.741,0.705,0.747,0.835,0.756,0.761,(3.2648)+(0.0498)Ser+(-0.1168)His+(0.0118)Pro+(-0.0253)Val+(-0.2237)Met+(0.0634)Leu;0.821,0.846,0.733,0.690,0.736,0.831,0.770,0.757,(3.0765)+(0.0527)Ser+(-0.0580)Asn+(-0.0025)Gly+(-0.1345)His+(-0.0133)Arg+(0.0588)Ile;0.821,0.849,0.802,0.800,0.808,0.841,0.768,0.804,(8.7081)+(-0.0406)Asn+(0.0012)Gly+(-0.0879)His+(0.0233)Thr+(0.0072)Tyr+(-0.1068)Trp;0.821,0.851,0.794,0.778,0.814,0.794,0.791,0.794,(4.1825)+(0.0160)Thr+(-0.0895)Cit+(-0.0192)Val+(0.0325)Leu+(0.0858)Phe+(-0.1861)Trp;0.821,0.853,0.803,0.795,0.809,0.786,0.823,0.803,(2.9532)+(0.0031)Gly+(-0.2469)Met+(-0.0051)Orn+(0.0558)Ile+(0.0926)Phe+(-0.1527)Trp;0.821,0.848,0.763,0.731,0.773,0.841,0.767,0.778,(6.3401)+(-0.1227)His+(0.0369)Thr+(-0.0356)Val+(-0.2537)Met+(0.0272)Orn+(0.0772)Leu;0.821,0.843,0.781,0.766,0.731,0.848,0.877,0.806,(6.4954)+(-0.0481)Asn+(-0.0674)His+(-0.0060)Ala+(-0.0369)Val+(0.1584)Ile+(-0.0090)Leu;0.821,0.850,0.724,0.689,0.720,0.833,0.745,0.747

,(2.6607)+(0.0414)Ser+(-0.1265)His+(-0.0267)Arg+(0.0167)Orn+(0.1172)Ile+(-0.0454)Leu;0.821,0.850,0.776,0.766,0.784,0.781,0.783,0.778,(3.5025)+(0.0044)Gly+(-0.1003)Cit+
(-0.0292)Tyr+(0.0541)Ile+(0.0848)Phe+(-0.1803)Trp;0.821,0.849,0.789,0.765,0.796,0.830,0.812,0.801,(8.0908)+(-0.0207)Asn+(-0.0931)His+(-0.0226)Val+(0.0378)Orn+(0.0541)Leu+(-0.1060)Trp;0.821,0.848,0.790,0.794,0.764,0.809,0.816,0.796,(4.3438)+(0.0027)Gln+(-0.0031)Pro+(-0.0198)Tyr+(0.1471)Ile+(-0.0657)Leu+(-0.1425)Trp;0.821,0.846,0.761,0.731,0.768,0.814,0.790,0.776,(3.0199)+(0.0080)Gly+(-0.1327)His+(0.0016)Pro+(-0.2563)Met+(0.0506)Ile+(0.1078)Phe;0.821,0.851,0.836,0.837,0.837,0.827,0.837,0.835,(5.6764)+(-0.0491)Asn+(-0.0048)Ala+(-0.0863)Cit+(0.0081)Arg+(0.1055)Phe+(-0.1532)Trp;0.821,0.850,0.812,0.817,0.824,0.858,0.740,0.810,(5.2940)+(0.0361)Ser+(-0.0001)Ala+(-0.0603)Cit+(0.0011)Arg+(-0.1016)Met+(-0.1323)Trp;0.821,0.846,0.740,0.705,0.741,0.839,0.759,0.761,(1.2747)+(0.0372)Ser+(0.0073)Gln+(-0.1584)His+(-0.0318)Cit+(-0.0218)Arg+(0.0570)Ile;0.821,0.853,0.812,0.820,0.822,0.854,0.743,0.810,(3.4856)+(0.0300)Ser+(0.0024)Gln+(0.0124)Thr+(0.0285)Tyr+(-0.2264)Met+(-0.1508)Trp;0.821,0.853,0.824,0.826,0.818,0.840,0.821,0.826,(4.1341)+(0.0454)Ser+(-0.1220)Asn+(-0.0080)Gly+(0.0037)Gln+(0.0192)Orn+(-0.1399)Trp;0.821,0.851,0.810,0.808,0.811,0.834,0.793,0.812,(5.0754)+(0.0458)Ser+(-0.1123)Asn+(-0.0077)Gly+(0.0057)Thr+(0.0199)Orn+(-0.1402)Trp;0.821,0.852,0.809,0.802,0.836,0.808,0.773,0.805,(3.6222)+(0.0038)Gln+(-0.1221)Cit+(-0.0116)Arg+(0.0430)Orn+(0.0749)Phe+(-0.1829)Trp;0.821,0.858,0.830,0.824,0.831,0.809,0.859,0.831,(3.9648)+(0.0155)Tyr+(-0.0325)Val+(-0.2381)Met+(0.0567)Leu+(0.1149)Phe+(-0.1422)Trp;0.821,0.857,0.805,0.795,0.811,0.811,0.815,0.808,(6.2237)+(-0.0930)His+(-0.0493)Cit+(-0.0173)Tyr+(0.0054)Lys+(0.1204)Phe+(-0.1234)Trp;0.821,0.849,0.782,0.756,0.789,0.822,0.807,0.793,(7.7068)+(-0.1006)His+(-0.0206)Val+(0.03

50)Orn+(0.0019)Lys+(0.0512)Leu+(-0.1104)Trp;0.821,0.847,0.728,0.687,0.732,0.833,0.756,0.752,(3.1711)+(0.0471)Ser+(-0.0778)Asn+(-0.1305)His+(0.0058)Thr+(-0.0415)Cit+(0.0594)Ile;0.821,0.845,0.725,0.692,0.697,0.833,0.797,0.755,(2.1384)+(0.0319)Ser+(0.0021)Gln+(-0.1292)His+(-0.0020)Pro+(-0.0272)Val+(0.1167)Ile;0.821,0.850,0.801,0.780,0.780,0.858,0.857,0.819,(3.3041)+(0.0106)Gln+(-0.1321)His+(-0.0052)Ala+(0.0051)Pro+(-0.1813)Met+(0.0667)Ile;0.821,0.848,0.774,0.780,0.711,0.820,0.857,0.792,(3.7074)+(-0.1459)Asn+(0.0030)Gly+(-0.0447)Tyr+(-0.0584)Val+(0.1656)Ile+(0.0886)Phe;0.821,0.844,0.721,0.686,0.723,0.811,0.746,0.741,(1.1068)+(0.0474)Ser+(-0.1597)His+(0.0026)Pro+(-0.0013)Val+(-0.0125)Lys+(0.1025)Phe;0.821,0.859,0.739,0.707,0.761,0.816,0.720,0.751,(-3.5871)+(0.0591)Ser+(-0.0883)Cit+(-0.3846)Met+(-0.0180)Lys+(0.0681)Ile+(0.1100)Phe;0.821,0.855,0.766,0.750,0.767,0.852,0.744,0.778,(2.5212)+(0.0362)Ser+(0.0064)Gln+(-0.1351)His+(0.0109)Pro+(-0.1848)Met+(0.0194)Orn;0.821,0.847,0.798,0.799,0.813,0.799,0.759,0.793,(4.7722)+(-0.1218)Cit+(-0.0322)Tyr+(-0.0050)Val+(0.0523)Orn+(0.0985)Phe+(-0.1603)Trp;0.821,0.847,0.792,0.784,0.779,0.821,0.822,0.801,(2.9179)+(-0.1157)Asn+(0.0101)Gln+(-0.1528)His+(0.0179)Thr+(-0.0088)Val+(0.0965)Phe;0.821,0.854,0.803,0.781,0.826,0.833,0.792,0.808,(5.5867)+(0.0060)Gly+(-0.0791)Cit+(0.0263)Tyr+(-0.1634)Met+(0.0732)Ile+(-0.1591)Trp;0.821,0.854,0.801,0.813,0.800,0.763,0.797,0.793,(2.6271)+(0.0015)Gln+(0.0050)Thr+(0.0028)Pro+(-0.0086)Val+(0.0785)Phe+(-0.1717)Trp;0.821,0.850,0.789,0.794,0.789,0.828,0.746,0.789,(4.2461)+(0.0393)Ser+(-0.1158)Asn+(0.0065)Pro+(0.0161)Orn+(-0.0003)Lys+(-0.1364)Trp;0.821,0.850,0.826,0.836,0.819,0.842,0.803,0.825,(3.6264)+(0.0417)Ser+(-0.0079)Gly+(0.0034)Gln+(-0.1560)Met+(0.0029)Lys+(-0.1389)Trp;0.821,0.850,0.787,0.795,0.795,0.832,0.720,0.785,(4.9225)+(0.0387)Ser+(-0.1046)Asn+(0.0083)Thr+(-0.0148)Arg+(0.0076)Pro+(-0.1373)Trp;0.821,0.847,0.803,0.800,0.810,0.845,0.76

4,0.805,(8.5696)+(-0.0832)His+(0.0226)Thr+(-0.0018)Ala+(-0.0405)Cit+(0.0052)Lys+(-0.1124)Trp;0.821,0.846,0.796,0.793,0.799,0.835,0.769,0.799,(8.0660)+(0.0005)Gly+(-0.0956)His+(0.0193)Thr+(-0.0015)Ala+(0.0058)Lys+(-0.1080)Trp;0.821,0.853,0.789,0.765,0.760,0.854,0.863,0.811,(6.4546)+(-0.0582)His+(-0.0333)Cit+(0.0077)Arg+(-0.0418)Val+(-0.2060)Met+(0.1684)Ile;0.821,0.845,0.826,0.834,0.817,0.850,0.804,0.826,(5.9926)+(0.0004)Gly+(0.0113)Gln+(-0.1081)His+(-0.0001)Ala+(-0.0133)Arg+(-0.0972)Trp;0.821,0.854,0.808,0.799,0.815,0.781,0.837,0.808,(3.5213)+(0.0032)Pro+(-0.2431)Met+(-0.0034)Orn+(0.0508)Ile+(0.0890)Phe+(-0.1532)Trp;0.821,0.849,0.790,0.764,0.794,0.832,0.817,0.802,(7.9404)+(-0.0963)His+(-0.0024)Ala+(-0.0203)Val+(0.0373)Orn+(0.0535)Leu+(-0.1077)Trp;0.821,0.853,0.807,0.805,0.807,0.824,0.801,0.809,(2.6100)+(0.0478)Ser+(-0.0075)Gly+(0.0029)Gln+(-0.1922)Met+(0.0219)Leu+(-0.1484)Trp;0.821,0.850,0.774,0.754,0.782,0.820,0.776,0.783,(8.2746)+(-0.1065)His+(0.0283)Thr+(-0.0136)Arg+(-0.0204)Val+(0.0568)Leu+(-0.1203)Trp;0.821,0.850,0.787,0.774,0.741,0.862,0.866,0.811,(4.7450)+(-0.0057)Ala+(-0.0093)Arg+(-0.0557)Val+(-0.2366)Met+(0.0307)Orn+(0.1946)Ile;0.821,0.845,0.720,0.684,0.723,0.811,0.744,0.740,(1.1656)+(0.0467)Ser+(-0.1621)His+(0.0025)Thr+(0.0020)Pro+(-0.0136)Lys+(0.1013)Phe;0.821,0.856,0.824,0.811,0.821,0.820,0.864,0.829,(3.7440)+(-0.0060)Ala+(0.0106)Tyr+(-0.2126)Met+(0.0612)Ile+(0.0848)Phe+(-0.1505)Trp;0.821,0.854,0.811,0.821,0.793,0.784,0.839,0.809,(2.9059)+(-0.0843)Asn+(0.0055)Gln+(-0.0333)Tyr+(0.0393)Ile+(0.0699)Phe+(-0.1638)Trp;0.821,0.850,0.805,0.783,0.786,0.863,0.860,0.823,(3.1877)+(0.0109)Gln+(-0.1367)His+(-0.0044)Ala+(0.0097)Tyr+(-0.1860)Met+(0.0706)Ile;0.821,0.849,0.724,0.689,0.737,0.813,0.728,0.742,(1.1274)+(0.0495)Ser+(-0.1584)His+(-0.0199)Arg+(0.0182)Orn+(-0.0103)Lys+(0.1036)Phe;0.821,0.848,0.787,0.791,0.763,0.804,0.814,0.793,(4.3587)+(0.0025)Gln+(0.0010)Thr+(-0.0229)Tyr+(0.1415)Ile+(-0.0644)Leu+

(-0.1426)Trp;0.821,0.846,0.709,0.691,0.700,0.787,0.723,0.725,(0.8646)+(0.0424)Ser+(-0.1583)His+(0.0045)Thr+(0.0043)Pro+(-0.0517)Tyr+(0.1136)Phe;0.821,0.846,0.804,0.800,0.754,0.870,0.870,0.824,(3.7720)+(-0.0619)Asn+(0.0058)Gln+(-0.0509)Val+(-0.2514)Met+(0.1954)Ile+(-0.0122)Leu;0.821,0.853,0.826,0.821,0.842,0.802,0.821,0.821,(4.4608)+(-0.0828)Cit+(0.0119)Arg+(-0.1771)Met+(0.0076)Leu+(0.1168)Phe+(-0.1574)Trp;0.821,0.850,0.788,0.778,0.808,0.834,0.740,0.790,(8.0765)+(0.0030)Gly+(-0.0931)His+(0.0209)Thr+(-0.0496)Cit+(0.0097)Val+(-0.1225)Trp;0.821,0.848,0.786,0.785,0.767,0.803,0.815,0.792,(5.3744)+(-0.0012)Gly+(-0.0229)Tyr+(0.0091)Orn+(0.1403)Ile+(-0.0644)Leu+(-0.1362)Trp;0.821,0.857,0.802,0.774,0.809,0.830,0.845,0.814,(7.6200)+(-0.0800)His+(0.0020)Pro+(0.0169)Tyr+(-0.1154)Met+(0.0684)Ile+(-0.1169)Trp;0.821,0.849,0.703,0.653,0.702,0.805,0.765,0.731,(0.2751)+(0.0435)Ser+(-0.1734)His+(-0.0036)Pro+(0.0019)Orn+(0.0402)Ile+(0.0691)Phe;0.821,0.848,0.793,0.793,0.772,0.811,0.825,0.800,(4.0406)+(0.0024)Gln+(-0.0047)Pro+(0.0006)Orn+(0.1466)Ile+(-0.0666)Leu+(-0.1503)Trp;0.821,0.845,0.786,0.773,0.742,0.856,0.862,0.808,(4.1216)+(0.0079)Gln+(-0.1067)His+(-0.0059)Ala+(-0.0222)Arg+(-0.0322)Val+(0.1359)Ile;0.821,0.851,0.796,0.796,0.800,0.827,0.766,0.797,(3.7543)+(0.0442)Ser+(-0.0622)Asn+(-0.1355)Met+(0.0017)Lys+(0.0225)Leu+(-0.1423)Trp;0.821,0.848,0.828,0.835,0.820,0.859,0.806,0.830,(6.0057)+(0.0013)Gly+(0.0101)Gln+(-0.0961)His+(-0.0006)Ala+(-0.0377)Cit+(-0.1027)Trp;0.821,0.844,0.754,0.734,0.698,0.870,0.844,0.786,(1.1193)+(0.0227)Ser+(-0.0134)Ala+(-0.1083)Cit+(-0.0487)Val+(0.0396)Orn+(0.1717)Ile;0.821,0.854,0.850,0.862,0.836,0.831,0.861,0.847,(3.0860)+(-0.0887)Asn+(0.0010)Gly+(0.0059)Gln+(-0.0051)Ala+(0.0855)Phe+(-0.1536)Trp;0.821,0.848,0.731,0.693,0.727,0.828,0.769,0.754,(3.2431)+(0.0477)Ser+(-0.0586)Asn+(-0.1290)His+(-0.0155)Tyr+(-0.0065)Lys+(0.0668)Ile;0.821,0.847,0.713,0.692,0.705,0.790,0.730,0.729,(0.9713)+(0.0418)Ser

+(-0.1617)His+(0.0062)Thr+(-0.0492)Tyr+(0.0048)Leu+(0.1116)Phe;0.821,0.846,0.711,0.690,0.701,0.789,0.729,0.727,(0.7717)+(0.0444)Ser+(-0.1573)His+(0.0044)Pro+(-0.0494)Tyr+(0.0028)Leu+(0.1105)Phe;0.821,0.854,0.801,0.787,0.752,0.871,0.892,0.826,(4.2586)+(-0.0059)Ala+(0.0200)Tyr+(-0.0571)Val+(-0.2976)Met+(0.0077)Lys+(0.2023)Ile;0.821,0.848,0.727,0.684,0.736,0.832,0.749,0.750,(2.9981)+(0.0484)Ser+(-0.0648)Asn+(-0.1371)His+(-0.0153)Arg+(0.0161)Orn+(0.0554)Ile;0.821,0.858,0.850,0.864,0.847,0.817,0.842,0.842,(1.8494)+(0.0069)Gln+(-0.0022)Ala+(-0.0102)Arg+(-0.2132)Met+(0.1153)Phe+(-0.1467)Trp;0.821,0.854,0.791,0.762,0.797,0.825,0.831,0.804,(7.6528)+(0.0051)Asn+(-0.0774)His+(-0.0456)Cit+(0.0041)Tyr+(0.0685)Ile+(-0.1299)Trp;0.821,0.849,0.802,0.805,0.809,0.852,0.747,0.803,(8.6925)+(0.0015)Gly+(-0.0798)His+(0.0236)Thr+(-0.0016)Ala+(-0.0431)Cit+(-0.1093)Trp;0.821,0.847,0.798,0.789,0.805,0.834,0.782,0.803,(8.2298)+(-0.1018)His+(0.0212)Thr+(-0.0028)Ala+(0.0044)Tyr+(0.0086)Val+(-0.1154)Trp;0.821,0.853,0.808,0.798,0.815,0.784,0.834,0.808,(3.5064)+(0.0030)Pro+(-0.2430)Met+(-0.0002)Lys+(0.0500)Ile+(0.0874)Phe+(-0.1525)Trp;0.821,0.851,0.765,0.742,0.761,0.800,0.811,0.778,(2.4049)+(0.0465)Ser+(-0.0082)Gly+(-0.0013)Pro+(-0.0156)Lys+(0.0653)Ile+(-0.1620)Trp;0.821,0.848,0.715,0.675,0.692,0.829,0.787,0.746,(2.4300)+(0.0325)Ser+(-0.1250)His+(-0.0290)Val+(0.0152)Orn+(0.1196)Ile+(-0.0032)Leu;0.821,0.847,0.815,0.815,0.808,0.839,0.809,0.818,(5.5553)+(0.0007)Gly+(0.0092)Gln+(-0.1172)His+(0.0128)Tyr+(0.0046)Lys+(-0.1089)Trp;0.821,0.854,0.777,0.768,0.735,0.873,0.821,0.799,(0.6259)+(0.0432)Ser+(-0.0488)Asn+(-0.0077)Ala+(-0.2150)Met+(0.1803)Ile+(-0.0732)Leu;0.821,0.847,0.772,0.753,0.756,0.822,0.823,0.788,(1.7582)+(-0.0874)Asn+(0.0042)Gly+(0.0103)Gln+(-0.1623)His+(0.0299)Ile+(0.0641)Phe;0.821,0.846,0.825,0.823,0.841,0.857,0.774,0.824,(6.2073)+(0.0047)Gln+(-0.0049)Ala+(-0.1175)Cit+(0.0596)Orn+(-0.0061)Lys+(-0.1473)Trp;0.821,0.845,0.775,0

.767,0.753,0.815,0.812,0.787,(1.8728)+(0.0112)Gln+(-0.1635)His+(-0.0232)Arg+(-0.0472)Tyr+(0.0365)Ile+(0.0850)Phe;0.821,0.844,0.722,0.688,0.724,0.812,0.745,0.742,(1.2587)+(0.0460)Ser+(-0.1616)His+(0.0037)Thr+(-0.0008)Val+(-0.0132)Lys+(0.1041)Phe;0.821,0.844,0.726,0.696,0.695,0.829,0.793,0.753,(2.4220)+(0.0310)Ser+(0.0022)Gln+(-0.1238)His+(-0.0168)Tyr+(-0.0261)Val+(0.1155)Ile;0.821,0.850,0.718,0.685,0.692,0.828,0.783,0.747,(2.8871)+(0.0311)Ser+(-0.1196)His+(-0.0214)Tyr+(-0.0286)Val+(0.0199)Orn+(0.1183)Ile;0.821,0.852,0.809,0.809,0.821,0.849,0.756,0.809,(9.4290)+(-0.0377)Asn+(-0.0741)His+(0.0281)Thr+(-0.0388)Cit+(-0.0038)Arg+(-0.1100)Trp;0.821,0.851,0.740,0.714,0.744,0.817,0.745,0.755,(-0.2886)+(0.0411)Ser+(0.0068)Gln+(-0.1787)His+(-0.0302)Arg+(0.0086)Orn+(0.0959)Phe;0.821,0.850,0

.840,0.850,0.842,0.808,0.832,0.833,(4.4789)+(-0.0208)Asn+(-0.0015)Ala+(-0.0050)Val+(-0.1644)Met+(0.1194)Phe+(-0.1325)Trp;0.821,0.846,0.807,0.793,0.823,0.840,0.789,0.811,(7.9538)+(-0.0637)Asn+(-0.1015)Cit+(-0.0269)Val+(0.0620)Orn+(0.0515)Leu+(-0.1442)Trp;0.821,0.845,0.783,0.764,0.761,0.839,0.836,0.800,(3.7534)+(-0.0776)Asn+(0.0093)Gln+(-0.1323)His+(0.0071)Thr+(0.0939)Ile+(-0.0361)Leu;0.821,0.850,0.738,0.704,0.710,0.810,0.836,0.765,(4.0320)+(-0.1190)His+(0.0141)Thr+(-0.0353)Val+(-0.0121)Lys+(0.1178)Ile+(0.0693)Phe;0.821,0.854,0.819,0.822,0.830,0.813,0.792,0.814,(2.8883)+(0.0027)Gly+(0.0051)Gln+(-0.1020)Cit+(-0.0087)Lys+(0.0982)Phe+(-0.1746)Trp;0.821,0.847,0.760,0.747,0.698,0.858,0.852,0.789,(3.1476)+(0.0499)Ser+(-0.1673)Asn+(-0.0057)Gly+(-0.0170)Tyr+(-0.0540)Val+(0.1707)Ile;0.821,0.846,0.757,0.725,0.748,0.812,0.818,0.776,(2.3073)+(0.0081)Gln+(-0.1721)His+(0.0101)Thr+(-0.0143)Lys+(0.0355)Ile+(0.0598)Phe;0.821,0.846,0.819,0.816,0.836,0.853,0.764,0.817,(6.0813)+(0.0033)Gln+(0.0070)Thr+(-0.0056)Ala+(-0.1157)Cit+(0.0533)Orn+(-0.1564)Trp;0.821,0.850,0.794,0.793,0.774,0.807,0.831,0.801,(4.1014)+(

-0.0015)Gly+(0.0026)Gln+(-0.0011)Thr+(0.1389)Ile+(-0.0653)Leu+(-0.150
6)Trp;0.821,0.846,0.823,0.829,0.816,0.845,0.806,0.824,(5.7716)+(0.011
0)Gln+(-0.1141)His+(-0.0005)Ala+(-0.0192)Arg+(0.0101)Lys+(-0.1036)Trp
;0.821,0.843,0.727,0.693,0.722,0.805,0.769,0.747,(-0.2010)+(0.0398)Se
r+(0.0046)Gln+(-0.1793)His+(-0.0049)Thr+(0.0031)Leu+(0.0851)Phe;0.821
,0.861,0.799,0.787,0.807,0.789,0.824,0.802,(4.4663)+(-0.0830)Asn+(0.0
167)Thr+(-0.0083)Lys+(0.0400)Ile+(0.0600)Phe+(-0.1708)Trp;0.821,0.857
,0.826,0.819,0.834,0.809,0.840,0.826,(4.8334)+(-0.0639)Cit+(-0.0237)V
al+(-0.1782)Met+(0.0457)Leu+(0.1210)Phe+(-0.1475)Trp;0.821,0.856,0.83
6,0.849,0.840,0.796,0.825,0.827,(1.4479)+(0.0008)Gly+(0.0060)Gln+(-0.
2498)Met+(0.0021)Lys+(0.1124)Phe+(-0.1502)Trp;0.821,0.856,0.838,0.849
,0.842,0.799,0.827,0.829,(1.4910)+(0.0008)Gly+(0.0061)Gln+(-0.2462)Me
t+(0.0017)Leu+(0.1120)Phe+(-0.1498)Trp;0.821,0.853,0.814,0.828,0.815,
0.849,0.748,0.810,(3.9206)+(0.0360)Ser+(-0.1104)Asn+(0.0040)Gln+(-0.0
158)Arg+(0.0214)Orn+(-0.1347)Trp;0.821,0.851,0.813,0.816,0.827,0.808,
0.779,0.808,(4.8560)+(-0.0690)Asn+(0.0056)Gly+(-0.0947)Cit+(0.0061)Ar
g+(0.1002)Phe+(-0.1587)Trp;0.821,0.848,0.806,0.802,0.748,0.876,0.884,
0.828,(3.4432)+(0.0047)Gln+(-0.0055)Ala+(-0.0082)Arg+(-0.0524)Val+(-0
.2590)Met+(0.1943)Ile;0.821,0.847,0.802,0.798,0.752,0.872,0.865,0.822
,(3.7470)+(-0.0694)Asn+(0.0018)Gly+(0.0056)Gln+(-0.0547)Val+(-0.2522)
Met+(0.1876)Ile;0.821,0.857,0.828,0.836,0.831,0.792,0.824,0.821,(5.02
50)+(-0.0644)Asn+(-0.0095)Arg+(0.0062)Pro+(-0.0091)Val+(0.0930)Phe+(-
0.1438)Trp;0.821,0.850,0.818,0.813,0.799,0.835,0.856,0.826,(4.0769)+(
0.0054)Gln+(-0.0070)Ala+(0.0069)Pro+(-0.1748)Met+(0.0691)Ile+(-0.1452
)Trp;0.821,0.849,0.819,0.835,0.808,0.856,0.776,0.819,(4.5100)+(0.0309
)Ser+(-0.1171)Asn+(0.0039)Gln+(0.0086)Thr+(-0.0024)Ala+(-0.1371)Trp;0
.821,0.848,0.785,0.759,0.800,0.815,0.797,0.793,(7.5743)+(-0.1046)His+
(0.0037)Pro+(0.0278)Orn+(0.0032)Lys+(0.0168)Leu+(-0.1158)Trp;0.821,0.

855,0.798,0.795,0.804,0.821,0.779,0.800,(4.0384)+(0.0052)Gln+(0.0269)Thr+(-0.0191)Arg+(-0.2515)Met+(0.0662)Ile+(-0.1569)Trp;0.821,0.850,0.770,0.757,0.725,0.881,0.823,0.796,(1.4657)+(0.0342)Ser+(-0.0126)Ala+(-0.0951)Cit+(-0.0147)Lys+(0.1864)Ile+(-0.0749)Leu;0.821,0.847,0.778,0.757,0.764,0.860,0.803,0.796,(2.6359)+(0.0382)Ser+(-0.0876)Asn+(0.0080)Gln+(-0.1484)His+(-0.0034)Ala+(0.0235)Leu;0.821,0.854,0.799,0.792,0.789,0.810,0.829,0.805,(3.7499)+(0.0178)Thr+(-0.0100)Ala+(-0.0264)Arg+(0.0559)Ile+(0.0679)Phe+(-0.1785)Trp;0.821,0.852,0.765,0.741,0.760,0.797,0.812,0.778,(2.3581)+(0.0465)Ser+(-0.0083)Gly+(0.0001)Gln+(-0.0158)Lys+(0.0635)Ile+(-0.1626)Trp;0.821,0.851,0.819,0.812,0.833,0.799,0.820,0.816,(5.5377)+(-0.0566)Asn+(-0.0878)Cit+(0.0047)Arg+(0.0054)Pro+(0.0897)Phe+(-0.1634)Trp;0.821,0.849,0.794,0.793,0.773,0.806,0.830,0.801,(4.1152)+(-0.0016)Gly+(0.0025)Gln+(-0.0011)Orn+(0.1385)Ile+(-0.0650)Leu+(-0.1515)Trp;0.821,0.846,0.819,0.825,0.812,0.841,0.798,0.819,(5.6845)+(0.0008)Gly+(0.0109)Gln+(-0.1153)His+(-0.0197)Arg+(0.0101)Lys+(-0.1041)Trp;0.821,0.853,0.733,0.697,0.754,0.831,0.715,0.749,(3.1696)+(0.0437)Ser+(-0.1382)His+(0.0196)Thr+(0.0083)Pro+(-0.2606)Met+(0.0296)Leu;0.821,0.856,0.793,0.763,0.797,0.828,0.837,0.806,(7.5379)+(-0.0769)His+(-0.0494)Cit+(0.0059)Arg+(0.0028)Tyr+(0.0685)Ile+(-0.1304)Trp;0.821,0.852,0.812,0.805,0.790,0.824,0.863,0.821,(4.0535)+(-0.0543)Asn+(0.0025)Gly+(-0.0083)Ala+(0.0547)Ile+(0.0645)Phe+(-0.1604)Trp;0.821,0.851,0.812,0.813,0.829,0.804,0.776,0.806,(4.8672)+(-0.0628)Asn+(0.0058)Gly+(-0.0917)Cit+(0.0043)Leu+(0.0973)Phe+(-0.1619)Trp;0.821,0.850,0.818,0.814,0.839,0.849,0.765,0.816,(5.5238)+(0.0053)Gln+(-0.1042)Cit+(0.0080)Pro+(-0.1207)Met+(0.0458)Orn+(-0.1515)Trp;0.821,0.844,0.731,0.689,0.735,0.831,0.765,0.755,(3.0748)+(0.0502)Ser+(-0.0695)Asn+(-0.0012)Gly+(-0.1285)His+(-0.0369)Cit+(0.0597)Ile;0.821,0.842,0.764,0.742,0.726,0.837,0.847,0.788,(5.8986)+(-0.0847)His+(-0.0064)Ala+(-0.018

3)Arg+(-0.0401)Val+(0.0346)Orn+(0.1474)Ile;0.821,0.856,0.800,0.806,0.806,0.777,0.790,0.795,(3.4022)+(0.0100)Thr+(0.0028)Pro+(-0.0076)Val+(-0.0068)Lys+(0.0838)Phe+(-0.1668)Trp;0.821,0.851,0.813,0.794,0.805,0.843,0.862,0.826,(6.2755)+(-0.0086)Ala+(-0.0851)Cit+(0.0059)Arg+(0.0091)Tyr+(0.0808)Ile+(-0.1637)Trp;0.821,0.850,0.788,0.762,0.789,0.819,0.833,0.801,(7.5204)+(0.0050)Asn+(-0.0931)His+(-0.0026)Arg+(0.0008)Tyr+(0.0654)Ile+(-0.1203)Trp;0.821,0.848,0.781,0.776,0.745,0.820,0.840,0.795,(5.8808)+(0.0006)Gly+(-0.0208)Arg+(-0.0430)Val+(0.0025)Lys+(0.1566)Ile+(-0.1304)Trp;0.821,0.846,0.717,0.700,0.706,0.793,0.728,0.732,(1.0404)+(0.0414)Ser+(-0.1581)His+(0.0066)Thr+(-0.0479)Tyr+(-0.0014)Val+(0.1186)Phe;0.821,0.847,0.797,0.792,0.805,0.835,0.766,0.799,(8.6540)+(-0.0990)His+(0.0252)Thr+(-0.0023)Ala+(-0.0111)Arg+(0.0083)Val+(-0.1137)Trp;0.821,0.855,0.825,0.824,0.823,0.802,0.851,0.825,(4.0008)+(0.0002)Arg+(-0.0311)Val+(-0.2143)Met+(0.0545)Leu+(0.1181)Phe+(-0.1400)Trp;0.821,0.845,0.810,0.805,0.834,0.844,0.747,0.808,(7.3756)+(0.0120)Thr+(-0.0053)Ala+(-0.1106)Cit+(-0.0073)Arg+(0.0561)Orn+(-0.1519)Trp;0.821,0.850,0.787,0.756,0.807,0.835,0.790,0.797,(8.0678)+(-0.0785)His+(-0.0743)Cit+(-0.0192)Val+(0.0571)Orn+(0.0494)Leu+(-0.1231)Trp;0.821,0.847,0.794,0.794,0.773,0.811,0.827,0.801,(4.0377)+(0.0025)Gln+(-0.0009)Thr+(-0.0046)Pro+(0.1471)Ile+(-0.0668)Leu+(-0.1497)Trp;0.821,0.846,0.805,0.786,0.827,0.844,0.783,0.810,(8.6940)+(-0.0709)His+(-0.0038)Ala+(-0.0860)Cit+(0.0071)Val+(0.0588)Orn+(-0.1157)Trp;0.821,0.852,0.820,0.830,0.821,0.807,0.801,0.815,(2.9491)+(0.0035)Gln+(0.0174)Thr+(-0.0071)Ala+(-0.0289)Arg+(0.0914)Phe+(-0.1764)Trp;0.821,0.849,0.783,0.780,0.748,0.819,0.837,0.796,(5.9685)+(-0.0237)Arg+(-0.0345)Val+(0.0055)Lys+(0.1788)Ile+(-0.0305)Leu+(-0.1283)Trp;0.821,0.855,0.792,0.783,0.799,0.812,0.789,0.796,(5.6595)+(-0.0244)Asn+(0.0263)Thr+(-0.2187)Met+(-0.0013)Lys+(0.0649)Ile+(-0.1507)Trp;0.821,0.853,0.799,0.791,0.803,0.81

9,0.801,0.803,(3.6275)+(0.0043)Gln+(0.0216)Thr+(0.0108)Tyr+(-0.2774)Met+(0.0652)Ile+(-0.1601)Trp;0.821,0.851,0.778,0.752,0.775,0.850,0.802,0.795,(1.8057)+(0.0445)Ser+(-0.0047)Gly+(0.0081)Gln+(-0.1496)His+(-0.1809)Met+(0.0287)Leu;0.821,0.847,0.744,0.719,0.746,0.821,0.749,0.759,(-0.3102)+(0.0413)Ser+(0.0073)Gln+(-0.1750)His+(-0.0222)Cit+(-0.0262)Arg+(0.0998)Phe;0.821,0.846,0.741,0.713,0.718,0.844,0.788,0.766,(2.0803)+(0.0353)Ser+(0.0049)Gln+(-0.1241)His+(-0.0299)Arg+(-0.0292)Val+(0.1247)Ile;0.821,0.843,0.716,0.668,0.717,0.824,0.759,0.742,(2.6180)+(0.0433)Ser+(-0.1439)His+(0.0008)Thr+(-0.0015)Pro+(-0.0126)Lys+(0.0665)Ile;0.821,0.850,0.787,0.771,0.796,0.831,0.779,0.794,(8.3562)+(-0.1075)His+(0.0267)Thr+(-0.0030)Ala+(-0.0109)Arg+(0.0273)Leu+(-0.1210)Trp;0.821,0.846,0.750,0.727,0.711,0.814,0.843,0.774,(2.3270)+(0.0010)Gly+(0.0049)Gln+(-0.1366)His+(-0.0314)Val+(0.1021)Ile+(0.0608)Phe;0.821,0.853,0.824,0.830,0.820,0.816,0.823,0.822,(4.8896)+(-0.0959)Asn+(0.0205)Thr+(-0.0063)Ala+(0.0052)Orn+(0.0847)Phe+(-0.1555)Trp;0.821,0.851,0.800,0.791,0.807,0.841,0.782,0.805,(2.5509)+(0.0430)Ser+(-0.0029)Ala+(0.0341)Tyr+(-0.2195)Met+(0.0250)Leu+(-0.1523)Trp;0.821,0.858,0.813,0.805,0.805,0.833,0.838,0.820,(0.9799)+(0.0125)Gln+(-0.1539)His+(-0.0003)Ala+(-0.0091)Tyr+(-0.2213)Met+(0.1283)Phe;0.821,0.847,0.757,0.721,0.773,0.829,0.768,0.773,(5.7448)+(0.0250)Asn+(-0.1222)His+(0.0336)Thr+(-0.0407)Cit+(-0.2705)Met+(0.0731)Ile;0.821,0.856,0.834,0.844,0.834,0.796,0.837,0.828,(3.0238)+(-0.1007)Asn+(0.0008)Gly+(0.0056)Gln+(0.0022)Pro+(0.0736)Phe+(-0.1615)Trp;0.821,0.849,0.762,0.731,0.770,0.817,0.790,0.777,(3.0649)+(0.0077)Gly+(-0.1342)His+(-0.2497)Met+(0.0054)Orn+(0.0508)Ile+(0.1055)Phe;0.821,0.847,0.745,0.717,0.740,0.836,0.763,0.764,(1.5081)+(0.0485)Ser+(-0.1438)His+(-0.0042)Ala+(-0.0379)Cit+(-0.0106)Lys+(0.1120)Phe;0.821,0.851,0.821,0.828,0.818,0.842,0.797,0.821,(5.2201)+(0.0482)Ser+(-0.0664)Asn+(-0.0071)Gly+(-0.0957)Met+(0.0062)Ly

s+(-0.1335)Trp;0.821,0.850,0.809,0.821,0.806,0.842,0.759,0.807,(3.9792)+(0.0335)Ser+(-0.1253)Asn+(0.0032)Gln+(0.0035)Thr+(0.0165)Orn+(-0.1391)Trp;0.821,0.850,0.802,0.799,0.798,0.826,0.804,0.807,(4.7701)+(0.0502)Ser+(-0.1075)Asn+(-0.0073)Gly+(0.0081)Pro+(0.0010)Lys+(-0.1395)Trp;0.821,0.849,0.799,0.813,0.813,0.850,0.697,0.793,(5.1586)+(0.0304)Ser+(0.0199)Thr+(-0.0004)Ala+(-0.0155)Arg+(-0.1665)Met+(-0.1379)Trp;0.821,0.849,0.781,0.774,0.746,0.822,0.841,0.796,(5.9499)+(0.0006)Gly+(-0.0194)Arg+(0.0007)Pro+(-0.0425)Val+(0.1564)Ile+(-0.1285)Trp;0.821,0.847,0.715,0.665,0.720,0.827,0.757,0.742,(2.6030)+(0.0424)Ser+(-0.1462)His+(-0.0022)Pro+(0.0150)Orn+(-0.0137)Lys+(0.0642)Ile;0.821,0.851,0.779,0.758,0.752,0.850,0.842,0.801,(5.9571)+(0.0042)Gly+(-0.0671)His+(0.0003)Arg+(-0.0412)Val+(-0.2139)Met+(0.1683)Ile;0.821,0.853,0.789,0.787,0.799,0.778,0.783,0.787,(3.8444)+(0.0196)Thr+(-0.0286)Arg+(-0.0301)Val+(0.0456)Leu+(0.0882)Phe+(-0.1796)Trp;0.821,0.851,0.831,0.832,0.848,0.799,0.816,0.824,(4.9264)+(-0.0191)Asn+(-0.0716)Cit+(-0.1590)Met+(0.0064)Lys+(0.1178)Phe+(-0.1527)Trp;0.821,0.844,0.808,0.804,0.830,0.847,0.745,0.806,(7.0250)+(0.0012)Gly+(0.0093)Thr+(-0.0054)Ala+(-0.1161)Cit+(0.0562)Orn+(-0.1518)Trp;0.821,0.850,0.796,0.791,0.729,0.856,0.903,0.820,(4.0324)+(-0.1110)Asn+(-0.0080)Ala+(-0.0123)Arg+(-0.0606)Val+(0.1819)Ile+(0.0739)Phe;0.821,0.848,0.791,0.790,0.770,0.806,0.824,0.798,(3.9814)+(0.0024)Gln+(-0
.0020)Thr+(-0.0007)Orn+(0.1402)Ile+(-0.0657)Leu+(-0.1501)Trp;0.821,0.842,0.780,0.765,0.728,0.850,0.877,0.805,(6.4715)+(-0.0590)Asn+(-0.0705)His+(-0.0060)Ala+(-0.0405)Val+(0.0048)Lys+(0.1512)Ile;0.821,0.850,0.806,0.805,0.754,0.869,0.873,0.825,(3.7371)+(-0.0749)Asn+(0.0055)Gln+(-0.0577)Val+(-0.2713)Met+(0.0085)Lys+(0.1898)Ile;0.821,0.849,0.789,0.781,0.721,0.850,0.907,0.815,(3.9798)+(-0.1283)Asn+(-0.0092)Ala+(0.0051)Pro+(-0.0597)Val+(0.1746)Ile+(0.0681)Phe;0.821,0.849,0.724,0.689,0

.707,0.835,0.769,0.750,(2.9633)+(0.0374)Ser+(-0.1125)His+(-0.0281)Arg+(-0.0345)Val+(0.0240)Orn+(0.1324)Ile;0.821,0.847,0.798,0.784,0.809,0.820,0.798,0.803,(4.1314)+(0.0025)Gly+(0.0047)Gln+(-0.0907)Cit+(-0.0070)Arg+(0.0638)Ile+(-0.1825)Trp;0.821,0.850,0.811,0.809,0.811,0.832,0.798,0.813,(4.9253)+(0.0479)Ser+(-0.1035)Asn+(-0.0076)Gly+(0.0232)Orn+(-0.0013)Lys+(-0.1358)Trp;0.821,0.850,0.781,0.777,0.747,0.823,0.834,0.795,(6.0023)+(0.0009)Gly+(-0.0204)Arg+(-0.0347)Val+(0.1768)Ile+(-0.0263)Leu+(-0.1247)Trp;0.821,0.852,0.788,0.780,0.806,0.832,0.742,0.790,(8.3844)+(-0.0971)His+(0.0214)Thr+(-0.0164)Arg+(-0.0024)Tyr+(0.0326)Orn+(-0.1069)Trp;0.821,0.850,0.782,0.760,0.803,0.822,0.769,0.789,(8.1079)+(-0.0991)His+(0.0243)Thr+(-0.0446)Cit+(-0.0017)Tyr+(0.0266)Leu+(-0.1297)Trp;0.821,0.847,0.746,0.721,0.709,0.811,0.839,0.770,(2.4311)+(0.0046)Gln+(-0.1385)His+(0.0049)Thr+(-0.0317)Val+(0.1019)Ile+(0.0601)Phe;0.821,0.851,0.820,0.814,0.836,0.797,0.817,0.816,(5.6011)+(-0.0521)Asn+(-0.0849)Cit+(0.0056)Pro+(0.0002)Leu+(0.0901)Phe+(-0.1631)Trp;0.821,0.847,0.718,0.679,0.695,0.830,0.791,0.749,(2.5127)+(0.0323)Ser+(-0.1253)His+(-0.0027)Pro+(-0.0298)Val+(0.0167)Orn+(0.1202)Ile;0.821,0.847,0.798,0.797,0.777,0.812,0.834,0.805,(4.1647)+(-0.0015)Gly+(0.0027)Gln+(-0.0046)Pro+(0.1460)Ile+(-0.0665)Leu+(-0.1503)Trp;0.821,0.849,0.830,0.829,0.840,0.812,0.823,0.826,(5.6654)+(-0.0579)Asn+(-0.0829)Cit+(0.0059)Arg+(-0.0030)Val+(0.0994)Phe+(-0.1549)Trp;0.821,0.847,0.781,0.788,0.718,0.819,0.867,0.798,(4.2580)+(-0.1178)Asn+(-0.0131)Arg+(-0.0467)Tyr+(-0.0594)Val+(0.1693)Ile+(0.0911)Phe;0.821,0.845,0.721,0.683,0.698,0.828,0.794,0.751,(2.8620)+(0.0375)Ser+(-0.1135)His+(0.0006)Thr+(-0.0281)Val+(-0.0109)Lys+(0.1259)Ile;0.821,0.843,0.727,0.696,0.722,0.806,0.766,0.747,(-0.1878)+(0.0399)Ser+(0.0045)Gln+(-0.1777)His+(-0.0053)Thr+(0.0011)Pro+(0.0876)Phe;0.821,0.854,0.792,0.789,0.791,0.768,0.822,0.792,(3.3131)+(-0.0009)Gly+(0.0097)Thr+(-0.0280)Val+(0.0424)

Leu+(0.0751)Phe+(-0.1790)Trp;0.821,0.852,0.767,0.749,0.758,0.801,0.810,0.779,(2.7580)+(0.0463)Ser+(-0.0085)Gly+(-0.0181)Tyr+(-0.0137)Lys+(0.0655)Ile+(-0.1560)Trp;0.821,0.849,0.762,0.731,0.768,0.814,0.791,0.776,(2.9546)+(0.0080)Gly+(-0.1360)His+(-0.2592)Met+(0.0030)Lys+(0.0511)Ile+(0.1079)Phe;0.821,0.849,0.717,0.675,0.707,0.827,0.770,0.745,(2.3549)+(0.0352)Ser+(-0.1398)His+(-0.0033)Pro+(0.0111)Orn+(0.1047)Ile+(-0.0354)Leu;0.821,0.848,0.809,0.802,0.834,0.838,0.755,0.807,(5.8510)+(0.0041)Gln+(-0.1195)Cit+(0.0052)Pro+(0.0523)Orn+(-0.0079)Lys+(-0.1616)Trp;0.821,0.847,0.780,0.785,0.716,0.817,0.872,0.797,(4.0639)+(-0.1346)Asn+(-0.0001)Pro+(-0.0474)Tyr+(-0.0583)Val+(0.1651)Ile+(0.0879)Phe;0.821,0.844,0.759,0.732,0.748,0.851,0.785,0.779,(2.4796)+(0.0354)Ser+(0.0061)Gln+(-0.1571)His+(-0.0040)Ala+(-0.0097)Lys+(0.0276)Leu;0.821,0.851,0.837,0.839,0.839,0.827,0.834,0.835,(5.7829)+(-0.0419)Asn+(-0.0046)Ala+(-0.0808)Cit+(-0.0002)Val+(0.1064)Phe+(-0.1523)Trp;0.821,0.848,0.793,0.766,0.822,0.834,0.776,0.800,(8.3043)+(-0.0089)Asn+(-0.0783)His+(-0.0779)Cit+(0.0537)Orn+(0.0187)Leu+(-0.1250)Trp;0.821,0.847,0.797,0.781,0.759,0.874,0.862,0.819,(3.5664)+(0.0085)Gln+(-0.1085)His+(-0.0084)Ala+(-0.0650)Cit+(0.1350)Ile+(-0.0481)Leu;0.821,0.845,0.797,0.777,0.821,0.834,0.776,0.802,(7.1759)+(-0.1132)Cit+(-0.0231)Val+(0.0626)Orn+(-0.0093)Lys+(0.0509)Leu+(-0.1565)Trp;0.821,0.855,0.815,0.826,0.818,0.773,0.812,0.807,(3.4547)+(0.0103)Pro+(-0.0110)Val+(-0.2500)Met+(0.0100)Lys+(0.1206)Phe+(-0.1393)Trp;0.821,0.847,0.714,0.663,0.719,0.827,0.757,0.742,(2.5104)+(0.0430)Ser+(-0.1455)His+(-0.0013)Thr+(0.0143)Orn+(-0.0135)Lys+(0.0614)Ile;0.821,0.847,0.793,0.781,0.814,0.828,0.759,0.795,(8.3302)+(-0.0918)His+(0.0221)Thr+(-0.0448)Cit+(0.0085)Val+(0.0016)Lys+(-0.1236)Trp;0.821,0.851,0.752,0.721,0.781,0.850,0.703,0.764,(4.0453)+(0.0430)Ser+(-0.1115)His+(-0.0649)Cit+(0.0110)Pro+(-0.1756)Met+(0.0440)Orn;0.821,0.844,0.821,0.815,0.841,0.849,0.774,0.820,(

8.2559)+(-0.0408)Asn+(-0.0037)Ala+(-0.1091)Cit+(-0.0072)Met+(0.0625)O
rn+(-0.1352)Trp;0.821,0.850,0.808,0.800,0.760,0.873,0.881,0.828,(3.56
12)+(-0.0633)Asn+(0.0059)Gln+(0.0158)Tyr+(-0.0563)Val+(-0.2830)Met+(0
.1900)Ile;0.821,0.848,0.790,0.778,0.788,0.827,0.800,0.798,(2.6208)+(-
0.0892)Asn+(0.0121)Gln+(-0.1677)His+(0.0200)Thr+(-0.0247)Arg+(0.0835)
Phe;0.821,0.850,0.785,0.770,0.798,0.831,0.762,0.790,(4.4647)+(0.0356)
Ser+(-0.0744)Cit+(-0.0150)Val+(-0.0095)Lys+(0.0478)Leu+(-0.1611)Trp;0
.821,0.849,0.806,0.818,0.803,0.849,0.748,0.805,(3.4387)+(0.0313)Ser+(
0.0022)Gln+(-0.0014)Ala+(-0.1514)Met+(0.0214)Orn+(-0.1366)Trp;0.821,0
.847,0.757,0.716,0.781,0.833,0.759,0.772,(5.9308)+(-0.1213)His+(0.030
8)Thr+(-0.0555)Cit+(-0.2391)Met+(0.0265)Orn+(0.0628)Ile;0.821,0.852,0
.808,0.811,0.765,0.842,0.870,0.822,(-1.0533)+(0.0046)Gln+(-0.0076)Ala
+(-0.3160)Met+(0.1873)Ile+(-0.0961)Leu+(0.1072)Phe;0.821,0.850,0.726,
0.679,0.728,0.829,0.770,0.752,(2.8543)+(0.0462)Ser+(-0.0771)Asn+(-0.1
399)His+(-0.0011)Pro+(0.0135)Orn+(0.0565)Ile;0.821,0.849,0.726,0.687,
0.713,0.830,0.779,0.752,(1.6082)+(0.0316)Ser+(0.0035)Gln+(-0.1498)His
+(0.0048)Orn+(0.0946)Ile+(-0.0320)Leu;0.821,0.853,0.810,0.808,0.823,0
.847,0.765,0.810,(9.2680)+(-0.0408)Asn+(-0.0749)His+(0.0263)Thr+(-0.0
419)Cit+(0.0077)Tyr+(-0.1134)Trp;0.821,0.851,0.799,0.794,0.789,0.824,
0.817,0.806,(6.2738)+(-0.0348)Asn+(-0.0182)Arg+(0.0174)Orn+(0.1430)Il
e+(-0.0677)Leu+(-0.1304)Trp;0.821,0.844,0.769,0.744,0.765,0.849,0.786
,0.786,(3.2299)+(0.0371)Ser+(-0.0064)Gly+(0.0062)Gln+(-0.1482)His+(0.
0232)Orn+(-0.0084)Lys;0.820,0.850,0.834,0.834,0.830,0.860,0.826,0.837
,(6.0130)+(0.0103)Gln+(-0.1016)His+(-0.0017)Ala+(-0.0385)Cit+(0.0221)
Tyr+(-0.1107)Trp;0.820,0.844,0.809,0.802,0.832,0.842,0.754,0.808,(7.0
788)+(0.0099)Thr+(-0.0059)Ala+(-0.1169)Cit+(0.0030)Val+(0.0543)Orn+(-
0.1564)Trp;0.820,0.859,0.809,0.798,0.815,0.817,0.821,0.813,(6.3075)+(
-0.0889)His+(-0.0539)Cit+(0.0042)Arg+(-0.0144)Tyr+(0.1223)Phe+(-0.121

7)Trp;0.820,0.850,0.808,0.802,0.782,0.813,0.872,0.817,(2.4746)+(0.002
9)Gln+(-0.0098)Ala+(-0.0072)Orn+(0.0587)Ile+(0.0584)Phe+(-0.1780)Trp;
0.820,0.849,0.787,0.765,0.772,0.829,0.848,0.804,(2.2603)+(-0.0666)Asn
+(0.0112)Gln+(-0.1587)His+(-0.0069)Lys+(0.0326)Ile+(0.0606)Phe;0.820,
0.847,0.729,0.688,0.733,0.831,0.755,0.752,(3.0724)+(0.0503)Ser+(-0.05
38)Asn+(-0.1318)His+(-0.0113)Arg+(-0.0061)Lys+(0.0642)Ile;0.820,0.845
,0.764,0.752,0.736,0.809,0.822,0.780,(2.0054)+(0.0084)Gln+(-0.1627)Hi
s+(-0.0012)Pro+(-0.0482)Tyr+(0.0369)Ile+(0.0780)Phe;0.820,0.852,0.792
,0.771,0.788,0.854,0.809,0.805,(2.7792)+(0.0042)Gly+(0.0113)Gln+(-0.1
314)His+(-0.0536)Cit+(-0.2001)Met+(0.0719)Ile;0.820,0.852,0.786,0.786
,0.762,0.795,0.830,0.793,(3.2561)+(0.0120)Thr+(-0.0089)Ala+(-0.0313)T
yr+(0.0547)Ile+(0.0704)Phe+(-0.1716)Trp;0.820,0.851,0.775,0.761,0.802
,0.812,0.731,0.776,(4.0370)+(0.0346)Ser+(-0.0818)Cit+(-0.0081)Arg+(0.
0077)Pro+(0.0146)Leu+(-0.1737)Trp;0.820,0.849,0.787,0.782,0.772,0.804
,0.823,0.795,(4.8437)+(-0.0008)Gly+(0.0008)Thr+(0.0029)Orn+(0.1377)Il
e+(-0.0644)Leu+(-0.1471)Trp;0.820,0.847,0.784,0.752,0.779,0.829,0.848
,0.802,(3.8809)+(0.0413)Asn+(-0.1248)His+(-0.0047)Ala+(-0.2428)Met+(0
.0592)Ile+(0.0961)Phe;0.820,0.846,0.777,0.760,0.798,0.813,0.754,0.781
,(5.4554)+(0.0034)Gly+(-0.1153)Cit+(-0.0126)Tyr+(0.0404)Orn+(0.0546)I
le+(-0.1737)Trp;0.820,0.843,0.723,0.688,0.731,0.810,0.738,0.742,(1.09
92)+(0.0516)Ser+(-0.1595)His+(-0.0177)Arg+(-0.0104)Lys+(0.0071)Leu+(0
.1019)Phe;0.820,0.853,0.796,0.805,0.797,0.762,0.790,0.789,(3.1032)+(0
.0055)Thr+(0.0028)Pro+(-0.0093)Val+(0.0068)Orn+(0.0771)Phe+(-0.1678)T
rp;0.820,0.853,0.804,0.816,0.794,0.840,0.766,0.804,(3.9909)+(0.0367)S
er+(-0.1249)Asn+(0.0035)Gln+(0.0081)Pro+(-0.0028)Val+(-0.1333)Trp;0.8
20,0.852,0.797,0.779,0.811,0.827,0.795,0.803,(5.6846)+(0.0052)Gly+(-0
.0811)Cit+(0.0097)Arg+(-0.1369)Met+(0.0738)Ile+(-0.1539)Trp;0.820,0.8
52,0.789,0.763,0.790,0.818,0.835,0.801,(7.5729)+(-0.0917)His+(-0.0022

)Arg+(0.0008)Pro+(0.0003)Tyr+(0.0642)Ile+(-0.1198)Trp;0.820,0.851,0.811,0.824,0.807,0.842,0.764,0.809,(3.8570)+(0.0348)Ser+(-0.1206)Asn+(0.0033)Gln+(0.0183)Orn+(-0.0005)Lys+(-0.1368)Trp;0.820,0.844,0.787,0.778,0.742,0.854,0.854,0.807,(3.8493)+(0.0071)Gln+(-0.1195)His+(-0.0063)Ala+(-0.0176)Tyr+(0.1188)Ile+(-0.0421)Leu;0.820,0.854,0.838,0.836,0.856,0.813,0.823,0.832,(5.1519)+(-0.0135)Asn+(-0.0730)Cit+(0.0067)Tyr+(-0.1518)Met+(0.1184)Phe+(-0.1501)Trp;0.820,0.852,0.788,0.777,0.798,0.831,0.764,0.793,(3.7775)+(0.0305)Ser+(0.0014)Gln+(-0.0776)Cit+(-0.0148)Val+(0.0408)Leu+(-0.1704)Trp;0.820,0.844,0.789,0.773,0.790,0.826,0.802,0.798,(7.7728)+(0.0038)Gly+(-0.0953)His+(-0.0044)Ala+(0.0088)Pro+(0.0247)Leu+(-0.1101)Trp;0.820,0.843,0.719,0.683,0.692,0.832,0.792,0.750,(2.5400)+(0.0343)Ser+(-0.1209)His+(-0.0018)Pro+(-0.0273)Val+(0.1256)Ile+(-0.0055)Leu;0.820,0.858,0.802,0.800,0.797,0.785,0.833,0.803,(3.6677)+(-0.0292)Val+(0.0169)Orn+(-0.0075)Lys+(0.0470)Leu+(0.0755)Phe+(-0.1646)Trp;0.820,0.850,0.725,0.681,0.745,0.831,0.723,0.745,(1.4122)+(0.0468)Ser+(-0.1472)His+(-0.0684)Cit+(0.0391)Orn+(-0.0184)Lys+(0.1021)Phe;0.820,0.850,0.802,0.794,0.809,0.840,0.780,0.806,(3.7108)+(0.0300)Ser+(0.0023)Gln+(-0.0050)Ala+(-0.0820)Cit+(0.0237)Leu+(-0.1663)Trp;0.820,0.849,0.783,0.768,0.744,0.855,0.853,0.805,(5.2884)+(-0.0550)Asn+(0.0015)Pro+(-0.0583)Val+(-0.2394)Met+(0.0312)Orn+(0.1866)Ile;0.820,0.848,0.790,0.773,0.812,0.825,0.760,0.793,(6.3004)+(0.0088)Thr+(-0.1102)Cit+(-0.0234)Val+(0.0518)Orn+(0.0463)Leu+(-0.1714)Trp;0.820,0.848,0.731,0.705,0.718,0.831,0.752,0.751,(3.0271)+(0.0422)Ser+(-0.1172)His+(-0.0229)Arg+(-0.0186)Tyr+(0.1219)Ile+(-0.0424)Leu;0.820,0.845,0.721,0.683,0.697,0.828,0.794,0.751,(2.8517)+(0.0377)Ser+(-0.1133)His+(-0.0282)Val+(-0.0107)Lys+(0.1255)Ile+(0.0005)Leu;0.820,0.857,0.803,0.774,0.810,0.834,0.847,0.816,(7.5019)+(-0.0816)His+(0.0041)Arg+(0.0181)Tyr+(-0.1190)Met+(0.0707)Ile+(-0.1167)Trp;0.820,0.856,0.806,0.789,0.

761,0.877,0.894,0.830,(5.2071)+(-0.0067)Ala+(-0.0467)Cit+(0.0189)Tyr+(-0.0521)Val+(-0.2359)Met+(0.1983)Ile;0.820,0.851,0.804,0.796,0.760,0.875,0.865,0.824,(3.2273)+(0.0056)Gln+(-0.0526)Cit+(0.0001)Arg+(-0.0514)Val+(-0.2953)Met+(0.1859)Ile;0.820,0.849,0.826,0.836,0.818,0.845,0.802,0.825,(3.6716)+(0.0424)Ser+(-0.0081)Gly+(0.0036)Gln+(0.0003)Ala+(-0.1498)Met+(-0.1370)Trp;0.820,0.848,0.821,0.825,0.815,0.851,0.799,0.823,(5.7582)+(0.0015)Gly+(0.0095)Gln+(-0.1012)His+(-0.0372)Cit+(0.0055)Lys+(-0.1077)Trp;0.820,0.848,0.793,0.784,0.740,0.867,0.870,0.815,(4.5677)+(0.0023)Gly+(-0.0057)Ala+(-0.0469)Val+(-0.2392)Met+(0.2101)Ile+(-0.0191)Leu;0.820,0.847,0.736,0.699,0.727,0.825,0.788,0.760,(3.3331)+(0.0510)Ser+(-0.0615)Asn+(-0.0036)Gly+(-0.1302)His+(-0.0219)Tyr+(0.0619)Ile;0.820,0.847,0.794,0.793,0.812,0.795,0.756,0.789,(4.7385)+(-0.1238)Cit+(-0.0332)Tyr+(0.0497)Orn+(-0.0000)Leu+(0.0922)Phe+(-0.1676)Trp;0.820,0.842,0.752,0.744,0.684,0.852,0.840,0.780,(1.5077)+(0.0330)Ser+(-0.0096)Ala+(-0.0258)Arg+(-0.0516)Val+(-0.0109)Lys+(0.1869)Ile;0.820,0.850,0.788,0.763,0.804,0.817,0.802,0.796,(7.8395)+(-0.0085)Asn+(-0.1002)His+(0.0039)Pro+(0.0296)Orn+(0.0176)Leu+(-0.1129)Trp;0.820,0.848,0.779,0.761,0.794,0.818,0.767,0.785,(8.1601)+(-0.1104)His+(0.0254)Thr+(-0.0123)Arg+(0.0010)Lys+(0.0242)Leu+(-0.1231)Trp;0.820,0.847,0.785,0.765,0.754,0.848,0.856,0.806,(6.3584)+(0.0049)Asn+(-0.0624)His+(-0.0405)Val+(-0.2052)Met+(0.1722)Ile+(-0.0060)Leu;0.820,0.851,0.792,0.783,0.793,0.846,0.772,0.799,(5.9792)+(0.0442)Ser+(-0.0046)Gly+(-0.0923)His+(-0.0128)Arg+(0.0083)Lys+(-0.1008)Trp;0.820,0.843,0.808,0.804,0.838,0.841,0.736,0.804,(7.6788)+(-0.0483)Asn+(0.0034)Gly+(-0.1088)Cit+(-0.0305)Met+(0.0584)Orn+(-0.1391)Trp;0.820,0.852,0.807,0.782,0.832,0.833,0.801,0.812,(6.3241)+(-0.0970)Cit+(0.0102)Tyr+(-0.1234)Met+(0.0377)Orn+(0.0574)Ile+(-0.1597)Trp;0.820,0.851,0.720,0.694,0.726,0.808,0.715,0.736,(1.0399)+(0.04

28)Ser+(-0.1464)His+(-0.0641)Cit+(-0.0525)Tyr+(0.0366)Orn+(0.1135)Phe;0.820,0.851,0.787,0.775,0.745,0.858,0.857,0.809,(5.1516)+(-0.0627)Asn+(-0.0604)Val+(-0.2516)Met+(0.0289)Orn+(0.0070)Lys+(0.1902)Ile;0.820,0.850,0.818,0.822,0.827,0.786,0.810,0.812,(4.0368)+(-0.0196)Asn+(0.0069)Pro+(-0.2089)Met+(0.0094)Orn+(0.1019)Phe+(-0.1414)Trp;0.820,0.844,0.726,0.678,0.730,0.827,0.769,0.751,(2.8089)+(0.0517)Ser+(-0.0038)Gly+(-0.1388)His+(-0.0130)Arg+(-0.0100)Lys+(0.0640)Ile;0.820,0.857,0.806,0.795,0.785,0.815,0.872,0.817,(3.8906)+(-0.0100)Ala+(0.0048)Pro+(-0.0087)Lys+(0.0578)Ile+(0.0622)Phe+(-0.1637)Trp;0.820,0.855,0.796,0.786,0.802,0.780,0.819,0.797,(4.2120)+(-0.0962)Asn+(0.0007)Gly+(0.0141)Thr+(0.0358)Ile+(0.0560)Phe+(-0.1728)Trp;0.820,0.847,0.796,0.774,0.805,0.828,0.812,0.805,(8.0855)+(-0.0026)Asn+(-0.0993)His+(-0.0028)Ala+(0.0332)Orn+(0.0220)Leu+(-0.1100)Trp;0.820,0.845,0.763,0.766,0.752,0.799,0.753,0.767,(2.3751)+(0.0099)Gln+(-0.1710)His+(0.0232)Thr+(-0.0325)Arg+(-0.0565)Tyr+(0.1151)Phe;0.820,0.854,0.794,0.783,0.803,0.810,0.794,0.797,(5.5304)+(-0.0246)Asn+(0.0256)Thr+(0.0071)Tyr+(-0.2304)Met+(0.0638)Ile+(-0.1533)Trp;0.820,0.853,0.745,0.740,0.727,0.808,0.752,0.757,(-3.0046)+(0.0493)Ser+(0.0127)Pro+(-0.0461)Val+(-0.4547)Met+(0.0624)Leu+(0.1270)Phe;0.820,0.851,0.836,0.843,0.822,0.853,0.832,0.837,(4.3603)+(0.0443)Ser+(-0.1093)Asn+(-0.0077)Gly+(0.0047)Gln+(-0.0014)Ala+(-0.1352)Trp;0.820,0.850,0.789,0.797,0.788,0.830,0.742,0.789,(4.8783)+(0.0377)Ser+(-0.1162)Asn+(0.0055)Thr+(0.0083)Pro+(-0.0030)Val+(-0.1335)Trp;0.820,0.850,0.831,0.844,0.848,0.860,0.743,0.823,(5.9799)+(0.0059)Gln+(0.0258)Thr+(-0.0624)Cit+(-0.0079)Arg+(-0.1667)Met+(-0.1454)Trp;0.820,0.849,0.848,0.859,0.853,0.872,0.788,0.843,(6.7018)+(-0.0985)Asn+(0.0072)Gln+(0.0206)Thr+(-0.0028)Ala+(-0.0740)Cit+(-0.1456)Trp;0.820,0.848,0.782,0.760,0.797,0.823,0.779,0.790,(7.5726)+(-0.0121)Asn+(0.0034)Gly+(-0.1048)His+(0.0302)Orn+(0.0212)Leu+(-0.1104)Trp;0.820,0.84

4,0.795,0.786,0.758,0.860,0.846,0.813,(3.7440)+(0.0096)Gln+(-0.1216)His+(-0.0063)Ala+(-0.0230)Arg+(0.1270)Ile+(-0.0484)Leu;0.820,0.854,0.801,0.797,0.787,0.833,0.819,0.809,(6.0530)+(0.0023)Gly+(-0.0080)Arg+(-0.1416)Met+(0.1562)Ile+(-0.0638)Leu+(-0.1225)Trp;0.820,0.850,0.798,0.785,0.811,0.829,0.783,0.802,(6.1807)+(-0.0146)Asn+(0.0056)Gly+(-0.0756)Cit+(-0.1081)Met+(0.0722)Ile+(-0.1510)Trp;0.820,0.848,0.821,0.835,0.824,0.832,0.769,0.815,(5.5608)+(-0.0680)Asn+(0.0061)Gln+(0.0228)Thr+(0.0076)Pro+(-0.1753)Met+(-0.1426)Trp;0.820,0.847,0.795,0.791,0.799,0.819,0.776,0.796,(7.6236)+(0.0036)Gly+(-0.0853)His+(0.0105)Pro+(-0.1077)Met+(0.0153)Lys+(-0.1048)Trp;0.820,0.847,0.826,0.835,0.846,0.855,0.741,0.819,(8.6715)+(-0.0462)Asn+(0.0303)Thr+(-0.0014)Ala+(-0.0630)Cit+(-0.1047)Met+(-0.1362)Trp;0.820,0.845,0.793,0.791,0.787,0.826,0.791,0.799,(7.7144)+(0.0026)Gly+(-0.0887)His+(-0.0039)Ala+(0.0110)Pro+(0.0103)Lys+(-0.1056)Trp;0.820,0.849,0.774,0.756,0.790,0.817,0.755,0.780,(7.9546)+(0.0018)Gly+(-0.1121)His+(0.0246)Thr+(-0.0121)Arg+(0.0255)Leu+(-0.1217)Trp;0.820,0.848,0.755,0.731,0.732,0.809,0.830,0.775,(1.6541)+(0.0068)Gln+(-0.1528)His+(0.0034)Orn+(0.0922)Ile+(-0.0485)Leu+(0.0665)Phe;0.820,0.845,0.767,0.753,0.744,0.814,0.817,0.782,(1.7802)+(0.0097)Gln+(-0.1547)His+(-0.0520)Cit+(-0.0520)Tyr+(0.0406)Ile+(0.0845)Phe;0.820,0.853,0.792,0.781,0.798,0.848,0.767,0.798,(5.9461)+(0.0430)Ser+(-0.0039)Gly+(-0.0850)His+(-0.0321)Cit+(0.0060)Lys+(-0.1051)Trp;0.820,0.847,0.777,0.771,0.739,0.813,0.849,0.793,(5.6205)+(-0.0006)Gly+(-0.0111)Tyr+(-0.0398)Val+(-0.0025)Lys+(0.1500)Ile+(-0.1300)Trp;0.820,0.846,0.823,0.814,0.844,0.850,0.780,0.822,(8.2038)+(-0.0447)Asn+(-0.0041)Ala+(-0.1109)Cit+(0.0081)Tyr+(0.0617)Orn+(-0.1391)Trp;0.820,0.846,0.807,0.795,0.835,0.827,0.767,0.806,(7.6356)+(-0.0517)Asn+(-0.1104)Cit+(0.0051)Pro+(0.0531)Orn+(0.0065)Leu+(-0.1562)Trp;0.820,0.855,0.819,0.826,0.807,0.789,0.849,0.818,(4.9704)+(-0.0695)Asn+(-0.0195)Tyr+(-0

.0277)Val+(0.0449)Leu+(0.0975)Phe+(-0.1440)Trp;0.820,0.852,0.772,0.744,0.771,0.840,0.796,0.788,(6.3560)+(-0.1215)His+(0.0350)Thr+(-0.0045)Ala+(-0.0091)Arg+(-0.2235)Met+(0.0752)Ile;0.820,0.852,0.784,0.761,0.758,0.867,0.841,0.807,(4.6586)+(-0.0666)Cit+(0.0065)Tyr+(-0.0557)Val+(-0.2721)Met+(0.0415)Orn+(0.1836)Ile;0.820,0.859,0.769,0.759,0.720,0.868,0.826,0.793,(0.0124)+(0.0404)Ser+(-0.0099)Ala+(0.0090)Pro+(-0.2723)Met+(0.1745)Ile+(-0.0726)Leu;0.820,0.854,0.813,0.816,0.835,0.787,0.776,0.804,(4.9719)+(-0.0878)Asn+(0.0002)Gly+(0.0229)Thr+(-0.0202)Arg+(0.0827)Phe+(-0.1661)Trp;0.820,0.853,0.799,0.789,0.777,0.805,0.868,0.810,(3.4670)+(-0.0105)Ala+(0.0050)Pro+(-0.0050)Orn+(0.0550)Ile+(0.0590)Phe+(-0.1718)Trp;0.820,0.849,0.782,0.788,0.776,0.762,0.792,0.780,(4.3681)+(-0.0914)Asn+(0.0207)Thr+(-0.0456)Tyr+(0.0378)Ile+(0.0779)Phe+(-0.1636)Trp;0.820,0.848,0.795,0.774,0.822,0.835,0.765,0.799,(8.1801)+(-0.0707)His+(-0.0806)Cit+(0.0002)Arg+(0.0068)Pro+(0.0549)Orn+(-0.1177)Trp;0.820,0.848,0.816,0.818,0.811,0.847,0.798,0.818,(5.6816)+(0.0440)Ser+(-0.1022)Asn+(-0.0075)Gly+(0.0114)Thr+(-0.0018)Ala+(-0.1376)Trp;0.820,0.845,0.821,0.829,0.844,0.842,0.738,0.813,(8.3158)+(-0.0502)Asn+(0.0287)Thr+(-0.0627)Cit+(-0.1243)Met+(0.0053)Lys+(-0.1413)Trp;0.820,0.841,0.764,0.733,0.751,0.849,0.812,0.786,(2.3439)+(0.0391)Ser+(-0.0051)Gly+(0.0062)Gln+(-0.1607)His+(-0.0044)Ala+(0.0220)Leu;0.820,0.849,0.794,0.791,0.807,0.837,0.742,0.794,(8.2046)+(0.0019)Gly+(-0.0864)His+(0.0206)Thr+(-0.0417)Cit+(0.0051)Lys+(-0.1137)Trp;0.820,0.853,0.802,0.795,0.808,0.788,0.820,0.803,(2.9757)+(0.0028)Gly+(-0.2463)Met+(-0.0004)Lys+(0.0543)Ile+(0.0899)Phe+(-0.1517)Trp;0.820,0.849,0.794,0.799,0.777,0.821,0.801,0.799,(4.3502)+(0.0046)Gln+(0.0076)Thr+(-0.0327)Arg+(0.1546)Ile+(-0.0727)Leu+(-0.1489)Trp;0.820,0.848,0.777,0.760,0.794,0.788,0.780,0.781,(3.3992)+(0.0049)Gly+(-0.1015)Cit+(-0.0046)Arg+(0.0531)Ile+(0.0702)Phe+(-0.1894)Trp;0.820,0.843,0.719,0.683,0.692,0.82

9,0.793,0.749,(2.4553)+(0.0362)Ser+(-0.1184)His+(-0.0039)Thr+(-0.0269)Val+(0.1254)Ile+(-0.0070)Leu;0.820,0.856,0.842,0.853,0.840,0.805,0.842,0.835,(3.0377)+(-0.0998)Asn+(0.0008)Gly+(0.0059)Gln+(-0.0032)Leu+(0.0785)Phe+(-0.1580)Trp;0.820,0.850,0.773,0.747,0.744,0.849,0.851,0.798,(4.2474)+(-0.1588)Asn+(-0.0869)Cit+(-0.0629)Val+(0.0511)Orn+(0.1636)Ile+(0.0682)Phe;0.820,0.848,0.779,0.770,0.741,0.819,0.853,0.796,(5.4215)+(-0.0003)Gly+(-0.0014)Pro+(-0.0402)Val+(-0.0037)Lys+(0.1515)Ile+(-0.1333)Trp;0.820,0.847,0.788,0.771,0.751,0.860,0.859,0.810,(3.1616)+(0.0027)Gln+(0.0152)Tyr+(-0.0576)Val+(-0.3363)Met+(0.0192)Orn+(0.1911)Ile;0.820,0.842,0.805,0.792,0.833,0.829,0.763,0.804,(6.9980)+(-0.1044)Cit+(0.0067)Pro+(-0.0961)Met+(0.0494)Orn+(0.0100)Leu+(-0.1541)Trp;0.820,0.854,0.800,0.803,0.792,0.774,0.829,0.799,(2.8958)+(0.0013)Gln+(-0.0278)Val+(0.0111)Orn+(0.0412)Leu+(0.0717)Phe+(-0.1735)Trp;0.820,0.851,0.759,0.732,0.741,0.805,0.835,0.778,(4.0495)+(-0.0419)Asn+(-0.1166)His+(0.0165)Orn+(0.1024)Ile+(-0.0576)Leu+(0.0715)Phe;0.820,0.850,0.777,0.771,0.762,0.862,0.763,0.789,(2.7483)+(0.0368)Ser+(0.0069)Gln+(-0.1274)His+(-0.0033)Ala+(0.0146)Pro+(-0.1652)Met;0.820,0.849,0.824,0.839,0.811,0.856,0.789,0.824,(4.1382)+(0.0336)Ser+(-0.1120)Asn+(0.0041)Gln+(-0.0020)Ala+(0.0026)Lys+(-0.1351)Trp;0.820,0.846,0.763,0.737,0.760,0.844,0.778,0.780,(2.3529)+(0.0387)Ser+(-0.0973)Asn+(0.0080)Gln+(-0.1516)His+(0.0038)Pro+(0.0175)Leu;0.820,0.852,0.805,0.809,0.818,0.851,0.736,0.803,(4.0404)+(0.0321)Ser+(0.0128)Thr+(0.0290)Tyr+(-0.2215)Met+(0.0020)Lys+(-0.1502)Trp;0.820,0.850,0.802,0.801,0.802,0.828,0.788,0.805,(4.9911)+(0.0513)Ser+(-0.0944)Asn+(-0.0072)Gly+(-0.0107)Arg+(0.0087)Pro+(-0.1367)Trp;0.820,0.853,0.812,0.805,0.807,0.830,0.827,0.817,(0.6203)+(0.0139)Gln+(-0.1590)His+(-0.0152)Arg+(-0.2373)Met+(0.0066)Lys+(0.1243)Phe;0.820,0.848,0.794,0.803,0.806,0.784,0.752,0.786,(3.0545)+(0.0036)Gln+(0.0167)Thr+(-0.0988)Cit+(-0.0436)Tyr+(0.1081)Phe

+(-0.1791)Trp;0.820,0.847,0.831,0.840,0.822,0.854,0.810,0.831,(5.9379)+(0.0117)Gln+(-0.1038)His+(0.0007)Ala+(-0.0106)Arg+(-0.0461)Met+(-0.0945)Trp;0.820,0.844,0.760,0.747,0.696,0.872,0.850,0.791,(1.2081)+(0.0268)Ser+(-0.0123)Ala+(-0.0839)Cit+(-0.0332)Val+(0.2068)Ile+(-0.0423)Leu;0.820,0.843,0.820,0.813,0.841,0.847,0.775,0.819,(8.1866)+(-0.0409)Asn+(-0.0041)Ala+(-0.1109)Cit+(0.0015)Val+(0.0617)Orn+(-0.1386)Trp;0.820,0.855,0.855,0.869,0.845,0.833,0.855,0.850,(3.1828)+(-0.0751)Asn+(0.0067)Gln+(-0.0048)Ala+(-0.0135)Arg+(0.0888)Phe+(-0.1544)Trp;0.820,0.852,0.728,0.689,0.727,0.826,0.761,0.751,(3.2605)+(0.0449)Ser+(-0.0717)Asn+(-0.1337)His+(-0.0245)Tyr+(0.0186)Orn+(0.0590)Ile;0.820,0.845,0.772,0.749,0.772,0.849,0.777

,0.787,(2.4758)+(0.0391)Ser+(-0.0975)Asn+(0.0092)Gln+(-0.1445)His+(-0.0422)Cit+(0.0212)Leu;0.820,0.842,0.799,0.791,0.834,0.835,0.722,0.796,(7.0844)+(0.0006)Gly+(0.0102)Thr+(-0.1161)Cit+(0.0549)Orn+(-0.0079)Lys+(-0.1568)Trp;0.820,0.853,0.829,0.831,0.828,0.852,0.811,0.831,(3.2839)+(0.0438)Ser+(-0.0073)Gly+(0.0034)Gln+(0.0272)Tyr+(-0.1921)Met+(-0.1448)Trp;0.820,0.848,0.724,0.691,0.708,0.829,0.767,0.749,(2.8735)+(0.0390)Ser+(-0.1253)His+(-0.0182)Tyr+(-0.0076)Lys+(0.1059)Ile+(-0.0299)Leu;0.820,0.847,0.819,0.828,0.815,0.843,0.789,0.819,(5.3501)+(0.0495)Ser+(-0.0613)Asn+(-0.0074)Gly+(0.0007)Ala+(-0.0837)Met+(-0.1293)Trp;0.820,0.845,0.774,0.759,0.767,0.811,0.800,0.784,(2.2441)+(-0.1075)Asn+(0.0033)Gly+(0.0099)Gln+(-0.1652)His+(0.0143)Thr+(0.0843)Phe;0.820,0.852,0.821,0.825,0.828,0.860,0.767,0.820,(4.6979)+(0.0426)Ser+(-0.0565)Asn+(-0.0077)Arg+(0.0333)Tyr+(-0.1304)Met+(-0.1367)Trp;0.820,0.851,0.786,0.775,0.749,0.859,0.837,0.805,(4.3892)+(0.0039)Gly+(-0.0478)Cit+(-0.0545)Val+(-0.2910)Met+(0.0073)Lys+(0.1902)Ile;0.820,0.851,0.810,0.813,0.816,0.844,0.767,0.810,(4.4469)+(0.0470)Ser+(-0.0080)Gly+(-0.0131)Arg+(-0.1396)Met+(0.0280)Orn+(-0.1329)Trp;0.820,0.850,0.785,0.784

,0.800,0.826,0.727,0.784,(4.1100)+(0.0300)Ser+(0.0018)Gln+(-0.0834)Cit+(0.0098)Pro+(-0.0085)Tyr+(-0.1618)Trp;0.820,0.849,0.787,0.793,0.786,0.824,0.744,0.787,(4.5563)+(0.0383)Ser+(-0.1160)Asn+(0.0043)Thr+(0.0073)Pro+(0.0009)Lys+(-0.1386)Trp;0.820,0.843,0.795,0.789,0.794,0.828,0.790,0.800,(8.0503)+(0.0034)Gly+(-0.0889)His+(-0.0041)Ala+(0.0099)Pro+(0.0076)Val+(-0.1047)Trp;0.820,0.847,0.794,0.783,0.805,0.835,0.771,0.799,(4.2779)+(0.0336)Ser+(-0.0046)Ala+(-0.0768)Cit+(-0.0022)Arg+(0.0242)Leu+(-0.1622)Trp;0.820,0.855,0.823,0.828,0.821,0.808,0.826,0.821,(3.8812)+(-0.0053)Ala+(0.0105)Pro+(-0.2009)Met+(0.0094)Orn+(0.1053)Phe+(-0.1387)Trp;0.820,0.852,0.809,0.800,0.817,0.782,0.833,0.808,(3.6457)+(-0.0042)Arg+(0.0032)Pro+(-0.2365)Met+(0.0496)Ile+(0.0879)Phe+(-0.1524)Trp;0.820,0.842,0.720,0.683,0.692,0.833,0.794,0.751,(2.5201)+(0.0357)Ser+(-0.1204)His+(-0.0026)Thr+(-0.0013)Pro+(-0.0287)Val+(0.1211)Ile;0.820,0.852,0.828,0.827,0.843,0.800,0.819,0.822,(4.4137)+(-0.0787)Cit+(0.0090)Arg+(-0.1803)Met+(0.0036)Lys+(0.1216)Phe+(-0.1541)Trp;0.820,0.851,0.799,0.788,0.776,0.857,0.834,0.814,(3.3705)+(0.0116)Gln+(-0.1158)His+(-0.0159)Arg+(-0.1825)Met+(0.1313)Ile+(-0.0465)Leu;0.820,0.850,0.811,0.802,0.845,0.825,0.754,0.807,(6.9190)+(0.0289)Thr+(-0.0717)Cit+(0.0183)Tyr+(-0.2074)Met+(0.0204)Leu+(-0.1602)Trp;0.820,0.847,0.823,0.830,0.847,0.849,0.734,0.815,(8.5166)+(-0.0474)Asn+(0.0006)Gly+(0.0296)Thr+(-0.0636)Cit+(-0.1124)Met+(-0.1380)Trp;0.820,0.847,0.784,0.766,0.817,0.834,0.730,0.787,(7.7377)+(0.0050)Gly+(-0.0815)His+(-0.0852)Cit+(0.0067)Val+(0.0542)Orn+(-0.1192)Trp;0.820,0.846,0.731,0.712,0.728,0.810,0.733,0.746,(1.3382)+(0.0479)Ser+(-0.1422)His+(-0.0356)Cit+(-0.0385)Tyr+(-0.0088)Lys+(0.1255)Phe;0.820,0.851,0.803,0.784,0.783,0.860,0.856,0.821,(3.3103)+(0.0107)Gln+(-0.1351)His+(-0.0041)Ala+(-0.1732)Met+(0.0004)Lys+(0.0705)Ile;0.820,0.851,0.801,0.811,0.794,0.834,0.764,0.801,(3.7390)+(0.0369)Ser+(-0.1260)Asn+(0.0033)Gln+(0.0071)P

ro+(0.0010)Lys+(-0.1388)Trp;0.820,0.848,0.778,0.755,0.794,0.818,0.778,0.786,(7.2664)+(0.0032)Gly+(-0.1100)His+(0.0282)Orn+(0.0033)Lys+(0.0203)Leu+(-0.1140)Trp;0.820,0.847,0.777,0.763,0.789,0.807,0.767,0.782,(5.5439)+(0.0021)Gly+(0.0113)Thr+(-0.0880)Cit+(-0.0143)Tyr+(0.0638)Ile+(-0.1769)Trp;0.820,0.846,0.792,0.778,0.751,0.865,0.861,0.814,(2.8715)+(0.0015)Gly+(0.0036)Gln+(0.0206)Tyr+(-0.0564)Val+(-0.3455)Met+(0.1936)Ile;0.820,0.845,0.781,0.773,0.762,0.860,0.786,0.795,(3.2787)+(0.0369)Ser+(-0.0887)Asn+(0.0076)Gln+(-0.1295)His+(-0.0047)Ala+(0.0114)Pro;0.820,0.841,0.770,0.752,0.747,0.851,0.806,0.789,(2.9288)+(0.0385)Ser+(-0.0059)Gly+(0.0059)Gln+(-0.1439)His+(-0.0054)Ala+(0.0102)Pro;0.820,0.853,0.835,0.831,0.846,0.817,0.832,0.832,(4.9962)+(-0.0036)Ala+(-0.0764)Cit+(-0.1346)Met+(0.0099)Leu+(0.1173)Phe+(-0.1537)Trp;0.820,0.851,0.814,0.828,0.809,0.848,0.766,0.813,(4.0517)+(0.0341)Ser+(-0.1217)Asn+(0.0033)Gln+(-0.0023)Val+(0.0202)Orn+(-0.1335)Trp;0.820,0.853,0.825,0.831,0.819,0.816,0.827,0.823,(4.8976)+(-0.0954)Asn+(0.0214)Thr+(-0.0063)Ala+(0.0011)Leu+(0.0867)Phe+(-0.1573)Trp;0.820,0.850,0.810,0.801,0.816,0.787,0.839,0.811,(3.6408)+(-0.0045)Asn+(-0.2303)Met+(-0.0016)Orn+(0.0530)Ile+(0.0876)Phe+(-0.1524)Trp;0.820,0.850,0.795,0.797,0.800,0.828,0.759,0.796,(3.8635)+(0.0452)Ser+(-0.0580)Asn+(-0.0048)Arg+(-0.1282)Met+(0.0229)Leu+(-0.1400)Trp;0.820,0.849,0.807,0.806,0.832,0.798,0.766,0.800,(3.2794)+(0.0038)Gln+(0.0144)Thr+(-0.0918)Cit+(-0.0155)Arg+(0.0884)Phe+(-0.1890)Trp;0.820,0.845,0.821,0.815,0.839,0.852,0.779,0.821,(8.1895)+(-0.0471)Asn+(-0.0039)Ala+(-0.1125)Cit+(0.0047)Arg+(0.0621)Orn+(-0.1362)Trp;0.820,0.844,0.722,0.688,0.717,0.804,0.763,0.743,(-0.0609)+(0.0381)Ser+(0.0042)Gln+(-0.1814)His+(-0.0000)Pro+(0.0029)Leu+(0.0839)Phe;0.820,0.843,0.806,0.801,0.836,0.840,0.732,0.802,(7.6607)+(-0.0571)Asn+(0.0034)Gly+(-0.1118)Cit+(0.0584)Orn+(-0.0003)Lys+(-0.1430)Trp;0.820,0.850,0.752,0.728,0.737,0.840,0.781,0.771,(0.21

32)+(0.0393)Ser+(0.0052)Gln+(-0.1624)His+(-0.0051)Ala+(-0.0433)Cit+(0.0996)Phe;0.820,0.850,0.788,0.774,0.806,0.822,0.760,0.790,(4.3534)+(0.0393)Ser+(-0.0050)Gly+(-0.0783)Cit+(0.0085)Pro+(0.0027)Val+(-0.1671)Trp;0.820,0.850,0.820,0.817,0.822,0.849,0.800,0.822,(4.0049)+(0.0461)Ser+(-0.0068)Gly+(0.0284)Tyr+(-0.1886)Met+(0.0038)Lys+(-0.1451)Trp;0.820,0.846,0.800,0.783,0.818,0.826,0.787,0.803,(6.8576)+(-0.0406)Asn+(-0.1060)Cit+(-0.0088)Tyr+(0.0441)Orn+(0.0496)Ile+(-0.1622)Trp;0.820,0.846,0.828,0.828,0.843,0.858,0.774,0.826,(5.8896)+(0.0052)Gln+(-0.0037)Ala+(-0.1074)Cit+(-0.0710)Met+(0.0545)Orn+(-0.1435)Trp;0.820,0.855,0.842,0.855,0.846,0.800,0.830,0.833,(1.7082)+(0.0070)Gln+(-0.0107)Arg+(-0.2313)Met+(0.0014)Leu+(0.1128)Phe+(-0.1494)Trp;0.820,0.852,0.806,0.809,0.809,0.836,0.774,0.807,(3.9645)+(0.0461)Ser+(-0.0081)Gly+(0.0024)Val+(-0.1574)Met+(0.0225)Orn+(-0.1391)Trp;0.820,0.850,0.776,0.772,0.738,0.814,0.842,0.791,(5.4549)+(-0.0128)Tyr+(-0.0333)Val+(-0.0011)Lys+(0.1651)Ile+(-0.0218)Leu+(-0.1283)Trp;0.820,0.849,0.808,0.818,0.802,0.850,0.765,0.809,(4.8015)+(0.0366)Ser+(-0.1001)Asn+(-0.0026)Ala+(-0.0004)Val+(0.0242)Orn+(-0.1298)Trp;0.820,0.848,0.807,0.808,0.788,0.828,0.830,0.814,(2.3106)+(-0.0763)Asn+(0.0130)Gln+(-0.1424)His+(-0.0471)Cit+(-0.0410)Tyr+(0.1096)Phe;0.820,0.846,0.798,0.790,0.744,0.868,0.883,0.821,(5.3969)+(-0.0246)Asn+(-0.0054)Ala+(-0.0480)Val+(-0.2053)Met+(0.2065)Ile+(-0.0169)Leu;0.820,0.851,0.790,0.781,0.802,0.825,0.764,0.793,(7.7335)+(0.0026)Gly+(-0.0853)His+(0.0081)Pro+(-0.0649)Met+(0.0330)Orn+(-0.0967)Trp;0.820,0.847,0.795,0.784,0.803,0.830,0.780,0.799,(7.8318)+(0.0027)Gly+(-0.0976)His+(-0.0023)Ala+(0.0067)Val+(0.0335)Orn+(-0.1032)Trp;0.820,0.858,0.824,0.819,0.843,0.798,0.813,0.818,(4.7605)+(-0.0764)Cit+(0.0088)Pro+(0.0006)Tyr+(-0.1789)Met+(0.1174)Phe+(-0.1528)Trp;0.820,0.849,0.792,0.786,0.793,0.846,0.771,0.799,(6.2044)+(0.0458)Ser+(-0.0052)Gly+(-0.0864)His+(0.0006)Ala+(-0.0087)Arg+(-0.0955)

Trp;0.820,0.846,0.790,0.772,0.810,0.821,0.770,0.793,(6.4449)+(-0.1103)Cit+(0.0052)Pro+(-0.0229)Val+(0.0542)Orn+(0.0434)Leu+(-0.1657)Trp;0.820,0.845,0.726,0.694,0.719,0.831,0.751,0.749,(2.6467)+(0.0434)Ser+(-0.1233)His+(-0.0006)Thr+(-0.0243)Arg+(0.1195)Ile+(-0.0437)Leu;0.820,0.849,0.782,0.776,0.746,0.819,0.843,0.796,(5.9594)+(-0.0209)Arg+(0.0009)Pro+(-0.0431)Val+(0.0026)Lys+(0.1556)Ile+(-0.1303)Trp;0.820,0.846,0.750,0.729,0.729,0.803,0.810,0.768,(3.4270)+(-0.0570)Asn+(0.0060)Gly+(-0.1187)His+(0.1056)Ile+(-0.0561)Leu+(0.0835)Phe;0.820,0.849,0.798,0.811,0.813,0.842,0.698,0.791,(4.9273)+(0.0302)Ser+(0.0187)Thr+(-0.0183)Arg+(-0.1814)Met+(0.0058)Lys+(-0.1421)Trp;0.820,0.849,0.841,0.850,0.852,0.857,0.784,0.836,(6.5021)+(-0.1036)Asn+(0.0072)Gln+(0.0189)Thr+(-0.0756)Cit+(0.0000)Lys+(-0.1505)Trp;0.820,0.849,0.796,0.787,0.805,0.835,0.769,0.799,(7.5920)+(0.0027)Gly+(-0.0927)His+(-0.0731)Met+(0.0330)Orn+(0.0116)Lys+(-0.1014)Trp;0.820,0.853,0.789,0.783,0.801,0.826,0.755,0.791,(2.3979)+(0.0420)Ser+(0.0267)Tyr+(-0.2319)Met+(0.0111)Orn+(0.0208)Leu+(-0.1533)Trp;0.820,0.846,0.724,0.694,0.717,0.810,0.758,0.745,(0.1438)+(0.0371)Ser+(0.0036)Gln+(-0.1753)His+(-0.0041)Val+(0.0097)Orn+(0.0912)Phe;0.820,0.845,0.722,0.691,0.733,0.811,0.720,0.739,(1.3621)+(0.0481)Ser+(-0.1604)His+(0.0083)Thr+(-0.0215)Arg+(-0.0102)Lys+(0.1078)Phe;0.820,0.848,0.797,0.787,0.803,0.831,0.788,0.802,(8.3331)+(-0.0840)His+(-0.0040)Ala+(-0.0076)Arg+(0.0100)Pro+(0.0360)Orn+(-0.0996)Trp;0.820,0.852,0.765,0.737,0.769,0.851,0.766,0.781,(1.8859)+(0.0384)Ser+(0.0067)Gln+(-0.1504)His+(-0.1864)Met+(0.0142)Orn+(0.0272)Leu;0.820,0.851,0.804,0.803,0.797,0.831,0.803,0.808,(5.0242)+(0.0503)Ser+(-0.1059)Asn+(-0.0074)Gly+(0.0091)Pro+(-0.0026)Val+(-0.1343)Trp;0.820,0.850,0.835,0.836,0.845,0.815,0.824,0.830,(4.7338)+(-0.0029)Ala+(-0.0732)Cit+(-0.1534)Met+(0.0056)Lys+(0.1230)Phe+(-0.1514)Trp;0.820,0.850,0.796,0.784,0.822,0.846,0.735,0.797,(8.3196)+(-0.0259)Asn+(0.0046)G

ly+(-0.0667)His+(-0.0854)Cit+(0.0597)Orn+(-0.1081)Trp;0.820,0.848,0.785,0.784,0.807,0.795,0.734,0.780,(4.2301)+(0.0029)Gly+(-0.1287)Cit+(-0.0324)Tyr+(0.0493)Orn+(0.0942)Phe+(-0.1691)Trp;0.820,0.847,0.797,0.786,0.819,0.849,0.746,0.800,(8.2267)+(0.0042)Gly+(-0.0686)His+(-0.0029)Ala+(-0.0882)Cit+(0.0622)Orn+(-0.1066)Trp;0.820,0.846,0.791,0.778,0.802,0.822,0.779,0.795,(6.2258)+(-0.0463)Asn+(0.0055)Gly+(-0.0858)Cit+(0.0023)Pro+(0.0623)Ile+(-0.1629)Trp;0.820,0.844,0.723,0.684,0.717,0.831,0.761,0.748,(2.5187)+(0.0391)Ser+(-0.1233)His+(-0.0479)Cit+(-0.0026)Pro+(0.1161)Ile+(-0.0396)Leu;0.820,0.849,0.840,0.850,0.852,0.858,0.778,0.834,(6.4572)+(-0.1042)Asn+(0.0007)Gly+(0.0072)Gln+(0.0187)Thr+(-0.0764)Cit+(-0.1502)Trp;0.820,0.854,0.755,0.734,0.735,0.829,0.802,0.775,(-3.8502)+(0.0536)Ser+(-0.0073)Ala+(-0.3547)Met+(-0.0166)Lys+(0.0764)Ile+(0.0932)Phe;0.820,0.848,0.828,0.828,0.855,0.852,0.753,0.822,(8.3572)+(-0.0437)Asn+(0.0293)Thr+(-0.0644)Cit+(0.0203)Tyr+(-0.1440)Met+(-0.1445)Trp;0.820,0.857,0.807,0.813,0.793,0.801,0.822,0.807,(3.7254)+(0.0124)Thr+(-0.0087)Ala+(0.0075)Pro+(-0.0074)Lys+(0.0839)Phe+(-0.1649)Trp;0.820,0.855,0.809,0.800,0.806,0.830,0.828,0.816,(0.7929)+(0.0137)Gln+(-0.1534)His+(-0.0123)Arg+(0.0055)Pro+(-0.2426)Met+(0.1225)Phe;0.820,0.850,0.783,0.779,0.748,0.821,0.838,0.797,(6.2096)+(-0.0192)Arg+(-0.0048)Tyr+(-0.0344)Va

l+(0.1764)Ile+(-0.0262)Leu+(-0.1226)Trp;0.820,0.847,0.779,0.761,0.796,0.811,0.772,0.785,(5.2470)+(0.0027)Gly+(0.0090)Thr+(-0.0919)Cit+(0.0002)Pro+(0.0626)Ile+(-0.1824)Trp;0.820,0.846,0.790,0.766,0.778,0.835,0.847,0.807,(1.9570)+(-0.0830)Asn+(0.0127)Gln+(-0.1541)His+(-0.0518)Cit+(0.0332)Ile+(0.0632)Phe;0.820,0.842,0.720,0.688,0.690,0.827,0.790,0.749,(2.8417)+(0.0339)Ser+(-0.1168)His+(-0.0003)Thr+(-0.0159)Tyr+(-0.0276)Val+(0.1203)Ile;0.820,0.857,0.767,0.753,0.755,0.866,0.759,0.783,(1.0886)+(0.0447)Ser+(-0.0438)Asn+(-0.0710)Cit+(-0.2384)Met+(0.1705)

Ile+(-0.0729)Leu;0.820,0.847,0.796,0.771,0.806,0.830,0.815,0.806,(7.9981)+(-0.1010)His+(-0.0032)Ala+(0.0069)Tyr+(0.0318)Orn+(0.0220)Leu+(-0.1125)Trp;0.820,0.858,0.810,0.819,0.813,0.781,0.801,0.803,(2.7721)+(0.0021)Gln+(0.0093)Thr+(-0.0066)Val+(-0.0080)Lys+(0.0840)Phe+(-0.1696)Trp;0.820,0.852,0.822,0.828,0.810,0.813,0.838,0.822,(4.4839)+(-0.0642)Asn+(0.0021)Gly+(-0.0073)Ala+(0.0089)Pro+(0.0862)Phe+(-0.1489)Trp;0.820,0.850,0.801,0.813,0.793,0.833,0.763,0.800,(3.8348)+(0.0368)Ser+(-0.1222)Asn+(0.0034)Gln+(0.0076)Pro+(-0.0048)Tyr+(-0.1362)Trp;0.820,0.849,0.826,0.824,0.808,0.840,0.861,0.833,(4.2004)+(-0.0302)Asn+(0.0065)Gln+(-0.0052)Ala+(-0.1449)Met+(0.0711)Ile+(-0.1446)Trp;0.820,0.847,0.791,0.762,0.821,0.832,0.775,0.797,(8.1910)+(-0.0803)His+(-0.0782)Cit+(0.0537)Orn+(-0.0009)Lys+(0.0196)Leu+(-0.1257)Trp;0.820,0.849,0.800,0.799,0.810,0.831,0.758,0.799,(8.8913)+(-0.0391)Asn+(-0.0903)His+(0.0255)Thr+(-0.0140)Arg+(0.0098)Lys+(-0.1101)Trp;0.820,0.847,0.785,0.764,0.754,0.850,0.859,0.807,(6.3654)+(0.0029)Asn+(-0.0632)His+(0.0013)Arg+(-0.0422)Val+(-0.2066)Met+(0.1679)Ile;0.820,0.854,0.770,0.745,0.761,0.856,0.789,0.788,(0.3821)+(0.0485)Ser+(-0.0091)Ala+(-0.0840)Cit+(-0.2293)Met+(-0.0121)Lys+(0.0954)Ile;0.820,0.849,0.795,0.787,0.808,0.823,0.767,0.796,(4.0656)+(0.0370)Ser+(-0.0054)Gly+(0.0019)Gln+(-0.0784)Cit+(0.0089)Pro+(-0.1657)Trp;0.820,0.846,0.723,0.685,0.699,0.831,0.795,0.752,(2.8762)+(0.0377)Ser+(-0.1130)His+(-0.0012)Pro+(-0.0280)Val+(-0.0106)Lys+(0.1272)Ile;0.820,0.852,0.790,0.788,0.777,0.835,0.792,0.798,(4.5495)+(0.0430)Ser+(-0.1235)Asn+(-0.0292)Val+(0.0008)Lys+(0.0611)Leu+(-0.1305)Trp;0.820,0.848,0.748,0.715,0.757,0.825,0.760,0.764,(5.1863)+(0.0188)Asn+(0.0033)Gly+(-0.1336)His+(0.0300)Thr+(-0.2682)Met+(0.0742)Ile;0.820,0.857,0.839,0.850,0.843,0.801,0.829,0.831,(1.4800)+(0.0009)Gly+(0.0061)Gln+(0.0044)Tyr+(-0.2519)Met+(0.1124)Phe+(-0.1497)Trp;0.820,0.856,0.839,0.849,0.838,0.800,0.843,0.833,(3.1691)+(-0.099

6)Asn+(0.0058)Gln+(0.0027)Pro+(-0.0046)Leu+(0.0765)Phe+(-0.1581)Trp;0
.820,0.853,0.797,0.787,0.775,0.806,0.862,0.807,(3.3121)+(0.0007)Gly+(
-0.0105)Ala+(0.0046)Pro+(0.0539)Ile+(0.0565)Phe+(-0.1717)Trp;0.820,0.
852,0.793,0.791,0.765,0.796,0.853,0.801,(3.5730)+(-0.0094)Ala+(0.0056
)Pro+(-0.0246)Tyr+(0.0524)Ile+(0.0674)Phe+(-0.1641)Trp;0.820,0.851,0.
784,0.780,0.749,0.821,0.840,0.797,(6.1309)+(-0.0199)Arg+(0.0001)Pro+(
-0.0348)Val+(0.1760)Ile+(-0.0259)Leu+(-0.1245)Trp;0.820,0.850,0.820,0
.824,0.830,0.784,0.815,0.813,(4.0868)+(-0.0166)Asn+(0.0077)Pro+(-0.20
77)Met+(-0.0012)Leu+(0.1080)Phe+(-0.1418)Trp;0.820,0.850,0.781,0.776,
0.803,0.824,0.714,0.779,(4.6235)+(0.0329)Ser+(0.0021)Thr+(-0.0758)Cit
+(-0.0090)Arg+(0.0097)Pro+(-0.1615)Trp;0.820,0.848,0.799,0.803,0.813,
0.798,0.762,0.794,(3.3407)+(0.0039)Gln+(-0.1275)Cit+(-0.0385)Tyr+(0.0
453)Orn+(0.0939)Phe+(-0.1726)Trp;0.820,0.846,0.773,0.754,0.734,0.833,
0.862,0.796,(4.0335)+(-0.1880)Asn+(0.0209)Thr+(-0.0605)Cit+(-0.0628)V
al+(0.1699)Ile+(0.0794)Phe;0.820,0.842,0.725,0.683,0.722,0.822,0.777,
0.751,(1.2223)+(0.0363)Ser+(0.0046)Gln+(-0.1632)His+(-0.0074)Thr+(0.0
053)Orn+(0.0519)Ile;0.820,0.851,0.827,0.829,0.821,0.846,0.818,0.829,(
4.5628)+(0.0426)Ser+(-0.1238)Asn+(-0.0081)Gly+(0.0041)Gln+(0.0083)Thr
+(-0.1427)Trp;0.820,0.840,0.717,0.677,0.710,0.804,0.776,0.742,(1.0259
)+(0.0471)Ser+(-0.0033)Gly+(-0.1606)His+(-0.0163)Val+(0.0276)Leu+(0.0
840)Phe;0.820,0.852,0.796,0.786,0.778,0.809,0.853,0.806,(3.2837)+(-0.
0004)Gly+(0.0087)Thr+(-0.0102)Ala+(0.0557)Ile+(0.0555)Phe+(-0.1773)Tr
p;0.820,0.848,0.770,0.745,0.768,0.850,0.782,0.786,(2.5473)+(0.0392)Se
r+(-0.0854)Asn+(0.0083)Gln+(-0.1509)His+(-0.0060)Lys+(0.0231)Leu;0.82
0,0.846,0.820,0.814,0.844,0.841,0.775,0.818,(5.2740)+(0.0054)Gln+(-0.
1054)Cit+(-0.1117)Met+(0.0454)Orn+(0.0132)Leu+(-0.1589)Trp;0.820,0.85
6,0.837,0.849,0.841,0.800,0.824,0.828,(1.5513)+(0.0006)Gly+(0.0059)Gl
n+(-0.2455)Met+(0.0039)Orn+(0.1110)Phe+(-0.1484)Trp;0.820,0.855,0.840

,0.853,0.844,0.806,0.821,0.831,(1.7951)+(0.0067)Gln+(-0.0124)Arg+(-0.2303)Met+(0.0081)Orn+(0.1098)Phe+(-0.1476)Trp;0.820,0.854,0.806,0.800,0.792,0.833,0.831,0.814,(6.3683)+(-0.0071)Arg+(0.0015)Pro+(-0.1397)Met+(0.1520)Ile+(-0.0629)Leu+(-0.1229)Trp;0.820,0.850,0.782,0.777,0.803,0.828,0.720,0.782,(4.6846)+(0.0341)Ser+(-0.0758)Cit+(-0.0066)Arg+(0.0101)Pro+(-0.0023)Lys+(-0.1577)Trp;0.820,0.850,0.802,0.804,0.773,0.806,0.854,0.809,(2.5898)+(0.0029)Gln+(-0.0086)Ala+(-0.0240)Tyr+(0.0557)Ile+(0.0659)Phe+(-0.1703)Trp;0.820,0.855,0.811,0.814,0.833,0.785,0.778,0.803,(4.9847)+(-0.0872)Asn+(0.0224)Thr+(-0.0203)Arg+(0.0015)Pro+(0.0812)Phe+(-0.1667)Trp;0.820,0.848,0.805,0.807,0.811,0.842,0.759,0.805,(9.2389)+(-0.0312)Asn+(-0.0840)His+(0.0277)Thr+(-0.0009)Ala+(-0.0099)Arg+(-0.1041)Trp;0.820,0.848,0.786,0.793,0.784,0.826,0.739,0.786,(4.7142)+(0.0378)Ser+(-0.1129)Asn+(0.0054)Thr+(0.0078)Pro+(-0.0060)Tyr+(-0.1361)Trp;0.820,0.846,0.819,0.824,0.845,0.839,0.737,0.811,(8.3197)+(-0.0428)Asn+(0.0294)Thr+(-0.0666)Cit+(0.0036)Val+(-0.1214)Met+(-0.1438)Trp;0.820,0.846,0.727,0.749,0.684,0.799,0.709,0.735,(-1.8424)+(0.0357)Ser+(-0.0446)Arg+(-0.0740)Tyr+(0.1862)Ile+(-0.1119)Leu+(0.1056)Phe;0.820,0.850,0.811,0.814,0.816,0.832,0.780,0.810,(5.0935)+(0.0487)Ser+(-0.0942)Asn+(-0.0075)Gly+(-0.0129)Arg+(0.0256)Orn+(-0.1344)Trp;0.820,0.849,0.760,0.753,0.760,0.817,0.736,0.767,(-2.5671)+(0.0524)Ser+(-0.0090)Ala+(-0.0895)Cit+(0.0181)Pro+(-0.3679)Met+(0.1204)Phe;0.820,0.857,0.844,0.842,0.857,0.824,0.836,0.840,(5.0436)+(-0.0031)Ala+(-0.0747)Cit+(0.0112)Tyr+(-0.1485)Met+(0.1220)Phe+(-0.1498)Trp;0.820,0.847,0.789,0.777,0.801,0.821,0.770,0.792,(7.9236)+(-0.1046)His+(0.0195)Thr+(-0.0016)Tyr+(0.0069)Val+(0.0031)Lys+(-0.1160)Trp;0.819,0.851,0.801,0.798,0.830,0.794,0.754,0.794,(4.5646)+(0.0189)Thr+(-0.0865)Cit+(-0.0131)Arg+(-0.0042)Val+(0.0967)Phe+(-0.1810)Trp;0.819,0.850,0.810,0.801,0.816,0.788,0.837,0.810,(3.6385)+(-0.0053)Asn+(-0.2302)Met+(0.0001)

Lys+(0.0524)Ile+(0.0867)Phe+(-0.1522)Trp;0.819,0.844,0.755,0.728,0.725,0.835,0.830,0.780,(6.1898)+(-0.1033)Asn+(-0.0834)His+(0.0161)Thr+(-0.0429)Val+(0.0273)Orn+(0.1388)Ile;0.819,0.842,0.783,0.772,0.738,0.854,0.854,0.804,(4.3164)+(-0.1032)Asn+(0.0021)Gly+(0.0083)Gln+(-0.0975)His+(-0.0349)Val+(0.1281)Ile;0.819,0.857,0.821,0.828,0.826,0.788,0.816,0.815,(3.8728)+(0.0097)Pro+(0.0007)Tyr+(-0.0082)Val+(-0.2233)Met+(0.1211)Phe+(-0.1347)Trp;0.819,0.847,0.795,0.767,0.823,0.831,0.780,0.801,(8.2983)+(-0.0773)His+(-0.0757)Cit+(-0.0342)Met+(0.0533)Orn+(0.0200)Leu+(-0.1217)Trp;0.819,0.855,0.816,0.822,0.839,0.789,0.775,0.806,(5.0871)+(-0.0885)Asn+(0.0234)Thr+(-0.0202)Arg+(-0.0048)Leu+(0.0870)Phe+(-0.1626)Trp;0.819,0.854,0.815,0.817,0.831,0.788,0.799,0.809,(4.7984)+(-0.0979)Asn+(-0.0000)Gly+(0.0191)Thr+(-0.0034)Lys+(0.0780)Phe+(-0.1620)Trp;0.819,0.848,0.761,0.727,0.777,0.831,0.772,0.776,(6.1238)+(-0.1176)His+(0.0345)Thr+(-0.0410)Cit+(-0.2467)Met+(-0.0009)Lys+(0.0707)Ile;0.819,0.844,0.805,0.791,0.828,0.838,0.767,0.806,(6.7796)+(0.0105)Thr+(-0.0068)Ala+(-0.1182)Cit+(0.0518)Orn+(0.0163)Leu+(-0.1657)Trp;0.819,0.843,0.798,0.781,0.830,0.826,0.759,0.799,(7.0125)+(-0.1190)Cit+(0.0044)Pro+(0.0549)Orn+(-0.0085)Lys+(0.0121)Leu+(-0.1638)Trp;0.819,0.840,0.793,0.777,0.829,0.828,0.735,0.792,(6.7099)+(0.0029)Gly+(-0.1225)Cit+(0.0563)Orn+(-0.0090)Lys+(0.0155)Leu+(-0.1633)Trp;0.819,0.854,0.822,0.834,0.828,0.798,0.796,0.814,(3.5062)+(0.0017)Gly+(-0.0077)Val+(-0.2067)Met+(0.0168)Orn+(0.1171)Phe+(-0.1322)Trp;0.819,0.852,0.813,0.814,0.812,0.835,0.798,0.815,(5.0987)+(0.0472)Ser+(-0.1058)Asn+(-0.0076)Gly+(-0.0022)Val+(0.0246)Orn+(-0.1332)Trp;0.819,0.850,0.827,0.845,0.819,0.860,0.772,0.824,(4.2037)+(0.0351)Ser+(-0.1009)Asn+(0.0048)Gln+(-0.0014)Ala+(-0.0116)Arg+(-0.1311)Trp;0.819,0.849,0.792,0.803,0.802,0.838,0.712,0.788,(4.0380)+(0.0306)Ser+(0.0112)Thr+(0.0019)Val+(-0.1834)Met+(0.0164)Orn+(-0.1436)Trp;0.819,0.847,0.781,0.767,0.792,0.807,0.

778,0.786,(5.8472)+(0.0129)Thr+(-0.0848)Cit+(0.0012)Pro+(-0.0176)Tyr+(0.0614)Ile+(-0.1763)Trp;0.819,0.850,0.746,0.718,0.718,0.814,0.827,0.769,(4.2613)+(-0.1072)His+(-0.0234)Arg+(-0.0422)Val+(0.0286)Orn+(0.1253)Ile+(0.0656)Phe;0.819,0.848,0.831,0.841,0.821,0.856,0.807,0.831,(5.9513)+(0.0007)Gly+(0.0115)Gln+(-0.1032)His+(-0.0105)Arg+(-0.0419)Met+(-0.0940)Trp;0.819,0.848,0.791,0.790,0.771,0.808,0.822,0.798,(4.0893)+(0.0025)Gln+(-0.0001)Orn+(-0.0037)Lys+(0.1381)Ile+(-0.0629)Leu+(-0.1489)Trp;0.819,0.853,0.814,0.808,0.808,0.833,0.830,0.820,(0.9859)+(-0.0106)Asn+(0.0140)Gln+(-0.1535)His+(-0.0119)Arg+(-0.2147)Met+(0.1242)Phe;0.819,0.851,0.812,0.821,0.824,0.804,0.771,0.805,(4.9482)+(-0.0576)Asn+(0.0054)Gly+(-0.0879)Cit+(-0.0148)Tyr+(0.1084)Phe+(-0.1536)Trp;0.819,0.849,0.783,0.756,0.792,0.824,0.808,0.795,(7.7381)+(-0.1004)His+(0.0045)Tyr+(-0.0212)Val+(0.0351)Orn+(0.0526)Leu+(-0.1106)Trp;0.819,0.848,0.791,0.790,0.771,0.808,0.822,0.798,(4.0825)+(0.0025)Gln+(-0.0006)Thr+(-0.0035)Lys+(0.1384)Ile+(-0.0632)Leu+(-0.1486)Trp;0.819,0.847,0.783,0.784,0.763,0.804,0.807,0.790,(5.2230)+(0.0044)Thr+(-0.0028)Pro+(-0.0203)Tyr+(0.1449)Ile+(-0.0638)Leu+(-0.1405)Trp;0.819,0.847,0.745,0.731,0.721,0.792,0.798,0.761,(2.1673)+(0.0067)Gln+(-0.1673)His+(0.0128)Thr+(-0.0579)Tyr+(0.0346)Ile+(0.0828)Phe;0.819,0.846,0.767,0.744,0.737,0.844,0.834,0.790,(5.1728)+(0.0025)Gly+(-0.1091)His+(-0.0074)Ala+(0.0211)Orn+(0.1205)Ile+(-0.0470)Leu;0.819,0.845,0.779,0.759,0.805,0.815,0.754,0.783,(5.3391)+(0.0038)Gly+(-0.1154)Cit+(-0.0049)Arg+(0.0396)Orn+(0.0539)Ile+(-0.1782)Trp;0.819,0.844,0.750,0.732,0.682,0.859,0.862,0.784,(1.1815)+(0.0256)Ser+(-0.0146)Ala+(-0.0844)Cit+(0.0082)Pro+(-0.0479)Val+(0.1749)Ile;0.819,0.844,0.725,0.686,0.718,0.833,0.767,0.751,(2.3909)+(0.0413)Ser+(-0.1198)His+(-0.0053)Thr+(-0.0457)Cit+(0.1159)Ile+(-0.0412)Leu;0.819,0.855,0.827,0.831,0.826,0.807,0.831,0.824,(4.1192)+(-0.0051)Ala+(-0.0044)Arg+(0.0112)Pro+(-0.1903)Met+(0.1109)

Phe+(-0.1395)Trp;0.819,0.850,
0.774,0.751,0.772,0.855,0.780,0.789,(1.9201)+(0.0388)Ser+(0.0074)Gln+(-0.1486)His+(-0.0016)Ala+(-0.1736)Met+(0.0310)Leu;0.819,0.849,0.801,0.814,0.807,0.846,0.721,0.797,(4.6177)+(0.0289)Ser+(0.0147)Thr+(-0.0007)Ala+(-0.1748)Met+(0.0022)Lys+(-0.1415)Trp;0.819,0.849,0.794,0.783,0.813,0.834,0.755,0.796,(3.8031)+(0.0326)Ser+(0.0027)Gln+(-0.0858)Cit+(-0.0110)Lys+(0.0243)Leu+(-0.1683)Trp;0.819,0.847,0.736,0.720,0.723,0.817,0.745,0.751,(1.2291)+(0.0458)Ser+(-0.1430)His+(-0.0031)Ala+(-0.0363)Cit+(-0.0375)Tyr+(0.1211)Phe;0.819,0.846,0.793,0.774,0.769,0.856,0.850,0.812,(3.6373)+(-0.0590)Asn+(0.0025)Gly+(0.0098)Gln+(-0.1415)His+(-0.0058)Ala+(0.0566)Ile;0.819,0.843,0.811,0.807,0.838,0.840,0.748,0.808,(5.8487)+(0.0006)Gly+(0.0042)Gln+(-0.1175)Cit+(0.0546)Orn+(-0.0074)Lys+(-0.1575)Trp;0.819,0.857,0.813,0.817,0.801,0.784,0.849,0.813,(2.8736)+(0.0027)Gln+(-0.0259)Val+(-0.0077)Lys+(0.0435)Leu+(0.0806)Phe+(-0.1724)Trp;0.819,0.849,0.801,0.811,0.808,0.850,0.725,0.798,(4.2136)+(0.0355)Ser+(-0.0013)Ala+(-0.0134)Arg+(-0.1287)Met+(0.0271)Orn+(-0.1311)Trp;0.819,0.848,0.794,0.786,0.803,0.828,0.773,0.797,(7.7879)+(-0.0314)Asn+(0.0028)Gly+(-0.0934)His+(0.0326)Orn+(0.0094)Lys+(-0.1031)Trp;0.819,0.846,0.803,0.794,0.810,0.835,0.791,0.807,(7.9511)+(-0.0890)His+(-0.0009)Ala+(-0.0629)Met+(0.0345)Orn+(0.0112)Lys+(-0.1015)Trp;0.819,0.844,0.790,0.767,0.816,0.815,0.780,0.794,(5.9038)+(-0.1099)Cit+(-0.0040)Arg+(0.0003)Pro+(0.0403)Orn+(0.0506)Ile+(-0.1767)Trp;0.819,0.843,0.806,0.802,0.836,0.839,0.732,0.802,(7.6784)+(-0.0578)Asn+(0.0034)Gly+(-0.1114)Cit+(-0.0004)Val+(0.0586)Orn+(-0.1423)Trp;0.819,0.843,0.788,0.776,0.743,0.854,0.864,0.809,(4.4269)+(-0.0982)Asn+(0.0087)Gln+(-0.0975)His+(-0.0346)Val+(0.1282)Ile+(-0.0016)Leu;0.819,0.851,0.775,0.751,0.781,0.854,0.766,0.788,(1.8859)+(0.0390)Ser+(0.0084)Gln+(-0.1432)His+(-0.0395)Cit+(-0.1839)Met+(0.0307)Leu;0.819,0.849,0.781,0.77

0,0.806,0.824,0.727,0.782,(4.4834)+(0.0346)Ser+(-0.0849)Cit+(0.0086)Pro+(0.0052)Val+(-0.0062)Lys+(-0.1634)Trp;0.819,0.849,0.788,0.794,0.806,0.780,0.738,0.779,(4.2981)+(0.0213)Thr+(-0.0928)Cit+(-0.0415)Tyr+(-0.0032)Val+(0.1138)Phe+(-0.1731)Trp;0.819,0.846,0.777,0.771,0.738,0.815,0.846,0.792,(5.5227)+(-0.0007)Pro+(-0.0101)Tyr+(-0.0398)Val+(-0.0027)Lys+(0.1508)Ile+(-0.1305)Trp;0.819,0.845,0.807,0.799,0.833,0.836,0.754,0.805,(7.2369)+(-0.1029)Cit+(0.0081)Pro+(-0.0011)Val+(-0.0884)Met+(0.0528)Orn+(-0.1446)Trp;0.819,0.843,0.730,0.688,0.734,0.831,0.760,0.753,(3.0616)+(0.0486)Ser+(-0.0705)Asn+(-0.1283)His+(-0.0390)Cit+(-0.0003)Pro+(0.0608)Ile;0.819,0.843,0.720,0.689,0.689,0.826,0.788,0.748,(2.8397)+(0.0336)Ser+(-0.1154)His+(-0.0165)Tyr+(-0.0260)Val+(0.1251)Ile+(-0.0061)Leu;0.819,0.856,0.814,0.816,0.829,0.787,0.800,0.808,(4.7738)+(-0.0978)Asn+(0.0186)Thr+(0.0011)Pro+(-0.0034)Lys+(0.0771)Phe+(-0.1622)Trp;0.819,0.845,0.801,0.790,0.818,0.828,0.775,0.803,(5.5540)+(0.0029)Gln+(-0.1116)Cit+(-0.0210)Val+(0.0522)Orn+(0.0423)Leu+(-0.1702)Trp;0.819,0.845,0.801,0.781,0.776,0.861,0.863,0.820,(3.8522)+(-0.0495)Asn+(0.0104)Gln+(-0.1397)His+(-0.0057)Ala+(-0.0033)Lys+(0.0567)Ile;0.819,0.850,0.797,0.786,0.809,0.824,0.783,0.800,(8.0737)+(-0.0036)Asn+(-0.0821)His+(0.0078)Pro+(-0.0570)Met+(0.0341)Orn+(-0.0984)Trp;0.819,0.848,0.780,0.781,0.761,0.801,0.804,0.787,(5.1123)+(0.0028)Thr+(-0.0237)Tyr+(0.0062)Orn+(0.1396)Ile+(-0.0636)Leu+(-0.1389)Trp;0.819,0.848,0.801,0.803,0.809,0.841,0.750,0.801,(9.0813)+(-0.0330)Asn+(0.0009)Gly+(-0.0856)His+(0.0269)Thr+(-0.0102)Arg+(-0.1042)Trp;0.819,0.852,0.785,0.771,0.749,0.861,0.840,0.805,(4.5537)+(0.0041)Gly+(-0.0539)Cit+(0.0060)Arg+(-0.0520)Val+(-0.2737)Met+(0.1885)Ile;0.819,0.851,0.816,0.818,0.822,0.854,0.769,0.816,(4.2908)+(0.0421)Ser+(-0.0587)Asn+(0.0297)Tyr+(0.0031)Val+(-0.1412)Met+(-0.1418)Trp;0.819,0.854,0.744,0.711,0.714,0.815,0.840,0.770,(3.9836)+(-0.1123)His+(-0.0370)Val+(0.0239)Orn+(-

0.0084)Lys+(0.1175)Ile+(0.0615)Phe;0.819,0.851,0.779,0.772,0.804,0.819,0.719,0.779,(4.3900)+(0.0340)Ser+(-0.0791)Cit+(-0.0080)Arg+(0.0090)Pro+(0.0032)Val+(-0.1656)Trp;0.819,0.848,0.788,0.765,0.767,0.852,0.848,0.808,(6.1030)+(-0.0887)His+(-0.0057)Ala+(-0.1341)Met+(0.0257)Orn+(0.1372)Ile+(-0.0520)Leu;0.819,0.848,0.825,0.824,0.824,0.850,0.815,0.828,(5.7711)+(0.0098)Gln+(-0.1052)His+(-0.0374)Cit+(0.0156)Tyr+(0.0039)Lys+(-0.1133)Trp;0.819,0.854,0.817,0.821,0.832,0.789,0.798,0.810,(4.8242)+(-0.0998)Asn+(0.0191)Thr+(-0.0026)Lys+(-0.0035)Leu+(0.0807)Phe+(-0.1596)Trp;0.819,0.852,0.816,0.813,0.815,0.813,0.828,0.817,(5.0246)+(-0.0088)Ala+(-0.0927)Cit+(0.0126)Pro+(-0.0009)Val+(0.1010)Phe+(-0.1622)Trp;0.819,0.844,0.809,0.796,0.829,0.846,0.777,0.812,(8.9243)+(-0.0152)Asn+(-0.0607)His+(-0.0026)Ala+(-0.0844)Cit+(0.0626)Orn+(-0.1067)Trp;0.819,0.838,0.721,0.685,0.719,0.800,0.763,0.742,(0.9666)+(0.0472)Ser+(-0.0030)Gly+(-0.1629)His+(-0.0000)Thr+(-0.0036)Val+(0.0952)Phe;0.819,0.855,0.805,0.815,0.787,0.795,0.823,0.805,(3.4758)+(0.0093)Thr+(-0.0083)Ala+(0.0086)Pro+(-0.0063)Val+(0.0867)Phe+(-0.1628)Trp;0.819,0.850,0.820,0.824,0.831,0.785,0.814,0.813,(4.1611)+(-0.0144)Asn+(-0.0034)Arg+(0.0077)Pro+(-0.2046)Met+(0.1075)Phe+(-0.1426)Trp;0.819,0.848,0.761,0.726,0.776,0.830,0.771,0.776,(6.0633)+(-0.1179)His+(0.0342)Thr+(-0.0408)Cit+(0.0007)Pro+(-0.2503)Met+(0.0695)Ile;0.819,0.848,0.806,0.791,0.815,0.819,0.817,0.810,(4.3424)+(0.0052)Gln+(-0.0874)Cit+(-0.0072)Arg+(0.0008)Pro+(0.0613)Ile+(-0.1825)Trp;0.819,0.846,0.804,0.800,0.754,0.869,0.872,0.824,(3.8508)+(-0.0654)Asn+(0.0058)Gln+(0.0028)Pro+(-0.0547)Val+(-0.2600)Met+(0.1835)Ile;0.819,0.845,0.785,0.772,0.745,0.857,0.854,0.807,(3.3929)+(-0.0001)Gly+(0.0025)Gln+(-0.0561)Val+(-0.3094)Met+(0.0209)Orn+(0.1879)Ile;0.819,0.843,0.724,0.674,0.728,0.831,0.770,0.751,(2.8842)+(0.0490)Ser+(-0.0028)Gly+(-0.1321)His+(-0.0371)Cit+(-0.0134)Lys+(0.0668)Ile;0.819,0.850,0.797,0.808,0.807,0.840,0.718

,0.793,(4.9711)+(0.0363)Ser+(-0.1023)Asn+(0.0078)Thr+(-0.0160)Arg+(0.0214)Orn+(-0.1355)Trp;0.819,0.849,0.785,0.760,0.801,0.816,0.798,0.794,(7.7337)+(-0.1021)His+(0.0041)Pro+(-0.0033)Tyr+(0.0296)Orn+(0.0181)Leu+(-0.1128)Trp;0.819,0.847,0.788,0.781,0.803,0.826,0.746,0.789,(8.3519)+(0.0012)Gly+(-0.1018)His+(0.0235)Thr+(-0.0121)Arg+(0.0074)Val+(-0.1141)Trp;0.819,0.846,0.706,0.659,0.715,0.808,0.739,0.730,(0.3385)+(0.0501)Ser+(-0.1611)His+(-0.0271)Cit+(-0.0201)Arg+(0.0405)Ile+(0.0781)Phe;0.819,0.846,0.784,0.767,0.774,0.854,0.801,0.799,(3.0354)+(0.0429)Ser+(-0.0929)Asn+(-0.0054)Gly+(0.0085)Gln+(-0.1371)His+(0.0066)Pro;0.819,0.846,0.728,0.686,0.723,0.819,0.785,0.753,(3.0251)+(0.0498)Ser+(-0.0050)Gly+(-0.1348)His+(-0.0200)Tyr+(-0.0105)Lys+(0.0666)Ile;0.819,0.843,0.747,0.738,0.689,0.852,0.817,0.774,(3.1927)+(0.0393)Ser+(-0.1888)Asn+(0.0095)Thr+(-0.0196)Tyr+(-0.0559)Val+(0.1763)Ile;0.819,0.850,0.824,0.822,0.823,0.856,0.805,0.827,(5.7650)+(0.0021)Gly+(0.0098)Gln+(-0.1041)His+(-0.0410)Cit+(0.0201)Tyr+(-0.1122)Trp;0.819,0.846,0.703,0.651,0.703,0.805,0.769,0.732,(0.1111)+(0.0459)Ser+(-0.1697)His+(-0.0058)Thr+(0.0033)Orn+(0.0367)Ile+(0.0682)Phe;0.819,0.846,0.728,0.694,0.725,0.809,0.766,0.748,(-0.1778)+(0.0396)Ser+(0.0043)Gln+(-0.1778)His+(-0.0062)Thr+(0.0085)Orn+(0.0863)Phe;0.819,0.850,0.806,0.799,0.783,0.812,0.867,0.815,(2.5631)+(-0.0000)Gly+(0.0026)Gln+(-0.0099)Ala+(0.0565)Ile+(0.0545)Phe+(-0.1764)Trp;0.819,0.846,0.798,0.782,0.808,0.834,0.790,0.804,(4.3247)+(0.0382)Ser+(-0.0039)Gly+(-0.0044)Ala+(-0.0734)Cit+(0.0228)Leu+(-0.1617)Trp;0.819,0.845,0.806,0.798,0.833,0.835,0.754,0.805,(7.1700)+(-0.1030)Cit+(0.0078)Pro+(-0.0912)Met+(0.0518)Orn+(0.0006)Lys+(-0.1466)Trp;0.819,0.852,0.812,0.818,0.824,0.784,0.794,0.805,(3.4392)+(0.0025)Gly+(-0.0054)Arg+(0.0079)Pro+(-0.2243)Met+(0.1121)Phe+(-0.1437)Trp;0.819,0.850,0.788,0.762,0.789,0.816,0.833,0.800,(7.5021)+(-0.0942)His+(-0.0040)Arg+(-0.0008)Tyr+(0.0041)Lys+(0.0630)Ile+(-0.

1217)Trp;0.819,0.848,0.782,0.776,0.746,0.821,0.843,0.796,(6.1107)+(-0.0185)Arg+(0.0011)Pro+(-0.0046)Tyr+(-0.0422)Val+(0.1558)Ile+(-0.1266)Trp;0.819,0.848,0.788,0.793,0.763,0.808,0.815,0.795,(4.3842)+(0.0028)Gln+(-0.0214)Tyr+(-0.0019)Lys+(0.1416)Ile+(-0.0636)Leu+(-0.1412)Trp;0.819,0.848,0.770,0.757,0.744,0.815,0.829,0.786,(2.1390)+(0.0090)Gln+(-0.1582)His+(-0.0446)Tyr+(-0.0080)Lys+(0.0399)Ile+(0.0798)Phe;0.819,0.845,0.733,0.697,0.732,0.830,0.759,0.755,(3.3778)+(0.0476)Ser+(-0.0647)Asn+(-0.1229)His+(-0.0380)Cit+(-0.0180)Tyr+(0.0641)Ile;0.819,0.856,0.822,0.831,0.819,0.784,0.830,0.816,(4.8168)+(-0.0862)Asn+(0.0059)Pro+(-0.0109)Val+(0.0055)Lys+(0.0886)Phe+(-0.1447)Trp;0.819,0.855,0.837,0.836,0.855,0.814,0.820,0.831,(4.9082)+(-0.0720)Cit+(0.0078)Tyr+(-0.0020)Val+(-0.1653)Met+(0.1224)Phe+(-0.1489)Trp;0.819,0.848,0.794,0.774,0.821,0.834,0.763,0.798,(8.2049)+(-0.0702)His+(-0.0805)Cit+(0.0069)Pro+(-0.0020)Tyr+(0.0553)Orn+(-0.1169)Trp;0.819,0.846,0.812,0.827,0.811,0.849,0.749,0.809,(5.2115)+(0.0401)Ser+(-0.0608)Asn+(0.0002)Ala+(-0.0062)Arg+(-0.0743)Met+(-0.1264)Trp;0.819,0.847,0.782,0.761,0.752,0.847,0.855,0.804,(6.3617)+(0.0037)Asn+(-0.0625)His+(0.0031)Pro+(-0.0426)Val+(-0.2128)Met+(0.1652)Ile;0.819,0.853,0.828,0.831,0.837,0.813,0.814,0.824,(3.1549)+(0.0057)Gln+(-0.0967)Cit+(-0.0027)Arg+(-0.0077)Lys+(0.0952)Phe+(-0.1743)Trp;0.819,0.852,0.806,0.800,0.773,0.853,0.861,0.822,(1.8554)+(-0.0089)Ala+(-0.0795)Cit+(-0.2349)Met+(0.1917)Ile+(-0.0954)Leu+(0.1127)Phe;0.819,0.842,0.811,0.802,0.835,0.842,0.765,0.811,(7.6034)+(-0.0051)Ala+(-0.1171)Cit+(0.0039)Val+(0.0617)Orn+(-0.0042)Lys+(-0.1459)Trp;0.819,0.856,0.840,0.850,0.839,0.803,0.842,0.834,(3.0163)+(-0.0983)Asn+(0.0008)Gly+(0.0058)Gln+(-0.0008)Lys+(0.0762)Phe+(-0.1601)Trp;0.819,0.853,0.825,0.827,0.823,0.798,0.841,0.822,(2.9218)+(-0.0797)Asn+(0.0063)Gln+(-0.0177)Arg+(0.0390)Ile+(0.0586)Phe+(-0.1733)Trp;0.819,0.853,0.797,0.788,0.802,0.781,0.825,0.799,(4.3353)+(-0.0944)

Asn+(0.0156)Thr+(-0.0064)Orn+(0.0373)Ile+(0.0584)Phe+(-0.1747)Trp;0.819,0.851,0.768,0.754,0.767,0.850,0.752,0.781,(2.1189)+(0.0381)Ser+(0.0074)Gln+(-0.1410)His+(0.0103)Pro+(0.0061)Val+(-0.1880)Met;0.819,0.847,0.782,0.766,0.808,0.830,0.734,0.785,(4.5494)+(0.0332)Ser+(0.0071)Thr+(-0.0845)Cit+(-0.0117)Lys+(0.0248)Leu+(-0.1694)Trp;0.819,0.846,0.730,0.711,0.718,0.780,0.772,0.745,(4.4780)+(-0.1485)His+(0.0242)Thr+(-0.0608)Tyr+(-0.0105)Lys+(0.0413)Ile+(0.0917)Phe;0.819,0.845,0.797,0.801,0.779,0.822,0.808,0.803,(4.3033)+(0.0047)Gln+(-0.0300)Arg+(0.0086)Orn+(0.1547)Ile+(-0.0740)Leu+(-0.1439)Trp;0.819,0.843,0.788,0.780,0.730,0.875,0.869,0.813,(5.4808)+
(-0.0969)Asn+(0.0054)Gly+(-0.0084)Ala+(-0.0657)Cit+(-0.0503)Val+(0.1838)Ile;0.819,0.839,0.717,0.679,0.715,0.798,0.761,0.738,(0.9259)+(0.0473)Ser+(-0.0031)Gly+(-0.1627)His+(0.0023)Pro+(-0.0043)Val+(0.0933)Phe;0.819,0.839,0.719,0.673,0.724,0.821,0.755,0.743,(2.6405)+(0.0477)Ser+(-0.0033)Gly+(-0.1474)His+(0.0027)Thr+(-0.0190)Arg+(0.0561)Ile;0.819,0.852,0.788,0.777,0.794,0.808,0.790,0.792,(5.3858)+(-0.0007)Gly+(0.0260)Thr+(-0.2362)Met+(-0.0025)Lys+(0.0669)Ile+(-0.1520)Trp;0.819,0.850,0.814,0.830,0.816,0.852,0.740,0.809,(4.4499)+(0.0324)Ser+(-0.1148)Asn+(0.0044)Gln+(0.0106)Thr+(-0.0162)Arg+(-0.1385)Trp;0.819,0.846,0.780,0.762,0.744,0.854,0.850,0.802,(3.9096)+(0.0014)Gly+(0.0157)Tyr+(-0.0583)Val+(-0.3211)Met+(0.0226)Orn+(0.1927)Ile;0.819,0.845,0.793,0.779,0.804,0.828,0.781,0.798,(6.3680)+(-0.0375)Asn+(0.0056)Gly+(-0.0856)Cit+(-0.0040)Lys+(0.0678)Ile+(-0.1597)Trp;0.819,0.842,0.779,0.766,0.727,0.847,0.873,0.803,(6.6587)+(-0.0479)Asn+(-0.0676)His+(-0.0057)Ala+(-0.0073)Tyr+(-0.0393)Val+(0.1528)Ile;0.819,0.847,0.809,0.818,0.806,0.854,0.762,0.810,(5.2251)+(0.0346)Ser+(-0.1033)Asn+(0.0091)Thr+(-0.0025)Ala+(0.0069)Tyr+(-0.1364)Trp;0.819,0.851,0.707,0.659,0.717,0.806,0.739,0.730,(0.3430)+(0.0496)Ser+(-0.1666)His+(-0.0251)Arg+(0.0053)Orn+

(0.0375)Ile+(0.0771)Phe;0.819,0.849,0.812,0.826,0.812,0.846,0.750,0.809,(5.0500)+(0.0393)Ser+(-0.0656)Asn+(-0.0107)Arg+(-0.0929)Met+(0.0090)Lys+(-0.1328)Trp;0.819,0.848,0.832,0.832,0.830,0.856,0.817,0.834,(5.9716)+(0.0113)Gln+(-0.1059)His+(-0.0312)Cit+(-0.0109)Arg+(0.0212)Tyr+(-0.1103)Trp;0.819,0.853,0.824,0.845,0.812,0.778,0.825,0.815,(3.0414)+(-0.0889)Asn+(0.0059)Gln+(0.0040)Pro+(-0.0335)Tyr+(0.0881)Phe+(-0.1523)Trp;0.819,0.851,0.792,0.783,0.805,0.829,0.762,0.795,(2.4858)+(0.0435)Ser+(0.0302)Tyr+(-0.2293)Met+(-0.0011)Lys+(0.0233)Leu+(-0.1532)Trp;0.819,0.849,0.791,0.770,0.770,0.846,0.851,0.809,(2.0374)+(0.0108)Gln+(-0.1623)His+(-0.0065)Ala+(-0.0220)Arg+(0.0429)Ile+(0.0612)Phe;0.819,0.848,0.790,0.774,0.810,0.820,0.768,0.793,(4.1793)+(0.0374)Ser+(-0.0048)Gly+(0.0034)Thr+(-0.0769)Cit+(0.0168)Leu+(-0.1728)Trp;0.819,0.847,0.794,0.796,0.773,0.817,0.820,0.801,(2.4842)+(-0.0706)Asn+(0.0107)Gln+(-0.1498)His+(-0.0424)Tyr+(0.0159)Orn+(0.0958)Phe;0.819,0.843,0.818,0.815,0.835,0.853,0.763,0.816,(5.9029)+(0.0011)Gly+(0.0038)Gln+(-0.0052)Ala+(-0.1160)Cit+(0.0560)Orn+(-0.1526)Trp;0.819,0.856,0.843,0.856,0.846,0.807,0.830,0.835,(2.9749)+(-0.0859)Asn+(0.0011)Gly+(0.0066)Gln+(-0.0155)Arg+(0.0812)Phe+(-0.1610)Trp;0.819,0.852,0.802,0.794,0.810,0.789,0.816,0.802,(3.0923)+(0.0030)Gly+(-0.0048)Arg+(-0.2389)Met+(0.0541)Ile+(0.0907)Phe+(-0.1517)Trp;0.819,0.850,0.831,0.833,0.845,0.801,0.814,0.823,(4.5593)+(-0.0695)Cit+(-0.0036)Val+(-0.1780)Met+(0.0071)Lys+(0.1247)Phe+(-0.1499)Trp;0.819,0.849,0.786,0.764,0.775,0.844,0.821,0.801,(2.9200)+(0.0027)Gly+(0.0104)Gln+(-0.1404)His+(0.0018)Pro+(-0.2033)Met+(0.0649)Ile;0.819,0.845,0.720,0.684,0.718,0.806,0.760,0.742,(-0.0367)+(0.0376)Ser+(0.0039)Gln+(-0.1813)His+(0.0053)Orn+(0.0019)Leu+(0.0832)Phe;0.819,0.844,0.725,0.687,0.706,0.839,0.784,0.754,(3.0779)+(0.0389)Ser+(-0.1038)His+(-0.0397)Cit+(-0.0276)Val+(-0.0111)Lys+(0.1283)Ile;0.819,0.854,0.803,0.810,0.810,0.780,0.787,0.797,(3.4110)+(

0.0098)Thr+(-0.0077)Val+(0.0091)Orn+(-0.0074)Lys+(0.0818)Phe+(-0.1643)Trp;0.819,0.849,0.780,0.771,0.776,0.854,0.761,0.790,(2.7761)+(0.0387)Ser+(-0.0526)Asn+(0.0082)Gln+(-0.1265)His+(0.0113)Pro+(-0.1419)Met;0.819,0.849,0.760,0.729,0.773,0.827,0.769,0.775,(6.1766)+(-0.1172)His+(0.0345)Thr+(-0.0404)Cit+(-0.0082)Tyr+(-0.2377)Met+(0.0712)Ile;0.819,0.844,0.722,0.691,0.703,0.835,0.762,0.748,(3.0653)+(0.0378)Ser+(-0.1120)His+(0.0063)Thr+(-0.0275)Arg+(-0.0330)Val+(0.1334)Ile;0.819,0.843,0.812,0.806,0.840,0.838,0.752,0.809,(5.8231)+(0.0044)Gln+(-0.1191)Cit+(0.0023)Val+(0.0536)Orn+(-0.0084)Lys+(-0.1610)Trp;0.819,0.843,0.794,0.785,0.799,0.833,0.777,0.798,(7.5797)+(0.0021)Gly+(-0.0963)His+(-0.0019)Ala+(0.0336)Orn+(0.0079)Lys+(-0.1026)Trp;0.819,0.855,0.768,0.758,0.749,0.871,0.757,0.784,(-0.1700)+(0.0384)Ser+(0.0029)Gln+(-0.0799)Cit+(-0.2945)Met+(0.1776)Ile+(-0.0763)Leu;0.819,0.850,0.802,0.814,0.802,0.841,0.739,0.799,(3.3154)+(0.0316)Ser+(0.0021)Gln+(-0.1645)Met+(0.0195)Orn+(0.0013)Lys+(-0.1393)Trp;0.819,0.849,0.832,0.835,0.845,0.843,0.792,0.829,(6.0253)+(-0.1043)Asn+(0.0071)Gln+(0.0183)Thr+(-0.0814)Cit+(0.0138)Leu+(-0.1638)Trp;0.819,0.849,0.803,0.816,0.807,0.843,0.735,0.800,(4.8988)+(0.0384)Ser+(-0.0958)Asn+(-0.0135)Arg+(-0.0020)Val+(0.0263)Orn+(-0.1284)Trp;0.819,0.848,0.799,0.808,0.801,0.844,0.738,0.798,(3.9075)+(0.0332)Ser+(-0.0013)Ala+(-0.1469)Met+(0.0225)Orn+(0.0018)Lys+(-0.1358)Trp;0.819,0.847,0.804,0.795,0.813,0.833,0.790,0.808,(8.0701)+(-0.0136)Asn+(-0.0877)His+(-0.0592)Met+(0.0340)Orn+(0.0115)Lys+(-0.1025)Trp;0.819,0.844,0.784,0.767,0.776,0.815,0.821,0.795,(2.5521)+(-0.1019)Asn+(0.0105)Gln+(-0.1639)His+(0.0151)Thr+(-0.0014)Leu+(0.0806)Phe;0.819,0.844,0.784,0.773,0.743,0.855,0.847,0.805,(3.3937)+(0.0026)Gln+(-0.0513)Val+(-0.3040)Met+(0.0199)Orn+(0.2002)Ile+(-0.0165)Leu;0.819,0.844,0.757,0.738,0.700,0.857,0.854,0.787,(2.8176)+(0.0506)Ser+(-0.1800)Asn+(-0.0052)Gly+(0.0004)Pro+(-0.0565)Val+(0.1721)Ile;0.819,0

.850,0.797,0.782,0.811,0.823,0.786,0.801,(8.0127)+(-0.0862)His+(0.0071)Pro+(0.0032)Val+(-0.0601)Met+(0.0323)Orn+(-0.1020)Trp;0.819,0.849,0.791,0.780,0.737,0.860,0.883,0.815,(5.0829)+(-0.0074)Ala+(-0.0033)Arg+(0.0092)Pro+(-0.0531)Val+(-0.2409)Met+(0.1898)Ile;0.819,0.849,0.784,0.762,0.806,0.822,0.766,0.789,(8.2458)+(-0.0990)His+(0.0255)Thr+(-0.0416)Cit+(-0.0049)Arg+(0.0261)Leu+(-0.1295)Trp;0.819,0.849,0.789,0.763,0.762,0.854,0.866,0.811,(1.9981)+(0.0096)Gln+(-0.1501)His+(-0.0085)Ala+(-0.0605)Cit+(0.0522)Ile+(0.0596)Phe;0.819,0.842,0.800,0.790,0.836,0.835,0.730,0.798,(7.1473)+(0.0108)Thr+(-0.1170)Cit+(0.0018)Val+(0.0541)Orn+(-0.0088)Lys+(-0.1596)Trp;0.819,0.852,0.809,0.808,0.788,0.806,0.856,0.814,(3.6793)+(-0.0062)Ala+(-0.0280)Val+(0.0161)Orn+(0.0477)Leu+(0.0780)Phe+(-0.1621)Trp;0.819,0.849,0.789,0.768,0.777,0.849,0.824,0.804,(2.9941)+(-0.0069)Asn+(0.0027)Gly+(0.0105)Gln+(-0.1402)His+(-0.1924)Met+(0.0663)Ile;0.819,0.847,0.794,0.792,0.814,0.796,0.756,0.790,(4.8103)+(-0.1225)Cit+(-0.0023)Arg+(-0.0323)Tyr+(0.0500)Orn+(0.0921)Phe+(-0.1671)Trp;0.819,0.843,0.721,0.680,0.730,0.817,0.744,0.743,(1.2908)+(0.0499)Ser+(-0.1542)His+(-0.0376)Cit+(-0.0159)Lys+(0.0113)Leu+(0.0982)Phe;0.819,0.856,0.844,0.855,0.841,0.815,0.839,0.838,(1.8174)+(0.0059)Gln+(-0.0026)Ala+(-0.2243)Met+(0.0063)Orn+(0.1103)Phe+(-0.1458)Trp;0.819,0.855,0.814,0.817,0.836,0.787,0.778,0.804,(5.0202)+(-0.0870)Asn+(0.0231)Thr+(-0.0200)Arg+(-0.0005)Lys+(0.0828)Phe+(-0.1661)Trp;0.819,0.854,0.829,0.829,0.812,0.815,0.873,0.832,(5.0159)+(-0.0669)Asn+(-0.0042)Ala+(-0.0281)Val+(0.0492)Leu+(0.0920)Phe+(-0.1462)Trp;0.819,0.852,0.849,0.861,0.834,0.831,0.861,0.847,(3.2964)+(-0.0890)Asn+(0.0057)Gln+(-0.0053)Ala+(0.0094)Orn+(0.0792)Phe+(-0.1521)Trp;0.819,0.847,0.784,0.784,0.764,0.806,0.809,0.791,(5.2049)+(-0.0030)Pro+(-0.0201)Tyr+(0.0092)Orn+(0.1453)Ile+(-0.0654)Leu+(-0.1371)Trp;0.819,0.853,0.790,0.783,0.801,0.812,0.771,0.792,(5.9163)+(-0.0190)Asn+(0.0293)Thr+(-0

.0128)Arg+(-0.2150)Met+(0.0647)Ile+(-0.1510)Trp;0.819,0.852,0.787,0.777,0.793,0.804,0.788,0.790,(5.2650)+(-0.0007)Gly+(0.0251)Thr+(0.0013)Pro+(-0.2441)Met+(0.0643)Ile+(-0.1536)Trp;0.819,0.849,0.796,0.781,0.810,0.825,0.783,0.800,(5.9683)+(0.0053)Gly+(-0.0756)Cit+(-0.1200)Met+(-0.0004)Lys+(0.0735)Ile+(-0.1522)Trp;0.819,0.848,0.781,0.776,0.745,0.822,0.841,0.796,(6.0222)+(0.0005)Gly+(-0.0185)Arg+(-0.0033)Tyr+(-0.0422)Val+(0.1571)Ile+(-0.1271)Trp;0.819,0.848,0.833,0.842,0.836,0.809,0.820,0.827,(3.9251)+(-0.0224)Asn+(0.0027)Gly+(-0.0024)Ala+(-0.1701)Met+(0.1149)Phe+(-0.1380)Trp;0.819,0.842,0.781,0.766,0.756,0.839,0.831,0.798,(3.5150)+(-0.0710)Asn+(0.0021)Gly+(0.0093)Gln+(-0.1291)His+(0.0991)Ile+(-0.0383)Leu;0.819,0.851,0.822,0.823,0.829,0.854,0.779,0.821,(8.5003)+(-0.0629)Asn+(0.0212)Thr+(-0.0060)Ala+(-0.0727)Cit+(0.0119)Pro+(-0.1421)Trp;0.819,0.851,0.749,0.723,0.714,0.818,0.840,0.774,(2.4771)+(0.0044)Gln+(-0.1359)His+(-0.0327)Val+(0.0136)Orn+(0.1021)Ile+(0.0575)Phe;0.819,0.854,0.810,0.800,0.807,0.833,0.825,0.816,(0.9435)+(0.0133)Gln+(-0.1550)His+(-0.0133)Arg+(-0.2215)Met+(0.0122)Orn+(0.1199)Phe;0.819,0.849,0.808,0.805,0.829,0.799,0.778,0.803,(3.2310)+(0.0031)Gln+(0.0114)Thr+(-0.0984)Cit+(-0.0033)Val+(0.0901)Phe+(-0.1848)Trp;0.819,0.847,0.740,0.710,0.706,0.812,0.840,0.767,(3.6184)+(-0.1247)His+(0.0104)Thr+(-0.0050)Pro+(-0.0354)Val+(0.1167)Ile+(0.0652)Phe;0.819,0.850,0.745,0.714,0.712,0.817,0.843,0.771,(3.6767)+(-0.1185)His+(-0.0046)Pro+(-0.0371)Val+(0.0222)Orn+(0.1174)Ile+(0.0602)Phe;0.819,0.850,0.796,0.794,0.776,0.808,0.832,0.803,(4.2177)+(-0.0016)Gly+(0.0028)Gln+(-0.0036)Lys+(0.1376)Ile+(-0.0629)Leu+(-0.1490)Trp;0.819,0.842,0.715,0.670,0.721,0.826,0.739,0.739,(2.7682)+(0.0449)Ser+(-0.1423)His+(0.0042)Thr+(-0.0161)Arg+(-0.0096)Lys+(0.0639)Ile;0.819,0.840,0.761,0.741,0.713,0.840,0.859,0.788,(5.3141)+(0.0018)Gly+(-0.0883)His+(-0.0077)Ala+(0.0046)Pro+(-0.0351)Val+(0.1392)Ile;0.819,0.850,0.789,0.779,0.804,0.

826,0.760,0.792,(4.5222)+(0.0391)Ser+(-0.0052)Gly+(0.0005)Thr+(-0.075
5)Cit+(0.0092)Pro+(-0.1630)Trp;0.819,0.846,0.780,0.762,0.745,0.850,0.
849,0.802,(6.1603)+(-0.0352)Asn+(-0.1029)His+(0.0129)Thr+(-0.0073)Ala
+(0.1202)Ile+(-0.0448)Leu;0.819,0.845,0.805,0.811,0.780,0.822,0.831,0
.811,(2.5840)+(-0.0771)Asn+(0.0116)Gln+(-0.1440)His+(-0.0365)Tyr+(-0.
0046)Val+(0.1080)Phe;0.819,0.845,0.785,0.769,0.777,0.818,0.821,0.796,
(2.5596)+(-0.1021)Asn+(0.0105)Gln+(-0.1649)His+(0.0155)Thr+(-0.0014)P
ro+(0.0809)Phe;0.819,0.844,0.823,0.821,0.843,0.852,0.763,0.820,(5.689
1)+(0.0054)Gln+(-0.1051)Cit+(-0.0901)Met+(0.0512)Orn+(-0.0021)Lys+(-0
.1471)Trp;0.819,0.841,0.770,0.747,0.764,0.843,0.790,0.786,(2.7598)+(0
.0396)Ser+(-0.0061)Gly+(0.0073)Gln+(-0.1567)His+(0.0068)Val+(-0.0085)
Lys;0.819,0.854,0.797,0.804,0.816,0.777,0.756,0.788,(3.8776)+(0.0165)
Thr+(-0.0282)Arg+(0.0039)Pro+(-0.0095)Val+(0.0912)Phe+(-0.1699)Trp;0.
819,0.853,0.791,0.785,0.778,0.838,0.797,0.800,(4.4334)+(0.0436)Ser+(-
0.1274)Asn+(0.0098)Tyr+(-0.0304)Val+(0.0622)Leu+(-0.1325)Trp;0.819,0.
849,0.829,0.837,0.823,0.826,0.820,0.826,(2.8747)+(0.0025)Gly+(0.0047)
Gln+(-0.0062)Ala+(-0.0971)Cit+(0.1027)Phe+(-0.1701)Trp;0.819,0.845,0.
786,0.769,0.806,0.810,0.774,0.790,(6.0165)+(-0.1098)Cit+(0.0012)Pro+(
-0.0155)Tyr+(0.0413)Orn+(0.05
11)Ile+(-0.1711)Trp;0.819,0.854,0.805,0.809,0.795,0.773,0.839,0.804,(
2.7906)+(-0.0001)Gly+(0.0019)Gln+(-0.0258)Val+(0.0396)Leu+(0.0762)Phe
+(-0.1758)Trp;0.819,0.852,0.796,0.796,0.789,0.776,0.825,0.797,(3.3272
)+(0.0000)Gly+(-0.0285)Val+(0.0132)Orn+(0.0425)Leu+(0.0721)Phe+(-0.17
05)Trp;0.819,0.846,0.804,0.794,0.810,0.833,0.796,0.808,(8.1763)+(-0.0
245)Asn+(-0.0891)His+(-0.0016)Ala+(0.0346)Orn+(0.0092)Lys+(-0.1027)Tr
p;0.819,0.844,0.782,0.762,0.762,0.848,0.826,0.800,(3.6408)+(0.0095)Gl
n+(-0.1546)His+(0.0121)Thr+(-0.0062)Ala+(-0.0234)Arg+(0.0562)Ile;0.81
9,0.845,0.807,0.818,0.807,0.843,0.754,0.806,(4.7085)+(0.0401)Ser+(-0.

0602)Asn+(-0.0007)Ala+(0.0045)Val+(-0.0894)Met+(-0.1339)Trp;0.819,0.849,0.787,0.772,0.801,0.815,0.781,0.792,(7.5634)+(-0.0963)His+(0.0062)Pro+(-0.0052)Tyr+(0.0301)Orn+(0.0069)Lys+(-0.1069)Trp;0.819,0.840,0.767,0.748,0.718,0.838,0.868,0.793,(5.5648)+(-0.0836)His+(-0.0077)Ala+(0.0044)Pro+(-0.0328)Val+(0.1481)Ile+(-0.0106)Leu;0.819,0.848,0.796,0.780,0.808,0.838,0.779,0.801,(4.1077)+(0.0333)Ser+(-0.0052)Ala+(-0.0806)Cit+(0.0094)Tyr+(0.0239)Leu+(-0.1664)Trp;0.819,0.840,0.713,0.671,0.714,0.796,0.762,0.736,(0.7998)+(0.0475)Ser+(-0.0029)Gly+(-0.1688)His+(0.0011)Pro+(0.0022)Leu+(0.0851)Phe;0.819,0.842,0.720,0.688,0.690,0.826,0.789,0.748,(2.8495)+(0.0337)Ser+(-0.1169)His+(-0.0001)Pro+(-0.0160)Tyr+(-0.0276)Val+(0.1204)Ile;0.819,0.854,0.818,0.811,0.813,0.841,0.832,0.824,(0.9180)+(0.0135)Gln+(-0.1475)His+(-0.0408)Cit+(-0.0112)Tyr+(-0.2163)Met+(0.1322)Phe;0.819,0.852,0.786,0.777,0.793,0.804,0.785,0.790,(5.2039)+(0.0250)Thr+(0.0014)Pro+(-0.2451)Met+(-0.0026)Orn+(0.0654)Ile+(-0.1533)Trp;0.819,0.849,0.802,0.787,0.752,0.873,0.896,0.827,(5.1216)+(-0.0247)Asn+(-0.0055)Ala+(0.0196)Tyr+(-0.0550)Val+(-0.2424)Met+(0.1986)Ile;0.819,0.849,0.841,0.851,0.854,0.856,0.776,0.834,(6.5379)+(-0.1007)Asn+(0.0074)Gln+(0.0198)Thr+(-0.0727)Cit+(-0.0050)Arg+(-0.1504)Trp;0.819,0.847,0.782,0.778,0.745,0.820,0.840,0.796,(6.0404)+(-0.0200)Arg+(-0.0051)Tyr+(-0.0427)Val+(0.0029)Lys+(0.1564)Ile+(-0.1286)Trp;0.819,0.851,0.749,0.711,0.760,0.849,0.755,0.769,(3.4027)+(0.0441)Ser+(-0.1235)His+(-0.0263)Val+(-0.1876)Met+(0.0293)Orn+(0.0657)Leu;0.819,0.851,0.781,0.777,0.801,0.825,0.717,0.780,(4.6470)+(0.0337)Ser+(-0.0750)Cit+(-0.0075)Arg+(0.0103)Pro+(-0.0046)Tyr+(-0.1581)Trp;0.819,0.846,0.730,0.715,0.728,0.806,0.721,0.742,(1.1852)+(0.0493)Ser+(-0.1462)His+(-0.0211)Cit+(-0.0177)Arg+(-0.0430)Tyr+(0.1267)Phe;0.819,0.845,0.799,0.795,0.814,0.847,0.743,0.800,(4.7299)+(0.0300)Ser+(0.0057)Thr+(-0.0043)Ala+(-0.0812)Cit+(0.0083)Val+(-0.1594)Trp;0.819,0.845,0.808

,0.800,0.833,0.831,0.758,0.805,(7.8916)+(-0.0510)Asn+(-0.1087)Cit+(0.0064)Pro+(-0.0065)Tyr+(0.0557)Orn+(-0.1471)Trp;0.819,0.842,0.762,0.741,0.729,0.828,0.837,0.784,(6.4709)+(-0.0687)Asn+(-0.0755)His+(-0.0232)Tyr+(-0.0410)Val+(0.0362)Orn+(0.1394)Ile;0.819,0.841,0.808,0.802,0.830,0.845,0.746,0.806,(7.3117)+(0.0023)Gly+(-0.0046)Ala+(-0.1165)Cit+(0.0629)Orn+(-0.0032)Lys+(-0.1418)Trp;0.819,0.854,0.814,0.818,0.828,0.783,0.798,0.807,(4.7581)+(-0.1035)Asn+(0.0177)Thr+(0.0016)Pro+(-0.0052)Leu+(0.0790)Phe+(-0.1597)Trp;0.819,0.850,0.795,0.788,0.727,0.857,0.910,0.820,(3.8947)+(-0.1277)Asn+(-0.0082)Ala+(-0.0596)Val+(0.0000)Lys+(0.1782)Ile+(0.0705)Phe;0.819,0.843,0.732,0.699,0.739,0.812,0.749,0.750,(1.3166)+(0.0541)Ser+(-0.0026)Gly+(-0.1551)His+(-0.0177)Arg+(-0.0091)Lys+(0.1065)Phe;0.819,0.853,0.804,0.820,0.785,0.772,0.826,0.801,(2.7276)+(0.0027)Gln+(-0.0335)Tyr+(-0.0238)Val+(0.0374)Leu+(0.0939)Phe+(-0.1672)Trp;0.819,0.851,0.804,0.806,0.813,0.848,0.746,0.803,(3.4167)+(0.0361)Ser+(0.0266)Tyr+(-0.1972)Met+(0.0177)Orn+(0.0019)Lys+(-0.1449)Trp;0.819,0.851,0.788,0.778,0.795,0.806,0.789,0.792,(5.2938)+(-0.0006)Gly+(0.0256)Thr+(-0.2415)Met+(-0.0018)Orn+(0.0663)Ile+(-0.1538)Trp;0.819,0.851,0.786,0.764,0.803,0.828,0.778,0.793,(7.5946)+(0.0037)Gly+(-0.1005)His+(-0.0631)Met+(0.0311)Orn+(0.0239)Leu+(-0.1065)Trp;0.819,0.849,0.788,0.774,0.780,0.863,0.786,0.801,(2.9544)+(0.0388)Ser+(-0.0057)Gly+(0.0071)Gln+(-0.1343)His+(-0.1388)Met+(0.0253)Orn;0.819,0.848,0.799,0.792,0.745,0.866,0.882,0.821,(4.6937)+(-0.0055)Ala+(-0.0066)Arg+(-0.0561)Val+(-0.2611)Met+(0.0098)Lys+(0.1991)Ile;0.819,0.848,0.790,0.798,0.786,0.832,0.749,0.791,(4.7047)+(0.0399)Ser+(-0.1082)Asn+(0.0089)Pro+(-0.0020)Tyr+(-0.0023)Val+(-0.1310)Trp;0.819,0.847,0.805,0.794,0.810,0.817,0.816,0.809,(4.4485)+(0.0054)Gln+(-0.0854)Cit+(-0.0055)Arg+(-0.0110)Tyr+(0.0633)Ile+(-0.1775)Trp;0.819,0.847,0.805,0.801,0.837,0.822,0.739,0.800,(7.1508)+(0.0301)Thr+(-0.0708)Cit+(-0.1792)Met

+(-0.0020)Lys+(0.0220)Leu+(-0.1550)Trp;0.819,0.846,0.778,0.759,0.793,0.864,0.736,0.788,(3.1754)+(0.0323)Ser+(0.0066)Gln+(-0.1251)His+(-0.0668)Cit+(-0.1406)Met+(0.0435)Orn;0.819,0.840,0.725,0.692,0.713,0.821,0.768,0.749,(1.8627)+(0.0332)Ser+(0.0042)Gln+(-0.1559)His+(0.0000)Pro+(-0.0244)Tyr+(0.0574)Ile;0.819,0.850,0.786,0.761,0.758,0.853,0.863,0.809,(6.1203)+(0.0073)Asn+(-0.0640)His+(0.0177)Tyr+(-0.0439)Val+(-0.2366)Met+(0.1706)Ile;0.819,0.846,0.751,0.726,0.713,0.814,0.851,0.776,(3.7053)+(-0.1111)His+(-0.0043)Pro+(-0.0304)Val+(0.1355)Ile+(-0.0217)Leu+(0.0702)Phe;0.819,0.845,0.763,0.739,0.740,0.824,0.827,0.783,(1.4680)+(0.0083)Gln+(-0.1428)His+(-0.0608)Cit+(0.1086)Ile+(-0.0560)Leu+(0.0762)Phe;0.819,0.851,0.816,0.814,0.796,0.818,0.860,0.822,(2.5906)+(0.0043)Gln+(-0.0092)Ala+(-0.0213)Arg+(0.0571)Ile+(0.0633)Phe+(-0.1742)Trp;0.819,0.850,0.802,0.794,0.825,0.789,0.783,0.798,(3.1616)+(0.0032)Gln+(0.0092)Thr+(-0.1022)Cit+(0.0032)Pro+(0.0824)Phe+(-0.1895)Trp;0.819,0.845,0.730,0.697,0.727,0.823,0.754,0.750,(3.3124)+(0.0486)Ser+(-0.0555)Asn+(-0.1300)His+(-0.0127)Arg+(-0.0174)Tyr+(0.0637)Ile;0.819,0.843,0.804,0.808,0.786,0.824,0.817,0.809,(2.3361)+(-0.0570)Asn+(0.0132)Gln+(-0.1523)His+(-0.0177)Arg+(-0.0383)Tyr+(0.1044)Phe;0.819,0.849,0.822,0.820,0.824,0.853,0.800,0.824,(4.1699)+(0.0467)Ser+(-0.0068)Gly+(-0.0004)Ala+(0.0294)Tyr+(-0.1739)Met+(-0.1414)Trp;0.819,0.848,0.779,0.785,0.714,0.818,0.871,0.797,(4.0195)+(-0.1402)Asn+(-0.0488)Tyr+(-0.0590)Val+(0.0027)Lys+(0.1647)Ile+(0.0882)Phe;0.819,0.844,0.806,0.784,0.783,0.867,0.868,0.826,(3.7282)+(-0.0563)Asn+(0.0118)Gln+(-0.1290)His+(-0.0070)Ala+(-0.0578)Cit+(0.0640)Ile;0.819,0.848,0.779,0.754,0.795,0.822,0.779,0.788,(7.3597)+(0.0033)Gly+(-0.1088)His+(0.0033)Tyr+(0.0288)Orn+(0.0215)Leu+(-0.1131)Trp;0.819,0.840,0.729,0.688,0.728,0.830,0.767,0.753,(1.3632)+(0.0347)Ser+(0.0055)Gln+(-0.1577)His+(-0.0480)Cit+(-0.0025)Pro+(0.0583)Ile;0.819,0.849,0.807,0.819,0.807,0.838,0.754,0

.805,(4.6761)+(0.0390)Ser+(-0.0661)Asn+(0.0028)Val+(-0.1023)Met+(0.0054)Lys+(-0.1367)Trp;0.819,0.842,0.708,0.668,0.703,0.808,0.756,0.734,(0.8013)+(0.0407)Ser+(-0.1631)His+(-0.0178)Val+(0.0147)Orn+(0.0276)Leu+(0.0833)Phe;0.819,0.847,0.801,0.796,0.824,0.795,0.768,0.796,(3.0073)+(0.0014)Gly+(0.0031)Gln+(0.0098)Thr+(-0.1022)Cit+(0.0865)Phe+(-0.1883)Trp;0.819,0.846,0.741,0.724,0.731,0.777,0.780,0.753,(4.9638)+(-0.0610)Asn+(-0.1432)His+(0.0272)Thr+(-0.0649)Tyr+(0.0348)Ile+(0.0932)Phe;0.819,0.850,0.810,0.805,0.818,0.812,0.805,0.810,(4.4332)+(0.0185)Thr+(-0.0078)Ala+(-0.0970)Cit+(0.0098)Leu+(0.0967)Phe+(-0.1835)Trp;0.819,0.850,0.810,0.827,0.801,0.795,0.795,0.804,(4.9071)+(-0.0950)Asn+(0.0255)Thr+(-0.0051)Ala+(-0.0347)Tyr+(0.1031)Phe+(-0.1487)Trp;0.819,0.849,0.733,0.702,0.720,0.836,0.768,0.756,(1.0770)+(0.0463)Ser+(-0.1476)His+(-0.0075)Ala+(-0.0418)Cit+(0.0084)Pro+(0.0973)Phe;0.819,0.846,0.831,0.838,0.824,0.857,0.810,0.832,(6.1160)+(0.0112)Gln+(-0.0981)His+(-0.0002)Ala+(-0.0303)Cit+(-0.0084)Arg+(-0.1008)Trp;0.819,0.846,0.728,0.696,0.719,0.835,0.753,0.751,(2.7001)+(0.0431)Ser+(-0.1234)His+(-0.0242)Arg+(-0.0015)Pro+(0.1219)Ile+(-0.0439)Leu;0.819,0.846,0.825,0.831,0.820,0.848,0.806,0.826,(5.8373)+(0.0110)Gln+(-0.1063)His+(-0.0248)Cit+(-0.0148)Arg+(0.0087)Lys+(-0.1062)Trp;0.819,0.839,0.720,0.683,0.698,0.833,0.779,0.748,(2.6636)+(0.0361)Ser+(-0.1110)His+(-0.0415)Cit+(-0.0255)Val+(0.1296)Ile+(-0.0108)Leu;0.819,0.856,0.841,0.853,0.844,0.800,0.835,0.833,(3.1394)+(-0.0844)Asn+(0.0065)Gln+(-0.0160)Arg+(0.0028)Pro+(0.0775)Phe+(-0.1624)Trp;0.819,0.849,0.791,0.781,0.805,0.829,0.759,0.794,(4.7650)+(0.0404)Ser+(-0.0053)Gly+(-0.0731)Cit+(0.0096)Pro+(-0.0040)Lys+(-0.1572)Trp;0.819,0.844,0.810,0.794,0.833,0.842,0.783,0.813,(7.5401)+(-0.0058)Ala+(-0.1197)Cit+(0.0614)Orn+(-0.0073)Lys+(0.0188)Leu+(-0.1524)Trp;0.819,0.843,0.798,0.783,0.768,0.856,0.858,0.816,(3.9617)+(-0.0510)Asn+(0.0103)Gln+(-0.1376)His+(-0.0052)Ala+(-0.0144)Tyr+

(0.0569)Ile;0.819,0.851,0.791,0.800,0.785,0.829,0.752,0.791,(4.6686)+(0.0394)Ser+(-0.1160)Asn+(0.0090)Pro+(-0.0036)Val+(0.0036)Lys+(-0.1332)Trp;0.819,0.851,0.795,0.785,0.796,0.816,0.804,0.800,(4.3235)+(0.0512)Ser+(-0.1088)Asn+(-0.0071)Gly+(0.0064)Pro+(0.0098)Leu+(-0.1456)Trp;0.819,0.846,0.814,0.819,0.813,0.835,0.786,0.813,(4.4245)+(0.0449)Ser+(-0.0075)Gly+(0.0005)Ala+(-0.1451)Met+(0.0042)Lys+(-0.1370)Trp;0.819,0.842,0.726,0.697,0.703,0.832,0.774,0.752,(3.1493)+(0.0394)Ser+(-0.1070)His+(-0.0234)Arg+(-0.0095)Tyr+(-0.0313)Val+(0.1328)Ile;0.819,0.852,0.792,0.769,0.806,0.822,0.801,0.800,(7.9246)+(-0.0928)His+(0.0057)Pro+(-0.0707)Met+(0.0302)Orn+(0.0192)Leu+(-0.1086)Trp;0.819,0.846,0.798,0.794,0.801,0.837,0.778,0.802,(8.1059)+(-0.0958)His+(0.0192)Thr+(-0.0018)Ala+(0.0063)Tyr+(0.0053)Lys+(-0.1100)Trp;0.818,0.847,0.786,0.766,0.755,0.849,0.858,0.807,(6.3961)+(-0.0616)His+(0.0010)Arg+(-0.0409)Val+(-0.2028)Met+(0.1718)Ile+(-0.0053)Leu;0.818,0.844,0.772,0.745,0.755,0.825,0.836,0.790,(2.1395)+(0.0093)Gln+(-0.1678)His+(-0.0040)Pro+(-0.0112)Lys+(0.0408)Ile+(0.0586)Phe;0.818,0.852,0.811,0.800,0.808,0.833,0.831,0.818,(0.8128)+(0.0139)Gln+(-0.1569)His+(-0.0116)Arg+(-0.2306)Met+(0.0058)Leu+(0.1200)Phe;0.818,0.851,0.818,0.821,0.824,0.855,0.774,0.818,(5.4193)+(0.0441)Ser+(-0.0058)Gly+(-0.0526)Cit+(-0.0000)Arg+(-0.1040)Met+(-0.1314)Trp;0.818,0.849,0.788,0.782,0.799,0.825,0.756,0.790,(4.7061)+(0.0399)Ser+(-0.0056)Gly+(-0.0725)Cit+(0.0102)Pro+(-0.0107)Tyr+(-0.1574)Trp;0.818,0.848,0.797,0.793,0.800,0.822,0.785,0.800,(3.5037)+(0.0512)Ser+(-0.0070)Gly+(-0.0063)Arg+(-0.1695)Met+(0.0225)Leu+(-0.1440)Trp;0.818,0.844,0.760,0.742,0.721,0.837,0.835,0.784,(6.0562)+(-0.0910)His+(0.0187)Thr+(-0.0065)Ala+(-0.0229)Arg+(-0.0386)Val+(0.1511)Ile;0.818,0.841,0.714,0.669,0.718,0.800,0.763,0.738,(0.7976)+(0.0463)Ser+(-0.0030)Gly+(-0.1697)His+(0.0100)Orn+(0.0011)Leu+(0.0840)Phe;0.818,0.855,0.837,0.846,0.

837,0.802,0.836,0.830,(3.0756)+(-0.1010)Asn+(0.0006)Gly+(0.0056)Gln+(0.0057)Orn+(0.0721)Phe+(-0.1599)Trp;0.818,0.852,0.811,0.816,0.822,0.780,0.798,0.804,(3.2853)+(0.0023)Gly+(0.0078)Pro+(-0.2328)Met+(-0.0006)Leu+(0.1118)Phe+(-0.1436)Trp;0.818,0.849,0.788,0.781,0.773,0.805,0.822,0.795,(4.9475)+(-0.0006)Gly+(0.0045)Orn+(-0.0019)Lys+(0.1376)Ile+(-0.0635)Leu+(-0.1447)Trp;0.818,0.848,0.776,0.760,0.776,0.847,0.769,0.788,(2.4890)+(0.0393)Ser+(-0.0815)Asn+(0.0097)Gln+(-0.1518)His+(-0.0182)Arg+(0.0199)Leu;0.818,0.846,0.717,0.698,0.714,0.798,0.712,0.731,(1.2067)+(0.0419)Ser+(-0.1520)His+(0.0097)Thr+(-0.0394)Cit+(-0.0508)Tyr+(0.1203)Phe;0.818,0.846,0.785,0.772,0.745,0.855,0.852,0.806,(3.4003)+(0.0025)Gln+(0.0017)Pro+(-0.0561)Val+(-0.3130)Met+(0.0199)Orn+(0.1860)Ile;0.818,0.855,0.844,0.857,0.840,0.808,0.843,0.837,(1.6961)+(0.0060)Gln+(-0.0025)Ala+(-0.2294)Met+(0.0023)Lys+(0.1127)Phe+(-0.1482)Trp;0.818,0.853,0.819,0.823,0.794,0.803,0.867,0.822,(2.8428)+(0.0027)Gln+(-0.0063)Ala+(-0.0247)Val+(0.0443)Leu+(0.0835)Phe+(-0.1700)Trp;0.818,0.851,0.832,0.844,0.834,0.803,0.814,0.824,(3.6179)+(0.0024)Gly+(-0.0017)Ala+(-0.0049)Val+(-0.1903)Met+(0.1237)Phe+(-0.1352)Trp;0.818,0.847,0.727,0.695,0.718,0.834,0.753,0.750,(2.7274)+(0.0440)Ser+(-0.1222)His+(-0.0224)Arg+(-0.0037)Lys+(0.1182)Ile+(-0.0410)Leu;0.818,0.840,0.730,0.699,0.728,0.815,0.753,0.749,(0.0463)+(0.0383)Ser+(0.0050)Gln+(-0.1713)His+(-0.0399)Cit+(-0.0014)Val+(0.0929)Phe;0.818,0.857,0.845,0.858,0.851,0.803,0.831,0.836,(1.7130)+(0.0070)Gln+(-0.0109)Arg+(0.0054)Tyr+(-0.2384)Met+(0.1127)Phe+(-0.1496)Trp;0.818,0.849,0.779,0.762,0.793,0.817,0.767,0.785,(8.2064)+(-0.1099)His+(0.0259)Thr+(-0.0117)Arg+(-0.0021)Tyr+(0.0249)Leu+(-0.1221)Trp;0.818,0.849,0.800,0.786,0.749,0.872,0.889,0.824,(4.6610)+(-0.0058)Ala+(0.0193)Tyr+(-0.0495)Val+(-0.2626)Met+(0.2112)Ile+(-0.0167)Leu;0.818,0.848,0.786,0.775,0.749,0.863,0.837,0.806,(5.4418)+(-0.0443)Asn+(0.0051)Gly+(-0.0483)Cit+(-0.0527)Val

+(-0.2174)Met+(0.1877)Ile;0.818,0.846,0.800,0.796,0.806,0.833,0.776,0.803,(8.1395)+(-0.0173)Asn+(0.0024)Gly+(-0.0859)His+(-0.0013)Ala+(0.0381)Orn+(-0.0949)Trp;0.818,0.842,0.798,0.799,0.794,0.828,0.786,0.801,(8.4359)+(-0.0134)Asn+(0.0031)Gly+(-0.0765)His+(-0.0033)Ala+(0.0115)Pro+(-0.0962)Trp;0.818,0.847,0.787,0.783,0.770,0.809,0.818,0.795,(4.8193)+(0.0012)Thr+(-0.0045)Pro+(0.0046)Orn+(0.1449)Ile+(-0.0658)Leu+(-0.1464)Trp;0.818,0.845,0.761,0.730,0.740,0.844,0.828,0.786,(6.4895)+(-0.0786)Asn+(-0.0666)His+(-0.0660)Cit+(-0.0442)Val+(0.0523)Orn+(0.1419)Ile;0.818,0.844,0.720,0.682,0.719,0.805,0.762,0.742,(0.9401)+(0.0455)Ser+(-0.0033)Gly+(-0.1633)His+(-0.0054)Val+(0.0147)Orn+(0.0927)Phe;0.818,0.847,0.792,0.779,0.822,0.785,0.768,0.789,(4.1867)+(0.0127)Thr+(-0.0987)Cit+(0.0032)Pro+(0.0009)Leu+(0.0840)Phe+(-0.1875)Trp;0.818,0.844,0.801,0.797,0.816,0.848,0.751,0.803,(4.8289)+(0.0342)Ser+(-0.0037)Ala+(-0.0788)Cit+(0.0102)Val+(-0.0049)Lys+(-0.1528)Trp;0.818,0.843,0.747,0.730,0.694,0.856,0.822,0.775,(2.9111)+(0.0418)Ser+(-0.1864)Asn+(0.0080)Thr+(-0.0564)Val+(-0.0060)Lys+(0.1772)Ile;0.818,0.853,0.815,0.811,0.807,0.836,0.829,0.821,(1.0040)+(0.0137)Gln+(-0.1520)His+(-0.0123)Arg+(-0.0028)Val+(-0.2191)Met+(0.1294)Phe;0.818,0.852,0.816,0.811,0.816,0.813,0.829,0.817,(4.9877)+(-0.0089)Ala+(-0.0939)Cit+(0.0010)Arg+(0.0125)Pro+(0.0999)Phe+(-0.1635)Trp;0.818,0.848,0.772,0.759,0.769,0.856,0.754,0.785,(2.3683)+(0.0375)Ser+(0.0073)Gln+(-0.1347)His+(0.0112)Pro+(0.0122)Tyr+(-0.1978)Met;0.818,0.844,0.780,0.760,0.799,0.823,0.764,0.786,(7.7024)+(0.0059)Gly+(-0.0866)His+(-0.0494)Cit+(0.0066)Pro+(0.0252)Leu+(-0.1225)Trp;0.818,0.843,0.810,0.795,0.839,0.833,0.770,0.809,(7.7980)+(-0.0426)Asn+(-0.1117)Cit+(0.0570)Orn+(-0.0038)Lys+(0.0109)Leu+(-0.1531)Trp;0.818,0.842,0.728,0.698,0.733,0.813,0.733,0.744,(1.1849)+(0.0503)Ser+(-0.1552)His+(-0.0191)Arg+(-0.0016)Val+(-0.0076)Lys+(0.1102)Phe;0.818,0.849,0.801,0.805,0.816,0.843,0.731,0.799,(3.85

20)+(0.0334)Ser+(0.0126)Thr+(0.0275)Tyr+(0.0029)Val+(-0.2204)Met+(-0.1519)Trp;0.818,0.849,0.810,0.810,0.809,0.832,0.793,0.811,(4.9850)+(0.0476)Ser+(-0.1030)Asn+(-0.0077)Gly+(-0.0054)Tyr+(0.0236)Orn+(-0.1348)Trp;0.818,0.848,0.789,0.788,0.808,0.825,0.724,0.786,(4.0871)+(0.0309)Ser+(0.0022)Gln+(-0.0779)Cit+(-0.0101)Arg+(0.0095)Pro+(-0.1632)Trp;0.818,0.848,0.794,0.803,0.807,0.833,0.716,0.790,(4.2354)+(0.0308)Ser+(0.0138)Thr+(0.0037)Val+(-0.1832)Met+(0.0007)Lys+(-0.1459)Trp;0.818,0.846,0.790,0.772,0.787,0.828,0.817,0.801,(2.6046)+(-0.1091)Asn+(0.0116)Gln+(-0.1575)His+(0.0171)Thr+(-0.0494)Cit+(0.0859)Phe;0.818,0.842,0.798,0.777,0.773,0.857,0.862,0.817,(3.7686)+(-0.0543)Asn+(0.0102)Gln+(-0.1407)His+(-0.0063)Ala+(0.0023)Pro+(0.0527)Ile;0.818,0.842,0.735,0.702,0.733,0.817,0.768,0.755,(0.0561)+(0.0413)Ser+(-0.0024)Gly+(0.0054)Gln+(-0.1733)His+(-0.0373)Cit+(0.0882)Phe;0.818,0.850,0.805,0.819,0.810,0.850,0.725,0.801,(3.4581)+(0.0333)Ser+(0.0029)Gln+(-0.0153)Arg+(-0.1489)Met+(0.0237)Orn+(-0.1354)Trp;0.818,0.844,0.787,0.768,0.782,0.858,0.798,0.801,(3.2648)+(0.0404)Ser+(-0.0921)Asn+(-0.0053)Gly+(0.0080)Gln+(-0.1368)His+(0.0210)Orn;0.818,0.844,0.771,0.759,0.716,0.877,0.842,0.799,(0.6701)+(0.0356)Ser+(-0.0132)Thr+(-0.0126)Ala+(-0.0899)Cit+(0.1961)Ile+(-0.0862)Leu;0.818,0.847,0.794,0.789,0.820,0.795,0.751,0.789,(3.9844)+(0.0018)Gly+(0.0137)Thr+(-0.0975)Cit+(-0.0034)Val+(0.0941)Phe+(-0.1817)Trp;0.818,0.845,0.821,0.823,0.849,0.849,0.737,0.814,(7.5121)+(0.0005)Gly+(0.0270)Thr+(-0.0652)Cit+(0.0229)Tyr+(-0.1796)Met+(-0.1478)Trp;0.818,0.849,0.800,0.790,0.779,0.810,0.862,0.810,(3.2938)+(0.0010)Gly+(-0.0095)Ala+(-0.0038)Orn+(0.0585)Ile+(0.0596)Phe+(-0.1722)Trp;0.818,0.845,0.721,0.686,0.718,0.806,0.759,0.742,(-0.0136)+(0.0375)Ser+(0.0039)Gln+(-0.1805)His+(0.0000)Pro+(0.0060)Orn+(0.0852)Phe;0.818,0.847,0.728,0.692,0.722,0.822,0.769,0.751,(3.1973)+(0.0465)Ser+(-0.0671)Asn+(-0.1313)His+(0.0014)Pro+(-0.0208)Tyr+(0.0612)Ile;0.818,

0.852,0.832,0.842,0.833,0.806,0.819,0.825,(3.9117)+(-0.0019)Ala+(-0.0068)Val+(-0.1895)Met+(0.0186)Orn+(0.1138)Phe+(-0.1311)Trp;0.818,0.851,0.786,0.768,0.748,0.858,0.859,0.808,(5.1490)+(-0.0531)Asn+(0.0090)Tyr+(-0.0591)Val+(-0.2532)Met+(0.0310)Orn+(0.1900)Ile;0.818,0.836,0.773,0.754,0.759,0.847,0.802,0.790,(2.6874)+(0.0372)Ser+(-0.0054)Gly+(0.0067)Gln+(-0.1554)His+(-0.0035)Ala+(0.0069)Val;0.818,0.851,0.826,0.840,0.815,0.860,0.792,0.827,(4.0631)+(0.0345)Ser+(-0.1111)Asn+(0.0041)Gln+(-0.0023)Ala+(0.0090)Tyr+(-0.1357)Trp;0.818,0.849,0.756,0.755,0.726,0.848,0.754,0.771,(2.3620)+(0.0377)Ser+(-0.1112)Asn+(-0.0740)Cit+(-0.0346)Tyr+(0.1563)Ile+(-0.0743)Leu;0.818,0.848,0.804,0.802,0.813,0.839,0.762,0.804,(9.1026)+(-0.0320)Asn+(-0.0865)His+(0.0266)Thr+(-0.0104)Arg+(0.0069)Tyr+(-0.1076)Trp;0.818,0.840,0.748,0.719,0.732,0.846,0.786,0.771,(2.1945)+(0.0341)Ser+(0.0050)Gln+(-0.1578)His+(-0.0065)Ala+(0.0075)Pro+(0.0200)Leu;0.818,0.847,0.739,0.709,0.708,0.809,0.836,0.765,(3.5081)+(-0.1165)His+(-0.0324)Val+(0.0190)Orn+(0.1230)Ile+(-0.0159)Leu+(0.0617)Phe;0.818,0.847,0.793,0.774,0.808,0.785,0.820,0.797,(4.2344)+(-0.0934)Cit+(-0.0027)Arg+(0.0001)Pro+(0.0503)Ile+(0.0664)Phe+(-0.1871)Trp;0.818,0.844,0.770,0.754,0.739,0.835,0.833,0.790,(5.8665)+(-0.0998)His+(-0.0064)Ala+(-0.0238)Tyr+(0.0264)Orn+(0.1243)Ile+(-0.0490)Leu;0.818,0.853,0.822,0.821,0.817,0.794,0.854,0.821,(2.9441)+(-0.0953)Asn+(0.0054)Gln+(-0.0019)Pro+(0.0394)Ile+(0.0539)Phe+(-0.1723)Trp;0.818,0.843,0.755,0.737,0.681,0.856,0.887,0.790,(1.5457)+(0.0413)Ser+(-0.0088)Gly+(-0.0101)Ala+(-0.0494)Val+(-0.0185)Lys+(0.1817)Ile;0.818,0.852,0.786,0.776,0.791,0.807,0.784,0.790,(5.2677)+(0.0252)Thr+(0.0011)Pro+(-0.2397)Met+(-0.0023)Lys+(0.0659)Ile+(-0.1516)Trp;0.818,0.851,0.790,0.778,0.798,0.807,0.791,0.793,(5.1427)+(-0.0004)Gly+(0.0248)Thr+(0.0082)Tyr+(-0.2523)Met+(0.0653)Ile+(-0.1555)Trp;0.818,0.848,0.797,0.807,0.805,0.842,0.720,0.794,(4.3221)+(0.0307)Ser+(0.0143)Thr+(-0.0

013)Ala+(0.0045)Val+(-0.1745)Met+(-0.1448)Trp;0.818,0.842,0.790,0.775,0.763,0.848,0.845,0.808,(3.7005)+(-0.0652)Asn+(0.0098)Gln+(-0.1286)His+(-0.0036)Pro+(0.1057)Ile+(-0.0403)Leu;0.818,0.852,0.783,0.771,0.795,0.826,0.758,0.787,(4.1004)+(0.0325)Ser+(-0.0749)Cit+(0.0002)Tyr+(-0.0152)Val+(0.0422)Leu+(-0.1679)Trp;0.818,0.850,0.798,0.789,0.756,0.854,0.868,0.817,(5.6155)+(-0.0438)Asn+(-0.0377)Cit+(-0.0566)Val+(-0.2475)Met+(0.0105)Lys+(0.1894)Ile;0.818,0.848,0.785,0.761,0.758,0.852,0.854,0.806,(6.6272)+(-0.0570)His+(-0.0270)Cit+(0.0033)Pro+(-0.0427)Val+(-0.2004)Met+(0.1656)Ile;0.818,0.843,0.742,0.713,0.708,0.813,0.838,0.768,(3.4354)+(0.0028)Gly+(-0.1187)His+(-0.0038)Pro+(-0.0351)Val+(0.1172)Ile+(0.0670)Phe;0.818,0.845,0.704,0.654,0.707,0.808,0.754,0.731,(0.3280)+(0.0458)Ser+(-0.1630)His+(-0.0430)Cit+(-0.0037)Pro+(0.0442)Ile+(0.0716)Phe;0.818,0.852,0.803,0.795,0.811,0.789,0.821,0.804,(2.9082)+(0.0030)Gly+(0.0061)Tyr+(-0.2569)Met+(0.0541)Ile+(0.0886)Phe+(-0.1530)Trp;0.818,0.852,0.798,0.812,0.802,0.770,0.769,0.788,(4.8285)+(-0.0945)Asn+(0.0249)Thr+(-0.0427)Tyr+(-0.0036)Lys+(0.1000)Phe+(-0.1514)Trp;0.818,0.848,0.785,0.771,0.808,0.827,0.748,0.788,(4.3443)+(0.0358)Ser+(-0.0824)Cit+(0.0018)Arg+(-0.0102)Lys+(0.0248)Leu+(-0.1651)Trp;0.818,0.848,0.791,0.759,0.785,0.835,0.857,0.809,(4.3501)+(-0.1187)His+(-0.0048)Ala+(0.0051)Arg+(-0.2097)Met+(0.0554)Ile+(0.0936)Phe;0.818,0.846,0.818,0.816,0.849,0.841,0.741,0.812,(7.3940)+(0.0270)Thr+(-0.0687)Cit+(0.0202)Tyr+(0.0039)Val+(-0.1814)Met+(-0.1528)Trp;0.818,0.844,0.795,0.773,0.773,0.858,0.856,0.815,(3.8237)+(-0.0555)Asn+(0.0098)Gln+(-0.1425)His+(-0.0060)Ala+(0.0119)Orn+(0.0515)Ile;0.818,0.841,0.760,0.733,0.729,0.834,0.839,0.784,(6.1312)+(-0.0750)Asn+(-0.0791)His+(-0.0423)Val+(0.0330)Orn+(0.1369)Ile+(0.0003)Leu;0.818,0.852,0.833,0.855,0.823,0.790,0.829,0.824,(3.0221)+(-0.0889)Asn+(0.0063)Gln+(-0.0299)Tyr+(-0.0026)Leu+(0.0925)Phe+(-0.1494)Trp;0.818,0.851,0.811,0.802,0.818,0.78

6,0.836,0.810,(3.7217)+(-0.0034)Asn+(-0.0032)Arg+(-0.2260)Met+(0.0525)Ile+(0.0872)Phe+(-0.1520)Trp;0.818,0.846,0.768,0.744,0.738,0.844,0.842,0.792,(5.4146)+(-0.1122)His+(0.0063)Thr+(-0.0075)Ala+(0.0193)Orn+(0.1173)Ile+(-0.0458)Leu;0.818,0.845,0.795,0.778,0.771,0.858,0.842,0.812,(3.6156)+(-0.0713)Asn+(0.0112)Gln+(-0.1166)His+(-0.0554)Cit+(0.1105)Ile+(-0.0436)Leu;0.818,0.841,0.795,0.784,0.827,0.832,0.727,0.793,(6.7857)+(0.0021)Gly+(-0.1179)Cit+(0.0059)Pro+(0.0552)Orn+(-0.0056)Lys+(-0.1566)Trp;0.818,0.839,0.715,0.674,0.717,0.798,0.763,0.738,(0.8057)+(0.0480)Ser+(-0.0028)Gly+(-0

.1680)His+(-0.0013)Thr+(0.0029)Leu+(0.0862)Phe;0.818,0.855,0.813,0.825,0.809,0.774,0.819,0.807,(2.6404)+(0.0026)Gln+(0.0034)Pro+(-0.0070)Val+(-0.0051)Lys+(0.0815)Phe+(-0.1663)Trp;0.818,0.852,0.770,0.741,0.777,0.852,0.776,0.786,(1.4966)+(0.0404)Ser+(0.0076)Gln+(-0.1534)His+(0.0176)Tyr+(-0.2138)Met+(0.0291)Leu;0.818,0.848,0.747,0.719,0.727,0.804,0.821,0.768,(3.5651)+(-0.1339)His+(0.0077)Thr+(-0.0063)Pro+(0.1088)Ile+(-0.0544)Leu+(0.0731)Phe;0.818,0.848,0.715,0.672,0.715,0.822,0.752,0.740,(2.8403)+(0.0409)Ser+(-0.1406)His+(-0.0214)Tyr+(0.0180)Orn+(-0.0113)Lys+(0.0634)Ile;0.818,0.847,0.798,0.787,0.779,0.837,0.836,0.810,(2.8220)+(-0.0978)Asn+(0.0102)Gln+(-0.1574)His+(0.0164)Thr+(-0.0045)Ala+(0.0859)Phe;0.818,0.846,0.803,0.800,0.834,0.822,0.733,0.798,(6.9501)+(0.0008)Gly+(0.0289)Thr+(-0.0713)Cit+(-0.1836)Met+(0.0215)Leu+(-0.1553)Trp;0.818,0.855,0.812,0.816,0.835,0.786,0.773,0.802,(4.9799)+(-0.0872)Asn+(0.0220)Thr+(-0.0209)Arg+(0.0065)Orn+(0.0791)Phe+(-0.1654)Trp;0.818,0.847,0.789,0.785,0.772,0.810,0.823,0.797,(4.9428)+(-0.0006)Gly+(-0.0043)Pro+(0.0058)Orn+(0.1448)Ile+(-0.0660)Leu+(-0.1452)Trp;0.818,0.843,0.722,0.687,0.731,0.816,0.730,0.741,(1.5375)+(0.0463)Ser+(-0.1542)His+(0.0067)Thr+(-0.0389)Cit+(-0.0148)Lys+(0.1069)Phe;0.818,0.855,0.822,0.824,0.815,0.793,0.855,0.822,(4.9736)+(-0.0837)Asn+(-0.02

97)Val+(0.0031)Lys+(0.0457)Leu+(0.0870)Phe+(-0.1489)Trp;0.818,0.849,0.785,0.762,0.776,0.849,0.820,0.802,(2.9961)+(0.0025)Gly+(0.0100)Gln+(-0.1418)His+(-0.1969)Met+(0.0069)Orn+(0.0645)Ile;0.818,0.845,0.808,0.808,0.816,0.848,0.761,0.808,(3.9683)+(0.0289)Ser+(0.0027)Gln+(-0.0042)Ala+(-0.0823)Cit+(0.0086)Val+(-0.1600)Trp;0.818,0.844,0.799,0.790,0.783,0.831,0.831,0.809,(2.6747)+(-0.0876)Asn+(0.0105)Gln+(-0.1477)His+(-0.0087)Val+(0.0179)Orn+(0.0874)Phe;0.818,0.843,0.789,0.778,0.744,0.856,0.866,0.811,(4.4527)+(-0.0980)Asn+(0.0088)Gln+(-0.0979)His+(-0.0021)Pro+(-0.0349)Val+(0.1296)Ile;0.818,0.843,0.800,0.791,0.832,0.832,0.735,0.797,(7.2398)+(-0.0572)Asn+(0.0040)Gly+(-0.1149)Cit+(0.0546)Orn+(0.0104)Leu+(-0.1545)Trp;0.818,0.855,0.815,0.817,0.830,0.787,0.797,0.808,(4.7753)+(-0.0977)Asn+(0.0184)Thr+(0.0043)Orn+(-0.0038)Lys+(0.0759)Phe+(-0.1610)Trp;0.818,0.852,0.814,0.808,0.808,0.835,0.830,0.820,(0.9611)+(0.0138)Gln+(-0.1542)His+(-0.0006)Ala+(-0.0122)Arg+(-0.2183)Met+(0.1253)Phe;0.818,0.850,0.835,0.837,0.836,0.826,0.833,0.833,(5.7237)+(-0.0449)Asn+(-0.0047)Ala+(-0.0806)Cit+(0.0019)Lys+(0.1049)Phe+(-0.1536)Trp;0.818,0.847,0.795,0.799,0.772,0.816,0.812,0.800,(2.2177)+(-0.0781)Asn+(0.0029)Gly+(0.0110)Gln+(-0.1514)His+(-0.0373)Tyr+(0.1037)Phe;0.818,0.847,0.764,0.750,0.754,0.785,0.807,0.774,(2.3892)+(0.0416)Ser+(-0.0080)Gly+(-0.0026)Thr+(-0.0257)Tyr+(0.0563)Ile+(-0.1640)Trp;0.818,0.845,0.754,0.739,0.683,0.856,0.871,0.787,(-0.4820)+(0.0260)Ser+(-0.0138)Ala+(-0.0840)Cit+(-0.0505)Val+(0.1756)Ile+(0.0503)Phe;0.818,0.845,0.778,0.763,0.740,0.849,0.845,0.799,(4.1705)+(0.0007)Gly+(0.0018)Pro+(-0.0568)Val+(-0.2970)Met+(0.0238)Orn+(0.1874)Ile;0.818,0.852,0.831,0.852,0.822,0.787,0.829,0.822,(2.9812)+(-0.0892)Asn+(0.0002)Gly+(0.0062)Gln+(-0.0300)Tyr+(0.0904)Phe+(-0.1516)Trp;0.818,0.849,0.778,0.781,0.795,0.772,0.740,0.772,(4.1937)+(0.0190)Thr+(-0.0967)Cit+(0.0055)Pro+(-0.0459)Tyr+(0.1065)Phe+(-0.1767)Trp;0.818,0.848,0.826,0.833,0

.831,0.805,0.812,0.820,(5.6998)+(-0.0463)Asn+(-0.0770)Cit+(-0.0173)Tyr+(-0.0025)Val+(0.1082)Phe+(-0.1495)Trp;0.818,0.848,0.835,0.841,0.828,0.826,0.836,0.833,(3.0945)+(0.0052)Gln+(-0.0064)Ala+(-0.0953)Cit+(0.0015)Val+(0.0991)Phe+(-0.1716)Trp;0.818,0.845,0.803,0.789,0.822,0.833,0.780,0.806,(7.1248)+(-0.0961)Cit+(-0.0256)Val+(-0.0952)Met+(0.0573)Orn+(0.0536)Leu+(-0.1460)Trp;0.818,0.839,0.718,0.668,0.717,0.817,0.781,0.746,(2.2889)+(0.0461)Ser+(-0.0038)Gly+(-0.1513)His+(-0.0024)Thr+(-0.0014)Pro+(0.0565)Ile;0.818,0.853,0.810,0.800,0.798,0.836,0.839,0.818,(6.2295)+(-0.0071)Arg+(0.0154)Tyr+(-0.1594)Met+(0.1531)Ile+(-0.0630)Leu+(-0.1271)Trp;0.818,0.853,0.800,0.806,0.805,0.760,0.800,0.793,(3.3743)+(-0.0014)Gly+(0.0078)Thr+(0.0029)Pro+(-0.0088)Val+(0.0784)Phe+(-0.1695)Trp;0.818,0.852,0.782,0.778,0.801,0.831,0.722,0.783,(4.6841)+(0.0334)Ser+(-0.0796)Cit+(0.0102)Pro+(-0.0045)Tyr+(-0.0034)Lys+(-0.1563)Trp;0.818,0.844,0.798,0.784,0.806,0.827,0.796,0.803,(7.8962)+(-0.0980)His+(-0.0024)Ala+(0.0049)Val+(0.0321)Orn+(0.0067)Lys+(-0.1078)Trp;0.818,0.847,0.809,0.805,0.818,0.852,0.770,0.811,(8.7916)+(-0.0806)His+(0.0233)Thr+(-0.0022)Ala+(-0.0423)Cit+(0.0115)Tyr+(-0.1138)Trp;0.818,0.847,0.804,0.798,0.827,0.794,0.781,0.800,(3.1542)+(0.0032)Gln+(0.0104)Thr+(-0.1008)Cit+(0.0019)Leu+(0.0834)Phe+(-0.1900)Trp;0.818,0.851,0.794,0.769,0.802,0.834,0.811,0.804,(7.9845)+(-0.0891)His+(-0.0228)Val+(-0.0674)Met+(0.0386)Orn+(0.0574)Leu+(-0.1031)Trp;0.818,0.847,0.783,0.788,0.803,0.775,0.733,0.775,(4.1731)+(0.0006)Gly+(0.0201)Thr+(-0.0956)Cit+(-0.0413)Tyr+(0.1094)Phe+(-0.1768)Trp;0.818,0.843,0.819,0.816,0.836,0.847,0.775,0.818,(5.8482)+(0.0041)Gln+(-0.0058)Ala+(-0.1174)Cit+(0.0035)Val+(0.0540)Orn+(-0.1577)Trp;0.818,0.848,0.749,0.726,0.704,0.861,0.820,0.778,(2.7592)+(0.0429)Ser+(-0.1892)Asn+(-0.0576)Val+(0.0281)Orn+(-0.0065)Lys+(0.1747)Ile;0.818,0.846,0.794,0.772,0.802,0.829,0.811,0.803,(7.8937)+(-0.1024)His+(-0.0030)Ala+(0.0314)Orn+(0.0040

)Lys+(0.0207)Leu+(-0.1126)Trp;0.818,0.846,0.715,0.667,0.727,0.831,0.737,0.740,(2.6633)+(0.0451)Ser+(-0.1430)His+(-0.0159)Arg+(0.0166)Orn+(-0.0103)Lys+(0.0607)Ile;0.818,0.845,0.779,0.755,0.750,0.847,0.852,0.801,(5.9253)+(-0.0225)Asn+(-0.0993)His+(-0.0072)Ala+(0.0242)Orn+(0.1223)Ile+(-0.0501)Leu;0.818,0.849,0.802,0.813,0.802,0.839,0.750,0.801,(4.7159)+(0.0367)Ser+(-0.1089)Asn+(-0.0023)Val+(0.0225)Orn+(0.0010)Lys+(-0.1318)Trp;0.818,0.848,0.789,0.759,0.817,0.830,0.781,0.797,(7.9793)+(-0.0828)His+(-0.0803)Cit+(0.0048)Arg+(0.0524)Orn+(0.0198)Leu+(-0.1273)Trp;0.818,0.846,0.789,0.755,0.786,0.838,0.849,0.807,(4.4289)+(-0.1201)His+(-0.0049)Ala+(-0.1973)Met+(0.0156)Orn+(0.0511)Ile+(0.0876)Phe;0.818,0.849,0.823,0.837,0.811,0.856,0.788,0.823,(4.0287)+(0.0343)Ser+(-0.1074)Asn+(0.0041)Gln+(-0.0022)Ala+(0.0020)Val+(-0.1357)Trp;0.818,0.848,0.796,0.805,0.807,0.840,0.717,0.792,(4.0282)+(0.0354)Ser+(-0.0157)Arg+(-0.1490)Met+(0.0241)Orn+(0.0049)Lys+(-0.1364)Trp;0.818,0.845,0.786,0.772,0.800,0.818,0.771,0.790,(7.3793)+(0.0026)Gly+(-0.1039)His+(0.0046)Val+(0.0296)Orn+(0.0062)Lys+(-0.1089)Trp;0.818,0.851,0.797,0.796,0.781,0.823,0.815,0.804,(6.1550)+(-0.0345)Asn+(0.0020)Gly+(-0.0151)Arg+(0.1475)Ile+(-0.0668)Leu+(-0.1302)Trp;0.818,0.849,0.786,0.772,0.800,0.822,0.768,0.791,(7.5519)+(0.0021)Gly+(-0.0944)His+(0.0061)Pro+(0.0008)Tyr+(0.0317)Orn+(-0.1021)Trp;0.818,0.847,0.792,0.781,0.806,0.825,0.770,0.795,(7.8555)+(-0.0136)Asn+(0.0028)Gly+(-0.0958)His+(0.0051)Val+(0.0331)Orn+(-0.1028)Trp;0.818,0.848,0.787,0.767,0.759,0.854,0.854,0.808,(6.6317)+(-0.0559)His+(-0.0278)Cit+(-0.0398)Val+(-0.1907)Met+(0.1747)Ile+(-0.0087)Leu;0.818,0.847,0.784,0.768,0.758,0.852,0.830,0.802,(5.8075)+(0.0047)Gly+(-0.0874)His+(-0.0054)Ala+(-0.1413)Met+(0.1428)Ile+(-0.0486)Leu;0.818,0.848,0.795,0.795,0.774,0.814,0.826,0.802,(4.1338)+(0.0028)Gln+(-0.0045)Pro+(-0.0034)Lys+(0.1460)Ile+(-0.0646)Leu+(-0.1480)Trp;0.818,0.845,0.829,0.832,0.852,0.858,0.754,0.824,(7

.7238)+(0.0277)Thr+(-0.0022)Ala+(-0.0649)Cit+(0.0252)Tyr+(-0.1690)Met+(-0.1456)Trp;0.818,0.844,0.820,0.819,0.842,0.851,0.756,0.817,(5.5481)+(0.0009)Gly+(0.0051)Gln+(-0.1044)Cit+(-0.0977)Met+(0.0500)Orn+(-0.1479)Trp;0.818,0.841,0.764,0.746,0.715,0.842,0.860,0.791,(5.4308)+(0.0019)Gly+(-0.0883)His+(-0.0066)Ala+(-0.0347)Val+(-0.0010)Lys+(0.1427)Ile;0.818,0.853,0.851,0.863,0.836,0.828,0.865,0.848,(3.1849)+(-0.0865)Asn+(0.0060)Gln+(-0.0052)Ala+(0.0017)Leu+(0.0830)Phe+(-0.1548)Trp;0.818,0.850,0.775,0.768,0.775,0.861,0.732,0.784,(3.2709)+(0.0285)Ser+(0.0061)Gln+(-0.1358)His+(0.0115)Thr+(-0.1725)Met+(0.0217)Orn;0.818,0.847,0.792,0.778,0.799,0.823,0.788,0.797,(6.1468)+(-0.0509)Asn+(0.0054)Gly+(-0.0882)Cit+(0.0062)Arg+(0.0644)Ile+(-0.1631)Trp;0.818,0.844,0.758,0.747,0.730,0.803,0.811,0.773,(1.8877)+(0.0013)Gly+(0.0079)Gln+(-0.1632)His+(-0.0482)Tyr+(0.0360)Ile+(0.0785)Phe;0.818,0.842,0.755,0.742,0.698,0.858,0.833,0.783,(2.3264)+(0.0419)Ser+(-0.1916)Asn+(0.0015)Gln+(-0.0544)Val+(0.1785)Ile+(-0.0068)Leu;0.818,0.851,0.811,0.802,0.823,0.833,0.790,0.812,(8.0566)+(-0.0897)Asn+(0.0261)Thr+(-0.0631)Cit+(-0.0257)Val+(0.0555)Leu+(-0.1522)Trp;0.818,0.851,0.815,0.824,0.820,0.805,0.788,0.809,(4.1211)+(0.0208)Thr+(-0.0061)Ala+(-0.0264)Arg+(-0.0057)Val+(0.1004)Phe+(-0.1662)Trp;0.818,0.842,0.804,0.790,0.822,0.843,0.772,0.807,(8.4919)+(-0.0692)His+(-0.0029)Ala+(-0.0812)Cit+(0.0593)Orn+(0.0043)Lys+(-0.1102)Trp;0.818,0.854,0.805,0.817,0.801,0.768,0.805,0.798,(2.6374)+(0.0017)Gln+(0.0030)Pro+(-0.0089)Val+(0.0071)Orn+(0.0761)Phe+(-0.1675)Trp;0.818,0.853,0.809,0.813,0.817,0.778,0.802,0.803,(3.7432)+(-0.0017)Gly+(0.0126)Thr+(-0.0069)Val+(-0.0071)Lys+(0.0839)Phe+(-0.1671)Trp;0.818,0.850,0.797,0.806,0.798,0.833,0.741,0.795,(4.6786)+(0.0358)Ser+(-0.1112)Asn+(0.0046)Thr+(0.0192)Orn+(-0.0008)Lys+(-0.1363)Trp;0.818,0.848,0.797,0.797,0.792,0.838,0.776,0.801,(4.0425)+(0.0397)Ser+(-0.1042)Asn+(-0.0040)Ala+(0.0184)Orn+(0.0157)Leu+(-0.1394)Trp

;0.818,0.848,0.791,0.799,0.793,0.825,0.741,0.790,(4.5625)+(0.0412)Ser+(-0.1035)Asn+(-0.0140)Arg+(0.0083)Pro+(0.0045)Lys+(-0.1373)Trp;0.818,0.847,0.783,0.783,0.764,0.803,0.808,0.789,(5.1953)+(-0.0219)Tyr+(0.0081)Orn+(-0.0005)Lys+(0.1406)Ile+(-0.0641)Leu+(-0.1366)Trp;0.818,0.847,0.802,0.791,0.810,0.831,0.796,0.807,(8.2580)+(-0.0061)Asn+(-0.0916)His+(-0.0021)Ala+(0.0055)Val+(0.0353)Orn+(-0.1028)Trp;0.818,0.846,0.805,0.817,0.807,0.853,0.733,0.803,(5.6117)+(0.0348)Ser+(-0.0942)Asn+(0.0131)Thr+(-0.0019)Ala+(-0.0128)Arg+(-0.1336)Trp;0.818,0.845,0.797,0.784,0.809,0.823,0.791,0.802,(8.0107)+(-0.0215)Asn+(-0.0944)His+(0.0027)Val+(0.0319)Orn+(0.0079)Lys+(-0.1075)Trp;0.818,0.843,0.726,0.694,0.706,0.836,0.776,0.753,(3.0380)+(0.0411)Ser+(-0.1063)His+(-0.0219)Arg+(-0.0315)Val+(-0.0050)Lys+(0.1348)Ile;0.818,0.847,0.805,0.806,0.815,0.849,0.751,0.805,(9.0503)+(-0.0794)His+(0.0262)Thr+(-0.0015)Ala+(-0.0368)Cit+(-0.0065)Arg+(-0.1094)Trp;0.818,0.847,0.783,0.763,0.753,0.847,0.855,0.804,(6.4021)+(-0.0611)His+(0.0030)Pro+(-0.0418)Val+(-0.2086)Met+(0.1679)Ile+(-0.0036)Leu;0.818,0.851,0.788,0.763,0.760,0.855,0.864,0.810,(6.1701)+(-0.0628)His+(0.0018)Arg+(0.0173)Tyr+(-0.0441)Val+(-0.2330)Met+(0.1707)Ile;0.818,

0.855,0.812,0.829,0.803,0.775,0.810,0.804,(4.8305)+(-0.0655)Asn+(0.0073)Pro+(-0.0295)Tyr+(-0.0087)Val+(0.1030)Phe+(-0.1357)Trp;0.818,0.844,0.702,0.650,0.707,0.803,0.757,0.729,(0.3490)+(0.0471)Ser+(-0.0012)Gly+(-0.1632)His+(-0.0406)Cit+(0.0394)Ile+(0.0687)Phe;0.818,0.854,0.806,0.797,0.786,0.819,0.865,0.817,(3.6803)+(0.0012)Gly+(-0.0090)Ala+(-0.0087)Lys+(0.0618)Ile+(0.0635)Phe+(-0.1645)Trp;0.818,0.854,0.818,0.826,0.811,0.811,0.814,0.815,(3.7279)+(0.0148)Thr+(-0.0063)Ala+(-0.0042)Val+(-0.0066)Lys+(0.0922)Phe+(-0.1623)Trp;0.818,0.850,0.737,0.700,0.737,0.842,0.757,0.759,(1.1555)+(0.0430)Ser+(-0.1465)His+(-0.0066)Ala+(-0.0695)Cit+(0.0362)Orn+(0.0947)Phe;0.818,0.847,0.806,0.789,0.786,0.86

0,0.850,0.821,(3.3522)+(0.0118)Gln+(-0.1348)His+(-0.0039)Ala+(-0.0106)Arg+(-0.1609)Met+(0.0697)Ile;0.818,0.845,0.801,0.805,0.778,0.818,0.828,0.807,(2.4286)+(-0.0712)Asn+(0.0116)Gln+(-0.1504)His+(-0.0395)Tyr+(0.0004)Leu+(0.1004)Phe;0.818,0.841,0.801,0.790,0.831,0.831,0.747,0.800,(7.0693)+(-0.1151)Cit+(0.0058)Pro+(-0.0002)Val+(0.0556)Orn+(-0.0053)Lys+(-0.1561)Trp;0.818,0.856,0.832,0.843,0.838,0.806,0.808,0.824,(5.0962)+(-0.0685)Asn+(-0.0124)Arg+(-0.0102)Val+(0.0243)Orn+(0.0879)Phe+(-0.1369)Trp;0.818,0.855,0.842,0.853,0.841,0.807,0.841,0.835,(3.2112)+(-0.1005)Asn+(0.0057)Gln+(0.0075)Orn+(-0.0046)Leu+(0.0747)Phe+(-0.1561)Trp;0.818,0.855,0.838,0.850,0.841,0.794,0.830,0.829,(1.5571)+(0.0061)Gln+(-0.2478)Met+(0.0018)Lys+(0.0008)Leu+(0.1108)Phe+(-0.1504)Trp;0.818,0.855,0.837,0.849,0.840,0.796,0.828,0.828,(1.5965)+(0.0059)Gln+(-0.2475)Met+(0.0034)Orn+(0.0016)Lys+(0.1096)Phe+(-0.1494)Trp;0.818,0.852,0.790,0.778,0.798,0.807,0.792,0.794,(5.1198)+(0.0250)Thr+(0.0095)Tyr+(-0.2545)Met+(-0.0033)Orn+(0.0665)Ile+(-0.1556)Trp;0.818,0.851,0.798,0.789,0.805,0.783,0.821,0.799,(4.3517)+(-0.0948)Asn+(0.0155)Thr+(-0.0028)Pro+(0.0383)Ile+(0.0562)Phe+(-0.1729)Trp;0.818,0.851,0.791,0.806,0.793,0.758,0.769,0.782,(4.6865)+(-0.0981)Asn+(0.0225)Thr+(0.0030)Pro+(-0.0447)Tyr+(0.0954)Phe+(-0.1530)Trp;0.818,0.848,0.786,0.781,0.771,0.805,0.818,0.794,(4.8439)+(0.0013)Thr+(0.0034)Orn+(-0.0025)Lys+(0.1371)Ile+(-0.0628)Leu+(-0.1456)Trp;0.818,0.845,0.741,0.714,0.738,0.833,0.751,0.759,(1.2344)+(0.0490)Ser+(-0.1488)His+(-0.0045)Ala+(-0.0244)Cit+(-0.0168)Arg+(0.1088)Phe;0.818,0.844,0.800,0.782,0.827,0.835,0.768,0.803,(8.5569)+(-0.0124)Asn+(-0.0707)His+(-0.0804)Cit+(0.0045)Val+(0.0563)Orn+(-0.1171)Trp;0.818,0.844,0.729,0.710,0.722,0.798,0.744,0.743,(1.1957)+(0.0497)Ser+(-0.0032)Gly+(-0.1459)His+(-0.0296)Cit+(-0.0475)Tyr+(0.1191)Phe;0.818,0.842,0.793,0.784,0.751,0.857,0.855,0.812,(4.4540)+(-0.0820)Asn+(0.0103)Gln+(-0.0987)His+(-0.0187)Arg+(-0.03

57)Val+(0.1315)Ile;0.818,0.842,0.800,0.788,0.822,0.838,0.756,0.801,(6.5762)+(0.0033)Gly+(-0.0064)Ala+(-0.1211)Cit+(0.0567)Orn+(0.0173)Leu+(-0.1602)Trp;0.818,0.852,0.810,0.822,0.804,0.764,0.819,0.803,(2.6953)+(-0.0010)Gly+(0.0023)Gln+(0.0034)Pro+(-0.0082)Val+(0.0777)Phe+(-0.1688)Trp;0.818,0.850,0.837,0.847,0.843,0.798,0.825,0.828,(4.4552)+(-0.0212)Asn+(-0.0010)Arg+(-0.0058)Val+(-0.1723)Met+(0.1195)Phe+(-0.1330)Trp;0.818,0.846,0.794,0.782,0.751,0.863,0.866,0.815,(3.0186)+(0.0039)Gln+(0.0022)Pro+(0.0173)Tyr+(-0.0560)Val+(-0.3430)Met+(0.1899)Ile;0.818,0.853,0.767,0.765,0.762,0.762,0.787,0.769,(3.4317)+(0.0156)Thr+(-0.0454)Tyr+(-0.0139)Lys+(0.0482)Ile+(0.0779)Phe+(-0.1719)Trp;0.818,0.852,0.806,0.809,0.820,0.847,0.739,0.804,(3.7373)+(0.0387)Ser+(-0.0142)Arg+(0.0284)Tyr+(-0.1811)Met+(0.0223)Orn+(-0.1405)Trp;0.818,0.849,0.790,0.773,0.804,0.819,0.783,0.795,(7.8266)+(-0.0947)His+(0.0055)Pro+(-0.0024)Tyr+(0.0032)Val+(0.0314)Orn+(-0.1058)Trp;0.818,0.844,0.788,0.779,0.803,0.819,0.755,0.789,(8.3209)+(-0.1026)His+(0.0230)Thr+(-0.0147)Arg+(0.0059)Val+(0.0059)Lys+(-0.1168)Trp;0.818,0.845,0.810,0.805,0.831,0.846,0.752,0.808,(7.1910)+(0.0103)Thr+(-0.0053)Ala+(-0.1146)Cit+(-0.0023)Tyr+(0.0560)Orn+(-0.1513)Trp;0.818,0.844,0.806,0.801,0.836,0.838,0.735,0.803,(7.5880)+(-0.0610)Asn+(0.0035)Gly+(-0.1137)Cit+(0.0035)Arg+(0.0578)Orn+(-0.1436)Trp;0.818,0.842,0.807,0.801,0.838,0.839,0.734,0.803,(7.6093)+(-0.0588)Asn+(0.0035)Gly+(-0.1122)Cit+(0.0029)Tyr+(0.0578)Orn+(-0.1445)Trp;0.818,0.856,0.844,0.855,0.844,0.807,0.845,0.838,(3.1359)+(-0.0982)Asn+(0.0060)Gln+(-0.0001)Lys+(-0.0033)Leu+(0.0777)Phe+(-0.1580)Trp;0.818,0.855,0.801,0.811,0.820,0.782,0.749,0.790,(3.8947)+(0.0159)Thr+(-0.0294)Arg+(-0.0101)Val+(0.0141)Orn+(0.0883)Phe+(-0.1667)Trp;0.818,0.854,0.825,0.829,0.823,0.803,0.831,0.822,(3.9543)+(-0.0052)Ala+(0.0109)Pro+(-0.1980)Met+(0.0018)Leu+(0.1089)Phe+(-0.1407)Trp;0.818,0.844,0.792,0.789,0.774,0.826,0.814,0.801,(2.3133)+(-0.0

921)Asn+(0.0035)Gly+(0.0108)Gln+(-0.1516)His+(-0.0064)Val+(0.0955)Phe;0.818,0.839,0.715,0.674,0.717,0.796,0.761,0.737,(0.7824)+(0.0483)Ser+(-0.0029)Gly+(-0.1665)His+(-0.0020)Thr+(0.0017)Pro+(0.0878)Phe;0.818,0.855,0.822,0.831,0.813,0.812,0.824,0.820,(2.8882)+(0.0028)Gln+(0.0127)Thr+(-0.0071)Ala+(-0.0088)Lys+(0.0864)Phe+(-0.1690)Trp;0.818,0.855,0.844,0.856,0.840,0.813,0.847,0.839,(1.7432)+(0.0062)Gln+(-0.0027)Ala+(-0.2248)Met+(0.0037)Leu+(0.1107)Phe+(-0.1486)Trp;0.818,0.850,0.800,0.815,0.807,0.837,0.723,0.795,(3.6480)+(0.0285)Ser+(0.0024)Gln+(0.0131)Thr+(0.0035)Val+(-0.1911)Met+(-0.1474)Trp;0.818,0.846,0.782,0.767,0.745,0.855,0.849,0.804,(5.4344)+(-0.0516)Asn+(-0.0072)Arg+(-0.0585)Val+(-0.2254)Met+(0.0345)Orn+(0.1880)Ile;0.818,0.846,0.728,0.686,0.731,0.831,0.755,0.751,(3.0050)+(0.0495)Ser+(-0.0604)Asn+(-0.1349)His+(-0.0138)Arg+(0.0002)Pro+(0.0597)Ile;0.818,0.847,0.822,0.831,0.831,0.795,0.800,0.814,(3.8232)+(-0.0259)Asn+(0.0021)Gly+(-0.1890)Met+(0.0121)Orn+(0.1054)Phe+(-0.1391)Trp;0.818,0.842,0.730,0.689,0.737,0.830,0.754,0.752,(3.1127)+(0.0496)Ser+(-0.0642)Asn+(-0.1282)His+(-0.0325)Cit+(-0.0077)Arg+(0.0607)Ile;0.818,0.838,0.731,0.689,0.730,0.828,0.772,0.755,(1.1944)+(0.0364)Ser+(0.0057)Gln+(-0.1557)His+(-0.0049)Thr+(-0.0462)Cit+(0.0561)Ile;0.818,0.847,0.754,0.728,0.716,0.819,0.858,0.780,(4.1525)+(-0.1090)His+(-0.0033)Pro+(-0.0365)Val+(-0.0060)Lys+(0.1239)Ile+(0.0683)Phe;0.818,0.846,0.790,0.785,0.772,0.811,0.823,0.798,(4.9931)+(-0.0007)Gly+(0.0026)Thr+(-0.0042)Pro+(0.1446)Ile+(-0.0650)Leu+(-0.1472)Trp;0.818,0.842,0.814,0.806,0.841,0.837,0.761,0.811,(8.0493)+(-0.0514)Asn+(-0.1071)Cit+(-0.0010)Val+(0.0591)Orn+(0.0001)Lys+(-0.1422)Trp;0.818,0.850,0.836,0.845,0.828,0.862,0.812,0.837,(6.0748)+(0.0115)Gln+(-0.0943)His+(-0.0297)Cit+(-0.0060)Arg+(-0.0384)Met+(-0.0975)Trp;0.818,0.848,0.827,0.825,0.840,0.810,0.820,0.824,(5.6154)+(-0.0548)Asn+(-0.0862)Cit+(0.0067)Arg+(-0.0011)Lys+(0.0954)Phe+(-0.1596)Trp;0.818,0

.844,0.727,0.692,0.723,0.836,0.752,0.751,(2.6818)+(0.0430)Ser+(-0.118
2)His+(-0.0310)Cit+(-0.0186)Arg+(0.1206)Ile+(-0.0439)Leu;0.818,0.844,
0.778,0.763,0.739,0.850,0.843,0.799,(4.1993)+(0.0007)Gly+(-0.0523)Val
+(-0.2880)Met+(0.0240)Orn+(0.2008)Ile+(-0.0155)Leu;0.818,0.841,0.800,
0.782,0.832,0.827,0.759,0.800,(7.0291)+(-0.1209)Cit+(0.0040)Arg+(0.05
66)Orn+(-0.0095)Lys+(0.0147)Leu+(-0.1626)Trp;0.818,0.841,0.749,0.732,
0.684,0.861,0.852,0.782,(1.7628)+(0.0291)Ser+(-0.0024)Gln+(-0.0121)Al
a+(-0.0734)Cit+(-0.0479)Val+(0.1801)Ile;0.818,0.840,0.785,0.767,0.739
,0.858,0.874,0.810,(6.7945)+(-0.0443)Asn+(-0.0590)His+(-0.0068)Ala+(-
0.0413)Cit+(-0.0397)Val+(0.1588)Ile;0.818,0.850,0.818,0.831,0.806,0.8
00,0.824,0.815,(2.7494)+(0.0022)Gln+(0.0095)Thr+(-0.0066)Ala+(-0.0050
)Val+(0.0869)Phe+(-0.1676)Trp;0.818,0.846,0.782,0.784,0.762,0.802,0.8
05,0.788,(5.2430)+(0.0045)Thr+(-0.0220)Tyr+(-0.0013)Lys+(0.1400)Ile+(
-0.0622)Leu+(-0.1394)Trp;0.818,0.846,0.799,0.804,0.778,0.821,0.810,0.
804,(4.1919)+(0.0049)Gln+(-0.0311)Arg+(0.0045)Lys+(0.1588)Ile+(-0.076
9)Leu+(-0.1470)Trp;0.818,0.855,0.805,0.815,0.806,0.772,0.801,0.799,(3
.4359)+(0.0036)Pro+(-0.0084)Val+(0.0117)Orn+(-0.0043)Lys+(0.0786)Phe+
(-0.1596)Trp;0.818,0.852,0.799,0.808,0.785,0.769,0.824,0.797,(3.5915)
+(0.0004)Gly+(-0.0297)Tyr+(-0.0247)Val+(0.0401)Leu+(0.0949)Phe+(-0.16
28)Trp;0.818,0.851,0.808,0.787,0.820,0.820,0.829,0.814,(6.3902)+(-0.0
727)Cit+(0.0093)Arg+(0.0036)Pro+(-0.1317)Met+(0.0662)Ile+(-0.1543)Trp
;0.818,0.850,0.746,0.725,0.759,0.846,0.702,0.758,(3.9393)+(0.0387)Ser
+(-0.1228)His+(0.0111)Thr+(0.0106)Pro+(-0.1999)Met+(0.0221)Orn;0.818,
0.850,0.801,0.813,0.800,0.840,0.743,0.799,(4.9014)+(0.0350)Ser+(-0.11
31)Asn+(0.0050)Thr+(-0.0025)Val+(0.0210)Orn+(-0.1331)Trp;0.818,0.846,
0.786,0.767,0.797,0.823,0.788,0.794,(5.7990)+(0.0046)Gly+(-0.0945)Cit
+(0.0071)Arg+(-0.0096)Lys+(0.0720)Ile+(-0.1671)Trp;0.818,0.846,0.799,
0.790,0.743,0.868,0.889,0.822,(5.4740)+(-0.0290)Asn+(-0.0052)Ala+(-0.

0001)Arg+(-0.0533)Val+(-0.2069)Met+(0.1950)Ile;0.818,0.849,0.785,0.76
0,0.758,0.852,0.860,0.808,(6.2252)+(-0.0618)His+(0.0025)Pro+(0.0157)T
yr+(-0.0443)Val+(-0.2332)Met+(0.1683)Ile;0.818,0.850,0.809,0.800,0.81
5,0.787,0.838,0.810,(3.5484)+(-0.2350)Met+(-0.0021)Orn+(0.0000)Lys+(0
.0535)Ile+(0.0880)Phe+(-0.1529)Trp;0.818,0.845,0.809,0.807,0.817,0.84
8,0.768,0.810,(5.2924)+(0.0349)Ser+(-0.0055)Gly+(0.0083)Thr+(-0.0028)
Ala+(-0.0671)Cit+(-0.1499)Trp;0.818,0.843,0.800,0.793,0.835,0.834,0.7
23,0.796,(7.2599)+(0.0116)Thr+(-0.1122)Cit+(-0.0052)Arg+(0.0546)Orn+(
-0.0070)Lys+(-0.1573)Trp;0.818,0.841,0.714,0.669,0.718,0.800,0.762,0.
737,(0.7878)+(0.0463)Ser+(-0.0031)Gly+(-0.1693)His+(0.0007)Pro+(0.009
9)Orn+(0.0843)Phe;0.818,0.841,0.724,0.689,0.731,0.815,0.737,0.743,(1.
3435)+(0.0487)Ser+(-0.1519)His+(-0.0365)Cit+(0.0010)Val+(-0.0134)Lys+
(0.1061)Phe;0.818,0.857,0.848,0.861,0.851,0.809,0.835,0.839,(3.1373)+
(-0.0843)Asn+(0.0067)Gln+(-0.0151)Arg+(-0.0029)Leu+(0.0825)Phe+(-0.15
87)Trp;0.818,0.851,0.792,0.791,0.781,0.835,0.784,0.798,(4.6519)+(0.04
37)Ser+(-0.1147)Asn+(-0.0061)Arg+(-0.0284)Val+(0.0607)Leu+(-0.1298)Tr
p;0.818,0.847,0.799,0.798,0.815,0.788,0.777,0.795,(2.7654)+(0.0026)Gl
y+(0.0038)Gln+(-0.1029)Cit+(0.0046)Pro+(0.0848)Phe+(-0.1839)Trp;0.818
,0.842,0.718,0.672,0.724,0.829,0.749,0.743,(2.8783)+(0.0439)Ser+(-0.1
336)His+(0.0031)Thr+(-0.0431)Cit+(-0.0138)Lys+(0.0672)Ile;0.818,0.841
,0.769,0.752,0.721,0.840,0.867,0.795,(5.6321)+(-0.0842)His+(-0.0067)A
la+(-0.0319)Val+(0.0001)Lys+(0.1521)Ile+(-0.0125)Leu;0.818,0.840,0.81
0,0.805,0.833,0.849,0.746,0.808,(7.2560)+(0.0025)Gly+(-0.0039)Ala+(-0
.1106)Cit+(-0.0439)Met+(0.0606)Orn+(-0.1383)Trp;0.818,0.852,0.786,0.7
76,0.793,0.808,0.785,0.790,(5.2888)+(0.0256)Thr+(-0.2373)Met+(-0.0010
)Orn+(-0.0024)Lys+(0.0675)Ile+(-0.1517)Trp;0.818,0.849,0.831,0.830,0.
833,0.823,0.837,0.831,(5.6676
)+(-0.0392)Asn+(-0.0054)Ala+(-0.0827)Cit+(0.0089)Leu+(0.0998)Phe+(-0.

1588)Trp;0.818,0.849,0.797,0.807,0.797,0.834,0.742,0.795,(4.7173)+(0.0355)Ser+(-0.1113)Asn+(0.0047)Thr+(-0.0030)Tyr+(0.0193)Orn+(-0.1360)Trp;0.818,0.849,0.790,0.780,0.794,0.781,0.815,0.792,(4.2536)+(-0.0924)Cit+(0.0014)Arg+(-0.0315)Tyr+(0.0520)Ile+(0.0828)Phe+(-0.1774)Trp;0.818,0.849,0.791,0.789,0.774,0.829,0.807,0.800,(3.9872)+(0.0408)Ser+(-0.0078)Gly+(-0.0063)Ala+(0.0119)Pro+(-0.0047)Lys+(-0.1413)Trp;0.818,0.845,0.786,0.768,0.799,0.819,0.779,0.792,(5.8680)+(0.0046)Gly+(-0.0902)Cit+(0.0015)Pro+(-0.0076)Lys+(0.0692)Ile+(-0.1668)Trp;0.818,0.843,0.767,0.749,0.732,0.845,0.834,0.790,(5.2985)+(0.0022)Gly+(-0.1103)His+(0.0074)Thr+(-0.0074)Ala+(0.1205)Ile+(-0.0436)Leu;0.818,0.850,0.811,0.824,0.806,0.842,0.762,0.808,(3.8830)+(0.0346)Ser+(-0.1205)Asn+(0.0033)Gln+(-0.0020)Tyr+(0.0184)Orn+(-0.1366)Trp;0.818,0.848,0.794,0.784,0.827,0.789,0.757,0.790,(4.4643)+(0.0164)Thr+(-0.0911)Cit+(-0.0125)Arg+(0.0034)Pro+(0.0874)Phe+(-0.1866)Trp;0.818,0.851,0.751,0.723,0.730,0.810,0.826,0.772,(3.5856)+(-0.1286)His+(-0.0061)Pro+(0.0162)Orn+(0.1112)Ile+(-0.0579)Leu+(0.0697)Phe;0.818,0.848,0.790,0.812,0.783,0.755,0.769,0.780,(2.6633)+(0.0019)Gln+(0.0116)Thr+(-0.0438)Tyr+(-0.0075)Val+(0.1017)Phe+(-0.1627)Trp;0.818,0.855,0.826,0.830,0.825,0.804,0.833,0.823,(3.9630)+(-0.0052)Ala+(0.0110)Pro+(0.0029)Tyr+(-0.2015)Met+(0.1098)Phe+(-0.1403)Trp;0.818,0.848,0.762,0.736,0.766,0.813,0.789,0.776,(3.2056)+(0.0077)Gly+(-0.1324)His+(-0.0097)Tyr+(-0.2386)Met+(0.0527)Ile+(0.1100)Phe;0.818,0.848,0.788,0.783,0.772,0.803,0.821,0.795,(5.0053)+(-0.0008)Gly+(0.0026)Thr+(-0.0024)Lys+(0.1372)Ile+(-0.0624)Leu+(-0.1463)Trp;0.818,0.846,0.788,0.774,0.816,0.838,0.734,0.790,(7.7574)+(0.0041)Gly+(-0.0772)His+(-0.0813)Cit+(0.0561)Orn+(0.0037)Lys+(-0.1130)Trp;0.818,0.839,0.746,0.740,0.674,0.847,0.839,0.775,(1.1944)+(0.0299)Ser+(-0.0116)Ala+(-0.0331)Arg+(0.0075)Pro+(-0.0547)Val+(0.1809)Ile;0.818,0.841,0.727,0.694,0.715,0.823,0.772,0.751,(1.7658)+(0.0342)Ser+(0.0

044)Gln+(-0.1553)His+(-0.0026)Thr+(-0.0227)Tyr+(0.0577)Ile;0.818,0.852,0.802,0.813,0.803,0.766,0.800,0.795,(3.3559)+(-0.0006)Gly+(0.0035)Pro+(-0.0092)Val+(0.0103)Orn+(0.0759)Phe+(-0.1628)Trp;0.817,0.852,0.797,0.789,0.801,0.853,0.768,0.803,(6.3420)+(0.0448)Ser+(-0.0044)Gly+(-0.0788)His+(-0.0276)Cit+(-0.0039)Arg+(-0.0985)Trp;0.817,0.851,0.795,0.789,0.810,0.829,0.754,0.796,(2.7098)+(0.0447)Ser+(-0.0094)Arg+(0.0326)Tyr+(-0.2230)Met+(0.0225)Leu+(-0.1521)Trp;0.817,0.848,0.826,0.825,0.840,0.806,0.818,0.822,(5.6585)+(-0.0491)Asn+(-0.0824)Cit+(-0.0005)Lys+(0.0033)Leu+(0.0926)Phe+(-0.1620)Trp;0.817,0.845,0.811,0.807,0.789,0.838,0.850,0.821,(2.7068)+(-0.0794)Asn+(0.0114)Gln+(-0.1477)His+(-0.0032)Ala+(-0.0048)Val+(0.0928)Phe;0.817,0.841,0.793,0.786,0.733,0.865,0.886,0.818,(6.2234)+(-0.0792)Asn+(-0.0079)Ala+(-0.0554)Cit+(-0.0119)Tyr+(-0.0504)Val+(0.1820)Ile;0.817,0.854,0.839,0.848,0.831,0.824,0.840,0.836,(4.9839)+(-0.0720)Asn+(-0.0040)Ala+(-0.0081)Val+(0.0213)Orn+(0.0886)Phe+(-0.1346)Trp;0.817,0.849,0.827,0.825,0.846,0.798,0.814,0.821,(4.6298)+(-0.0738)Cit+(-0.1726)Met+(0.0043)Lys+(0.0048)Leu+(0.1163)Phe+(-0.1566)Trp;0.817,0.847,0.788,0.783,0.742,0.855,0.850,0.807,(4.8905)+(-0.0578)Asn+(0.0032)Gly+(-0.0589)Val+(-0.2632)Met+(0.0108)Lys+(0.1940)Ile;0.817,0.840,0.804,0.799,0.828,0.840,0.745,0.803,(6.9360)+(0.0026)Gly+(-0.0055)Ala+(-0.1187)Cit+(0.0037)Val+(0.0588)Orn+(-0.1509)Trp;0.817,0.853,0.818,0.809,0.817,0.841,0.830,0.824,(0.8531)+(0.0141)Gln+(-0.1498)His+(-0.0360)Cit+(-0.0064)Arg+(-0.2247)Met+(0.1285)Phe;0.817,0.853,0.840,0.854,0.846,0.792,0.825,0.829,(1.6227)+(0.0068)Gln+(-0.0130)Arg+(-0.2381)Met+(0.0046)Lys+(0.1121)Phe+(-0.1512)Trp;0.817,0.853,0.811,0.813,0.825,0.781,0.799,0.805,(4.6713)+(-0.1026)Asn+(0.0001)Gly+(0.0174)Thr+(0.0011)Pro+(0.0746)Phe+(-0.1635)Trp;0.817,0.849,0.751,0.738,0.699,0.856,0.816,0.777,(3.0504)+(0.0406)Ser+(-0.1905)Asn+(-0.0206)Tyr+(-0.0568)Val+(0.0293)Orn+(0.1728)Ile;0.817,0.845,0.777,

0.796,0.774,0.810,0.709,0.772,(-1.3707)+(0.0470)Ser+(-0.1276)Asn+(0.0212)Thr+(-0.0176)Val+(-0.3136)Met+(0.1461)Phe;0.817,0.845,0.802,0.795,0.831,0.828,0.745,0.800,(5.5302)+(0.0030)Gln+(0.0028)Thr+(-0.1162)Cit+(0.0046)Pro+(0.0462)Orn+(-0.1710)Trp;0.817,0.842,0.726,0.696,0.704,0.838,0.771,0.752,(2.9228)+(0.0402)Ser+(-0.1066)His+(-0.0253)Arg+(-0.0290)Val+(0.1426)Ile+(-0.0123)Leu;0.817,0.841,0.745,0.730,0.690,0.854,0.823,0.774,(2.7428)+(0.0417)Ser+(-0.1944)Asn+(0.0060)Thr+(-0.0568)Val+(0.1788)Ile+(-0.0031)Leu;0.817,0.841,0.732,0.699,0.727,0.828,0.763,0.754,(1.7599)+(0.0339)Ser+(0.0054)Gln+(-0.1476)His+(-0.0475)Cit+(-0.0236)Tyr+(0.0602)Ile;0.817,0.852,0.810,0.812,0.814,0.860,0.760,0.812,(3.6000)+(0.0360)Ser+(-0.0021)Ala+(0.0290)Tyr+(-0.1818)Met+(0.0202)Orn+(-0.1416)Trp;0.817,0.849,0.781,0.767,0.748,0.857,0.834,0.802,(4.7063)+(0.0040)Gly+(-0.0485)Cit+(0.0034)Pro+(-0.0523)Val+(-0.2708)Met+(0.1848)Ile;0.817,0.847,0.782,0.786,0.802,0.772,0.738,0.775,(4.2284)+(0.0204)Thr+(-0.0952)Cit+(-0.0422)Tyr+(0.0031)Leu+(0.1067)Phe+(-0.1791)Trp;0.817,0.846,0.791,0.786,0.825,0.789,0.737,0.784,(4.2003)+(0.0018)Gly+(0.0164)Thr+(-0.0923)Cit+(-0.0120)Arg+(0.0919)Phe+(-0.1855)Trp;0.817,0.842,0.722,0.689,0.731,0.808,0.731,0.740,(1.0602)+(0.0512)Ser+(-0.1572)His+(-0.0197)Arg+(0.0035)Pro+(-0.0090)Lys+(0.1053)Phe;0.817,0.855,0.809,0.822,0.823,0.781,0.765,0.798,(2.9223)+(0.0031)Gln+(0.0153)Thr+(-0.0304)Arg+(-0.0086)Val+(0.0916)Phe+(-0.1746)Trp;0.817,0.849,0.787,0.764,0.778,0.848,0.823,0.803,(2.8344)+(0.0028)Gly+(0.0104)Gln+(-0.1424)His+(0.0070)Tyr+(-0.2094)Met+(0.0666)Ile;0.817,0.849,0.821,0.820,0.827,0.850,0.790,0.822,(4.3692)+(0.0484)Ser+(-0.0067)Gly+(-0.0095)Arg+(0.0310)Tyr+(-0.1679)Met+(-0.1400)Trp;0.817,0.845,0.807,0.798,0.833,0.836,0.755,0.805,(7.1663)+(-0.1040)Cit+(0.0013)Arg+(0.0078)Pro+(-0.0908)Met+(0.0520)Orn+(-0.1463)Trp;0.817,0.843,0.717,0.694,0.704,0.797,0.747,0.735,(0.9416)+(0.0438)Ser+(-0.1543)His+(-0.0412)Tyr+(-0.01

09)Val+(0.0215)Leu+(0.1089)Phe;0.817,0.847,0.763,0.749,0.752,0.784,0.805,0.773,(2.4877)+(0.0403)Ser+(-0.0083)Gly+(-0.0280)Tyr+(0.0011)Orn+(0.0554)Ile+(-0.1651)Trp;0.817,0.855,0.805,0.805,0.797,0.778,0.840,0.805,(3.5424)+(0.0010)Gly+(-0.0269)Val+(-0.0057)Lys+(0.0454)Leu+(0.0832)Phe+(-0.1690)Trp;0.817,0.850,0.788,0.788,0.790,0.834,0.755,0.792,(2.9251)+(0.0390)Ser+(-0.0024)Ala+(-0.1755)Met+(0.0163)Orn+(0.0222)Leu+(-0.1441)Trp;0.817,0.849,0.841,0.850,0.852,0.856,0.782,0.835,(6.5209)+(-0.1032)Asn+(0.0072)Gln+(0.0191)Thr+(-0.0753)Cit+(-0.0016)Tyr+(-0.1499)Trp;0.817,0.849,0.792,0.801,0.791,0.834,0.737,0.791,(4.8380)+(0.0415)Ser+(-0.0978)Asn+(-0.0115)Arg+(0.0093)Pro+(-0.0021)Val+(-0.1302)Trp;0.817,0.849,0.776,0.797,0.770,0.746,0.757,0.768,(3.2273)+(0.0122)Thr+(0.0051)Pro+(-0.0465)Tyr+(-0.0086)Val+(0.1019)Phe+(-0.1592)Trp;0.817,0.848,0.816,0.820,0.815,0.840,0.792,0.817,(4.9463)+(0.0503)Ser+(-0.0574)Asn+(-0.0072)Gly+(0.0044)Val+(-0.0949)Met+(-0.1354)Trp;0.817,0.848,0.812,0.827,0.807,0.843,0.760,0.809,(4.2372)+(0.0323)Ser+(-0.1227)Asn+(0.0037)Gln+(0.0068)Thr+(0.0003)Tyr+(-0.1398)Trp;0.817,0.843,0.822,0.826,0.822,0.848,0.790,0.821,(5.8820)+(0.0045)Gln+(0.0099)Thr+(-0.0073)Ala+(-0.0835)Cit+(0.0129)Pro+(-0.1560)Trp;0.817,0.847,0.794,0.790,0.816,0.794,0.761,0.790,(4.1681)+(0.0044)Gly+(-0.0994)Cit+(0.0058)Pro+(-0.0062)Lys+(0.0959)Phe+(-0.1718)Trp;0.817,0.841,0.727,0.692,0.705,0.837,0.789,0.755,(2.0909)+(0.0326)Ser+(0.0031)Gln+(-0.1233)His+(-0.0439)Cit+(-0.0261)Val+(0.1146)Ile;0.817,0.853,0.843,0.864,0.823,0.816,0.850,0.838,(3.1006)+(-0.0825)Asn+(0.0063)Gln+(-0.0042)Ala+(-0.0225)Tyr+(0.0943)Phe+(-0.1476)Trp;0.817,0.849,0.820,0.825,0.824,0.823,0.800,0.818,(4.4715)+(0.0042)Gly+(-0.0054)Ala+(-0.0925)Cit+(-0.0031)Lys+(0.1098)Phe+(-0.1601)Trp;0.817,0.847,0.790,0.790,0.790,0.830,0.764,0.793,(3.0755)+(0.0405)Ser+(-0.0019)Ala+(-0.1690)Met+(-0.0007)Lys+(0.0254)Leu+(-0.1436)Trp;0.817,0.844,0.756,0.742,0.702,0.861,0.834,0.785,

(2.3940)+(0.0427)Ser+(-0.1851)Asn+(0.0017)Gln+(-0.0550)Val+(-0.0046)Lys+(0.1733)Ile;0.817,0.844,0.796,0.800,0.774,0.815,0.821,0.802,(2.4272)+(-0.0710)Asn+(0.0114)Gln+(-0.1496)His+(0.0027)Pro+(-0.0421)Tyr+(0.0986)Phe;0.817,0.842,0.792,0.782,0.824,0.825,0.726,0.789,(6.3291)+(0.0013)Gly+(0.0047)Thr+(-0.1158)Cit+(0.0049)Pro+(0.0489)Orn+(-0.1669)Trp;0.817,0.841,0.810,0.798,0.838,0.829,0.769,0.808,(7.6215)+(-0.0528)Asn+(-0.1116)Cit+(0.0038)Arg+(0.0545)Orn+(0.0090)Leu+(-0.1549)Trp;0.817,0.854,0.745,0.723,0.761,0.802,0.727,0.753,(-3.3826)+(0.0603)Ser+(-0.0665)Asn+(-0.0823)Cit+(-0.3713)Met+(0.0532)Ile+(0.1028)Phe;0.817,0.854,0.773,0.761,0.769,0.824,0.778,0.783,(0.1645)+(0.0255)Thr+(-0.0886)Cit+(-0.3935)Met+(0.1784)Ile+(-0.0944)Leu+(0.1245)Phe;0.817,0.853,0.811,0.816,0.817,0.853,0.755,0.810,(2.9389)+(0.0342)Ser+(0.0022)Gln+(0.0265)Tyr+(-0.2020)Met+(0.0165)Orn+(-0.1454)Trp;0.817,0.851,0.810,0.810,0.789,0.804,0.859,0.815,(3.5178)+(0.0013)Gly+(-0.0060)Ala+(-0.0259)Val+(0.0473)Leu+(0.0872)Phe+(-0.1660)Trp;0.817,0.848,0.811,0.813,0.821,0.788,0.799,0.805,(5.5264)+(-0.0442)Asn+(-0.0821)Cit+(0.0071)Pro+(-0.0252)Tyr+(0.1014)Phe+(-0.1555)Trp;0.817,0.848,0.815,0.808,0.796,0.823,0.869,0.824,(4.4252)+(-0.0483)Asn+(-0.0082)Ala+(0.0015)Orn+(0.0535)Ile+(0.0616)Phe+(-0.1601)Trp;0.817,0.846,0.779,0.766,0.739,0.853,0.846,0.801,(3.9970)+(0.0007)Gly+(-0.0578)Val+(-0.3060)Met+(0.0223)Orn+(0.0040)Lys+(0.1904)Ile;0.817,0.843,0.815,0.805,0.831,0.845,0.789,0.817,(5.6213)+(0.0040)Gln+(-0.0066)Ala+(-0.1185)Cit+(0.0521)Orn+(0.0159)Leu+(-0.1656)Trp;0.817,0.849,0.839,0.846,0.852,0.853,0.783,0.834,(6.3802)+(-0.1022)Asn+(0.0072)Gln+(0.0184)Thr+(-0.0776)Cit+(0.0018)Val+(-0.1539)Trp;0.817,0.846,0.793,0.785,0.739,0.868,0.872,0.816,(4.6301)+(0.0025)Gly+(-0.0056)Ala+(-0.0030)Arg+(-0.0527)Val+(-0.2400)Met+(0.1969)Ile;0.817,0.845,0.803,0.806,0.816,0.856,0.730,0.802,(5.3599)+(0.0283)Ser+(0.0087)Thr+(-0.0028)Ala+(-0.0722)Cit+(-0.0026)Lys+(-0.1471)Trp

;0.817,0.845,0.795,0.795,0.802,0.831,0.756,0.796,(8.5506)+(-0.0948)His+(0.0237)Thr+(-0.0013)Ala+(-0.0162)Arg+(0.0087)Lys+(-0.1095)Trp;0.817,0.850,0.788,0.763,0.759,0.854,0.863,0.810,(6.2226)+(-0.0617)His+(0.0168)Tyr+(-0.0431)Val+(-0.2282)Met+(0.1733)Ile+(-0.0037)Leu;0.817,0.848,0.783,0.761,0.753,0.848,0.856,0.805,(6.3833)+(-0.0619)His+(0.0009)Arg+(0.0031)Pro+(-0.0427)Val+(-0.2113)Met+(0.1653)Ile;0.817,0.847,0.786,0.765,0.757,0.853,0.856,0.808,(6.6040)+(0.0037)Asn+(-0.0585)His+(-0.0266)Cit+(-0.0421)Val+(-0.1
955)Met+(0.1684)Ile;0.817,0.842,0.821,0.820,0.838,0.853,0.769,0.820,(6.0276)+(0.0045)Gln+(-0.0050)Ala+(-0.1113)Cit+(-0.0068)Arg+(0.0565)Orn+(-0.1520)Trp;0.817,0.841,0.816,0.807,0.844,0.839,0.762,0.813,(7.9604)+(-0.0423)Asn+(-0.1038)Cit+(-0.0364)Met+(0.0574)Orn+(0.0014)Lys+(-0.1406)Trp;0.817,0.846,0.785,0.775,0.817,0.786,0.749,0.781,(3.8390)+(0.0023)Gly+(0.0111)Thr+(-0.1021)Cit+(0.0037)Pro+(0.0865)Phe+(-0.1864)Trp;0.817,0.841,0.801,0.790,0.831,0.831,0.746,0.799,(7.0999)+(-0.1140)Cit+(-0.0018)Arg+(0.0058)Pro+(0.0556)Orn+(-0.0049)Lys+(-0.1563)Trp;0.817,0.838,0.719,0.682,0.699,0.831,0.779,0.748,(2.6885)+(0.0363)Ser+(-0.1133)His+(-0.0005)Thr+(-0.0392)Cit+(-0.0284)Val+(0.1212)Ile;0.817,0.855,0.835,0.844,0.835,0.798,0.838,0.829,(3.1676)+(-0.1003)Asn+(0.0056)Gln+(0.0018)Pro+(0.0049)Orn+(0.0701)Phe+(-0.1609)Trp;0.817,0.853,0.812,0.815,0.826,0.781,0.798,0.805,(4.6882)+(-0.1027)Asn+(0.0000)Gly+(0.0173)Thr+(0.0030)Orn+(0.0737)Phe+(-0.1628)Trp;0.817,0.852,0.810,0.821,0.791,0.795,0.834,0.810,(3.6504)+(-0.0078)Ala+(0.0091)Pro+(-0.0068)Val+(0.0107)Orn+(0.0825)Phe+(-0.1543)Trp;0.817,0.856,0.838,0.849,0.841,0.797,0.829,0.829,(1.6323)+(0.0060)Gln+(-0.2447)Met+(0.0039)Orn+(0.0010)Leu+(0.1093)Phe+(-0.1489)Trp;0.817,0.856,0.848,0.860,0.846,0.814,0.847,0.842,(1.7525)+(0.0062)Gln+(-0.0026)Ala+(0.0069)Tyr+(-0.2336)Met+(0.1122)Phe+(-0.1480)Trp;0.817,0.852,0.830,0.840,0.838,0.798,0.80

9,0.821,(3.4879)+(0.0026)Gly+(0.0088)Tyr+(-0.0059)Val+(-0.2150)Met+(0.1223)Phe+(-0.1374)Trp;0.817,0.851,0.826,0.829,0.815,0.810,0.849,0.826,(4.7998)+(-0.0587)Asn+(-0.0073)Ala+(0.0088)Pro+(0.0004)Leu+(0.0836)Phe+(-0.1493)Trp;0.817,0.850,0.782,0.772,0.795,0.821,0.755,0.786,(4.2187)+(0.0334)Ser+(-0.0702)Cit+(-0.0056)Arg+(-0.0153)Val+(0.0426)Leu+(-0.1658)Trp;0.817,0.849,0.789,0.788,0.769,0.826,0.807,0.797,(3.9625)+(0.0395)Ser+(-0.0079)Gly+(-0.0061)Ala+(0.0124)Pro+(-0.0119)Tyr+(-0.1419)Trp;0.817,0.848,0.800,0.810,0.806,0.836,0.734,0.796,(4.6752)+(0.0386)Ser+(-0.0991)Asn+(-0.0148)Arg+(0.0232)Orn+(0.0028)Lys+(-0.1341)Trp;0.817,0.847,0.736,0.696,0.755,0.834,0.733,0.755,(2.8939)+(0.0477)Ser+(-0.1337)His+(0.0088)Pro+(-0.2025)Met+(0.0180)Orn+(0.0235)Leu;0.817,0.845,0.835,0.849,0.838,0.840,0.789,0.829,(5.9924)+(-0.0676)Asn+(-0.0028)Gly+(0.0067)Gln+(0.0256)Thr+(-0.1507)Met+(-0.1443)Trp;0.817,0.845,0.764,0.741,0.761,0.844,0.776,0.780,(2.5597)+(0.0369)Ser+(-0.0992)Asn+(0.0079)Gln+(-0.1534)His+(0.0042)Thr+(0.0198)Leu;0.817,0.841,0.804,0.799,0.833,0.830,0.740,0.801,(5.5982)+(0.0003)Gly+(0.0030)Gln+(0.0040)Thr+(-0.1145)Cit+(0.0481)Orn+(-0.1678)Trp;0.817,0.847,0.823,0.830,0.847,0.851,0.737,0.816,(8.5777)+(-0.0462)Asn+(0.0301)Thr+(-0.0626)Cit+(-0.0004)Arg+(-0.1138)Met+(-0.1381)Trp;0.817,0.842,0.792,0.788,0.795,0.815,0.779,0.794,(7.8567)+(-0.0326)Asn+(0.0034)Gly+(-0.0879)His+(0.0078)Pro+(0.0116)Lys+(-0.1066)Trp;0.817,0.845,0.821,0.822,0.849,0.845,0.742,0.815,(7.3576)+(0.0264)Thr+(-0.0644)Cit+(0.0224)Tyr+(-0.1892)Met+(0.0037)Lys+(-0.1501)Trp;0.817,0.841,0.754,0.729,0.723,0.835,0.826,0.779,(5.8332)+(-0.0827)Asn+(0.0031)Gly+(-0.0803)His+(-0.0415)Val+(0.0313)Orn+(0.1376)Ile;0.817,0.853,0.852,0.864,0.838,0.829,0.865,0.849,(3.1937)+(-0.0876)Asn+(0.0060)Gln+(-0.0051)Ala+(0.0004)Lys+(0.0841)Phe+(-0.1538)Trp;0.817,0.849,0.786,0.779,0.784,0.802,0.796,0.790,(2.0701)+(-0.1043)Asn+(0.0451)Thr+(-0.0608)Val+(-0.3844)Met+(0.0864)Leu+(0

.1280)Phe;0.817,0.848,0.797,0.784,0.812,0.822,0.779,0.799,(3.6803)+(0.0363)Ser+(-0.0049)Gly+(0.0020)Gln+(-0.0783)Cit+(0.0165)Leu+(-0.1730)Trp;0.817,0.845,0.785,0.767,0.804,0.808,0.780,0.790,(5.8053)+(0.0132)Thr+(-0.0832)Cit+(-0.0079)Arg+(0.0003)Pro+(0.0606)Ile+(-0.1815)Trp;0.817,0.845,0.772,0.742,0.762,0.831,0.834,0.792,(2.0049)+(0.0108)Gln+(-0.1596)His+(-0.0562)Cit+(-0.0145)Lys+(0.0437)Ile+(0.0650)Phe;0.817,0.850,0.837,0.845,0.831,0.825,0.835,0.834,(3.1226)+(0.0056)Gln+(-0.0060)Ala+(-0.0910)Cit+(-0.0051)Arg+(0.1015)Phe+(-0.1692)Trp;0.817,0.852,0.828,0.832,0.821,0.812,0.842,0.827,(4.9341)+(-0.0479)Asn+(-0.0071)Ala+(-0.0099)Arg+(0.0093)Pro+(0.0875)Phe+(-0.1492)Trp;0.817,0.852,0.803,0.814,0.806,0.765,0.796,0.795,(2.6626)+(0.0014)Gln+(0.0051)Thr+(-0.0086)Val+(0.0061)Orn+(0.0774)Phe+(-0.1701)Trp;0.817,0.849,0.834,0.843,0.827,0.848,0.815,0.833,(4.3309)+(0.0458)Ser+(-0.1045)Asn+(-0.0079)Gly+(0.0053)Gln+(-0.0123)Arg+(-0.1352)Trp;0.817,0.849,0.831,0.836,0.823,0.843,0.825,0.832,(4.2419)+(0.0449)Ser+(-0.1149)Asn+(-0.0078)Gly+(0.0045)Gln+(0.0007)Lys+(-0.1385)Trp;0.817,0.847,0.782,0.771,0.746,0.860,0.830,0.802,(4.7287)+(0.0042)Gly+(-0.0509)Cit+(-0.0457)Val+(-0.2538)Met+(0.2039)Ile+(-0.0219)Leu;0.817,0.846,0.787,0.787,0.767,0.803,0.818,0.794,(5.4067)+(-0.0008)Gly+(-0.0202)Tyr+(0.0008)Lys+(0.1428)Ile+(-0.0645)Leu+(-0.1375)Trp;0.817,0.846,0.794,0.782,0.814,0.828,0.760,0.796,(8.4029)+(-0.0910)His+(0.0225)Thr+(-0.0454)Cit+(0.0011)Tyr+(0.0087)Val+(-0.1235)Trp;0.817,0.846,0.800,0.798,0.802,0.841,0.772,0.803,(8.2826)+(0.0006)Gly+(-0.0932)His+(0.0205)Thr+(-0.0017)Ala+(0.0093)Tyr+(-0.1078)Trp;0.817,0.842,0.802,0.786,0.780,0.857,0.851,0.819,(3.7540)+(-0.0423)Asn+(0.0117)Gln+(-0.1427)His+(-0.0055)Ala+(-0.0150)Arg+(0.0555)Ile;0.817,0.841,0.755,0.753,0.688,0.854,0.828,0.781,(1.2396)+(0.0311)Ser+(-0.0098)Ala+(-0.0336)Arg+(-0.0405)Val+(0.2140)Ile+(-0.0415)Leu;0.817,0.847,0.800,0.788,0.812,0.829,0.787,0.804,(7.9018)+(-0.0936)Hi

s+(0.0039)Val+(-0.0692)Met+(0.0316)Orn+(0.0103)Lys+(-0.1063)Trp;0.817,0.846,0.806,0.788,0.812,0.826,0.830,0.814,(6.8346)+(-0.0309)Asn+(-0.0824)Cit+(0.0098)Arg+(-0.0059)Lys+(0.0654)Ile+(-0.1611)Trp;0.817,0.845,0.759,0.751,0.689,0.864,0.854,0.789,(1.7257)+(0.0246)Ser+(-0.0114)Ala+(-0.0765)Cit+(-0.0185)Tyr+(-0.0455)Val+(0.1757)Ile;0.817,0.844,0.747,0.728,0.701,0.856,0.818,0.776,(2.6477)+(0.0420)Ser+(-0.2008)Asn+(-0.0585)Val+(0.0258)Orn+(0.1761)Ile+(-0.0022)Leu;0.817,0.852,0.798,0.794,0.809,0.830,0.766,0.800,(1.9286)+(0.0406)Ser+(0.0022)Gln+(0.0297)Tyr+(-0.2414)Met+(0.0221)Leu+(-0.1557)Trp;0.817,0.849,0.784,0.785,0.794,0.824,0.729,0.783,(3.1032)+(0.0407)Ser+(-0.0110)Arg+(-0.1762)Met+(0.0182)Orn+(0.0196)Leu+(-0.1435)Trp;0.817,0.848,0.811,0.812,0.822,0.792,0.803,0.807,(3.0985)+(0.0042)Gln+(-0.0970)Cit+(0.0052)Pro+(-0.0036)Val+(0.0873)Phe+(-0.1787)Trp;0.817,0.846,0.742,0.710,0.726,0.797,0.818,0.763,(3.7935)+(-0.1319)His+(0.0097)Thr+(-0.0074)Lys+(0.0965)Ile+(-0.0482)Leu+(0.0726)Phe;0.817,0.845,0.801,0.805,0.778,0.818,0.827,0.807,(2.4173)+(-0.0722)Asn+(0.0116)Gln+(-0.1505)His+(-0.0399)Tyr+(0.0007)Lys+(0.1007)Phe;0.817,0.844,0.815,0.802,0.838,0.842,0.784,0.816,(7.8560)+(-0.0376)Asn+(-0.0051)Ala+(-0.1126)Cit+(0.0587)Orn+(0.0139)Leu+(-0.1486)Trp;0.817,0.843,0.784,0.761,0.756,0.853,0.848,0.805,(3.5302)+(0.0013)Gly+(0.0085)Gln+(-0.1453)His+(-0.0062)Ala+(-0.0063)Lys+(0.0602)Ile;0.817,0.843,0.795,0.786,0.826,0.826,0.733,0.793,(6.5496)+(0.0056)Thr+(-0.1134)Cit+(0.0051)Pro+(-0.0015)Val+(0.0495)Orn+(-0.1648)Trp;0.817,0.850,0.796,0.775,0.810,0.826,0.800,0.803,(7.8459)+(-0.0980)His+(-0.0770)Met+(0.0302)Orn+(0.0079)Lys+(0.0192)Leu+(-0.1107)Trp;0.817,0.849,0.766,0.747,0.768,0.798,0.788,0.775,(2.5040)+(0.0442)Ser+(-0.0072)Gly+(0.0011)Thr+(-0.0251)Arg+(0.0568)Ile+(-0.1718)Trp;0.817,0.847,0.798,0.807,0.774,0.820,0.811,0.803,(4.4706)+(0.0052)Gln+(-0.0267)Arg+(-0.0135)Tyr+(0.1575)Ile+(-0.0729)Leu+(-0.1383)Trp;0.817,0.843,0.783

,0.763,0.763,0.839,0.838,0.801,(3.6718)+(-0.0681)Asn+(0.0092)Gln+(-0.1299)His+(0.0114)Orn+(0.0962)Ile+(-0.0395)Leu;0.817,0.843,0.719,0.696,0.716,0.797,0.729,0.734,(1.0025)+(0.0457)Ser+(-0.1500)His+(-0.0355)Cit+(-0.0457)Tyr+(0.0058)Leu+(0.1142)Phe;0.817,0.842,0.750,0.732,0.698,0.859,0.828,0.779,(2.6903)+(0.0437)Ser+(-0.1743)Asn+(-0.0535)Val+(-0.0040)Lys+(0.1784)Ile+(-0.0056)Leu;0.817,0.851,0.828,0.841,0.835,0.796,0.803,0.819,(3.6417)+(0.0025)Gly+(-0.0033)Arg+(-0.0056)Val+(-0.1958)Met+(0.1242)Phe+(-0.1357)Trp;0.817,0.850,0.813,0.806,0.815,0.810,0.832,0.816,(4.9381)+(-0.0092)Ala+(-0.0937)Cit+(0.0119)Pro+(0.0069)Leu+(0.0951)Phe+(-0.1672)Trp;0.817,0.849,0.767,0.748,0.770,0.798,0.788,0.776,(2.4615)+(0.0443)Ser+(-0.0072)Gly+(-0.0252)Arg+(0.0035)Orn+(0.0557)Ile+(-0.1712)Trp;0.817,0.849,0.783,0.783,0.791,0.822,0.741,0.784,(2.8360)+(0.0402)Ser+(-0.1857)Met+(0.0155)Orn+(-0.0023)Lys+(0.0216)Leu+(-0.1448)Trp;0.817,0.844,0.773,0.751,0.750,0.873,0.809,0.796,(1.7063)+(0.0458)Ser+(-0.0930)Asn+(-0.0109)Ala+(-0.0877)Cit+(-0.0165)Lys+(0.0791)Ile;0.817,0.841,0.729,0.700,0.712,0.791,0.797,0.750,(2.8828)+(0.0037)Gly+(-0.1360)His+(0.0036)Thr+(0.0983)Ile+(-0.0513)Leu+(0.0730)Phe;0.817,0.850,0.810,0.818,0.812,0.769,0.811,0.803,(2.8721)+(-0.0019)Gly+(0.0019)Gln+(0.0072)Thr+(-0.0080)Val+(0.0777)Phe+(-0.1721)Trp;0.817,0.851,0.796,0.783,0.807,0.823,0.786,0.800,(8.0879)+(-0.0168)Asn+(-0.0871)His+(0.0063)Pro+(-0.0003)Tyr+(0.0335)Orn+(-0.1015)Trp;0.817,0.844,0.741,0.713,0.708,0.811,0.835,0.767,(3.6875)+(0.0029)Gly+(-0.1135)His+(-0.0350)Val+(-0.0069)Lys+(0.1174)Ile+(0.0681)Phe;0.817,0.844,0.735,0.705,0.704,0.802,0.835,0.761,(3.4788)+(-0.1205)His+(0.0078)Thr+(-0.0316)Val+(0.1217)Ile+(-0.0145)Leu+(0.0656)Phe;0.817,0.845,0.816,0.819,0.821,0.816,0.799,0.813,(4.2897)+(0.0041)Gly+(-0.0059)Ala+(-0.0934)Cit+(0.0017)Val+(0.1050)Phe+(-0.1647)Trp;0.817,0.845,0.741,0.718,0.717,0.807,0.808,0.762,(3.0120)+(0.0042)Gly+(-0.1316)His+(-0.0056)Pro+(0.

1126)Ile+(-0.0561)Leu+(0.0777)Phe;0.817,0.844,0.749,0.731,0.702,0.857,0.819,0.777,(2.5777)+(0.0418)Ser+(-0.2038)Asn+(0.0004)Gln+(-0.0591)Val+(0.0256)Orn+(0.1742)Ile;0.817,0.842,0.751,0.737,0.695,0.858,0.828,0.779,(2.4974)+(0.0407)Ser+(-0.2036)Asn+(0.0013)Gln+(0.0060)Thr+(-0.0578)Val+(0.1759)Ile;0.817,0.851,0.805,0.798,0.788,0.809,0.857,0.813,(3.9736)+(-0.0101)Ala+(-0.0168)Arg+(0.0058)Pro+(0.0533)Ile+(0.0641)Phe+(-0.1666)Trp;0.817,0.849,0.790,0.778,0.752,0.854,0.857,0.810,(4.8180)+(-0.0405)Cit+(0.0040)Pro+(-0.0555)Val+(-0.2950)Met+(0.0084)Lys+(0.1857)Ile;0.817,0.846,0.788,0.788,0.767,0.807,0.818,0.795,(5.4522)+(-0.0006)Gly+(-0.0022)Pro+(-0.0177)Tyr+(0.1462)Ile+(-0.0647)Leu+(-0.1372)Trp;0.817,0.845,0.778,0.761,0.798,0.810,0.762,0.783,(5.4510)+(0.0026)Gly+(0.0114)Thr+(-0.0873)Cit+(-0.0075)Arg+(0.0628)Ile+(-0.1810)Trp;0.817,0.842,0.723,0.680,0.719,0.825,0.771,0.749,(1.4707)+(0.0334)Ser+(0.0042)Gln+(-0.1666)His+(-0.0025)Pro+(0.0036)Orn+(0.0540)Ile;0.817,0.840,0.764,0.749,0.713,0.838,0.856,0.789,(5.5893)+(0.0017)Gly+(-0.0866)His+(-0.0062)Ala+(-0.0094)Tyr+(-0.0344)Val+(0.1429)Ile;0.817,0.840,0.723,0.691,0.699,0.831,0.777,0

.750,(3.0308)+(0.0352)Ser+(-0.1082)His+(-0.0391)Cit+(-0.0154)Tyr+(-0.0273)Val+(0.1223)Ile;0.817,0.849,0.800,0.793,0.802,0.820,0.798,0.804,(4.3223)+(0.0495)Ser+(-0.1106)Asn+(-0.0073)Gly+(0.0178)Orn+(0.0105)Leu+(-0.1447)Trp;0.817,0.848,0.812,0.827,0.807,0.843,0.760,0.809,(4.2296)+(0.0323)Ser+(-0.1232)Asn+(0.0037)Gln+(0.0067)Thr+(0.0005)Lys+(-0.1400)Trp;0.817,0.848,0.794,0.782,0.807,0.821,0.776,0.797,(8.2334)+(-0.0110)Asn+(-0.0863)His+(-0.0068)Arg+(0.0065)Pro+(0.0352)Orn+(-0.1015)Trp;0.817,0.845,0.791,0.786,0.799,0.828,0.764,0.794,(7.8927)+(0.0007)Gly+(-0.0984)His+(0.0181)Thr+(0.0035)Tyr+(0.0052)Lys+(-0.1103)Trp;0.817,0.847,0.798,0.792,0.811,0.835,0.761,0.800,(8.3848)+(-0.0861)His+(0.0212)Thr+(-0.0399)Cit+(0.0049)Tyr+(0.0044)Lys+(-0.1161)Trp;0.817,0.85

3,0.817,0.831,0.793,0.799,0.843,0.817,(2.8035)+(0.0027)Gln+(-0.0081)A
la+(0.0090)Pro+(-0.0057)Val+(0.0850)Phe+(-0.1617)Trp;0.817,0.851,0.81
0,0.814,0.820,0.781,0.796,0.803,(3.2682)+(0.0020)Gly+(0.0073)Pro+(-0.
2345)Met+(0.0064)Orn+(0.1076)Phe+(-0.1434)Trp;0.817,0.842,0.717,0.673
,0.720,0.802,0.764,0.740,(0.7540)+(0.0475)Ser+(-0.0030)Gly+(-0.1672)H
is+(-0.0034)Thr+(0.0120)Orn+(0.0859)Phe;0.817,0.856,0.838,0.846,0.839
,0.799,0.844,0.832,(3.1389)+(-0.0972)Asn+(0.0058)Gln+(0.0022)Pro+(-0.
0011)Lys+(0.0735)Phe+(-0.1610)Trp;0.817,0.852,0.816,0.809,0.797,0.823
,0.872,0.825,(4.4997)+(-0.0400)Asn+(-0.0081)Ala+(-0.0045)Lys+(0.0567)
Ile+(0.0646)Phe+(-0.1582)Trp;0.817,0.846,0.762,0.748,0.752,0.784,0.80
6,0.773,(2.4933)+(0.0405)Ser+(-0.0083)Gly+(0.0007)Pro+(-0.0283)Tyr+(0
.0550)Ile+(-0.1652)Trp;0.817,0.845,0.785,0.773,0.743,0.858,0.852,0.80
6,(3.3224)+(0.0024)Gln+(-0.0569)Val+(-0.3171)Met+(0.0194)Orn+(0.0028)
Lys+(0.1888)Ile;0.817,0.845,0.757,0.734,0.731,0.810,0.834,0.777,(3.87
67)+(-0.1222)His+(-0.0053)Pro+(-0.0032)Lys+(0.1149)Ile+(-0.0574)Leu+(
0.0753)Phe;0.817,0.841,0.787,0.778,0.743,0.848,0.860,0.807,(4.6277)+(
-0.0933)Asn+(0.0087)Gln+(-0.0943)His+(-0.0147)Tyr+(-0.0342)Val+(0.128
7)Ile;0.817,0.840,0.777,0.762,0.741,0.850,0.841,0.798,(5.7176)+(-0.02
59)Asn+(0.0039)Gly+(-0.0967)His+(-0.0069)Ala+(0.1274)Ile+(-0.0475)Leu
;0.817,0.838,0.766,0.741,0.766,0.841,0.778,0.782,(2.2085)+(0.0406)Ser
+(-0.0051)Gly+(0.0084)Gln+(-0.1640)His+(-0.0224)Arg+(0.0172)Leu;0.817
,0.849,0.815,0.818,0.819,0.858,0.769,0.816,(3.7115)+(0.0365)Ser+(-0.0
013)Ala+(0.0343)Tyr+(-0.1907)Met+(0.0042)Lys+(-0.1453)Trp;0.817,0.847
,0.811,0.808,0.836,0.835,0.753,0.808,(7.1885)+(0.0300)Thr+(-0.0034)Al
a+(-0.0714)Cit+(-0.1644)Met+(0.0240)Leu+(-0.1524)Trp;0.817,0.847,0.80
7,0.818,0.802,0.850,0.757,0.806,(5.2863)+(0.0340)Ser+(-0.1040)Asn+(0.
0094)Thr+(-0.0022)Ala+(0.0018)Lys+(-0.1359)Trp;0.817,0.846,0.813,0.83
1,0.814,0.847,0.742,0.808,(3.4663)+(0.0322)Ser+(0.0036)Gln+(-0.0151)A

rg+(-0.1532)Met+(0.0069)Lys+(-0.1390)Trp;0.817,0.848,0.791,0.799,0.792,0.830,0.737,0.790,(4.6831)+(0.0416)Ser+(-0.0968)Asn+(-0.0117)Arg+(0.0087)Pro+(-0.0015)Tyr+(-0.1330)Trp;0.817,0.846,0.782,0.772,0.784,0.858,0.747,0.790,(3.3277)+(0.0346)Ser+(-0.0780)Asn+(0.0088)Gln+(-0.1367)His+(-0.0205)Arg+(0.0249)Orn;0.817,0.848,0.797,0.794,0.811,0.843,0.745,0.798,(8.3755)+(0.0021)Gly+(-0.0843)His+(0.0211)Thr+(-0.0434)Cit+(0.0096)Tyr+(-0.1144)Trp;0.817,0.846,0.804,0.799,0.808,0.817,0.801,0.806,(8.1592)+(-0.0079)Asn+(-0.0799)His+(0.0100)Pro+(-0.0929)Met+(0.0151)Lys+(-0.1068)Trp;0.817,0.842,0.729,0.697,0.700,0.800,0.825,0.755,(3.3215)+(0.0018)Gly+(-0.1254)His+(0.0078)Thr+(-0.0347)Val+(0.1100)Ile+(0.0634)Phe;0.817,0.843,0.759,0.731,0.747,0.819,0.816,0.778,(1.9261)+(0.0023)Gly+(0.0085)Gln+(-0.1685)His+(-0.0114)Lys+(0.0369)Ile+(0.0592)Phe;0.817,0.846,0.809,0.804,0.826,0.791,0.801,0.805,(4.8222)+(-0.0896)Cit+(0.0062)Pro+(-0.0028)Val+(-0.0041)Lys+(0.0938)Phe+(-0.1678)Trp;0.817,0.846,0.733,0.698,0.706,0.807,0.830,0.760,(3.4511)+(-0.1251)His+(0.0068)Thr+(-0.0362)Val+(0.0172)Orn+(0.1096)Ile+(0.0584)Phe;0.817,0.842,0.816,0.807,0.843,0.840,0.763,0.813,(8.0404)+(-0.0419)Asn+(-0.1046)Cit+(-0.0004)Val+(-0.0308)Met+(0.0587)Orn+(-0.1392)Trp;0.817,0.840,0.774,0.748,0.748,0.844,0.842,0.796,(3.3964)+(0.0008)Gly+(0.0074)Gln+(-0.1526)His+(0.0058)Thr+(-0.0068)Ala+(0.0558)Ile;0.817,0.853,0.808,0.799,0.816,0.784,0.834,0.808,(3.4918)+(0.0029)Pro+(0.0013)Tyr+(-0.2454)Met+(0.0499)Ile+(0.0871)Phe+(-0.1529)Trp;0.817,0.852,0.775,0.756,0.779,0.852,0.763,0.787,(1.9106)+(0.0397)Ser+(0.0088)Gln+(-0.1504)His+(-0.0146)Arg+(-0.1636)Met+(0.0287)Leu;0.817,0.852,0.795,0.811,0.807,0.771,0.749,0.784,(5.0455)+(-0.0853)Asn+(0.0287)Thr+(-0.0199)Arg+(-0.0421)Tyr+(0.1035)Phe+(-0.1550)Trp;0.817,0.845,0.783,0.760,0.769,0.826,0.844,0.800,(2.1287)+(-0.0777)Asn+(0.0109)Gln+(-0.1615)His+(0.0039)Orn+(0.0276)Ile+(0.0572)Phe;0.817,0.842,0.723,0.704,0.718,0.799,0.727,0

.737,(1.0562)+(0.0455)Ser+(-0.1476)His+(-0.0349)Cit+(-0.0449)Tyr+(0.0002)Val+(0.1198)Phe;0.817,0.842,0.814,0.806,0.841,0.838,0.763,0.812,(7.9776)+(-0.0524)Asn+(-0.1104)Cit+(0.0039)Arg+(0.0586)Orn+(-0.0012)Lys+(-0.1437)Trp;0.817,0.839,0.720,0.684,0.699,0.832,0.780,0.749,(2.7241)+(0.0361)Ser+(-0.1134)His+(-0.0393)Cit+(-0.0012)Pro+(-0.0283)Val+(0.1225)Ile;0.817,0.853,0.816,0.822,0.831,0.786,0.794,0.808,(4.7585)+(-0.1040)Asn+(0.0174)Thr+(0.0048)Orn+(-0.0053)Leu+(0.0779)Phe+(-0.1585)Trp;0.817,0.847,0.791,0.768,0.807,0.819,0.802,0.799,(7.8634)+(-0.0131)Asn+(-0.1019)His+(0.0301)Orn+(0.0045)Lys+(0.0175)Leu+(-0.1137)Trp;0.817,0.842,0.801,0.790,0.831,0.819,0.757,0.799,(5.3021)+(0.0032)Gln+(-0.1178)Cit+(0.0038)Pro+(0.0454)Orn+(0.0078)Leu+(-0.1766)Trp;0.817,0.841,0.792,0.777,0.826,0.816,0.741,0.790,(6.2626)+(0.0059)Thr+(-0.1160)Cit+(0.0036)Pro+(0.0466)Orn+(0.0082)Leu+(-0.1750)Trp;0.817,0.839,0.739,0.705,0.741,0.833,0.759,0.760,(2.2434)+(0.0355)Ser+(0.0059)Gln+(-0.1623)His+(0.0026)Pro+(-0.0113)Lys+(0.0225)Leu;0.817,0.842,0.803,0.788,0.815,0.837,0.794,0.809,(6.9898)+(-0.0055)Ala+(-0.1096)Cit+(-0.0210)Val+(0.0603)Orn+(0.0487)Leu+(-0.1550)Trp;0.817,0.848,0.787,0.777,0.808,0.822,0.743,0.787,(3.6266)+(0.0299)Ser+(0.0016)Gln+(0.0011)Thr+(-0.0850)Cit+(0.0176)Leu+(-0.1750)Trp;0.817,0.845,0.764,0.739,0.763,0.844,0.776,0.780,(2.4879)+(0.0374)Ser+(-0.0970)Asn+(0.0076)Gln+(-0.1518)His+(0.0135)Orn+(0.0176)Leu;0.817,0.851,0.800,0.794,0.776,0.842,0.834,0.812,(-2.0037)+(0.0081)Gln+(-0.0911)Cit+(-0.3691)Met+(0.1911)Ile+(-0.1013)Leu+(0.1235)Phe;0.817,0.846,0.768,0.757,0.726,0.835,0.837,0.789,(3.2399)+(-0.1670)Asn+(0.0075)Gly+(-0.0693)Cit+(-0.0597)Val+(0.1689)Ile+(0.0864)Phe;0.817,0.845,0.790,0.758,0.785,0.833,0.852,0.807,(4.4091)+(-0.1138)His+(-0.0060)Ala+(0.0056)Pro+(-0.2091)Met+(0.0506)Ile+(0.0928)Phe;0.817,0.852,0.768,0.748,0.767,0.807,0.795,0.779,(2.6675)+(0.0485)Ser+(-0.0077)Gly+(-0.0178)Arg+(-0.0111)Lys+(0.0647)Ile+(-0.1617

)Trp;0.817,0.846,0.801,0.807,0.780,0.821,0.817,0.806,(4.3392)+(-0.000
6)Gly+(0.0052)Gln+(-0.0282)Arg+(0.1561)Ile+(-0.0733)Leu+(-0.1445)Trp;
0.817,0.845,0.800,0.796,0.814,0.846,0.751,0.802,(4.6603)+(0.0330)Ser+
(-0.0038)Ala+(-0.0767)Cit+(-0.0023)Arg+(0.0087)Val+(-0.1553)Trp;0.817
,0.843,0.813,0.809,0.839,0.839,0.749,0.809,(5.9026)+(0.0046)Gln+(-0.1
140)Cit+(-0.0051)Arg+(0.0546)Orn+(-0.0063)Lys+(-0.1577)Trp;0.817,0.84
2,0.758,0.729,0.768,0.829,0.765,0.773,(6.5067)+(-0.1157)His+(0.0401)T
hr+(0.0073)Pro+(-0.0348)Val+(-0.2778)Met+(0.0763)Leu;0.817,0.841,0.77
9,0.764,0.729,0.847,0.872,0.803,(6.6631)+(-0.0419)Asn+(-0.0677)His+(-
0.0058)Ala+(-0.0063)Arg+(-0.0402)Val+(0.1545)Ile;0.817,0.852,0.789,0.
777,0.797,0.808,0.789,0.793,(5.1834)+(0.0250)Thr+(0.0084)Tyr+(-0.2482
)Met+(-0.0024)Lys+(0.0666)Ile+(-0.1536)Trp;0.817,0.851,0.838,0.851,0.
828,0.821,0.840,0.835,(4.6187)+(-0.0670)Asn+(0.0023)Gly+(-0.0039)Ala+
(-0.0056)Val+(0.0989)Phe+(-0.1405)Trp;0.817,0.849,0.813,0.810,0.818,0
.837,0.792,0.814,(3.7623)+(0.0483)Ser+(-0.0070)Gly+(0.0263)Tyr+(0.004
4)Val+(-0.1850)Met+(-0.1475)Trp;0.817,0.849,0.815,0.819,0.826,0.786,0
.801,0.808,(3.8895)+(-0.0069)Arg+(0.0072)Pro+(-0.2169)Met+(0.0104)Orn
+(0.1034)Phe+(-0.1429)Trp;0.817,0.848,0.813,0.827,0.808,0.847,0.758,0
.810,(3.4558)+(0.0308)Ser+(0.0030)Gln+(-0.0005)Ala+(-0.1546)Met+(0.00
37)Lys+(-0.1391)Trp;0.817,0.847,0.801,0.780,0.794,0.852,0.836,0.816,(
3.0269)+(-0.0088)Asn+(0.0126)Gln+(-0.1311)His+(-0.0478)Cit+(-0.1864)M
et+(0.0677)Ile;0.817,0.838,0.742,0.710,0.743,0.836,0.759,0.762,(2.364
5)+(0.0346)Ser+(0.0060)Gln+(-0.1634)His+(0.0017)Thr+(-0.0115)Lys+(0.0
242)Leu;0.817,0.843,0.796,0.775,0.824,0.830,0.765,0.799,(8.2333)+(-0.
0768)His+(-0.0783)Cit+(0.0047)Val+(0.0540)Orn+(0.0022)Lys+(-0.1197)Tr
p;0.817,0.847,0.844,0.850,0.839,0.858,0.828,0.844,(6.2658)+(-0.0673)A
sn+(0.0081)Gln+(-0.0054)Ala+(-0.0773)Cit+(0.0130)Pro+(-0.1416)Trp;0.8
17,0.846,0.817,0.821,0.823,0.859,0.761,0.816,(4.0668)+(0.0394)Ser+(-0

.0010)Ala+(-0.0101)Arg+(0.0369)Tyr+(-0.1705)Met+(-0.1398)Trp;0.817,0.846,0.811,0.817,0.819,0.856,0.744,0.809,(4.5880)+(0.0255)Ser+(0.0024)Gln+(0.0058)Thr+(-0.0031)Ala+(-0.0749)Cit+(-0.1515)Trp;0.817,0.848,0.828,0.836,0.821,0.857,0.801,0.829,(6.0273)+(0.0013)Gly+(0.0109)Gln+(-0.0986)His+(-0.0318)Cit+(-0.0084)Arg+(-0.1013)Trp;0.817,0.845,0.737,0.707,0.715,0.810,0.809,0.760,(4.2004)+(-0.1173)His+(0.0199)Thr+(-0.0313)Arg+(-0.0415)Val+(0.1265)Ile+(0.0761)Phe;0.817,0.842,0.770,0.757,0.716,0.860,0.853,0.797,(3.9964)+(-0.0108)Ala+(-0.1015)Cit+(-0.0292)Tyr+(-0.0486)Val+(0.0485)Orn+(0.1698)Ile;0.817,0.854,0.824,0.826,0.816,0.798,0.855,0.824,(5.0949)+(-0.0696)Asn+(-0.0064)Arg+(-0.0290)Val+(0.0463)Leu+(0.0901)Phe+(-0.1486)Trp;0.817,0.845,0.806,0.803,0.755,0.873,0.871,0.825,(3.8076)+(-0.0632)Asn+(0.0066)Gln+(-0.0076)Arg+(-0.0544)Val+(-0.2445)Met+(0.1862)Ile;0.817,0.843,0.762,0.735,0.730,0.838,0.842,0.786,(6.1818)+(-0.0741)Asn+(-0.0792)His+(-0.0026)Pro+(-0.0421)Val+(0.0341)Orn+(0.1401)Ile;0.817,0.842,0.816,0.808,0.843,0.840,0.766,0.814,(7.9355)+(-0.0444)Asn+(-0.1071)Cit+(0.0049)Arg+(-0.0366)Met+(0.0578)Orn+(-0.1398)Trp;0.817,0.851,0.798,0.800,0.795,0.834,0.770,0.800,(2.4912)+(0.0375)Ser+(0.0024)Gln+(-0.0020)Ala+(-0.1810)Met+(0.0243)Leu+(-0.1463)Trp;0.817,0.848,0.756,0.743,0.754,0.858,0.722,0.769,(4.3532)+(0.0395)Ser+(-0.1133)His+(0.0137)Thr+(-0.0037)Ala+(0.0148)Pro+(-0.1853)Met;0.817,0.839,0.789,0.776,0.825,0.818,0.728,0.786,(6.1096)+(0.0015)Gly+(0.0059)Thr+(-0.1173)Cit+(0.0478)Orn+(0.0104)Leu+(-0.1744)Trp;0.817,0.850,0.788,0.791,0.793,0.823,0.745,0.788,(2.4056)+(0.0376)Ser+(0.0018)Gln+(-0.1978)Met+(0.0130)Orn+(0.0204)Leu+(-0.1480)Trp;0.817,0.847,0.793,0.780,0.820,0.843,0.733,0.794,(8.0564)+(0.0042)Gly+(-0.0706)His+(-0.0826)Cit+(-0.0233)M

et+(0.0589)Orn+(-0.1071)Trp;0.817,0.845,0.802,0.786,0.826,0.836,0.770,0.804,(8.5713)+(-0.0245)Asn+(-0.0680)His+(-0.0771)Cit+(0.0563)Orn+(0

.0051)Lys+(-0.1133)Trp;0.817,0.841,0.801,0.790,0.831,0.821,0.751,0.798,(5.3522)+(0.0029)Gln+(0.0041)Thr+(-0.1169)Cit+(0.0451)Orn+(0.0096)Leu+(-0.1779)Trp;0.817,0.840,0.769,0.756,0.718,0.839,0.862,0.794,(5.8404)+(-0.0808)His+(-0.0063)Ala+(-0.0118)Tyr+(-0.0311)Val+(0.1540)Ile+(-0.0137)Leu;0.817,0.852,0.792,0.803,0.778,0.771,0.811,0.791,(3.5473)+(-0.0330)Tyr+(-0.0271)Val+(0.0168)Orn+(0.0410)Leu+(0.0882)Phe+(-0.1593)Trp;0.817,0.846,0.733,0.701,0.705,0.809,0.825,0.760,(3.3309)+(0.0019)Gly+(-0.1217)His+(-0.0359)Val+(0.0188)Orn+(0.1104)Ile+(0.0594)Phe;0.817,0.846,0.805,0.787,0.812,0.819,0.825,0.811,(6.7013)+(-0.0391)Asn+(-0.0795)Cit+(0.0056)Arg+(0.0016)Pro+(0.0592)Ile+(-0.1646)Trp;0.817,0.842,0.779,0.759,0.747,0.860,0.842,0.802,(5.9094)+(-0.0909)His+(0.0109)Thr+(-0.0087)Ala+(-0.0566)Cit+(0.1336)Ile+(-0.0490)Leu;0.817,0.853,0.816,0.821,0.830,0.787,0.798,0.809,(4.7765)+(-0.1034)Asn+(-0.0000)Gly+(0.0183)Thr+(-0.0046)Leu+(0.0798)Phe+(-0.1599)Trp;0.817,0.849,0.750,0.717,0.760,0.825,0.759,0.765,(5.3712)+(0.0037)Gly+(-0.1307)His+(0.0303)Thr+(0.0007)Pro+(-0.2531)Met+(0.0717)Ile;0.817,0.847,0.783,0.787,0.767,0.810,0.784,0.787,(5.9927)+(0.0129)Thr+(-0.0257)Arg+(-0.0181)Tyr+(0.1503)Ile+(-0.0677)Leu+(-0.1376)Trp;0.817,0.845,0.723,0.688,0.698,0.829,0.789,0.751,(2.9902)+(0.0369)Ser+(-0.1110)His+(-0.0092)Tyr+(-0.0274)Val+(-0.0094)Lys+(0.1256)Ile;0.817,0.843,0.821,0.830,0.842,0.850,0.735,0.814,(7.9200)+(-0.0003)Gly+(0.0285)Thr+(-0.0015)Ala+(-0.0626)Cit+(-0.1383)Met+(-0.1389)Trp;0.817,0.841,0.805,0.800,0.833,0.830,0.742,0.801,(5.6156)+(0.0030)Gln+(0.0041)Thr+(-0.1143)Cit+(0.0001)Val+(0.0479)Orn+(-0.1680)Trp;0.817,0.840,0.758,0.743,0.690,0.863,0.864,0.790,(1.1502)+(0.0279)Ser+(-0.0052)Thr+(-0.0122)Ala+(-0.0755)Cit+(-0.0467)Val+(0.1778)Ile;0.817,0.840,0.728,0.696,0.727,0.814,0.751,0.747,(-0.0195)+(0.0385)Ser+(0.0050)Gln+(-0.1731)His+(-0.0408)Cit+(0.0006)Pro+(0.0897)Phe;0.817,0.852,0.788,0.777,0.796,0.807,0.789,0.792,(5.0788)

+(0.0243)Thr+(0.0009)Pro+(0.0080)Tyr+(-0.2545)Met+(0.0645)Ile+(-0.155
1)Trp;0.817,0.845,0.803,0.788,0.826,0.840,0.772,0.806,(8.6419)+(-0.02
21)Asn+(-0.0644)His+(-0.0833)Cit+(0.0044)Arg+(0.0593)Orn+(-0.1106)Trp
;0.817,0.842,0.718,0.669,0.726,0.823,0.754,0.743,(2.5683)+(0.0473)Ser
+(-0.0032)Gly+(-0.1484)His+(-0.0194)Arg+(0.0129)Orn+(0.0528)Ile;0.817
,0.852,0.824,0.828,0.812,0.813,0.843,0.824,(4.7920)+(-0.0628)Asn+(-0.
0073)Ala+(0.0081)Pro+(0.0111)Orn+(0.0777)Phe+(-0.1476)Trp;0.817,0.847
,0.800,0.810,0.806,0.838,0.733,0.797,(4.7015)+(0.0390)Ser+(-0.0961)As
n+(-0.0136)Arg+(0.0010)Tyr+(0.0241)Orn+(-0.1322)Trp;0.817,0.845,0.829
,0.846,0.831,0.838,0.773,0.822,(5.6125)+(-0.0727)Asn+(0.0062)Gln+(0.0
227)Thr+(-0.1517)Met+(0.0038)Lys+(-0.1455)Trp;0.817,0.841,0.779,0.754
,0.767,0.839,0.826,0.797,(3.8874)+(-0.0732)Asn+(0.0100)Gln+(-0.1507)H
is+(0.0127)Thr+(-0.0064)Lys+(0.0459)Ile;0.817,0.845,0.808,0.799,0.828
,0.792,0.804,0.806,(4.8787)+(-0.0921)Cit+(0.0051)Pro+(-0.0060)Lys+(0.
0044)Leu+(0.0884)Phe+(-0.1727)Trp;0.817,0.845,0.808,0.813,0.781,0.829
,0.837,0.815,(2.5639)+(-0.0696)Asn+(0.0115)Gln+(-0.1472)His+(-0.0024)
Ala+(-0.0346)Tyr+(0.1022)Phe;0.817,0.841,0.730,0.693,0.736,0.815,0.75
1,0.749,(1.4478)+(0.0511)Ser+(-0.0020)Gly+(-0.1505)His+(-0.0325)Cit+(
-0.0132)Lys+(0.1059)Phe;0.817,0.851,0.816,0.812,0.812,0.827,0.829,0.8
20,(3.6015)+(0.0475)Ser+(-0.1211)Asn+(-0.0075)Gly+(0.0041)Gln+(0.0128
)Leu+(-0.1474)Trp;0.817,0.842,0.788,0.779,0.756,0.844,0.836,0.804,(3.
9747)+(-0.0597)Asn+(0.0095)Gln+(-0.1202)His+(-0.0237)Tyr+(0.1046)Ile+
(-0.0392)Leu;0.817,0.842,0.789,0.782,0.742,0.856,0.857,0.809,(3.2376)
+(0.0007)Gly+(0.0036)Gln+(0.0029)Pro+(-0.0541)Val+(-0.3149)Met+(0.185
9)Ile;0.817,0.841,0.814,0.806,0.837,0.846,0.762,0.813,(7.5000)+(-0.00
43)Ala+(-0.1103)Cit+(0.0030)Val+(-0.0407)Met+(0.0591)Orn+(-0.1427)Trp
;0.817,0.848,0.790,0.786,0.773,0.826,0.812,0.799,(3.7091)+(0.0396)Ser
+(-0.0075)Gly+(-0.0014)Thr+(-0.0066)Ala+(0.0119)Pro+(-0.1453)Trp;0.81

7,0.847,0.796,0.785,0.752,0.864,0.868,0.817,(2.8874)+(0.0036)Gln+(0.0176)Tyr+(-0.0575)Val+(-0.3521)Met+(0.0048)Lys+(0.1938)Ile;0.817,0.842,0.759,0.732,0.754,0.816,0.795,0.774,(1.8506)+(0.0103)Gln+(-0.1802)His+(0.0120)Thr+(-0.0291)Arg+(0.0288)Ile+(0.0592)Phe;0.817,0.840,0.727,0.694,0.726,0.812,0.753,0.746,(-0.0690)+(0.0387)Ser+(0.0051)Gln+(-0.1747)His+(-0.0411)Cit+(0.0037)Leu+(0.0860)Phe;0.817,0.845,0.821,0.830,0.818,0.850,0.785,0.821,(5.5012)+(0.0498)Ser+(-0.0584)Asn+(-0.0072)Gly+(-0.0055)Arg+(-0.0736)Met+(-0.1268)Trp;0.817,0.845,0.794,0.794,0.754,0.834,0.848,0.808,(0.1693)+(0.0034)Gly+(-0.0078)Ala+(-0.2910)Met+(0.1856)Ile+(-0.0944)Leu+(0.1086)Phe;0.817,0.843,0.804,0.800,0.799,0.823,0.815,0.809,(8.3716)+(-0.0229)Asn+(-0.0813)His+(-0.0038)Ala+(0.0111)Pro+(0.0119)Lys+(-0.1062)Trp;0.816,0.842,0.795,0.786,0.829,0.825,0.725,0.791,(6.7703)+(0.0083)Thr+(-0.1089)Cit+(-0.0097)Arg+(0.0049)Pro+(0.0491)Orn+(-0.1663)Trp;0.816,0.846,0.799,0.795,0.778,0.839,0.829,0.810,(2.2786)+(-0.0810)Asn+(0.0037)Gly+(0.0107)Gln+(-0.1543)His+(-0.0039)Ala+(0.0901)Phe;0.816,0.845,0.793,0.787,0.746,0.855,0.860,0.812,(5.0977)+(-0.0445)Asn+(-0.0542)Val+(-0.2614)Met+(0.0109)Lys+(0.2036)Ile+(-0.0153)Leu;0.816,0.842,0.815,0.808,0.841,0.838,0.763,0.813,(7.9929)+(-0.0543)Asn+(-0.1089)Cit+(0.0032)Arg+(-0.0009)Val+(0.0587)Orn+(-0.1427)Trp;0.816,0.853,0.832,0.829,0.849,0.809,0.824,0.828,(4.5377)+(-0.0806)Cit+(0.0108)Arg+(0.0055)Tyr+(-0.1783)Met+(0.1213)Phe+(-0.1530)Trp;0.816,0.852,0.769,0.744,0.770,0.849,0.772,0.784,(1.8748)+(0.0396)Ser+(0.0076)Gln+(-0.1496)His+(-0.1757)Met+(-0.0029)Lys+(0.0309)Leu;0.816,0.850,0.800,0.799,0.782,0.821,0.821,0.806,(6.5020)+(-0.0276)Asn+(-0.0135)Arg+(-0.0096)Tyr+(0.1475)Ile+(-0.0661)Leu+(-0.1275)Trp;0.816,0.842,0.786,0.763,0.759,0.854,0.856,0.808,(3.6073)+(0.0087)Gln+(-0.1442)His+(-0.0067)Ala+(0.0022)Pro+(-0.0064)Lys+(0.0576)Ile;0.816,0.855,0.817,0.830,0.815,0.780,0.811,0.809,(2.7095)+(0.0025)Gln+(-0.0071)Val+(

0.0102)Orn+(-0.0057)Lys+(0.0793)Phe+(-0.1632)Trp;0.816,0.850,0.769,0.753,0.770,0.800,0.791,0.778,(2.2943)+(0.0437)Ser+(-0.0073)Gly+(0.0009)Gln+(-0.0256)Arg+(0.0565)Ile+(-0.1723)Trp;0.816,0.849,0.754,0.722,0.761,0.824,0.776,0.771,(5.5753)+(0.0232)Asn+(-0.1310)His+(0.0322)Thr+(-0.0068)Tyr+(-0.2604)Met+(0.0727)Ile;0.816,0.848,0.770,0.761,0.764,0.851,0.748,0.781,(2.3843)+(0.0364)Ser+(0.0070)Gln+(-0.1336)His+(0.0120)Pro+(-0.1942)Met+(0.0041)Lys;0.816,0.845,0.801,0.807,0.779,0.822,0.815,0.806,(4.2905)+(0.0052)Gln+(-0.0277)Arg+(-0.0027)Pro+(0.1610)Ile+(-0.0743)Leu+(-0.1437)Trp;0.816,0.839,0.731,0.701,0.729,0.813,0.757,0.750,(-0.0810)+(0.0391)Ser+(0.0053)Gln+(-0.1720)His+(-0.0023)Thr+(-0.0398)Cit+(0.0910)Phe;0.816,0.853,0.832,0.827,0.853,0.806,0.821,0.827,(4.8330)+(-0.0750)Cit+(0.0070)Tyr+(-0.1689)Met+(0.0067)Leu+(0.1143)Phe+(-0.1563)Trp;0.816,0.847,0.791,0.784,0.805,0.825,0.755,0.792,(8.5006)+(-0.1006)His+(0.0242)Thr+(-0.0120)Arg+(0.0013)Tyr+(0.0070)Val+(-0.1152)Trp;0.816,0.847,0.780,0.757,0.797,0.822,0.773,0.787,(7.5721)+(0.0034)Gly+(-0.1060)His+(-0.0051)Arg+(0.0313)Orn+(0.0212)Leu+(-0.1109)Trp;0.816,0.846,0.786,0.793,0.779,0.837,0.745,0.789,(3.8777)+(0.0311)Ser+(-0.0069)Ala+(-0.0223)Arg+(0.0112)Pro+(0.0193)Orn+(-0.1426)Trp;0.816,0.846,0.821,0.818,0.802,0.838,0.857,0.829,(4.0123)+(0.0057)Gln+(-0.0056)Ala+(-0.1618)Met+(-0.0018)Lys+(0.0748)Ile+(-0.1450)Trp;0.816,0.842,0.736,0.709,0.703,0.802,0.830,0.761,(3.2437)+(0.0027)Gly+(-0.1164)His+(-0.0298)Val+(0.1254)Ile+(-0.0190)Leu+(0.0687)Phe;0.816,0.847,0.796,0.788,0.829,0.789,0.755,0.790,(4.4722)+(0.0175)Thr+(-0.0900)Cit+(-0.0122)Arg+(0.0018)Leu+(0.0888)Phe+(-0.1873)Trp;0.816,0.843,0.701,0.649,0.706,0.802,0.753,0.728,(0.2434)+(0.0466)Ser+(-0.1616)His+(-0.0027)Thr+(-0.0415)Cit+(0.0402)Ile+(0.0701)Phe;0.816,0.842,0.787,0.776,0.743,0.853,0.864,0.809,(4.4154)+(-0.1015)Asn+(0.0087)Gln+(-0.0980)His+(-0.0353)Val+(0.0015)Lys+(0.1268)Ile;0.816,0.848,0.784,0.759,0.792,0.8

25,0.803,0.795,(7.9900)+(-0.0969)His+(-0.0057)Arg+(-0.0215)Val+(0.038
3)Orn+(0.0528)Leu+(-0.1080)Trp;0.816,0.847,0.785,0.782,0.777,0.811,0.
788,0.790,(5.6131)+(0.0094)Thr+(-0.0286)Arg+(0.0111)Orn+(0.1476)Ile+(
-0.0699)Leu+(-0.1432)Trp;0.816,0.844,0.747,0.728,0.701,0.857,0.817,0.
775,(2.7050)+(0.0413)Ser+(-0.2059)Asn+(0.0027)Thr+(-0.0597)Val+(0.025
0)Orn+(0.1753)Ile;0.816,0.841,0.720,0.673,0.725,0.831,0.754,0.746,(2.
8302)+(0.0451)Ser+(-0.1321)His+(-0.0417)Cit+(-0.0011)Pro+(-0.0130)Lys
+(0.0691)Ile;0.816,0.848,0.777,0.770,0.772,0.861,0.747,0.788,(3.0155)
+(0.0315)Ser+(0.0064)Gln+(-0.1342)His+(-0.0004)Ala+(-0.1356)Met+(0.02
55)Orn;0.816,0.847,0.793,0.772,0.782,0.844,0.837,0.809,(3.0706)+(-0.0
026)Asn+(0.0111)Gln+(-0.1397)His+(0.0016)Pro+(-0.1962)Met+(0.0627)Ile
;0.816,0.842,0.724,0.692,0.703,0.833,0.773,0.750,(2.9382)+(0.0400)Ser
+(-0.1095)His+(-0.0245)Arg+(0.0006)Pro+(-0.0323)Val+(0.1323)Ile;0.816
,0.841,0.757,0.741,0.719,0.830,0.823,0.778,(6.8078)+(-0.0923)Asn+(-0.
0779)His+(0.0223)Thr+(-0.0269)Tyr+(-0.0399)Val+(0.1443)Ile;0.816,0.83
9,0.720,0.676,0.723,0.819,0.759,0.744,(2.5994)+(0.0487)Ser+(-0.0032)G
ly+(-0.1460)His+(-0.0178)Arg+(-0.0006)Pro+(0.0575)Ile;0.816,0.851,0.8
40,0.849,0.846,0.803,0.828,0.831,(4.4143)+(-0.0213)Asn+(0.0057)Tyr+(-
0.0059)Val+(-0.1823)Met+(0.1183)Phe+(-0.1340)Trp;0.816,0.843,0.806,0.
792,0.825,0.846,0.775,0.809,(8.5934)+(-0.0654)His+(-0.0028)Ala+(-0.08
61)Cit+(0.0031)Arg+(0.0618)Orn+(-0.1079)Trp;0.816,0.842,0.738,0.702,0
.744,0.837,0.753,0.759,(2.3814)+(0.0344)Ser+(0.0055)Gln+(-0.1627)His+
(0.0151)Orn+(-0.0123)Lys+(0.0220)Leu;0.816,0.845,0.803,0.793,0.810,0.
819,0.802,0.806,(8.0390)+(-0.0845)His+(0.0091)Pro+(0.0034)Val+(-0.095
6)Met+(0.0138)Lys+(-0.1095)Trp;0.816,0.845,0.833,0.850,0.833,0.848,0.
776,0.827,(5.8448)+(-0.0697)Asn+(0.0064)Gln+(0.0241)Thr+(-0.0015)Ala+
(-0.1362)Met+(-0.1416)Trp;0.816,0.843,0.800,0.790,0.798,0.822,0.814,0
.806,(8.0580)+(-0.0898)His+(-0.0043)Ala+(0.0100)Pro+(0.0050)Val+(0.00

90)Lys+(-0.1109)Trp;0.816,0.844,0.749,0.723,0.713,0.808,0.850,0.773,(3.9321)+(-0.1077)His+(-0.0318)Val+(-0.0054)Lys+(0.1305)Ile+(-0.0166)Leu+(0.0695)Phe;0.816,0.842,0.813,0.805,0.841,0.836,0.761,0.811,(8.0102)+(-0.0500)Asn+(-0.1079)Cit+(0.0002)Tyr+(0.0586)Orn+(-0.0004)Lys+(-0.1440)Trp;0.816,0.842,0.814,0.806,0.842,0.838,0.762,0.812,(8.0466)+(-0.0516)Asn+(-0.1071)Cit+(0.0007)Tyr+(-0.0010)Val+(0.0590)Orn+(-0.1424)Trp;0.816,0.848,0.748,0.721,
0.761,0.822,0.742,0.762,(5.7016)+(0.0040)Gly+(-0.1289)His+(0.0335)Thr+(-0.0111)Arg+(-0.2463)Met+(0.0722)Ile;0.816,0.842,0.769,0.758,0.730,0.838,0.832,0.789,(5.8998)+(-0.1044)His+(0.0117)Thr+(-0.0065)Ala+(-0.0243)Tyr+(0.1225)Ile+(-0.0434)Leu;0.816,0.842,0.811,0.799,0.840,0.832,0.769,0.810,(7.6746)+(-0.0350)Asn+(-0.1053)Cit+(-0.0483)Met+(0.0544)Orn+(0.0108)Leu+(-0.1496)Trp;0.816,0.839,0.770,0.746,0.724,0.849,0.869,0.797,(5.9458)+(-0.0713)His+(-0.0092)Ala+(-0.0489)Cit+(0.0068)Pro+(-0.0368)Val+(0.1488)Ile;0.816,0.853,0.840,0.853,0.844,0.805,0.824,0.832,(3.2042)+(-0.0851)Asn+(0.0064)Gln+(-0.0171)Arg+(0.0102)Orn+(0.0746)Phe+(-0.1601)Trp;0.816,0.848,0.833,0.838,0.833,0.823,0.826,0.830,(5.7549)+(-0.0395)Asn+(-0.0042)Ala+(-0.0797)Cit+(-0.0096)Tyr+(0.1100)Phe+(-0.1499)Trp;0.816,0.843,0.804,0.798,0.830,0.829,0.751,0.802,(5.5586)+(0.0032)Gln+(-0.1155)Cit+(0.0051)Pro+(-0.0011)Val+(0.0480)Orn+(-0.1676)Trp;0.816,0.843,0.801,0.794,0.829,0.829,0.744,0.799,(5.4356)+(0.0009)Gly+(0.0031)Gln+(-0.1171)Cit+(0.0049)Pro+(0.0473)Orn+(-0.1694)Trp;0.816,0.854,0.811,0.813,0.825,0.780,0.798,0.804,(4.6793)+(-0.1026)Asn+(0.0170)Thr+(0.0009)Pro+(0.0026)Orn+(0.0731)Phe+(-0.1631)Trp;0.816,0.852,0.818,0.823,0.823,0.853,0.769,0.817,(2.9307)+(0.0340)Ser+(0.0028)Gln+(0.0316)Tyr+(-0.2086)Met+(0.0033)Lys+(-0.1484)Trp;0.816,0.848,0.750,0.720,0.759,0.825,0.759,0.766,(5.4537)+(0.0035)Gly+(-0.1302)His+(0.0306)Thr+(-0.0038)Tyr+(-0.2467)Met+(0.0728)Ile;0.816,0.847,0.795,0

.794,0.790,0.840,0.774,0.799,(4.4013)+(0.0375)Ser+(-0.1075)Asn+(0.0086)Thr+(-0.0039)Ala+(0.0183)Leu+(-0.1445)Trp;0.816,0.845,0.794,0.783,0.815,0.830,0.754,0.795,(8.5844)+(-0.0905)His+(0.0241)Thr+(-0.0419)Cit+(-0.0052)Arg+(0.0085)Val+(-0.1223)Trp;0.816,0.848,0.785,0.774,0.800,0.820,0.755,0.787,(7.8267)+(0.0024)Gly+(-0.0916)His+(-0.0089)Arg+(0.0067)Pro+(0.0344)Orn+(-0.1008)Trp;0.816,0.846,0.810,0.812,0.810,0.835,0.788,0.811,(5.4855)+(0.0451)Ser+(-0.1060)Asn+(-0.0077)Gly+(0.0101)Thr+(-0.0000)Lys+(-0.1404)Trp;0.816,0.844,0.799,0.780,0.802,0.823,0.831,0.809,(8.2279)+(-0.0915)His+(-0.0047)Ala+(0.0085)Pro+(0.0105)Tyr+(0.0226)Leu+(-0.1143)Trp;0.816,0.847,0.796,0.793,0.809,0.835,0.746,0.796,(8.6377)+(-0.0872)His+(0.0239)Thr+(-0.0320)Cit+(-0.0110)Arg+(0.0070)Lys+(-0.1144)Trp;0.816,0.846,0.811,0.815,0.823,0.799,0.786,0.806,(2.7895)+(0.0023)Gly+(0.0041)Gln+(-0.0977)Cit+(-0.0020)Val+(0.0915)Phe+(-0.1782)Trp;0.816,0.845,0.821,0.823,0.850,0.848,0.737,0.814,(7.6825)+(0.0284)Thr+(-0.0619)Cit+(-0.0041)Arg+(0.0227)Tyr+(-0.1784)Met+(-0.1476)Trp;0.816,0.843,0.776,0.747,0.758,0.859,0.830,0.798,(5.9168)+(-0.0848)His+(-0.0092)Ala+(-0.0845)Cit+(0.0458)Orn+(0.1348)Ile+(-0.0560)Leu;0.816,0.844,0.822,0.820,0.844,0.849,0.763,0.819,(5.5448)+(0.0053)Gln+(-0.1045)Cit+(0.0015)Val+(-0.0989)Met+(0.0488)Orn+(-0.1504)Trp;0.816,0.843,0.789,0.782,0.815,0.836,0.719,0.788,(4.7841)+(0.0317)Ser+(0.0053)Thr+(-0.0816)Cit+(0.0075)Val+(-0.0071)Lys+(-0.1616)Trp;0.816,0.842,0.714,0.693,0.711,0.789,0.721,0.728,(0.9337)+(0.0455)Ser+(-0.1471)His+(-0.0360)Cit+(0.0052)Pro+(-0.0502)Tyr+(0.1167)Phe;0.816,0.841,0.716,0.663,0.716,0.820,0.778,0.745,(2.3142)+(0.0440)Ser+(-0.0040)Gly+(-0.1551)His+(-0.0022)Pro+(0.0091)Orn+(0.0541)Ile;0.816,0.839,0.806,0.802,0.829,0.842,0.744,0.804,(7.1299)+(0.0023)Gly+(-0.0048)Ala+(-0.1146)Cit+(-0.0014)Arg+(0.0609)Orn+(-0.1450)Trp;0.816,0.848,0.754,0.719,0.762,0.825,0.777,0.771,(5.4528)+(0.0254)Asn+(-0.1322)His+(0.0319)Thr+(0.

0005)Pro+(-0.2722)Met+(0.0716)Ile;0.816,0.849,0.785,0.767,0.755,0.866,0.838,0.807,(4.3053)+(0.0049)Gly+(-0.0483)Cit+(0.0215)Tyr+(-0.0543)Val+(-0.3015)Met+(0.1922)Ile;0.816,0.848,0.788,0.795,0.784,0.824,0.749,0.788,(4.4821)+(0.0397)Ser+(-0.1108)Asn+(0.0082)Pro+(-0.0046)Tyr+(0.0021)Lys+(-0.1359)Trp;0.816,0.846,0.810,0.812,0.809,0.835,0.787,0.811,(5.5464)+(0.0449)Ser+(-0.1050)Asn+(-0.0078)Gly+(0.0105)Thr+(-0.0026)Tyr+(-0.1395)Trp;0.816,0.845,0.824,0.832,0.833,0.793,0.806,0.816,(3.7802)+(-0.0222)Asn+(0.0026)Gly+(-0.1890)Met+(0.0025)Leu+(0.1108)Phe+(-0.1419)Trp;0.816,0.843,0.803,0.789,0.827,0.841,0.766,0.806,(8.7312)+(-0.0165)Asn+(-0.0637)His+(-0.0802)Cit+(-0.0074)Met+(0.0597)Orn+(-0.1094)Trp;0.816,0.843,0.793,0.781,0.733,0.867,0.895,0.819,(5.9553)+(-0.0877)Asn+(-0.0084)Ala+(-0.0590)Cit+(0.0036)Arg+(-0.0510)Val+(0.1818)Ile;0.816,0.845,0.818,0.815,0.799,0.835,0.851,0.825,(3.9025)+(0.0006)Gly+(0.0054)Gln+(-0.0056)Ala+(-0.1668)Met+(0.0742)Ile+(-0.1460)Trp;0.816,0.844,0.807,0.803,0.804,0.824,0.810,0.810,(8.1798)+(-0.0789)His+(-0.0030)Ala+(0.0125)Pro+(-0.0871)Met+(0.0150)Lys+(-0.1047)Trp;0.816,0.842,0.798,0.795,0.796,0.830,0.789,0.803,(8.0925)+(0.0031)Gly+(-0.0835)His+(-0.0040)Ala+(0.0106)Pro+(0.0150)Tyr+(-0.1023)Trp;0.816,0.846,0.759,0.744,0.733,0.807,0.814,0.775,(2.0707)+(0.0078)Gln+(-0.1626)His+(-0.0504)Tyr+(0.0095)Orn+(0.0337)Ile+(0.0761)Phe;0.816,0.846,0.791,0.775,0.809,0.819,0.775,0.795,(4.4830)+(0.0420)Ser+(-0.0047)Gly+(-0.0739)Cit+(-0.0096)Lys+(0.0234)Leu+(-0.1632)Trp;0.816,0.839,0.767,0.746,0.724,0.854,0.848,0.793,(5.4651)+(0.0038)Gly+(-0.0767)His+(-0.0077)Ala+(-0.0513)Cit+(-0.0341)Val+(0.1495)Ile;0.816,0.839,0.764,0.748,0.713,0.837,0.862,0.790,(5.8049)+(-0.0821)His+(-0.0073)Ala+(0.0054)Pro+(-0.0134)Tyr+(-0.0355)Val+(0.1411)Ile;0.816,0.838,0.758,0.741,0.689,0.863,0.875,0.792,(1.2609)+(0.0312)Ser+(-0.0043)Gly+(-0.0124)Ala+(-0.0717)Cit+(-0.0482)Val+(0.1788)Ile;0.816,0.855,0.840,0.850,0.843,0.799,0.835,

0.832,(1.5897)+(0.0062)Gln+(0.0036)Tyr+(-0.2497)Met+(0.0016)Leu+(0.1101)Phe+(-0.1504)Trp;0.816,0.853,0.837,0.860,0.828,0.794,0.825,0.827,(2.9925)+(-0.0779)Asn+(0.0070)Gln+(-0.0135)Arg+(-0.0277)Tyr+(0.0937)Phe+(-0.1522)Trp;0.816,0.852,0.809,0.798,0.790,0.816,0.872,0.819,(3.8984)+(-0.0089)Ala+(0.0010)Orn+(-0.0086)Lys+(0.0610)Ile+(0.0622)Phe+(-0.1636)Trp;0.816,0.852,0.812,0.822,0.792,0.793,0.837,0.811,(3.6634)+(0.0003)Gly+(-0.0078)Ala+(0.0097)Pro+(-0.0058)Val+(0.0877)Phe+(-0.1562)Trp;0.816,0.851,0.826,0.841,0.826,0.789,0.817,0.818,(4.4883)+(-0.0866)Asn+(0.0022)Gly+(-0.0092)Val+(0.0054)Lys+(0.0934)Phe+(-0.1441)Trp;0.816,0.849,0.829,0.842,0.823,0.847,0.793,0.827,(3.8066)+(0.0433)Ser+(-0.0081)Gly+(0.0043)Gln+(-0.0116)Arg+(-0.1362)Met+(-0.1341)Trp;0.816,0.849,0.790,0.782,0.807,0.823,0.754,0.792,(4.7354)+(0.0409)Ser+(-0.0054)Gly+(-0.0678)Cit+(-0.0091)Arg+(0.0098)Pro+(-0.1597)Trp;0.816,0.839,0.788,0.774,0.822,0.815,0.732,0.786,(6.0798)+(0.0023)Gly+(-0.1186)Cit+(0.0043)Pro+(0.0490)Orn+(0.0087)Leu+(-0.1717)Trp;0.816,0.849,0.810,0.815,0.797,0.848,0.798,0.815,(3.4298)+(0.0375)Ser+(-0.1130)Asn+(0.0036)Gln+(-0.0036)Ala+(0.0177)Leu+(-0.1427)Trp;0.816,0.849,0.796,0.824,0.778,0.756,0.791,0.787,(2.5737)+(0.0028)Gln+(0.0057)Pro+(-0.0402)Tyr+(-0.0077)Val+(0.0978)Phe+(-0.1579)Trp;0.816,0.848,0.813,0.828,0.808,0.845,0.761,0.811,(4.2990)+(0.0321)Ser+(-0.1227)Asn+(0.0038)Gln+(0.0071)Thr+(-0.0005)Val+(-0.1390)Trp;0.816,0.846,0.795,0.774,0.804,0.828,0.808,0.804,(8.1492)+(-0.0987)His+(-0.0028)Ala+(-0.0030)Arg+(0.0341)Orn+(0.0217)Leu+(-0.1097)Trp;0.816,0.845,0.794,0.783,0.751,0.864,0.864,0.816,(3.0016)+(0.0040)Gln+(0.0168)Tyr+(-0.0512)Val+(-0.3314)Met+(0.2041)Ile+(-0.0162)Leu;0.816,0.844,0.781,0.763,0.774,0.817,0.819,0.793,(2.5284)+(-0.1008)Asn+(0.0102)Gln+(-0.1644)His+(0.0144)Thr+(0.0052)Orn+(0.0768)Phe;0.816,0.844,0.804,0.787,0.813,0.818,0.821,0.810,(6.9113)+(-0.0275)Asn+(-0.0769)Cit+(0.0020)Pro+(-0.0035)Lys+(0.0618)Ile+(-0.1

613)Trp;0.816,0.842,0.797,0.779,0.797,0.823,0.825,0.806,(8.2585)+(0.0030)Asn+(-0.0900)His+(-0.0044)Ala+(0.0091)Pro+(0.0229)Leu+(-0.1113)Trp;0.816,0.847,0.762,0.739,0.740,0.803,0.840,0.781,(4.1303)+(-0.0379)Asn+(-0.1137)His+(-0.0001)Lys+(0.1067)Ile+(-0.0581)Leu+(0.0759)Phe;0.816,0.846,0.843,0.851,0.845,0.847,0.814,0.839,(5.8625)+(-0.0576)Asn+(0.0088)Gln+(-0.0713)Cit+(0.0101)Pro+(-0.0866)Met+(-0.1408)Trp;0.816,0.846,0.788,0.775,0.803,0.815,0.773,0.791,(7.8656)+(-0.0947)His+(-0.0123)Arg+(0.0063)Pro+(0.0317)Orn+(0.0089)Lys+(-0.1094)Trp;0.816,0.846,0.816,0.834,0.814,0.852,0.745,0.811,(3.6159)+(0.0326)Ser+(0.0038)Gln+(-0.0002)Ala+(-0.0114)Arg+(-0.1348)Met+(-0.1337)Trp;0.816,0.842,0.801,0.792,0.783,0.868,0.811,0.813,(3.4777)+(0.0410)Ser+(-0.0847)Asn+(-0.0055)Gly+(0.0089)Gln+(-0.1305)His+(-0.0012)Ala;0.816,0.840,0.781,0.763,0.791,0.814,0.784,0.788,(7.6977)+(-0.0087)Asn+(0.0040)Gly+(-0.0986)His+(0.0054)Pro+(0.0225)Leu+(-0.1114)Trp;0.816,0.840,0.784,0.775,0.792,0.808,0.775,0.788,(7.4318)+(0.0031)Gly+(-0.0988)His+(0.0063)Pro+(0.0050)Val+(0.0081)Lys+(-0.1119)Trp;0.816,0.839,0.708,0.670,0.703,0.802,0.753,0.732,(0.8464)+(0.0422)Ser+(-0.1634)His+(0.0013)Thr+(-0.0160)Val+(0.0271)Leu+(0.0858)Phe;0.816,0.840,0.775,0.750,0.748,0.845,0.845,0.797,(3.4421)+(0.0075)Gln+(-0.1519)His+(0.0059)Thr+(-0.0071)Ala+(0.0016)Pro+(0.0539)Ile;0.816,0.850,0.808,0.813,0.819,0.772,0.796,0.800,(3.0499)+(0.0023)Gly+(0.0076)Pro+(-0.2469)Met+(0.0050)Lys+(0.1089)Phe+(-0.1478)Trp;0.816,0.850,0.814,0.818,0.824,0.780,0.806,0.807,(3.6689)+(0.0073)Pro+(-0.2269)Met+(0.0086)Orn+(-0.0020)Leu+(0.1055)Phe+(-0.1422)Trp;0.816,0.847,0.825,0.821,0.838,0.804,0.822,0.821,(5.5569)+(-0.0559)Asn+(-0.0863)Cit+(0.0062)Arg+(0.0032)Leu+(0.0914)Phe+(-0.1629)Trp;0.816,0.841,0.760,0.736,0.728,0.841,0.830,0.784,(6.6606)+(-0.0937)Asn+(-0.0746)His+(0.0206)Thr+(-0.0375)Cit+(-0.0413)Val+(0.1436)Ile;0.816,0.839,0.726,0.691,0.723,0.814,0.764,0.748,(3.0782)+(0.0491)Ser+(-0.00

42)Gly+(-0.1370)His+(-0.0159)Arg+(-0.0240)Tyr+(0.0619)Ile;0.816,0.851,0.828,0.849,0.816,0.786,0.824,0.819,(3.0916)+(-0.0905)Asn+(0.0059)Gln+(-0.0314)Tyr+(0.0086)Orn+(0.0857)Phe+(-0.1500)Trp;0.816,0.849,0.828,0.839,0.835,0.801,0.804,0.820,(4.0573)+(-0.0073)Arg+(-0.0079)Val+(-0.1905)Met+(0.0208)Orn+(0.1139)Phe+(-0.1310)Trp;0.816,0.849,0.818,0.822,0.829,0.781,0.810,0.810,(3.9223)+(-0.0045)Arg+(0.0080)Pro+(-0.2164)Met+(-0.0009)Leu+(0.1094)Phe+(-0.1434)Trp;0.816,0.847,0.781,0.762,0.745,0.852,0.855,0.803,(4.1265)+(0.0013)Pro+(0.0128)Tyr+(-0.0582)Val+(-0.3158)Met+(0.0238)Orn+(0.1902)Ile;0.816,0.844,0.776,0.775,0.725,0.872,0.814,0.796,(1.6918)+(0.0427)Ser+(-0.0954)Asn+(-0.0095)Ala+(-0.0267)Arg+(0.1853)Ile+(-0.0865)Leu;0.816,0.842,0.815,0.823,0.839,0.837,0.727,0.806,(7.5884)+(-0.0003)Gly+(0.0272)Thr+(-0.0623)Cit+(-0.1581)Met+(0.0037)Lys+(-0.1434)Trp;0.816,0.855,0.839,0.850,0.843,0.796,0.832,0.830,(1.5507)+(0.0061)Gln+(0.0035)Tyr+(-0.2528)Met+(0.0020)Lys+(0.1105)Phe+(-0.1507)Trp;0.816,0.849,0.794,0.780,0.753,0.859,0.873,0.816,(5.6977)+(-0.0365)Asn+(-0.0461)C

it+(0.0086)Arg+(-0.0528)Val+(-0.2289)Met+(0.1864)Ile;0.816,0.844,0.777,0.763,0.738,0.849,0.845,0.799,(4.2940)+(0.0012)Pro+(-0.0526)Val+(-0.2891)Met+(0.0243)Orn+(0.1986)Ile+(-0.0148)Leu;0.816,0.844,0.761,0.758,0.745,0.794,0.779,0.769,(2.5946)+(0.0075)Gln+(-0.1637)His+(0.0180)Thr+(-0.0498)Tyr+(-0.0088)Lys+(0.1067)Phe;0.816,0.843,0.724,0.694,0.733,0.811,0.722,0.740,(1.0091)+(0.0460)Ser+(-0.1567)His+(-0.0243)Arg+(-0.0057)Val+(0.0186)Orn+(0.1043)Phe;0.816,0.843,0.716,0.677,0.711,0.818,0.754,0.740,(2.8948)+(0.0412)Ser+(-0.1394)His+(0.0030)Thr+(-0.0188)Tyr+(-0.0107)Lys+(0.0667)Ile;0.816,0.842,0.791,0.785,0.744,0.857,0.858,0.811,(3.0958)+(0.0007)Gly+(0.0032)Gln+(-0.0558)Val+(-0.3241)Met+(0.0054)Lys+(0.1908)Ile;0.816,0.842,0.818,0.828,0.839,0.843,0.732,0.811,(7.6576)+(0.0272)Thr+(-0.0016)Ala+(-0.0628)Cit+(-0.1476)Met+(0.0037)

Lys+(-0.1410)Trp;0.816,0.848,0.811,0.792,0.820,0.822,0.832,0.817,(6.5541)+(-0.0108)Asn+(-0.0723)Cit+(0.0109)Arg+(-0.1158)Met+(0.0689)Ile+(-0.1528)Trp;0.816,0.847,0.808,0.790,0.820,0.819,0.823,0.813,(6.7626)+(-0.0049)Asn+(-0.0669)Cit+(0.0040)Pro+(-0.1143)Met+(0.0648)Ile+(-0.1523)Trp;0.816,0.847,0.786,0.762,0.803,0.815,0.792,0.793,(7.8950)+(-0.1003)His+(-0.0054)Arg+(0.0042)Pro+(0.0308)Orn+(0.0173)Leu+(-0.1130)Trp;0.816,0.846,0.763,0.739,0.760,0.785,0.820,0.776,(1.7093)+(0.0430)Ser+(-0.0073)Gly+(-0.0071)Thr+(-0.0019)Orn+(0.0538)Ile+(-0.1725)Trp;0.816,0.845,0.810,0.822,0.812,0.833,0.757,0.806,(7.4182)+(-0.0421)Asn+(0.0257)Thr+(-0.0042)Ala+(0.0111)Pro+(-0.1478)Met+(-0.1341)Trp;0.816,0.841,0.721,0.685,0.729,0.812,0.737,0.741,(1.2954)+(0.0486)Ser+(-0.1515)His+(-0.0362)Cit+(0.0027)Pro+(-0.0136)Lys+(0.1048)Phe;0.816,0.841,0.782,0.770,0.761,0.832,0.821,0.796,(2.6782)+(0.0081)Gln+(-0.1651)His+(0.0124)Thr+(-0.0045)Ala+(-0.0092)Lys+(0.0843)Phe;0.816,0.849,0.795,0.812,0.798,0.766,0.767,0.786,(4.7139)+(-0.0990)Asn+(0.0227)Thr+(-0.0429)Tyr+(0.0042)Orn+(0.0949)Phe+(-0.1519)Trp;0.816,0.847,0.753,0.739,0.747,0.795,0.773,0.763,(2.2322)+(0.0346)Ser+(-0.0011)Thr+(-0.0147)Tyr+(-0.0132)Lys+(0.0650)Ile+(-0.1569)Trp;0.816,0.849,0.741,0.711,0.756,0.835,0.722,0.756,(3.6057)+(0.0412)Ser+(-0.1394)His+(0.0219)Thr+(-0.0018)Ala+(-0.2272)Met+(0.0346)Leu;0.816,0.847,0.761,0.747,0.752,0.784,0.804,0.772,(2.5802)+(0.0410)Ser+(-0.0082)Gly+(-0.0005)Gln+(-0.0270)Tyr+(0.0561)Ile+(-0.1646)Trp;0.816,0.845,0.792,0.790,0.811,0.784,0.761,0.787,(3.9352)+(0.0038)Gly+(-0.0958)Cit+(0.0062)Pro+(-0.0036)Val+(0.0935)Phe+(-0.1730)Trp;0.816,0.842,0.806,0.793,0.825,0.845,0.772,0.809,(8.6985)+(-0.0644)His+(-0.0027)Ala+(-0.0838)Cit+(-0.0032)Met+(0.0621)Orn+(-0.1072)Trp;0.816,0.850,0.800,0.812,0.801,0.836,0.738,0.797,(3.1679)+(0.0326)Ser+(0.0021)Gln+(0.0022)Val+(-0.1653)Met+(0.0182)Orn+(-0.1410)Trp;0.816,0.850,0.766,0.746,0.768,0.798,0.789,0.776,(2.4670)+(0.

0447)Ser+(-0.0072)Gly+(-0.0247)Arg+(0.0003)Pro+(0.0566)Ile+(-0.1712)Trp;0.816,0.848,0.754,0.725,0.763,0.847,0.748,0.771,(3.7839)+(0.0483)Ser+(-0.0045)Gly+(-0.1188)His+(0.0110)Pro+(-0.1701)Met+(0.0262)Orn;0.816,0.846,0.803,0.801,0.805,0.843,0.774,0.806,(8.5454)+(0.0045)Gly+(-0.0640)His+(-0.0042)Ala+(-0.0477)Cit+(0.0137)Pro+(-0.1042)Trp;0.816,0.845,0.790,0.771,0.780,0.830,0.834,0.804,(2.0342)+(-0.0618)Asn+(0.0128)Gln+(-0.1632)His+(-0.0191)Arg+(0.0293)Ile+(0.0614)Phe;0.816,0.845,0.805,0.801,0.836,0.820,0.737,0.799,(7.0904)+(0.0298)Thr+(-0.0694)Cit+(-0.0013)Arg+(-0.1828)Met+(0.0211)Leu+(-0.1553)Trp;0.816,0.845,0.791,0.784,0.812,0.825,0.742,0.791,(3.6383)+(0.0308)Ser+(0.0023)Gln+(-0.0792)Cit+(-0.0079)Arg+(0.0179)Leu+(-0.1724)Trp;0.816,0.844,0.792,0.778,0.803,0.825,0.780,0.797,(6.2121)+(-0.0456)Asn+(0.0055)Gly+(-0.0851)Cit+(0.0020)Tyr+(0.0645)Ile+(-0.1629)Trp;0.816,0.844,0.796,0.788,0.743,0.865,0.877,0.818,(5.0517)+(-0.0056)Ala+(-0.0036)Arg+(-0.0466)Val+(-0.2226)Met+(0.2099)Ile+(-0.0205)Leu;0.816,0.842,0.817,0.823,0.841,0.842,0.736,0.810,(7.6471)+(0.0277)Thr+(-0.0026)Ala+(-0.0696)Cit+(0.0060)Val+(-0.1393)Met+(-0.1460)Trp;0.816,0.849,0.799,0.786,0.811,0.826,0.788,0.803,(7.9884)+(-0.0829)His+(0.0074)Pro+(0.0100)Tyr+(-0.0725)Met+(0.0327)Orn+(-0.1011)Trp;0.816,0.848,0.794,0.781,0.754,0.856,0.864,0.814,(4.8119)+(-0.0416)Cit+(0.0017)Arg+(-0.0549)Val+(-0.2850)Met+(0.0075)Lys+(0.1894)Ile;0.816,0.848,0.782,0.765,0.745,0.854,0.854,0.804,(3.9651)+(0.0130)Tyr+(-0.0592)Val+(-0.3249)Met+(0.0223)Orn+(0.0037)Lys+(0.1926)Ile;0.816,0.847,0.791,0.762,0.820,0.831,0.777,0.797,(8.1372)+(-0.0812)His+(-0.0776)Cit+(0.0011)Tyr+(0.0529)Orn+(0.0192)Leu+(-0.1265)Trp;0.816,0.846,0.786,0.771,0.747,0.856,0.853,0.807,(3.7324)+(0.0027)Gly+(0.0197)Tyr+(-0.0589)Val+(-0.3419)Met+(0.0068)Lys+(0.1969)Ile;0.816,0.843,0.796,0.775,0.824,0.832,0.767,0.800,(8.2180)+(-0.0761)His+(-0.0820)Cit+(0.0035)Arg+(0.0053)Val+(0.0548)Orn+(-0.1195)Trp;0.816,0.8

39,0.760,0.737,0.724,0.836,0.838,0.784,(6.5064)+(-0.0952)Asn+(-0.0828)His+(0.0200)Thr+(-0.0029)Pro+(-0.0411)Val+(0.1445)Ile;0.816,0.839,0.766,0.745,0.718,0.839,0.868,0.792,(5.6240)+(-0.0849)His+(-0.0076)Ala+(0.0047)Pro+(-0.0360)Val+(-0.0007)Lys+(0.1411)Ile;0.816,0.844,0.732,0.697,0.725,0.833,0.769,0.756,(1.0526)+(0.0465)Ser+(-0.1528)His+(-0.0059)Ala+(-0.0397)Cit+(0.0099)Leu+(0.0930)Phe;0.816,0.854,0.828,0.840,0.829,0.798,0.820,0.821,(4.8648)+(-0.0885)Asn+(-0.0112)Val+(0.0196)Orn+(0.0039)Lys+(0.0846)Phe+(-0.1386)Trp;0.816,0.854,0.817,0.826,0.809,0.787,0.832,0.813,(2.8299)+(0.0039)Gln+(-0.0215)Arg+(-0.0251)Val+(0.0388)Leu+(0.0847)Phe+(-0.1730)Trp;0.816,0.846,0.753,0.738,0.763,0.847,0.703,0.763,(4.4816)+(0.0410)Ser+(-0.0327)Asn+(-0.1130)His+(0.0153)Thr+(0.0114)Pro+(-0.1778)Met;0.816,0.844,0.801,0.795,0.782,0.828,0.836,0.810,(2.6288)+(-0.0861)Asn+(0.0114)Gln+(-0.1497)His+(0.0018)Pro+(-0.0072)Val+(0.0893)Phe;0.816,0.843,0.752,0.727,0.747,0.852,0.756,0.771,(4.4102)+(0.0417)Ser+(-0.0716)Asn+(-0.1184)His+(-0.0059)Ala+(0.0116)Pro+(0.0264)Orn;0.816,0.843,0.805,0.797,0.817,0.840,0.778,0.808,(4.7091)+(0.0384)Ser+(-0.0045)Gly+(-0.0036)Ala+(-0.0727)Cit+(0.0080)Val+(-0.1551)Trp;0.816,0.842,0.768,0.749,0.760,0.844,0.778,0.783,(2.6001)+(0.0378)Ser+(-0.0910)Asn+(0.0081)Gln+(-0.1491)His+(-0.0097)Tyr+(0.0212)Leu;0.816,0.851,0.804,0.810,0.791,0.790,0.826,0.804,(3.5889)+(-0.0012)Gly+(0.0097)Thr+(-0.0090)Ala+(0.0076)Pro+(0.0771)Phe+(-0.1688)Trp;0.816,0.850,0.823,0.834,0.825,0.805,0.803,0.817,(2.9383)+(0.0063)Gln+(-0.0959)Cit+(-0.0292)Tyr+(-0.0068)Lys+(0.1094)Phe+(-0.1658)Trp;0.816,0.849,0.804,0.812,0.810,0.803,0.773,0.800,(4.4992)+(0.0226)Thr+(-0.0058)Ala+(-0.0940)Cit+(-0.0303)Tyr+(0.1159)Phe+(-0.1721)Trp;0.816,0.847,0.779,0.765,0.740,0.849,0.848,0.800,(4.0868)+(0.0021)Pro+(-0.0580)Val+(-0.3099)Met+(0.0218)Orn+(0.0044)Lys+(0.1879)Ile;0.816,0.846,0.802,0.805,0.817,0.854,0.727,0.801,(5.3494)+(0.0284)Ser+(0.0093)Thr+(-0.0028

)Ala+(-0.0680)Cit+(-0.0068)Arg+(-0.1486)Trp;0.816,0.846,0.760,0.734,0.758,0.785,0.817,0.774,(1.8768)+(0.0437)Ser+(-0.0072)Gly+(-0.0008)Gln+(-0.0069)Thr+(0.0537)Ile+(-0.1715)Trp;0.816,0.840,0.790,0.785,0.743,0.862,0.852,0.810,(3.2085)+(0.0006)Gly+(0.0037)Gln+(-0.0488)Val+(-0.3016)Met+(0.2023)Ile+(-0.0183)Leu;0.816,0.854,0.786,0.773,0.791,0.766,0.823,0.788,(2.6465)+(0.0022)Gln+(0.0066)Thr+(-0.0151)Lys+(0.0467)Ile+(0.0546)Phe+(-0.1832)Trp;0.816,0.848,0.797,0.798,0.810,0.845,0.737,0.797,(8.7551)+(0.0015)Gly+(-0.0822)His+(0.0246)Thr+(-0.0375)Cit+(-0.0069)Arg+(-0.1102)Trp;0.816,0.845,0.831,0.847,0.835,0.843,0.770,0.824,(5.8063)+(-0.0711)Asn+(0.0064)Gln+(0.0239)Thr+(-0.0009)Val+(-0.1444)Met+(-0.1418)Trp;0.816,0.843,0.815,0.823,0.820,0.855,0.753,0.813,(4.4565)+(0.0277)Ser+(0.0030)Gln+(-0.0025)Ala+(-0.0723)Cit+(-0.0021)Lys+(-0.1461)Trp;0.816,0.853,0.805,0.813,0.806,0.769,0.809,0.799,(3.4828)+(-0.0000)Gly+(0.0043)Pro+(-0.0075)Val+(-0.0030)Lys+(0.0828)Phe+(-0.1623)Trp;0.816,0.845,0.806,0.788,0.811,0.829,0.828,0.814,(8.6990)+(-0.0729)His+(-0.0052)Ala+(-0.0446)Cit+(0.0110)Pro+(0.0246)Leu+(-0.1183)Trp;0.816,0.845,0.788,0.779,0.819,0.787,0.750,0.784,(3.8722)+(0.0021)Gly+(0.0125)Thr+(-0.1005)Cit+(0.0028)Leu+(0.0868)Phe+(-0.1876)Trp;0.816,0.847,0.750,0.729,0.748,0.794,0.776,0.762,(1.9907)+(0.0368)Ser+(-0.0006)Gln+(-0.0031)Thr+(-0.0139)Lys+(0.0641)Ile+(-0.1605)Trp;0.816,0.851,0.810,0.802,0.818,0.785,0.836,0.810,(3.6600)+(-0.0033)Arg+(-0.2291)Met+(-0.0007)Orn+(0.0530)Ile+(0.0877)Phe+(-0.1524)Trp;0.816,0.850,0.811,0.801,0.818,0.788,0.839,0.811,(3.6229)+(-0.0049)Asn+(0.0031)Tyr+(-0.2351)Met+(0.0525)Ile+(0.0861)Phe+(-0.1527)Trp;0.816,0.845,0.781,0.771,0.808,0.819,0.726,0.781,(4.2189)+(0.0318)Ser+(0.0046)Thr+(-0.0779)Cit+(-0.0077)Arg+(0.0181)Leu+(-0.1726)Trp;0.816,0.845,0.779,0.762,0.741,0.853,0.851,0.802,(4.1663)+(0.0118)Tyr+(-0.0540)Val+(-0.3067)Met+(0.0240)Orn+(0.2019)Ile+(-0.0140)Leu;0.816,0.840,0.814,0.808,0.837,0.84

7,0.761,0.813,(7.6049)+(-0.0038)Ala+(-0.1085)Cit+(-0.0384)Met+(0.0610)Orn+(-0.0006)Lys+(-0.1380)Trp;0.816,0.854,0.796,0.792,0.759,0.839,0.851,0.810,(0.0279)+(0.0173)Thr+(-0.0080)Ala+(-0.3391)Met+(0.1792)Ile+(-0.0917)Leu+(0.1115)Phe;0.816,0.850,0.823,0.830,0.824,0.863,0.778,0.823,(3.0877)+(0.0342)Ser+(0.0030)Gln+(-0.0014)Ala+(0.0338)Tyr+(-0.1924)Met+(-0.1446)Trp;0.816,0.848,0.748,0.715,0.761,0.822,0.755,0.763,(5.3152)+(0.0034)Gly+(-0.1335)His+(0.0290)Thr+(-0.2483)Met+(0.0104)Orn+(0.0694)Ile;0.816,0.844,0.808,0.790,0.829,0.848,0.782,0.812,(8.6112)+(-0.0663)His+(-0.0033)Ala+(-0.0850)Cit+(0.0118)Tyr+(0.0604)Orn+(-0.1121)Trp;0.816,0.841,0.755,0.741,0.699,0.859,0.835,0.783,(2.3474)+(0.0422)Ser+(-0.1939)Asn+(0.0015)Gln+(-0.0001)Pro+(-0.0564)Val+(0.1736)Ile;0.816,0.841,0.746,0.731,0.690,0.854,0.823,0.774,(2.7634)+(0.0416)Ser+(-0.1961)Asn+(0.0065)Thr+(-0.0004)Pro+(-0.0578)Val+(0.1773)Ile;0.816,0.841,0.795,0.787,0.735,0.871,0.888,0.820,(5.8855)+(-0.0749)Asn+(-0.0085)Ala+(-0.0591)Cit+(-0.0424)Val+(0.1984)Ile+(-0.0258)Leu;0.816,0.852,0.783,0.783,0.786,0.819,0.752,0.785,(3.8540)+(0.0406)Ser+(-0.1184)Asn+(0.0052)Pro+(0.0133)Orn+(0.0085)Leu+(-0.1424)Trp;0.816,0.844,0.765,0.747,0.764,0.847,0.759,0.779,(2.9634)+(0.0353)Ser+(-0.0973)Asn+(0.0072)Gln+(-0.1389)His+(0.0057)Pro+(0.0179)Orn;0.816,0.841,0.787,0.771,0.762,0.841,0.841,0.804,(3.6574)+(-0.0654)Asn+(0.0098)Gln+(-0.1286)His+(-0.0008)Lys+(0.0985)Ile+(-0.0386)Leu;0.816,0.855,0.756,0.741,0.746,0.866,0.739,0.773,(0.5511)+(0.0398)Ser+(0.0061)Thr+(-0.0759)Cit+(-0.3005)Met+(0.1740)Ile+(-0.0735)Leu;0.816,0.845,0.788,0.774,0.803,0.824,0.770,0.793,(7.5884)+(0.0027)Gly+(-0.1007)His+(0.0049)Tyr+(0.0053)Val+(0.0312)Orn+(-0.1063)Trp;0

.816,0.848,0.788,0.785,0.770,0.811,0.817,0.796,(4.9976)+(0.0032)Thr+(-0.0042)Pro+(-0.0024)Lys+(0.1442)Ile+(-0.0635)Leu+(-0.1459)Trp;0.816,0.847,0.788,0.783,0.772,0.809,0.820,0.796,(4.9541)+(-0.0043)Pro+(0.00

65)Orn+(-0.0019)Lys+(0.1446)Ile+(-0.0649)Leu+(-0.1437)Trp;0.816,0.840,0.756,0.732,0.721,0.835,0.836,0.781,(6.4783)+(-0.0985)Asn+(-0.0835)His+(0.0202)Thr+(-0.0438)Val+(0.1355)Ile+(0.0082)Leu;0.816,0.837,0.797,0.790,0.830,0.829,0.726,0.794,(6.9039)+(0.0021)Gly+(-0.1168)Cit+(0.0018)Val+(0.0573)Orn+(-0.0055)Lys+(-0.1546)Trp;0.816,0.852,0.807,0.817,0.788,0.793,0.830,0.807,(2.7486)+(0.0020)Gln+(0.0068)Thr+(-0.0091)Ala+(0.0073)Pro+(0.0767)Phe+(-0.1714)Trp;0.816,0.849,0.786,0.765,0.775,0.847,0.824,0.803,(2.9468)+(0.0026)Gly+(0.0104)Gln+(-0.1411)His+(-0.1988)Met+(0.0003)Lys+(0.0667)Ile;0.816,0.847,0.785,0.770,0.809,0.825,0.747,0.788,(4.3114)+(0.0360)Ser+(-0.0820)Cit+(0.0038)Tyr+(-0.0100)Lys+(0.0244)Leu+(-0.1663)Trp;0.816,0.845,0.791,0.760,0.786,0.834,0.854,0.808,(4.4110)+(-0.1195)His+(-0.0048)Ala+(-0.2088)Met+(0.0033)Lys+(0.0535)Ile+(0.0929)Phe;0.816,0.841,0.746,0.719,0.723,0.828,0.806,0.769,(5.7526)+(-0.0884)His+(-0.0664)Cit+(-0.0311)Tyr+(-0.0355)Val+(0.0498)Orn+(0.1299)Ile;0.816,0.850,0.793,0.798,0.788,0.820,0.770,0.794,(3.3235)+(0.0385)Ser+(-0.1273)Asn+(0.0032)Gln+(0.0054)Pro+(0.0099)Leu+(-0.1447)Trp;0.816,0.848,0.778,0.756,0.790,0.865,0.748,0.790,(3.3664)+(0.0350)Ser+(-0.0989)Asn+(0.0079)Gln+(-0.1260)His+(-0.0702)Cit+(0.0409)Orn;0.816,0.844,0.821,0.817,0.796,0.837,0.872,0.831,(4.5410)+(-0.0669)Asn+(0.0054)Gln+(-0.0084)Ala+(0.0048)Pro+(0.0593)Ile+(-0.1531)Trp;0.816,0.841,0.722,0.688,0.732,0.806,0.732,0.739,(1.1331)+(0.0494)Ser+(-0.0020)Gly+(-0.1635)His+(0.0055)Thr+(-0.0239)Arg+(0.0977)Phe;0.816,0.848,0.793,0.805,0.810,0.837,0.696,0.787,(4.7316)+(0.0320)Ser+(0.0187)Thr+(-0.0156)Arg+(0.0038)Val+(-0.1766)Met+(-0.1432)Trp;0.816,0.848,0.792,0.781,0.754,0.855,0.855,0.811,(4.8352)+(-0.0428)Cit+(-0.0484)Val+(-0.2770)Met+(0.0088)Lys+(0.2068)Ile+(-0.0236)Leu;0.816,0.845,0.799,0.803,0.803,0.841,0.750,0.799,(8.8134)+(0.0004)Gly+(-0.0896)His+(0.0255)Thr+(-0.0011)Ala+(-0.0123)Arg+(-0.1048)Trp;0.816,0.844,0.807,0.801,0.

793,0.870,0.805,0.817,(3.2927)+(0.0419)Ser+(-0.0613)Asn+(-0.0056)Gly+(0.0093)Gln+(-0.1244)His+(-0.0840)Met;0.816,0.842,0.791,0.779,0.810,0.824,0.758,0.793,(7.9756)+(0.0054)Gly+(-0.0804)His+(-0.0492)Cit+(0.0075)Pro+(0.0085)Val+(-0.1170)Trp;0.816,0.852,0.802,0.809,0.788,0.773,0.831,0.801,(3.8010)+(-0.0278)Tyr+(-0.0247)Val+(-0.0031)Lys+(0.0416)Leu+(0.0956)Phe+(-0.1607)Trp;0.816,0.847,0.790,0.777,0.805,0.818,0.775,0.794,(8.0648)+(-0.0919)His+(-0.0073)Arg+(0.0059)Pro+(0.0026)Val+(0.0335)Orn+(-0.1054)Trp;0.816,0.843,0.802,0.797,0.784,0.828,0.836,0.811,(2.5940)+(-0.0865)Asn+(0.0115)Gln+(-0.1505)His+(-0.0068)Val+(0.0007)Lys+(0.0906)Phe;0.816,0.841,0.812,0.800,0.818,0.835,0.816,0.817,(8.9382)+(-0.0680)His+(-0.0049)Ala+(-0.0451)Cit+(0.0117)Pro+(0.0083)Val+(-0.1133)Trp;0.816,0.841,0.717,0.672,0.722,0.826,0.744,0.741,(2.6693)+(0.0464)Ser+(-0.1405)His+(-0.0144)Arg+(-0.0004)Pro+(-0.0089)Lys+(0.0651)Ile;0.816,0.841,0.814,0.806,0.837,0.846,0.766,0.813,(7.5666)+(-0.0048)Ala+(-0.1147)Cit+(0.0058)Tyr+(0.0624)Orn+(-0.0034)Lys+(-0.1434)Trp;0.816,0.838,0.776,0.751,0.749,0.848,0.845,0.798,(3.2904)+(0.0014)Gly+(0.0078)Gln+(-0.1493)His+(-0.0071)Ala+(0.0023)Pro+(0.0547)Ile;0.816,0.848,0.796,0.803,0.799,0.828,0.750,0.795,(2.5416)+(0.0386)Ser+(0.0029)Gln+(-0.0098)Arg+(-0.1824)Met+(0.0222)Leu+(-0.1460)Trp;0.816,0.846,0.787,0.787,0.766,0.806,0.814,0.793,(5.3139)+(-0.0024)Pro+(-0.0178)Tyr+(0.0006)Lys+(0.1467)Ile+(-0.0652)Leu+(-0.1380)Trp;0.816,0.844,0.780,0.768,0.739,0.852,0.844,0.801,(4.0990)+(-0.0533)Val+(-0.3003)Met+(0.0220)Orn+(0.0047)Lys+(0.2029)Ile+(-0.0169)Leu;0.816,0.843,0.787,0.769,0.807,0.811,0.774,0.790,(6.0824)+(-0.1084)Cit+(-0.0021)Arg+(-0.0138)Tyr+(0.0419)Orn+(0.0521)Ile+(-0.1705)Trp;0.816,0.842,0.811,0.816,0.839,0.833,0.725,0.803,(7.5258)+(0.0001)Gly+(0.0274)Thr+(-0.0679)Cit+(0.0046)Val+(-0.1542)Met+(-0.1478)Trp;0.816,0.841,0.716,0.663,0.717,0.817,0.780,0.744,(2.1800)+(0.0458)Ser+(-0.0038)Gly+(-0.1525)His+(-0.0045)

Thr+(0.0102)Orn+(0.0518)Ile;0.816,0.840,0.793,0.783,0.824,0.823,0.730,0.790,(6.4256)+(0.0018)Gly+(-0.1152)Cit+(0.0057)Pro+(-0.0011)Val+(0.0518)Orn+(-0.1616)Trp;0.816,0.855,0.839,0.850,0.843,0.800,0.829,0.831,(1.6328)+(0.0060)Gln+(0.0027)Tyr+(-0.2481)Met+(0.0039)Orn+(0.1094)Phe+(-0.1488)Trp;0.816,0.855,0.840,0.849,0.840,0.804,0.843,0.834,(3.1831)+(-0.0972)Asn+(0.0057)Gln+(0.0068)Orn+(-0.0017)Lys+(0.0721)Phe+(-0.1589)Trp;0.816,0.853,0.821,0.827,0.819,0.795,0.830,0.818,(3.7005)+(-0.0052)Ala+(0.0110)Pro+(-0.2117)Met+(0.0054)Lys+(0.1078)Phe+(-0.1438)Trp;0.816,0.849,0.757,0.726,0.764,0.823,0.778,0.773,(5.8895)+(-0.1266)His+(0.0329)Thr+(0.0010)Pro+(-0.0098)Tyr+(-0.2379)Met+(0.0692)Ile;0.816,0.848,0.761,0.727,0.777,0.830,0.767,0.775,(6.1693)+(-0.1181)His+(0.0351)Thr+(-0.0385)Cit+(-0.0030)Arg+(-0.2474)Met+(0.0701)Ile;0.816,0.845,0.810,0.813,0.816,0.839,0.772,0.810,(5.7920)+(0.0454)Ser+(-0.0973)Asn+(-0.0077)Gly+(0.0132)Thr+(-0.0130)Arg+(-0.1391)Trp;0.816,0.842,0.793,0.783,0.733,0.866,0.893,0.819,(5.9793)+(-0.0852)Asn+(-0.0083)Ala+(-0.0558)Cit+(-0.0515)Val+(0.0007)Lys+(0.1822)Ile;0.816,0.840,0.784,0.768,0.746,0.871,0.844,0.807,(4.6126)+(-0.1672)Asn+(0.0051)Gln+(-0.0902)Cit+(-0.0568)Val+(0.0510)Orn+(0.1614)Ile;0.816,0.851,0.818,0.825,0.815,0.832,0.797,0.817,(3.2889)+(0.0441)Ser+(-0.0080)Gly+(0.0034)Gln+(0.0048)Val+(-0.1599)Met+(-0.1434)Trp;0.816,0.846,0.826,0.835,0.835,0.795,0.803,0.817,(3.8727)+(-0.0215)Asn+(0.0027)Gly+(-0.0025)Arg+(-0.1834)Met+(0.1133)Phe+(-0.1402)Trp;0.816,0.845,0.818,0.814,0.801,0.834,0.851,0.825,(3.9606)+(0.0053)Gln+(-0.0056)Ala+(-0.1663)Met+(0.0046)Orn+(0.0722)Ile+(-0.1461)Trp;0.816,0.844,0.817,0.821,0.809,0.841,0.808,0.820,(5.2731)+(0.0471)Ser+(-0.0931)Asn+(-0.0070)Gly+(-0.0012)Ala+(0.0028)Lys+(-0.1338)Trp;0.816,0.844,0.786,0.769,0.798,0.820,0.780,0.792,(5.8896)+(0.0046)Gly+(-0.0893)Cit+(0.0001)Tyr+(-0.0075)Lys+(0.0707)Ile+(-0.1661)Trp;0.816,0.843,0.795,0.778,0.795,0.820,0.825,0.804,(8.0

072)+(-0.0933)His+(-0.0046)Ala+(0.0090)Pro+(0.0064)Lys+(0.0202)Leu+(-0.1147)Trp;0.816,0.836,0.743,0.711,0.736,0.839,0.772,0.764,(2.5659)+(0.0349)Ser+(0.0055)Gln+(-0.1542)His+(-0.0147)Val+(-0.0106)Lys+(0.0459)Leu;0.816,0.846,0.754,0.734,0.751,0.798,0.779,0.766,(1.9104)+(0.0359)Ser+(-0.0027)Thr+(-0.0018)Pro+(-0.0141)Lys+(0.0660)Ile+(-0.1609)Trp;0.816,0.841,0.808,0.803,0.831,0.843,0.750,0.807,(6.9886)+(0.0024)Gly+(-0.0052)Ala+(-0.1164)Cit+(0.0057)Tyr+(0.0600)Orn+(-0.1478)Trp;0.816,0.840,0.771,0.754,0.742,0.838,0.830,0.791,(3.8252)+(0.0072)Gln+(-0.1470)His+(0.0092)Thr+(-0.0058)Ala+(-0.0227)Tyr+(0.0583)Ile;0.816,0.850,0.810,0.808,0.786,0.814,0.862,0.817,(4.4517)+(-0.0439)Asn+(-0.0074)Ala+(-0.0194)Tyr+(0.0540)Ile+(0.0710)Phe+(-0.1556)Trp;0.816,0.847,0.776,0.767,0.777,0.857,0.743,0.786,(2.6537)+(0.0374)Ser+(0.0078)Gln+(-0.1237)His+(-0.0375)Cit+(0.0125)Pro+(-0.1811)Met;0.816,0.842,0.811,0.816,0.839,0.831,0.727,0.803,(7.4367)+(0.0269)Thr+(-0.0672)Cit+(0.0042)Val+(-0.1590)Met+(0.0020)Lys+(-0.1483)Trp;0.816,0.847,0.797,0.796,0.770,0.814,0.845,0.806,(-1.3981)+(-0.0345)Asn+(0.0058)Gln+(-0.3402)Met+(0.1735)Ile+(-0.0962)Leu+(0.1086)Phe;0.816,0.846,0.764,0.739,0.760,0.786,0.819,0.776,(1.7051)+(0.0427)Ser+(-0.0072)Gly+(-0.0072)Thr+(-0.0009)Pro+(0.0541)Ile+(-0.1721)Trp;0.816,0.843,0.786,0.772,0.728,0.862,0.890,0.813,(6.0752)+(-0.0841)Asn+(-0.0104)Ala+(-0.0611)Cit+(0.0088)Pro+(-0.0519)Val+(0.1782)Ile;0.816,0.843,0.790,0.774,0.781,0.855,0.806,0.804,(3.0208)+(0.0417)Ser+(-0.0860)Asn+(-0.0052)Gly+(0.0089)Gln+(-0.1412)His+(0.0037)Val;0.816,0.840,0.800,0.790,0.830,0.823,0.749,0.798,(5.2147)+(0.0013)Gly+(0.0032)Gln+(-0.1182)Cit+(0.0469)Orn+(0.0100)Leu+(-0.1756)Trp;0.816,0.839,0.777,0.758,0.733,0.853,0.867,0.803,(5.9858)+(-0.0690)His+(-0.0077)Ala+(-0.0474)Cit+(-0.0304)Val+(0.1653)Ile+(-0.0191)Leu;0.816,0.857,0.765,0.747,0.748,0.867,0.777,0.785,(0.5828)+(0.0469)Ser+(-0.0037)Gly+(-0.0679)Cit+(-0.2785)Met+(0.1756)Ile+(-0.0755)L

eu;0.816,0.849,0.790,0.785,0.775,0.824,0.810,0.798,(3.5592)+(0.0376)Ser+(-0.0077)Gly+(-0.0072)Ala+(0.0107)Pro+(0.0133)Orn+(-0.1482)Trp;0.816,0.843,0.757,0.730,0.725,0.824,0.845,0.781,(2.3278)+(0.0064)Gln+(-0.1312)His+(-0.0486)Cit+(-0.0313)Val+(0.1059)Ile+(0.0651)Phe;0.816,0.844,0.805,0.806,0.823,0.801,0.767,0.799,(4.2672)+(0.0041)Gly+(-0.0945)Cit+(-0.0004)Val+(-0.0051)Lys+(0.1003)Phe+(-0.1682)Trp;0.816,0.840,0.812,0.805,0.835,0.844,0.760,0.811,(7.5870)+(-0.0045)Ala+(-0.1145)Cit+(0.0012)Arg+(0.0628)Orn+(-0.0032)Lys+(-0.1414)Trp;0.816,0.854,0.799,0.800,0.797,0.773,0.821,0.798,(3.9727)+(-0.0177)Arg+(0.0054)Pro+(-0.0272)Val+(0.0411)Leu+(0.0842)Phe+(-0.1675)Trp;0.816,0.847,0.793,0.770,0.783,0.847,0.835,0.809,(3.1460)+(-0.0041)Asn+(0.0107)Gln+(-0.1411)His+(-0.1895)Met+(0.0080)Orn+(0.0618)Ile;0.816,0.843,0.798,0.773,0.774,0.866,0.862,0.819,(3.6185)+(0.0104)Gln+(-0.1307)His+(-0.0075)Ala+(-0.0602)Cit+(-0.0084)Lys+(0.0711)Ile;0.816,0.848,0.799,0.778,0.809,0.833,0.810,0.807,(8.1551)+(-0.0949)His+(-0.0022)Ala+(-0.0431)Met+(0.0341)Orn+(0.0229)Leu+(-0.1069)Trp;0.816,0.847,0.814,0.821,0.815,0.840,0.777,0.813,(4.6554)+(0.0458)Ser+(-0.0073)Gly+(-0.0116)Arg+(-0.1364)Met+(0.0068)Lys+(-0.1353)Trp;0.816,0.847,0.818,0.832,0.811,0.845,0.775,0.816,(3.9859)+(0.0343)Ser+(-0.1171)Asn+(0.0040)Gln+(-0.0001)Val+(0.0019)Lys+(-0.1376)Trp;0.816,0.845,0.805,0.805,0.818,0.854,0.742,0.805,(5.0403)+(0.0286)Ser+(0.0063)Thr+(-0.0033)Ala+(-0.0737)Cit+(0.0087)Tyr+(-0.1518)Trp;0.816,0.840,0.728,0.698,0.732,0.805,0.741,0.744,(1.1558)+(0.0509)Ser+(-0.0021)Gly+(-0.1558)His+(-0.0217)Arg+(-0.0036)Val+(0.1052)Phe;0.816,0.856,0.756,0.736,0.751,0.873,0.733,0.773,(0.5685)+(0.0393)Ser+(-0.0923)Cit+(-0.2825)Met+(0.0249)Orn+(0.1702)Ile+(-0.0764)Leu;0.816,0.850,0.823,0.830,0.830,0.858,0.765,0.821,(3.0917)+(0.0361)Ser+(0.0037)Gln+(-0.0132)Arg+(0.0347)Tyr+(-0.1923)Met+(-0.1438)Trp;0.816,0.847,0.826,0.834,0.829,0.803,0.811,0.819,(3.5519)+(0.0018)Gly+(-0.00

29)Ala+(-0.1920)Met+(0.0126)Orn+(0.1084)Phe+(-0.1389)Trp;0.816,0.847,0.806,0.793,0.818,0.835,0.795,0.810,(7.8284)+(-0.0896)His+(0.0153)Tyr+(-0.0897)Met+(0.0313)Orn+(0.0111)Lys+(-0.1068)Trp;0.816,0.846,0.821,0.825,0.828,0.799,0.812,0.816,(5.5271)+(-0.0508)Asn+(-0.0839)Cit+(0.0077)Arg+(-0.0201)Tyr+(0.1043)Phe+(-0.1540)Trp;0.816,0.841,0.777,0.758,0.788,0.808,0.782,0.784,(7.3322)+(0.0037)Gly+(-0.1041)His+(0.0050)Pro+(0.0052)Lys+(0.0206)Leu+(-0.1156)Trp;0.816,0.836,0.745,0.710,0.742,0.827,0.788,0.767,(2.0573)+(0.0388)Ser+(-0.0053)Gly+(0.0059)Gln+(-0.1673)His+(0.0022)Pro+(0.0158)Leu;0.816,0.850,0.802,0.810,0.810,0.762,0.797,0.795,(3.4132)+(-0.0016)Gly+(0.0076)Thr+(-0.0089)Val+(0.0082)Orn+(0.0762)Phe+(-0.1675)Trp;0.816,0.844,0.807,0.818,0.810,0.841,0.746,0.804,(4.7857)+(0.0412)Ser+(-0.0572)Asn+(-0.0066)Arg+(0.0044)Val+(-0.0881)Met+(-0.1329)Trp;0.815,0.845,0.808,0.798,0.836,0.836,0.758,0.807,(7.1687)+(-0.1033)Cit+(0.0076)Pro+(0.0049)Tyr+(-0.0957)Met+(0.0517)Orn+(-0.1473)Trp;0.815,0.839,0.783,0.756,0.761,0.858,0.849,0.806,(3.4412)+(0.0086)Gln+(-0.1398)His+(0.0077)Thr+(-0.0081)Ala+(-0.0582)Cit+(0.0644)Ile;0.815,0.847,0.787,0.787,0.775,0.812,0.794,0.792,(5.6097)+(0.0095)Thr+(-0.0285)Arg+(0.0038)Lys+(0.1511)Ile+(-0.0717)Leu+(-0.1456)Trp;0.815,0.845,0.805,0.817,0.816,0.822,0.739,0.799,(7.4265)+(-0.0463)Asn+(0.0260)Thr+(0.0090)Pro+(-0.0030)Val+(-0.1609)Met+(-0.1341)Trp;0.815,0.840,0.810,0.803,0.833,0.839,0.762,0.809,(7.3188)+(-0.0052)Ala+(-0.1148)Cit+(-0.0003)Arg+(0.0030)Val+(0.0592)Orn+(-0.1492)Trp;0.815,0.849,0.750,0.718,0.760,0.825,0.759,0.766,(5.3629)+(0.0037)Gly+(-0.1314)His+(0.0302)Thr+(-0.2534)Met+(0.0007)Lys+(0.0723)Ile;0.815,0.845,0.723,0.689,0.715,0.820,0.764,0.747,(1.9669)+(0.0326)Ser+(0.0038)Gln+(-0.1562)His+(-0.0270)Tyr+(0.0095)Orn+(0.0554)Ile;0.815,0.839,0.806,0.801,0.832,0.830,0.745,0.802,(5.5100)+(0.0007)Gly+(0.0034)Gln+(-0.1150)Cit+(0.0004)Val+(0.0495)Orn+(

-0.1658)Trp;0.815,0.848,0.834,0.847,0.839,0.787,0.822,0.824,(4.1740)+(-0.0333)Asn+(-0.0086)Val+(-0.1925)Met+(0.0108)Lys+(0.1187)Phe+(-0.1367)Trp;0.815,0.846,0.801,0.791,0.781,0.835,0.844,0.813,(5.9803)+(-0.0655)Asn+(0.0156)Thr+(-0.0088)Ala+(0.0043)Pro+(0.0597)Ile+(-0.1544)Trp;0.815,0.842,0.781,0.761,0.775,0.838,0.805,0.795,(3.7911)+(-0.0698)Asn+(0.0115)Gln+(-0.1554)His+(0.0156)Thr+(-0.0219)Arg+(0.0433)Ile;0.815,0.841,0.775,0.756,0.777,0.812,0.795,0.785,(7.6230)+(0.0034)Gly+(-0.0960)His+(0.0063)Pro+(-0.0173)Val+(0.0496)Leu+(-0.1101)Trp;0.815,0.849,0.814,0.817,0.824,0.853,0.755,0.812,(3.8295)+(0.0388)Ser+(-0.0143)Arg+(0.0354)Tyr+(-0.1955)Met+(0.0073)Lys+(-0.1464)Trp;0.815,0.843,0.783,0.772,0.773,0.861,0.773,0.795,(3.4474)+(0.0332)Ser+(-0.0890)Asn+(0.0072)Gln+(-0.1324)His+(-0.0022)Ala+(0.0241)Orn;0.815,0.842,0.736,0.709,0.717,0.797,0.804,0.757,(3.1303)+(0.0043)Gly+(-0.1295)His+(-0.0045)Lys+(0.1024)Ile+(-0.0517)Leu+(0.0760)Phe;0.815,0.838,0.771,0.747,0.760,0.830,0.812,0.787,(3.5352)+(-0.0840)Asn+(0.0020)Gly+(0.0096)Gln+(-0.1534)His+(0.0104)Thr+(0.0440)Ile;0.815,0.850,0.815,0.811,0.822,0.796,0.826,0.814,(3.1348)+(0.0042)Gln+(-0.0889)Cit+(-0.0148)Val+(0.0263)Leu+(0.0845)Phe+(-0.1798)Trp;0.815,0.845,0.746,0.728,0.717,0.809,0.807,0.765,(4.3643)+(-0.1452)His+(0.0197)Thr+(-0.0053)Ala+(-0.0530)Tyr+(0.0446)Ile+(0.0828)Phe;0.815,0.837,0.707,0.668,0.702,0.800,0.754,0.731,(0.8106)+(0.0427)Ser+(-0.1626)His+(0.0013)Pro+(-0.0158)Val+(0.0263)Leu+(0.0853)Phe;0.815,0.847,0.791,0.792,0.793,0.828,0.756,0.792,(3.2529)+(0.0413)Ser+(-0.0017)Ala+(-0.0069)Arg+(-0.1614)Met+(0.0247)Leu+(-0.1424)Trp;0.815,0.846,0.758,0.727,0.735,0.833,0.836,0.783,(4.6687)+(-0.1418)His+(0.0180)Thr+(-0.0073)Ala+(-0.0112)Lys+(0.0476)Ile+(0.0627)Phe;0.815,0.844,0.752,0.732,0.717,0.810,0.839,0.774,(4.2184)+(-0.1002)His+(-0.0200)Arg+(-0.0340)Val+(0.1435)Ile+(-0.0237)Leu+(0.0768)Phe;0.815,0.841,0.709,0.674,0.709,0.800,0.740,0.731,(0.7220)+(0.0413)Ser+(-

0.1651)His+(0.0016)Pro+(-0.0055)Val+(0.0132)Orn+(0.0935)Phe;0.815,0.8
45,0.772,0.747,0.744,0.843,0.849,0.796,(5.5083)+(-0.1053)His+(-0.0077
)Ala+(0.0017)Pro+(0.0218)Orn+(0.1195)Ile+(-0.0485)Leu;0.815,0.844,0.8
04,0.796,0.780,0.840,0.851,0.817,(2.6328)+(-0.0725)Asn+(0.0111)Gln+(-
0.1515)His+(-0.0050)Ala+(0.0041)Pro+(0.0809)Phe;0.815,0.843,0.823,0.8
22,0.844,0.851,0.760,0.819,(5.6442)+(0.0055)Gln+(-0.1021)Cit+(-0.0036
)Arg+(-0.0930)Met+(0.0503)Orn+(-0.1481)Trp;0.815,0.843,0.808,0.800,0.
787,0.841,0.850,0.819,(2.5961)+(-0.0717)Asn+(0.0115)Gln+(-0.1528)His+
(-0.0039)Ala+(-0.0011)Lys+(0.0849)Phe;0.815,0.851,0.778,0.765,0.776,0
.863,0.753,0.789,(2.6925)+(0.0332)Ser+(0.0067)Gln+(-0.1380)His+(0.015
9)Tyr+(-0.1664)Met+(0.0224)Orn;0.815,0.850,0.787,0.779,0.798,0.808,0.
768,0.789,(5.6956)+(-0.0005)Gly+(0.0292)Thr+(-0.0140)Arg+(-0.2298)Met
+(0.0658)Ile+(-0.1526)Trp;0.815,0.849,0.830,0.835,0.822,0.844,0.825,0
.832,(4.2163)+(0.0451)Ser+(-0.1137)Asn+(-0.0078)Gly+(0.0046)Gln+(0.00
04)Val+(-0.1385)Trp;0.815,0.848,0.796,0.794,0.771,0.803,0.850,0.804,(
3.4952)+(0.0005)Gly+(-0.0084)Ala+(-0.0220)Tyr+(0.0567)Ile+(0.0676)Phe
+(-0.1653)Trp;0.815,0.848,0.790,0.794,0.770,0.812,0.807,0.796,(5.8707
)+(-0.0226)Arg+(-0.0147)Tyr+(0.0076)Lys+(0.1564)Ile+(-0.0746)Leu+(-0.
1355)Trp;0.815,0.848,0.790,0.773,0.820,0.842,0.736,0.793,(7.8079)+(0.
0044)Gly+(-0.0756)His+(-0.0842)Cit+(0.0092)Tyr+(0.0568)Orn+(-0.1143)T
rp;0.815,0.842,0.773,0.754,0.737,0.847,0.846,0.796,(5.6808)+(-0.1084)
His+(0.0097)Thr+(-0.0074)Ala+(-0.0017)Lys+(0.1200)Ile+(-0.0437)Leu;0.
815,0.842,0.750,0.741,0.692,0.854,0.823,0.777,(2.8919)+(0.0420)Ser+(-
0.1717)Asn+(-0.0149)Tyr+(-0.0517)Val+(0.1795)Ile+(-0.0087)Leu;0.815,0
.848,0.795,0.796,0.783,0.832,0.792,0.801,(4.3105)+(0.0422)Ser+(-0.007
3)Gly+(-0.0059)Ala+(-0.0178)Arg+(0.0126)Pro+(-0.1426)Trp;0.815,0.846,
0.781,0.772,0.738,0.849,0.846,0.801,(4.0391)+(0.0018)Gly+(0.0036)Pro+
(-0.0572)Val+(-0.3191)Met+(0.0079)Lys+(0.1891)Ile;0.815,0.844,0.803,0

.816,0.807,0.837,0.732,0.798,(4.3478)+(0.0355)Ser+(-0.0001)Ala+(-0.0126)Arg+(-0.1378)Met+(0.0076)Lys+(-0.1359)Trp;0.815,0.842,0.793,0.782,0.780,0.861,0.801,0.806,(3.5046)+(0.0397)Ser+(-0.0934)Asn+(-0.0055)Gly+(0.0086)Gln+(-0.1353)His+(0.0056)Thr;0.815,0.839,0.781,0.775,0.719,0.863,0.865,0.805,(5.8486)+(-0.1216)Asn+(0.0222)Thr+(-0.0071)Ala+(-0.0192)Arg+(-0.0590)Val+(0.1894)Ile;0.815,0.844,0.755,0.731,0.720,0.813,0.846,0.778,(4.3783)+(-0.1042)His+(-0.0181)Arg+(-0.0019)Pro+(-0.0403)Val+(0.1285)Ile+(0.0726)Phe;0.815,0.843,0.727,0.713,0.718,0.778,0.744,0.738,(4.7643)+(-0.1520)His+(0.0279)Thr+(-0.0221)Arg+(-0.0669)Tyr+(0.0371)Ile+(0.0955)Phe;0.815,0.841,0.796,0.784,0.784,0.823,0.833,0.806,(2.4169)+(-0.0740)Asn+(0.0116)Gln+(-0.1586)His+(0.0002)Pro+(-0.0026)Lys+(0.0789)Phe;0.815,0.841,0.705,0.662,0.710,0.796,0.741,0.727,(0.6177)+(0.0423)Ser+(-0.1712)His+(0.0005)Pro+(0.0091)Orn+(0.0011)Leu+(0.0856)Phe;0.815,0.837,0.803,0.796,0.835,0.838,0.731,0.800,(6.9441)+(0.0024)Gly+(-0.1070)Cit+(0.0015)Val+(-0.0719)Met+(0.0550)Orn+(-0.1455)Trp;0.815,0.852,0.790,0.807,0.789,0.763,0.766,0.781,(2.7298)+(0.0025)Gln+(0.0145)Thr+(-0.0440)Tyr+(-0.0098)Lys+(0.0972)Phe+(-0.1666)Trp;0.815,0.848,0.790,0.786,0.773,0.824,0.811,0.799,(3.7097)+(0.0389)Ser+(-0.0076)Gly+(-0.0067)Ala+(0.0116)Pro+(0.0004)Val+(-0.1468)Trp;0.815,0.847,0.790,0.765,0.806,0.821,0.800,0.798,(7.9352)+(-0.0070)Asn+(-0.1012)His+(0.0010)Tyr+(0.0314)Orn+(0.0195)Leu+(-0.1121)Trp;0.815,0.847,0.785,0.787,0.790,0.819,0.749,0.786,(4.0216)+(0.0385)Ser+(-0.1178)Asn+(0.0038)Thr+(0.0142)Orn+(0.0116)Leu+(-0.1448)Trp;0.815,0.845,0.808,0.810,0.808,0.831,0.783,0.808,(4.1319)+(0.0471)Ser+(-0.0075)Gly+(-0.0003)Ala+(0.0055)Val+(-0.1411)Met+(-0.1402)Trp;0.815,0.843,0.806,0.815,0.819,0.815,0.748,0.799,(7.3484)+(-0.0417)Asn+(-0.0013)Gly+(0.0265)Thr+(0.0081)Pro+(-0.1661)Met+(-0.1392)Trp;0.815,0.842,0.772,0.752,0.735,0.846,0.848,0.795,(5.5629)+(-0.1081)His+(0.0085)Thr+(-0.0079)Ala+(0.001

9)Pro+(0.1186)Ile+(-0.0445)Leu;0.815,0.842,0.802,0.813,0.814,0.810,0.743,0.795,(6.9346)+(-0.0482)Asn+(0.0238)Thr+(0.0083)Pro+(-0.1757)Met+(0.0060)Lys+(-0.1427)Trp;0.815,0.842,0.771,0.759,0.763,0.848,0.764,0.784,(3.0619)+(0.0354)Ser+(-0.0962)Asn+(0.0079)Gln+(-0.1373)His+(0.0021)Thr+(0.0066)Pro;0.815,0.849,0.800,0.785,0.750,0.871,0.895,0.825,(4.6723)+(-0.0058)Ala+(-0.0017)Arg+(0.0213)Tyr+(-0.0548)Val+(-0.2676)Met+(0.1999)Ile;0.815,0.846,0.810,0.812,0.810,0.836,0.788,0.811,(5.5004)+(0.0450)Ser+(-0.1060)Asn+(-0.0077)Gly+(0.0102)Thr+(-0.0001)Val+(-0.1402)Trp;0.815,0.846,0.826,0.816,0.813,0.842,0.867,0.835,(3.7032)+(0.0057)Gln+(-0.0061)Ala+(0.0230)Tyr+(-0.1993)Met+(0.0740)Ile+(-0.1514)Trp;0.815,0.835,0.750,0.716,0.745,0.829,0.793,0.771,(2.0673)+(0.0392)Ser+(-0.0053)Gly+(0.0063)Gln+(-0.1664)His+(-0.0021)Thr+(0.0175)Leu;0.815,0.847,0.781,0.771,0.804,0.820,0.732,0.782,(4.1062)+(0.0313)Ser+(0.0032)Thr+(-0.0822)Cit+(-0.0042)Tyr+(0.0184)Leu+(-0.1721)Trp;0.815,0.845,0.800,0.796,0.820,0.798,0.769,0.796,(4.2465)+(0.0046)Gly+(-0.0979)Cit+(-0.0074)Lys+(0.0088)Leu+(0.0948)Phe+(-0.1737)Trp;0.815,0.852,0.832,0.852,0.822,0.785,0.831,0.823,(3.0070)+(-0.0889)Asn+(0.0062)Gln+(-0.0302)Tyr+(0.0001)Lys+(0.0901)Phe+(-0.1516)Trp;0.815,0.849,0.793,0.796,0.795,0.826,0.758,0.794,(2.4190)+(0.0383)Ser+(0.0024)Gln+(-0.1911)Met+(-0.0013)Lys+(0.0233)Leu+(-0.1473)Trp;0.815,0.841,0.728,0.697,0.736,0.816,0.730,0.745,(1.2923)+(0.0506)Ser+(-0.1513)His+(-0.0248)Cit+(-0.0140)Arg+(-0.0097)Lys+(0.1098)Phe;0.815,0.853,0.820,0.837,0.819,0.782,0.801,0.810,(2.7345)+(0.0040)Gln+(-0.0232)Arg+(0.0046)Pro+(-0.0081)Val+(0.0870)Phe+(-0.1667)Trp;0.815,0.850,0.736,0.701,0.757,0.836,0.713,0.752,(3.4086)+(0.0405)Ser+(-0.1423)His+(0.0193)Thr+(-0.2339)Met+(0.0146)Orn+(0.0307)Leu;0.815,0.846,0.755,0.735,0.761,0.848,0.728,0.768,(4.2888)+(0.0452)Ser+(-0.0047)Gly+(-0.1157)His+(0.0155)Thr+(0.0117)Pro+(-0.2023)Met;0.815,0.844,0.741,0.708,0.738,0.844,0.763,0.763,(4.2

567)+(0.0444)Ser+(-0.1029)Asn+(-0.1189)His+(-0.0309)Val+(0.0317)Orn+(0.0618)Leu;0.815,0.849,0.803,0.813,0.801,0.841,0.750,0.801,(4.7075)+(0.0369)Ser+(-0.1075)Asn+(0.0006)Tyr+(-0.0021)Val+(0.0227)Orn+(-0.1314)Trp;0.815,0.844,0.837,0.844,0.833,0.852,0.815,0.836,(5.7023)+(0.0070)Gln+(-0.0051)Ala+(-0.0724)Cit+(0.0145)Pro+(-0.0982)Met+(-0.1390)Trp;0.815,0.840,0.721,0.682,0.714,0.811,0.776,0.746,(2.9296)+(0.0450)Ser+(-0.0051)Gly+(-0.1426)His+(0.0026)Thr+(-0.0295)Tyr+(0.0597)Ile;0.815,0.848,0.781,0.781,0.783,0.812,0.754,0.783,(4.0685)+(0.0397)Ser+(-0.1183)Asn+(0.0043)Thr+(0.0055)Pro+(0.0105)Leu+(-0.1451)Trp;0.815,0.848,0.784,0.785,0.788,0.821,0.744,0.784,(4.1541)+(0.0428)Ser+(-0.1007)Asn+(-0.0117)Arg+(0.0067)Pro+(0.0105)Leu+(-0.1413)Trp;0.815,0.851,0.799,0.816,0.802,0.766,0.769,0.788,(4.7861)+(-0.0996)Asn+(0.0238)Thr+(-0.0424)Tyr+(-0.0038)Leu+(0.1008)Phe+(-0.1497)Trp;0.815,0.838,0.707,0.666,0.709,0.794,0.746,0.729,(0.6047)+(0.0446)Ser+(-0.1687)His+(-0.0024)Thr+(0.0013)Pro+(0.0023)Leu+(0.

0875)Phe;0.815,0.836,0.711,0.676,0.709,0.797,0.744,0.732,(0.7244)+(0.0438)Ser+(-0.1636)His+(-0.0018)Thr+(0.0023)Pro+(-0.0039)Val+(0.0954)Phe;0.815,0.847,0.747,0.725,0.748,0.795,0.771,0.760,(2.1103)+(0.0355)Ser+(-0.0007)Gln+(0.0009)Orn+(-0.0149)Lys+(0.0635)Ile+(-0.1616)Trp;0.815,0.847,0.813,0.814,0.825,0.793,0.800,0.808,(3.0680)+(0.0049)Gln+(-0.0937)Cit+(-0.0091)Arg+(0.0046)Pro+(0.0843)Phe+(-0.1819)Trp;0.815,0.842,0.770,0.755,0.765,0.848,0.768,0.784,(2.8688)+(0.0363)Ser+(-0.0928)Asn+(0.0080)Gln+(-0.1400)His+(0.0063)Pro+(0.0018)Val;0.815,0.839,0.796,0.789,0.828,0.828,0.725,0.792,(6.5037)+(0.0009)Gly+(0.0064)Thr+(-0.1137)Cit+(0.0000)Val+(0.0508)Orn+(-0.1637)Trp;0.815,0.850,0.816,0.810,0.799,0.818,0.863,0.823,(4.5417)+(-0.0362)Asn+(-0.0081)Ala+(-0.0105)Arg+(0.0548)Ile+(0.0661)Phe+(-0.1602)Trp;0.815,0.844,0.756,0.748,0.695,0.854,0.832,0.782,(2.5919)+(0.0410)Ser+(-0.1851)Asn+(0.0017)Gln+(-0

.0147)Tyr+(-0.0544)Val+(0.1721)Ile;0.815,0.838,0.766,0.744,0.756,0.842,0.790,0.783,(2.9384)+(0.0392)Ser+(-0.0064)Gly+(0.0066)Gln+(-0.1483)His+(0.0059)Pro+(-0.0067)Lys;0.815,0.844,0.761,0.750,0.705,0.866,0.833,0.789,(-1.4885)+(0.0308)Ser+(-0.0152)Ala+(-0.1093)Cit+(0.1968)Ile+(-0.0983)Leu+(0.0675)Phe;0.815,0.848,0.751,0.733,0.770,0.852,0.685,0.760,(4.4739)+(0.0401)Ser+(-0.1103)His+(0.0171)Thr+(-0.0368)Cit+(0.0122)Pro+(-0.2060)Met;0.815,0.846,0.827,0.823,0.850,0.854,0.771,0.824,(5.5067)+(0.0053)Gln+(-0.1032)Cit+(0.0118)Tyr+(-0.1157)Met+(0.0482)Orn+(-0.1508)Trp;0.815,0.842,0.814,0.806,0.840,0.836,0.762,0.811,(7.9431)+(-0.0535)Asn+(-0.1095)Cit+(0.0033)Arg+(-0.0008)Tyr+(0.0580)Orn+(-0.1443)Trp;0.815,0.841,0.797,0.784,0.785,0.824,0.834,0.807,(2.4167)+(-0.0739)Asn+(0.0116)Gln+(-0.1587)His+(-0.0026)Lys+(0.0001)Leu+(0.0790)Phe;0.815,0.838,0.788,0.793,0.768,0.812,0.797,0.793,(2.1652)+(0.0117)Gln+(-0.1595)His+(-0.0226)Arg+(-0.0388)Tyr+(-0.0028)Val+(0.1081)Phe;0.815,0.854,0.844,0.857,0.848,0.803,0.835,0.836,(3.0944)+(-0.0864)Asn+(0.0067)Gln+(-0.0162)Arg+(0.0020)Lys+(0.0785)Phe+(-0.1622)Trp;0.815,0.849,0.797,0.813,0.800,0.763,0.776,0.788,(4.9141)+(-0.0967)Asn+(-0.0012)Gly+(0.0244)Thr+(-0.0439)Tyr+(0.0968)Phe+(-0.1533)Trp;0.815,0.845,0.802,0.795,0.816,0.845,0.762,0.804,(4.4794)+(0.0325)Ser+(-0.0045)Ala+(-0.0806)Cit+(0.0101)Tyr+(0.0085)Val+(-0.1599)Trp;0.815,0.843,0.787,0.772,0.810,0.824,0.754,0.790,(6.2276)+(0.0022)Gly+(-0.1119)Cit+(-0.0221)Val+(0.0556)Orn+(0.0455)Leu+(-0.1656)Trp;0.815,0.842,0.785,0.775,0.774,0.820,0.811,0.795,(2.1028)+(-0.0826)Asn+(0.0037)Gly+(0.0109)Gln+(-0.1597)His+(-0.0019)Lys+(0.0845)Phe;0.815,0.852,0.801,0.807,0.786,0.792,0.824,0.802,(3.3768)+(0.0087)Thr+(-0.0091)Ala+(0.0075)Pro+(0.0022)Leu+(0.0764)Phe+(-0.1701)Trp;0.815,0.850,0.817,0.816,0.793,0.843,0.854,0.826,(4.7218)+(-0.0900)Asn+(0.0050)Gln+(0.0145)Thr+(-0.0079)Ala+(0.0611)Ile+(-0.1585)Trp;0.815,0.848,0.811,0.816,0.818,0.803,0.789,0.80

6,(4.0451)+(0.0184)Thr+(-0.0071)Ala+(-0.0273)Arg+(0.0101)Orn+(0.0873)Phe+(-0.1699)Trp;0.815,0.848,0.830,0.838,0.823,0.817,0.833,0.828,(4.5583)+(-0.0668)Asn+(0.0016)Gly+(-0.0052)Ala+(0.0141)Orn+(0.0814)Phe+(-0.1461)Trp;0.815,0.847,0.793,0.765,0.794,0.855,0.822,0.809,(3.1030)+(0.0112)Gln+(-0.1325)His+(-0.0599)Cit+(-0.1882)Met+(0.0226)Orn+(0.0610)Ile;0.815,0.847,0.799,0.777,0.793,0.850,0.833,0.813,(2.9537)+(0.0123)Gln+(-0.1318)His+(-0.0472)Cit+(0.0014)Pro+(-0.1973)Met+(0.0669)Ile;0.815,0.846,0.784,0.791,0.807,0.776,0.725,0.775,(4.4850)+(0.0235)Thr+(-0.0882)Cit+(-0.0109)Arg+(-0.0408)Tyr+(0.1110)Phe+(-0.1764)Trp;0.815,0.845,0.821,0.825,0.828,0.798,0.809,0.815,(5.6044)+(-0.0438)Asn+(-0.0798)Cit+(-0.0189)Tyr+(0.0037)Leu+(0.1014)Phe+(-0.1567)Trp;0.815,0.843,0.814,0.823,0.820,0.855,0.749,0.812,(4.4103)+(0.0278)Ser+(0.0032)Gln+(-0.0025)Ala+(-0.0684)Cit+(-0.0061)Arg+(-0.1471)Trp;0.815,0.840,0.724,0.692,0.704,0.833,0.774,0.751,(2.9806)+(0.0399)Ser+(-0.1070)His+(-0.0204)Cit+(-0.0204)Arg+(-0.0315)Val+(0.1317)Ile;0.815,0.839,0.803,0.794,0.802,0.824,0.812,0.808,(8.5013)+(0.0005)Asn+(-0.0834)His+(-0.0040)Ala+(0.0101)Pro+(0.0067)Val+(-0.1055)Trp;0.815,0.849,0.787,0.805,0.787,0.764,0.758,0.779,(3.5297)+(0.0171)Thr+(-0.0429)Tyr+(-0.0065)Val+(-0.0067)Lys+(0.1070)Phe+(-0.1576)Trp;0.815,0.845,0.790,0.788,0.801,0.826,0.744,0.790,(8.3373)+(0.0009)Gly+(-0.0972)His+(0.0226)Thr+(-0.0167)Arg+(0.0086)Lys+(-0.1103)Trp;0.815,0.843,0.820,0.829,0.842,0.851,0.728,0.812,(7.9601)+(0.0290)Thr+(-0.0015)Ala+(-0.0611)Cit+(-0.0030)Arg+(-0.1373)Met+(-0.1386)Trp;0.815,0.847,0.810,0.815,0.815,0.800,0.793,0.806,(4.0070)+(0.0197)Thr+(-0.0072)Ala+(-0.0259)Arg+(0.0033)Leu+(0.0902)Phe+(-0.1736)Trp;0.815,0.852,0.826,0.838,0.813,0.804,0.835,0.823,(2.8391)+(0.0042)Gln+(-0.0081)Ala+(-0.0212)Arg+(0.0087)Pro+(0.0856)Phe+(-0.1658)Trp;0.815,0.852,0.811,0.816,0.822,0.780,0.797,0.804,(3.2771)+(0.0023)Gly+(0.0077)Pro+(0.0004)Tyr+(-0.2337)Met+(0.1112)Phe+(-0.1

440)Trp;0.815,0.851,0.832,0.830,0.851,0.802,0.818,0.825,(4.5905)+(-0.0729)Cit+(0.0066)Tyr+(-0.1828)Met+(0.0054)Lys+(0.1182)Phe+(-0.1555)Trp;0.815,0.847,0.786,0.785,0.775,0.812,0.794,0.792,(5.7555)+(-0.0002)Gly+(0.0110)Thr+(-0.0267)Arg+(0.1487)Ile+(-0.0686)Leu+(-0.1442)Trp;0.815,0.846,0.802,0.812,0.805,0.778,0.787,0.795,(2.8280)+(0.0052)Gln+(-0.0972)Cit+(0.0066)Pro+(-0.0382)Tyr+(0.1013)Phe+(-0.1721)Trp;0.815,0.851,0.824,0.819,0.828,0.809,0.839,0.823,(5.7431)+(-0.0592)Asn+(-0.0718)Cit+(-0.0201)Val+(0.0356)Leu+(0.0945)Phe+(-0.1552)Trp;0.815,0.850,0.788,0.773,0.798,0.822,0.786,0.795,(4.2259)+(0.0385)Ser+(-0.0047)Gly+(-0.0682)Cit+(-0.0153)Val+(0.0411)Leu+(-0.1661)Trp;0.815,0.850,0.752,0.717,0.762,0.822,0.775,0.769,(5.3901)+(0.0233)Asn+(-0.1350)His+(0.0304)Thr+(-0.2662)Met+(0.0112)Orn+(0.0688)Ile;0.815,0.848,0.798,0.804,0.797,0.824,0.768,0.798,(3.3128)+(0.0374)Ser+(-0.1265)Asn+(0.0030)Gln+(0.0135)Orn+(0.0111)Leu+(-0.1449)Trp;0.815,0.847,0.814,0.819,0.820,0.801,0.796,0.809,(4.2257)+(-0.0011)Gly+(0.0206)Thr+(-0.0069)Ala+(-0.0259)Arg+(0.0916)Phe+(-0.1718)Trp;0.815,0.847,0.776,0.768,0.772,0.860,0.744,0.786,(2.9331)+(0.0315)Ser+(0.0064)Gln+(-0.1351)His+(-0.1428)Met+(0.0246)Orn+(0.0012)Lys;0.815,0.846,0.805,0.800,0.799,0.833,0.815,0.812,(4.4555)+(0.0495)Ser+(-0.0948)Asn+(-0.0065)Gly+(-0.0029)Ala+(0.0176)Leu+(-0.1418)Trp;0.815,0.845,0.791,0.791,0.786,0.865,0.749,0.798,(3.6558)+(0.0309)Ser+(-0.0634)Asn+(0.0080)Gln+(-0.1261)His+(0.0156)Thr+(-0.1313)Met;0.815,0.840,0.716,0.683,0.728,0.804,0.717,0.733,(0.9844)+(0.0470)Ser+(-0.1651)His+(0.0053)Thr+(-0.0245)Arg+(0.0015)Leu+(0.0980)Phe;0.815,0.848,0.754,0.722,0.763,0.821,0.772,0.770,(5.8067)+(-0.1303)His+(0.0310)Thr+(-0.0122)Tyr+(-0.2285)Met+(0.0140)Orn+(0.0668)Ile;0.815,0.847,0.836,0.847,0.839,0.801,0.826,0.828,(4.1698)+(-0.0016)Ala+(-0.0024)Arg+(-0.0046)Val+(-0.1787)Met+(0.1205)Phe+(-0.1351)Trp;0.815,0.847,0.798,0.806,0.799,0.842,0.740,0.797,(3.7438)+(0.0345)Ser+(-0.

0017)Ala+(0.0029)Val+(-0.1456)Met+(0.0212)Orn+(-0.1376)Trp;0.815,0.847,0.790,0.775,0.818,0.840,0.734,0.792,(7.9134)+(0.0040)Gly+(-0.0737)His+(-0.0845)Cit+(0.0013)Arg+(0.0584)Orn+(-0.1106)Trp;0.815,0.844,0.802,0.793,0.786,0.824,0.841,0.811,(5.5941)+(0.0021)Gly+(-0.0071)Ala+(0.0075)Pro+(-0.1488)Met+(0.0706)Ile+(-0.1380)Trp;0.815,0.843,0.790,0.783,0.743,0.856,0.858,0.810,(3.1678)+(0.0033)Gln+(0.0032)Pro+(-0.0560)Val+(-0.3312)Met+(0.0058)Lys+(0.1870)Ile;0.815,0.842,0.811,0.808,0.835,0.840,0.748,0.808,(5.9384)+(0.0044)Gln+(-0.1158)Cit+(-0.0071)Tyr+(0.0553)Orn+(-0.0069)Lys+(-0.1546)Trp;0.815,0.840,0.721,0.693,0.728,0.808,0.717,0.736,(1.1570)+(0.0458)Ser+(-0.1599)His+(0.0070)Thr+(-0.0252)Arg+(-0.0043)Val+(0.1069)Phe;0.815,0.843,0.809,0.822,0.806,0.844,0.755,0.807,(5.0911)+(0.0384)Ser+(-0.0904)Asn+(-0.0015)Ala+(-0.0115)Arg+(0.0062)Lys+(-0.1324)Trp;0.815,0.850,0.817,0.821,0.827,0.774,0.815,0.809,(3.8923)+(-0.0215)Asn+(0.0073)Pro+(-0.2199)Met+(0.0060)Lys+(0.1036)Phe+(-0.1467)Trp;0.815,0.846,0.817,0.821,0.820,0.817,0.800,0.815,(4.2902)+(0.0040)Gly+(-0.0056)Ala+(-0.0926)Cit+(0.0009)Arg+(0.1067)Phe+(-0.1629)Trp;0.815,0.844,0.793,0.776,0.763,0.855,0.858,0.813,(5.9920)+(-0.0877)His+(-0.0057)Ala+(-0.1511)Met+(0.0096)Lys+(0.1459)Ile+(-0.0559)Leu;0.815,0.841,0.714,0.678,0.713,0.803,0.745,0.735,(0.7063)+(0.0425)Ser+(-0.1636)His+(-0.0031)Thr+(-0.0049)Val+(0.0151)Orn+(0.0950)Phe;0.815,0.841,0.806,0.803,0.835,0.832,0.732,0.800,(5.7820)+(0.0036)Gln+(0.0070)Thr+(-0.1079)Cit+(-0.0121)Arg+(0.0483)Orn+(-0.1675)Trp;0.815,0.846,0.809,0.807,0.823,0.789,0.802,0.805,(3.0324)+(0.0043)Gln+(-0.0994)Cit+(0.0043)Pro+(0.0007)Leu+(0.0818)Phe+(-0.1838)Trp;0.815,0.843,0.781,0.769,0.735,0.831,0.872,0.802,(3.8298)+(-0.1333)Asn+(-0.0589)Cit+(-0.0504)Val+(0.1842)Ile+(-0.0289)Leu+(0.0799)Phe;0.815,0.838,0.804,0.798,0.834,0.838,0.732,0.800,(7.0144)+(0.0022)Gly+(-0.1059)Cit+(-0.0700)Met+(0.0560)Orn+(0.0000)Lys+(-0.1430)Trp;0.815,0.852,0.815,0.822

,0.822,0.779,0.809,0.808,(4.3943)+(-0.0750)Asn+(0.0019)Gly+(0.0038)Pro+(-0.0039)Leu+(0.0803)Phe+(-0.1541)Trp;0.815,0.850,0.811,0.812,0.808,0.806,0.819,0.811,(5.0374)+(-0.0081)Ala+(-0.0905)Cit+(0.0129)Pro+(-0.0181)Tyr+(0.1070)Phe+(-0.1573)Trp;0.815,0.847,0.813,0.831,0.806,0.837,0.765,0.810,(5.2349)+(0.0045)Gln+(0.0209)Thr+(-0.0045)Ala+(0.0112)Pro+(-0.1980)Met+(-0.1409)Trp;0.815,0.843,0.800,0.781,0.827,0.837,0.767,0.803,(8.4467)+(-0.0721)His+(-0.0789)Cit+(0.0052)Val+(-0.0226)Met+(0.0556)Orn+(-0.1157)Trp;0.815,0.842,0.750,0.732,0.697,0.858,0.827,0.779,(2.7102)+(0.0441)Ser+(-0.1758)Asn+(-0.0000)Pro+(-0.0551)Val+(-0.0042)Lys+(0.1742)Ile;0.815,0.848,0.757,0.726,0.764,0.823,0.779,0.773,(5.8846)+(-0.1275)His+(0.0328)Thr+(-0.0091)Tyr+(-0.2381)Met+(0.0007)Lys+(0.0701)Ile;0.815,0.848,0.799,0.808,0.798,0.836,0.747,0.797,(4.5431)+(0.0373)Ser+(-0.1069)Asn+(-0.0010)Tyr+(0.0210)Orn+(0.0001)Lys+(-0.1343)Trp;0.815,0.846,0.781,0.768,0.794,0.807,0.769,0.784,(5.9982)+(0.0150)Thr+(-0.0807)Cit+(-0.0067)Arg+(-0.0154)Tyr+(0.0625)Ile+(-0.1755)Trp;0.815,0.842,0.717,0.680,0.731,0.809,0.718,0.735,(0.9256)+(0.0463)Ser+(-0.1645)His+(0.0030)Thr+(-0.0250)Arg+(0.0127)Orn+(0.0956)Phe;0.815,0.835,0.751,0.723,0.739,0.844,0.783,0.772,(2.2755)+(0.0329)Ser+(0.0056)Gln+(-0.1608)His+(-0.0003)Thr+(-0.0045)Ala+(0.0231)Leu;0.815,0.849,0.790,0.764,0.764,0.858,0.861,0.812,(6.4443)+(-0.0579)His+(-0.0255)Cit+(0.0159)Tyr+(-0.0438)Val+(-0.2180)Met+(0.1706)Ile;0.815,0.846,0.806,0.804,0.822,0.795,0.785,0.801,(2.7325)+(0.0025)Gly+(0.0040)Gln+(-0.1003)Cit+(0.0034)Leu+(0.0855)Phe+(-0.1836)Trp;0.815,0.844,0.804,0.792,0.785,0.842,0.845,0.816,(2.6
118)+(-0.0730)Asn+(0.0107)Gln+(-0.1528)His+(-0.0043)Ala+(0.0140)Orn+(0.0792)Phe;0.815,0.838,0.750,0.729,0.713,0.833,0.824,0.775,(6.1320)+(-0.1012)Asn+(0.0028)Gly+(-0.0827)His+(0.0181)Thr+(-0.0408)Val+(0.1417)Ile;0.815,0.848,0.830,0.833,0.824,0.823,0.840,0.830,(3.0634)+(0.0051

)Gln+(-0.0069)Ala+(-0.0956)Cit+(0.0098)Leu+(0.0939)Phe+(-0.1757)Trp;0
.815,0.848,0.773,0.751,0.761,0.853,0.797,0.791,(0.3717)+(0.0494)Ser+(
-0.0468)Asn+(-0.0086)Ala+(-0.0802)Cit+(-0.2269)Met+(0.0849)Ile;0.815,
0.843,0.735,0.704,0.729,0.832,0.763,0.757,(1.1229)+(0.0459)Ser+(-0.15
06)His+(-0.0053)Ala+(-0.0389)Cit+(0.0012)Val+(0.1012)Phe;0.815,0.842,
0.784,0.774,0.772,0.819,0.810,0.794,(2.0430)+(-0.0859)Asn+(0.0037)Gly
+(0.0108)Gln+(-0.1603)His+(-0.0007)Leu+(0.0843)Phe;0.815,0.852,0.786,
0.778,0.797,0.809,0.767,0.788,(5.6207)+(0.0285)Thr+(-0.0142)Arg+(0.00
17)Pro+(-0.2333)Met+(0.0643)Ile+(-0.1522)Trp;0.815,0.843,0.722,0.675,
0.730,0.831,0.752,0.747,(1.4231)+(0.0339)Ser+(0.0047)Gln+(-0.1578)His
+(-0.0606)Cit+(0.0202)Orn+(0.0492)Ile;0.815,0.854,0.804,0.808,0.813,0
.773,0.796,0.797,(2.6694)+(0.0023)Gln+(0.0080)Thr+(0.0009)Pro+(-0.010
0)Lys+(0.0738)Phe+(-0.1763)Trp;0.815,0.851,0.824,0.840,0.830,0.784,0.
802,0.814,(3.1624)+(0.0023)Gly+(-0.0079)Val+(-0.2259)Met+(0.0089)Lys+
(0.1236)Phe+(-0.1401)Trp;0.815,0.849,0.822,0.837,0.820,0.854,0.764,0.
819,(3.9708)+(0.0362)Ser+(-0.1078)Asn+(0.0046)Gln+(-0.0131)Arg+(0.006
9)Tyr+(-0.1358)Trp;0.815,0.848,0.832,0.839,0.836,0.806,0.825,0.827,(4
.3100)+(-0.0227)Asn+(-0.0028)Ala+(-0.1668)Met+(0.0152)Orn+(0.1033)Phe
+(-0.1365)Trp;0.815,0.845,0.797,0.800,0.792,0.836,0.773,0.800,(4.2747
)+(0.0418)Ser+(-0.0894)Asn+(-0.0032)Ala+(-0.0080)Arg+(0.0189)Leu+(-0.
1392)Trp;0.815,0.845,0.802,0.799,0.762,0.838,0.864,0.816,(0.9310)+(-0
.0065)Asn+(-0.0078)Ala+(-0.2690)Met+(0.1828)Ile+(-0.0940)Leu+(0.1049)
Phe;0.815,0.844,0.757,0.730,0.759,0.778,0.807,0.769,(2.1296)+(0.0411)
Ser+(-0.0075)Gly+(-0.0011)Gln+(-0.0042)Orn+(0.0531)Ile+(-0.1760)Trp;0
.815,0.842,0.780,0.765,0.791,0.808,0.777,0.785,(5.5272)+(0.0038)Gly+(
-0.0874)Cit+(0.0019)Pro+(-0.0073)Tyr+(0.0635)Ile+(-0.1716)Trp;0.815,0
.841,0.811,0.811,0.833,0.828,0.755,0.807,(8.0794)+(-0.0732)Asn+(0.019
4)Thr+(-0.0714)Cit+(0.0066)Pro+(0.0014)Lys+(-0.1510)Trp;0.815,0.834,0

.754,0.726,0.749,0.833,0.780,0.772,(2.4504)+(0.0375)Ser+(-0.0057)Gly+(0.0062)Gln+(-0.1591)His+(0.0042)Pro+(0.0028)Val;0.815,0.844,0.814,0.823,0.812,0.854,0.765,0.813,(5.0150)+(0.0396)Ser+(-0.0870)Asn+(-0.0019)Ala+(-0.0093)Arg+(0.0137)Tyr+(-0.1319)Trp;0.815,0.845,0.751,0.730,0.750,0.799,0.774,0.763,(2.1126)+(0.0355)Ser+(-0.0006)Gln+(-0.0020)Pro+(-0.0147)Lys+(0.0662)Ile+(-0.1613)Trp;0.815,0.847,0.751,0.731,0.748,0.795,0.777,0.763,(1.8436)+(0.0361)Ser+(-0.0036)Thr+(0.0015)Orn+(-0.0141)Lys+(0.0634)Ile+(-0.1610)Trp;0.815,0.844,0.734,0.703,0.728,0.831,0.757,0.755,(1.1965)+(0.0443)Ser+(-0.1517)His+(0.0039)Thr+(-0.0052)Ala+(-0.0401)Cit+(0.1018)Phe;0.815,0.841,0.798,0.794,0.830,0.836,0.718,0.794,(7.2795)+(0.0116)Thr+(-0.1142)Cit+(-0.0097)Tyr+(0.0556)Orn+(-0.0075)Lys+(-0.1532)Trp;0.815,0.839,0.720,0.674,0.727,0.830,0.747,0.744,(2.8122)+(0.0461)Ser+(-0.1324)His+(-0.0355)Cit+(-0.0070)Arg+(-0.0113)Lys+(0.0670)Ile;0.815,0.839,0.799,0.788,0.832,0.830,0.736,0.797,(6.5975)+(0.0032)Gly+(-0.1089)Cit+(-0.0862)Met+(0.0515)Orn+(0.0140)Leu+(-0.1548)Trp;0.815,0.839,0.782,0.757,0.759,0.859,0.840,0.804,(3.1510)+(0.0032)Gly+(0.0088)Gln+(-0.1360)His+(-0.0080)Ala+(-0.0614)Cit+(0.0676)Ile;0.815,0.851,0.768,0.755,0.764,0.797,0.788,0.776,(2.8080)+(0.0449)Ser+(-0.0075)Gly+(-0.0216)Arg+(-0.0181)Tyr+(0.0596)Ile+(-0.1629)Trp;0.815,0.849,0.782,0.774,0.785,0.864,0.737,0.790,(3.1043)+(0.0327)Ser+(0.0079)Gln+(-0.1360)His+(-0.0193)Arg+(-0.1147)Met+(0.0277)Orn;0.815,0.848,0.787,0.779,0.782,0.866,0.759,0.797,(3.1860)+(0.0346)Ser+(-0.0620)Asn+(0.0076)Gln+(-0.1279)His+(-0.0987)Met+(0.0249)Orn;0.815,0.842,0.805,0.799,0.796,0.864,0.798,0.814,(3.4436)+(0.0422)Ser+(-0.0736)Asn+(-0.0056)Gly+(0.0104)Gln+(-0.1332)His+(-0.0183)Arg;0.815,0.837,0.774,0.752,0.730,0.851,0.870,0.801,(6.0810)+(-0.0725)His+(-0.0074)Ala+(-0.0443)Cit+(-0.0360)Val+(-0.0012)Lys+(0.1521)Ile;0.815,0.837,0.779,0.778,0.710,0.859,0.866,0.803,(5.9477)+(-0.1335)Asn+(0.0201)Thr+(-0.0068

)Ala+(-0.0252)Tyr+(-0.0551)Val+(0.1825)Ile;0.815,0.854,0.830,0.843,0.834,0.801,0.810,0.822,(4.6630)+(-0.0663)Asn+(0.0024)Gly+(-0.0087)Arg+(-0.0074)Val+(0.0981)Phe+(-0.1432)Trp;0.815,0.845,0.804,0.818,0.810,0.831,0.734,0.798,(7.1635)+(0.0274)Thr+(-0.0042)Ala+(-0.0132)Arg+(0.0117)Pro+(-0.1709)Met+(-0.1362)Trp;0.815,0.845,0.798,0.788,0.805,0.836,0.783,0.803,(7.7965)+(0.0024)Gly+(-0.0921)His+(-0.0020)Ala+(0.0117)Tyr+(0.0351)Orn+(-0.1002)Trp;0.815,0.841,0.749,0.735,0.693,0.855,0.828,0.778,(2.6202)+(0.0432)Ser+(-0.1823)Asn+(-0.0001)Pro+(-0.0544)Val+(0.1794)Ile+(-0.0067)Leu;0.815,0.847,0.795,0.804,0.804,0.840,0.718,0.791,(3.9570)+(0.0367)Ser+(-0.0133)Arg+(0.0019)Val+(-0.1416)Met+(0.0242)Orn+(-0.1352)Trp;0.815,0.846,0.808,0.798,0.817,0.823,0.807,0.811,(7.9747)+(-0.0819)His+(0.0092)Pro+(0.0166)Tyr+(-0.1184)Met+(0.0146)Lys+(-0.1112)Trp;0.815,0.841,0.757,0.760,0.700,0.844,0.803,0.777,(-1.8404)+(0.0366)Ser+(-0.0121)Ala+(-0.0430)Arg+(0.1990)Ile+(-0.1087)Leu+(0.0697)Phe;0.815,0.840,0.796,0.797,0.792,0.828,0.781,0.799,(8.3518)+(0.0029)Gly+(-0.0785)His+(-0.0034)Ala+(-0.0029)Arg+(0.0117)Pro+(-0.0969)Trp;0.815,0.838,0.753,0.734,0.736,0.847,0.772,0.772,(2.5190)+(0.0322)Ser+(0.0054)Gln+(-0.1523)His+(-0.0060)Ala+(0.0090)Pro+(0.0057)Val;0.815,0.846,0.820,0.810,0.843,0.852,0.774,0.820,(7.4861)+(-0.0041)Ala+(-0.1078)Cit+(0.0145)Tyr+(-0.0607)Met+(0.0589)Orn+(-0.1414)Trp;0.815,0.850,0.810,0.800,0.817,0.788,0.837,0.811,(3.5333)+(0.0034)Tyr+(-0.2398)Met+(-0.0003)Lys+(0.0530)Ile+(0.0862)Phe+(-0.1530)Trp;0.815,0.847,0.819,0.827,0.810,0.797,0.833,0.817,(2.9005)+(-0.0019)Gly+(0.0025)Gln+(0.0100)Thr+(-0.0074)Ala+(0.0779)Phe+(-0.1726)Trp;0.815,0.847,0.801,0.820,0.787,0.782,0.795,0.796,(2.6685)+(0.0023)Gln+(0.0125)Thr+(-0.0060)Ala+(-0.0344)Tyr+(0.0949)Phe+(-0.1656)Trp;0.815,0.846,0.697,0.640,0.709,0.808,0.739,0.724,(0.3290)+(0.0437)Ser+(-0.1631)His+(-0.0559)Cit+(0.0184)Orn+(0.0350)Ile+(0.0663)Phe;0.815,0.845,0.791,0.768,0.781,0.846,0

.834,0.807,(3.0915)+(0.0106)Gln+(-0.1410)His+(0.0013)Pro+(-0.1967)Met+(0.0073)Orn+(0.0609)Ile;0.815,0.845,0.788,0.782,0.799,0.823,0.757,0.790,(7.7298)+(0.0042)Gly+(-0.0797)His+(-0.0414)Cit+(0.0090)Pro+(0.0088)Lys+(-0.1137)Trp;0.815,0.845,0.790,0.777,0.806,0.818,0.770,0.793,(4.2110)+(0.0390)Ser+(-0.0048)Gly+(-0.0736)Cit+(-0.0049)Tyr+(0.0177)Leu+(-0.1674)Trp;0.815,0.843,0.805,0.799,0.832,0.828,0.748,0.802,(5.6175)+(0.0040)Gln+(-0.1111)Cit+(-0.0100)Arg+(0.0052)Pro+(0.0484)Orn+(-0.1677)Trp;0.815,0.842,0.801,0.798,0.814,0.838,0.757,0.802,(5.2862)+(0.0366)Ser+(-0.0060)Gly+(0.0078)Thr+(-0.0669)Cit+(-0.0043)Lys+(-0.1522)Trp;0.815,0.849,0.831,0.836,0.822,0.845,0.825,0.832,(4.2495)+(0.0450)Ser+(-0.1138)Asn+(-0.0078)Gly+(0.0046)Gln+(0.0005)Tyr+(-0.1380)Trp;0.815,0.849,0.753,0.740,0.755,0.805,0.748,0.762,(2.3280)+(0.0370)Ser+(0.0022)Thr+(-0.0211)Arg+(-0.0104)Lys+(0.0647)Ile+(-0.1627)Trp;0.815,0.847,0.741,0.706,0.759,0.830,0.730,0.756,(3.5794)+(0.0456)Ser+(-0.0034)Gly+(-0.1387)His+(0.0224)Thr+(-0.2358)Met+(0.0323)Leu;0.815,0.846,0.784,0.805,0.780,0.755,0.758,0.774,(3.2419)+(0.0121)Thr+(-0.0437)Tyr+(-0.0084)Val+(0.0089)Orn+(0.0996)Phe+(-0.1573)Trp;0.815,0.845,0.828,0.828,0.831,0.820,0.826,0.826,(5.1363)+(-0.0055)Ala+(-0.0869)Cit+(0.0017)Val+(-0.0025)Lys+(0.1041)Phe+(-0.1611)Trp;0.815,0.842,0.765,0.747,0.755,0.853,0.770,0.781,(4.2536)+(0.0497)Ser+(-0.0043)Gly+(-0.1081)His+(-0.0041)Ala+(0.0159)Pro+(-0.1418)Met;0.815,0.838,0.768,0.753,0.717,0.838,0.865,0.793,(5.8451)+(-0.0844)His+(-0.0062)Ala+(-0.0110)Tyr+(-0.0351)Val+(0.0005)Lys+(0.1440)Ile;0.815,0.841,0.771,0.763,0.761,0.844,0.759,0.782,(3.1659)+(0.0358)Ser+(-0.0910)Asn+(0.0079)Gln+(-0.1324)His+(0.0082)Pro+(-0.0119)Tyr;0.815,0.840,0.743,0.711,0.735,0.844,0.774,0.766,(3.8502)+(0.0467)Ser+(-0.0640)Asn+(-0.1299)His+(-0.0064)Ala+(0.0102)Pro+(0.0206)Leu;0.815,0.850,0.810,0.801,0.817,0.785,0.835,0.809,(3.6454)+(-0.0038)Arg+(-0.2300)Met+(0.0006)Lys+(0.0525)Ile+(0.0873)Ph

e+(-0.1527)Trp;0.815,0.847,0.751,0.735,0.745,0.796,0.771,0.762,(2.367
6)+(0.0347)Ser+(-0.0005)Gln+(-0.0150)Tyr+(-0.0133)Lys+(0.0651)Ile+(-0
.1566)Trp;0.815,0.841,0.811,0.803,0.835,0.840,0.764,0.810,(7.2673)+(-
0.0054)Ala+(-0.1154)Cit+(0.0032)Tyr+(0.0030)Val+(0.0588)Orn+(-0.1506)
Trp;0.815,0.840,0.796,0.784,0.783,0.821,0.833,0.805,(2.3534)+(-0.0782
)Asn+(0.0115)Gln+(-0.1592)His+(0.0002)Pro+(-0.0012)Leu+(0.0788)Phe;0.
815,0.840,0.779,0.774,0.713,0.860,0.871,0.804,(5.6980)+(-0.1138)Asn+(
-0.0068)Ala+(-0.0208)Tyr+(-0.0555)Val+(0.0343)Orn+(0.1758)Ile;0.815,0
.838,0.765,0.750,0.718,0.840,0.848,0.789,(5.7634)+(0.0026)Gly+(-0.082
5)His+(-0.0062)Ala+(-0.0126)Arg+(-0.0367)Val+(0.1489)Ile;0.815,0.856,
0.757,0.742,0.744,0.863,0.747,0.774,(0.4913)+(0.0423)Ser+(-0.0741)Cit
+(0.0025)Pro+(-0.2876)Met+(0.1727)Ile+(-0.0748)Leu;0.815,0.852,0.814,
0.825,0.795,0.797,0.839,0.814,(3.7837)+(-0.0077)Ala+(0.0097)Pro+(-0.0
055)Val+(-0.0014)Lys+(0.0882)Phe+(-0.1550)Trp;0.815,0.844,0.723,0.685
,0.736,0.808,0.737,0.741,(0.9931)+(0.0498)Ser+(-0.0021)Gly+(-0.1621)H
is+(-0.0232)Arg+(0.0142)Orn+(0.0938)Phe;0.815,0.848,0.810,0.790,0.819
,0.825,0.831,0.816,(6.4513)+(-0.0736)Cit+(0.0114)Arg+(-0.1186)Met+(-0
.0023)Lys+(0.0711)Ile+(-0.1526)Trp;0.815,0.845,0.822,0.828,0.829,0.79
8,0.808,0.816,(5.6012)+(-0.0469)Asn+(-0.0787)Cit+(-0.0191)Tyr+(0.0016
)Lys+(0.1036)Phe+(-0.1544)Trp;0.815,0.846,0.803,0.789,0.811,0.834,0.8
01,0.809,(8.1130)+(-0.0944)His+(-0.0025)Ala+(0.0074)Tyr+(0.0056)Val+(
0.0335)Orn+(-0.1059)Trp;0.815,0.842,0.716,0.677,0.711,0.818,0.759,0.7
41,(2.7980)+(0.0426)Ser+(-0.1383)His+(0.0002)Pro+(-0.0173)Tyr+(-0.010
2)Lys+(0.0667)Ile;0.815,0.843,0.754,0.739,0.722,0.822,0.812,0.774,(4.
0622)+(0.0044)Gly+(-0.1364)His+(-0.0056)Ala+(-0.0354)Tyr+(0.0482)Ile+
(0.0789)Phe;0.815,0.846,0.753,0.733,0.751,0.799,0.775,0.765,(1.9830)+
(0.0346)Ser+(-0.0022)Pro+(0.0013)Orn+(-0.0151)Lys+(0.0658)Ile+(-0.162
0)Trp;0.815,0.852,0.820,0.831,0.801,0.801,0.845,0.820,(2.8068)+(0.003

2)Gln+(-0.0083)Ala+(0.0081)Pro+(-0.0053)Lys+(0.0812)Phe+(-0.1636)Trp;0.815,0.851,0.821,0.838,0.825,0.789,0.790,0.811,(2.8618)+(0.0037)Gln+(-0.0248)Arg+(-0.0086)Val+(0.0159)Orn+(0.0837)Phe+(-0.1627)Trp;0.815,0.847,0.793,0.770,0.782,0.844,0.838,0.809,(3.0178)+(0.0111)Gln+(-0.1405)His+(0.0015)Pro+(0.0024)Tyr+(-0.2019)Met+(0.0629)Ile;0.815,0.844,0.749,0.729,0.702,0.857,0.820,0.777,(2.6669)+(0.0419)Ser+(-0.2009)Asn+(-0.0015)Pro+(-0.0592)Val+(0.0268)Orn+(0.1766)Ile;0.815,0.842,0.788,0.770,0.760,0.852,0.850,0.808,(5.9478)+(0.0315)Asn+(-0.0868)His+(-0.0055)Ala+(-0.1585)Met+(0.1458)Ile+(-0.0513)Leu;0.815,0.851,0.812,0.813,0.808,0.811,0.816,0.812,(3.7348)+(0.0152)Thr+(-0.0074)Ala+(-0.0090)Lys+(0.0075)Leu+(0.0827)Phe+(-0.1697)Trp;0.815,0.846,0.800,0.794,0.809,0.836,0.769,0.802,(8.0667)+(-0.0113)Asn+(0.0024)Gly+(-0.0851)His+(-0.0294)Met+(0.0379)Orn+(-0.0943)Trp;0.815,0.844,0.787,0.776,0.781,0.832,0.795,0.796,(1.8534)+(-0.0952)Asn+(0.0055)Gly+(0.0119)Gln+(-0.1519)His+(-0.0533)Cit+(0.0946)Phe;0.815,0.844,0.758,0.733,0.760,0.781,0.805,0.770,(2.1403)+(0.0407)Ser+(-0.0075)Gly+(-0.0012)Gln+(-0.0016)Pro+(0.0535)Ile+(-0.1753)Trp;0.815,0.842,0.782,0.767,0.743,0.858,0.847,0.804,(4.0631)+(0.0029)Gly+(0.0196)Tyr+(-0.0525)Val+(-0.3128)Met+(0.2059)Ile+(-0.0147)Leu;0.815,0.840,0.790,0.784,0.742,0.858,0.854,0.809,(3.2647)+(0.0038)Gln+(0.0023)Pro+(-0.0492)Val+(-0.3066)Met+(0.1985)Ile+(-0.0170)Leu;0.815,0.840,0.757,0.745,0.693,0.863,0.845,0.787,(1.4707)+(0.0294)Ser+(-0.0113)Ala+(-0.0588)Cit+(-0.0186)Arg+(-0.0496)Val+(0.1838)Ile;0.815,0.852,0.820,0.830,0.808,0.801,0.830,0.817,(4.2474)+(-0.0073)Ala+(-0.0159)Arg+(0.0105)Pro+(-0.0056)Val+(0.0945)Phe+(-0.1524)Trp;0.815,0.842,0.776,0.763,0.772,0.853,0.765,0.788,(3.3002)+(0.0337)Ser+(-0.0904)Asn+(0.0074)Gln+(-0.1355)His+(0.0226)Orn+(-0.0017)Lys;0.815,0.834,0.750,0.748,0.678,0.849,0.836,0.778,(1.2031)+(0.0294)Ser+(0.0004)Thr+(-0.0101)Ala+(-0.0317)

Arg+(-0.0543)Val+(0.1853)Ile;0.815,0.848,0.788,0.780,0.807,0.824,0.743,0.789,(3.6368)+(0.0301)Ser+(0.0018)Gln+(-0.0837)Cit+(-0.0039)Tyr+(0.0180)Leu+(-0.1725)Trp;0.814,0.842,0.797,0.788,0.817,0.825,0.758,0.797,(4.5880)+(0.0371)Ser+(-0.0053)Gly+(0.0038)Thr+(-0.0742)Cit+(0.0050)Val+(-0.1644)Trp;0.814,0.841,0.785,0.779,0.782,0.855,0.759,0.794,(2.9681)+(0.0364)Ser+(-0.0716)Asn+(0.0098)Gln+(-0.1438)His+(-0.0190)Arg+(0.0051)Val;0.814,0.847,0.752,0.738,0.747,0.796,0.768,0.762,(2.2676)+(0.0338)Ser+(-0.0161)Tyr+(0.0030)Orn+(-0.0138)Lys+(0.0641)Ile+(-0.1567)Trp;0.814,0.844,0.807,0.798,0.786,0.840,0.851,0.819,(2.5559)+(-0.0728)Asn+(0.0114)Gln+(-0.1542)His+(-0.0041)Ala+(0.0024)Leu+(0.0817)Phe;0.814,0.841,0.773,0.746,0.749,0.845,0.842,0.796,(3.4740)+(0.0072)Gln+(-0.1533)His+(0.0054)Thr+(-0.0068)Ala+(0.0089)Orn+(0.0529)Ile;0.814,0.839,0.808,0.805,0.836,0.832,0.739,0.803,(5.6325)+(0.0006)Gly+(0.0041)Gln+(-0.1099)Cit+(-0.0090)Arg+(0.0509)Orn+(-0.1634)Trp;0.814,0.852,0.787,0.803,0.769,0.773,0.791,0.784,(3.4110)+(0.0127)Thr+(-0.0077)Ala+(0.0084)Pro+(-0.0365)Tyr+(0.0934)Phe+(-0.1611)Trp;0.814,0.849,0.819,0.823,0.828,0.782,0.815,0.812,(4.0819)+(-0.0165)Asn+(0.0076)Pro+(-0.0022)Tyr+(-0.2053)Met+(0.1075)Phe+(-0.1420)Trp;0.814,0.848,0.754,0.720,0.763,0.824,0.777,0.771,(5.4785)+(0.0255)Asn+(-0.1322)His+(0.0320)Thr+(-0.2707)Met+(-0.0003)Lys+(0.0723)Ile;0.814,0.846,0.786,0.771,0.779,0.854,0.787,0.798,(2.3293)+(0.0416)Ser+(-0.0051)Gly+(0.0084)Gln+(-0.1442)His+(0.0087)Val+(-0.1477)Met;0.814,0.846,0.788,0.787,0.775,0.816,0.796,0.793,(5.7777)+(0.0115)Thr+(-0.0262)Arg+(-0.0029)Pro+(0.1530)Ile+(-0.0692)Leu+(-0.1441)Trp;0.814,0.842,0.806,0.815,0.820,0.817,0.744,0.799,(7.0918)+(-0.0426)Asn+(0.0253)Thr+(0.0077)Pro+(0.0082)Tyr+(-0.1756)Met+(-0.1408)Trp;0.814,0.839,0.714,0.680,0.727,0.800,0.714,0.730,(0.9201)+(0.0474)Ser+(-0.1642)His+(0.0043)Thr+(-0.0249)Arg+(0.0022)Pro+(0.0978)Phe;0.814,0.853,0.805,0.809,0.816,0.773,0.796,0.798,(2.6691

)+(0.0024)Gln+(0.0084)Thr+(-0.0103)Lys+(0.0014)Leu+(0.0736)Phe+(-0.1770)Trp;0.814,0.846,0.833,0.846,0.840,0.844,0.777,0.827,(5.5591)+(-0.0680)Asn+(0.0064)Gln+(0.0234)Thr+(0.0140)Tyr+(-0.1682)Met+(-0.1471)Trp;0.814,0.846,0.804,0.787,0.829,0.840,0.771,0.807,(8.6740)+(-0.0198)Asn+(-0.0651)His+(-0.0808)Cit+(0.0067)Tyr+(0.0584)Orn+(-0.1132)Trp;0.814,0.841,0.716,0.678,0.731,0.807,0.720,0.734,(0.8098)+(0.0475)Ser+(-0.1633)His+(-0.0244)Arg+(0.0019)Pro+(0.0129)Orn+(0.0943)Phe;0.814,0.850,0.802,0.804,0.811,0.844,0.745,0.801,(3.3329)+(0.0370)Ser+(0.0260)Tyr+(0.0017)Val+(-0.1946)Met+(0.0172)Orn+(-0.1452)Trp;0.814,0.848,0.782,0.782,0.783,0.814,0.758,0.784,(3.9520)+(0.0417)Ser+(-0.1105)Asn+(0.0060)Pro+(-0.0012)Lys+(0.0113)Leu+(-0.1424)Trp;0.814,0.846,0.787,0.773,0.748,0.850,0.861,0.808,(4.1499)+(0.0032)Pro+(0.0140)Tyr+(-0.0586)Val+(-0.3349)Met+(0.0077)Lys+(0.1915)Ile;0.814,0.842,0.790,0.800,0.779,0.840,0.753,0.793,(3.7243)+(0.0307)Ser+(0.0013)Gln+(-0.0064)Ala+(-0.0200)Arg+(0.0121)Pro+(-0.1422)Trp;0.814,0.840,0.772,0.751,0.761,0.852,0.796,0.790,(3.1363)+(0.0346)Ser+(-0.0057)Gly+(0.0056)Gln+(-0.1474)His+(-0.0031)Ala+(0.0217)Orn;0.814,0.844,0.806,0.802,0.823,0.786,0.796,0.802,(4.6918)+(-0.0864)Cit+(-0.0033)Arg+(0.0063)Pro+(-0.0040)Val+(0.0917)Phe+(-0.1694)Trp;0.814,0.847,0.800,0.779,0.794,0.851,0.835,0.815,(3.0074)+(0.0124)Gln+(-0.1313)His+(-0.0477)Cit+(-0.1906)Met+(-0.0012)Lys+(0.0690)Ile;0.814,0.840,0.708,0.666,0.712,0.797,0.745,0.730,(0.5477)+(0.0440)Ser+(-0.1682)His+(-0.0043)Thr+(0.0012)Pro+(0.0111)Orn+(0.0869)Phe;0.814,0.853,0.802,0.810,0.821,0.781,0.754,0.792,(3.9596)+(0.0183)Thr+(-0.0267)Arg+(-0.0083)Val+(-0.0019)Lys+(0.0938)Phe+(-0.1696)Trp;0.814,0.847,0.737,0.701,0.759,0.833,0.715,0.752,(3.3295)+(0.0424)Ser+(-0.1417)His+(0.0213)Thr+(0.0094)Tyr+(-0.2521)Met+(0.0328)Leu;0.814,0.843,0.737,0.706,0.730,0.830,0.769,0.759,(1.1951)+(0.0473)Ser+(-0.0012)Gly+(-0.1496)His+(-0.0050)Ala+(-0.0360)Cit+(0.1017)Phe;0.814,0.

842,0.800,0.785,0.824,0.839,0.764,0.803,(8.3014)+(-0.0710)His+(-0.073
5)Cit+(-0.0410)Met+(0.0551)Orn+(0.0062)Lys+(-0.1103)Trp;0.814,0.841,0
.779,0.771,0.776,0.854,0.753,0.788,(3.0591)+(0.0376)Ser+(-0.0795)Asn+
(0.0093)Gln+(-0.1363)His+(-0.0196)Arg+(0.0074)Pro;0.814,0.839,0.769,0
.751,0.732,0.844,0.839,0.792,(5.3024)+(0.0030)Gly+(-0.1027)His+(-0.00
78)Ala+(0.0028)Pro+(0.1224)Ile+(-0.0460)Leu;0.814,0.848,0.798,0.790,0
.802,0.819,0.797,0.802,(4.6513)+(0.0476)Ser+(-0.1132)Asn+(-0.0073)Gly
+(0.0083)Thr+(0.0132)Leu+(-0.1497)Trp;0.814,0.847,0.805,0.815,0.801,0
.849,0.757,0.805,(5.2037)+(0.0344)Ser+(-0.1007)Asn+(0.0094)Thr+(-0.00
25)Ala+(0.0016)Val+(-0.1367)Trp;0.814,0.847,0.793,0.782,0.807,0.830,0
.766,0.796,(7.8246)+(0.0029)Gly+(-0.0941)His+(0.0061)Val+(-0.0441)Met
+(0.0335)Orn+(-0.1009)Trp;0.814,0.846,0.807,0.810,0.809,0.828,0.781,0
.807,(4.0848)+(0.0466)Ser+(-0.0075)Gly+(0.0048)Val+(-0.1491)Met+(0.00
22)Lys+(-0.1417)Trp;0.814,0.843,0.797,0.777,0.825,0.833,0.767,0.800,(
8.3097)+(-0.0752)His+(-0.0800)Cit+(0.0027)Tyr+(0.0050)Val+(0.0549)Orn
+(-0.1197)Trp;0.814,0.843,0.739,0.697,0.723,0.820,0.823,0.766,(3.7873
)+(-0.1082)His+(-0.0652)Cit+(-0.0385)Val+(0.0397)Orn+(0.1158)Ile+(0.0
604)Phe;0.814,0.843,0.803,0.815,0.820,0.817,0.722,0.794,(7.4744)+(-0.
0369)Asn+(0.0285)Thr+(-0.0116)Arg+(0.0084)Pro+(-0.1627)Met+(-0.1378)T
rp;0.814,0.838,0.774,0.756,0.729,0.848,0.864,0.799,(6.1809)+(-0.0716)
His+(-0.0071)Ala+(-0.0437)Cit+(-0.0093)Tyr+(-0.0357)Val+(0.1520)Ile;0
.814,0.837,0.739,0.698,0.730,0.841,0.792,0.765,(3.3199)+(0.0460)Ser+(
-0.0040)Gly+(-0.1422)His+(-0.0067)Ala+(0.0089)Pro+(0.0198)Leu;0.814,0
.833,0.748,0.712,0.737,0.833,0.801,0.771,(2.4398)+(0.0391)Ser+(-0.005
7)Gly+(0.0055)Gln+(-0.1582)His+(-0.0163)Val+(0.0415)Leu;0.814,0.850,0
.814,0.826,0.814,0.773,0.814,0.807,(2.7838)+(-0.0012)Gly+(0.0021)Gln+
(-0.0082)Val+(0.0089)Orn+(0.0754)Phe+(-0.1663)Trp;0.814,0.843,0.764,0
.734,0.753,0.820,0.828,0.784,(2.1678)+(0.0088)Gln+(-0.1675)His+(0.007

7)Orn+(-0.0120)Lys+(0.0348)Ile+(0.0555)Phe;0.814,0.847,0.753,0.739,0.748,0.798,0.772,0.764,(2.2749)+(0.0341)Ser+(-0.0010)Pro+(-0.0144)Tyr+(-0.0135)Lys+(0.0661)Ile+(-0.1572)Trp;0.814,0.845,0.738,0.702,0.754,0.830,0.738,0.756,(3.1611)+(0.0504)Ser+(-0.0161)Asn+(-0.1282)His+(0.0095)Pro+(-0.1863)Met+(0.0256)Leu;0.814,0.844,0.818,0.807,0.846,0.844,0.771,0.817,(7.9484)+(-0.0405)Asn+(-0.1044)Cit+(0.0081)Tyr+(-0.0448)Met+(0.0572)Orn+(-0.1420)Trp;0.814,0.842,0.767,0.743,0.737,0.857,0.827,0.791,(5.7736)+(-0.1624)Asn+(0.0134)Thr+(-0.0842)Cit+(-0.0591)Val+(0.0511)Orn+(0.1667)Ile;0.814,0.841,0.709,0.667,0.713,0.799,0.745,0.731,(0.5777)+(0.0438)Ser+(-0.1689)His+(-0.0038)Thr+(0.0111)Orn+(0.0013)Leu+(0.0868)Phe;0.814,0.852,0.802,0.809,0.787,0.791,0.824,0.803,(3.3907)+(0.0083)Thr+(-0.0090)Ala+(0.0075)Pro+(0.0023)Orn+(0.0767)Phe+(-0.1683)Trp;0.814,0.851,0.818,0.822,0.815,0.809,0.821,0.817,(4.0087)+(-0.0016)Gly+(0.0161)Thr+(-0.0069)Ala+(-0.0078)Lys+(0.0860)Phe+(-0.1659)Trp;0.814,0.850,0.739,0.706,0.767,0.837,0.698,0.752,(3.7682)+(0.0419)Ser+(-0.1335)His+(0.0247)Thr+(-0.0382)Cit+(-0.2388)Met+(0.0336)Leu;0.814,0.848,0.797,0.795,0.773,0.801,0.853,0.805,(3.5897)+(-0.0083)Ala+(-0.0222)Tyr+(-0.0009)Orn+(0.0568)Ile+(0.0680)Phe+(-0.1650)Trp;0.814,0.847,0.819,0.814,0.813,0.825,0.837,0.822,(4.0645)+(-0.0368)Asn+(0.0067)Gln+(0.0023)Pro+(-0.1819)Met+(0.0602)Ile+(-0.1473)Trp;0.814,0.845,0.774,0.749,0.745,0.842,0.850,0.796,(5.5663)+(-0.1052)His+(-0.0073)Ala+(0.0228)Orn+(-0.0007)Lys+(0.1213)Ile+(-0.0487)Leu;0.814,0.844,0.801,0.802,0.807,0.840,0.762,0.803,(8.8017)+(-0.0908)His+(0.0248)Thr+(-0.0015)Ala+(-0.0126)Arg+(0.0099)Tyr+(-0.1085)Trp;0.814,0.842,0.790,0.786,0.742,0.856,0.855,0.810,(3.1229)+(0.0034)Gln+(-0.0504)Val+(-0.3171)Met+(0.0059)Lys+(0.2052)Ile+(-0.0196)Leu;0.814,0.850,0.802,0.799,0.785,0.825,0.825,0.809,(6.3989)+(-0.0294)Asn+(-0.0140)Arg+(-0.0013)Pro+(0.1481)Ile+(-0.0666)Leu+(-0.1310)Trp;0.814,0.847,0.778,0.796,0.776,0.736

,0.763,0.768,(2.5298)+(0.0018)Gln+(0.0090)Thr+(0.0031)Pro+(-0.0470)Tyr+(0.0877)Phe+(-0.1713)Trp;0.814,0.845,0.819,0.821,0.812,0.844,0.811,0.822,(5.2437)+(0.0476)Ser+(-0.0913)Asn+(-0.0069)Gly+(-0.0015)Ala+(0.0075)Tyr+(-0.1338)Trp;0.814,0.851,0.789,0.792,0.776,0.767,0.822,0.789,(2.5843)+(0.0032)Gln+(-0.0361)Tyr+(-0.0111)Lys+(0.0481)Ile+(0.0717)Phe+(-0.1710)Trp;0.814,0.846,0.813,0.822,0.806,0.851,0.777,0.814,(4.8449)+(0.0376)Ser+(-0.0987)Asn+(-0.0023)Ala+(0.0103)Tyr+(0.0031)Lys+(-0.1353)Trp;0.814,0.844,0.806,0.808,0.830,0.832,0.735,0.801,(7.9391)+(-0.0747)Asn+(0.0023)Gly+(0.0187)Thr+(-0.0749)Cit+(0.0071)Pro+(-0.1490)Trp;0.814,0.841,0.740,0.715,0.711,0.809,0.817,0.763,(3.7813)+(0.0039)Gly+(-0.1092)His+(-0.0209)Arg+(-0.0389)Val+(0.1239)Ile+(0.0750)Phe;0.814,0.848,0.803,0.797,0.786,0.810,0.847,0.810,(3.6186)+(0.0019)Gly+(-0.0089)Ala+(-0.0166)Arg+(0.0581)Ile+(0.0662)Phe+(-0.1679)Trp;0.814,0.843,0.820,0.818,0.835,0.852,0

.768,0.818,(5.9774)+(0.0040)Gln+(-0.0052)Ala+(-0.1149)Cit+(-0.0002)Tyr+(0.0559)Orn+(-0.1526)Trp;0.814,0.839,0.815,0.808,0.837,0.847,0.761,0.813,(7.5241)+(-0.0038)Ala+(-0.1089)Cit+(0.0018)Arg+(-0.0435)Met+(0.0603)Orn+(-0.1383)Trp;0.814,0.839,0.809,0.798,0.837,0.827,0.765,0.807,(7.7138)+(-0.0481)Asn+(-0.1092)Cit+(-0.0026)Tyr+(0.0554)Orn+(0.0091)Leu+(-0.1533)Trp;0.814,0.839,0.755,0.731,0.758,0.845,0.748,0.770,(2.2463)+(0.0359)Ser+(0.0078)Gln+(-0.1618)His+(-0.0193)Arg+(-0.0060)Lys+(0.0215)Leu;0.814,0.838,0.712,0.670,0.718,0.820,0.735,0.736,(2.5438)+(0.0434)Ser+(-0.1482)His+(0.0026)Thr+(-0.0197)Arg+(-0.0008)Pro+(0.0583)Ile;0.814,0.851,0.772,0.761,0.726,0.875,0.822,0.796,(-0.3031)+(0.0411)Ser+(-0.0082)Ala+(0.0120)Tyr+(-0.2826)Met+(0.1866)Ile+(-0.0758)Leu;0.814,0.848,0.758,0.725,0.767,0.825,0.782,0.775,(5.7698)+(-0.1284)His+(0.0326)Thr+(0.0005)Pro+(-0.2507)Met+(0.0005)Lys+(0.0686)Ile;0.814,0.848,0.816,0.825,0.809,0.798,0.822,0.814,(3.6886)+(-0.0015)Gly+(0.012

8)Thr+(-0.0064)Ala+(-0.0052)Val+(0.0874)Phe+(-0.1645)Trp;0.814,0.847,0.795,0.783,0.752,0.857,0.870,0.815,(5.0056)+(-0.0457)Asn+(0.0125)Tyr+(-0.0597)Val+(-0.2838)Met+(0.0102)Lys+(0.1943)Ile;0.814,0.847,0.791,0.777,0.751,0.859,0.858,0.811,(5.1085)+(-0.0469)Cit+(0.0050)Arg+(-0.0465)Val+(-0.2533)Met+(0.2013)Ile+(-0.0199)Leu;0.814,0.846,0.795,0.772,0.784,0.847,0.839,0.810,(3.0445)+(-0.0024)Asn+(0.0112)Gln+(-0.1409)His+(0.0035)Tyr+(-0.1972)Met+(0.0643)Ile;0.814,0.844,0.745,0.718,0.716,0.835,0.815,0.771,(3.6131)+(0.0039)Gly+(-0.1486)His+(0.0106)Thr+(-0.0075)Ala+(0.0446)Ile+(0.0589)Phe;0.814,0.838,0.799,0.790,0.828,0.828,0.741,0.797,(6.9116)+(-0.1095)Cit+(-0.0054)Arg+(0.0060)Pro+(-0.0017)Val+(0.0535)Orn+(-0.1583)Trp;0.814,0.835,0.750,0.721,0.733,0.843,0.791,0.772,(2.4911)+(0.0328)Ser+(0.0050)Gln+(-0.1539)His+(-0.0040)Ala+(-0.0136)Val+(0.0427)Leu;0.814,0.854,0.807,0.819,0.815,0.780,0.779,0.798,(3.9679)+(-0.0217)Arg+(0.0047)Pro+(-0.0099)Val+(0.0181)Orn+(0.0829)Phe+(-0.1565)Trp;0.814,0.850,0.755,0.741,0.756,0.805,0.751,0.763,(2.2325)+(0.0375)Ser+(-0.0210)Arg+(0.0058)Orn+(-0.0104)Lys+(0.0632)Ile+(-0.1615)Trp;0.814,0.848,0.789,0.774,0.752,0.854,0.861,0.810,(5.0525)+(-0.0456)Cit+(0.0057)Arg+(0.0034)Pro+(-0.0527)Val+(-0.2714)Met+(0.1842)Ile;0.814,0.848,0.821,0.838,0.816,0.851,0.763,0.817,(4.0062)+(0.0359)Ser+(-0.1050)Asn+(0.0047)Gln+(-0.0126)Arg+(0.0009)Val+(-0.1347)Trp;0.814,0.846,0.754,0.733,0.752,0.850,0.747,0.770,(3.7822)+(0.0460)Ser+(-0.1192)His+(-0.0049)Ala+(0.0146)Pro+(0.0070)Val+(-0.1514)Met;0.814,0.845,0.741,0.702,0.754,0.829,0.756,0.760,(3.0714)+(0.0536)Ser+(-0.0031)Gly+(-0.1288)His+(0.0096)Pro+(-0.1970)Met+(0.0253)Leu;0.814,0.841,0.808,0.805,0.794,0.832,0.827,0.814,(2.5450)+(-0.0701)Asn+(0.0131)Gln+(-0.1523)His+(-0.0179)Arg+(-0.0064)Val+(0.0939)Phe;0.814,0.845,0.826,0.841,0.829,0.839,0.769,0.820,(5.5630)+(-0.0704)Asn+(0.0059)Gln+(0.0215)Thr+(-0.1480)Met+(0.0131)Orn+(-0.1425)Trp;0.814,0.842,0.800,0.801,0

.798,0.830,0.783,0.803,(8.3553)+(0.0032)Gly+(-0.0740)His+(-0.0029)Ala+(0.0124)Pro+(-0.0447)Met+(-0.0943)Trp;0.814,0.840,0.790,0.783,0.798,0.816,0.773,0.793,(7.9874)+(-0.0101)Asn+(0.0036)Gly+(-0.0903)His+(0.0068)Pro+(0.0062)Val+(-0.1054)Trp;0.814,0.838,0.745,0.707,0.745,0.829,0.784,0.766,(2.1564)+(0.0376)Ser+(-0.0053)Gly+(0.0056)Gln+(-0.1676)His+(0.0105)Orn+(0.0153)Leu;0.814,0.838,0.775,0.758,0.755,0.821,0.830,0.791,(2.5590)+(0.0089)Gln+(-0.1630)His+(-0.0151)Val+(-0.0076)Lys+(0.0271)Leu+(0.0726)Phe;0.814,0.842,0.794,0.800,0.749,0.828,0.850,0.807,(1.0135)+(-0.0073)Ala+(-0.0267)Tyr+(-0.2394)Met+(0.1851)Ile+(-0.0957)Leu+(0.1136)Phe;0.814,0.840,0.760,0.734,0.728,0.834,0.840,0.784,(6.1120)+(-0.0767)Asn+(-0.0793)His+(-0.0423)Val+(0.0326)Orn+(0.0010)Lys+(0.1368)Ile;0.814,0.846,0.792,0.785,0.746,0.849,0.863,0.811,(5.2031)+(-0.0499)Asn+(0.0042)Pro+(-0.0591)Val+(-0.2732)Met+(0.0114)Lys+(0.1879)Ile;0.814,0.845,0.724,0.685,0.732,0.817,0.741,0.744,(0.0511)+(0.0373)Ser+(0.0044)Gln+(-0.1713)His+(-0.0592)Cit+(0.0238)Orn+(0.0836)Phe;0.814,0.844,0.777,0.757,0.779,0.824,0.789,0.788,(3.6838)+(0.0070)Gly+(-0.1193)His+(-0.0238)Val+(-0.2289)Met+(0.0437)Leu+(0.1277)Phe;0.814,0.844,0.783,0.756,0.760,0.853,0.851,0.805,(3.7021)+(0.0082)Gln+(-0.1457)His+(-0.0064)Ala+(0.0139)Orn+(-0.0076)Lys+(0.0564)Ile;0.814,0.838,0.805,0.792,0.836,0.828,0.762,0.804,(7.1936)+(-0.1076)Cit+(-0.0675)Met+(0.0542)Orn+(-0.0035)Lys+(0.0138)Leu+(-0.1530)Trp;0.814,0.851,0.815,0.819,0.810,0.810,0.814,0.813,(3.7273)+(0.0137)Thr+(-0.0070)Ala+(0.0071)Orn+(-0.0081)Lys+(0.0834)Phe+(-0.1639)Trp;0.814,0.848,0.792,0.769,0.808,0.828,0.796,0.800,(7.9396)+(0.0076)Asn+(-0.0972)His+(-0.0605)Met+(0.0327)Orn+(0.0221)Leu+(-0.1082)Trp;0.814,0.847,0.752,0.720,0.764,0.820,0.760,0.766,(5.7648)+(0.0301)Asn+(-0.1308)His+(0.0352)Thr+(-0.0112)Arg+(-0.2702)Met+(0.0720)Ile;0.814,0.843,0.796,0.778,0.786,0.846,0.830,0.810,(3.1347)+(-0.0008)Asn+(0.0123)Gln+(-0.1399)His+(-0.0116)Arg+

(-0.1802)Met+(0.0639)Ile;0.814,0.841,0.751,0.739,0.695,0.857,0.824,0.779,(2.9203)+(0.0430)Ser+(-0.1703)Asn+(-0.0125)Tyr+(-0.0538)Val+(-0.0029)Lys+(0.1731)Ile;0.814,0.844,0.802,0.794,0.784,0.835,0.839,0.813,(5.9297)+(-0.0660)Asn+(0.0004)Gly+(0.0163)Thr+(-0.0078)Ala+(0.0631)Ile+(-0.1548)Trp;0.814,0.839,0.779,0.756,0.768,0.836,0.827,0.797,(3.7507)+(-0.0809)Asn+(0.0100)Gln+(-0.1543)His+(0.0119)Thr+(-0.0033)Pro+(0.0470)Ile;0.814,0.846,0.800,0.788,0.810,0.827,0.791,0.804,(8.0613)+(-0.0263)Asn+(-0.0911)His+(0.0020)Tyr+(0.0331)Orn+(0.0087)Lys+(-0.1051)Trp;0.814,0.844,0.796,0.794,0.816,0.831,0.731,0.793,(3.8811)+(0.0287)Ser+(0.0021)Gln+(0.0009)Thr+(-0.0832)Cit+(0.0056)Val+(-0.1671)Trp;0.814,0.842,0.801,0.794,0.796,0.822,0.812,0.806,(8.0395)+(-0.0865)His+(-0.0042)Ala+(0.0107)Pro+(0.0064)Tyr+(0.0099)Lys+(-0.1086)Trp;0.814,0.839,0.724,0.688,0.732,0.803,0.741,0.741,(1.0098)+(0.0513)Ser+(-0.0020)Gly+(-0.1613)His+(-0.0217)Arg+(0.0018)Leu+(0.0970)Phe;0.814,0.847,0.787,0.790,0.794,0.821,0.743,0.787,(3.1831)+(0.0414)Ser+(-0.0082)Arg+(-0.1746)Met+(0.0015)Lys+(0.0227)Leu+(-0.1447)Trp;0.814,0.849,0.813,0.790,0.830,0.823,0.829,0.818,(6.5201)+(-0.0682)Cit+(0.0032)Pro+(0.0171)Tyr+(-0.1435)Met+(0.0655)Ile+(-0.1569)Trp;0.814,0.843,0.783,0.773,0.772,0.820,0.809,0.793,(2.0337)+(-0.0859)Asn+(0.0038)Gly+(0.0108)Gln+(-0.1607)His+(0.0001)Pro+(0.0834)Phe;0.814,0.846,0.786,0.787,0.789,0.824,0.753,0.788,(3.8976)+(0.0406)Ser+(-0.1084)Asn+(0.0169)Orn+(-0.0032)Lys+(0.0131)Leu+(-0.1410)Trp;0.814,0.843,0.813,0.797,0.803,0.835,0.857,0.823,(5.7706)+(-0.0074)Ala+(0.0069)Pro+(0.0186)Tyr+(-0.1664)Met+(0.0695)Ile+(-0.1428)Trp;0.814,0.839,0.733,0.703,0.726,0.837,0.756,0.755,(4.6825)+(0.0427)Ser+(-0.1098)Asn+(-0.1251)His+(0.0156)Thr+(-0.0303)Val+(0.0652)Leu;0.814,0.850,0.824,0.836,0.830,0.788,0.807,0.815,(3.5439)+(-0.0092)Val+(-0.2204)Met+(0.0153)Orn+(0.0073)Lys+(0.1149)Phe+(-0.1362)Trp;0.814,0.847,0.818,0.832,0.812,0.845,0.776,0.816,(3.9276)+(0.

0346)Ser+(-0.1184)Asn+(0.0039)Gln+(0.0033)Tyr+(0.0016)Lys+(-0.1386)Trp;0.814,0.840,0.805,0.793,0.805,0.826,0.818,0.811,(8.4293)+(-0.0853)His+(-0.0044)Ala+(0.0095)Pro+(0.0105)Tyr+(0.0064)Val+(-0.1088)Trp;0.814,0.839,0.779,0.758,0.792,0.812,0.784,0.786,(7.4824)+(0.0040)Gly+(-0.1031)His+(0.0046)Pro+(0.0072)Tyr+(0.0227)Leu+(-0.1147)Trp;0.814,0.839,0.768,0.760,0.700,0.846,0.874,0.795,(4.4544)+(-0.0122)Ala+(-0.0741)Cit+(0.0095)Pro+(-0.0262)Tyr+(-0.0477)Val+(0.1730)Ile;0.814,0.836,0.748,0.742,0.682,0.855,0.827,0.777,(1.1967)+(0.0274)Ser+(-0.0103)Ala+(-0.0354)Arg+(-0.0564)Val+(0.0213)Orn+(0.1841)Ile;0.814,0.846,0.832,0.843,0.828,0.811,0.828,0.827,(4.6085)+(-0.0541)Asn+(0.0024)Gly+(-0.0047)Ala+(-0.0086)Arg+(0.0936)Phe+(-0.1481)Trp;0.814,0.842,0.748,0.738,0.689,0.851,0.824,0.776,(2.9154)+(0.0426)Ser+(-0.1760)Asn+(0.0014)Pro+(-0.0151)Tyr+(-0.0544)Val+(0.1710)Ile;0.814,0.839,0.782,0.757,0.776,0.838,0.824,0.799,(3.6738)+(-0.0868)Asn+(0.0111)Gln+(-0.1443)His+(0.0123)Thr+(-0.0499)Cit+(0.0469)Ile;0.814,0.847,0.790,0.787,0.771,0.813,0.824,0.799,(5.0776)+(-0.0003)Gly+(-0.0038)Pro+(-0.0009)Lys+(0.1457)Ile+(-0.0650)Leu+(-0.1441)Trp;0.814,0.848,0.786,0.805,0.797,0.758,0.736,0.774,(2.7359)+(0.0034)Gln+(0.0186)Thr+(-0.0292)Arg+(-0.0430)Tyr+(0.0989)Phe+(-0.1733)Trp;0.814,0.844,0.809,0.802,0.827,0.793,0.801,0.806,(4.8332)+(-0.0926)Cit+(0.0014)Arg+(0.0055)Pro+(-0.0054)Lys+(0.0911)Phe+(-0.1706)Trp;0.814,0.841,0.726,0.704,0.718,0.778,0.760,0.740,(4.3187)+(-0.1444)His+(0.0221)Thr+(-0.0445)Cit+(-0.0652)Tyr+(0.0399)Ile+(0.0903)Phe;0.814,0.838,0.785,0.787,0.767,0.810,0.796,0.790,(2.0724)+(0.0118)Gln+(-0.1626)His+(-0.0223)Arg+(-0.0406)Tyr+(0.0004)Leu+(0.1032)Phe;0.814,0.849,0.772,0.767,0.744,0.814,0.811,0.784,(-2.6133)+(0.0540)Ser+(-0.0052)Gly+(-0.0444)Val+(-0.4057)Met+(0.0669)Leu+(0.1240)Phe;0.814,0.845,0.790,0.772,0.780,0.846,0.815,0.803,(2.9879)+(0.0027)Gly+(0.0116)Gln+(-0.1403)His+(-0.0120)Arg+(-0.1848)Met+(0.0662)Ile;0.814,0.8

40,0.792,0.780,0.812,0.821,0.764,0.794,(6.6889)+(-0.1075)Cit+(-0.0075)Tyr+(-0.0219)Val+(0.0572)Orn+(0.0449)Leu+(-0.1605)Trp;0.814,0.840,0.761,0.741,0.734,0.857,0.798,0.783,(5.3506)+(-0.1505)Asn+(0.0051)Gly+(-0.0910)Cit+(-0.0570)Val+(0.0553)Orn+(0.1654)Ile;0.814,0.850,0.786,0.778,0.797,0.810,0.765,0.787,(5.5948)+(0.0285)Thr+(-0.0144)Arg+(-0.2300)Met+(0.0021)Orn+(0.0655)Ile+(-0.1522)Trp;0.814,0.842,0.768,0.755,0.725,0.830,0.845,0.789,(4.0876)+(-0.1729)Asn+(0.0257)Thr+(-0.0268)Arg+(-0.0674)Val+(0.1776)Ile+(0.0745)Phe;0.814,0.842,0.802,0.788,0.809,0.814,0.817,0.807,(6.8366)+(-0.0323)Asn+(-0.0754)Cit+(0.0023)Pro+(-0.0046)Tyr+(0.0593)Ile+(-0.1619)Trp;0.814,0.849,0.796,0.785,0.808,0.824,0.777,0.799,(8.1677)+(-0.0820)His+(-0.0048)Arg+(0.0079)Pro+(-0.0526)Met+(0.0353)Orn+(-0.0986)Trp;0.814,0.845,0.802,0.806,0.819,0.843,0.728,0.799,(4.5182)+(0.0267)Ser+(0.0024)Gln+(0.0049)Thr+(-0.0763)Cit+(-0.0044)Lys+(-0.1542)Trp;0.814,0.842,0.804,0.794,0.811,0.830,0.795,0.808,(6.8029)+(0.0146)Thr+(-0.0083)Ala+(-0.0838)Cit+(0.0113)Pro+(0.0189)Leu+(-0.1649)Trp;0.814,0.841,0.798,0.789,0.804,0.808,0.802,0.801,(8.1364)+(-0.0202)Asn+(-0.0885)His+(0.0069)Pro+(0.0029)Val+(0.0100)Lys+(-0.1114)Trp;0.814,0.840,0.763,0.747,0.756,0.851,0.756,0.778,(3.2951)+(0.0282)Ser+(0.0053)Gln+(-0.1441)His+(-0.0027)Ala+(0.0248)Orn+(-0.0053)Lys;0.814,0.838,0.796,0.790,0.830,0.828,0.715,0.791,(6.7873)+(0.0007)Gly+(0.0090)Thr+(-0.1085)Cit+(-0.0088)Arg+(0.0512)Orn+(-0.1628)Trp;0.814,0.838,0.805,0.796,0.835,0.822,0.753,0.801,(5.4172)+(0.0041)Gln+(-0.1122)Cit+(-0.0084)Arg+(0.0479)Orn+(0.0092)Leu+(-0.1730)Trp;0.814,0.847,0.756,0.726,0.768,0.825,0.765,0.771,(6.1090)+(-0.1262)His+(0.0355)Thr+(-0.0098)Arg+(0.0007)Pro+(-0.2453)Met+(0.0680)Ile;0.814,0.847,0.800,0.790,0.812,0.839,0.776,0.804,(7.7611)+(0.0031)Gly+(-0.0881)His+(0.0203)Tyr+(-0.0671)Met+(0.0341)Orn+(-0.0995)Trp;0.814,0.846,0.792,0.769,0.782,0.847,0.835,0.808,(3

.1524)+(0.0106)Gln+(-0.1409)His+(-0.1908)Met+(0.0084)Orn+(-0.0010)Lys+(0.0625)Ile;0.814,0.841,0.804,0.809,0.811,0.849,0.740,0.802,(5.1189)+(0.0318)Ser+(-0.0022)Ala+(-0.0660)Cit+(-0.0031)Arg+(0.0002)Lys+(-0.1429)Trp;0.814,0.840,0.774,0.750,0.765,0.825,0.819,0.790,(1.7511)+(0.0113)Gln+(-0.1740)His+(-0.0233)Arg+(-0.0032)Pro+(0.0343)Ile+(0.0583)Phe;0.814,0.839,0.751,0.731,0.738,0.848,0.764,0.770,(2.8621)+(0.0300)Ser+(0.0045)Gln+(-0.1461)His+(-0.0059)Ala+(0.0094)Pro+(0.0187)Orn;0.814,0.850,0.789,0.779,0.803,0.812,0.774,0.792,(5.5289)+(0.0284)Thr+(-0.0143)Arg+(0.0100)Tyr+(-0.2430)Met+(0.0654)Ile+(-0.1547)Trp;0.814,0.846,0.787,0.763,0.802,0.817,0.797,0.795,(7.7050)+(-0.1050)His+(-0.0013)Tyr+(0.0300)Orn+(0.0035)Lys+(0.0186)Leu+(-0.1142)Trp;0.814,0.841,0.807,0.792,0.829,0.838,0.776,0.809,(7.0294)+(-0.0061)Ala+(-0.1168)Cit+(0.0008)Arg+(0.0567)Orn+(0.0157)Leu+(-0.1581)Trp;0.814,0.840,0.765,0.746,0.756,0.853,0.773,0.782,(2.3317)+(0.0348)Ser+(0.0077)Gln+(-0.1591)His+(-0.0037)Ala+(-0.0206)Arg+(0.0222)Leu;0.814,0.842,0.785,0.793,0.779,0.837,0.742,0.788,(4.1189)+(0.0309)Ser+(0.0035)Thr+(-0.0064)Ala+(-0.0205)Arg+(0.0120)Pro+(-0.1427)Trp;0.814,0.840,0.763,0.740,0.738,0.844,0.822,0.786,(4.1251)+(-0.0394)Asn+(0.0063)Gly+(-0.1334)His+(-0.0068)Ala+(0.0457)Ile+(0.0673)Phe;0.814,0.838,0.779,0.757,0.765,0.837,0.821,0.795,(3.4442)+(-0.0625)Asn+(0.0023)Gly+(0.0103)Gln+(-0.1481)His+(-0.0039)Lys+(0.0475)Ile;0.814,0.840,0.797,0.789,0.825,0.830,0.738,0.796,(7.1686)+(-0.1135)Cit+(0.0065)Pro+(-0.0105)Tyr+(0.0563)Orn+(-0.0045)Lys+(-0.1523)Trp;0.814,0.847,0.813,0.819,0.822,0.771,0.807,0.805,(3.4959)+(0.0079)Pro+(-0.2390)Met+(0.0059)Lys+(-0.0035)Leu+(0.1083)Phe+(-0.1466)Trp;0.814,0.847,0.760,0.746,0.737,0.824,0.796,0.776,(-3.6649)+(0.0566)Ser+(-0.0715)Asn+(-0.0070)Ala+(-0.3327)Met+(0.0616)Ile+(0.0888)Phe;0.814,0.847,0.775,0.769,0.773,0.855,0.739,0.784,(2.6653)+(0.0381)Ser+(0.0085)Gln+(-0.1320)His+(-0.0175)Arg+(0.0121)Pro+(-0.1583)Met;

0.814,0.845,0.786,0.786,0.774,0.809,0.798,0.792,(5.9429)+(-0.0219)Arg+(-0.0167)Tyr+(0.0183)Orn+(0.1502)Ile+(-0.0705)Leu+(-0.1297)Trp;0.814,0.843,0.797,0.780,0.797,0.824,0.825,0.806,(8.2931)+(-0.0893)His+(-0.0044)Ala+(0.0004)Arg+(0.0091)Pro+(0.0228)Leu+(-0.1110)Trp;0.814,0.850,0.820,0.837,0.816,0.847,0.762,0.816,(3.9911)+(0.0353)Ser+(-0.1114)Asn+(0.0046)Gln+(-0.0151)Arg+(0.0049)Lys+(-0.1373)Trp;0.814,0.848,0.830,0.839,0.835,0.805,0.815,0.824,(3.6860)+(0.0024)Gly+(-0.0024)Ala+(-0.0036)Arg+(-0.1832)Met+(0.1165)Phe+(-0.1401)Trp;0.814,0.845,0.800,0.794,0.806,0.838,0.772,0.802,(7.9948)+(0.0023)Gly+(-0.0859)His+(-0.0009)Ala+(-0.0323)Met+(0.0383)Orn+(-0.0939)Trp;0.814,0.842,0.719,0.682,0.734,0.808,0.722,0.736,(0.8758)+(0.0472)Ser+(-0.1628)His+(-0.0239)Arg+(0.0141)Orn+(-0.0005)Leu+(0.0964)Phe;0.814,0.854,0.811,0.813,0.822,0.772,0.808,0.804,(2.9744)+(-0.0022)Gly+(0.0026)Gln+(0.0100)Thr+(-0.0104)Lys+(0.0728)Phe+(-0.1766)Trp;0.814,0.852,0.823,0.836,0.821,0.783,0.825,0.816,(2.7204)+(-0.0009)Gly+(0.0031)Gln+(-0.0061)Val+(-0.0049)Lys+(0.0820)Phe+(-0.1659)Trp;0.814,0.848,0.800,0.806,0.796,0.827,0.775,0.801,(3.3143)+(0.0382)Ser+(-0.1190)Asn+(0.0036)Gln+(-0.0021)Lys+(0.0147)Leu+(-0.1445)Trp;0.814,0.847,0.797,0.788,0.808,0.833,0.773,0.800,(7.9445)+(-0.0208)Asn+(0.0027)Gly+(-0.0898)His+(0.0091)Tyr+(0.0349)Orn+(-0.0995)Trp;0.814,0.843,0.807,0.819,0.807,0.831,0.757,0.803,(6.9434)+(-0.0016)Gly+(0.0250)Thr+(-0.0043)Ala+(0.0114)Pro+(-0.1787)Met+(-0.1375)Trp;0.814,0.847,0.823,0.828,0.833,0.802,0.806,0.817,(3.0597)+(0.0052)Gln+(-0.0892)Cit+(-0.0084)Arg+(-0.0023)Val+(0.0918)Phe+(-0.1759)Trp;0.814,0.851,0.812,0.809,0.804,0.830,0.825,0.817,(0.9924)+(0.0137)Gln+(-0.1530)His+(-0.0124)Arg+(-0.0105)Tyr+(-0.2073)Met+(0.1279)Phe;0.814,0.850,0.811,0.801,0.818,0.788,0.841,0.812,(3.5385)+(0.0039)Tyr+(-0.2407)Met+(-0.0025)Orn+(0.0536)Ile+(0.0873)Phe+(-0.1536)Trp;0.814,0.848,0.797,0.794,0.758,0.834,0.863,0.812,(0.8541)+(-0.0092)Ala+(0.0066

)Pro+(-0.2869)Met+(0.1751)Ile+(-0.0916)Leu+(0.1050)Phe;0.814,0.839,0.810,0.806,0.837,0.832,0.745,0.805,(5.6755)+(0.0042)Gln+(-0.1093)Cit+(-0.0090)Arg+(0.0000)Val+(0.0508)Orn+(-0.1635)Trp;0.814,0.848,0.786,0.805,0.797,0.770,0.726,0.775,(3.9416)+(0.0230)Thr+(-0.0265)Arg+(-0.0411)Tyr+(-0.0080)Val+(0.1129)Phe+(-0.1600)Trp;0.814,0.847,0.739,0.707,0.760,0.831,0.715,0.753,(3.6997)+(0.0426)Ser+(-0.0211)Asn+(-0.1374)His+(0.0222)Thr+(-0.2212)Met+(0.0324)Leu;0.814,0.844,0.791,0.777,0.810,0.818,0.769,0.794,(4.2739)+(0.0400)Ser+(-0.0048)Gly+(-0.0698)Cit+(-0.0063)Arg+(0.0175)Leu+(-0.1676)Trp;0.814,0.842,0.816,0.824,0.841,0.843,0.723,0.808,(7.9108)+(-0.0004)Gly+(0.0291)Thr+(-0.0601)Cit+(-0.0034)Arg+(-0.1472)Met+(-0.1408)Trp;0.814,0.839,0.766,0.740,0.774,0.831,0.768,0.778,(7.0001)+(-0.0203)Asn+(-0.1162)His+(0.0416)Thr+(-0.0346)Val+(-0.2407)Met+(0.0789)Leu;0.814,0.839,0.721,0.705,0.673,0.817,0.795,0.747,(-0.7874)+(0.0363)Ser+(-0.0354)Arg+(-0.0566)Val+(-0.0185)Lys+(0.1663)Ile+(0.0577)Phe;0.814,0.854,0.805,0.809,0.814,0.774,0.795,0.798,(2.6865)+(0.0023)Gln+(0.0080)Thr+(0.0027)Orn+(-0.0102)Lys+(0.0732)Phe+(-0.1755)Trp;0.814,0.846,0.745,0.722,0.754,0.844,0.715,0.759,(3.5918)+(0.0420)Ser+(-0.1223)His+(0.0112)Pro+(-0.1809)Met+(0.0241)Orn+(0.0031)Lys;0.814,0.833,0.761,0.737,0.754,0.837,0.786,0.778,(2.4827)+(0.0376)Ser+(-0.0055)Gly+(0.0067)Gln+(-0.1590)His+(-0.0021)Thr+(0.0047)Val;0.814,0.845,0.807,0.818,0.799,0.844,0.766,0.807,(4.8438)+(0.0375)Ser+(-0.0940)Asn+(-0.0021)Ala+(0.0020)Val+(0.0028)Lys+(-0.1347)Trp;0.814,0.844,0.762,0.738,0.761,0.782,0.812,0.773,(1.9145)+(0.0396)Ser+(-0.0076)Gly+(-0.0016)Pro+(-0.0048)Orn+(0.0544)Ile+(-0.1771)Trp;0.814,0.848,0.813,0.820,0.804,0.795,0.826,0.811,(2.6407)+(0.0022)Gln+(0.0086)Thr+(-0.0076)Ala+(0.0038)Leu+(0.0769)Phe+(-0.1746)Trp;0.814,0.844,0.792,0.774,0.765,0.849,0.856,0.811,(6.3258)+(-0.0792)His+(-0.0067)Ala+(0.0054)Pro+(-0.1360)Met+(0.1369)Ile+(-0.0506)Leu;0.814,0.838,0.779,0.761,

0.751,0.843,0.840,0.799,(3.5876)+(0.0009)Gly+(0.0081)Gln+(-0.1449)His+(-0.0058)Ala+(-0.0164)Tyr+(0.0587)Ile;0.814,0.842,0.808,0.793,0.831,0.838,0.778,0.810,(7.0226)+(-0.0062)Ala+(-0.1166)Cit+(0.0027)Tyr+(0.0566)Orn+(0.0156)Leu+(-0.1589)Trp;0.814,0.841,0.772,0.759,0.763,0.849,0.768,0.785,(3.0134)+(0.0361)Ser+(-0.0935)Asn+(0.0080)Gln+(-0.1365)His+(0.0069)Pro+(-0.0003)Lys;0.814,0.840,0.807,0.799,0.793,0.836,0.836,0.816,(2.5315)+(-0.0882)Asn+(0.0127)Gln+(-0.1452)His+(-0.0431)Cit+(-0.0055)Val+(0.0951)Phe;0.814,0.839,0.795,0.782,0.827,0.815,0.750,0.794,(6.6150)+(-0.1125)Cit+(-0.0045)Arg+(0.0046)Pro+(0.0505)Orn+(0.0075)Leu+(-0.1684)Trp;0.814,0.850,0.795,0.784,0.796,0.769,0.840,0.797,(2.6434)+(-0.0006)Gly+(0.0029)Gln+(-0.0132)Lys+(0.0472)Ile+(0.0538)Phe+(-0.1804)Trp;0.814,0.844,0.781,0.765,0.744,0.854,0.849,0.803,(4.0419)+(0.0028)Gly+(0.0024)Pro+(0.0199)Tyr+(-0.0568)Val+(-0.3243)Met+(0.1924)Ile;0.814,0.844,0.805,0.795,0.792,0.823,0.844,0.814,(5.7780)+(-0.0071)Ala+(0.0070)Pro+(-0.1453)Met+(0.0092)Orn+(0.0664)Ile+(-0.1386)Trp;0.814,0.843,0.807,0.797,0.791,0.822,0.852,0.816,(5.9863)+(-0.0025)Asn+(-0.0070)Ala+(0.0076)Pro+(-0.1388)Met+(0.0690)Ile+(-0.1384)Trp;0.814,0.840,0.794,0.789,0.781,0.859,0.789,0.805,(2.9946)+(0.0392)Ser+(-0.0058)Gly+(0.0082)Gln+(-0.1316)His+(0.0007)Ala+(-0.1272)Met;0.814,0.838,0.716,0.681,0.728,0.799,0.724,0.733,(0.8277)+(0.0490)Ser+(-0.1622)His+(-0.0233)Arg+(0.0027)Pro+(0.0005)Leu+(0.0976)Phe;0.814,0.853,0.771,0.767,0.731,0.871,0.795,0.791,(0.5736)+(0.0439)Ser+(-0.0077)Ala+(-0.0226)Arg+(-0.2214)Met+(0.1970)Ile+(-0.0818)Leu;0.814,0.845,0.814,0.829,0.818,0.819,0.767,0.808,(5.2637)+(-0.0031)Gly+(0.0048)Gln+(0.0228)Thr+(0.0078)Pro+(-0.2188)Met+(-0.1471)Trp;0.814,0.847,0.807,0.789,0.819,0.819,0.822,0.812,(6.6307)+(-0.0670)Cit+(0.0041)Pro+(-0.1214)Met+(0.0007)Lys+(0.0648)Ile+(-0.1532)Trp;0.814,0.837,0.798,0.792,0.831,0.831,0.725,0.795,(6.9639)+(0.0019)Gly+(-0.1145)Cit+(-0.0007)Arg+(0.0580)Orn+

(-0.0046)Lys+(-0.1519)Trp;0.814,0.836,0.749,0.718,0.756,0.843,0.752,0.767,(2.3792)+(0.0358)Ser+(0.0070)Gln+(-0.1547)His+(-0.0406)Cit+(-0.0118)Lys+(0.0256)Leu;0.814,0.850,0.813,0.820,0.818,0.805,0.788,0.808,(4.1449)+(0.0208)Thr+(-0.0068)Ala+(-0.0246)Arg+(-0.0030)Lys+(0.0943)Phe+(-0.1701)Trp;0.814,0.849,0.829,0.843,0.819,0.816,0.823,0.825,(2.9633)+(0.0057)Gln+(-0.0051)Ala+(-0.0928)Cit+(-0.0210)Tyr+(0.1097)Phe+(-0.1644)Trp;0.814,0.843,0.801,0.811,0.814,0.817,0.737,0.795,(6.8844)+(-0.0456)Asn+(0.0231)Thr+(0.0072)Pro+(-0.1641)Met+(0.0140)Orn+(-0.1381)Trp;0.814,0.842,0.800,0.798,0.820,0.840,0.736,0.798,(4.0003)+(0.0304)Ser+(0.0029)Gln+(-0.0843)Cit+(0.0080)Val+(-0.0074)Lys+(-0.1625)Trp;0.814,0.842,0.807,0.800,0.806,0.835,0.807,0.812,(8.4820)+(-0.0710)His+(-0.0046)Ala+(-0.0390)Cit+(0.0129)Pro+(0.0100)Lys+(-0.1114)Trp;0.814,0.840,0.714,0.682,0.714,0.815,0.725,0.734,(3.0862)+(0.0410)Ser+(-0.1419)His+(0.0070)Thr+(-0.0199)Arg+(-0.0249)Tyr+(0.0622)Ile;0.814,0.840,0.792,0.784,0.825,0.824,0.723,0.789,(6.5565)+(0.0020)Gly+(-0.1129)Cit+(-0.0055)Arg+(0.0057)Pro+(0.0521)Orn+(-0.1617)Trp;0.814,0.836,0.767,0.751,0.757,0.810,0.800,0.779,(2.5716)+(0.0080)Gln+(-0.1698)His+(0.0114)Thr+(-0.0032)Val+(-0.0096)Lys+(0.0836)Phe;0.814,0.850,0.834,0.841,0.838,0.810,0.824,0.828,(3.5264)+(0.0025)Gly+(-0.0027)Ala+(0.0100)Tyr+(-0.2031)Met+(0.1140)Phe+(-0.1421)Trp;0.814,0.848,0.828,0.836,0.838,0.799,0.808,0.820,(3.7774)+(-0.0224)Asn+(0.0027)Gly+(0.0054)Tyr+(-0.1952)Met+(0.1118)Phe+(-0.1414)Trp;0.814,0.848,0.819,0.833,0.812,0.847,0.775,0.817,(3.9359)+(0.0349)Ser+(-0.1160)Asn+(0.0040)Gln+(0.0039)Tyr+(0.0001)Val+(-0.1376)Trp;0.814,0.843,0.791,0.773,0.785,0.823,0.831,0.803,(8.2448)+(-0.0851)His+(-0.0041)Ala+(0.0099)Pro+(-0.0178)Val+(0.0506)Leu+(-0.1084)Trp;0.814,0.840,0.790,0.783,0.781,0.829,0.798,0.798,(1.9491)+(-0.0712)Asn+(0.0041)Gly+(0.0124)Gln+(-0.1619)His+(-0.0189)Arg+(0.0876)Phe;0.814,0.839,0.721,0.684,0.731,0.802,0.738,0.739,(0.9496

)+(0.0515)Ser+(-0.0020)Gly+(-0.1611)His+(-0.0226)Arg+(0.0028)Pro+(0.0963)Phe;0.814,0.844,0.765,0.770,0.758,0.739,0.786,0.763,(2.4883)+(0.0014)Gln+(0.0076)Thr+(-0.0466)Tyr+(0.0409)Ile+(0.0683)Phe+(-0.1804)Trp;0.814,0.844,0.805,0.821,0.809,0.815,0.745,0.797,(4.8604)+(0.0043)Gln+(0.0199)Thr+(0.0082)Pro+(-0.2240)Met+(0.0028)Lys+(-0.1473)Trp;0.814,0.843,0.792,0.783,0.766,0.845,0.830,0.806,(3.6954)+(-0.0500)Asn+(0.0115)Gln+(-0.1262)His+(-0.0218)Arg+(0.1093)Ile+(-0.0451)Leu;0.814,0.842,0.794,0.788,0.803,0.819,0.770,0.795,(8.0186)+(0.0039)Gly+(-0.0857)His+(0.0084)Pro+(0.0069)Val+(-0.0599)Met+(-0.1023)Trp;0.814,0.844,0.828,0.846,0.837,0.844,0.750,0.819,(5.9032)+(-0.0635)Asn+(0.0070)Gln+(0.0275)Thr+(-0.0153)Arg+(-0.1455)Met+(-0.1412)Trp;0.814,0.844,0.804,0.804,0.822,0.802,0.767,0.799,(4.2406)+(0.0041)Gly+(-0.0967)Cit+(0.0023)Arg+(-0.0059)Lys+(0.0999)Phe+(-0.1687)Trp;0.814,0.841,0.786,0.769,0.757,0.850,0.850,0.806,(3.7653)+(0.0088)Gln+(-0.1415)His+(-0.0056)Ala+(-0.0141)Tyr+(-0.0051)Lys+(0.0607)Ile;0.814,0.837,0.784,0.787,0.765,0.808,0.795,0.789,(2.0300)+(0.0117)Gln+(-0.1634)His+(-0.0233)Arg+(-0.0416)Tyr+(0.0018)Lys+(0.1031)Phe;0.814,0.837,0.808,0.800,0.838,0.833,0.750,0.805,(7.2937)+(-0.1044)Cit+(0.0010)Val+(-0.0664)Met+(0.0558)Orn+(-0.0003)Lys+(-0.1446)Trp;0.814,0.847,0.800,0.788,0.811,0.782,0.819,0.800,(4.5226)+(-0.0833)Cit+(0.0059)Pro+(-0.0177)Val+(0.0293)Leu+(0.0850)Phe+(-0.1736)Trp;0.814,0.841,0.721,0.680,0.723,0.826,0.752,0.745,(3.0121)+(0.0441)Ser+(-0.1277)His+(-0.0408)Cit+(-0.0152)Tyr+(-0.0110)Lys+(0.0694)Ile;0.814,0.846,0.826,0.833,0.835,0.792,0.812,0.818,(4.1893)+(-0.0230)Asn+(-0.1853)Met+(0.0136)Orn+(-0.0002)Leu+(0.1022)Phe+(-0.1394)Trp;0.814,0.845,0.782,0.777,0.782,0.862,0.740,0.790,(3.0404)+(0.0302)Ser+(0.0071)Gln+(-0.1375)His+(0.0140)Thr+(0.0201)Tyr+(-0.2047)Met;0.814,0.845,0.789,0.766,0.806,0.820,0.795,0.797,(8.0283)+(-0.0040)Asn+(-0.1003)His+(-0.0035)Arg+

(0.0328)Orn+(0.0193)Leu+(-0.1114)Trp;0.814,0.841,0.790,0.786,0.817,0.821,0.721,0.786,(6.7289)+(0.0075)Thr+(-0.1124)Cit+(0.0059)Pro+(-0.0178)Tyr+(0.0500)Orn+(-0.1603)Trp;0.814,0.850,0.825,0.829,0.813,0.810,0.849,0.825,(4.7590)+(-0.0621)Asn+(-0.0073)Ala+(0.0088)Pro+(0.0020)Lys+(0.0825)Phe+(-0.1503)Trp;0.814,0.843,0.809,0.811,0.828,0.829,0.749,0.805,(8.2330)+(-0.0700)Asn+(0.0206)Thr+(-0.0704)Cit+(0.0072)Pro+(-0.0076)Tyr+(-0.1473)Trp;0.814,0.841,0.749,0.767,0.666,0.825,0.819,0.769,(-1.4833)+(0.0230)Ser+(-0.0109)Ala+(-0.0642)Tyr+(0.1783)Ile+(-0.0984)Leu+(0.0882)Phe;0.814,0.847,0.781,0.783,0.779,0.814,0.755,0.783,(4.0364)+(0.0413)Ser+(-0.1100)Asn+(0.0064)Pro+(-0.0064)Tyr+(0.0111)Leu+(-0.1411)Trp;0.813,0.840,0.777,0.749,0.754,0.847,0.847,0.799,(3.4154)+(0.0077)Gln+(-0.1503)His+(-0.0071)Ala+(0.0019)Pro+(0.0103)Orn+(0.0513)Ile;0.813,0.840,0.808,0.799,0.840,0.843,0.739,0.805,(6.8535)+(0.0027)Gly+(-0.1058)Cit+(0.0134)Tyr+(-0.0911)Met+(0.0541)Orn+(-0.1461)Trp;0.813,0.836,0.776,0.760,0.773,0.847,0.771,0.788,(2.6296)+(0.0392)Ser+(-0.0054)Gly+(0.0088)Gln+(-0.1573)His+(-0.0229)Arg+(0.0050)Val;0.813,0.851,0.805,0.813,0.824,0.777,0.765,0.795,(4.1338)+(-0.0013)Gly+(0.0186)Thr+(-0.0274)Arg+(-0.0086)Val+(0.0918)Phe+(-0.1705)Trp;0.813,0.850,0.771,0.764,0.724,0.870,0.816,0.794,(-0.1031)+(0.0391)Ser+(0.0004)Gln+(-0.0079)Ala+(-0.2628)Met+(0.1852)Ile+(-0.0751)Leu;0.813,0.850,0.815,0.814,0.796,0.805,0.866,0.820,(3.9440)+(-0.0056)Ala+(-0.0255)Val+(-0.0037)Lys+(0.0481)Leu+(0.0879)Phe+(-0.1621)Trp;0.813,0.848,0.772,0.763,0.774,0.851,0.733,0.780,(2.6713)+(0.0318)Ser+(0.0071)Gln+(-0.1463)His+(0.0141)Thr+(0.0090)Val+(-0.1947)Met;0.813,0.846,0.792,0.768,0.783,0.848,0.836,0.809,(3.0940)+(0.0107)Gln+(-0.1418)His+(0.0016)Tyr+(-0.1954)Met+(0.0076)Orn+(0.0622)Ile;0.813,0.845,0.808,0.827,0.819,0.824,0.727,0.799,(5.3142)+(0.0052)Gln+(0.0254)Thr+(-0.0182)Arg+(0.0082)Pro+(-0.2104)Met+(-0.1445)Trp;0.813,0.843,0.787,0.784,0.783,0.863,0.746,0.7

94,(3.6813)+(0.0324)Ser+(-0.0816)Asn+(0.0094)Gln+(-0.1368)His+(0.0102)Thr+(-0.0212)Arg;0.813,0.838,0.747,0.719,0.717,0.811,0.840,0.772,(3.7976)+(-0.1014)His+(-0.0442)Cit+(-0.0298)Val+(0.1387)Ile+(-0.0266)Leu+(0.0744)Phe;0.813,0.848,0.755,0.720,0.766,0.822,0.778,0.771,(5.6831)+(-0.1314)His+(0.0310)Thr+(-0.0000)Pro+(-0.2453)Met+(0.0121)Orn+(0.0661)Ile;0.813,0.848,0.770,0.756,0.771,0.854,0.746,0.782,(2.4443)+(0.0344)Ser+(0.0068)Gln+(-0.1443)His+(0.0069)Val+(-0.1548)Met+(0.0187)Orn;0.813,0.847,0.791,0.786,0.782,0.864,0.773,0.801,(3.4135)+(0.0352)Ser+(-0.0059)Gly+(0.0074)Gln+(-0.1323)His+(0.0154)Thr+(-0.1701)Met;0.813,0.846,0.793,0.771,0.782,0.845,0.837,0.809,(3.0536)+(0.0111)Gln+(-0.1400)His+(0.0017)Pro+(-0.1985)Met+(-0.0000)Lys+(0.0629)Ile;0.813,0.845,0.795,0.794,0.805,0.833,0.747,0.795,(8.6051)+(0.0008)Gly+(-0.0931)His+(0.0239)Thr+(-0.0131)Arg+(0.0077)Tyr+(-0.1086)Trp;0.813,0.842,0.801,0.786,0.825,0.840,0.765,0.804,(8.4125)+(-0.0673)His+(-0.0809)Cit+(0.0036)Arg+(-0.0248)Met+(0.0588)Orn+(-0.1086)Trp;0.813,0.842,0.767,0.769,0.761,0.741,0.794,0.766,(3.3684)+(-0.0026)Gly+(0.0119)Thr+(-0.0500)Tyr+(0.0408)Ile+(0.0690)Phe+(-0.1780)Trp;0.813,0.842,0.721,0.681,0.716,0.813,0.774,0.746,(2.9115)+(0.0443)Ser+(-0.0052)Gly+(-0.1439)His+(-0.0327)Tyr+(0.0163)Orn+(0.0562)Ile;0.813,0.847,0.749,0.725,0.762,0.847,0.718,0.763,(3.9778)+(0.0441)Ser+(-0.0330)Asn+(-0.1160)His+(0.0106)Pro+(-0.1447)Met+(0.0262)Orn;0.813,0.843,0.802,0.815,0.802,0.827,0.751,0.799,(6.4548)+(0.0222)Thr+(-0.0044)Ala+(0.0117)Pro+(-0.1899)Met+(0.0047)Lys+(-0.1396)Trp;0.813,0.839,0.719,0.689,0.726,0.803,0.723,0.735,(0.9478)+(0.0484)Ser+(-0.1567)His+(-0.0236)Arg+(0.0038)Pro+(-0.0046)Val+(0.1049)Phe;0.813,0.847,0.812,0.817,0.826,0.800,0.781,0.806,(2.7736)+(0.0024)Gly+(0.0047)Gln+(-0.0941)Cit+(-0.0083)Arg+(0.0906)Phe+(-0.1797)Trp;0.813,0.842,0.775,0.784,0.696,0.829,0.875,0.796,(2.6168)+(-0.0089)Ala+(-0.0258)Arg+(-0.0413)Tyr+(-0.0567)Val+(0.1783)Ile+(0.0769

)Phe;0.813,0.842,0.811,0.797,0.834,0.842,0.778,0.813,(7.2784)+(-0.005
0)Ala+(-0.1108)Cit+(-0.0485)Met+(0.0565)Orn+(0.0161)Leu+(-0.1504)Trp;
0.813,0.849,0.834,0.847,0.819,0.809,0.848,0.830,(2.6981)+(0.0036)Gln+
(-0.0058)Ala+(-0.0034)Val+(-0.0038)Lys+(0.0886)Phe+(-0.1610)Trp;0.813
,0.841,0.719,0.683,0.719,0.821,0.742,0.741,(2.9094)+(0.0453)Ser+(-0.1
360)His+(-0.0142)Arg+(-0.0162)Tyr+(-0.0067)Lys+(0.0666)Ile;0.813,0.84
1,0.711,0.663,0.722,0.822,0.733,0.735,(2.4679)+(0.0428)Ser+(-0.1495)H
is+(0.0007)Thr+(-0.0205)Arg+(0.0126)Orn+(0.0539)Ile;0.813,0.838,0.794
,0.792,0.823,0.826,0.718,0.790,(6.7614)+(0.0004)Gly+(0.0083)Thr+(-0.1
117)Cit+(-0.0122)Tyr+(0.0520)Orn+(-0.1585)Trp;0.813,0.837,0.766,0.751
,0.755,0.851,0.771,0.782,(2.7575)+(0.0320)Ser+(0.0066)Gln+(-0.1543)Hi
s+(-0.0033)Ala+(0.0091)Val+(-0.0062)Lys;0.813,0.849,0.809,0.815,0.787
,0.793,0.850,0.811,(3.8511)+(-0.0049)Ala+(-0.0194)Tyr+(-0.0243)Val+(0
.0443)Leu+(0.0949)Phe+(-0.1592)Trp;0.813,0.845,0.807,0.824,0.810,0.82
6,0.745,0.801,(5.1121)+(0.0044)Gln+(0.0210)Thr+(0.0087)Pro+(-0.0022)V
al+(-0.2167)Met+(-0.1426)Trp;0.813,0.844,0.836,0.844,0.840,0.803,0.83
0,0.829,(4.4132)+(-0.0171)Asn+(-0.0023)Ala+(-0.0015)Arg+(-0.1639)Met+
(0.1120)Phe+(-0.1385)Trp;0.813,0.843,0.729,0.699,0.713,0.798,0.796,0.
751,(2.8608)+(0.0038)Gly+(-0.1347)His+(0.0112)Orn+(0.0985)Ile+(-0.052
9)Leu+(0.0706)Phe;0.813,0.843,0.798,0.794,0.809,0.836,0.761,0.800,(8.
5289)+(-0.0187)Asn+(0.0049)Gly+(-0.0663)His+(-0.0442)Cit+(0.0100)Pro+
(-0.1057)Trp;0.813,0.837,0.753,0.725,0.737,0.814,0.813,0.772,(1.6244)
+(0.0023)Gly+(0.0078)Gln+(-0.1754)His+(-0.0043)Pro+(0.0353)Ile+(0.054
7)Phe;0.813,0.840,0.720,0.701,0.706,0.772,0.761,0.735,(3.8020)+(0.002
0)Gly+(-0.1543)His+(0.0182)Thr+(-0.0604)Tyr+(0.0374)Ile+(0.0859)Phe;0
.813,0.849,0.814,0.823,0.805,0.802,0.814,0.811,(3.4253)+(0.0101)Thr+(
-0.0065)Ala+(-0.0060)Val+(0.0086)Orn+(0.0848)Phe+(-0.1620)Trp;0.813,0
.849,0.814,0.790,0.829,0.828,0.836,0.821,(6.2313)+(-0.0732)Cit+(0.009

2)Arg+(0.0182)Tyr+(-0.1514)Met+(0.0692)Ile+(-0.1581)Trp;0.813,0.845,0.715,0.674,0.725,0.825,0.727,0.738,(2.9403)+(0.0376)Ser+(-0.1356)His+(-0.0617)Cit+(-0.0315)Tyr+(0.0335)Orn+(0.0551)Ile;0.813,0.844,0.762,0.743,0.742,0.804,0.821,0.778,(4.3810)+(-0.0245)Asn+(-0.1099)His+(-0.0137)Arg+(0.1134)Ile+(-0.0625)Leu+(0.0791)Phe;0.813,0.839,0.798,0.784,0.830,0.824,0.752,0.798,(7.1594)+(-0.1169)Cit+(-0.0049)Tyr+(0.0572)Orn+(-0.0078)Lys+(0.0140)Leu+(-0.1598)Trp;0.813,0.838,0.742,0.738,0.740,0.774,0.738,0.747,(4.8369)+(-0.0739)Asn+(0.0035)Gly+(-0.1410)His+(0.0273)Thr+(-0.0547)Tyr+(0.1144)Phe;0.813,0.845,0.812,0.818,0.812,0.841,0.772,0.811,(4.7847)+(0.0471)Ser+(-0.0077)Gly+(0.0007)Ala+(-0.0083)Arg+(-0.1217)Met+(-0.1313)Trp;0.813,0.845,0.760,0.773,0.748,0.796,0.727,0.761,(-1.8440)+(0.0569)Ser+(-0.1165)Asn+(0.0144)Pro+(-0.0200)Val+(-0.3090)Met+(0.1427)Phe;0.813,0.845,0.792,0.781,0.751,0.859,0.860,0.813,(5.7415)+(-0.0257)Asn+(-0.0405)Cit+(-0.0475)Val+(-0.2170)Met+(0.1985)Ile+(-0.0177)Leu;0.813,0.839,0.784,0.767,0.760,0.850,0.833,0.802,(3.3463)+(0.0019)Gly+(0.0101)Gln+(-0.1494)His+(-0.0060)Ala+(-0.0188)Arg+(0.0580)Ile;0.813,0.839,0.771,0.754,0.734,0.846,0.841,0.794,(5.2894)+(0.0030)Gly+(-0.1042)His+(-0.0072)Ala+(0.0013)Lys+(0.1259)Ile+(-0.0472)Leu;0.813,0.838,0.770,0.768,0.721,0.842,0.829,0.790,(6.3968)+(-0.1395)Asn+(0.0230)Thr+(-0.0554)Cit+(-0.0352)Tyr+(-0.0535)Val+(0.1708)Ile;0.813,0.848,0.746,0.722,0.757,0.848,0.715,0.760,(3.6734)+(0.0426)Ser+(-0.1214)His+(0.0109)Pro+(0.0033)Tyr+(-0.1750)Met+(0.0251)Orn;0.813,0.847,0.798,0.804,0.796,0.823,0.768,0.798,(3.5185)+(0.0358)Ser+(-0.1289)Asn+(0.0033)Gln+(0.0054)Thr+(0.0131)Leu+(-0.1481)Trp;0.813,0.845,0.827,0.833,0.838,0.796,0.807,0.819,(4.3112)+(-0.0205)Asn+(-0.0052)Arg+(-0.1796)Met+(0.0151)Orn+(0.1019)Phe+(-0.1392)Trp;0.813,0.841,0.797,0.787,0.783,0.863,0.806,0.810,(3.3764)+(0.0413)Ser+(-0.0867)Asn+(-0.0056)Gly+(0.0089)Gln+(-0.1329)His+(-0.0004)Lys;0.813,0.838,0.749,0.7

18,0.739,0.846,0.780,0.771,(2.3559)+(0.0317)Ser+(0.0049)Gln+(-0.1609)His+(-0.0049)Ala+(0.0141)Orn+(0.0208)Leu;0.813,0.846,0.798,0.784,0.811,0.825,0.789,0.802,(8.1249)+(-0.0107)Asn+(-0.0928)His+(0.0037)Tyr+(0.0041)Val+(0.0338)Orn+(-0.1049)Trp;0.813,0.843,0.787,0.776,0.802,0.823,0.759,0.790,(7.8607)+(0.0028)Gly+(-0.0973)His+(-0.0062)Arg+(0.0052)Val+(0.0344)Orn+(-0.1033)Trp;0.813,0.839,0.786,0.772,0.757,0.838,0.845,0.803,(2.4904)+(0.0084)Gln+(-0.1597)His+(-0.0044)Ala+(-0.0139)Val+(0.0253)Leu+(0.0737)Phe;0.813,0.840,0.773,0.747,0.750,0.846,0.839,0.796,(3.3472)+(0.0012)Gly+(0.0074)Gln+(-0.1512)His+(-0.0067)Ala+(0.0106)Orn+(0.0537)Ile;0.813,0.840,0.812,0.805,0.834,0.842,0.761,0.811,(7.3860)+(-0.0049)Ala+(-0.1125)Cit+(-0.0015)Arg+(0.0041)Tyr+(0.0604)Orn+(-0.1462)Trp;0.813,0.844,0.737,0.703,0.722,0.795,0.814,0.758,(3.3582)+(-0.1343)His+(0.0048)Thr+(0.01

19)Orn+(0.0963)Ile+(-0.0525)Leu+(0.0666)Phe;0.813,0.843,0.818,0.814,0.811,0.826,0.837,0.822,(3.9920)+(-0.0375)Asn+(0.0006)Gly+(0.0066)Gln+(-0.1763)Met+(0.0629)Ile+(-0.1470)Trp;0.813,0.839,0.772,0.757,0.726,0.840,0.860,0.796,(6.1037)+(-0.0762)His+(-0.0064)Ala+(-0.0120)Arg+(-0.0334)Val+(0.1610)Ile+(-0.0152)Leu;0.813,0.838,0.734,0.698,0.726,0.844,0.767,0.759,(3.4027)+(0.0429)Ser+(-0.1395)His+(-0.0063)Ala+(0.0087)Pro+(-0.0077)Lys+(0.0246)Leu;0.813,0.849,0.795,0.779,0.757,0.860,0.867,0.816,(4.6612)+(-0.0390)Cit+(0.0135)Tyr+(-0.0563)Val+(-0.3050)Met+(0.0075)Lys+(0.1915)Ile;0.813,0.847,0.800,0.778,0.794,0.851,0.836,0.815,(2.9247)+(0.0124)Gln+(-0.1328)His+(-0.0474)Cit+(0.0033)Tyr+(-0.1986)Met+(0.0682)Ile;0.813,0.844,0.788,0.766,0.805,0.817,0.791,0.795,(7.8732)+(-0.1030)His+(-0.0065)Arg+(0.0314)Orn+(0.0050)Lys+(0.0171)Leu+(-0.1142)Trp;0.813,0.843,0.812,0.817,0.840,0.834,0.723,0.804,(7.6033)+(0.0281)Thr+(-0.0661)Cit+(-0.0025)Arg+(0.0045)Val+(-0.1532)Met+(-0.1474)Trp;0.813,0.842,0.821,0.819,0.797,0.840,0.866,0.830,(4.4750)+(-0.067

8)Asn+(0.0054)Gln+(-0.0074)Ala+(0.0051)Orn+(0.0610)Ile+(-0.1528)Trp;0
.813,0.839,0.755,0.728,0.773,0.853,0.719,0.768,(3.3852)+(0.0300)Ser+(
0.0057)Gln+(-0.1367)His+(-0.0706)Cit+(0.0448)Orn+(-0.0100)Lys;0.813,0
.836,0.773,0.752,0.729,0.851,0.866,0.799,(6.1379)+(-0.0727)His+(-0.00
73)Ala+(-0.0406)Cit+(-0.0037)Arg+(-0.0367)Val+(0.1527)Ile;0.813,0.845
,0.785,0.785,0.789,0.822,0.750,0.786,(4.2416)+(0.0387)Ser+(-0.1107)As
n+(0.0074)Thr+(-0.0031)Lys+(0.0155)Leu+(-0.1455)Trp;0.813,0.844,0.792
,0.789,0.804,0.824,0.751,0.792,(8.4317)+(-0.0969)His+(0.0229)Thr+(-0.
0165)Arg+(0.0033)Tyr+(0.0081)Lys+(-0.1121)Trp;0.813,0.842,0.812,0.811
,0.834,0.830,0.755,0.807,(8.1541)+(-0.0714)Asn+(0.0199)Thr+(-0.0714)C
it+(0.0067)Pro+(-0.0000)Val+(-0.1500)Trp;0.813,0.839,0.721,0.682,0.71
4,0.811,0.777,0.746,(2.8487)+(0.0460)Ser+(-0.0049)Gly+(-0.1413)His+(0
.0009)Pro+(-0.0285)Tyr+(0.0590)Ile;0.813,0.838,0.751,0.720,0.749,0.83
5,0.779,0.771,(2.6236)+(0.0360)Ser+(-0.0058)Gly+(0.0054)Gln+(-0.1566)
His+(0.0041)Pro+(0.0153)Orn;0.813,0.834,0.759,0.735,0.751,0.835,0.786
,0.777,(2.5590)+(0.0386)Ser+(-0.0058)Gly+(0.0064)Gln+(-0.1525)His+(-0
.0036)Thr+(0.0057)Pro;0.813,0.845,0.801,0.798,0.816,0.841,0.751,0.801
,(8.8542)+(-0.0831)His+(0.0245)Thr+(-0.0359)Cit+(-0.0076)Arg+(0.0079)
Tyr+(-0.1141)Trp;0.813,0.836,0.756,0.727,0.753,0.836,0.782,0.774,(2.6
495)+(0.0355)Ser+(-0.0056)Gly+(0.0057)Gln+(-0.1587)His+(0.0024)Val+(0
.0156)Orn;0.813,0.835,0.762,0.736,0.757,0.840,0.786,0.780,(2.7638)+(0
.0362)Ser+(-0.0057)Gly+(0.0059)Gln+(-0.1526)His+(-0.0040)Thr+(0.0199)
Orn;0.813,0.843,0.784,0.775,0.740,0.858,0.847,0.805,(5.0559)+(-0.0401
)Asn+(0.0031)Gly+(-0.0512)Val+(-0.2358)Met+(0.1994)Ile+(-0.0129)Leu;0
.813,0.843,0.782,0.775,0.738,0.851,0.844,0.802,(4.0436)+(0.0018)Gly+(
-0.0517)Val+(-0.3039)Met+(0.0081)Lys+(0.2076)Ile+(-0.0191)Leu;0.813,0
.849,0.839,0.848,0.843,0.808,0.832,0.833,(4.0773)+(-0.0018)Ala+(0.008
4)Tyr+(-0.0048)Val+(-0.1942)Met+(0.1186)Phe+(-0.1367)Trp;0.813,0.846,

0.809,0.821,0.808,0.839,0.755,0.806,(3.1672)+(0.0330)Ser+(0.0029)Gln+(-0.0012)Ala+(0.0051)Val+(-0.1514)Met+(-0.1419)Trp;0.813,0.845,0.787,0.773,0.747,0.863,0.853,0.809,(4.7317)+(-0.0422)Asn+(0.0039)Gly+(0.0203)Tyr+(-0.0572)Val+(-0.2752)Met+(0.1944)Ile;0.813,0.845,0.783,0.773,0.806,0.819,0.736,0.784,(4.1129)+(0.0336)Ser+(-0.0771)Cit+(-0.0055)Arg+(-0.0000)Tyr+(0.0187)Leu+(-0.1694)Trp;0.813,0.843,0.799,0.808,0.801,0.836,0.743,0.797,(3.8386)+(0.0356)Ser+(-0.0010)Ala+(0.0049)Val+(-0.1446)Met+(0.0027)Lys+(-0.1408)Trp;0.813,0.842,0.794,0.778,0.816,0.823,0.766,0.796,(6.7213)+(-0.1059)Cit+(-0.0045)Arg+(-0.0225)Val+(0.0572)Orn+(0.0452)Leu+(-0.1618)Trp;0.813,0.840,0.792,0.774,0.767,0.855,0.846,0.810,(3.5489)+(0.0106)Gln+(-0.1473)His+(-0.0059)Ala+(-0.0170)Arg+(-0.0025)Lys+(0.0584)Ile;0.813,0.839,0.748,0.723,0.752,0.837,0.742,0.764,(2.7764)+(0.0307)Ser+(0.0057)Gln+(-0.1568)His+(0.0051)Val+(0.0184)Orn+(-0.0086)Lys;0.813,0.836,0.783,0.771,0.764,0.856,0.799,0.798,(3.3202)+(0.0369)Ser+(-0.0062)Gly+(0.0070)Gln+(-0.1421)His+(-0.0018)Ala+(-0.0041)Lys;0.813,0.836,0.778,0.757,0.764,0.838,0.821,0.795,(3.3767)+(-0.0679)Asn+(0.0024)Gly+(0.0103)Gln+(-0.1505)His+(-0.0022)Pro+(0.0481)Ile;0.813,0.849,0.814,0.820,0.809,0.800,0.819,0.812,(4.1802)+(-0.0081)Ala+(-0.0189)Arg+(0.0088)Pro+(0.0133)Orn+(0.0801)Phe+(-0.1571)Trp;0.813,0.845,0.788,0.777,0.799,0.825,0.769,0.793,(7.4079)+(0.0022)Gly+(-0.0993)His+(0.0033)Tyr+(0.0316)Orn+(0.0070)Lys+(-0.1053)Trp;0.813,0.844,0.816,0.817,0.810,0.839,0.806,0.818,(5.1397)+(0.0478)Ser+(-0.0878)Asn+(-0.0070)Gly+(-0.0016)Ala+(0.0024)Val+(-0.1349)Trp;0.813,0.842,0.759,0.744,0.706,0.876,0.825,0.788,(0.6322)+(0.0297)Ser+(-0.0153)Ala+(-0.1019)Cit+(0.0066)Pro+(0.1831)Ile+(-0.0829)Leu;0.813,0.841,0.803,0.804,0.827,0.831,0.732,0.798,(5.7882)+(0.0032)Gln+(0.0058)Thr+(-0.1126)Cit+(-0.0139)Tyr+(0.0493)Orn+(-0.1622)Trp;0.813,0.836,0.751,0.752,0.676,0.851,0.832,0.778,(1.5591)+(0.0288)Ser+(-0.0094)Ala+(-0.0298)Ar

g+(-0.0136)Tyr+(-0.0524)Val+(0.1827)Ile;0.813,0.838,0.802,0.793,0.835,0.828,0.741,0.799,(7.1839)+(-0.1140)Cit+(0.0001)Arg+(0.0013)Val+(0.0577)Orn+(-0.0051)Lys+(-0.1536)Trp;0.813,0.850,0.736,0.703,0.756,0.831,0.711,0.750,(3.5961)+(0.0420)Ser+(-0.1400)His+(0.0226)Thr+(-0.2304)Met+(-0.0035)Lys+(0.0348)Leu;0.813,0.845,0.760,0.742,0.737,0.808,0.822,0.777,(4.1943)+(-0.1156)His+(-0.0155)Arg+(-0.0047)Pro+(0.1221)Ile+(-0.0643)Leu+(0.0794)Phe;0.813,0.844,0.742,0.705,0.763,0.831,0.729,0.757,(3.2688)+(0.0502)Ser+(-0.1229)His+(-0.0325)Cit+(0.0101)Pro+(-0.1999)Met+(0.0263)Leu;0.813,0.853,0.827,0.837,0.833,0.798,0.811,0.820,(3.8193)+(0.0027)Tyr+(-0.0077)Val+(-0.2059)Met+(0.0178)Orn+(0.1138)Phe+(-0.1325)Trp;0.813,0.850,0.822,0.842,0.815,0.785,0.809,0.813,(4.6020)+(-0.0669)Asn+(0.0019)Gly+(-0.0225)Tyr+(-0.0070)Val+(0.1053)Phe+(-0.1371)Trp;0.813,0.849,0.757,0.744,0.757,0.806,0.756,0.766,(2.1374)+(0.0371)Ser+(0.0006)Gln+(-0.0208)Arg+(-0.0100)Lys+(0.0646)Ile+(-0.1625)Trp;0.813,0.847,0.842,0.852,0.837,0.815,0.842,0.837,(5.0769)+(-0.0536)Asn+(-0.0037)Ala+(-0.0071)Arg+(-0.0051)Val+(0.0983)Phe+(-0.1413)Trp;0.813,0.847,0.795,0.773,0.783,0.847,0.838,0.810,(3.1068)+(-0.0033)Asn+(0.0111)Gln+(-0.1401)His+(-0.1909)Met+(-0.0000)Lys+(0.0644)Ile;0.813,0.846,0.755,0.742,0.758,0.799,0.749,0.762,(1.9935)+(0.0350)Ser+(0.0003)Gln+(-0.0009)Thr+(-0.0259)Arg+(0.0585)Ile+(-0.1704)Trp;0.813,0.845,0.753,0.741,0.757,0.797,0.746,0.760,(2.0427)+(0.0353)Ser+(-0.0012)Thr+(-0.0259)Arg+(0.0027)Orn+(0.0578)Ile+(-0.1699)Trp;0.813,0.847,0.803,0.821,0.779,0.780,0.823,0.801,(3.8113)+(-0.0066)Ala+(0.0106)Pro+(-0.0278)Tyr+(-0.0056)Val+(0.0993)Phe+(-0.1476)Trp;0.813,0.846,0.803,0.794,0.784,0.839,0.840,0.814,(6.1355)+(-0.0575)Asn+(0.0180)Thr+(-0.0078)Ala+(-0.0053)Lys+(0.0661)Ile+(-0.1528)Trp;0.813,0.844,0.785,0.787,0.800,0.776,0.752,0.779,(4.0633)+(0.0035)Gly+(-0.0937)Cit+(0.0072)Pro+(-0.0299)Tyr+(0.1028)Phe+(-0.1670)Trp;0.813,0.843,0.801,0.798,0.761,0.838,0

.863,0.815,(0.8374)+(-0.0078)Ala+(-0.2747)Met+(-0.0005)Lys+(0.1835)Ile+(-0.0939)Leu+(0.1049)Phe;0.813,0.842,0.823,0.820,0.797,0.841,0.870,0.832,(4.4137)+(-0.0675)Asn+(0.0006)Gly+(0.0055)Gln+(-0.0073)Ala+(0.0632)Ile+(-0.1530)Trp;0.813,0.851,0.794,0.784,0.795,0.770,0.839,0.797,(2.5332)+(0.0029)Gln+(-0.0044)Orn+(-0.0129)Lys+(0.0484)Ile+(0.0561)Phe+(-0.1817)Trp;0.813,0.848,0.811,0.816,0.822,0.773,0.806,0.804,(3.4935)+(0.0072)Pro+(-0.2380)Met+(0.0058)Orn+(0.0041)Lys+(0.1031)Phe+(-0.1468)Trp;0.813,0.842,0.802,0.786,0.803,0.825,0.825,0.810,(8.4545)+(-0.0830)His+(-0.0037)Ala+(0.0099)Pro+(-0.0496)Met+(0.0235)Leu+(-0.1075)Trp;0.813,0.839,0.798,0.792,0.832,0.829,0.720,0.793,(6.9091)+(0.0096)Thr+(-0.1072)Cit+(-0.0090)Arg+(-0.0005)Val+(0.0514)Orn+(-0.1621)Trp;0.813,0.849,0.816,0.828,0.798,0.796,0.833,0.814,(4.7949)+(-0.0535)Asn+(-0.0065)Ala+(0.0096)Pro+(-0.0236)Tyr+(0.0936)Phe+(-0.1425)Trp;0.813,0.845,0.786,0.777,0.782,0.857,0.766,0.796,(2.6106)+(0.0372)Ser+(-0.0495)Asn+(0.0087)Gln+(-0.1380)His+(0.0078)Val+(-0.1146)Met;0.813,0.838,0.749,0.715,0.740,0.850,0.782,0.772,(3.8498)+(0.0416)Ser+(-0.0048)Gly+(-0.1326)His+(-0.0062)Ala+(0.0103)Pro+(0.0231)Orn;0.813,0.836,0.763,0.735,0.750,0.830,0.816,0.783,(3.5844)+(0.0082)Gln+(-0.1589)His+(0.0089)Thr+(-0.0037)Pro+(-0.0102)Lys+(0.0530)Ile;0.813,0.850,0.716,0.691,0.747,0.784,0.667,0.722,(-4.3640)+(0.0510)Ser+(0.0179)Thr+(-0.0946)Cit+(-0.4993)Met+(0.0583)Ile+(0.1069)Phe;0.813,0.847,0.794,0.803,0.798,0.834,0.729,0.791,(3.6552)+(0.0345)Ser+(0.0020)Val+(-0.1584)Met+(0.0198)Orn+(0.0011)Lys+(-0.1395)Trp;0.813,0.836,0.775,0.759,0.764,0.848,0.788,0.790,(3.2748)+(0.0368)Ser+(-0.0064)Gly+(0.0069)Gln+(-0.1466)His+(0.0021)Thr+(-0.0057)Lys;0.813,0.849,0.793,0.775,0.757,0.861,0.870,0.816,(4.8284)+(-0.0447)Cit+(0.0062)Arg+(0.0149)Tyr+(-0.0539)Val+(-0.2893)Met+(0.1899)Ile;0.813,0.841,0.814,0.822,0.840,0.835,0.719,0.804,(7.6304)+(0.0281)Thr+(-0.0587)Cit+(-0.0061)Arg+(-0.1589)Met+(0.0050)Lys

+(-0.1434)Trp;0.813,0.844,0.750,0.722,0.724,0.837,0.820,0.776,(3.6498)+(0.0047)Gly+(-0.1431)His+(-0.0073)Ala+(0.0138)Orn+(0.0435)Ile+(0.0567)Phe;0.813,0.842,0.774,0.761,0.770,0.853,0.761,0.786,(3.2899)+(0.0330)Ser+(-0.0951)Asn+(0.0073)Gln+(-0.1370)His+(0.0020)Thr+(0.0209)Orn;0.813,0.847,0.815,0.793,0.831,0.824,0.830,0.820,(6.5737)+(-0.0036)Asn+(-0.0673)Cit+(0.0196)Tyr+(-0.1366)Met+(0.0681)Ile+(-0.1566)Trp;0.813,0.846,0.812,0.804,0.820,0.797,0.827,0.812,(4.9351)+(-0.0810)Cit+(-0.0167)Val+(-0.0060)Lys+(0.0339)Leu+(0.0918)Phe+(-0.1685)Trp;0.813,0.839,0.765,0.738,0.774,0.834,0.767,0.778,(6.7337)+(-0.1197)His+(0.0409)Thr+(-0.0005)Ala+(-0.0330)Val+(-0.2536)Met+(0.0777)Leu;0.813,0.838,0.766,0.747,0.759,0.808,0.801,0.779,(2.5015)+(0.0083)Gln+(-0.1733)His+(0.0116)Thr+(-0.0010)Pro+(-0.0106)Lys+(0.0797)Phe;0.813,0.848,0.798,0.789,0.798,0.783,0.830,0.800,(4.0644)+(-0.0620)Asn+(0.0021)Gly+(-0.0051)Lys+(0.0432)Ile+(0.0596)Phe+(-0.1664)Trp;0.813,0.847,0.799,0.818,0.786,0.784,0.786,0.794,(3.4606)+(0.0156)Thr+(-0.0050)Ala+(-0.0348)Tyr+(-0.0053)Val+(0.1043)Phe+(-0.1574)Trp;0.813,0.846,0.773,0.760,0.764,0.795,0.809,0.782,(3.2878)+(0.0387)Ser+(-0.0083)Gly+(0.0055)Pro+(-0.0236)Val+(0.0431)Leu+(-0.1590)Trp;0.813,0.844,0.782,0.772,0.738,0.853,0.848,0.803,(5.1250)+(-0.0443)Asn+(0.0032)Gly+(0.0034)Pro+(-0.0552)Val+(-0.2446)Met+(0.1865)Ile;0.813,0.841,0.797,0.789,0.782,0.862,0.805,0.810,(3.4543)+(0.0412)Ser+(-0.0855)Asn+(-0.0058)Gly+(0.0090)Gln+(-0.1310)His+(-0.0048)Tyr;0.813,0.8
45,0.798,0.810,0.805,0.842,0.719,0.794,(5.3783)+(0.0357)Ser+(-0.0981)Asn+(0.0117)Thr+(-0.0135)Arg+(0.0002)Val+(-0.1363)Trp;0.813,0.845,0.753,0.740,0.757,0.798,0.748,0.761,(2.0662)+(0.0354)Ser+(-0.0008)Thr+(-0.0255)Arg+(-0.0001)Pro+(0.0588)Ile+(-0.1700)Trp;0.813,0.844,0.798,0.777,0.807,0.820,0.819,0.805,(6.3693)+(-0.0859)Cit+(0.0071)Arg+(0.0010)Pro+(-0.0084)Lys+(0.0671)Ile+(-0.1665)Trp;0.813,0.836,0.744,0.738,0.

674,0.847,0.833,0.773,(1.6923)+(0.0322)Ser+(-0.0021)Gln+(-0.0099)Ala+(-0.0287)Arg+(-0.0542)Val+(0.1868)Ile;0.813,0.843,0.800,0.796,0.812,0.836,0.760,0.801,(8.4041)+(0.0048)Gly+(-0.0654)His+(-0.0418)Cit+(0.0111)Pro+(-0.0461)Met+(-0.1028)Trp;0.813,0.841,0.773,0.758,0.770,0.851,0.764,0.786,(3.0857)+(0.0341)Ser+(-0.0921)Asn+(0.0074)Gln+(-0.1398)His+(0.0018)Val+(0.0198)Orn;0.813,0.838,0.753,0.723,0.739,0.812,0.820,0.774,(1.8930)+(0.0077)Gln+(-0.1779)His+(0.0061)Thr+(-0.0050)Pro+(0.0345)Ile+(0.0526)Phe;0.813,0.839,0.778,0.781,0.761,0.809,0.784,0.784,(1.9148)+(0.0018)Gly+(0.0113)Gln+(-0.1637)His+(-0.0229)Arg+(-0.0389)Tyr+(0.1049)Phe;0.813,0.849,0.770,0.763,0.724,0.869,0.812,0.792,(0.0010)+(0.0391)Ser+(0.0016)Thr+(-0.0079)Ala+(-0.2663)Met+(0.1846)Ile+(-0.0746)Leu;0.813,0.841,0.777,0.776,0.764,0.811,0.783,0.783,(2.1513)+(0.0108)Gln+(-0.1616)His+(-0.0235)Arg+(-0.0436)Tyr+(0.0189)Orn+(0.0977)Phe;0.813,0.841,0.795,0.796,0.784,0.864,0.764,0.802,(3.4763)+(0.0349)Ser+(-0.0727)Asn+(0.0097)Gln+(-0.1317)His+(-0.0006)Ala+(-0.0178)Arg;0.813,0.839,0.752,0.728,0.747,0.826,0.776,0.769,(5.8958)+(-0.0939)His+(-0.0702)Cit+(-0.0367)Tyr+(0.0470)Orn+(0.1186)Ile+(-0.0518)Leu;0.813,0.838,0.756,0.754,0.737,0.789,0.776,0.764,(2.3765)+(0.0070)Gln+(-0.1634)His+(0.0145)Thr+(-0.0509)Tyr+(-0.0027)Val+(0.1050)Phe;0.813,0.838,0.806,0.793,0.835,0.829,0.765,0.806,(6.9263)+(-0.1070)Cit+(0.0041)Arg+(-0.0865)Met+(0.0514)Orn+(0.0130)Leu+(-0.1542)Trp;0.813,0.835,0.789,0.785,0.720,0.873,0.886,0.816,(4.6178)+(-0.1560)Asn+(0.0033)Gln+(0.0152)Thr+(-0.0074)Ala+(-0.0563)Val+(0.1794)Ile;0.813,0.851,0.804,0.799,0.781,0.810,0.860,0.813,(3.9328)+(-0.0080)Ala+(-0.0189)Tyr+(-0.0073)Lys+(0.0604)Ile+(0.0708)Phe+(-0.1594)Trp;0.813,0.845,0.753,0.742,0.758,0.796,0.744,0.760,(2.0321)+(0.0345)Ser+(0.0002)Gln+(-0.0267)Arg+(0.0021)Orn+(0.0576)Ile+(-0.1709)Trp;0.813,0.845,0.747,0.711,0.757,0.846,0.748,0.766,(3.3095)+(0.0448)Ser+(-0.1347)His+(-0.0025)Ala+(-0.1569)Met+

(0.0233)Orn+(0.0285)Leu;0.813,0.837,0.729,0.689,0.723,0.841,0.765,0.754,(3.0891)+(0.0382)Ser+(-0.1464)His+(-0.0070)Ala+(0.0081)Pro+(0.0170)Orn+(0.0182)Leu;0.813,0.848,0.765,0.736,0.768,0.857,0.766,0.782,(-0.0688)+(0.0432)Ser+(-0.0100)Ala+(-0.1069)Cit+(-0.2634)Met+(0.0288)Orn+(0.0789)Ile;0.813,0.843,0.781,0.784,0.763,0.831,0.774,0.788,(3.1413)+(0.0300)Ser+(-0.0057)Thr+(-0.0074)Ala+(0.0109)Pro+(0.0148)Orn+(-0.1430)Trp;0.813,0.842,0.811,0.806,0.794,0.839,0.840,0.820,(2.4886)+(-0.0597)Asn+(0.0129)Gln+(-0.1551)His+(-0.0036)Ala+(-0.0170)Arg+(0.0876)Phe;0.813,0.841,0.712,0.666,0.723,0.822,0.735,0.737,(2.4829)+(0.0430)Ser+(-0.1493)His+(-0.0201)Arg+(-0.0012)Pro+(0.0134)Orn+(0.0555)Ile;0.813,0.851,0.782,0.765,0.792,0.769,0.819,0.786,(3.4904)+(-0.0009)Gly+(0.0094)Thr+(-0.0142)Lys+(0.0464)Ile+(0.0546)Phe+(-0.1808)Trp;0.813,0.851,0.777,0.789,0.779,0.755,0.754,0.769,(3.4691)+(0.0155)Thr+(0.0035)Pro+(-0.0461)Tyr+(-0.0088)Lys+(0.0962)Phe+(-0.1639)Trp;0.813,0.841,0.780,0.764,0.794,0.808,0.776,0.785,(5.4023)+(0.0040)Gly+(-0.0886)Cit+(-0.0011)Arg+(0.0013)Pro+(0.0634)Ile+(-0.1746)Trp;0.813,0.840,0.773,0.755,0.773,0.853,0.765,0.787,(2.9882)+(0.0371)Ser+(-0.0055)Gly+(0.0078)Gln+(-0.1511)His+(-0.0244)Arg+(0.0221)Orn;0.813,0.840,0.726,0.708,0.710,0.773,0.772,0.741,(4.1579)+(-0.1536)His+(0.0203)Thr+(-0.0015)Pro+(-0.0621)Tyr+(0.0385)Ile+(0.0858)Phe;0.813,0.841,0.786,0.774,0.745,0.859,0.846,0.806,(3.4462)+(0.0035)Gln+(-0.0132)Arg+(-0.0563)Val+(-0.2905)Met+(0.0248)Orn+(0.1867)Ile;0.813,0.845,0.749,0.732,0.759,0.848,0.701,0.760,(4.0985)+(0.0399)Ser+(-0.1189)His+(0.0144)Thr+(0.0113)Pro+(0.0071)Tyr+(-0.2117)Met;0.813,0.845,0.800,0.790,0.809,0.828,0.790,0.804,(8.3235)+(-0.0915)His+(-0.0021)Ala+(-0.0046)Arg+(0.0055)Val+(0.0365)Orn+(-0.1026)Trp;0.813,0.843,0.790,0.808,0.786,0.742,0.784,0.780,(2.9763)+(-0.0036)Gly+(0.0024)Gln+(0.0130)Thr+(-0.0491)Tyr+(0.0879)Phe+(-0.1708)Trp;0.813,0.843,0.780,0.765,0.786,0.857,0.749,0.789,(2.3251)+(0

.0362)Ser+(0.0086)Gln+(-0.1396)His+(-0.0405)Cit+(0.0107)Val+(-0.1507)Met;0.813,0.842,0.798,0.798,0.819,0.834,0.731,0.795,(3.9010)+(0.0295)Ser+(0.0027)Gln+(-0.0776)Cit+(-0.0078)Arg+(0.0057)Val+(-0.1648)Trp;0.813,0.848,0.792,0.789,0.773,0.825,0.813,0.800,(3.6009)+(0.0381)Ser+(-0.0077)Gly+(0.0006)Gln+(-0.0068)Ala+(0.0115)Pro+(-0.1470)Trp;0.813,0.846,0.754,0.732,0.784,0.856,0.680,0.763,(4.7151)+(0.0349)Ser+(-0.1143)His+(0.0133)Thr+(-0.0667)Cit+(-0.1601)Met+(0.0453)Orn;0.813,0.845,0.799,0.809,0.807,0.842,0.722,0.795,(5.3156)+(0.0360)Ser+(-0.0992)Asn+(0.0113)Thr+(-0.0137)Arg+(0.0035)Tyr+(-0.1371)Trp;0.813,0.838,0.785,0.775,0.763,0.834,0.821,0.798,(2.2441)+(0.0021)Gly+(0.0088)Gln+(-0.1626)His+(-0.0041)Ala+(-0.0051)Lys+(0.0843)Phe;0.813,0.849,0.816,0.827,0.795,0.794,0.845,0.815,(2.7746)+(-0.0007)Gly+(0.0028)Gln+(-0.0087)Ala+(0.0081)Pro+(0.0764)Phe+(-0.1672)Trp;0.813,0.849,0.770,0.762,0.725,0.869,0.815,0.793,(-0.0124)+(0.0395)Ser+(-0.0080)Ala+(-0.2614)Met+(0.0015)Orn+(0.1848)Ile+(-0.0751)Leu;0.813,0.850,0.814,0.822,0.806,0.799,0.819,0.812,(3.9560)+(0.0012)Gly+(-0.0080)Ala+(-0.0169)Arg+(0.0096)Pro+(0.0883)Phe+(-0.1590)Trp;0.813,0.848,0.792,0.813,0.781,0.751,0.788,0.783,(3.6463)+(-0.0005)Gly+(0.0066)Pro+(-0.0379)Tyr+(-0.0077)Val+(0.0989)Phe+(-0.1522)Trp;0.813,0.844,0.793,0.787,0.747,0.851,0.863,0.812,(5.3166)+(-0.0458)Asn+(-0.0055)Arg+(-0.0590)Val+(-0.2581)Met+(0.0120)Lys+(0.1923)Ile;0.813,0.843,0.820,0.816,0.812,0.825,0.841,0.824,(4.0439)+(-0.0369)Asn+(0.0067)Gln+(-0.1759)Met+(0.0002)Lys+(0.0625)Ile+(-0.1474)Trp;0.813,0.841,0.740,0.727,0.662,0.849,0.860,0.775,(1.1613)+(0.0291)Ser+(-0.0115)Ala+(0.0052)Pro+(-0.0487)Val+(-0.0186)Lys+(0.1744)Ile;0.813,0.841,0.747,0.727,0.745,0.784,0.778,0.758,(1.6030)+(0.0353)Ser+(-0.0011)Gln+(-0.0088)Thr+(-0.0016)Orn+(0.0563)Ile+(-0.1699)Trp;0.813,0.840,0.785,0.769,0.748,0.849,0.860,0.806,(5.9944)+(-0.0205)Asn+(-0.0957)His+(-0.0072)Ala+(0.0037)Lys+(0.1286)Ile+(-0.0514)Leu;0.813,

0.834,0.749,0.716,0.740,0.835,0.791,0.771,(4.4914)+(0.0518)Ser+(-0.0841)Asn+(-0.0039)Gly+(-0.1186)His+(-0.0261)Val+(0.0590)Leu;0.813,0.846,0.796,0.790,0.807,0.831,0.760,0.797,(8.1684)+(-0.0142)Asn+(0.0025)Gly+(-0.0870)His+(-0.0057)Arg+(0.0387)Orn+(-0.0957)Trp;0.813,0.843,0.795,0.809,0.805,0.810,0.730,0.788,(6.3488)+(0.0221)Thr+(0.0095)Pro+(-0.0033)Val+(-0.2101)Met+(0.0057)Lys+(-0.1413)Trp;0.813,0.850,0.812,0.821,0.816,0.776,0.804,0.804,(3.5855)+(-0.0005)Gly+(-0.0077)Val+(0.0139)Orn+(-0.0040)Lys+(0.0790)Phe+(-0.1581)Trp;0.813,0.841,0.806,0.800,0.829,0.819,0.762,0.803,(7.7260)+(-0.0712)Asn+(0.0198)Thr+(-0.0760)Cit+(0.0050)Pro+(0.0123)Leu+(-0.1616)Trp;0.813,0.841,0.797,0.797,0.800,0.822,0.770,0.797,(8.2707)+(-0.0047)Asn+(0.0034)Gly+(-0.0759)His+(0.0101)Pro+(-0.0517)Met+(-0.0956)Trp;0.813,0.844,0.765,0.739,0.758,0.836,0.797,0.782,(5.3990)+(0.0042)Gly+(-0.1006)His+(-0.1673)Met+(0.0219)Orn+(0.1278)Ile+(-0.0477)Leu;0.813,0.848,0.814,0.823,0.805,0.797,0.823,0.812,(2.6835)+(0.0022)Gln+(0.0082)Thr+(-0.0074)Ala+(0.0029)Orn+(0.0780)Phe+(-0.1716)Trp;0.813,0.845,0.779,0.766,0.768,0.820,0.806,0.790,(2.0476)+(-0.0858)Asn+(0.0036)Gly+(0.0103)Gln+(-0.1607)His+(0.0098)Orn+(0.0793)Phe;0.813,0.840,0.799,0.790,0.817,0.830,0.765,0.801,(4.7714)+(0.0406)Ser+(-0.0052)Gly+(-0.0721)Cit+(0.0073)Val+(-0.0058)Lys+(-0.1572)Trp;0.813,0.850,0.812,0.816,0.821,0.775,0.808,0.805,(4.3779)+(-0.0773)Asn+(0.0015)Gly+(0.0027)Pro+(0.0092)Orn+(0.0715)Phe+(-0.1560)Trp;0.813,0.849,0.754,0.741,0.754,0.807,0.753,0.764,(2.2569)+(0.0378)Ser+(-0.0200)Arg+(-0.0003)Pro+(-0.0099)Lys+(0.0653)Ile+(-0.1616)Trp;0.813,0.846,0.795,0.789,0.808,0.788,0.788,0.793,(3.8979)+(0.0040)Gly+(-0.0869)Cit+(-0.0169)Val+(0.0318)Leu+(0.0908)Phe+(-0.1756)Trp;0.813,0.844,0.819,0.814,0.812,0.826,0.839,0.823,(4.0460)+(-0.0375)Asn+(0.0066)Gln+(-0.1760)Met+(0.0035)Orn+(0.0612)Ile+(-0.1471)Trp;0.813,0.843,0.765,0.733,0.744,0.834,0.841,0.788,(4.8893)+(-0.0504)Asn+(-0.1382)His+(0.0

189)Thr+(-0.0072)Ala+(0.0403)Ile+(0.0608)Phe;0.813,0.841,0.774,0.751,0.764,0.824,0.823,0.790,(1.9145)+(0.0113)Gln+(-0.1697)His+(-0.0205)Arg+(-0.0070)Lys+(0.0350)Ile+(0.0606)Phe;0.813,0.849,0.781,0.765,0.715,0.856,0.905,0.810,(2.8322)+(-0.0115)Ala+(-0.0757)Cit+(-0.0502)Val+(-0.0135)Lys+(0.1799)Ile+(0.0626)Phe;0.813,0.848,0.839,0.852,0.830,0.812,0.846,0.835,(4.8817)+(-0.0720)Asn+(-0.0039)Ala+(-0.0068)Val+(0.0055)Lys+(0.0943)Phe+(-0.1423)Trp;0.813,0.844,0.801,0.799,0.761,0.838,0.865,0.816,(0.8105)+(-0.0078)Ala+(-0.2758)Met+(-0.0013)Orn+(0.1841)Ile+(-0.0943)Leu+(0.1054)Phe;0.813,0.843,0.801,0.812,0.811,0.814,0.739,0.794,(6.8778)+(-0.0020)Gly+(0.0255)Thr+(0.0089)Pro+(-0.0021)Val+(-0.1964)Met+(-0.1396)Trp;0.813,0.842,0.797,0.781,0.823,0.833,0.761,0.799,(8.2474)+(-0.0731)His+(-0.0770)Cit+(-0.0004)Arg+(0.0562)Orn+(0.0036)Lys+(-0.1140)Trp;0.813,0.839,0.789,0.770,0.765,0.853,0.842,0.808,(3.4694)+(0.0104)Gln+(-0.1483)His+(-0.0066)Ala+(-0.0187)Arg+(0.0028)Pro+(0.0546)Ile;0.813,0.843,0.803,0.817,0.803,0.831,0.748,0.800,(6.7592)+(0.0238)Thr+(-0.0043)Ala+(0.0117)Pro+(-0.0007)Val+(-0.1790)Met+(-0.1357)Trp;0.813,0.840,0.736,0.697,0.739,0.844,0.755,0.759,(3.5489)+(0.0403)Ser+(-0.1440)His+(-0.0045)Ala+(0.0233)Orn+(-0.0097)Lys+(0.0256)Leu;0.813,0.843,0.790,0.787,0.814,0.783,0.755,0.784,(3.9677)+(0.0040)Gly+(-0.0956)Cit+(-0.0039)Arg+(0.0055)Pro+(0.0897)Phe+(-0.1765)Trp;0.813,0.843,0.810,0.809,0.814,0.814,0.802,0.810,(4.1612)+(0.0044)Gly+(-0.0066)Ala+(-0.0947)Cit+(0.0119)Leu+(0.0990)Phe+(-0.1704)Trp;0.813,0.847,0.776,0.773,0.752,0.801,0.818,0.786,(-1.9319)+(0.0039)Gln+(0.0135)Thr+(-0.4117)Met+(0.1736)Ile+(-0.0953)Leu+(0.1133)Phe;0.813,0.843,0.778,0.770,0.711,0.852,0.888,0.805,(1.9154)+(-0.0125)Ala+(-0.0852)Cit+(-0.0360)Val+(0.2091)Ile+(-0.0513)Leu+(0.0648)Phe;0.813,0.847,0.795,0.788,0.795,0.777,0.825,0.796,(3.9803)+(-0.0711)Asn+(0.0021)Gly+(-0.0006)Orn+(0.0401)Ile+(0.0571)Phe+(-0.1687)Trp;0.813,0.845,0.799,0.810,0.799,0.

836,0.744,0.797,(5.0696)+(0.0350)Ser+(-0.1085)Asn+(0.0080)Thr+(-0.0003)Val+(0.0014)Lys+(-0.1380)Trp;0.813,0.844,0.763,0.764,0.757,0.737,0.790,0.762,(2.9471)+(0.0105)Thr+(-0.0465)Tyr+(-0.0080)Orn+(0.0436)Ile+(0.0732)Phe+(-0.1806)Trp;0.813,0.841,0.788,0.785,0.813,0.828,0.719,0.786,(4.4488)+(0.0307)Ser+(0.0028)Thr+(-0.0805)Cit+(-0.0013)Tyr+(0.0057)Val+(-0.1643)Trp;0.813,0.839,0.758,0.734,0.731,0.830,0.826,0.780,(6.3992)+(-0.0602)Asn+(-0.0763)His+(-0.0145)Arg+(-0.0440)Val+(0.0375)Orn+(0.1422)Ile;0.813,0.844,0.792,0.776,0.806,0.821,0.785,0.797,(7.7239)+(-0.0998)His+(-0.0006)Tyr+(0.0038)Val+(0.0310)Orn+(0.0063)Lys+(-0.1090)Trp;0.813,0.842,0.763,0.751,0.711,0.878,0.821,0.790,(0.6994)+(0.0292)Ser+(-0.0001)Gln+(-0.0136)Ala+(-0.0992)Cit+(0.1894)Ile+(-0.0840)Leu;0.812,0.842,0.752,0.727,0.718,0.812,0.844,0.775,(4.3967)+(-0.1034)His+(-0.0180)Arg+(-0.0403)Val+(-0.0012)Lys+(0.1272)Ile+(0.0719)Phe;0.812,0.849,0.801,0.816,0.792,0.793,0.785,0.796,(3.7312)+(0.0186)Thr+(-0.0056)Ala+(-0.0340)Tyr+(-0.0076)Lys+(0.1024)Phe+(-0.1589)Trp;0.812,0.845,0.811,0.815,0.805,0.795,0.822,0.809,(3.5773)+(-0.0013)Gly+(0.0118)Thr+(-0.0075)Ala+(0.0038)Leu+(0.0773)Phe+(-0.1718)Trp;0.812,0.843,0.790,0.809,0.786,0.753,0.777,0.781,(3.7831)+(-0.0030)Gly+(0.0167)Thr+(-0.0467)Tyr+(-0.0075)Val+(0.1021)Phe+(-0.1593)Trp;0.812,0.843,0.818,0.817,0.832,0.803,0.803,0.814,(4.8802)+(-0.0885)Cit+(0.0021)Arg+(-0.0009)Val+(-0.0044)Lys+(0.0962)Phe+(-0.1667)Trp;0.812,0.842,0.804,0.799,0.819,0.826,0.771,0.804,(3.9446)+(0.0357)Ser+(-0.0054)Gly+(0.0024)Gln+(-0.0764)Cit+(0.0051)Val+(-0.1656)Trp;0.812,0.840,0.708,0.658,0.710,0.818,0.760,0.737,(2.0986)+(0.0404)Ser+(-0.1537)His+(-0.0045)Thr+(-0.0017)Pro+(0.0104)Orn+(0.0551)Ile;0.812,0.850,0.786,0.779,0.797,0.810,0.766,0.788,(5.6128)+(0.0288)Thr+(-0.0141)Arg+(-0.2304)Met+(0.0001)Lys+(0.0661)Ile+(-0.1523)Trp;0.812,0.850,0.825,0.836,0.810,0.804,0.838,0.822,(2.7536)+(0.0027)Gln+(

-0.0060)Ala+(-0.0054)Val+(0.0103)Orn+(0.0823)Phe+(-0.1601)Trp;0.812,0.848,0.755,0.720,0.767,0.822,0.778,0.772,(5.7110)+(-0.1310)His+(0.0311)Thr+(-0.2437)Met+(0.0125)Orn+(-0.0008)Lys+(0.0662)Ile;0.812,0.837,0.710,0.673,0.702,0.808,0.751,0.734,(2.6431)+(0.0388)Ser+(-0.1450)His+(0.0005)Thr+(0.0005)Pro+(-0.0254)Tyr+(0.0599)Ile;0.812,0.837,0.770,0.756,0.721,0.838,0.860,0.793,(6.2490)+(-0.0781)His+(-0.0059)Ala+(-0.0107)Arg+(-0.0083)Tyr+(-0.0373)Val+(0.1503)Ile;0.812,0.849,0.831,0.843,0.816,0.801,0.850,0.827,(2.7170)+(-0.0007)Gly+(0.0033)Gln+(-0.0059)Ala+(-0.0042)Val+(0.0860)Phe+(-0.1627)Trp;0.812,0.846,0.799,0.809,0.800,0.839,0.745,0.798,(5.0539)+(0.0353)Ser+(-0.1073)Asn+(0.0081)Thr+(0.0021)Tyr+(-0.0001)Val+(-0.1379)Trp;0.812,0.845,0.801,0.792,0.784,0.834,0.838,0.812,(5.9367)+(-0.0662)Asn+(0.0159)Thr+(-0.0079)Ala+(0.0040)Orn+(0.0616)Ile+(-0.1547)Trp;0.812,0.845,0.817,0.825,0.827,0.786,0.796,0.808,(3.4076)+(0.0018)Gly+(-0.2122)Met+(0.0104)Orn+(0.0012)Leu+(0.1066)Phe+(-0.1425)Trp;0.812,0.845,0.789,0.790,0.774,0.814,0.804,0.795,(5.4948)+(0.0010)Gly+(-0.0246)Arg+(0.0066)Lys+(0.1553)Ile+(-0.0748)Leu+(-0.1411)Trp;0.812,0.845,0.805,0.798,0.812,0.835,0.787,0.808,(8.3525)+(-0.0083)Asn+(-0.0824)His+(-0.0010)Ala+(-0.0223)Met+(0.0392)Orn+(-0.0949)Trp;0.812,0.843,0.812,0.814,0.810,0.829,0.800,0.813,(5.1057)+(0.0479)Ser+(-0.0954)Asn+(-0.0072)Gly+(0.0008)Val+(0.0018)Lys+(-0.1370)Trp;0.812,0.834,0.777,0.764,0.759,0.849,0.796,0.792,(3.1940)+(0.0355)Ser+(-0.0059)Gly+(0.0066)Gln+(-0.1454)His+(0.0013)Thr+(-0.0023)Ala;0.812,0.849,0.814,0.822,0.825,0.780,0.797,0.806,(4.4644)+(-0.0627)Asn+(0.0023)Gly+(-0.0115)Arg+(0.0040)Pro+(0.0811)Phe+(-0.1573)Trp;0.812,0.849,0.746,0.714,0.728,0.807,0.824,0.768,(3.7170)+(-0.1258)His+(0.0164)Orn+(-0.0052)Lys+(0.1004)Ile+(-0.0533)Leu+(0.0684)Phe;0.812,0.840,0.760,0.734,0.772,0.833,0.750,0.772,(6.4963)+(0.0018)Gly+(-0.1216)His+(0.0401)Thr+(-0.0329)Val+(-0.2585)Met+(0.0781)Leu;0.812,0.840,0.756,0

.732,0.721,0.832,0.835,0.780,(6.4424)+(-0.0941)Asn+(-0.0817)His+(0.0194)Thr+(-0.0412)Val+(-0.0009)Lys+(0.1414)Ile;0.812,0.838,0.763,0.736,0.774,0.831,0.764,0.776,(6.6532)+(-0.1209)His+(0.0406)Thr+(-0.0334)Val+(-0.2599)Met+(0.0016)Lys+(0.0775)Leu;0.812,0.837,0.767,0.750,0.721,0.835,0.861,0.792,(6.0682)+(-0.0776)His+(-0.0075)Ala+(-0.0129)Arg+(0.0059)Pro+(-0.0386)Val+(0.1476)Ile;0.812,0.848,0.807,0.814,0.791,0.788,0.837,0.807,(3.5610)+(0.0003)Gly+(-0.0086)Ala+(0.0086)Pro+(0.0024)Leu+(0.0779)Phe+(-0.1637)Trp;0.812,0.847,0.799,0.798,0.792,0.842,0.788,0.805,(4.0536)+(0.0409)Ser+(-0.0993)Asn+(-0.0038)Ala+(0.0066)Tyr+(0.0186)Leu+(-0.1422)Trp;0.812,0.847,0.756,0.725,0.768,0.823,0.765,0.770,(6.0620)+(-0.1279)His+(0.0354)Thr+(-0.0109)Arg+(-0.2490)Met+(0.0026)Lys+(0.0677)Ile;0.812,0.845,0.809,0.820,0.814,0.793,0.778,0.801,(2.6625)+(0.0016)Gly+(0.0051)Gln+(-0.0957)Cit+(-0.0313)Tyr+(0.1049)Phe+(-0.1707)Trp;0.812,0.844,0.778,0.779,0.774,0.857,0.728,0.784,(3.3543)+(0.0283)Ser+(0.0069)Gln+(-0.1335)His+(0.0153)Thr+(0.0005)Ala+(-0.1760)Met;0.812,0.844,0.797,0.787,0.754,0.867,0.864,0.818,(2.9707)+(0.0049)Gln+(-0.0093)Arg+(0.0189)Tyr+(-0.0558)Val+(-0.3278)Met+(0.1916)Ile;0.812,0.842,0.742,0.716,0.732,0.800,0.790,0.760,(4.0750)+(-0.1278)His+(0.0137)Thr+(-0.0241)Arg+(0.1064)Ile+(-0.0583)Leu+(0.0775)Phe;0.812,0.838,0.772,0.762,0.733,0.842,0.833,0.792,(5.6746)+(0.0026)Gly+(-0.0977)His+(-0.0065)Ala+(-0.0152)Tyr+(0.1288)Ile+(-0.0472)Leu;0.812,0.851,0.797,0.797,0.811,0.767,0.785,0.790,(3.4056)+(0.0099)Thr+(0.0012)Pro+(-0.0092)Lys+(0.0008)Leu+(0.0737)Phe+(-0.1744)Trp;0.812,0.844,0.787,0.783,0.776,0.814,0.800,0.793,(5.6027)+(0.0006)Gly+(-0.0236)Arg+(0.0147)Orn+(0.1494)Ile+(-0.0710)Leu+(-0.1368)Trp;0.812,0.843,0.761,0.748,0.752,0.854,0.747,0.775,(4.4684)+(0.0457)Ser+(-0.0315)Asn+(-0.1055)His+(-0.0042)Ala+(0.0157)Pro+(-0.1187)Met;0.812,0.843,0.783,0.786,0.768,0.836,0.766,0.789,(3.5142)+(0.0290)Ser+(-0.0071)Ala+(0.0104)Pro+(0.0157)

Orn+(-0.0060)Lys+(-0.1406)Trp;0.812,0.842,0.776,0.766,0.770,0.852,0.760,0.787,(3.4002)+(0.0332)Ser+(-0.0905)Asn+(0.0073)Gln+(-0.1332)His+(-0.0085)Tyr+(0.0239)Orn;0.812,0.841,0.774,0.759,0.756,0.832,0.811,0.789,(4.2047)+(-0.0771)Asn+(0.0094)Gln+(-0.1448)His+(0.0151)Thr+(-0.0304)Tyr+(0.0493)Ile;0.812,0.848,0.784,0.775,0.768,0.815,0.818,0.794,(3.2193)+(0.0391)Ser+(-0.0072)Gly+(-0.0076)Ala+(0.0103)Pro+(0.0123)Leu+(-0.1552)Trp;0.812,0.847,0.790,0.776,0.750,0.856,0.861,0.811,(5.8287)+(-0.0314)Asn+(-0.0387)Cit+(0.0036)Pro+(-0.0533)Val+(-0.2272)Met+(0.1827)Ile;0.812,0.846,0.811,0.813,0.816,0.853,0.767,0.812,(3.4816)+(0.0386)Ser+(-0.0019)Ala+(0.0329)Tyr+(0.0048)Val+(-0.1837)Met+(-0.1469)Trp;0.812,0.841,0.780,0.786,0.760,0.833,0.770,0.787,(3.4975)+(0.0297)Ser+(-0.0025)Thr+(-0.0067)Ala+(0.0119)Pro+(-0.0047)Tyr+(-0.1413)Trp;0.812,0.841,0.767,0.762,0.748,0.803,0.793,0.776,(2.1994)+(0.0081)Gln+(-0.1612)His+(-0.0454)Tyr+(0.0168)Orn+(-0.0004)Leu+(0.0922)Phe;0.812,0.844,0.820,0.823,0.821,0.849,0.786,0.820,(4.4323)+(0.0344)Ser+(-0.0055)Gly+(0.0030)Gln+(-0.0025)Ala+(-0.0671)Cit+(-0.1483)Trp;0.812,0.843,0.791,0.776,0.782,0.821,0.828,0.801,(2.3745)+(-0.0784)Asn+(0.0109)Gln+(-0.1586)His+(0.0117)Orn+(-0.0028)Leu+(0.0762)Phe;0.812,0.842,0.787,0.782,0.811,0.779,0.759,0.783,(3.8498)+(0.0039)Gly+(-0.0987)Cit+(0.0051)Pro+(0.0021)Leu+(0.0870)Phe+(-0.1790)Trp;0.812,0.842,0.795,0.776,0.786,0.842,0.829,0.808,(3.1017)+(0.0123)Gln+(-0.1395)His+(-0.0118)Arg+(0.0018)Pro+(-0.1860)Met+(0.0621)Ile;0.812,0.852,0.800,0.801,0.800,0.783,0.809,0.798,(4.0196)+(-0.0208)Arg+(-0.0296)Val+(0.0222)Orn+(0.0438)Leu+(0.0782)Phe+(-0.1630)Trp;0.812,0.848,0.756,0.728,0.764,0.823,0.764,0.770,(6.2423)+(-0.1251)His+(0.0359)Thr+(-0.0099)Arg+(-0.0096)Tyr+(-0.2311)Met+(0.0697)Ile;0.812,0.845,0.822,0.832,0.831,0.783,0.802,0.812,(3.5905)+(-0.0288)Asn+(0.0026)Gly+(-0.2012)Met+(0.0069)Lys+(0.1096)Phe+(-0.1451)Trp;0.812,0.839,0.788,0.769,0.788,0.813,0.820,0.798,(8.

2864)+(-0.0114)Asn+(-0.0869)His+(0.0069)Pro+(-0.0190)Val+(0.0500)Leu+(-0.1087)Trp;0.812,0.848,0.744,0.717,0.757,0.842,0.717,0.758,(3.5588)+(0.0432)Ser+(-0.1243)His+(0.0104)Pro+(0.0027)Val+(-0.1733)Met+(0.0237)Orn;0.812,0.846,0.799,0.809,0.800,0.837,0.745,0.798,(5.0039)+(0.0352)Ser+(-0.1087)Asn+(0.0077)Thr+(0.0017)Tyr+(0.0012)Lys+(-0.1387)Trp;0.812,0.846,0.844,0.845,0.841,0.849,0.847,0.845,(5.8225)+(-0.0862)Asn+(0.0084)Gln+(-0.0688)Cit+(-0.0187)Val+(0.0445)Leu+(-0.1483)Trp;0.812,0.845,0.803,0.791,0.812,0.832,0.793,0.807,(8.2549)+(-0.0897)His+(-0.0017)Ala+(0.0059)Val+(-0.0299)Met+(0.0357)Orn+(-0.1013)Trp;0.812,0.845,0.789,0.786,0.778,0.811,0.803,0.795,(5.5421)+(-0.0264)Arg+(0.0132)Orn+(0.0053)Lys+(0.1517)Ile+(-0.0747)Leu+(-0.1403)Trp;0.812,0.843,0.782,0.790,0.746,0.801,0.825,0.790,(-1.4409)+(0.0048)Gln+(-0.0326)Tyr+(-0.3202)Met+(0.1783)Ile+(-0.0980)Leu+(0.1199)Phe;0.812,0.842,0.801,0.812,0.800,0.831,0.752,0.799,(6.4034)+(0.0210)Thr+(-0.0048)Ala+(0.0108)Pro+(-0.1783)Met+(0.0150)Orn+(-0.1364)Trp;0.812,0.842,0.757,0.731,0.729,0.838,0.825,0.781,(3.9678)+(0.0052)Gly+(-0.1365)His+(-0.0070)Ala+(-0.0062)Lys+(0.0499)Ile+(0.0649)Phe;0.812,0.839,0.779,0.761,0.790,0.812,0.781,0.786,(7.6419)+(0.0039)Gly+(-0.1000)His+(-0.0020)Arg+(0.0055)Pro+(0.0227)Leu+(-0.1121)Trp;0.812,0.847,0.789,0.793,0.797,0.822,0.738,0.787,(4.1272)+(0.0411)Ser+(-0.1011)Asn+(-0.0130)Arg+(0.0194)Orn+(0.0112)Leu+(-0.1402)Trp;0.812,0.845,0.811,0.817,0.806,0.850,0.776,0.812,(4.7392)+(0.0384)Ser+(-0.0932)Asn+(-0.0025)Ala+(0.0102)Tyr+(0.0022)Val+(-0.1357)Trp;0.812,0.844,0.799,0.788,0.805,0.833,0.794,0.805,(7.8312)+(-0.0942)His+(-0.0021)Ala+(0.0052)Tyr+(0.0335)Orn+(0.0073)Lys+(-0.1048)Trp;0.812,0.843,0.797,0.792,0.806,0.833,0.765,0.799,(8.1211)+(0.0023)Gly+(-0.0878)His+(-0.0013)Ala+(-0.0068)Arg+(0.0396)Orn+(-0.0953)Trp;0.812,0.840,0.802,0.793,0.792,0.830,0.825,0.810,(2.3133)+(-0.0637)Asn+(0.0132)Gln+(-0.1601)His+(-0.0183)Arg+(-0.0019)Leu+(0.0834)Phe

;0.812,0.839,0.797,0.791,0.805,0.820,0.776,0.798,(7.8540)+(0.0039)Gly+(-0.0950)His+(0.0076)Val+(-0.0722)Met+(0.0129)Lys+(-0.1080)Trp;0.812,0.853,0.819,0.841,0.811,0.785,0.804,0.810,(4.8712)+(-0.0728)Asn+(-0.0271)Tyr+(-0.0096)Val+(0.0230)Orn+(0.0969)Phe+(-0.1290)Trp;0.812,0.846,0.754,0.719,0.769,0.822,0.762,0.768,(6.0218)+(-0.1296)His+(0.0339)Thr+(-0.0110)Arg+(-0.2395)Met+(0.0141)Orn+(0.0648)Ile;0.812,0.845,0.814,0.806,0.830,0.801,0.811,0.812,(4.8935)+(-0.0931)Cit+(0.0048)Arg+(-0.0073)Lys+(0.0077)Leu+(0.0902)Phe+(-0.1722)Trp;0.812,0.845,0.773,0.790,0.772,0.738,0.753,0.763,(3.1472)+(0.0110)Thr+(0.0038)Pro+(-0.0470)Tyr+(-0.0037)Leu+(0.0920)Phe+(-0.1661)Trp;0.812,0.844,0.788,0.763,0.779,0.828,0.846,0.804,(4.6500)+(-0.1169)His+(-0.0044)Ala+(-0.0146)Tyr+(-0.1833)Met+(0.0547)Ile+(0.09
75)Phe;0.812,0.843,0.808,0.800,0.818,0.823,0.797,0.810,(8.3194)+(-0.0714)His+(-0.0301)Cit+(0.0106)Pro+(-0.0877)Met+(0.0139)Lys+(-0.1101)Trp;0.812,0.842,0.783,0.771,0.734,0.831,0.882,0.804,(4.1083)+(-0.1413)Asn+(-0.0541)Cit+(-0.0016)Pro+(-0.0596)Val+(0.1676)Ile+(0.0759)Phe;0.812,0.847,0.805,0.808,0.814,0.842,0.753,0.804,(3.3842)+(0.0379)Ser+(0.0306)Tyr+(0.0032)Val+(-0.1993)Met+(0.0028)Lys+(-0.1491)Trp;0.812,0.846,0.797,0.797,0.788,0.839,0.783,0.802,(4.1428)+(0.0411)Ser+(-0.0951)Asn+(-0.0034)Ala+(-0.0011)Lys+(0.0196)Leu+(-0.1399)Trp;0.812,0.844,0.779,0.785,0.769,0.742,0.812,0.777,(2.3705)+(0.0025)Gln+(-0.0402)Tyr+(-0.0058)Orn+(0.0437)Ile+(0.0690)Phe+(-0.1790)Trp;0.812,0.841,0.785,0.775,0.771,0.858,0.786,0.797,(3.0381)+(0.0352)Ser+(-0.0808)Asn+(0.0083)Gln+(-0.1407)His+(-0.0024)Ala+(0.0061)Val;0.812,0.839,0.804,0.791,0.795,0.833,0.837,0.814,(2.4108)+(-0.0767)Asn+(0.0129)Gln+(-0.1508)His+(-0.0466)Cit+(-0.0037)Lys+(0.0873)Phe;0.812,0.846,0.805,0.819,0.805,0.833,0.749,0.801,(3.1182)+(0.0328)Ser+(0.0028)Gln+(0.0041)Val+(-0.1634)Met+(0.0020)Lys+(-0.1438)Trp;0.812,0.843,0.809,0.793,0.819,0.822,0.8

22,0.814,(6.7491)+(-0.0058)Asn+(-0.0655)Cit+(-0.1065)Met+(0.0007)Lys+(0.0681)Ile+(-0.1519)Trp;0.812,0.842,0.797,0.780,0.824,0.835,0.762,0.800,(8.2170)+(-0.0735)His+(-0.0775)Cit+(0.0031)Tyr+(0.0558)Orn+(0.0033)Lys+(-0.1152)Trp;0.812,0.842,0.812,0.812,0.835,0.829,0.753,0.807,(8.1859)+(-0.0701)Asn+(0.0203)Thr+(-0.0703)Cit+(-0.0020)Arg+(0.0067)Pro+(-0.1500)Trp;0.812,0.841,0.781,0.784,0.761,0.833,0.777,0.789,(3.3256)+(0.0302)Ser+(-0.0033)Thr+(-0.0070)Ala+(0.0115)Pro+(0.0009)Val+(-0.1437)Trp;0.812,0.841,0.816,0.814,0.831,0.838,0.778,0.815,(7.9405)+(-0.0638)Asn+(0.0239)Thr+(-0.0047)Ala+(-0.0745)Cit+(0.0201)Leu+(-0.1567)Trp;0.812,0.839,0.793,0.768,0.784,0.851,0.840,0.810,(3.5796)+(-0.0588)Asn+(0.0122)Gln+(-0.1384)His+(-0.0502)Cit+(-0.0059)Lys+(0.0523)Ile;0.812,0.851,0.740,0.723,0.712,0.811,0.794,0.760,(-4.5853)+(0.0515)Ser+(-0.0098)Ala+(0.0108)Pro+(-0.4117)Met+(0.0586)Ile+(0.0885)Phe;0.812,0.842,0.808,0.818,0.810,0.834,0.761,0.806,(6.6069)+(0.0235)Thr+(-0.0047)Ala+(0.0110)Pro+(0.0140)Tyr+(-0.1951)Met+(-0.1403)Trp;0.812,0.836,0.742,0.710,0.732,0.800,0.803,0.761,(1.6443)+(0.0020)Gly+(0.0072)Gln+(-0.1770)His+(0.0039)Thr+(0.0294)Ile+(0.0522)Phe;0.812,0.837,0.808,0.801,0.837,0.835,0.749,0.805,(7.2753)+(-0.1047)Cit+(0.0018)Arg+(-0.0682)Met+(0.0562)Orn+(-0.0003)Lys+(-0.1430)Trp;0.812,0.850,0.812,0.802,0.820,0.788,0.837,0.812,(3.6530)+(-0.0037)Arg+(0.0040)Tyr+(-0.2348)Met+(0.0527)Ile+(0.0865)Phe+(-0.1530)Trp;0.812,0.840,0.794,0.788,0.819,0.825,0.735,0.792,(6.9019)+(-0.1112)Cit+(0.0067)Pro+(-0.0131)Tyr+(-0.0011)Val+(0.0539)Orn+(-0.1548)Trp;0.812,0.839,0.733,0.710,0.701,0.815,0.801,0.757,(5.2390)+(-0.1068)His+(0.0097)Thr+(-0.0331)Tyr+(-0.0333)Val+(0.0267)Orn+(0.1243)Ile;0.812,0.838,0.804,0.798,0.833,0.840,0.731,0.801,(6.9742)+(0.0022)Gly+(-0.1066)Cit+(0.0016)Arg+(-0.0724)Met+(0.0558)Orn+(-0.1431)Trp;0.812,0.845,0.815,0.822,0.818,0.815,0.792,0.812,(4.3705)+(0.0038)Gly+(-0.0050)Ala+(-0.0900)Cit+(-0.0114)Tyr+(0.1115)Phe

+(-0.1591)Trp;0.812,0.844,0.784,0.776,0.738,0.848,0.852,0.804,(4.2812)+(0.0032)Pro+(-0.0524)Val+(-0.3085)Met+(0.0088)Lys+(0.2023)Ile+(-0.0178)Leu;0.812,0.842,0.776,0.762,0.740,0.850,0.837,0.797,(4.4213)+(0.0009)Gly+(-0.0098)Arg+(-0.0571)Val+(-0.2744)Met+(0.0286)Orn+(0.1887)Ile;0.812,0.841,0.760,0.756,0.746,0.799,0.771,0.768,(2.3252)+(0.0081)Gln+(-0.1602)His+(0.0160)Thr+(-0.0470)Cit+(-0.0544)Tyr+(0.1083)Phe;0.812,0.839,0.803,0.795,0.802,0.824,0.812,0.808,(8.5370)+(-0.0829)His+(-0.0040)Ala+(-0.0007)Arg+(0.0102)Pro+(0.0067)Val+(-0.1053)Trp;0.812,0.838,0.741,0.718,0.708,0.815,0.815,0.764,(5.3934)+(0.0002)Gly+(-0.1002)His+(-0.0277)Tyr+(-0.0345)Val+(0.0304)Orn+(0.1263)Ile;0.812,0.838,0.777,0.765,0.736,0.840,0.847,0.797,(6.0504)+(-0.0918)His+(-0.0072)Ala+(0.0039)Pro+(-0.0195)Tyr+(0.1261)Ile+(-0.0484)Leu;0.812,0.837,0.760,0.741,0.753,0.804,0.793,0.773,(2.3625)+(0.0013)Gly+(0.0080)Gln+(-0.1734)His+(0.0106)Thr+(-0.0104)Lys+(0.0801)Phe;0.812,0.843,0.800,0.809,0.813,0.820,0.732,0.794,(6.4914)+(0.0237)Thr+(0.0085)Pro+(0.0113)Tyr+(-0.0024)Val+(-0.2107)Met+(-0.1414)Trp;0.812,0.842,0.800,0.799,0.822,0.827,0.742,0.797,(5.6636)+(0.0036)Gln+(-0.1142)Cit+(0.0061)Pro+(-0.0168)Tyr+(0.0490)Orn+(-0.1624)Trp;0.812,0.841,0.782,0.785,0.763,0.840,0.769,0.789,(3.6009)+(0.0304)Ser+(-0.0013)Thr+(-0.0067)Ala+(0.0116)Pro+(-0.0035)Lys+(-0.1400)Trp;0.812,0.848,0.801,0.793,0.772,0.882,0.827,0.818,(4.3672)+(0.0187)Thr+(-0.0093)Ala+(-0.0831)Cit+(-0.2144)Met+(0.1801)Ile+(-0.0741)Leu;0.812,0.844,0.787,0.771,0.798,0.819,0.784,0.793,(7.7602)+(0.0046)Gly+(-0.0918)His+(0.0073)Pro+(-0.0770)Met+(0.0248)Leu+(-0.1067)Trp;0.812,0.842,0.817,0.823,0.812,0.844,0.792,0.818,(5.4793)+(0.0486)Ser+(-0.0816)Asn+(-0.0071)Gly+(-0.0008)Ala+(-0.0078)Arg+(-0.1297)Trp;0.812,0.840,0.788,0.778,0.799,0.816,0.774,0.792,(7.7372)+(0.0035)Gly+(-0.0952)His+(0.0060)Pro+(0.0075)Tyr+(0.0063)Val+(-0.1090)Trp;0.812,0.842,0.765,0.739,0.783,0.862,0.729,0.778,(5.1289)+(0.0398)S

er+(-0.0682)Asn+(-0.1042)His+(-0.0040)Ala+(-0.0749)Cit+(0.0538)Orn;0.812,0.845,0.819,0.820,0.831,0.796,0.805,0.813,(3.0184)+(0.0051)Gln+(-0.0918)Cit+(-0.0082)Arg+(0.0025)Leu+(0.0858)Phe+(-0.1811)Trp;0.812,0.843,0.777,0.759,0.783,0.831,0.775,0.787,(3.7151)+(0.0094)Gln+(-0.1539)His+(0.0262)Thr+(0.0049)Pro+(-0.2416)Met+(0.0237)Leu;0.812,0.845,0.828,0.829,0.830,0.820,0.828,0.827,(5.0601)+(-0.0054)Ala+(-0.0889)Cit+(0.0043)Arg+(-0.0031)Lys+(0.1058)Phe+(-0.1596)Trp;0.812,0.843,0.801,0.808,0.815,0.795,0.760,0.794,(4.3403)+(0.0038)Gly+(-0.0907)Cit+(-0.0206)Tyr+(-0.0036)Lys+(0.1087)Phe+(-0.1622)Trp;0.812,0.842,0.788,0.784,0.814,0.828,0.713,0.785,(4.6230)+(0.0309)Ser+(0.0048)Thr+(-0.0757)Cit+(-0.0072)Arg+(0.0055)Val+(-0.1638)Trp;0.812,0.838,0.759,0.760,0.750,0.778,0.762,0.762,(5.4351)+(-0.0796)Asn+(-0.1284)His+(0.0310)Thr+(-0.0548)Tyr+(-0.0078)Val+(0.1252)Phe;0.812,0.838,0.779,0.761,0.748,0.842,0.843,0.799,(3.6555)+(0.0082)Gln+(-0.1427)His+(-0.0064)Ala+(0.0035)Pro+(-0.0193)Tyr+(0.0555)Ile;0.812,0.836,0.750,0.728,0.755,0.838,0.737,0.764,(2.2269)+(0.0332)Ser+(0.0076)Gln+(-0.1658)His+(0.0038)Thr+(-0.0240)Arg+(0.0179)Leu;0.812,0.844,0.787,0.772,0.787,0.844,0.788,0.798,(3.9747)+(0.0094)Gln+(-0.1537)His+(0.0270)Thr+(-0.0020)Ala+(-0.2192)Met+(0.0275)Leu;0.812,0.843,0.771,0.773,0.706,0.863,0.834,0.794,(1.9133)+(0.0368)Ser+(-0.1126)Asn+(-0.0090)Ala+(-0.0245)Tyr+(0.1694)Ile+(-0.0763)Leu;0.812,0.842,0.794,0.808,0.803,0.817,0.723,0.788,(6.3225)+(0.0212)Thr+(0.0084)Pro+(-0.0037)Val+(-0.1966)Met+(0.0155)Orn+(-0.1365)Trp;0.812,0.840,0.751,0.724,0.722,0.834,0.823,0.776,(3.6788)+(0.0050)Gly+(-0.1403)His+(-0.0077)Ala+(0.0025)Pro+(0.0448)Ile+(0.0598)Phe;0.812,0.837,0.802,0.796,0.826,0.822,0.750,0.799,(5.4525)+(0.0037)Gln+(-0.1150)Cit+(-0.0134)Tyr+(0.0485)Orn+(0.0104)Leu+(-0.1696)Trp;0.812,0.841,0.782,0.787,0.761,0.834,0.776,0.789,(3.3434)+(0.0298)Ser+(0.0002)Gln+(-0.0033)Thr+(-0.0069)Ala+(0.0116)Pro+(-0.1428)Trp;0.812,0.840,0.74

6,0.710,0.750,0.846,0.764,0.767,(3.9416)+(0.0432)Ser+(-0.0654)Asn+(-0.1348)His+(-0.0042)Ala+(0.0238)Orn+(0.0211)Leu;0.812,0.843,0.761,0.741,0.733,0.823,0.830,0.782,(4.6815)+(-0.1338)His+(-0.0055)Ala+(-0.0424)Tyr+(0.0218)Orn+(0.0426)Ile+(0.0724)Phe;0.812,0.846,0.744,0.724,0.758,0.839,0.698,0.755,(3.8618)+(0.0409)Ser+(-0.1251)His+(0.0147)Thr+(0.0103)Pro+(0.0053)Val+(-0.2100)Met;0.812,0.842,0.773,0.767,0.755,0.810,0.797,0.782,(2.3178)+(0.0085)Gln+(-0.1587)His+(-0.0424)Tyr+(0.0183)Orn+(-0.0049)Lys+(0.0933)Phe;0.812,0.839,0.726,0.734,0.665,0.805,0.778,0.745,(-0.5421)+(0.0293)Ser+(-0.0397)Arg+(-0.0561)Tyr+(-0.0554)Val+(0.1574)Ile+(0.0799)Phe;0.812,0.837,0.770,0.754,0.723,0.838,0.861,0.794,(6.0284)+(-0.0821)His+(-0.0064)Ala+(-0.0132)Arg+(-0.0381)Val+(0.0033)Lys+(0.1490)Ile;0.812,0.836,0.763,0.741,0.758,0.807,0.802,0.777,(2.4829)+(0.0084)Gln+(-0.1750)His+(0.0116)Thr+(-0.0117)Lys+(0.0047)Leu+(0.0741)Phe;0.812,0.834,0.753,0.733,0.752,0.840,0.749,0.768,(2.6313)+(0.0318)Ser+(0.0065)Gln+(-0.1580)His+(-0.0002)Thr+(0.0072)Val+(-0.0072)Lys;0.812,0.850,0.838,0.855,0.829,0.810,0.833,0.832,(2.7620)+(0.0047)Gln+(-0.0052)Ala+(-0.0197)Arg+(-0.0041)Val+(0.0941)Phe+(-0.1615)Trp;0.812,0.845,0.737,0.698,0.754,0.831,0.738,0.755,(2.8811)+(0.0501)Ser+(-0.1319)His+(0.0092)Pro+(0.0073)Tyr+(-0.2106)Met+(0.0261)Leu;0.812,0.840,0.790,0.785,0.817,0.823,0.721,0.786,(6.6136)+(0.0017)Gly+(-0.1140)Cit+(0.0064)Pro+(-0.0125)Tyr+(0.0528)Orn+(-0.1576)Trp;0.812,0.847,0.830,0.838,0.822,0.814,0.837,0.828,(4.4762)+(-0.0620)Asn+(0.0021)Gly+(-0.0051)Ala+(0.0033)Leu+(0.0875)Phe+(-0.1503)Trp;0.812,0.846,0.755,0.742,0.759,0.798,0.747,0.762,(2.0245)+(0.0346)Ser+(0.0003)Gln+(-0.0263)Arg+(-0.0002)Pro+(0.0586)Ile+(-0.1709)Trp;0.812,0.844,0.821,0.820,0.804,0.837,0.851,0.828,(4.0416)+(0.0061)Gln+(-0.0054)Ala+(-0.0081)Arg+(-0.1549)Met+(0.0738)Ile+(-0.1456)Trp;0.812,0.844,0.779,0.761,0.744,0.852,0.847,0.801,(4.3900)+(-0.0091)Arg+(0.0124)Tyr+(-0.0584)Val+(-0.

2944)Met+(0.0284)Orn+(0.1908)Ile;0.812,0.842,0.827,0.828,0.836,0.829,0.806,0.824,(5.0194)+(0.0070)Gln+(-0.0747)Cit+(0.0086)Pro+(-0.1383)Met+(0.0150)Leu+(-0.1550)Trp;0.812,0.841,0.752,0.734,0.749,0.785,0.782,0.762,(1.3690)+(0.0337)Ser+(-0.0090)Thr+(-0.0012)Pro+(-0.0022)Orn+(0.0573)Ile+(-0.1713)Trp;0.812,0.839,0.716,0.682,0.729,0.806,0.713,0.732,(1.0760)+(0.0466)Ser+(-0.1610)His+(0.0060)Thr+(-0.0211)Cit+(-0.0211)Arg+(0.0999)Phe;0.812,0.837,0.781,0.773,0.715,0.866,0.881,0.809,(5.5927)+(-0.1317)Asn+(0.0182)Thr+(-0.0075)Ala+(-0.0562)Val+(-0.0037)Lys+(0.1834)Ile;0.812,0.836,0.721,0.682,0.718,0.815,0.762,0.744,(2.9192)+(0.0451)Ser+(-0.0033)Gly+(-0.1343)His+(-0.0340)Cit+(-0.0255)Tyr+(0.0617)Ile;0.812,0.844,0.819,0.827,0.831,0.792,0.791,0.810,(3.6155)+(0.0019)Gly+(-0.0068)Arg+(-0.2008)Met+(0.0131)Orn+(0.1070)Phe+(-0.1411)Trp;0.812,0.844,0.803,0.818,0.808,0.821,0.742,0.797,(4.8777)+(0.0041)Gln+(0.0194)Thr+(0.0075)Pro+(-0.2173)Met+(0.0088)Orn+(-0.1451)Trp;0.812,0.843,0.810,0.823,0.816,0.824,0.750,0.803,(4.8473)+(0.0044)Gln+(0.0206)Thr+(0.0075)Pro+(0.0108)Tyr+(-0.2318)Met+(-0.1483)Trp;0.812,0.844,0.812,0.822,0.816,0.790,0.792,0.805,(2.8005)+(0.0054)Gln+(-0.0944)Cit+(-0.0328)Tyr+(0.0035)Leu+(0.1012)Phe+(-0.1726)Trp;0.812,0.844,0.792,0.775,0.784,0.825,0.829,0.803,(2.4637)+(-0.0722)Asn+(0.0110)Gln+(-0.1581)His+(0.0127)Orn+(-0.0039)Lys+(0.0749)Phe;0.812,0.842,0.810,0.811,0.813,0.846,0.775,0.811,(5.2072
)+(0.0385)Ser+(-0.0053)Gly+(-0.0020)Ala+(-0.0621)Cit+(-0.0011)Lys+(-0.1425)Trp;0.812,0.841,0.764,0.778,0.678,0.819,0.864,0.785,(1.5198)+(-0.0093)Ala+(-0.0525)Tyr+(-0.0368)Val+(0.1980)Ile+(-0.0500)Leu+(0.0764)Phe;0.812,0.840,0.814,0.809,0.815,0.838,0.807,0.817,(9.1403)+(-0.0056)Asn+(-0.0597)His+(-0.0040)Ala+(-0.0402)Cit+(0.0133)Pro+(-0.1040)Trp;0.812,0.849,0.787,0.810,0.775,0.755,0.775,0.779,(3.4397)+(0.0058)Pro+(-0.0395)Tyr+(-0.0090)Val+(0.0129)Orn+(0.0946)Phe+(-0.1499)Trp;0.812

,0.845,0.816,0.829,0.818,0.792,0.793,0.808,(2.8295)+(0.0055)Gln+(-0.0925)Cit+(-0.0321)Tyr+(-0.0015)Val+(0.1063)Phe+(-0.1680)Trp;0.812,0.844,0.799,0.799,0.812,0.782,0.783,0.794,(4.8431)+(-0.0875)Cit+(0.0073)Pro+(-0.0295)Tyr+(-0.0030)Lys+(0.1028)Phe+(-0.1621)Trp;0.812,0.840,0.719,0.685,0.721,0.806,0.741,0.738,(1.0240)+(0.0477)Ser+(-0.1555)His+(-0.0219)Arg+(-0.0157)Val+(0.0261)Leu+(0.0986)Phe;0.812,0.839,0.778,0.767,0.736,0.850,0.840,0.798,(4.4087)+(0.0021)Gly+(0.0027)Pro+(-0.0501)Val+(-0.2829)Met+(0.1992)Ile+(-0.0157)Leu;0.812,0.834,0.733,0.700,0.726,0.830,0.763,0.755,(4.1907)+(0.0477)Ser+(-0.0954)Asn+(-0.1179)His+(0.0069)Pro+(-0.0275)Val+(0.0571)Leu;0.812,0.846,0.746,0.731,0.756,0.843,0.698,0.757,(3.9448)+(0.0392)Ser+(-0.1203)His+(0.0140)Thr+(0.0118)Pro+(-0.2174)Met+(0.0050)Lys;0.812,0.845,0.788,0.765,0.805,0.819,0.794,0.796,(7.9679)+(-0.1015)His+(-0.0040)Arg+(0.0015)Tyr+(0.0324)Orn+(0.0193)Leu+(-0.1123)Trp;0.812,0.843,0.777,0.791,0.777,0.733,0.771,0.768,(3.6263)+(-0.0030)Gly+(0.0139)Thr+(0.0035)Pro+(-0.0505)Tyr+(0.0879)Phe+(-0.1684)Trp;0.812,0.843,0.796,0.801,0.768,0.819,0.826,0.804,(-1.6220)+(0.0075)Gln+(-0.0265)Arg+(-0.3523)Met+(0.1887)Ile+(-0.1040)Leu+(0.1145)Phe;0.812,0.841,0.836,0.838,0.842,0.835,0.819,0.834,(5.6565)+(-0.0792)Asn+(0.0081)Gln+(-0.0813)Cit+(0.0064)Pro+(0.0111)Leu+(-0.1584)Trp;0.812,0.837,0.746,0.738,0.668,0.857,0.853,0.779,(1.1438)+(0.0285)Ser+(-0.0103)Ala+(-0.0411)Val+(-0.0165)Lys+(0.1946)Ile+(-0.0245)Leu;0.812,0.842,0.812,0.812,0.819,0.843,0.776,0.813,(7.4478)+(0.0148)Thr+(-0.0069)Ala+(-0.0774)Cit+(0.0128)Pro+(-0.0013)Lys+(-0.1490)Trp;0.812,0.840,0.769,0.767,0.749,0.804,0.793,0.778,(2.3031)+(0.0078)Gln+(-0.1567)His+(-0.0435)Tyr+(-0.0041)Val+(0.0196)Orn+(0.0970)Phe;0.812,0.838,0.734,0.698,0.710,0.808,0.827,0.761,(3.7745)+(-0.1165)His+(0.0109)Thr+(-0.0430)Cit+(-0.0358)Val+(0.1150)Ile+(0.0666)Phe;0.812,0.846,0.748,0.736,0.764,0.846,0.678,0.756,(4.6138)+(0.0405)Ser+(-0.1157)His+(0.

0187)Thr+(-0.0161)Arg+(0.0121)Pro+(-0.1929)Met;0.812,0.843,0.763,0.748,0.762,0.859,0.739,0.777,(4.4759)+(0.0450)Ser+(-0.0994)His+(-0.0048)Ala+(-0.0369)Cit+(0.0171)Pro+(-0.1428)Met;0.812,0.847,0.807,0.814,0.792,0.789,0.833,0.807,(3.5899)+(-0.0000)Gly+(-0.0085)Ala+(0.0083)Pro+(0.0066)Orn+(0.0753)Phe+(-0.1615)Trp;0.812,0.846,0.824,0.820,0.826,0.818,0.834,0.825,(5.1663)+(-0.0061)Ala+(-0.0879)Cit+(-0.0043)Lys+(0.0123)Leu+(0.0990)Phe+(-0.1651)Trp;0.812,0.844,0.790,0.788,0.763,0.814,0.837,0.800,(-1.5121)+(0.0052)Gln+(-0.3611)Met+(-0.0044)Lys+(0.1770)Ile+(-0.0954)Leu+(0.1094)Phe;0.812,0.843,0.825,0.826,0.828,0.816,0.827,0.824,(4.9163)+(-0.0058)Ala+(-0.0881)Cit+(0.0022)Arg+(0.0013)Val+(0.1021)Phe+(-0.1634)Trp;0.812,0.843,0.715,0.678,0.721,0.819,0.727,0.736,(2.9642)+(0.0417)Ser+(-0.1417)His+(-0.0192)Arg+(-0.0262)Tyr+(0.0193)Orn+(0.0585)Ile;0.812,0.838,0.802,0.789,0.792,0.831,0.835,0.812,(2.3151)+(-0.0827)Asn+(0.0128)Gln+(-0.1524)His+(-0.0455)Cit+(-0.0003)Leu+(0.0847)Phe;0.812,0.838,0.795,0.792,0.823,0.826,0.720,0.790,(6.8019)+(0.0086)Thr+(-0.1115)Cit+(-0.0127)Tyr+(0.0003)Val+(0.0518)Orn+(-0.1590)Trp;0.812,0.837,0.763,0.742,0.742,0.826,0.817,0.782,(3.3094)+(0.0006)Gly+(0.0076)Gln+(-0.1384)His+(-0.0054)Lys+(0.0962)Ile+(-0.0354)Leu;0.812,0.837,0.778,0.770,0.710,0.862,0.881,0.806,(5.4760)+(-0.1357)Asn+(0.0158)Thr+(-0.0085)Ala+(0.0051)Pro+(-0.0568)Val+(0.1782)Ile;0.812,0.851,0.801,0.800,0.816,0.768,0.793,0.794,(3.6815)+(-0.0015)Gly+(0.0112)Thr+(0.0012)Pro+(-0.0092)Lys+(0.0731)Phe+(-0.1742)Trp;0.812,0.847,0.832,0.845,0.833,0.789,0.823,0.823,(3.6835)+(-0.0015)Ala+(-0.0069)Val+(-0.2078)Met+(0.0088)Lys+(0.1201)Phe+(-0.1395)Trp;0.812,0.845,0.753,0.740,0.758,0.797,0.744,0.760,(2.0796)+(0.0348)Ser+(-0.0264)Arg+(-0.0003)Pro+(0.0025)Orn+(0.0580)Ile+(-0.1705)Trp;0.812,0.845,0.789,0.778,0.746,0.854,0.860,0.809,(4.1610)+(0.0133)Tyr+(-0.0535)Val+(-0.3204)Met+(0.0079)Lys+(0.2080)Ile+(-0.0175)Leu;0.812,0.848,0.791,0.779,0.804,0.

820,0.772,0.794,(8.1063)+(-0.0888)His+(-0.0080)Arg+(0.0066)Pro+(-0.0002)Tyr+(0.0351)Orn+(-0.1022)Trp;0.812,0.844,0.833,0.839,0.837,0.803,0.834,0.828,(4.3231)+(-0.0168)Asn+(-0.0027)Ala+(-0.1677)Met+(0.0046)Leu+(0.1082)Phe+(-0.1412)Trp;0.812,0.839,0.807,0.802,0.804,0.827,0.812,0.811,(8.6615)+(-0.0091)Asn+(-0.0766)His+(-0.0038)Ala+(0.0108)Pro+(0.0131)Tyr+(-0.1023)Trp;0.812,0.836,0.757,0.727,0.757,0.851,0.770,0.776,(4.4400)+(0.0408)Ser+(-0.0050)Gly+(-0.1288)His+(-0.0027)Ala+(0.0306)Orn+(-0.0049)Lys;0.812,0.843,0.808,0.807,0.818,0.834,0.771,0.807,(4.3940)+(0.0341)Ser+(-0.0058)Gly+(0.0022)Gln+(0.0037)Thr+(-0.0709)Cit+(-0.1585)Trp;0.812,0.843,0.788,0.769,0.800,0.842,0.771,0.796,(3.9409)+(0.0101)Gln+(-0.1474)His+(0.0285)Thr+(-0.0427)Cit+(-0.2343)Met+(0.0277)Leu;0.812,0.840,0.790,0.785,0.815,0.832,0.725,0.789,(4.6469)+(0.0340)Ser+(-0.0784)Cit+(-0.0012)Arg+(0.0077)Val+(-0.0054)Lys+(-0.1586)Trp;0.812,0.837,0.778,0.781,0.760,0.805,0.791,0.784,(2.0647)+(0.0116)Gln+(-0.1620)His+(-0.0232)Arg+(0.0039)Pro+(-0.0445)Tyr+(0.1017)Phe;0.812,0.836,0.744,0.716,0.742,0.831,0.757,0.762,(2.4243)+(0.0347)Ser+(0.0061)Gln+(-0.1595)His+(-0.0097)Tyr+(-0.0098)Lys+(0.0248)Leu;0.812,0.849,0.813,0.824,0.791,0.792,0.842,0.812,(2.6823)+(0.0027)Gln+(-0.0088)Ala+(0.0079)Pro+(0.0020)Leu+(0.0756)Phe+(-0.1688)Trp;0.812,0.844,0.780,0.763,0.785,0.835,0.773,0.789,(3.8246)+(0.0003)Gly+(0.0094)Gln+(-0.1558)His+(0.0269)Thr+(-0.2302)Met+(0.0263)Leu;0.812,0.842,0.794,0.793,0.784,0.864,0.768,0.802,(3.2700)+(0.0348)Ser+(-0.0617)Asn+(0.0087)Gln+(-0.1251)His+(0.0004)Ala+(-0.0866)Met;0.812,0.842,0.753,0.747,0.758,0.777,0.743,0.756,(5.5921)+(-0.0683)Asn+(-0.1316)His+(0.0318)Thr+(-0.0412)Cit+(-0.0600)Tyr+(0.1168)Phe;0.812,0.840,0.743,0.728,0.670,0.854,0.857,0.777,(1.1157)+(0.0278)Ser+(-0.0105)Ala+(-0.0497)Val+(0.0170)Orn+(-0.0202)Lys+(0.1769)Ile;0.812,0.838,0.755,0.751,0.737,0.787,0.779,0.763,(2.3302)+(-0.0003)Gly+(0.0072)Gln+(-0.1664)His+(0.0144)Thr+(-0.0

527)Tyr+(0.1009)Phe;0.812,0.838,0.760,0.736,0.753,0.818,0.794,0.775,(1.4178)+(0.0032)Gly+(0.0104)Gln+(-0.1750)His+(-0.0252)Arg+(0.0316)Ile+(0.0613)Phe;0.812,0.845,0.788,0.775,0.749,0.856,0.852,0.808,(5.2377)+(-0.0421)Cit+(0.0027)Pro+(-0.0471)Val+(-0.2514)Met+(0.1976)Ile+(-0.0190)Leu;0.812,0.844,0.794,0.796,0.815,0.841,0.711,0.791,(5.1687)+(0.0294)Ser+(0.0077)Thr+(-0.0692)Cit+(-0.0066)Arg+(-0.0022)Lys+(-0.1527)Trp;0.812,0.849,0.802,0.802,0.819,0.768,0.793,0.795,(3.7070)+(-0.0016)Gly+(0.0118)Thr+(-0.0094)Lys+(0.0011)Leu+(0.0733)Phe+(-0.1746)Trp;0.812,0.841,0.816,0.820,0.821,0.840,0.776,0.814,(8.0173)+(-0.0390)Asn+(0.0044)Gly+(-0.0056)Ala+(-0.0734)Cit+(0.0146)Pro+(-0.1316)Trp;0.812,0.845,0.797,0.788,0.785,0.865,0.795,0.808,(2.7323)+(0.0397)Ser+(-0.0050)Gly+(0.0083)Gln+(-0.1351)His+(0.0179)Tyr+(-0.1547)Met;0.812,0.843,0.807,0.818,0.804,0.844,0.754,0.805,(4.9591)+(0.0395)Ser+(-0.0820)Asn+(-0.0018)Ala+(-0.0086)Arg+(0.0030)Val+(-0.1319)Trp;0.812,0.844,0.773,0.741,0.777,0.847,0.800,0.791,(6.0862)+(-0.0838)His+(-0.0638)Cit+(-0.1458)Met+(0.0414)Orn+(0.1306)Ile+(-0.0553)Leu;0.812,0.842,0.721,0.699,0.709,0.772,0.768,0.737,(4.0127)+(-0.1545)His+(0.0184)Thr+(-0.0643)Tyr+(0.0152)Orn+(0.0342)Ile+(0.0821)Phe;0.812,0.841,0.753,0.721,0.722,0.820,0.853,0.779,(4.3364)+(-0.0990)His+(-0.0410)Cit+(-0.0370)Val+(-0.0077)Lys+(0.1255)Ile+(0.0725)Phe;0.812,0.851,0.763,0.760,0.742,0.824,0.769,0.774,(-2.8536)+(0.0446)Ser+(-0.0478)Val+(-0.4126)Met+(0.0166)Orn+(0.0689)Leu+(0.1229)Phe;0.812,0.845,0.751,0.709,0.760,0.849,0.772,0.772,(3.1124)+(0.0490)Ser+(-0.1234)His+(0.0281)Tyr+(-0.0268)Val+(-0.2214)Met+(0.0702)Leu;0.812,0.850,0.828,0.845,0.831,0.786,0.808,0.817,(2.7161)+(-0.0003)Gly+(0.0044)Gln+(-0.0220)Arg+(-0.0068)Val+(0.0884)Phe+(-0.1665)Trp;0.812,0.849,0.738,0.708,0.763,0.834,0.695,0.750,(3.8330)+(0.0422)Ser+(-0.1389)His+(0.0247)Thr+(-0.0118)Arg+(-0.2277)Met+(0.0326)Leu;0.812,0.846,0.778,0.763,0.778,0.856,0.761,0.790,(2.0638)+(0

.0368)Ser+(0.0079)Gln+(-0.1479)His+(0.0171)Tyr+(0.0085)Val+(-0.1802)M
et;0.812,0.846,0.806,0.799,0.792,0.809,0.852,0.813,(3.9731)+(-0.0088)
Ala+(-0.0163)Arg+(0.0039)Orn+(0.0562)Ile+(0.0626)Phe+(-0.1663)Trp;0.8
12,0.842,0.801,0.799,0.816,0.834,0.752,0.800,(5.2520)+(0.0369)Ser+(-0
.0061)Gly+(0.0084)Thr+(-0.0613)Cit+(-0.0097)Arg+(-0.1552)Trp;0.812,0.
841,0.800,0.797,0.814,0.833,0.757,0.800,(5.0557)+(0.0361)Ser+(-0.0059
)Gly+(0.0064)Thr+(-0.0675)Cit+(-0.0036)Tyr+(-0.1546)Trp;0.812,0.838,0
.753,0.748,0.736,0.787,0.778,0.762,(2.2977)+(0.0072)Gln+(-0.1675)His+
(0.0143)Thr+(-0.0527)Tyr+(0.0020)Leu+(0.0988)Phe;0.812,0.851,0.819,0.
824,0.827,0.781,0.814,0.811,(4.6832)+(-0.0754)Asn+(0.0031)Pro+(0.0118
)Orn+(-0.0058)Leu+(0.0738)Phe+(-0.1514)Trp;0.812,0.847,0.822,0.830,0.
815,0.802,0.829,0.819,(3.6738)+(-0.0001)Gly+(-0.0056)Ala+(-0.0058)Val
+(0.0144)Orn+(0.0830)Phe+(-0.1537)Trp;0.812,0.843,0.775,0.768,0.708,0
.878,0.858,0.803,(1.1164)+(0.0422)Ser+(-0.1090)Asn+(-0.0097)Thr+(-0.0
098)Ala+(0.1741)Ile+(-0.0799)Leu;0.812,0.843,0.792,0.772,0.785,0.846,
0.823,0.806,(3.1815)+(0.0118)Gln+(-0.1412)His+(-0.0126)Arg+(-0.1787)M
et+(0.0103)Orn+(0.0606)Ile;0.812,0.840,0.794,0.806,0.814,0.804,0.713,
0.784,(6.6396)+(0.0262)Thr+(-0.0178)Arg+(0.0089)Pro+(-0.2071)Met+(0.0
078)Lys+(-0.1457)Trp;0.812,0.835,0.714,0.665,0.719,0.816,0.761,0.740,
(2.3680)+(0.0448)Ser+(-0.0023)Gly+(-0.1440)His+(-0.0009)Thr+(-0.0365)
Cit+(0.0564)Ile;0.812,0.847,0.826,0.832,0.829,0.803,0.819,0.821,(3.52
96)+(0.0024)Gly+(-0.0029)Ala+(-0.1906)Met+(0.0054)Leu+(0.1117)Phe+(-0
.1433)Trp;0.812,0.846,0.788,0.799,0.792,0.758,0.769,0.780,(4.0677)+(-
0.0032)Gly+(0.0199)Thr+(-0.0472)Tyr+(-0.0089)Lys+(0.0974)Phe+(-0.1634
)Trp;0.812,0.844,0.808,0.797,0.813,0.838,0.802,0.813,(8.3140)+(-0.014
5)Asn+(-0.0854)His+(-0.0017)Ala+(0.0097)Tyr+(0.0369)Orn+(-0.0995)Trp;
0.812,0.842,0.800,0.791,0.790,0.830,0.825,0.809,(2.2876)+(-0.0635)Asn
+(0.0132)Gln+(-0.1611)His+(-0.0182)Arg+(0.0004)Pro+(0.0805)Phe;0.812,

0.841,0.746,0.712,0.757,0.858,0.736,0.766,(4.0659)+(0.0362)Ser+(-0.1198)His+(-0.0082)Ala+(-0.0770)
Cit+(0.0115)Pro+(0.0467)Orn;0.812,0.843,0.788,0.802,0.727,0.843,0.840,0.803,(2.1328)+(-0.0110)Ala+(-0.0932)Cit+(-0.0581)Tyr+(0.1929)Ile+(-0.1006)Leu+(0.1024)Phe;0.812,0.852,0.806,0.818,0.813,0.773,0.786,0.798,(3.8103)+(0.0009)Gly+(-0.0185)Arg+(0.0056)Pro+(-0.0081)Val+(0.0898)Phe+(-0.1605)Trp;0.812,0.834,0.796,0.791,0.827,0.827,0.723,0.792,(6.7080)+(0.0018)Gly+(-0.1115)Cit+(-0.0039)Arg+(0.0004)Val+(0.0549)Orn+(-0.1574)Trp;0.812,0.846,0.812,0.816,0.808,0.796,0.820,0.810,(3.6158)+(-0.0014)Gly+(0.0111)Thr+(-0.0073)Ala+(0.0051)Orn+(0.0770)Phe+(-0.1685)Trp;0.812,0.846,0.801,0.793,0.788,0.833,0.825,0.809,(6.2449)+(-0.0530)Asn+(0.0203)Thr+(-0.0077)Ala+(-0.0150)Arg+(0.0647)Ile+(-0.1559)Trp;0.812,0.841,0.710,0.670,0.706,0.813,0.750,0.735,(2.6490)+(0.0376)Ser+(-0.1469)His+(-0.0008)Thr+(-0.0282)Tyr+(0.0149)Orn+(0.0573)Ile;0.812,0.839,0.825,0.831,0.822,0.850,0.799,0.826,(5.6579)+(0.0014)Gly+(0.0053)Gln+(-0.0069)Ala+(-0.0829)Cit+(0.0139)Pro+(-0.1501)Trp;0.812,0.838,0.715,0.681,0.715,0.812,0.735,0.736,(2.8646)+(0.0437)Ser+(-0.1390)His+(-0.0175)Arg+(0.0015)Pro+(-0.0222)Tyr+(0.0609)Ile;0.812,0.835,0.718,0.672,0.724,0.820,0.751,0.742,(2.5918)+(0.0474)Ser+(-0.0023)Gly+(-0.1416)His+(-0.0249)Cit+(-0.0138)Arg+(0.0576)Ile;0.812,0.843,0.815,0.820,0.821,0.855,0.761,0.814,(4.2943)+(0.0277)Ser+(0.0026)Gln+(-0.0032)Ala+(-0.0743)Cit+(0.0099)Tyr+(-0.1517)Trp;0.812,0.842,0.805,0.790,0.809,0.821,0.822,0.811,(6.7373)+(-0.0373)Asn+(-0.0784)Cit+(0.0065)Arg+(-0.0041)Tyr+(0.0615)Ile+(-0.1625)Trp;0.812,0.841,0.709,0.670,0.705,0.813,0.748,0.734,(2.6652)+(0.0372)Ser+(-0.1472)His+(0.0001)Pro+(-0.0288)Tyr+(0.0147)Orn+(0.0571)Ile;0.812,0.851,0.796,0.796,0.810,0.770,0.782,0.790,(3.3937)+(0.0092)Thr+(0.0011)Pro+(0.0042)Orn+(-0.0094)Lys+(0.0723)Phe+(-0.1729)Trp;0.812,0.845,0.800,0.787,0.812,0.829,0.785,0.803,

(8.1570)+(0.0002)Asn+(-0.0901)His+(0.0051)Val+(-0.0390)Met+(0.0351)Orn+(-0.1017)Trp;0.812,0.845,0.799,0.782,0.809,0.814,0.814,0.805,(7.9751)+(-0.0890)His+(0.0077)Pro+(-0.0981)Met+(0.0111)Lys+(0.0181)Leu+(-0.1132)Trp;0.812,0.843,0.787,0.794,0.777,0.838,0.749,0.790,(4.0289)+(0.0324)Ser+(-0.0062)Ala+(-0.0188)Arg+(0.0125)Pro+(-0.0011)Tyr+(-0.1401)Trp;0.812,0.843,0.796,0.795,0.816,0.831,0.734,0.794,(3.8685)+(0.0289)Ser+(0.0022)Gln+(-0.0827)Cit+(-0.0019)Tyr+(0.0058)Val+(-0.1658)Trp;0.812,0.843,0.766,0.759,0.718,0.880,0.807,0.791,(0.9696)+(0.0330)Ser+(-0.0125)Ala+(-0.0808)Cit+(-0.0178)Arg+(0.1934)Ile+(-0.0871)Leu;0.812,0.840,0.792,0.772,0.799,0.834,0.802,0.802,(7.6954)+(0.0045)Gly+(-0.1027)His+(-0.0032)Ala+(0.0196)Tyr+(0.0273)Leu+(-0.1151)Trp;0.812,0.840,0.782,0.768,0.781,0.856,0.766,0.793,(2.9252)+(0.0364)Ser+(-0.0874)Asn+(0.0092)Gln+(-0.1366)His+(-0.0417)Cit+(0.0058)Val;0.812,0.845,0.784,0.805,0.782,0.746,0.763,0.774,(2.5325)+(0.0020)Gln+(0.0100)Thr+(-0.0447)Tyr+(-0.0026)Leu+(0.0917)Phe+(-0.1693)Trp;0.812,0.844,0.778,0.768,0.773,0.856,0.761,0.790,(2.3668)+(0.0354)Ser+(0.0077)Gln+(-0.1447)His+(-0.0010)Ala+(0.0099)Val+(-0.1441)Met;0.812,0.839,0.775,0.764,0.769,0.850,0.765,0.787,(3.0836)+(0.0340)Ser+(-0.0913)Asn+(0.0081)Gln+(-0.1426)His+(0.0040)Thr+(0.0040)Val;0.812,0.839,0.788,0.765,0.772,0.845,0.839,0.805,(3.6308)+(-0.0567)Asn+(0.0109)Gln+(-0.1482)His+(-0.0023)Pro+(-0.0043)Lys+(0.0493)Ile;0.812,0.838,0.788,0.762,0.763,0.859,0.857,0.810,(3.3693)+(0.0094)Gln+(-0.1360)His+(-0.0087)Ala+(-0.0583)Cit+(0.0035)Pro+(0.0627)Ile;0.812,0.838,0.754,0.741,0.730,0.816,0.796,0.771,(6.3071)+(-0.0400)Asn+(-0.1066)His+(0.0160)Thr+(-0.0345)Tyr+(0.1077)Ile+(-0.0399)Leu;0.812,0.838,0.784,0.762,0.766,0.850,0.833,0.803,(3.5469)+(0.0099)Gln+(-0.1504)His+(-0.0062)Ala+(-0.0197)Arg+(0.0147)Orn+(0.0529)Ile;0.812,0.846,0.800,0.779,0.792,0.851,0.831,0.814,(2.9916)+(0.0127)Gln+(-0.1324)His+(-0.0444)Cit+(-0.0039)Arg+(-0.1889)Met+(0.0679)

Ile;0.812,0.842,0.808,0.809,0.817,0.854,0.751,0.808,(4.9612)+(0.0317)Ser+(-0.0029)Ala+(-0.0707)Cit+(0.0136)Tyr+(-0.0016)Lys+(-0.1473)Trp;0.812,0.839,0.786,0.783,0.770,0.862,0.771,0.797,(3.6433)+(0.0320)Ser+(-0.0920)Asn+(0.0080)Gln+(-0.1321)His+(0.0066)Thr+(-0.0015)Ala;0.812,0.838,0.790,0.777,0.763,0.848,0.838,0.806,(3.6772)+(0.0105)Gln+(-0.1448)His+(-0.0053)Ala+(-0.0177)Arg+(-0.0145)Tyr+(0.0589)Ile;0.812,0.835,0.714,0.675,0.714,0.816,0.743,0.737,(2.7797)+(0.0407)Ser+(-0.1351)His+(-0.0396)Cit+(0.0008)Pro+(-0.0240)Tyr+(0.0615)Ile;0.812,0.834,0.782,0.775,0.714,0.866,0.880,0.809,(5.4426)+(-0.1319)Asn+(0.0159)Thr+(-0.0076)Ala+(-0.0529)Val+(0.1894)Ile+(-0.0112)Leu;0.812,0.843,0.801,0.792,0.813,0.826,0.779,0.803,(8.1076)+(-0.0887)His+(-0.0086)Arg+(-0.0603)Met+(0.0354)Orn+(0.0125)Lys+(-0.1027)Trp;0.812,0.838,0.778,0.764,0.757,0.832,0.819,0.793,(3.6981)+(-0.0611)Asn+(0.0018)Gly+(0.0102)Gln+(-0.1433)His+(-0.0215)Tyr+(0.0498)Ile;0.812,0.835,0.750,0.725,0.737,0.841,0.778,0.770,(2.4057)+(0.0326)Ser+(0.0056)Gln+(-0.1585)His+(-0.0040)Ala+(-0.0084)Tyr+(0.0236)Leu;0.812,0.843,0.762,0.754,0.757,0.798,0.769,0.769,(2.8630)+(0.0287)Ser+(-0.0029)Thr+(0.0050)Pro+(-0.0233)Val+(0.0444)Leu+(-0.1586)Trp;0.812,0.841,0.803,0.793,0.810,0.827,0.794,0.806,(6.6764)+(0.0040)Gly+(-0.0079)Ala+(-0.0846)Cit+(0.0131)Pro+(0.0199)Leu+(-0.1549)Trp;0.811,0.840,0.781,0.770,0.759,0.832,0.822,0.796,(2.3659)+(0.0079)Gln+(-0.1603)His+(-0.0044)Ala+(-0.0040)Val+(0.0170)Orn+(0.0790)Phe;0.811,0.844,0.806,0.797,0.791,0.821,0.851,0.815,(5.8559)+(-0.0070)Ala+(0.0076)Pro+(-0.1453)Met+(0.0016)Lys+(0.0683)Ile+(-0.1398)Trp;0.811,0.841,0.755,0.726,0.738,0.844,0.805,0.778,(3.6586)+(0.0074)Gly+(-0.1273)His+(-0.0087)Ala+(-0.0625)Cit+(0.0555)Ile+(0.0691)Phe;0.811,0.838,0.795,0.789,0.821,0.824,0.735,0.792,(6.9828)+(-0.1098)Cit+(-0.0038)Arg+(0.0065)Pro+(-0.0122)Tyr+(0.0538)Orn+(-0.1559)Trp;0.811,0.837,0.798,0.792,0.829,0.831,0.724,0.794,(6.9945)+(0.0018)Gly+(-0.11

44)Cit+(-0.0029)Tyr+(0.0583)Orn+(-0.0045)Lys+(-0.1507)Trp;0.811,0.836,0.771,0.767,0.702,0.857,0.865,0.798,(4.0594)+(0.0084)Thr+(-0.0105)Ala+(-0.0740)Cit+(-0.0282)Tyr+(-0.0476)Val+(0.1770)Ile;0.811,0.838,0.762,0.739,0.742,0.826,0.818,0.781,(3.4101)+(0.0075)Gln+(-0.1401)His+(0.0031)Thr+(-0.0063)Lys+(0.0938)Ile+(-0.0338)Leu;0.811,0.838,0.778,0.767,0.715,0.869,0.872,0.806,(5.3471)+(-0.1462)Asn+(0.0134)Thr+(-0.0075)Ala+(-0.0584)Val+(0.0259)Orn+(0.1795)Ile;0.811,0.847,0.795,0.772,0.784,0.847,0.839,0.811,(3.0342)+(0.0111)Gln+(-0.1411)His+(0.0038)Tyr+(-0.1990)Met+(-0.0003)Lys+(0.0646)Ile;0.811,0.846,0.824,0.834,0.827,0.794,0.812,0.817,(3.3000)+(0.0023)Gly+(-0.0026)Ala+(-0.2055)Met+(0.0059)Lys+(0.1135)Phe+(-0.1448)Trp;0.811,0.846,0.800,0.792,0.800,0.820,0.803,0.804,(4.4040)+(0.0508)Ser+(-0.0975)Asn+(-0.0070)Gly+(-0.0023)Lys+(0.0154)Leu+(-0.1439)Trp;0.811,0.838,0.801,0.788,0.791,0.831,0.835,0.811,(2.3114)+(-0.0827)Asn+(0.0128)Gln+(-0.1525)His+(-0.0456)Cit+(0.0002)Pro+(0.0842)Phe;0.811,0.838,0.783,0.764,0.784,0.808,0.816,0.793,(7.8643)+(-0.0937)His+(0.0064)Pro+(-0.0177)Val+(0.0047)Lys+(0.0464)Leu+(-0.1133)Trp;0.811,0.837,0.713,0.675,0.713,0.815,0.740,0.736,(2.8590)+(0.0393)Ser+(-0.1367)His+(0.0036)Thr+(-0.0411)Cit+(-0.0253)Tyr+(0.0620)Ile;0.811,0.848,0.806,0.816,0.804,0.833,0.764,0.804,(3.4045)+(0.0386)Ser+(-0.1122)Asn+(0.0042)Gln+(-0.0126)Arg+(0.0137)Leu+(-0.1436)Trp;0.811,0.844,0.783,0.786,0.786,0.815,0.748,0.784,(4.2790)+(0.0381)Ser+(-0.1134)Asn+(0.0071)Thr+(-0.0043)Tyr+(0.0146)Leu+(-0.1458)Trp;0.811,0.837,0.780,0.771,0.755,0.831,0.820,0.794,(2.1355)+(0.0020)Gly+(0.0083)Gln+(-0.1633)His+(-0.0043)Ala+(-0.0019)Val+(0.0838)Phe;0.811,0.842,0.762,0.736,0.790,0.852,0.706,0.771,(4.8304)+(0.0412)Ser+(-0.0444)Asn+(-0.1042)His+(-0.0676)Cit+(-0.0939)Met+(0.0507)Orn;0.811,0.842,0.791,0.775,0.781,0.823,0.830,0.802,(2.3516)+(-0.0781)Asn+(0.0110)Gln+(-0.1600)His+(-0.0006)Pro+(0.0111)Orn+(0.0737)Phe;0.811,0.849,0.817,0.821

,0.828,0.779,0.811,0.810,(3.9162)+(-0.0045)Arg+(0.0079)Pro+(-0.0009)Tyr+(-0.2156)Met+(0.1088)Phe+(-0.1438)Trp;0.811,0.843,0.764,0.740,0.786,0.863,0.712,0.775,(4.7024)+(0.0374)Ser+(-0.1076)His+(-0.0025)Ala+(-0.0710)Cit+(-0.1075)Met+(0.0530)Orn;0.811,0.840,0.749,0.746,0.753,0.775,0.732,0.751,(5.6840)+(-0.0545)Asn+(-0.1395)His+(0.0340)Thr+(-0.0178)Arg+(-0.0609)Tyr+(0.1168)Phe;0.811,0.839,0.793,0.781,0.830,0.816,0.730,0.789,(6.5671)+(0.0094)Thr+(-0.1104)Cit+(-0.0084)Arg+(0.0480)Orn+(0.0095)Leu+(-0.1729)Trp;0.811,0.837,0.749,0.729,0.713,0.823,0.819,0.771,(4.1899)+(0.0043)Gln+(-0.1152)His+(-0.0269)Tyr+(-0.0305)Val+(0.0233)Orn+(0.1166)Ile;0.811,0.837,0.765,0.734,0.778,0.834,0.768,0.778,(6.5959)+(-0.1208)His+(0.0407)Thr+(0.0099)Tyr+(-0.0346)Val+(-0.2697)Met+(0.0792)Leu;0.811,0.851,0.812,0.818,0.798,0.800,0.835,0.813,(3.8005)+(-0.0083)Ala+(0.0083)Pro+(0.0089)Orn+(-0.0042)Lys+(0.0776)Phe+(-0.1573)Trp;0.811,0.847,0.747,0.725,0.762,0.842,0.703,0.758,(4.0003)+(0.0441)Ser+(-0.1188)His+(-0.0136)Arg+(0.0112)Pro+(-0.1541)Met+(0.0282)Orn;0.811,0.841,0.792,0.786,0.744,0.860,0.856,0.812,(3.2977)+(0.0046)Gln+(-0.0095)Arg+(0.0031)Pro+(-0.0539)Val+(-0.3007)Met+(0.1847)Ile;0.811,0.841,0.777,0.767,0.772,0.853,0.759,0.788,(3.1034)+(0.0370)Ser+(-0.0951)Asn+(0.0087)Gln+(-0.1286)His+(-0.0395)Cit+(0.0072)Pro;0.811,0.835,0.715,0.667,0.718,0.817,0.761,0.741,(2.4241)+(0.0445)Ser+(-0.0023)Gly+(-0.1443)His+(-0.0368)Cit+(-0.0016)Pro+(0.0584)Ile;0.811,0.852,0.811,0.818,0.816,0.770,0.816,0.805,(2.5512)+(0.0029)Gln+(0.0019)Pro+(-0.0077)Lys+(0.0003)Leu+(0.0728)Phe+(-0.1731)Trp;0.811,0.851,0.780,0.763,0.788,0.768,0.819,0.784,(3.3417)+(0.0094)Thr+(-0.0053)Orn+(-0.0138)Lys+(0.0479)Ile+(0.0574)Phe+(-0.1823)Trp;0.811,0.845,0.833,0.843,0.838,0.843,0.788,0.828,(5.8330)+(-0.0840)Asn+(0.0026)Gly+(0.0079)Gln+(-0.0813)Cit+(0.0084)Pro+(-0.1478)Trp;0.811,0.844,0.808,0.824,0.809,0.842,0.737,0.803,(3.2211)+(0.0345)Ser+(0.0036)Gln+(-0.0117)Arg+(0.0047)Va

l+(-0.1480)Met+(-0.1402)Trp;0.811,0.843,0.823,0.828,0.811,0.838,0.825,0.825,(6.0063)+(-0.1363)Asn+(0.0054)Gln+(0.0210)Thr+(-0.0324)Val+(0.0587)Leu+(-0.1408)Trp;0.811,0.839,0.774,0.748,0.766,0.831,0.818,0.791,(3.6602)+(-0.0810)Asn+(0.0097)Gln+(-0.1541)His+(0.0105)Thr+(0.0062)Orn+(0.0407)Ile;0.811,0.841,0.752,0.756,0.780,0.792,0.656,0.746,(-1.7860)+(0.0512)Ser+(-0.0953)Asn+(0.0205)Thr+(-0.0833)Cit+(-0.3619)Met+(0.1246)Phe;0.811,0.838,0.759,0.729,0.745,0.816,0.825,0.779,(1.8588)+(0.0083)Gln+(-0.1747)His+(-0.0045)Pro+(0.0048)Orn+(0.0338)Ile+(0.0510)Phe;0.811,0.841,0.775,0.758,0.780,0.829,0.772,0.785,(3.6100)+(0.0063)Gly+(-0.1306)His+(-0.0022)Ala+(-0.1850)Met+(0.0211)Orn+(0.1201)Phe;0.811,0.838,0.773,0.758,0.773,0.
817,0.779,0.782,(3.5985)+(0.0072)Gly+(-0.1237)His+(-0.0040)Ala+(0.0096)Pro+(-0.2092)Met+(0.1264)Phe;0.811,0.841,0.764,0.759,0.745,0.804,0.786,0.773,(2.1302)+(0.0008)Gly+(0.0079)Gln+(-0.1619)His+(-0.0449)Tyr+(0.0163)Orn+(0.0924)Phe;0.811,0.838,0.785,0.783,0.758,0.820,0.821,0.795,(2.2897)+(0.0091)Gln+(-0.1590)His+(-0.0031)Ala+(-0.0365)Tyr+(0.0040)Leu+(0.0934)Phe;0.811,0.837,0.808,0.801,0.837,0.833,0.751,0.805,(7.2203)+(-0.1052)Cit+(0.0020)Arg+(0.0011)Val+(-0.0708)Met+(0.0552)Orn+(-0.1449)Trp;0.811,0.843,0.784,0.774,0.741,0.855,0.851,0.805,(5.1392)+(-0.0431)Asn+(0.0032)Gly+(-0.0014)Arg+(-0.0550)Val+(-0.2346)Met+(0.1901)Ile;0.811,0.840,0.774,0.758,0.746,0.844,0.825,0.793,(6.1904)+(-0.1044)His+(0.0148)Thr+(-0.0073)Ala+(-0.0178)Arg+(0.1270)Ile+(-0.0488)Leu;0.811,0.839,0.774,0.757,0.743,0.858,0.823,0.795,(5.4218)+(0.0053)Gly+(-0.0842)His+(-0.0084)Ala+(-0.0630)Cit+(0.1415)Ile+(-0.0510)Leu;0.811,0.838,0.793,0.798,0.771,0.821,0.809,0.799,(2.2044)+(0.0117)Gln+(-0.1590)His+(-0.0023)Ala+(-0.0216)Arg+(-0.0356)Tyr+(0.1045)Phe;0.811,0.837,0.769,0.749,0.765,0.821,0.791,0.782,(2.6607)+(0.0092)Gln+(-0.1666)His+(0.0134)Thr+(-0.0486)Cit+(-0.0128)Lys+(0.0880)Phe;0.811,0.843,0.

825,0.823,0.799,0.844,0.872,0.834,(4.5322)+(-0.0604)Asn+(0.0057)Gln+(-0.0073)Ala+(-0.0036)Lys+(0.0652)Ile+(-0.1511)Trp;0.811,0.840,0.807,0.808,0.818,0.852,0.749,0.807,(4.9507)+(0.0320)Ser+(-0.0029)Ala+(-0.0678)Cit+(-0.0044)Arg+(0.0138)Tyr+(-0.1481)Trp;0.811,0.839,0.822,0.832,0.837,0.853,0.745,0.816,(8.4878)+(-0.0690)Asn+(0.0014)Gly+(0.0237)Thr+(-0.0027)Ala+(-0.0690)Cit+(-0.1404)Trp;0.811,0.834,0.741,0.698,0.741,0.843,0.783,0.766,(3.4310)+(0.0427)Ser+(-0.0040)Gly+(-0.1470)His+(-0.0048)Ala+(0.0201)Orn+(0.0203)Leu;0.811,0.833,0.752,0.725,0.743,0.828,0.789,0.771,(2.4681)+(0.0392)Ser+(-0.0061)Gly+(0.0063)Gln+(-0.1593)His+(-0.0206)Tyr+(0.0199)Leu;0.811,0.848,0.800,0.807,0.796,0.823,0.775,0.800,(3.3430)+(0.0377)Ser+(-0.1215)Asn+(0.0035)Gln+(-0.0019)Tyr+(0.0139)Leu+(-0.1451)Trp;0.811,0.845,0.832,0.839,0.832,0.810,0.827,0.827,(4.9801)+(-0.0519)Asn+(-0.0051)Ala+(-0.0116)Arg+(0.0184)Orn+(0.0815)Phe+(-0.1460)Trp;0.811,0.844,0.807,0.811,0.811,0.831,0.773,0.806,(4.3305)+(0.0485)Ser+(-0.0075)Gly+(-0.0082)Arg+(0.0054)Val+(-0.1331)Met+(-0.1382)Trp;0.811,0.844,0.801,0.806,0.819,0.841,0.720,0.796,(4.4267)+(0.0267)Ser+(0.0026)Gln+(0.0054)Thr+(-0.0707)Cit+(-0.0098)Arg+(-0.1574)Trp;0.811,0.841,0.786,0.779,0.791,0.812,0.775,0.789,(7.4779)+(0.0028)Gly+(-0.0941)His+(0.0073)Pro+(0.0036)Tyr+(0.0091)Lys+(-0.1088)Trp;0.811,0.847,0.746,0.705,0.777,0.844,0.719,0.761,(3.5699)+(0.0445)Ser+(-0.1250)His+(-0.0595)Cit+(-0.1685)Met+(0.0392)Orn+(0.0239)Leu;0.811,0.843,0.795,0.766,0.793,0.837,0.848,0.811,(4.7734)+(-0.1072)His+(-0.0058)Ala+(-0.0393)Cit+(-0.1856)Met+(0.0576)Ile+(0.0943)Phe;0.811,0.841,0.803,0.795,0.824,0.782,0.797,0.800,(4.6243)+(-0.0895)Cit+(-0.0027)Arg+(0.0052)Pro+(0.0011)Leu+(0.0852)Phe+(-0.1755)Trp;0.811,0.836,0.778,0.767,0.755,0.829,0.820,0.793,(2.3982)+(0.0077)Gln+(-0.1652)His+(0.0088)Thr+(-0.0046)Ala+(-0.0027)Val+(0.0821)Phe;0.811,0.846,0.765,0.750,0.737,0.847,0.803,0.784,(0.2564)+(0.0521)Ser+(-0.0450)Asn+(-0.0059)Gl

y+(-0.2613)Met+(0.1650)Ile+(-0.0731)Leu;0.811,0.844,0.782,0.774,0.783,0.857,0.746,0.790,(2.4351)+(0.0364)Ser+(0.0092)Gln+(-0.1466)His+(-0.0169)Arg+(0.0091)Val+(-0.1263)Met;0.811,0.841,0.754,0.722,0.727,0.833,0.838,0.780,(4.2220)+(-0.1453)His+(0.0133)Thr+(-0.0078)Ala+(0.0011)Pro+(0.0425)Ile+(0.0544)Phe;0.811,0.838,0.771,0.751,0.745,0.834,0.829,0.790,(3.4364)+(0.0079)Gln+(-0.1373)His+(-0.0042)Pro+(-0.0051)Lys+(0.1044)Ile+(-0.0374)Leu;0.811,0.836,0.736,0.706,0.729,0.846,0.752,0.758,(3.5507)+(0.0359)Ser+(-0.1380)His+(-0.0065)Ala+(0.0098)Pro+(0.0030)Val+(0.0210)Orn;0.811,0.848,0.801,0.817,0.799,0.760,0.795,0.793,(4.4251)+(-0.0639)Asn+(0.0014)Gly+(0.0052)Pro+(-0.0310)Tyr+(0.0909)Phe+(-0.1485)Trp;0.811,0.843,0.771,0.744,0.727,0.868,0.863,0.801,(4.4937)+(-0.0110)Ala+(-0.1078)Cit+(-0.0481)Val+(0.0559)Orn+(-0.0159)Lys+(0.1759)Ile;0.811,0.850,0.812,0.819,0.796,0.796,0.837,0.812,(3.7348)+(0.0004)Gly+(-0.0082)Ala+(0.0089)Pro+(-0.0031)Lys+(0.0824)Phe+(-0.1592)Trp;0.811,0.846,0.812,0.838,0.799,0.762,0.810,0.802,(2.6944)+(-0.0016)Gly+(0.0035)Gln+(-0.0367)Tyr+(-0.0063)Val+(0.0973)Phe+(-0.1577)Trp;0.811,0.843,0.787,0.781,0.780,0.865,0.763,0.797,(2.6685)+(0.0340)Ser+(0.0078)Gln+(-0.1364)His+(-0.0001)Ala+(0.0233)Tyr+(-0.1649)Met;0.811,0.839,0.730,0.701,0.719,0.805,0.775,0.750,(2.7025)+(0.0065)Gly+(-0.1197)His+(-0.0608)Cit+(0.1154)Ile+(-0.0601)Leu+(0.0848)Phe;0.811,0.838,0.789,0.780,0.821,0.816,0.726,0.786,(6.5304)+(0.0090)Thr+(-0.1136)Cit+(-0.0155)Tyr+(0.0488)Orn+(0.0108)Leu+(-0.1688)Trp;0.811,0.837,0.777,0.769,0.712,0.865,0.873,0.805,(5.0958)+(-0.1261)Asn+(0.0021)Gly+(-0.0074)Ala+(-0.0567)Val+(0.0304)Orn+(0.1771)Ile;0.811,0.848,0.822,0.829,0.834,0.776,0.813,0.813,(4.8681)+(-0.0587)Asn+(-0.0106)Arg+(0.0044)Pro+(-0.0039)Leu+(0.0820)Phe+(-0.1544)Trp;0.811,0.844,0.793,0.793,0.776,0.814,0.810,0.798,(5.6897)+(-0.0232)Arg+(-0.0019)Pro+(0.0066)Lys+(0.1572)Ile+(-0.0748)Leu+(-0.1408)Trp;0.811,0.843,0.759,0.740,0.755,0.859,0.745

,0.775,(4.0024)+(0.0449)Ser+(-0.1119)His+(-0.0044)Ala+(0.0154)Pro+(0.0133)Tyr+(-0.1628)Met;0.811,0.843,0.803,0.796,0.811,0.832,0.782,0.805,(8.4762)+(-0.0094)Asn+(-0.0834)His+(-0.0013)Ala+(-0.0051)Arg+(0.0402)Orn+(-0.0958)Trp;0.811,0.842,0.786,0.793,0.776,0.836,0.751,0.789,(3.9333)+(0.0326)Ser+(-0.0064)Ala+(-0.0189)Arg+(0.0122)Pro+(0.0011)Val+(-0.1420)Trp;0.811,0.840,0.789,0.777,0.765,0.835,0.837,0.804,(2.4853)+(0.0091)Gln+(-0.1597)His+(-0.0053)Ala+(0.0044)Pro+(-0.0053)Lys+(0.0787)Phe;0.811,0.837,0.776,0.760,0.753,0.831,0.826,0.792,(2.3157)+(0.0079)Gln+(-0.1690)His+(0.0085)Thr+(-0.0052)Ala+(0.0043)Leu+(0.0729)Phe;0.811,0.841,0.801,0.805,0.819,0.792,0.762,0.794,(4.1001)+(0.0037)Gly+(-0.0906)Cit+(-0.0025)Arg+(-0.0018)Val+(0.0970)Phe+(-0.1704)Trp;0.811,0.852,0.806,0.814,0.825,0.775,0.764,0.795,(2.8444)+(0.0034)Gln+(0.0147)Thr+(-0.0274)Arg+(-0.0056)Lys+(0.0811)Phe+(-0.1813)Trp;0.811,0.849,0.760,0.737,0.758,0.849,0.761,0.776,(-0.0800)+(0.0420)Ser+(0.0132)Thr+(-0.0092)Ala+(-0.0888)Cit+(-0.3117)Met+(0.0886)Ile;0.811,0.849,0.791,0.812,0.780,0.753,0.786,0.783,(3.5727)+(0.0065)Pro+(-0.0373)Tyr+(-0.0075)Val+(-0.0007)Lys+(0.0995)Phe+(-0.1522)Trp;0.811,0.843,0.744,0.750,0.651,0.835,0.859,0.774,(-0.4999)+(0.0209)Ser+(-0.0105)Ala+(-0.0451)Tyr+(-0.0514)Val+(0.1618)Ile+(0.0628)Phe;0.811,0.843,0.768,0.742,0.758,0.870,0.787,0.789,(1.5204)+(0.0407)Ser+(-0.1317)Asn+(-0.0125)Ala+(-0.1172)Cit+(0.0392)Orn+(0.0558)Ile;0.811,0.843,0.781,0.764,0.786,0.837,0.776,0.791,(3.8179)+(0.0095)Gln+(-0.1561)His+(0.0269)Thr+(0.0020)Tyr+(-0.2326)Met+(0.0260)Leu;0.811,0.840,0.738,0.718,0.722,0.803,0.780,0.756,(3.3021)+(0.0054)Gly+(-0.1228)His+(-0.0200)Arg+(0.1130)Ile+(-0.0604)Leu+(0.0828)Phe;0.811,0.838,0.786,0.787,0.758,0.820,0.818,0.796,(2.3220)+(0.0090)Gln+(-0.1565)His+(-0.0027)Ala+(-0.0361)Tyr+(-0.0011)Val+(0.0993)Phe;0.811,0.844,0.753,0.744,0.755,0.795,0.742,0.759,(2.4095)+(0.0341)Ser+(0.0015)Thr+(-0.0244)Arg+(-0.0149)Tyr+(0.0602)Ile+(

-0.1645)Trp;0.811,0.844,0.828,0.841,0.822,0.809,0.823,0.824,(2.8551)+(0.0042)Gln+(-0.0063)Ala+(-0.0223)Arg+(0.0131)Orn+(0.0819)Phe+(-0.1638)Trp;0.811,0.843,0.794,0.795,0.813,0.841,0.719,0.792,(5.0239)+(0.0295)Ser+(0.0059)Thr+(-0.0740)Cit+(0.0034)Tyr+(-0.0037)Lys+(-0.1535)Trp;0.811,0.843,0.782,0.788,0.771,0.745,0.815,0.780,(2.6109)+(-0.0015)Gly+(0.0026)Gln+(-0.0419)Tyr+(0.0418)Ile+(0.0656)Phe+(-0.1766)Trp;0.811,0.842,0.762,0.763,0.757,0.741,0.783,0.761,(2.9451)+(0.0094)Thr+(-0.0009)Pro+(-0.0461)Tyr+(0.0423)Ile+(0.0690)Phe+(-0.1786)Trp;0.811,0.840,0.767,0.750,0.701,0.845,0.895,0.798,(2.2044)+(-0.0141)Ala+(-0.0803)Cit+(0.0067)Pro+(-0.0526)Val+(0.1735)Ile+(0.0474)Phe;0.811,0.843,0.786,0.774,0.793,0.843,0.760,0.793,(4.0708)+(0.0109)Gln+(-0.1553)His+(0.0312)Thr+(-0.0196)Arg+(-0.2199)Met+(0.0253)Leu;0.811,0.843,0.809,0.810,0.816,0.843,0.768,0.809,(7.2013)+(0.0014)Gly+(0.0133)Thr+(-0.0070)Ala+(-0.0795)Cit+(0.0131)Pro+(-0.1496)Trp;0.811,0.836,0.757,0.743,0.736,0.850,0.771,0.775,(2.7973)+(0.0323)Ser+(0.0055)Gln+(-0.1421)His+(-0.0033)Thr+(-0.0053)Ala+(0.0107)Pro;0.811,0.836,0.790,0.775,0.794,0.826,0.792,0.797,(7.9666)+(-0.0022)Asn+(0.0041)Gly+(-0.0974)His+(-0.0021)Ala+(0.0278)Leu+(-0.1086)Trp;0.811,0.840,0.792,0.781,0.770,0.835,0.835,0.805,(2.4419)+(0.0093)Gln+(-0.1608)His+(-0.0040)Ala+(-0.0012)Val+(-0.0047)Lys+(0.0835)Phe;0.811,0.840,0.750,0.719,0.719,0.817,0.850,0.776,(4.0464)+(-0.1058)His+(-0.0379)Cit+(-0.0029)Pro+(-0.0369)Val+(0.1229)Ile+(0.0687)Phe;0.811,0.849,0.810,0.802,0.795,0.814,0.860,0.818,(4.1168)+(-0.0086)Ala+(-0.0124)Arg+(-0.0050)Lys+(0.0598)Ile+(0.0665)Phe+(-0.1635)Trp;0.811,0.838,0.784,0.774,0.758,0.831,0.834,0.799,(2.4052)+(0.0085)Gln+(-0.1596)His+(-0.0054)Ala+(0.0048)Pro+(-0.0030)Val+(0.0794)Phe;0.811,0.838,0.765,0.746,0.776,0.814,0.758,0.773,(3.3902)+(0.0075)Asn+(0.0063)Gly+(-0.1346)His+(-0.2044)Met+(0.0194)Orn+(0.1206)Phe;0.811,0.836,0.772,0.772,0.749,0.802,0.796,0.780,(2.1286)+(0.0010)Gly+

(0.0086)Gln+(-0.1599)His+(-0.0404)Tyr+(-0.0021)Val+(0.1001)Phe;0.811,0.843,0.807,0.798,0.792,0.823,0.849,0.816,(6.0297)+(-0.0070)Ala+(-0.0025)Arg+(0.0077)Pro+(-0.1367)Met+(0.0691)Ile+(-0.1382)Trp;0.811,0.843,0.800,0.803,0.816,0.838,0.730,0.797,(4.2835)+(0.0269)Ser+(0.0021)Gln+(0.0029)Thr+(-0.0769)Cit+(0.0002)Tyr+(-0.1580)Trp;0.811,0.842,0.804,0.788,0.812,0.819,0.822,0.810,(6.9293)+(-0.0261)Asn+(-0.0757)Cit+(-0.0008)Tyr+(-0.0035)Lys+(0.0640)Ile+(-0.1603)Trp;0.811,0.841,0.747,0.727,0.746,0.784,0.777,0.758,(1.6066)+(0.0351)Ser+(-0.0011)Gln+(-0.0086)Thr+(-0.0011)Pro+(0.0571)Ile+(-0.1696)Trp;0.811,0.846,0.838,0.844,0.843,0.808,0.833,0.832,(4.3532)+(-0.0172)Asn+(-0.0025)Ala+(0.0064)Tyr+(-0.1752)Met+(0.1104)Phe+(-0.1398)Trp;0.811,0.844,0.788,0.773,0.793,0.841,0.781,0.797,(4.0376)+(-0.0283)Asn+(0.0101)Gln+(-0.1522)His+(0.0274)Thr+(-0.2090)Met+(0.0249)Leu;0.811,0.842,0.823,0.821,0.796,0.840,0.870,0.832,(4.5062)+(-0.0654)Asn+(0.0056)Gln+(-0.0071)Ala+(-0.0039)Tyr+(0.0631)Ile+(-0.1520)Trp;0.811,0.838,0.810,0.805,0.831,0.828,0.768,0.808,(5.5374)+(0.0046)Gln+(0.0138)Thr+(-0.0882)Cit+(-0.0106)Lys+(0.0198)Leu+(-0.1741)Trp;0.811,0.834,0.757,0.728,0.750,0.851,0.780,0.777,(2.3205)+(0.0338)Ser+(0.0064)Gln+(-0.1520)His+(-0.0050)Ala+(-0.0429)Cit+(0.0249)Leu;0.811,0.845,0.758,0.752,0.786,0.810,0.680,0.757,(-1.8397)+(0.0545)Ser+(-0.0954)Asn+(
-0.0977)Cit+(-0.2948)Met+(0.0311)Orn+(0.1104)Phe;0.811,0.839,0.791,0.772,0.801,0.804,0.811,0.797,(7.9869)+(-0.0116)Asn+(-0.0953)His+(0.0054)Pro+(0.0066)Lys+(0.0176)Leu+(-0.1162)Trp;0.811,0.849,0.812,0.823,0.790,0.794,0.838,0.812,(2.7252)+(0.0025)Gln+(-0.0087)Ala+(0.0079)Pro+(0.0033)Orn+(0.0751)Phe+(-0.1670)Trp;0.811,0.847,0.814,0.792,0.831,0.824,0.830,0.819,(6.4888)+(-0.0674)Cit+(0.0197)Tyr+(-0.1411)Met+(0.0003)Lys+(0.0683)Ile+(-0.1571)Trp;0.811,0.840,0.813,0.803,0.842,0.837,0.759,0.810,(7.2207)+(-0.1030)Cit+(0.0103)Tyr+(-0.0832)Met+(0.0547)Orn+(

0.0002)Lys+(-0.1456)Trp;0.811,0.848,0.812,0.817,0.821,0.779,0.804,0.805,(3.6673)+(0.0073)Pro+(-0.0031)Tyr+(-0.2234)Met+(0.0083)Orn+(0.1045)Phe+(-0.1428)Trp;0.811,0.845,0.797,0.790,0.790,0.869,0.775,0.806,(2.9326)+(0.0363)Ser+(-0.0567)Asn+(0.0088)Gln+(-0.1295)His+(0.0195)Tyr+(-0.1229)Met;0.811,0.843,0.803,0.803,0.767,0.836,0.855,0.815,(1.4525)+(-0.0075)Ala+(-0.0145)Arg+(-0.2542)Met+(0.1871)Ile+(-0.0968)Leu+(0.1068)Phe;0.811,0.840,0.787,0.776,0.743,0.852,0.858,0.807,(5.3582)+(-0.0318)Asn+(0.0030)Pro+(-0.0515)Val+(-0.2420)Met+(0.1939)Ile+(-0.0118)Leu;0.811,0.835,0.790,0.779,0.824,0.817,0.730,0.788,(6.3129)+(0.0024)Gly+(-0.1153)Cit+(-0.0035)Arg+(0.0516)Orn+(0.0106)Leu+(-0.1683)Trp;0.811,0.835,0.773,0.762,0.767,0.854,0.755,0.785,(2.6650)+(0.0329)Ser+(0.0082)Gln+(-0.1552)His+(-0.0029)Ala+(-0.0218)Arg+(0.0077)Val;0.811,0.847,0.797,0.812,0.797,0.789,0.762,0.790,(4.0308)+(0.0233)Thr+(-0.0057)Ala+(-0.0255)Arg+(-0.0324)Tyr+(0.1060)Phe+(-0.1640)Trp;0.811,0.844,0.803,0.799,0.808,0.815,0.794,0.804,(8.2079)+(-0.0804)His+(-0.0057)Arg+(0.0102)Pro+(-0.0930)Met+(0.0159)Lys+(-0.1070)Trp;0.811,0.843,0.779,0.760,0.785,0.835,0.774,0.788,(3.8555)+(0.0090)Gln+(-0.1561)His+(0.0257)Thr+(-0.2257)Met+(0.0088)Orn+(0.0245)Leu;0.811,0.842,0.800,0.808,0.811,0.789,0.760,0.792,(4.2034)+(0.0034)Gly+(-0.0886)Cit+(-0.0228)Tyr+(-0.0013)Val+(0.1076)Phe+(-0.1630)Trp;0.811,0.837,0.791,0.775,0.775,0.842,0.831,0.806,(3.7457)+(-0.0610)Asn+(0.0119)Gln+(-0.1337)His+(-0.0486)Cit+(-0.0231)Tyr+(0.0534)Ile;0.811,0.835,0.781,0.771,0.716,0.867,0.879,0.808,(5.2607)+(-0.1156)Asn+(-0.0075)Ala+(-0.0520)Val+(0.0300)Orn+(0.1853)Ile+(-0.0140)Leu;0.811,0.851,0.802,0.802,0.818,0.770,0.791,0.795,(3.7094)+(-0.0017)Gly+(0.0110)Thr+(0.0052)Orn+(-0.0096)Lys+(0.0713)Phe+(-0.1728)Trp;0.811,0.848,0.749,0.727,0.742,0.867,0.734,0.767,(1.7358)+(0.0374)Ser+(-0.1435)Asn+(-0.1008)Cit+(0.0337)Orn+(0.1441)Ile+(-0.0780)Leu;0.811,0.845,0.816,0.829,0.819,0.796,0.792,0.809,(2.821

8)+(0.0058)Gln+(-0.0906)Cit+(-0.0054)Arg+(-0.0311)Tyr+(0.1047)Phe+(-0.1694)Trp;0.811,0.844,0.787,0.789,0.796,0.824,0.733,0.786,(4.5296)+(0.0386)Ser+(-0.1052)Asn+(0.0099)Thr+(-0.0133)Arg+(0.0140)Leu+(-0.1459)Trp;0.811,0.837,0.772,0.748,0.761,0.831,0.814,0.789,(3.3424)+(-0.0697)Asn+(0.0024)Gly+(0.0098)Gln+(-0.1511)His+(0.0090)Orn+(0.0425)Ile;0.811,0.836,0.761,0.740,0.747,0.849,0.784,0.780,(4.7140)+(0.0490)Ser+(-0.0614)Asn+(-0.0041)Gly+(-0.1124)His+(-0.0054)Ala+(0.0129)Pro;0.811,0.839,0.795,0.790,0.801,0.822,0.777,0.798,(8.1449)+(-0.0188)Asn+(0.0035)Gly+(-0.0836)His+(0.0076)Pro+(0.0116)Tyr+(-0.1020)Trp;0.811,0.843,0.782,0.782,0.753,0.808,0.824,0.792,(-1.8509)+(0.0016)Gly+(0.0045)Gln+(-0.3737)Met+(0.1778)Ile+(-0.0975)Leu+(0.1105)Phe;0.811,0.839,0.751,0.745,0.747,0.773,0.756,0.755,(5.3805)+(-0.0628)Asn+(-0.1376)His+(0.0304)Thr+(-0.0578)Tyr+(-0.0037)Lys+(0.1139)Phe;0.811,0.848,0.807,0.813,0.791,0.790,0.833,0.807,(3.5811)+(-0.0086)Ala+(0.0082)Pro+(0.0062)Orn+(0.0014)Leu+(0.0745)Phe+(-0.1625)Trp;0.811,0.843,0.821,0.816,0.820,0.834,0.824,0.824,(5.2987)+(0.0055)Gln+(-0.0082)Ala+(-0.0866)Cit+(0.0123)Pro+(0.0180)Leu+(-0.1634)Trp;0.811,0.840,0.779,0.785,0.779,0.822,0.732,0.780,(-1.3602)+(0.0544)Ser+(-0.0876)Asn+(-0.0040)Ala+(-0.0773)Cit+(-0.2580)Met+(0.1223)Phe;0.811,0.839,0.793,0.790,0.745,0.862,0.851,0.812,(3.2637)+(0.0050)Gln+(-0.0114)Arg+(-0.0471)Val+(-0.2835)Met+(0.2038)Ile+(-0.0226)Leu;0.811,0.850,0.813,0.818,0.819,0.848,0.761,0.812,(2.7305)+(0.0356)Ser+(0.0028)Gln+(0.0299)Tyr+(0.0035)Val+(-0.2053)Met+(-0.1497)Trp;0.811,0.844,0.796,0.789,0.796,0.778,0.825,0.797,(3.9899)+(-0.0706)Asn+(0.0021)Gly+(-0.0011)Pro+(0.0411)Ile+(0.0570)Phe+(-0.1684)Trp;0.811,0.843,0.796,0.800,0.805,0.779,0.779,0.791,(4.7069)+(-0.0850)Cit+(0.0080)Pro+(-0.0311)Tyr+(-0.0036)Val+(0.1055)Phe+(-0.1599)Trp;0.811,0.840,0.761,0.745,0.720,0.881,0.805,0.787,(0.7265)+(0.0265)Ser+(-0.0143)Ala+(-0.1234)Cit+(0.0326)Orn+(0.1805)Ile+(-0.0845)Leu;0.

811,0.839,0.805,0.804,0.828,0.831,0.741,0.801,(5.6733)+(0.0003)Gly+(0.0037)Gln+(-0.1129)Cit+(-0.0106)Tyr+(0.0513)Orn+(-0.1599)Trp;0.811,0.835,0.750,0.727,0.749,0.842,0.752,0.767,(2.3711)+(0.0341)Ser+(0.0072)Gln+(-0.1568)His+(-0.0214)Arg+(-0.0138)Val+(0.0391)Leu;0.811,0.844,0.766,0.742,0.755,0.846,0.793,0.784,(-0.2478)+(0.0489)Ser+(-0.0019)Gly+(-0.0089)Ala+(-0.0803)Cit+(-0.2687)Met+(0.0874)Ile;0.811,0.842,0.779,0.775,0.755,0.821,0.810,0.790,(2.3645)+(0.0081)Gln+(-0.1569)His+(-0.0032)Ala+(-0.0392)Tyr+(0.0181)Orn+(0.0927)Phe;0.811,0.849,0.815,0.820,0.825,0.777,0.810,0.808,(3.7578)+(0.0079)Pro+(-0.0016)Tyr+(-0.2219)Met+(-0.0008)Leu+(0.1092)Phe+(-0.1433)Trp;0.811,0.842,0.816,0.807,0.796,0.852,0.855,0.827,(2.5632)+(-0.0776)Asn+(0.0127)Gln+(-0.1443)His+(-0.0044)Ala+(-0.0486)Cit+(0.0931)Phe;0.811,0.842,0.747,0.734,0.740,0.784,0.768,0.757,(2.0364)+(0.0334)Ser+(-0.0010)Gln+(-0.0058)Thr+(-0.0192)Tyr+(0.0579)Ile+(-0.1632)Trp;0.811,0.841,0.766,0.766,0.740,0.804,0.794,0.776,(2.4561)+(0.0072)Gln+(-0.1619)His+(0.0145)Thr+(-0.0030)Ala+(-0.0465)Tyr+(0.1020)Phe;0.811,0.839,0.740,0.713,0.735,0.847,0.745,0.760,(3.9027)+(0.0359)Ser+(-0.1306)His+(-0.0059)Ala+(0.0103)Pro+(0.0252)Orn+(-0.0042)Lys;0.811,0.838,0.753,0.720,0.753,0.838,0.780,0.773,(3.6749)+(0.0516)Ser+(-0.0037)Gly+(-0.1192)His+(-0.0230)Val+(-0.1697)Met+(0.0645)Leu;0.811,0.837,0.777,0.766,0.737,0.841,0.845,0.797,(5.9273)+(-0.0959)His+(-0.0065)Ala+(-0.0202)Tyr+(0.0040)Lys+(0.1312)Ile+(-0.0508)Leu;0.811,0.835,0.763,0.749,0.697,0.852,0.875,0.793,(3.3817)+(0.0021)Gly+(-0.0135)Ala+(-0.0806)Cit+(0.0079)Pro+(-0.0491)Val+(0.1747)Ile;0.811,0.848,0.834,0.844,0.822,0.807,0.850,0.831,(2.7494)+(-0.0007)Gly+(0.0038)Gln+(-0.0062)Ala+(-0.0049)Lys+(0.0839)Phe+(-0.1636)Trp;0.811,0.844,0.804,0.786,0.830,0.842,0.769,0.807,(8.4497)+(-0.0671)His+(-0.0783)Cit+(0.0122)Tyr+(-0.0375)Met+(0.0570)Orn+(-0.1119)Trp;0.811,0.843,0.791,0.792,0.760,0.810,0.839,0.800,(-1.8854)+(0.0056)Gln+(-0.374

4)Met+(-0.0126)Orn+(0.1828)Ile+(-0.0983)Leu+(0.1144)Phe;0.811,0.843,0.797,0.777,0.788,0.847,0.831,0.811,(3.0627)+(0.0123)Gln+(-0.1409)His+(-0.0117)Arg+(0.0043)Tyr+(-0.1877)Met+(0.0638)Ile;0.811,0.835,0.712,0.667,0.721,0.821,0.735,0.736,(2.5597)+(0.0433)Ser+(-0.1431)His+(0.0027)Thr+(-0.0290)Cit+(-0.0148)Arg+(0.0579)Ile;0.811,0.847,0.830,0.840,0.822,0.812,0.836,0.827,(4.4536)+(-0.0675)Asn+(0.0021)Gly+(-0.0050)Ala+(0.0028)Lys+(0.0881)Phe+(-0.1496)Trp;0.811,0.840,0.803,0.794,0.781,0.830,0.853,0.814,(5.7161)+(-0.0434)Asn+(0.0017)Gly+(-0.0085)Ala+(0.0057)Pro+(0.0619)Ile+(-0.1472)Trp;0.811,0.837,0.749,0.722,0.757,0.842,0.735,0.764,(2.2111)+(0.0333)Ser+(0.0072)Gln+(-0.1640)His+(-0.0240)Arg+(0.0150)Orn+(0.0154)Leu;0.811,0.848,0.820,0.845,0.814,0.780,0.797,0.809,(2.5916)+(0.0048)Gln+(-0.0193)Arg+(-0.0303)Tyr+(-0.0061)Val+(0.1031)Phe+(-0.1575)Trp;0.811,0.843,0.790,0.775,0.802,0.820,0.783,0.795,(7.6272)+(0.0046)Gly+(-0.0985)His+(-0.0865)Met+(0.0107)Lys+(0.0248)Leu+(-0.1099)Trp;0.811,0.848,0.752,0.739,0.736,0.818,0.771,0.766,(-4.2405)+(0.0538)Ser+(-0.0073)Ala+(-0.0181)Arg+(-0.3725)Met+(0.0674)Ile+(0.0911)Phe;0.811,0.842,0.787,0.773,0.770,0.837,0.827,0.802,(2.4882)+(0.0086)Gln+(-0.1605)His+(-0.0045)Ala+(0.0169)Orn+(-0.0066)Lys+(0.0771)Phe;0.811,0.841,0.791,0.777,0.770,0.838,0.841,0.807,(2.4252)+(0.0095)Gln+(-0.1631)His+(-0.0045)Ala+(-0.0064)Lys+(0.0068)Leu+(0.0756)Phe;0.811,0.849,0.770,0.762,0.725,0.868,0.816,0.793,(0.1262)+(0.0402)Ser+(-0.0079)Ala+(-0.2518)Met+(-0.0031)Lys+(0.1846)Ile+(-0.0733)Leu;0.811,0.849,0.820,0.828,0.827,0.788,0.807,0.812,(4.4832)+(-0.0767)Asn+(0.0014)Gly+(0.0125)Orn+(-0.0043)Leu+(0.0762)Phe+(-0.1508)Trp;0.811,0.844,0.735,0.698,0.751,0.828,0.737,0.753,(2.9960)+(0.0496)Ser+(-0.1308)His+(0.0096)Pro+(-0.1996)Met+(-0.0002)Lys+(0.0263)Leu;0.811,0.844,0.824,0.831,0.833,0.785,0.812,0.815,(4.0422)+(-0.0266)Asn+(-0.1956)Met+(0.0109)Orn+(0.0052)Lys+(0.1009)Phe+(-0.1435)Trp;0.811,0.841,0.800,0.782,0.

777,0.865,0.852,0.819,(6.7019)+(-0.0676)His+(-0.0066)Ala+(-0.0472)Cit+(-0.1105)Met+(0.1515)Ile+(-0.0554)Leu;0.811,0.844,0.782,0.765,0.786,0.837,0.778,0.791,(3.9204)+(0.0095)Gln+(-0.1552)His+(0.0275)Thr+(-0.2256)Met+(-0.0023)Lys+(0.0270)Leu;0.811,0.843,0.779,0.767,0.741,0.851,0.839,0.800,(4.3642)+(-0.0120)Arg+(-0.0589)Val+(-0.2890)Met+(0.0268)Orn+(0.0064)Lys+(0.1898)Ile;0.811,0.843,0.789,0.786,0.777,0.812,0.804,0.795,(5.7380)+(-0.0227)Arg+(-0.0030)Pro+(0.0167)Orn+(0.1531)Ile+(-0.0716)Leu+(-0.1362)Trp;0.811,0.838,0.800,0.797,0.797,0.821,0.801,0.804,(8.3086)+(-0.0840)His+(-0.0039)Ala+(-0.0088)Arg+(0.0115)Pro+(0.0124)Lys+(-0.1072)Trp;0.811,0.838,0.790,0.781,0.819,0.812,0.740,0.788,(6.6758)+(-0.1133)Cit+(0.0054)Pro+(-0.0144)Tyr+(0.0512)Orn+(0.0083)Leu+(-0.1639)Trp;0.811,0.838,0.783,0.772,0.745,0.846,0.849,0.803,(6.3306)+(-0.0122)Asn+(-0.0896)His+(-0.0063)Ala+(-0.0170)Tyr+(0.1314)Ile+(-0.0499)Leu;0.811,0.844,0.808,0.797,0.817,0.840,0.798,0.813,(8.1903)+(-0.0837)His+(-0.0014)Ala+(0.0172)Tyr+(-0.0503)Met+(0.0364)Orn+(-0.0994)Trp;0.811,0.838,0.776,0.762,0.739,0.849,0.834,0.796,(4.6253)+(-0.0110)Arg+(-0.0517)Val+(-0.2640)Met+(0.0294)Orn+(0.2020)Ile+(-0.0187)Leu;0.811,0.851,0.815,0.821,0.818,0.771,0.822,0.808,(2.6780)+(-0.0010)Gly+(0.0031)Gln+(0.0019)Pro+(-0.0076)Lys+(0.0720)Phe+(-0.1727)Trp;0.811,0.847,0.797,0.772,0.814,0.831,0.807,0.806,(7.9679)+(-0.0954)His+(0.0134)Tyr+(-0.0743)Met+(0.0307)Orn+(0.0213)Leu+(-0.1111)Trp;0.811,0.843,0.809,0.807,0.818,0.836,0.777,0.810,(7.1793)+(0.0140)Thr+(-0.0075)Ala+(-0.0815)Cit+(0.0121)Pro+(0.0045)Val+(-0.1561)Trp;0.811,0.842,0.800,0.791,0.790,0.828,0.825,0.809,(2.2666)+(-0.0646)Asn+(0.0132)Gln+(-0.1614)His+(-0.0186)Arg+(0.0008)Lys+(0.0804)Phe;0.811,0.835,0.794,0.788,0.799,0.822,0.782,0.798,(7.7975)+(0.0034)Gly+(-0.0984)His+(-0.0019)Ala+(0.0081)Val+(0.0092)Lys+(-0.1093)Trp;0.811,0.837,0.778,0.765,0.753,0.830,0.824,0.793,(2.0566)+(0.0021)Gly+(0.0084)Gln+(-0.1665)His+(-0.0048

)Ala+(0.0044)Leu+(0.0760)Phe;

0.811,0.843,0.765,0.740,0.748,0.814,0.833,0.784,(4.2750)+(-0.0365)Asn+(-0.1013)His+(-0.0483)Cit+(0.1173)Ile+(-0.0641)Leu+(0.0828)Phe;0.811,0.845,0.792,0.784,0.778,0.818,0.821,0.800,(5.4015)+(0.0149)Thr+(-0.0097)Ala+(-0.0206)Arg+(0.0051)Pro+(0.0642)Ile+(-0.1618)Trp;0.811,0.839,0.782,0.782,0.754,0.820,0.810,0.792,(2.1955)+(0.0013)Gly+(0.0087)Gln+(-0.1582)His+(-0.0029)Ala+(-0.0355)Tyr+(0.0985)Phe;0.811,0.838,0.744,0.737,0.741,0.765,0.758,0.750,(5.1792)+(-0.0657)Asn+(-0.1381)His+(0.0283)Thr+(0.0027)Pro+(-0.0607)Tyr+(0.1096)Phe;0.811,0.846,0.826,0.833,0.835,0.792,0.812,0.818,(4.1889)+(-0.0230)Asn+(-0.0003)Tyr+(-0.1849)Met+(0.0135)Orn+(0.1021)Phe+(-0.1394)Trp;0.811,0.845,0.753,0.744,0.755,0.797,0.742,0.759,(2.3624)+(0.0348)Ser+(-0.0240)Arg+(0.0009)Pro+(-0.0149)Tyr+(0.0594)Ile+(-0.1639)Trp;0.811,0.843,0.739,0.704,0.755,0.831,0.729,0.755,(3.1808)+(0.0507)Ser+(-0.1288)His+(-0.0076)Arg+(0.0100)Pro+(-0.1896)Met+(0.0255)Leu;0.811,0.840,0.798,0.808,0.809,0.804,0.743,0.791,(6.4875)+(-0.0019)Gly+(0.0237)Thr+(0.0084)Pro+(-0.2085)Met+(0.0043)Lys+(-0.1456)Trp;0.811,0.839,0.783,0.765,0.747,0.848,0.859,0.805,(6.0618)+(-0.0162)Asn+(-0.0931)His+(-0.0077)Ala+(0.0031)Pro+(0.1245)Ile+(-0.0491)Leu;0.811,0.838,0.806,0.804,0.829,0.831,0.744,0.802,(5.6656)+(0.0037)Gln+(-0.1130)Cit+(-0.0112)Tyr+(0.0007)Val+(0.0509)Orn+(-0.1611)Trp;0.811,0.836,0.766,0.735,0.761,0.836,0.809,0.785,(3.5693)+(0.0093)Gln+(-0.1487)His+(0.0095)Thr+(-0.0519)Cit+(-0.0124)Lys+(0.0551)Ile;0.811,0.835,0.778,0.771,0.710,0.867,0.871,0.805,(5.2838)+(-0.1410)Asn+(0.0018)Gly+(0.0161)Thr+(-0.0075)Ala+(-0.0566)Val+(0.1827)Ile;0.811,0.832,0.746,0.718,0.730,0.848,0.780,0.769,(3.7965)+(0.0448)Ser+(-0.0044)Gly+(-0.1337)His+(-0.0063)Ala+(0.0107)Pro+(0.0047)Val;0.811,0.844,0.814,0.815,0.811,0.833,0.803,0.815,(5.1290)+(0.0478)Ser+(-0.0971)Asn+(-0.0071)Gly+(0.0028)Tyr+(0.0020)Lys+(-0.1369)Trp;0.811,0.840,

0.809,0.805,0.832,0.824,0.758,0.805,(7.9203)+(-0.0663)Asn+(0.0226)Thr+(-0.0752)Cit+(-0.0034)Lys+(0.0165)Leu+(-0.1603)Trp;0.811,0.839,0.791,0.802,0.803,0.807,0.727,0.785,(6.0093)+(0.0206)Thr+(0.0077)Pro+(-0.2069)Met+(0.0115)Orn+(0.0031)Lys+(-0.1437)Trp;0.811,0.836,0.759,0.748,0.739,0.851,0.766,0.776,(3.0086)+(0.0315)Ser+(0.0055)Gln+(-0.1411)His+(-0.0051)Ala+(0.0103)Pro+(-0.0034)Lys;0.811,0.845,0.760,0.756,0.756,0.809,0.744,0.766,(-2.3690)+(0.0490)Ser+(-0.0596)Cit+(-0.0384)Val+(-0.3964)Met+(0.0596)Leu+(0.1315)Phe;0.811,0.841,0.792,0.779,0.806,0.819,0.777,0.795,(7.9924)+(-0.0968)His+(-0.0099)Arg+(0.0027)Val+(0.0335)Orn+(0.0085)Lys+(-0.1085)Trp;0.811,0.834,0.754,0.733,0.735,0.807,0.810,0.771,(2.4459)+(0.0069)Gln+(-0.1695)His+(0.0091)Thr+(-0.0169)Val+(0.0259)Leu+(0.0695)Phe;0.811,0.843,0.813,0.814,0.820,0.837,0.778,0.812,(4.4213)+(0.0358)Ser+(-0.0060)Gly+(0.0030)Gln+(-0.0679)Cit+(-0.0039)Lys+(-0.1508)Trp;0.811,0.836,0.802,0.794,0.832,0.828,0.739,0.798,(7.2365)+(-0.1132)Cit+(-0.0045)Tyr+(0.0014)Val+(0.0581)Orn+(-0.0047)Lys+(-0.1518)Trp;0.811,0.845,0.824,0.832,0.814,0.799,0.840,0.821,(2.7477)+(-0.0009)Gly+(0.0030)Gln+(-0.0068)Ala+(0.0070)Orn+(0.0755)Phe+(-0.1659)Trp;0.811,0.845,0.815,0.824,0.826,0.780,0.793,0.806,(3.2274)+(0.0018)Gly+(-0.2230)Met+(0.0085)Orn+(0.0043)Lys+(0.1069)Phe+(-0.1454)Trp;0.811,0.838,0.778,0.769,0.770,0.850,0.770,0.790,(3.0087)+(0.0350)Ser+(-0.0843)Asn+(0.0083)Gln+(-0.1409)His+(-0.0058)Tyr+(0.0050)Val;0.811,0.838,0.782,0.758,0.771,0.835,0.833,0.799,(3.5363)+(-0.0643)Asn+(0.0103)Gln+(-0.1517)His+(-0.0027)Pro+(0.0104)Orn+(0.0441)Ile;0.811,0.848,0.836,0.845,0.843,0.798,0.824,0.827,(4.0980)+(-0.0028)Arg+(0.0069)Tyr+(-0.0056)Val+(-0.1993)Met+(0.1192)Phe+(-0.1369)Trp;0.811,0.843,0.780,0.768,0.716,0.882,0.870,0.809,(1.5769)+(0.0464)Ser+(-0.1201)Asn+(-0.0057)Gly+(-0.0104)Ala+(0.1689)Ile+(-0.0790)Leu;0.811,0.842,0.751,0.740,0.742,0.785,0.771,0.760,(1.8178)+(0.0322)Ser+(-0.0064)Thr+(-0.0196)Ty

r+(-0.0000)Orn+(0.0573)Ile+(-0.1644)Trp;0.811,0.838,0.750,0.746,0.733,0.783,0.774,0.759,(2.2863)+(0.0071)Gln+(-0.1659)His+(0.0138)Thr+(0.0018)Pro+(-0.0539)Tyr+(0.0996)Phe;0.811,0.837,0.790,0.770,0.763,0.855,0.853,0.810,(3.5667)+(0.0097)Gln+(-0.1326)His+(-0.0070)Ala+(-0.0561)Cit+(-0.0152)Tyr+(0.0669)Ile;0.811,0.835,0.728,0.694,0.711,0.837,0.775,0.754,(3.2828)+(0.0396)Ser+(-0.1373)His+(-0.0060)Ala+(0.0090)Pro+(-0.0164)Val+(0.0441)Leu;0.811,0.844,0.781,0.780,0.772,0.826,0.767,0.786,(3.4485)+(0.0333)Ser+(-0.0073)Ala+(-0.0192)Arg+(0.0110)Pro+(0.0141)Leu+(-0.1508)Trp;0.811,0.843,0.794,0.795,0.816,0.838,0.712,0.790,(4.9831)+(0.0295)Ser+(0.0065)Thr+(-0.0692)Cit+(-0.0080)Arg+(0.0030)Tyr+(-0.1558)Trp;0.811,0.842,0.755,0.741,0.748,0.853,0.740,0.770,(3.8671)+(0.0432)Ser+(-0.1136)His+(-0.0043)Ala+(0.0162)Pro+(-0.1692)Met+(0.0071)Lys;0.811,0.841,0.846,0.849,0.851,0.846,0.824,0.843,(5.4100)+(-0.0552)Asn+(0.0089)Gln+(-0.0720)Cit+(-0.0785)Met+(0.0176)Leu+(-0.1498)Trp;0.811,0.840,0.809,0.796,0.801,0.835,0.844,0.819,(5.1744)+(0.0030)Gly+(-0.0063)Ala+(0.0256)Tyr+(-0.1763)Met+(0.0763)Ile+(-0.1445)Trp;0.811,0.843,0.797,0.809,0.805,0.830,0.727,0.793,(4.0227)+(0.0370)Ser+(-0.0120)Arg+(0.0039)Val+(-0.1447)Met+(0.0058)Lys+(-0.1402)Trp;0.811,0.842,0.799,0.810,0.803,0.835,0.734,0.796,(4.0722)+(0.0379)Ser+(-0.0009)Ala+(-0.0088)Arg+(0.0057)Val+(-0.1278)Met+(-0.1371)Trp;0.811,0.839,0.776,0.756,0.751,0.839,0.836,0.796,(3.7634)+(0.0076)Gln+(-0.1453)His+(-0.0057)Ala+(-0.0205)Tyr+(0.0147)Orn+(0.0548)Ile;0.811,0.847,0.755,0.744,0.753,0.804,0.751,0.763,(2.4365)+(0.0374)Ser+(-0.0190)Arg+(-0.0100)Tyr+(-0.0091)Lys+(0.0657)Ile+(-0.1579)Trp;0.811,0.840,0.797,0.790,0.813,0.825,0.762,0.798,(4.5635)+(0.0388)Ser+(-0.0052)Gly+(-0.0719)Cit+(-0.0027)Tyr+(0.0056)Val+(-0.1602)Trp;0.811,0.838,0.789,0.789,0.761,0.822,0.819,0.798,(2.3609)+(0.0093)Gln+(-0.1562)His+(-0.0027)Ala+(-0.0350)Tyr+(-0.0027)Lys+(0.0987)Phe;0.811,0.836,0.755,0.735,0.725,0.833,0.8

13,0.777,(6.8638)+(-0.0817)Asn+(-0.0798)His+(0.0246)Thr+(-0.0197)Arg+(-0.0439)Val+(0.1492)Ile;0.811,0.835,0.791,0.784,0.778,0.861,0.786,0.802,(3.2260)+(0.0381)Ser+(-0.0058)Gly+(0.0087)Gln+(-0.1435)His+(-0.0014)Ala+(-0.0215)Arg;0.811,0.832,0.764,0.747,0.754,0.836,0.780,0.779,(2.7792)+(0.0375)Ser+(-0.0062)Gly+(0.0068)Gln+(-0.1537)His+(-0.0176)Tyr+(0.0061)Val;0.811,0.845,0.753,0.745,0.754,0.795,0.740,0.759,(2.3601)+(0.0343)Ser+(-0.0246)Arg+(-0.0155)Tyr+(0.0051)Orn+(0.0588)Ile+(-0.1636)Trp;0.811,0.843,0.777,0.784,0.766,0.742,0.806,0.774,(2.4302)+(0.0022)Gln+(-0.0004)Pro+(-0.0406)Tyr+(0.0425)Ile+(0.0662)Phe+(-0.1775)Trp;0.811,0.842,0.798,0.808,0.808,0.810,0.740,0.792,(6.4506)+(-0.0022)Gly+(0.0229)Thr+(0.0074)Pro+(-0.1987)Met+(0.0134)Orn+(-0.1425)Trp;0.811,0.840,0.770,0.755,0.767,0.817,0.780,0.780,(2.3450)+(0.0104)Gln+(-0.1771)His+(0.0158)Thr+(-0.0266)Arg+(-0.0062)Lys+(0.0834)Phe;0.811,0.840,0.808,0.804,0.802,0.814,0.827,0.812,(3.7486)+(0.0002)Gly+(0.0055)Gln+(0.0023)Pro+(-0.2094)Met+(0.0628)Ile+(-0.1493)Trp;0.811,0.845,0.802,0.802,0.796,0.831,0.796,0.806,(7.0826)+(-0.1166)Asn+(0.0200)Thr+(-0.0367)Val+(0.0250)Orn+(0.0628)Leu+(-0.1341)Trp;0.811,0.845,0.783,0.802,0.780,0.742,0.765,0.772,(2.5305)+(0.0019)Gln+(0.0097)Thr+(-0.0449)Tyr+(0.0010)Orn+(0.0888)Phe+(-0.1710)Trp;0.811,0.842,0.832,0.841,0.835,0.793,0.831,0.825,(4.1462)+(-0.0244)Asn+(-0.0025)Ala+(-0.1794)Met+(0.0072)Lys+(0.1084)Phe+(-0.1434)Trp;0.811,0.840,0.805,0.796,0.813,0.820,0.798,0.807,(8.5343)+(-0.0235)Asn+(-0.0722)His+(-0.0345)Cit+(0.0087)Pro+(0.0105)Lys+(-0.1137)Trp;0.811,0.836,0.716,0.681,0.728,0.802,0.722,0.733,(0.9002)+(0.0488)Ser+(-0.1583)His+(-0.0197)Cit+(-0.0199)Arg+(0.0027)Pro+(0.0985)Phe;0.811,0.834,0.757,0.728,0.747,0.823,0.807,0.776,(3.4380)+(0.0005)Gly+(0.0080)Gln+(-0.1586)His+(0.0076)Thr+(-0.0100)Lys+(0.0485)Ile;0.811,0.845,0.798,0.811,0.805,0.836,0.722,0.794,(5.2656)+(0.0357)Ser+(-0.1025)Asn+(0.0108)Thr+(-0.0152)Arg+(0.0039)Lys+(-0

.1387)Trp;0.811,0.842,0.787,0.794,0.778,0.837,0.749,0.789,(3.9883)+(0.0322)Ser+(-0.0063)Ala+(-0.0193)Arg+(0.0124)Pro+(0.0008)Lys+(-0.1413)Trp;0.811,0.842,0.787,0.779,0.801,0.825,0.754,0.790,(7.7056)+(0.0027)Gly+(-0.0972)His+(-0.0124)Arg+(0.0346)Orn+(0.0100)Lys+(-0.1045)Trp;0.811,0.835,0.792,0.769,0.784,0.844,0.829,0.807,(3.4351)+(-0.0599)Asn+(0.0128)Gln+(-0.1432)His+(-0.0413)Cit+(-0.0100)Arg+(0.0481)Ile;0.811,0.840,0.797,0.788,0.807,0.828,0.779,0.800,(8.1455)+(-0.0919)His+(-0.0018)Ala+(-0.0109)Arg+(0.0365)Orn+(0.0099)Lys+(-0.1036)Trp;0.810,0.839,0.812,0.802,0.842,0.837,0.759,0.810,(7.2103)+(-0.1036)Cit+(0.0099)Tyr+(0.0007)Val+(-0.0826)Met+(0.0544)Orn+(-0.1466)Trp;0.810,0.835,0.741,0.725,0.727,0.787,0.782,0.755,(4.2499)+(-0.0364)Asn+(0.0055)Gly+(-0.1360)His+(-0.0433)Tyr+(0.0391)Ile+(0.0846)Phe;0.810,0.846,0.802,0.828,0.790,0.762,0.788,0.792,(2.6354)+(0.0026)Gln+(-0.0373)Tyr+(-0.0077)Val+(0.0114)Orn+(0.0945)Phe+(-0.1552)Trp;0.810,0.841,0.791,0.784,0.816,0.832,0.728,0.790,(4.5829)+(0.0339)Ser+(-0.0803)Cit+(0.0041)Tyr+(0.0077)Val+(-0.0061)Lys+(-0.1604)Trp;0.810,0.838,0.749,0.743,0.745,0.769,0.757,0.753,(5.2693)+(-0.0658)Asn+(-0.1391)His+(0.0291)Thr+(-0.0587)Tyr+(0.0001)Leu+(0.1116)Phe;0.810,0.837,0.786,0.788,0.769,0.815,0.794,0.791,(2.0104)+(0.0120)Gln+(-0.1575)His+(-0.0332)Cit+(-0.0177)Arg+(-0.0424)Tyr+(0.1086)Phe;0.810,0.834,0.746,0.723,0.746,0.835,0.745,0.762,(2.5400)+(0.0324)Ser+(0.0061)Gln+(-0.1571)His+(0.0044)Pro+(0.0055)Val+(-0.0077)Lys;0.810,0.848,0.816,0.822,0.808,0.796,0.828,0.814,(4.1602)+(-0.0081)Ala+(-0.0161)Arg+(0.0095)Pro+(0.0021)Leu+(0.0854)Phe+(-0.1596)Trp;0.810,0.847,0.802,0.792,0.802,0.784,0.839,0.804,(4.4070)+(-0.0572)Asn+(0.0030)Orn+(-0.0055)Lys+(0.0421)Ile+(0.0567)Phe+(-0.1658)Trp;0.810,0.846,0.766,0.770,0.749,0.819,0.753,0.773,(-2.6319)+(0.0490)Ser+(-0.0126)Arg+(-0.0434)Val+(-0.3928)Met+(0.0645)Leu+(0.1302)Phe;0.810,0.839,0.743,0.721,0.710,0.817,0.819,0.767,(5.4437)+(-0.1001)His+(

-0.0016)Pro+(-0.0267)Tyr+(-0.0346)Val+(0.0311)Orn+(0.1281)Ile;0.810,0.849,0.829,0.836,0.818,0.806,0.850,0.828,(2.6667)+(0.0037)Gln+(-0.0067)Ala+(-0.0063)Lys+(0.0068)Leu+(0.0805)Phe+(-0.1670)Trp;0.810,0.845,0.838,0.837,0.840,0.843,0.833,0.838,(5.1291)+(0.0072)Gln+(-0.0623)Cit+(-0.0187)Val+(-0.1304)Met+(0.0494)Leu+(-0.1475)Trp;0.810,0.845,0.771,0.787,0.771,0.734,0.755,0.762,(3.1156)+(0.0106)Thr+(0.0034)Pro+(-0.0469)Tyr+(0.0014)Orn+(0.0881)Phe+(-0.1687)Trp;0.810,0.843,0.827,0.835,0.832,0.835,0.790,0.823,(5.1704)+(0.0068)Gln+(-0.0694)Cit+(0.0106)Pro+(-0.1421)Met+(0.0050)Lys+(-0.1471)Trp;0.810,0.840,0.780,0.792,0.777,0.815,0.728,0.778,(-1.0527)+(0

.0548)Ser+(-0.1063)Asn+(-0.0642)Cit+(-0.0119)Val+(-0.2544)Met+(0.1416)Phe;0.810,0.845,0.786,0.789,0.786,0.820,0.751,0.786,(3.9698)+(0.0397)Ser+(-0.1111)Asn+(-0.0050)Tyr+(0.0166)Orn+(0.0122)Leu+(-0.1414)Trp;0.810,0.840,0.802,0.802,0.826,0.821,0.742,0.798,(7.5574)+(-0.0744)Asn+(0.0024)Gly+(0.0205)Thr+(-0.0778)Cit+(0.0156)Leu+(-0.1602)Trp;0.810,0.838,0.770,0.759,0.769,0.857,0.740,0.781,(3.1977)+(0.0297)Ser+(0.0070)Gln+(-0.1455)His+(-0.0025)Ala+(-0.0236)Arg+(0.0260)Orn;0.810,0.843,0.797,0.788,0.810,0.824,0.779,0.800,(8.2441)+(-0.0195)Asn+(-0.0903)His+(-0.0094)Arg+(0.0352)Orn+(0.0103)Lys+(-0.1049)Trp;0.810,0.850,0.802,0.804,0.800,0.780,0.813,0.800,(3.7141)+(0.0017)Gly+(-0.0167)Arg+(-0.0265)Val+(0.0427)Leu+(0.0883)Phe+(-0.1683)Trp;0.810,0.849,0.829,0.838,0.817,0.811,0.842,0.827,(2.7736)+(0.0033)Gln+(-0.0064)Ala+(0.0092)Orn+(-0.0060)Lys+(0.0798)Phe+(-0.1616)Trp;0.810,0.843,0.799,0.801,0.792,0.869,0.761,0.806,(3.3885)+(0.0353)Ser+(-0.0552)Asn+(0.0099)Gln+(-0.1266)His+(-0.0156)Arg+(-0.0652)Met;0.810,0.841,0.813,0.807,0.812,0.839,0.810,0.817,(8.8755)+(-0.0615)His+(-0.0043)Ala+(-0.0440)Cit+(0.0050)Arg+(0.0132)Pro+(-0.1055)Trp;0.810,0.838,0.785,0.763,0.788,0.813,0.817,0.796,(8.0260)+(-0.0926)His+(0.0060)Pro+(0.0080)Tyr+(-0.0187)Val+(0

.0498)Leu+(-0.1127)Trp;0.810,0.848,0.811,0.835,0.799,0.769,0.804,0.802,(2.5486)+(0.0035)Gln+(-0.0345)Tyr+(-0.0057)Val+(-0.0032)Lys+(0.0996)Phe+(-0.1572)Trp;0.810,0.847,0.770,0.770,0.743,0.824,0.788,0.782,(-2.7093)+(0.0462)Ser+(-0.0016)Ala+(-0.0442)Val+(-0.3988)Met+(0.0676)Leu+(0.1262)Phe;0.810,0.846,0.806,0.813,0.827,0.765,0.773,0.794,(2.9744)+(-0.0018)Gly+(0.0034)Gln+(0.0140)Thr+(-0.0298)Arg+(0.0752)Phe+(-0.1847)Trp;0.810,0.845,0.799,0.794,0.802,0.820,0.789,0.802,(4.5586)+(0.0510)Ser+(-0.0927)Asn+(-0.0069)Gly+(-0.0085)Arg+(0.0144)Leu+(-0.1434)Trp;0.810,0.840,0.776,0.772,0.710,0.881,0.850,0.803,(1.1108)+(0.0371)Ser+(-0.1324)Asn+(0.0014)Gln+(-0.0101)Ala+(0.1676)Ile+(-0.0785)Leu;0.810,0.839,0.794,0.775,0.804,0.811,0.810,0.800,(8.1180)+(0.0146)Asn+(-0.0884)His+(0.0074)Pro+(-0.0752)Met+(0.0232)Leu+(-0.1096)Trp;0.810,0.836,0.778,0.762,0.781,0.813,0.792,0.787,(7.6010)+(0.0035)Gly+(-0.0994)His+(-0.0153)Val+(0.0051)Lys+(0.0477)Leu+(-0.1116)Trp;0.810,0.832,0.711,0.664,0.715,0.818,0.749,0.737,(2.3506)+(0.0416)Ser+(-0.1440)His+(-0.0004)Thr+(-0.0404)Cit+(-0.0015)Pro+(0.0592)Ile;0.810,0.847,0.822,0.844,0.801,0.792,0.827,0.816,(2.5907)+(0.0036)Gln+(-0.0046)Ala+(-0.0266)Tyr+(-0.0042)Val+(0.0987)Phe+(-0.1560)Trp;0.810,0.843,0.795,0.816,0.785,0.743,0.800,0.786,(2.6663)+(-0.0019)Gly+(0.0032)Gln+(0.0042)Pro+(-0.0425)Tyr+(0.0849)Phe+(-0.1661)Trp;0.810,0.843,0.821,0.819,0.815,0.826,0.834,0.824,(4.1140)+(-0.0335)Asn+(0.0072)Gln+(-0.0079)Arg+(-0.1680)Met+(0.0628)Ile+(-0.1466)Trp;0.810,0.841,0.781,0.786,0.761,0.839,0.766,0.788,(3.7019)+(0.0297)Ser+(-0.0065)Ala+(0.0117)Pro+(-0.0039)Tyr+(-0.0036)Lys+(-0.1394)Trp;0.810,0.839,0.804,0.802,0.800,0.826,0.805,0.808,(8.7549)+(-0.0066)Asn+(-0.0739)His+(-0.0034)Ala+(-0.0008)Arg+(0.0116)Pro+(-0.0979)Trp;0.810,0.836,0.802,0.791,0.808,0.837,0.791,0.807,(7.9951)+(0.0040)Gly+(-0.0962)His+(-0.0025)Ala+(0.0195)Tyr+(0.0091)Val+(-0.1097)Trp;0.810,0.846,0.805,0.810,0.814,0.756,0.806,0.796,(2.7

089)+(-0.0018)Gly+(0.0020)Gln+(0.0053)Thr+(-0.0035)Leu+(0.0671)Phe+(-0.1791)Trp;0.810,0.842,0.779,0.787,0.760,0.830,0.761,0.784,(3.4417)+(0.0269)Ser+(-0.0071)Ala+(0.0107)Pro+(-0.0095)Tyr+(0.0138)Orn+(-0.1433)Trp;0.810,0.840,0.763,0.756,0.744,0.799,0.792,0.773,(2.1839)+(0.0080)Gln+(-0.1609)His+(0.0021)Pro+(-0.0473)Tyr+(0.0158)Orn+(0.0905)Phe;0.810,0.847,0.803,0.814,0.824,0.766,0.758,0.791,(2.7583)+(0.0032)Gln+(0.0131)Thr+(-0.0299)Arg+(-0.0038)Leu+(0.0806)Phe+(-0.1817)Trp;0.810,0.839,0.761,0.736,0.743,0.828,0.819,0.781,(3.4140)+(0.0072)Gln+(-0.1391)His+(0.0123)Orn+(-0.0064)Lys+(0.0936)Ile+(-0.0357)Leu;0.810,0.837,0.793,0.811,0.725,0.830,0.857,0.806,(2.6775)+(-0.0765)Asn+(-0.0087)Ala+(-0.0573)Tyr+(0.1729)Ile+(-0.0966)Leu+(0.0983)Phe;0.810,0.836,0.776,0.763,0.781,0.819,0.771,0.784,(3.7023)+(0.0071)Asn+(0.0070)Gly+(-0.1302)His+(-0.0015)Ala+(-0.1964)Met+(0.1309)Phe;0.810,0.834,0.795,0.791,0.824,0.826,0.722,0.791,(6.6944)+(0.0016)Gly+(-0.1130)Cit+(-0.0064)Tyr+(0.0007)Val+(0.0550)Orn+(-0.1560)Trp;0.810,0.842,0.751,0.740,0.742,0.786,0.771,0.760,(1.8184)+(0.0322)Ser+(-0.0063)Thr+(-0.0002)Pro+(-0.0195)Tyr+(0.0575)Ile+(-0.1645)Trp;0.810,0.842,0.791,0.776,0.750,0.858,0.865,0.812,(5.1311)+(-0.0291)Asn+(0.0139)Tyr+(-0.0527)Val+(-0.2612)Met+(0.2000)Ile+(-0.0121)Leu;0.810,0.841,0.792,0.787,0.745,0.863,0.854,0.812,(3.2142)+(0.0008)Gly+(0.0045)Gln+(-0.0093)Arg+(-0.0538)Val+(-0.2952)Met+(0.1881)Ile;0.810,0.841,0.768,0.729,0.777,0.811,0.824,0.785,(3.5937)+(0.0399)Asn+(-0.1328)His+(-0.2612)Met+(0.0121)Orn+(0.0491)Ile+(0.0931)Phe;0.810,0.839,0.768,0.731,0.775,0.807,0.826,0.785,(3.5700)+(0.0429)Asn+(-0.1299)His+(0.0018)Pro+(-0.2716)Met+(0.0507)Ile+(0.0976)Phe;0.810,0.839,0.786,0.781,0.741,0.846,0.846,0.804,(4.5764)+(-0.0102)Arg+(-0.0511)Val+(-0.2867)Met+(0.0113)Lys+(0.2100)Ile+(-0.0238)Leu;0.810,0.835,0.747,0.724,0.752,0.835,0.738,0.762,(2.0390)+(0.0349)Ser+(0.0076)Gln+(-0.1637)His+(-0.0237)Arg+(0.0037)Pro+(0.0159)Leu;0.81

0,0.835,0.768,0.760,0.755,0.852,0.754,0.780,(2.9534)+(0.0335)Ser+(0.0072)Gln+(-0.1413)His+(-0.0045)Ala+(-0.0221)Arg+(0.0104)Pro;0.810,0.845,0.756,0.741,0.767,0.850,0.706,0.766,(4.4934)+(0.0340)Ser+(-0.1226)His+(0.0130)Thr+(-0.0006)Ala+(-0.1567)Met+(0.0278)Orn;0.810,0.843,0.766,0.762,0.766,0.808,0.745,0.770,(3.5091)+(0.0320)Ser+(-0.0215)Arg+(0.0068)Pro+(-0.0237)Val+(0.0459)Leu+(-0.1545)Trp;0.810,0.841,0.837,0.844,0.841,0.836,0.811,0.833,(5.8802)+(-0.0841)Asn+(0.0080)Gln+(-0.0773)Cit+(0.0079)Pro+(0.0028)Lys+(-0.1506)Trp;0.810,0.836,0.792,0.767,0.780,0.848,0.838,0.808,(3.4748)+(-0.0678)Asn+(0.0122)Gln+(-0.1417)His+(-0.0487)Cit+(-0.0027)Pro+(0.0518)Ile;0.810,0.836,0.777,0.766,0.711,0.864,0.880,0.805,(5.3201)+(-0.1196)Asn+(-0.0083)Ala+(0.0045)Pro+(-0.0569)Val+(0.0290)Orn+(0.1731)Ile;0.810,0.834,0.734,0.703,0.731,0.838,0.752,0.756,(3.5098)+(0.0434)Ser+(-0.1382)His+(-0.0064)Ala+(-0.0144)Arg+(0.0097)Pro+(0.0200)Leu;0.810,0.838,0.786,0.772,0.791,0.819,0.793,0.794,(7.6507)+(0.0039)Gly+(-0.1018)His+(-0.0024)Ala+(0.0063)Lys+(0.0253)Leu+(-0.1126)Trp;0.810,0.836,0.767,0.753,0.750,0.834,0.794,0.783,(3.4398)+(0.0096)Gln+(-0.1396)His+(0.0077)Thr+(-0.0291)Arg+(0.1058)Ile+(-0.0432)Leu;0.810,0.836,0.748,0.722,0.734,0.841,0.778,0.769,(4.4028)+(0.0465)Ser+(-0.0803)Asn+(-0.1191)His+(-0.0023)Ala+(-0.0236)Val+(0.0586)Leu;0.810,0.839,0.751,0.729,0.716,0.827,0.830,0.776,(4.0158)+(0.0053)Gln+(-0.1202)His+(0.0080)Thr+(-0.0296)Val+(-0.0089)Lys+(0.1180)Ile;0.810,0.841,0.770,0.732,0.776,0.808,0.829,0.786,(3.5389)+(0.0416)Asn+(-0.1316)His+(0.0033)Arg+(-0.2714)Met+(0.0528)Ile+(0.0978)Phe;0.810,0.838,0.794,0.773,0.770,0.859,0.851,0.813,(3.3953)+(0.0107)Gln+(-0.1387)His+(-0.0073)Ala+(-0.0494)Cit+(-0.0102)Arg+(0.0644)Ile;0.810,0.838,0.758,0.737,0.761,0.841,0.750,0.772,(4.3039)+(0.0511)Ser+(-0.0267)Asn+(-0.0041)Gly+(-0.1086)His+(0.0122)Pro+(-0.1371)Met;0.810,0.834,0.746,0.713,0.728,0.833,0.810,0.771,(3.8833)+(0.0048)Gln+(-0.1145)His+(-0

.0663)Cit+(-0.0320)Val+(0.0368)Orn+(0.1149)Ile;0.810,0.845,0.787,0.79
1,0.778,0.764,0.813,0.787,(4.1091)+(-0.0592)Asn+(0.0015)Gly+(-0.0310)
Tyr+(0.0422)Ile+(0.0714)Phe+(-0.1606)Trp;0.810,0.844,0.768,0.761,0.70
1,0.875,0.848,0.796,(1.3938)+(0.0389)Ser+(-0.1277)Asn+(-0.0116)Ala+(0
.0062)Pro+(0.1612)Ile+(-0.0772)Leu;0.810,0.843,0.777,0.760,0.741,0.84
9,0.841,0.798,(4.5438)+(-0.0097)Arg+(0.0018)Pro+(-0.0572)Val+(-0.2762
)Met+(0.0287)Orn+(0.1866)Ile;0.810,0.840,0.793,0.793,0.785,0.862,0.76
1,0.800,(3.3760)+(0.0352)Ser+(-0.0745)Asn+(0.0098)Gln+(-0.1339)His+(-
0.0183)Arg+(0.0024)Tyr;0.810,0.844,0.762,0.741,0.770,0.849,0.736,0.77
4,(4.5345)+(0.0404)Ser+(-0.0048)Gly+(-0.1211)His+(0.0136)Thr+(-0.1622
)Met+(0.0277)Orn;0.810,0.843,0.799,0.780,0.826,0.837,0.765,0.802,(8.3
186)+(-0.0708)His+(-0.0807)Cit+(0.0014)Arg+(0.0048)Tyr+(0.0576)Orn+(-
0.1138)Trp;0.810,0.839,0.784,0.781,0.792,0.811,0.760,0.786,(7.7443)+(
0.0032)Gly+(-0.0920)His+(-0.0108)Arg+(0.0082)Pro+(0.0120)Lys+(-0.1081
)Trp;0.810,0.836,0.767,0.746,0.735,0.854,0.825,0.790,(5.7073)+(-0.130
6)Asn+(-0.0844)Cit+(-0.0527)Val+(0.0547)Orn+(0.1733)Ile+(-0.0149)Leu;
0.810,0.848,0.782,0.796,0.787,0.754,0.752,0.772,(3.4992)+(0.0157)Thr+
(-0.0438)Tyr+(0.0057)Orn+(-0.0091)Lys+(0.0950)Phe+(-0.1623)Trp;0.810,
0.844,0.829,0.836,0.834,0.805,0.815,0.822,(4.1040)+(-0.0029)Ala+(-0.0
067)Arg+(-0.1760)Met+(0.0162)Orn+(0.1049)Phe+(-0.1382)Trp;0.810,0.842
,0.795,0.781,0.790,0.831,0.819,0.805,(2.3151)+(-0.0633)Asn+(0.0126)Gl
n+(-0.1609)His+(-0.0192)Arg+(0.0133)Orn+(0.0753)Phe;0.810,0.844,0.825
,0.840,0.814,0.805,0.824,0.821,(4.5629)+(-0.0580)Asn+(0.0018)Gly+(-0.
0041)Ala+(-0.0180)Tyr+(0.0979)Phe+(-0.1432)Trp;0.810,0.838,0.766,0.74
5,0.778,0.815,0.761,0.775,(3.4634)+(0.0066)Gly+(-0.1346)His+(-0.2019)
Met+(0.0184)Orn+(0.0035)Leu+(0.1172)Phe;0.810,0.837,0.776,0.766,0.750
,0.829,0.821,0.792,(2.1358)+(0.0021)Gly+(0.0081)Gln+(-0.1632)His+(-0.
0057)Ala+(0.0043)Pro+(0.0772)Phe;0.810,0.836,0.738,0.706,0.709,0.823,

0.820,0.764,(4.8711)+(-0.1130)His+(0.0071)Thr+(-0.0042)Pro+(-0.0348)Val+(0.0241)Orn+(0.1253)Ile;0.810,0.835,0.779,0.768,0.720,0.860,0.871,0.805,(5.5945)+(-0.1017)Asn+(-0.0071)Ala+(-0.0160)Arg+(-0.0584)Val+(0.0371)Orn+(0.1806)Ile;0.810,0.848,0.816,0.818,0.800,0.800,0.854,0.818,(4.1874)+(-0.0053)Ala+(-0.0129)Arg+(-0.0251)Val+(0.0456)Leu+(0.0918)Phe+(-0.1608)Trp;0.810,0.842,0.744,0.734,0.742,0.775,0.752,0.751,(5.0471)+(-0.0654)Asn+(-0.1403)His+(0.0262)Thr+(-0.0609)Tyr+(0.0210)Orn+(0.1047)Phe;0.810,0.839,0.791,0.803,0.809,0.812,0.704,0.782,(6.6426)+(0.0253)Thr+(-0.0164)Arg+(0.0076)Pro+(-0.1890)Met+(0.0164)Orn+(-0.1404)Trp;0.810,0.839,0.762,0.740,0.759,0.809,0.796,0.776,(2.4825)+(0.0079)Gln+(-0.1724)His+(0.0102)Thr+(0.0116)Orn+(-0.0114)Lys+(0.0752)Phe;0.810,0.833,0.770,0.757,0.755,0.813,0.804,0.782,(2.1673)+(0.0019)Gly+(0.0087)Gln+(-0.1671)His+(-0.0028)Val+(-0.0059)Lys+(0.0828)Phe;0.810,0.847,0.782,0.782,0.786,0.866,0.717,0.788,(3.5395)+(0.0286)Ser+(0.0073)Gln+(-0.1261)His+(0.0174)Thr+(-0.0375)Cit+(-0.1712)Met;0.810,0.842,0.780,0.766,0.733,0.830,0.880,0.802,(4.1751)+(-0.1362)Asn+(-0.0551)Cit+(-0.0591)Val+(-0.0027)Lys+(0.1665)Ile+(0.0758)Phe;0.810,0.841,0.796,0.780,0.804,0.813,0.812,0.802,(6.5228)+(-0.0798)Cit+(0.0019)Pro+(-0.0049)Tyr+(-0.0059)Lys+(0.0651)I

le+(-0.1639)Trp;0.810,0.839,0.799,0.791,0.818,0.824,0.761,0.799,(4.6672)+(0.0398)Ser+(-0.0053)Gly+(-0.0675)Cit+(-0.0060)Arg+(0.0055)Val+(-0.1593)Trp;0.810,0.836,0.769,0.766,0.747,0.802,0.796,0.778,(2.0482)+(0.0011)Gly+(0.0087)Gln+(-0.1631)His+(-0.0419)Tyr+(0.0018)Leu+(0.0953)Phe;0.810,0.835,0.745,0.706,0.744,0.841,0.784,0.768,(3.7725)+(0.0483)Ser+(-0.0041)Gly+(-0.1397)His+(-0.0039)Ala+(-0.0082)Lys+(0.0276)Leu;0.810,0.851,0.797,0.798,0.812,0.769,0.782,0.790,(3.4111)+(0.0097)Thr+(0.0045)Orn+(-0.0095)Lys+(0.0008)Leu+(0.0724)Phe+(-0.1731)Trp;0.810,0.843,0.826,0.826,0.804,0.844,0.861,0.834,(4.4925)+(-0.0555)Asn+(0.0063

)Gln+(-0.0071)Ala+(-0.0120)Arg+(0.0644)Ile+(-0.1527)Trp;0.810,0.841,0.782,0.788,0.763,0.838,0.768,0.789,(3.5631)+(0.0293)Ser+(0.0004)Gln+(-0.0067)Ala+(0.0113)Pro+(-0.0041)Lys+(-0.1409)Trp;0.810,0.840,0.809,0.804,0.803,0.815,0.828,0.812,(3.7999)+(0.0056)Gln+(0.0023)Pro+(-0.2065)Met+(-0.0012)Lys+(0.0634)Ile+(-0.1485)Trp;0.810,0.839,0.797,0.805,0.812,0.811,0.735,0.790,(6.1042)+(0.0220)Thr+(0.0080)Pro+(0.0102)Tyr+(-0.2219)Met+(0.0044)Lys+(-0.1474)Trp;0.810,0.848,0.797,0.804,0.806,0.753,0.794,0.789,(2.4575)+(0.0018)Gln+(0.0035)Thr+(0.0013)Pro+(-0.0036)Leu+(0.0682)Phe+(-0.1789)Trp;0.810,0.841,0.793,0.793,0.796,0.819,0.770,0.794,(8.3152)+(-0.0144)Asn+(0.0032)Gly+(-0.0802)His+(-0.0021)Arg+(0.0088)Pro+(-0.0982)Trp;0.810,0.838,0.779,0.756,0.771,0.840,0.808,0.794,(3.2101)+(-0.0761)Asn+(0.0041)Gly+(0.0113)Gln+(-0.1398)His+(-0.0537)Cit+(0.0514)Ile;0.810,0.836,0.718,0.683,0.729,0.803,0.727,0.736,(0.9412)+(0.0487)Ser+(-0.1588)His+(-0.0204)Cit+(-0.0188)Arg+(0.0026)Leu+(0.0983)Phe;0.810,0.835,0.751,0.716,0.748,0.840,0.786,0.772,(4.0980)+(0.0495)Ser+(-0.0548)Asn+(-0.0033)Gly+(-0.1324)His+(-0.0037)Ala+(0.0239)Leu;0.810,0.840,0.799,0.792,0.802,0.810,0.804,0.802,(8.2064)+(-0.0255)Asn+(-0.0851)His+(0.0075)Pro+(0.0020)Tyr+(0.0110)Lys+(-0.1092)Trp;0.810,0.838,0.819,0.811,0.824,0.831,0.824,0.822,(7.8112)+(-0.0264)Asn+(-0.0067)Ala+(-0.0725)Cit+(0.0125)Pro+(0.0174)Leu+(-0.1465)Trp;0.810,0.839,0.779,0.767,0.789,0.829,0.757,0.785,(3.9442)+(0.0086)Gly+(-0.1216)His+(-0.0022)Ala+(-0.0433)Cit+(-0.1796)Met+(0.1356)Phe;0.810,0.837,0.752,0.727,0.718,0.829,0.830,0.776,(3.7892)+(0.0045)Gln+(-0.1233)His+(-0.0038)Pro+(-0.0313)Val+(0.0200)Orn+(0.1170)Ile;0.810,0.833,0.749,0.726,0.712,0.824,0.834,0.774,(3.7331)+(-0.0005)Gly+(0.0050)Gln+(-0.1247)His+(0.0049)Thr+(-0.0301)Val+(0.1132)Ile;0.810,0.847,0.799,0.807,0.821,0.764,0.760,0.788,(2.7288)+(0.0031)Gln+(0.0123)Thr+(-0.0300)Arg+(0.0014)Pro+(0.0760)Phe+(-0.1845)Trp;0.810,0.839,0.815,0.806,0.8

19,0.841,0.814,0.820,(8.9357)+(-0.0640)His+(-0.0047)Ala+(-0.0425)Cit+(0.0124)Pro+(0.0164)Tyr+(-0.1102)Trp;0.810,0.837,0.779,0.776,0.714,0.856,0.865,0.803,(4.5133)+(-0.0098)Ala+(-0.0711)Cit+(-0.0228)Tyr+(-0.0344)Val+(0.2034)Ile+(-0.0394)Leu;0.810,0.841,0.796,0.810,0.814,0.815,0.710,0.787,(7.0693)+(0.0279)Thr+(-0.0140)Arg+(0.0093)Pro+(-0.0020)Val+(-0.1883)Met+(-0.1377)Trp;0.810,0.840,0.795,0.793,0.746,0.859,0.856,0.814,(3.1189)+(0.0044)Gln+(-0.0126)Arg+(-0.0564)Val+(-0.3143)Met+(0.0081)Lys+(0.1898)Ile;0.810,0.840,0.807,0.803,0.802,0.814,0.826,0.811,(3.7627)+(0.0054)Gln+(0.0023)Pro+(-0.2092)Met+(0.0013)Orn+(0.0623)Ile+(-0.1493)Trp;0.810,0.837,0.718,0.684,0.720,0.816,0.733,0.739,(2.9258)+(0.0434)Ser+(-0.1339)His+(-0.0290)Cit+(-0.0120)Arg+(-0.0208)Tyr+(0.0633)Ile;0.810,0.836,0.739,0.711,0.733,0.845,0.752,0.760,(3.6394)+(0.0370)Ser+(-0.1315)His+(-0.0046)Thr+(-0.0062)Ala+(0.0109)Pro+(0.0250)Orn;0.810,0.831,0.747,0.713,0.750,0.829,0.773,0.766,(2.1139)+(0.0379)Ser+(-0.0041)Gly+(0.0067)Gln+(-0.1616)His+(-0.0340)Cit+(0.0183)Leu;0.810,0.844,0.800,0.795,0.779,0.833,0.833,0.810,(6.1083)+(-0.0641)Asn+(0.0175)Thr+(-0.0074)Ala+(-0.0104)Tyr+(0.0638)Ile+(-0.1522)Trp;0.810,0.844,0.796,0.785,0.810,0.824,0.779,0.799,(8.2665)+(-0.0062)Asn+(-0.0915)His+(-0.0048)Arg+(0.0042)Val+(0.0359)Orn+(-0.1032)Trp;0.810,0.841,0.802,0.810,0.815,0.816,0.744,0.796,(6.6158)+(-0.0017)Gly+(0.0248)Thr+(0.0079)Pro+(0.0085)Tyr+(-0.2084)Met+(-0.1446)Trp;0.810,0.848,0.794,0.771,0.809,0.828,0.798,0.802,(8.0409)+(-0.0956)His+(0.0000)Arg+(-0.0548)Met+(0.0330)Orn+(0.0215)Leu+(-0.1079)Trp;0.810,0.840,0.837,0.844,0.842,0.838,0.810,0.833,(5.9274)+(-0.0791)Asn+(0.0082)Gln+(-0.0784)Cit+(0.0078)Pro+(0.0009)Val+(-0.1500)Trp;0.810,0.839,0.823,0.828,0.839,0.847,0.759,0.818,(8.3690)+(-0.0628)Asn+(0.0235)Thr+(-0.0036)Ala+(-0.0718)Cit+(0.0045)Val+(-0.1477)Trp;0.810,0.837,0.721,0.702,0.641,0.827,0.860,0.758,(0.3182)+(0.0316)Ser+(-0.0063)Gln+(-0.0119)Ala+(-0.0561)

Val+(0.1757)Ile+(0.0513)Phe;0.810,0.834,0.752,0.730,0.714,0.831,0.835,0.777,(3.7587)+(0.0050)Gln+(-0.1252)His+(0.0056)Thr+(-0.0035)Pro+(-0.0297)Val+(0.1171)Ile;0.810,0.841,0.752,0.726,0.721,0.830,0.831,0.777,(3.9839)+(0.0050)Gln+(-0.1182)His+(-0.0310)Val+(0.0213)Orn+(-0.0079)Lys+(0.1167)Ile;0.810,0.834,0.776,0.762,0.762,0.812,0.816,0.788,(2.3436)+(0.0091)Gln+(-0.1658)His+(0.0009)Pro+(-0.0033)Val+(-0.0059)Lys+(0.0803)Phe;0.810,0.837,0.737,0.716,0.728,0.842,0.736,0.755,(3.9365)+(0.0345)Ser+(-0.1292)His+(-0.0055)Ala+(0.0113)Pro+(-0.0166)Tyr+(0.0259)Orn;0.810,0.846,0.755,0.747,0.756,0.796,0.747,0.761,(2.2625)+(0.0341)Ser+(0.0005)Gln+(-0.0243)Arg+(-0.0143)Tyr+(0.0601)Ile+(-0.1647)Trp;0.810,0.842,0.796,0.778,0.786,0.844,0.829,0.809,(3.0568)+(0.0123)Gln+(-0.1417)His+(-0.0129)Arg+(-0.1851)Met+(0.0026)Lys+(0.0628)Ile;0.810,0.849,0.812,0.816,0.798,0.798,0.841,0.813,(3.8129)+(-0.0084)Ala+(0.0086)Pro+(-0.0038)Lys+(0.0040)Leu+(0.0798)Phe+(-0.1608)Trp;0.810,0.849,0.796,0.787,0.796,0.775,0.836,0.799,(2.5686)+(0.0030)Gln+(-0.0028)Pro+(-0.0132)Lys+(0.0503)Ile+(0.0547)Phe+(-0.1798)Trp;0.810,0.847,0.832,0.838,0.826,0.814,0.841,0.830,(4.8095)+(-0.0631)Asn+(-0.0052)Ala+(0.0149)Orn+(0.0004)Leu+(0.0790)Phe+(-0.1465)Trp;0.810,0.846,0.790,0.772,0.754,0.858,0.863,0.812,(5.0167)+(-0.0391)Cit+(0.0030)Pro+(0.0131)Tyr+(-0.0541)Val+(-0.2826)Met+(0.1865)Ile;0.810,0.842,0.782,0.766,0.744,0.857,0.846,0.803,(4.1198)+(0.0031)Gly+(-0.0041)Arg+(0.0218)Tyr+(-0.0567)Val+(-0.3130)Met+(0.1950)Ile;0.810,0.840,0.789,0.777,0.805,0.810,0.775,0.792,(6.3512)+(0.0137)Thr+(-0.0755)Cit+(0.0058)Pro+(-0.0200)Val+(0.0435)Leu+(-0.1702)Trp;0.810,0.838,0.771,0.757,0.703,0.850,0.894,0.801,(1.9757)+(0.0026)Thr+(-0.0128)Ala+(-0.0782)Cit+(-0.0523)Val+(0.1757)Ile+(0.0498)Phe;0.810,0.838,0.780,0.759,0.784,0.821,0.800,0.791,(7.5891)+(0.0040)Gly+(-0.1011)His+(0.0169)Tyr+(-0.0172)Val+(0.0517)Leu+(-0.1139)Trp;0.810,0.837,0.722,0.689,0.731,0.804,0.733,0.739,(1.0558)

+(0.0503)Ser+(-0.0014)Gly+(-0.1573)His+(-0.0179)Cit+(-0.0189)Arg+(0.0999)Phe;0.810,0.836,0.764,0.740,0.759,0.831,0.791,0.780,(3.4718)+(0.0100)Gln+(-0.1614)His+(0.0122)Thr+(-0.0229)Arg+(-0.0059)Lys+(0.0475)Ile;0.810,0.836,0.788,0.781,0.720,0.874,0.884,0.815,(4.5570)+(-0.1380)Asn+(0.0030)Gln+(-0.0074)Ala+(-0.0565)Val+(0.0279)Orn+(0.1743)Ile;0.810,0.841,0.800,0.793,0.809,0.830,0.779,0.803,(7.9853)+(0.0042)Gly+(-0.0798)His+(0.0088)Pro+(0.0244)Tyr+(-0.0878)Met+(-0.1014)Trp;0.810,0.841,0.780,0.787,0.761,0.832,0.766,0.786,(3.5346)+(0.0281)Ser+(0.0001)Gln+(-0.0068)Ala+(0.0115)Pro+(-0.0062)Tyr+(-0.1427)Trp;0.810,0.836,0.748,0.723,0.716,0.826,0.830,0.773,(3.7475)+(-0.0004)Gly+(0.0045)Gln+(-0.1233)His+(-0.0315)Val+(0.0185)Orn+(0.1126)Ile;0.810,0.834,0.731,0.695,0.723,0.838,0.768,0.756,(3.3787)+(0.0358)Ser+(-0.1415)His+(-0.0043)Ala+(-0.0189)Val+(0.0245)Orn+(0.0476)Leu;0.810,0.841,0.794,0.776,0.767,0.855,0.855,0.813,(6.3598)+(-0.0818)His+(-0.0056)Ala+(0.0026)Tyr+(-0.1302)Met+(0.1427)Ile+(-0.0517)Leu;0.810,0.839,0.806,0.797,0.806,0.827,0.815,0.811,(8.6349)+(-0.0783)His+(-0.0036)Ala+(0.0108)Pro+(0.0067)Val+(-0.0370)Met+(-0.1029)Trp;0.810,0.849,0.827,0.845,0.829,0.785,0.804,0.816,(2.6720)+(0.0043)Gln+(-0.0224)Arg+(-0.0069)Val+(0.0006)Lys+(0.0886)Phe+(-0.1669)Trp;0.810,0.849,0.794,0.798,0.819,0.766,0.751,0.784,(3.8648)+(0.0161)Thr+(-0.0251)Arg+(0.0020)Pro+(-0.0047)Lys+(0.0801)Phe+(-0.1779)Trp;0.810,0.845,0.771,0.752,0.757,0.852,0.792,0.788,(-0.7866)+(0.0437)Ser+(0.0022)Gln+(-0.0093)Ala+(-0.0882)Cit+(-0.2779)Met+(0.0883)Ile;0.810,0.842,0.747,0.739,0.740,0.780,0.760,0.755,(2.0343)+(0.0287)Ser+(-0.0007)Pro+(-0.0229)Tyr+(-0.0022)Orn+(0.0573)Ile+(-0.1673)Trp;0.810,0.840,0.810,0.811,0.814,0.843,0.771,0.810,(5.2365)+(0.0391)Ser+(-0.0054)Gly+(-0.0019)Ala+(-0.0589)Cit+(-0.0044)Arg+(-0.1426)Trp;0.810,0.834,0.788,0.779,0.820,0.817,0.727,0.786,(6.3683)+(0.0022)Gly+(-0.1160)Cit+(-0.0086)Tyr+(0.0522)Orn+(0.0112)Leu+(-0.1657)Trp;0

.810,0.845,0.802,0.795,0.778,0.829,0.850,0.813,(4.3176)+(0.0031)Gln+(0.0104)Thr+(-0.0090)Ala+(-0.0108)Lys+(0.0715)Ile+(-0.1612)Trp;0.810,0.836,0.786,0.770,0.803,0.825,0.762,0.790,(8.0785)+(-0.0063)Asn+(0.0060)Gly+(-0.0859)His+(-0.0459)Cit+(0.0284)Leu+(-0.1182)Trp;0.810,0.839,0.773,0.756,0.762,0.819,0.806,0.786,(2.4011)+(0.0083)Gln+(-0.1638)His+(-0.0047)Val+(0.0177)Orn+(-0.0069)Lys+(0.0784)Phe;0.810,0.855,0.758,0.741,0.745,0.867,0.750,0.776,(0.3688)+(0.0426)Ser+(-0.0741)Cit+(0.0061)Tyr+(-0.2919)Met+(0.1770)Ile+(-0.0758)Leu;0.810,0.842,0.753,0.724,0.752,0.842,0.765,0.771,(4.0317)+(0.0490)Ser+(-0.0413)Asn+(-0.1140)His+(-0.0252)Val+(-0.1404)Met+(0.0671)Leu;0.810,0.838,0.743,0.703,0.730,0.831,0.809,0.768,(5.6887)+(-0.0872)His+(-0.0700)Cit+(-0.0370)Val+(0.0510)Orn+(-0.0096)Lys+(0.1325)Ile;0.810,0.837,0.781,0.771,0.774,0.855,0.768,0.792,(3.2195)+(0.0366)Ser+(-0.0058)Gly+(0.0084)Gln+(-0.1501)His+(0.0058)Thr+(-0.0243)Arg;0.810,0.846,0.807,0.812,0.802,0.796,0.816,0.806,(3.3566)+(0.0100)Thr+(-0.0075)Ala+(0.0039)Orn+(0.0035)Leu+(0.0762)Phe+(-0.1707)Trp;0.810,0.845,0.833,0.846,0.826,0.807,0.833,0.828,(2.7138)+(-0.0001)Gly+(0.0047)Gln+(-0.0059)Ala+(-0.0199)Arg+(0.0885)Phe+(-0.1657)Trp;0.810,0.844,0.789,0.790,0.771,0.811,0.805,0.794,(5.9279)+(0.0008)Gly+(-0.0183)Arg+(-0.0114)Tyr+(0.1527)Ile+(-0.0689)Leu+(-0.1319)Trp;0.810,0.843,0.778,0.778,0.773,0.856,0.732,0.785,(3.2562)+(0.0281)Ser+(0.0068)Gln+(-0.1338)His+(0.0148)Thr+(-0.1816)Met+(0.0031)Lys;0.810,0.841,0.743,0.730,0.738,0.779,0.757,0.751,(2.2840)+(0.0306)Ser+(-0.0013)Gln+(-0.0227)Tyr+(-0.0011)Orn+(0.0572)Ile+(-0.1653)Trp;0.810,0.840,0.768,0.747,0.760,0.844,0.782,0.783,(5.7149)+(0.0066)Gly+(-0.0842)His+(-0.0493)Cit+(-0.1577)Met+(0.1393)Ile+(-0.0498)Leu;0.810,0.838,0.792,0.770,0.808,0.811,0.803,0.798,(8.1873)+(-0.0836)His+(-0.0382)Cit+(0.0063)Pro+(0.0045)Lys+(0.0200)Leu+(-0.1234)Trp;0.810,0.835,0.758,0.745,0.730,0.824,0.80

3,0.775,(3.6667)+(0.0067)Gln+(-0.1319)His+(0.0047)Thr+(-0.0304)Tyr+(0.1006)Ile+(-0.0362)Leu;0.810,0.830,0.749,0.724,0.732,0.849,0.776,0.770,(4.0797)+(0.0439)Ser+(-0.0048)Gly+(-0.1270)His+(0.0006)Thr+(-0.0057)Ala+(0.0115)Pro;0.810,0.844,0.742,0.707,0.759,0.838,0.733,0.759,(3.4002)+(0.0467)Ser+(-0.0255)Asn+(-0.1320)His+(-0.1510)Met+(0.0228)Orn+(0.0256)Leu;0.810,0.838,0.770,0.747,0.738,0.856,0.832,0.793,(5.7850)+(-0.1347)Asn+(-0.0827)Cit+(-0.0028)Pro+(-0.0574)Val+(0.0568)Orn+(0.1667)Ile;0.810,0.857,0.758,0.742,0.745,0.869,0.749,0.776,(0.6738)+(0.0426)Ser+(-0.0737)Cit+(-0.2673)Met+(-0.0039)Lys+(0.1756)Ile+(-0.0733)Leu;0.810,0.843,0.794,0.788,0.805,0.833,0.757,0.796,(8.1690)+(0.0044)Gly+(-0.0710)His+(-0.0450)Cit+(0.0024)Arg+(0.0097)Pro+(-0.1078)Trp;0.810,0.839,0.825,0.833,0.838,0.852,0.758,0.820,(8.6125)+(-0.0673)Asn+(0.0243)Thr+(-0.0028)Ala+(-0.0673)Cit+(0.0003)Arg+(-0.1410)Trp;0.810,0.840,0.792,0.782,0.800,0.805,0.796,0.796,(7.8572)+(-0.0937)His+(0.0065)Pro+(0.0000)Tyr+(0.0041)Val+(0.0084)Lys+(-0.1128)Trp;0.810,0.839,0.774,0.762,0.751,0.831,0.815,0.790,(2.1113)+(0.0019)Gly+(0.0077)Gln+(-0.1647)His+(-0.0049)Ala+(0.0138)Orn+(0.0758)Phe;0.810,0.840,0.775,0.761,0.779,0.817,0.772,0.782,(3.3839)+(0.0072)Gly+(-0.1364)His+(-0.0019)Ala+(-0.2129)Met+(0.0086)Lys+(0.1304)Phe;0.810,0.835,0.776,0.757,0.764,0.816,0.820,0.789,(2.2567)+(0.0095)Gln+(-0.1700)His+(-0.0001)Pro+(-0.0077)Lys+(0.0034)Leu+(0.0731)Phe;0.810,0.833,0.758,0.737,0.762,0.843,0.741,0.771,(2.6462)+(0.0333)Ser+(0.0074)Gln+(-0.1518)His+(-0.0422)Cit+(0.0090)Val+(-0.0084)Lys;0.810,0.836,0.772,0.769,0.746,0.806,0.812,0.783,(2.3599)+(0.0085)Gln+(-0.1581)His+(-0.0390)Tyr+(-0.0110)Val+(0.0187)Leu+(0.0924)Phe;0.810,0.845,0.795,0.811,0.783,0.781,0.787,0.790,(3.3969)+(0.0137)Thr+(-0.0059)Ala+(-0.0344)Tyr+(0.0054)Orn+(0.0933)Phe+(-0.1614)Trp;0.810,0.841,0.780,0.768,0.732,0.828,0.877,0.801,(4.1632)+(-0.1370)Asn+(-0.0514)Cit+(-0.0041)Arg+(-0.0601)Val+(0.1667)Ile+(0

.0754)Phe;0.810,0.840,0.794,0.795,0.735,0.844,0.880,0.813,(2.7756)+(-0.1576)Asn+(0.0054)Gln+(-0.0199)Arg+(-0.0614)Val+(0.1651)Ile+(0.0641)Phe;0.810,0.839,0.779,0.768,0.771,0.853,0.771,0.791,(2.9677)+(0.0354)Ser+(-0.0839)Asn+(0.0084)Gln+(-0.1422)His+(0.0049)Val+(-0.0015)Lys;0.810,0.838,0.772,0.756,0.712,0.863,0.876,0.802,(4.3485)+(0.0117)Thr+(-0.0110)Ala+(-0.0754)Cit+(-0.0476)Val+(-0.0142)Lys+(0.1834)Ile;0.810,0.838,0.778,0.777,0.757,0.804,0.806,0.786,(2.2746)+(0.0092)Gln+(-0.1583)His+(-0.0395)Tyr+(-0.0016)Val+(-0.0028)Lys+(0.1000)Phe;0.810,0.845,0.827,0.833,0.830,0.800,0.822,0.822,(3.8823)+(-0.0030)Ala+(-0.1870)Met+(0.0130)Orn+(0.0029)Leu+(0.1034)Phe+(-0.1405)Trp;0.810,0.844,0.820,0.831,0.826,0.824,0.776,0.814,(5.1233)+(-0.0659)Asn+(0.0061)Gln+(0.0247)Thr+(-0.1765)Met+(0.0146)Leu+(-0.1508)Trp;0.810,0.843,0.792,0.776,0.755,0.862,0.860,0.813,(5.0675)+(-0.0410)Cit+(0.0124)Tyr+(-0.0480)Val+(-0.2660)Met+(0.2025)Ile+(-0.0191)Leu;0.810,0.842,0.784,0.770,0.744,0.851,0.858,0.806,(4.5419)+(0.0023)Pro+(0.0142)Tyr+(-0.0520)Val+(-0.2997)Met+(0.2003)Ile+(-0.0140)Leu;0.810,0.838,0.742,0.721,0.709,0.815,0.816,0.765,(5.3957)+(-0.0979)His+(-0.0283)Tyr+(-0.0321)Val+(0.0301)Orn+(0.1326)Ile+(-0.0085)Leu;0.810,0.838,0.723,0.693,0.729,0.807,0.726,0.739,(1.0670)+(0.0482)Ser+(-0.1545)His+(-0.0180)Cit+(-0.0193)Arg+(-0.0029)Val+(0.1062)Phe;0.810,0.836,0.752,0.731,0.739,0.849,0.761,0.770,(4.3743)+(0.0440)Ser+(-0.0604)Asn+(-0.1196)His+(-0.0058)Ala+(0.0121)Pro+(0.0036)Val;0.810,0.848,0.798,0.818,0.788,0.757,0.793,0.789,(2.5349)+(0.0033)Gln+(0.0042)Pro+(-0.0388)Tyr+(-0.0058)Lys+(0.0902)Phe+(-0.1630)Trp;0.810,0.838,0.785,0.765,0.798,0.822,0.785,0.793,(7.6984)+(-0.0090)Asn+(0.0044)Gly+(-0.1025)His+(0.0135)Tyr+(0.0245)Leu+(-0.1141)Trp;0.810,0.841,0.796,0.797,0.800,0.822,0.769,0.797,(8.2190)+(0.0033)Gly+(-0.0766)His+(-0.0002)Arg+(0.0102)Pro+(-0.0549)Met+(-0.0957)Trp;0.810,0.836,0.756,0.735,0.748,0.845,0.764,0.773,(2.7377)+(0.0290)Ser

+(0.0053)Gln+(-0.1550)His+(-0.0040)Ala+(0.0055)Val+(0.0175)Orn;0.810,0.841,0.772,0.757,0.778,0.819,0.765,0.780,(3.5250)+(0.0060)Gly+(-0.1263)His+(-0.0062)Val+(-0.1925)Met+(0.0240)Orn+(0.1274)Phe;0.810,0.835,0.782,0.770,0.768,0.824,0.812,0.793,(2.2850)+(0.0111)Gln+(-0.1658)His+(-0.0236)Arg+(-0.0162)Val+(0.0240)Leu+(0.0808)Phe;0.810,0.833,0.767,0.748,0.755,0.813,0.805,0.781,(2.0752)+(0.0021)Gly+(0.0089)Gln+(-0.1709)His+(-0.0077)Lys+(0.0036)Leu+(0.0752)Phe;0.810,0.846,0.752,0.725,0.739,0.808,0.807,0.770,(4.0481)+(-0.1191)His+(-0.0193)Arg+(0.0199)Orn+(0.1102)Ile+(-0.0626)Leu+(0.0719)Phe;0.810,0.841,0.798,0.788,0.789,0.863,0.798,0.809,(3.4307)+(0.0406)Ser+(-0.0885)Asn+(-0.0045)Gly+(0.0095)Gln+(-0.1265)His+(-0.0322)Cit;0.810,0.840,0.803,0.801,0.785,0.826,0.826,0.810,(4.2149)+(0.0038)Gln+(0.0134)Thr+(-0.0089)Ala+(-0.0237)Arg+(0.0678)Ile+(-0.1676)Trp;0.810,0.839,0.707,0.655,0.723,0.824,0.732,0.733,(2.3624)+(0.0389)Ser+(-0.1461)His+(-0.0587)Cit+(-0.0027)Pro+(0.0265)Orn+(0.0533)Ile;0.810,0.838,0.774,0.773,0.753,0.805,0.798,0.782,(2.1475)+(0.0011)Gly+(0.0090)Gln+(-0.1605)His+(-0.0392)Tyr+(-0.0034)Lys+(0.0986)Phe;0.810,0.837,0.768,0.766,0.746,0.796,0.801,0.777,(2.1409)+(0.0088)Gln+(-0.1612)His+(0.0028)Pro+(-0.0453)Tyr+(0.0005)Leu+(0.0941)Phe;0.810,0.837,0.773,0.770,0.751,0.802,0.804,0.782,(2.2356)+(0.0091)Gln+(-0.1591)His+(0.0030)Pro+(-0.0429)Tyr+(-0.0036)Lys+(0.0960)Phe;0.810,0.850,0.812,0.818,0.821,0.772,0.809,0.805,(4.3351)+(-0.0757)Asn+(0.0019)Gly+(0.0033)Pro+(0.0007)Lys+(0.0764)Phe+(-0.1576)Trp;0.810,0.843,0.771,0.754,0.738,0.861,0.816,0.793,(-0.3442)+(0.0469)Ser+(-0.1495)Asn+(-0.0125)Ala+(-0.0918)Cit+(0.0543)Ile+(0.0586)Phe;0.810,0.843,0.812,0.809,0.818,0.847,0.780,0.813,(5.0190)+(0.0377)Ser+(-0.0049)Gly+(-0.0026)Ala+(-0.0647)Cit+(0.0082)Tyr+(-0.1471)Trp;0.810,0.837,0.782,0.766,0.800,0.820,0.762,0.787,(7.7690)+(0.0056)Gly+(-0.0907)His+(-0.0440)Cit+(0.0041)Lys+(0.0266)Leu+(-0.1208)Trp;0.810,0.853,0.810,0.8

16,0.816,0.771,0.812,0.804,(2.5931)+(0.0027)Gln+(0.0016)Pro+(0.0048)Orn+(-0.0081)Lys+(0.0707)Phe+(-0.1719)Trp;0.810,0.843,0.813,0.819,0.812,0.831,0.787,0.812,(5.2994)+(0.0484)Ser+(-0.0901)Asn+(-0.0070)Gly+(-0.0106)Arg+(0.0045)Lys+(-0.1353)Trp;0.810,0.842,0.806,0.813,0.820,0.843,0.734,0.803,(4.3130)+(0.0285)Ser+(0.0030)Gln+(-0.0704)Cit+(-0.0064)Arg+(-0.0019)Lys+(-0.1517)Trp;0.810,0.841,0.849,0.863,0.849,0.860,0.802,0.844,(5.8487)+(-0.0641)Asn+(0.0019)Gly+(0.0089)Gln+(-0.0685)Cit+(-0.0502)Met+(-0.1355)Trp;0.810,0.841,0.779,0.785,0.760,0.831,0.766,0.786,(3.5081)+(0.0284)Ser+(-0.0068)Ala+(0.0114)Pro+(-0.0064)Tyr+(0.0009)Val+(-0.1436)Trp;0.810,0.839,0.781,0.766,0.793,0.810,0.778,0.787,(5.5157)+(0.0039)Gly+(-0.0869)Cit+(0.0003)Arg+(-0.0056)Tyr+(0.0653)Ile+(-0.1717)Trp;0.810,0.847,0.807,0.809,0.821,0.842,0.749,0.805,(3.6455)+(0.0407)Ser+(-0.0106)Arg+(0.0331)Tyr+(0.0041)Val+(-0.1837)Met+(-0.1456)Trp;0.810,0.837,0.806,0.808,0.809,0.827,0.778,0.806,(8.2264)+(-0.0175)Asn+(0.0034)Gly+(-0.0836)His+(-0.0543)Met+(0.0153)Lys+(-0.1014)Trp;0.810,0.836,0.784,0.770,0.792,0.810,0.784,0.789,(7.6918)+(-0.0165)Asn+(0.0041)Gly+(-0.1010)His+(0.0071)Lys+(0.0222)Leu+(-0.1129)Trp;0.810,0.843,0.737,0.709,0.733,0.794,0.779,0.754,(-4.1343)+(0.0628)Ser+(-0.0059)Gly+(-0.3924)Met+(-0.0175)Lys+(0.0630)Ile+(0.0934)Phe;0.810,0.844,0.761,0.733,0.788,0.826,0.733,0.770,(3.5047)+(0.0080)Gly+(-0.1251)His+(-0.0663)Cit+(-0.1851)Met+(0.0361)Orn+(0.1182)Phe;0.810,0.838,0.776,0.759,0.780,0.825,0.777,0.785,(3.7585)+(0.0073)Gly+(-0.1314)His+(-0.0021)Ala+(-0.1961)Met+(0.0081)Leu+(0.1234)Phe;0.810,0.839,0.784,0.770,0.759,0.833,0.840,0.800,(2.3023)+(0.0087)Gln+(-0.1634)His+(-0.0058)Ala+(0.0041)Pro+(0.0028)Leu+(0.0719)Phe;0.810,0.832,0.764,0.753,0.764,0.845,0.734,0.774,(2.5683)+(0.0331)Ser+(0.0083)Gln+(-0.1577)His+(-0.0222)Arg+(0.0063)Val+(-0.0020)Lys;0.810,0.845,0.800,0.814,0.781,0.777,0.819,0.798,(3.7718)+(-0.0002)Gly+(-0.0073)Ala+(0.0097)Pro+(-0.028

0)Tyr+(0.0913)Phe+(-0.1534)Trp;0.810,0.839,0.775,0.754,0.750,0.842,0.835,0.795,(6.0696)+(-0.0978)His+(-0.0071)Ala+(-0.0150)Arg+(0.0283)Orn+(0.1287)Ile+(-0.0545)Leu;0.810,0.837,0.777,0.774,0.756,0.808,0.808,0.787,(2.2362)+(0.0094)Gln+(-0.1610)His+(-0.0401)Tyr+(-0.0041)Lys+(0.0034)Leu+(0.0945)Phe;0.810,0.834,0.801,0.796,0.814,0.834,0.759,0.801,(8.4991)+(0.0056)Gly+(-0.0801)His+(-0.0021)Ala+(-0.0482)Cit+(0.0123)Val+(-0.1115)Trp;0.810,0.833,0.746,0.729,0.706,0.824,0.817,0.769,(4.1216)+(0.0046)Gln+(-0.1175)His+(0.0083)Thr+(-0.0270)Tyr+(-0.0288)Val+(0.1171)Ile;0.810,0.849,0.782,0.794,0.786,0.760,0.755,0.774,(3.5182)+(0.0167)Thr+(-0.0436)Tyr+(-0.0090)Lys+(0.0016)Leu+(0.0968)Phe+(-0.1648)Trp;0.810,0.843,0.795,0.789,0.768,0.821,0.850,0.807,(3.9414)+(0.0024)Gln+(0.0054)Thr+(-0.0102)Ala+(0.0041)Pro+(0.0627)Ile+(-0.1664)Trp;0.810,0.840,0.838,0.845,0.842,0.839,0.811,0.834,(5.9741)+(-0.0800)Asn+(0.0082)Gln+(-0.0778)Cit+(0.0006)Arg+(0.0080)Pro+(-0.1485)Trp;0.810,0.838,0.790,0.786,0.773,0.863,0.779,0.800,(3.4283)+(0.0339)Ser+(-0.0858)Asn+(0.0083)Gln+(-0.1310)His+(-0.0013)Ala+(0.0023)Tyr;0.810,0.834,0.730,0.694,0.721,0.838,0.766,0.755,(3.1551)+(0.0406)Ser+(-0.1438)His+(-0.0003)Thr+(-0.0067)Ala+(0.0088)Pro+(0.0207)Leu;0.810,0.844,0.824,0.817,0.821,0.828,0.846,0.828,(3.8547)+(-0.0357)Asn+(0.0068)Gln+(0.0153)Tyr+(-0.2021)Met+(0.0623)Ile+(-0.1511)Trp;0.810,0.839,0.794,0.790,0.779,0.861,0.790,0.805,(2.9476)+(0.0385)Ser+(-0.0055)Gly+(0.0080)Gln+(-0.1316)His+(-0.1311)Met+(0.0025)Lys;0.810,0.839,0.823,0.839,0.828,0.829,0.770,0.816,(5.3899)+(-0.0034)Gly+(0.0050)Gln+(0.0236)Thr+(-0.1963)Met+(0.0018)Lys+(-0.1487)Trp;0.810,0.837,0.730,0.681,0.745,0.831,0.760,0.754,(3.5475)+(0.0466)Ser+(-0.0047)Gly+(-0.1467)His+(0.0222)Orn+(-0.0120)Lys+(0.0213)Leu;0.810,0.838,0.752,0.733,0.751,0.839,0.740,0.766,(3.0489)+(0.0293)Ser+(0.0054)Gln+(-0.1487)His+(-0.0018)Thr+(0.0231)Orn+(-0.0062)Lys;0.810,0.840,0.743,0.730,0.739,0.779,0.757,0.751,(2.2

821)+(0.0305)Ser+(-0.0013)Gln+(-0.0005)Pro+(-0.0226)Tyr+(0.0574)Ile+(-0.1652)Trp;0.810,0.839,0.749,0.744,0.732,0.787,0.772,0.759,(2.3294)+(0.0066)Gln+(-0.1661)His+(0.0130)Thr+(-0.0540)Tyr+(0.0132)Orn+(0.0971)Phe;0.810,0.839,0.770,0.756,0.703,0.854,0.886,0.800,(1.5591)+(0.0030)Gly+(-0.0129)Ala+(-0.0830)Cit+(-0.0517)Val+(0.1757)Ile+(0.0525)Phe;0.810,0.844,0.798,0.778,0.804,0.819,0.819,0.805,(6.4274)+(-0.0847)Cit+(0.0080)Arg+(-0.0046)Tyr+(-0.0082)Lys+(0.0685)Ile+(-0.1643)Trp;0.810,0.842,0.822,0.826,0.824,0.812,0.816,0.819,(5.0128)+(-0.0050)Ala+(-0.0844)Cit+(-0.0135)Tyr+(0.0011)

Val+(0.1083)Phe+(-0.1584)Trp;0.810,0.843,0.798,0.797,0.793,0.815,0.800,0.801,(7.2306)+(-0.1100)Asn+(0.0219)Thr+(0.0051)Pro+(-0.0337)Val+(0.0595)Leu+(-0.1382)Trp;0.810,0.839,0.855,0.868,0.854,0.861,0.817,0.850,(5.9973)+(-0.0607)Asn+(0.0090)Gln+(-0.0008)Ala+(-0.0658)Cit+(-0.0447)Met+(-0.1345)Trp;0.810,0.836,0.743,0.719,0.745,0.836,0.738,0.759,(2.8797)+(0.0302)Ser+(0.0051)Gln+(-0.1508)His+(0.0048)Pro+(0.0195)Orn+(-0.0075)Lys;0.810,0.831,0.739,0.700,0.735,0.841,0.780,0.764,(3.5529)+(0.0436)Ser+(-0.0040)Gly+(-0.1472)His+(0.0041)Thr+(-0.0045)Ala+(0.0233)Leu;0.810,0.829,0.732,0.700,0.731,0.823,0.756,0.752,(1.8880)+(0.0336)Ser+(0.0055)Gln+(-0.1657)His+(-0.0037)Thr+(0.0028)Pro+(0.0167)Leu;0.810,0.844,0.778,0.768,0.783,0.746,0.818,0.779,(2.2780)+(0.0017)Gln+(0.0025)Thr+(-0.0102)Orn+(0.0421)Ile+(0.0489)Phe+(-0.1928)Trp;0.810,0.842,0.768,0.754,0.714,0.881,0.836,0.796,(0.7761)+(0.0330)Ser+(-0.0030)Gly+(-0.0136)Ala+(-0.0944)Cit+(0.1888)Ile+(-0.0843)Leu;0.810,0.839,0.788,0.768,0.798,0.803,0.809,0.795,(7.8315)+(-0.0984)His+(0.0052)Pro+(0.0008)Tyr+(0.0055)Lys+(0.0186)Leu+(-0.1171)Trp;0.810,0.836,0.791,0.773,0.780,0.842,0.827,0.806,(3.5044)+(-0.0508)Asn+(0.0123)Gln+(-0.1509)His+(-0.0166)Arg+(-0.0019)Pro+(0.0470)Ile;0.809,0.839,0.779,0.763,0.756,0.836,0.828,0.796,(2.3254)+(0.0080)Gln+(-0.1623)His+(-0.0059)Ala

+(0.0038)Pro+(0.0131)Orn+(0.0706)Phe;0.809,0.834,0.751,0.715,0.746,0.815,0.809,0.771,(1.7805)+(0.0087)Gln+(-0.1705)His+(0.0057)Thr+(-0.0492)Cit+(0.0331)Ile+(0.0538)Phe;0.809,0.834,0.762,0.741,0.775,0.800,0.759,0.769,(3.3895)+(0.0074)Gly+(-0.1307)His+(0.0063)Pro+(-0.2260)Met+(0.0035)Leu+(0.1234)Phe;0.809,0.845,0.831,0.843,0.824,0.805,0.834,0.826,(2.6854)+(0.0046)Gln+(-0.0062)Ala+(-0.0199)Arg+(0.0037)Leu+(0.0859)Phe+(-0.1680)Trp;0.809,0.840,0.828,0.834,0.823,0.848,0.809,0.829,(5.7486)+(0.0056)Gln+(-0.0068)Ala+(-0.0809)Cit+(0.0138)Pro+(-0.0002)Lys+(-0.1500)Trp;0.809,0.835,0.735,0.719,0.662,0.849,0.850,0.770,(1.9125)+(0.0331)Ser+(-0.0032)Gln+(-0.0099)Ala+(-0.0491)Val+(-0.0160)Lys+(0.1818)Ile;0.809,0.834,0.768,0.747,0.720,0.866,0.851,0.796,(3.4267)+(-0.0119)Ala+(-0.1061)Cit+(-0.0384)Val+(0.0437)Orn+(0.1947)Ile+(-0.0361)Leu;0.809,0.844,0.806,0.795,0.817,0.837,0.792,0.810,(8.1839)+(-0.0049)Asn+(-0.0838)His+(0.0150)Tyr+(-0.0518)Met+(0.0360)Orn+(-0.0998)Trp;0.809,0.833,0.758,0.744,0.747,0.819,0.771,0.770,(3.8416)+(0.0095)Gln+(-0.1552)His+(0.0154)Thr+(-0.0257)Arg+(-0.0318)Tyr+(0.0513)Ile;0.809,0.849,0.805,0.825,0.779,0.784,0.823,0.803,(2.6785)+(0.0031)Gln+(-0.0075)Ala+(0.0090)Pro+(-0.0299)Tyr+(0.0896)Phe+(-0.1593)Trp;0.809,0.843,0.805,0.808,0.819,0.842,0.741,0.802,(4.2804)+(0.0285)Ser+(0.0026)Gln+(-0.0755)Cit+(0.0045)Tyr+(-0.0037)Lys+(-0.1535)Trp;0.809,0.842,0.788,0.775,0.748,0.852,0.864,0.810,(5.2063)+(-0.0331)Asn+(0.0030)Pro+(0.0137)Tyr+(-0.0564)Val+(-0.2680)Met+(0.1882)Ile;0.809,0.848,0.816,0.821,0.830,0.778,0.801,0.808,(4.8262)+(-0.0606)Asn+(-0.0131)Arg+(0.0030)Pro+(0.0137)Orn+(0.0719)Phe+(-0.1560)Trp;0.809,0.845,0.761,0.754,0.758,0.800,0.758,0.767,(2.8392)+(0.0256)Ser+(0.0037)Pro+(-0.0256)Val+(0.0112)Orn+(0.0458)Leu+(-0.1609)Trp;0.809,0.839,0.743,0.723,0.741,0.782,0.774,0.755,(-3.9532)+(0.0650)Ser+(-0.0725)Asn+(-0.0049)Gly+(-0.3752)Met+(0.0484)Ile+(0.0879)Phe;0.809,0.836,0.761,0.740,0.744,0.817,0.812,0.7

78,(2.3847)+(0.0072)Gln+(-0.1640)His+(-0.0180)Val+(0.0176)Orn+(0.0254)Leu+(0.0667)Phe;0.809,0.845,0.759,0.743,0.771,0.849,0.708,0.768,(4.7600)+(0.0368)Ser+(-0.0426)Asn+(-0.1170)His+(0.0134)Thr+(-0.1324)Met+(0.0278)Orn;0.809,0.840,0.805,0.801,0.757,0.867,0.874,0.825,(3.0478)+(-0.0705)Asn+(-0.0119)Ala+(-0.0896)Cit+(0.1784)Ile+(-0.0943)Leu+(0.0821)Phe;0.809,0.836,0.772,0.756,0.766,0.846,0.770,0.784,(2.7400)+(0.0398)Ser+(-0.0057)Gly+(0.0083)Gln+(-0.1506)His+(-0.0238)Arg+(0.0062)Pro;0.809,0.843,0.752,0.718,0.727,0.833,0.835,0.778,(4.1615)+(-0.1469)His+(0.0121)Thr+(-0.0076)Ala+(0.0113)Orn+(0.0410)Ile+(0.0519)Phe;0.809,0.843,0.744,0.704,0.759,0.838,0.752,0.763,(3.2497)+(0.0497)Ser+(-0.0034)Gly+(-0.1340)His+(-0.1687)Met+(0.0228)Orn+(0.0257)Leu;0.809,0.842,0.802,0.799,0.792,0.866,0.784,0.810,(3.1782)+(0.0402)Ser+(-0.0059)Gly+(0.0096)Gln+(-0.1319)His+(-0.0174)Arg+(-0.0993)Met;0.809,0.840,0.790,0.785,0.813,0.828,0.723,0.788,(4.4637)+(0.0329)Ser+(-0.0756)Cit+(-0.0054)Arg+(0.0025)Tyr+(0.0059)Val+(-0.1621)Trp;0.809,0.846,0.818,0.826,0.829,0.789,0.797,0.810,(3.3989)+(0.0018)Gly+(0.0032)Tyr+(-0.2162)Met+(0.0104)Orn+(0.1069)Phe+(-0.1424)Trp;0.809,0.845,0.793,0.798,0.817,0.763,0.749,0.782,(3.7626)+(0.0147)Thr+(-0.0274)Arg+(0.0023)Pro+(-0.0041)Leu+(0.0802)Phe+(-0.1778)Trp;0.809,0.843,0.784,0.775,0.741,0.847,0.852,0.804,(4.5223)+(-0.0082)Arg+(0.0040)Pro+(-0.0579)Val+(-0.3055)Met+(0.0103)Lys+(0.1882)Ile;0.809,0.840,0.776,0.738,0.786,0.812,0.827,0.791,(4.0666)+(-0.1259)His+(0.0031)Arg+(-0.2258)Met+(0.0133)Orn+(0.0447)Ile+(0.0898)Phe;0.809,0.840,0.798,0.794,0.769,0.819,0.858,0.810,(3.9265)+(0.0029)Gln+(-0.0099)Ala+(0.0047)Pro+(-0.0000)Orn+(0.0628)Ile+(-0.1632)Trp;0.809,0.839,0.814,0.820,0.819,0.836,0.772,0.812,(7.5965)+(0.0037)Gly+(-0.0053)Ala+(-0.0700)Cit+(0.0154)Pro+(-0.0649)Met+(-0.1300)Trp;0.809,0.838,0.777,0.759,0.739,0.843,0.856,0.799,(5.6531)+(-0.0997)His+(-0.0079)Ala+(0.0029)Pro+(0.0019)Lys+(0.1240)Ile+(-0.0491)Le

u;0.809,0.837,0.785,0.783,0.766,0.818,0.805,0.793,(2.2085)+(0.0106)Gl
n+(-0.1524)His+(-0.0455)Cit+(-0.0408)Tyr+(-0.0049)Lys+(0.1069)Phe;0.8
09,0.845,0.796,0.780,0.757,0.861,0.871,0.817,(5.5916)+(-0.0291)Asn+(-
0.0375)Cit+(0.0132)Tyr+(-0.0542)Val+(-0.2434)Met+(0.1883)Ile;0.809,0.
838,0.799,0.794,0.803,0.808,0.795,0.800,(8.3537)+(-0.0200)Asn+(-0.084
4)His+(-0.0073)Arg+(0.0080)Pro+(0.0125)Lys+(-0.1091)Trp;0.809,0.836,0
.781,0.765,0.770,0.840,0.805,0.795,(3.3144)+(-0.0554)Asn+(0.0027)Gly+
(0.0117)Gln+(-0.1505)His+(-0.0172)Arg+(0.0464)Ile;0.809,0.842,0.791,0
.768,0.792,0.839,0.816,0.804,(2.3569)+(-0.0839)Asn+(0.0118)Gln+(-0.14
97)His+(-0.0651)Cit+(0.0285)Orn+(0.0748)Phe;0.809,0.840,0.749,0.719,0
.750,0.840,0.763,0.768,(3.6013)+(0.0467)Ser+(-0.1212)His+(-0.0007)Ala
+(-0.0217)Val+(-0.1689)Met+(0.0641)Leu;0.809,0.837,0.802,0.795,0.833,
0.829,0.738,0.799,(7.2516)+(-0.1119)Cit+(-0.0002)Arg+(-0.0041)Tyr+(0.
0587)Orn+(-0.0041)Lys+(-0.1499)Trp;0.809,0.837,0.787,0.773,0.752,0.85
5,0.848,0.807,(6.4369)+(-0.0759)His+(-0.0076)Ala+(-0.0518)Cit+(-0.015
0)Tyr+(0.1438)Ile+(-0.0542)Leu;0.809,0.845,0.794,0.797,0.819,0.758,0.
759,0.783,(3.8872)+(-0.0010)Gly+(0.0153)Thr+(-0.0271)Arg+(0.0018)Pro+
(0.0758)Phe+(-0.1809)Trp;0.809,0.843,0.745,0.729,0.721,0.811,0.792,0.
763,(-4.6178)+(0.0524)Ser+(-0.0073)Ala+(-0.3960)Met+(-0.0113)Orn+(0.0
713)Ile+(0.0891)Phe;0.809,0.841,0.795,0.772,0.812,0.837,0.791,0.803,(
7.6283)+(0.0056)Gly+(-0.0978)His+(0.0303)Tyr+(-0.1005)Met+(0.0276)Leu
+(-0.1128)Trp;0.809,0.837,0.769,0.768,0.747,0.796,0.800,0.778,(2.2332
)+(0.0086)Gln+(-0.1576)His+(0.0034)Pro+(-0.0440)Tyr+(-0.0030)Val+(0.0
984)Phe;0.809,0.836,0.756,0.733,0.733,0.835,0.808,0.777,(3.9494)+(0.0
059)Gly+(-0.1380)His+(-0.0070)Ala+(-0.0114)Arg+(0.0470)Ile+(0.0660)Ph
e;0.809,0.832,0.757,0.735,0.735,0.824,0.816,0.777,(3.1075)+(0.0006)Gl
y+(0.0071)Gln+(-0.1416)His+(0.0002)Thr+(0.0958)Ile+(-0.0376)Leu;0.809
,0.845,0.784,0.781,0.795,0.759,0.788,0.781,(2.5163)+(0.0029)Gln+(0.01

03)Thr+(-0.0307)Arg+(0.0399)Ile+(0.0553)Phe+(-0.1919)Trp;0.809,0.843,0.825,0.834,0.832,0.840,0.777,0.821,(5.2775)+(0.0015)Gly+(0.0069)Gln+(-0.0723)Cit+(0.0107)Pro+(-0.1271)Met+(-0.1437)Trp;0.809,0.839,0.789,0.789,0.782,0.857,0.758,0.796,(3.2412)+(0.0348)Ser+(-0.0798)Asn+(0.0098)Gln+(-0.1363)His+(-0.0205)Arg+(0.0049)Lys;0.809,0.837,0.782,0.756,0.772,0.840,0.830,0.799,(3.6292)+(-0.0573)Asn+(0.0103)Gln+(-0.1485)His+(0.0116)Orn+(-0.0053)Lys+(0.0433)Ile;0.809,0.832,0.728,0.684,0.737,0.824,0.756,0.750,(3.7174)+(0.0464)Ser+(-0.0046)Gly+(-0.1480)His+(0.0060)Thr+(-0.0113)Lys+(0.0244)Leu;0.809,0.846,0.816,0.824,0.829,0.783,0.791,0.807,(4.5774)+(-0.0634)Asn+(0.0017)Gly+(-0.0129)Arg+(0.0145)Orn+(0.0760)Phe+(-0.1540)Trp;0.809,0.833,0.778,0.768,0.759,0.850,0.793,0.792,(3.2700)+(0.0360)Ser+(-0.0062)Gly+(0.0067)Gln+(-0.1420)His+(-0.0017)Ala+(-0.0073)Tyr;0.809,0.843,0.811,0.811,0.817,0.840,0.775,0.811,(7.3743)+(0.0144)Thr+(-0.0068)Ala+(-0.0771)Cit+(0.0129)Pro+(-0.0022)Tyr+(-0.1493)Trp;0.809,0.842,0.750,0.749,0.722,0.828,0.756,0.764,(-1.1924)+(0.0509)Ser+(-0.1528)Asn+(-0.0372)Arg+(0.1684)Ile+(-0.1033)Leu+(0.0883)Phe;0.809,0.839,0.789,0.802,0.770,0.815,0.779,0.791,(-1.2964)+(0.0597)Ser+(-0.1120)Asn+(-0.0048)Gly+(-0.0149)Val+(-0.2570)Met+(0.1354)Phe;0.809,0.835,0.738,0.734,0.693,0.809,0.795,0.758,(1.6526)+(-0.0992)Cit+(-0.0724)Tyr+(-0.0513)Val+(0.0408)Orn+(0.1434)Ile+(0.0693)Phe;0.809,0.843,0.772,0.746,0.762,0.833,0.817,0.790,(5.9495)+(-0.0949)His+(-0.0097)Tyr+(-0.1432)Met+(0.0261)Orn+(0.1270)Ile+(-0.0501)Leu;0.809,0.842,0.764,0.769,0.766,0.751,0.758,0.761,(3.4955)+(0.0187)Thr+(-0.0270)Arg+(-0.0451)Tyr+(0.0420)Ile+(0.0787)Phe+(-0.1776)Trp;0.809,0.849,0.812,0.825,0.822,0.783,0.779,0.802,(3.9669)+(0.0003)Gly+(-0.0206)Arg+(-0.0089)Val+(0.0199)Orn+(0.0844)Phe+(-0.1555)Trp;0.809,0.847,0.803,0.811,0.796,0.774,0.818,0.800,(4.0813)+(-0.0128)Arg+(-0.0245)Tyr+(-0.0245)Val+(0.0401)Leu+(0.0981)Phe+(-0.1594)Trp;0.809,0.840,0.814,0.

816,0.822,0.836,0.774,0.812,(4.3477)+(0.0362)Ser+(-0.0061)Gly+(0.0033)Gln+(-0.0623)Cit+(-0.0094)Arg+(-0.1533)Trp;0.809,0.839,0.708,0.653,0.723,0.824,0.740,0.735,(2.3386)+(0.0414)Ser+(-0.0017)Gly+(-0.1463)His+(-0.0547)Cit+(0.0245)Orn+(0.0493)Ile;0.809,0.839,0.788,0.778,0.743,0.856,0.857,0.809,(5.3893)+(-0.0294)Asn+(-0.0021)Arg+(-0.0505)Val+(-0.2317)Met+(0.1991)Ile+(-0.0146)Leu;0.809,0.834,0.765,0.750,0.699,0.852,0.880,0.795,(3.5616)+(0.0030)Thr+(-0.0134)Ala+(-0.0781)Cit+(0.0078)Pro+(-0.0499)Val+(0.1750)Ile;0.809,0.845,0.794,0.808,0.784,0.780,0.790,0.791,(3.3926)+(0.0146)Thr+(-0.0061)Ala+(-0.0340)Tyr+(0.0033)Leu+(0.0939)Phe+(-0.1648)Trp;0.809,0.843,0.820,0.818,0.778,0.891,0.863,0.838,(2.3147)+(0.0068)Gln+(-0.0093)Ala+(-0.0876)Cit+(-0.1933)Met+(0.1915)Ile+(-0.0808)Leu;0.809,0.842,0.750,0.730,0.726,0.811,0.810,0.769,(-4.3425)+(0.0573)Ser+(-0.0047)Gly+(-0.0072)Ala+(-0.3874)Met+(0.0654)Ile+(0.0828)Phe;0.809,0.839,0.828,0.845,0.828,0.842,0.776,0.823,(5.5623)+(-0.0034)Gly+(0.0051)Gln+(0.0244)Thr+(-0.0017)Ala+(-0.1815)Met+(-0.1457)Trp;0.809,0.836,0.784,0.770,0.763,0.833,0.830,0.799,(3.8255)+(-0.0571)Asn+(0.0105)Gln+(-0.1430)His+(-0.0004)Pro+(-0.0226)Tyr+(0.0493)Ile;0.809,0.846,0.801,0.805,0.8
10,0.753,0.806,0.793,(2.6703)+(-0.0017)Gly+(0.0019)Gln+(0.0047)Thr+(0.0008)Pro+(0.0634)Phe+(-0.1817)Trp;0.809,0.843,0.804,0.816,0.804,0.835,0.746,0.800,(4.9383)+(0.0389)Ser+(-0.0937)Asn+(-0.0121)Arg+(0.0003)Val+(0.0055)Lys+(-0.1349)Trp;0.809,0.840,0.793,0.797,0.808,0.783,0.758,0.787,(4.1136)+(0.0036)Gly+(-0.0913)Cit+(-0.0237)Tyr+(0.0053)Leu+(0.1015)Phe+(-0.1690)Trp;0.809,0.837,0.797,0.784,0.811,0.813,0.793,0.800,(8.2138)+(-0.0803)His+(-0.0377)Cit+(0.0072)Pro+(0.0053)Val+(0.0074)Lys+(-0.1195)Trp;0.809,0.836,0.765,0.747,0.755,0.839,0.777,0.780,(3.2670)+(0.0351)Ser+(-0.0067)Gly+(0.0056)Gln+(-0.1454)His+(-0.0199)Tyr+(0.0236)Orn;0.809,0.843,0.760,0.756,0.752,0.797,0.757,0.766,(3.2019)+(

0.0273)Ser+(0.0057)Pro+(-0.0151)Tyr+(-0.0227)Val+(0.0445)Leu+(-0.1552)Trp;0.809,0.840,0.788,0.781,0.797,0.814,0.768,0.790,(7.9381)+(0.0035)Gly+(-0.0920)His+(-0.0030)Arg+(0.0069)Pro+(0.0064)Val+(-0.1061)Trp;0.809,0.838,0.804,0.794,0.795,0.832,0.830,0.812,(2.2653)+(-0.0722)Asn+(0.0137)Gln+(-0.1547)His+(-0.0377)Cit+(-0.0123)Arg+(0.0858)Phe;0.809,0.840,0.782,0.766,0.760,0.835,0.829,0.798,(2.2764)+(0.0082)Gln+(-0.1647)His+(-0.0051)Ala+(0.0137)Orn+(0.0024)Leu+(0.0708)Phe;0.809,0.835,0.764,0.733,0.752,0.821,0.826,0.783,(1.7190)+(0.0096)Gln+(-0.1676)His+(-0.0487)Cit+(-0.0045)Pro+(0.0394)Ile+(0.0559)Phe;0.809,0.841,0.753,0.722,0.783,0.848,0.702,0.764,(4.1872)+(0.0405)Ser+(-0.1175)His+(-0.0655)Cit+(0.0050)Val+(-0.1365)Met+(0.0455)Orn;0.809,0.841,0.810,0.794,0.841,0.831,0.769,0.809,(6.9684)+(-0.1046)Cit+(0.0098)Tyr+(-0.0949)Met+(0.0508)Orn+(0.0125)Leu+(-0.1558)Trp;0.809,0.839,0.795,0.794,0.789,0.866,0.762,0.803,(3.4835)+(0.0353)Ser+(-0.0787)Asn+(0.0100)Gln+(-0.1269)His+(-0.0278)Cit+(-0.0136)Arg;0.809,0.836,0.789,0.772,0.756,0.860,0.855,0.811,(6.3884)+(-0.0100)Asn+(-0.0774)His+(-0.0081)Ala+(-0.0526)Cit+(0.1413)Ile+(-0.0543)Leu;0.809,0.843,0.790,0.793,0.781,0.762,0.821,0.789,(4.3439)+(-0.0551)Asn+(0.0008)Pro+(-0.0327)Tyr+(0.0411)Ile+(0.0707)Phe+(-0.1604)Trp;0.809,0.839,0.742,0.707,0.769,0.842,0.708,0.756,(4.4178)+(0.0419)Ser+(-0.0777)Asn+(-0.1155)His+(-0.0652)Cit+(0.0055)Pro+(0.0434)Orn;0.809,0.844,0.785,0.789,0.786,0.866,0.716,0.789,(3.6521)+(0.0283)Ser+(0.0084)Gln+(-0.1347)His+(0.0195)Thr+(-0.0216)Arg+(-0.1548)Met;0.809,0.835,0.714,0.670,0.721,0.822,0.739,0.738,(2.5324)+(0.0442)Ser+(-0.1415)His+(-0.0288)Cit+(-0.0135)Arg+(-0.0007)Pro+(0.0595)Ile;0.809,0.847,0.831,0.838,0.826,0.812,0.838,0.829,(4.7946)+(-0.0646)Asn+(-0.0053)Ala+(0.0146)Orn+(0.0009)Lys+(0.0788)Phe+(-0.1469)Trp;0.809,0.843,0.813,0.813,0.811,0.833,0.801,0.815,(5.0821)+(0.0483)Ser+(-0.0936)Asn+(-0.0072)Gly+(0.0027)Tyr+(0.0011)Val+(-0.1369)Trp;0.809,

0.843,0.796,0.791,0.799,0.778,0.812,0.795,(4.0816)+(-0.0571)Asn+(0.0026)Gly+(-0.0131)Arg+(0.0413)Ile+(0.0615)Phe+(-0.1685)Trp;0.809,0.841,0.794,0.795,0.807,0.774,0.779,0.789,(4.6637)+(-0.0875)Cit+(0.0070)Pro+(-0.0314)Tyr+(0.0013)Leu+(0.0996)Phe+(-0.1655)Trp;0.809,0.838,0.804,0.793,0.786,0.826,0.853,0.814,(5.8476)+(-0.0426)Asn+(-0.0085)Ala+(0.0052)Pro+(0.0085)Orn+(0.0584)Ile+(-0.1475)Trp;0.809,0.832,0.760,0.743,0.747,0.845,0.768,0.776,(2.5776)+(0.0309)Ser+(0.0062)Gln+(-0.1558)His+(-0.0011)Thr+(-0.0036)Ala+(0.0077)Val;0.809,0.833,0.764,0.742,0.758,0.828,0.789,0.779,(3.3215)+(0.0100)Gln+(-0.1654)His+(0.0115)Thr+(-0.0251)Arg+(-0.0030)Pro+(0.0475)Ile;0.809,0.839,0.764,0.743,0.749,0.833,0.801,0.782,(5.3348)+(0.0242)Asn+(0.0044)Gly+(-0.0987)His+(-0.1876)Met+(0.1349)Ile+(-0.0469)Leu;0.809,0.839,0.765,0.746,0.775,0.813,0.762,0.774,(3.2223)+(0.0066)Gly+(-0.1383)His+(-0.2141)Met+(0.0165)Orn+(0.0058)Lys+(0.1210)Phe;0.809,0.837,0.773,0.761,0.748,0.830,0.814,0.788,(2.1874)+(0.0015)Gly+(0.0075)Gln+(-0.1679)His+(0.0078)Thr+(-0.0049)Ala+(0.0795)Phe;0.809,0.843,0.797,0.792,0.808,0.834,0.759,0.798,(8.0701)+(0.0024)Gly+(-0.0861)His+(-0.0052)Arg+(-0.0301)Met+(0.0391)Orn+(-0.0942)Trp;0.809,0.840,0.845,0.849,0.845,0.848,0.834,0.844,(5.6309)+(-0.0669)Asn+(0.0083)Gln+(-0.0036)Ala+(-0.0762)Cit+(0.0191)Leu+(-0.1522)Trp;0.809,0.838,0.741,0.707,0.731,0.805,0.808,0.763,(3.6135)+(-0.1208)His+(0.0074)Thr+(-0.0507)Cit+(0.1090)Ile+(-0.0580)Leu+(0.0760)Phe;0.809,0.837,0.784,0.765,0.750,0.858,0.855,0.807,(6.1346)+(-0.0789)His+(-0.0094)Ala+(-0.0554)Cit+(0.0046)Pro+(0.1367)Ile+(-0.0532)Leu;0.809,0.846,0.791,0.814,0.781,0.744,0.785,0.781,(2.4562)+(0.0028)Gln+(0.0044)Pro+(-0.0413)Tyr+(-0.0037)Leu+(0.0892)Phe+(-0.1644)Trp;0.809,0.842,0.783,0.777,0.739,0.853,0.843,0.803,(4.2252)+(0.0023)Gly+(-0.0085)Arg+(-0.0575)Val+(-0.3006)Met+(0.0098)Lys+(0.1931)Ile;0.809,0.838,0.768,0.743,0.739,0.857,0.830,0.792,(5.9599)+(-0.1227)Asn+(-0.0863)Cit+(-0.05

63)Val+(0.0591)Orn+(-0.0066)Lys+(0.1653)Ile;0.809,0.837,0.765,0.763,0.744,0.796,0.793,0.774,(2.0570)+(0.0010)Gly+(0.0085)Gln+(-0.1616)His+(0.0028)Pro+(-0.0444)Tyr+(0.0952)Phe;0.809,0.830,0.742,0.705,0.730,0.836,0.794,0.766,(3.6606)+(0.0449)Ser+(-0.0043)Gly+(-0.1375)His+(-0.0035)Ala+(-0.0167)Val+(0.0473)Leu;0.809,0.841,0.805,0.799,0.817,0.821,0.782,0.805,(5.3482)+(0.0034)Gln+(0.0119)Thr+(-0.0779)Cit+(-0.0172)Val+(0.0411)Leu+(-0.1741)Trp;0.809,0.843,0.783,0.775,0.787,0.746,0.825,0.783,(2.3340)+(-0.0004)Gly+(0.0020)Gln+(-0.0087)Orn+(0.0421)Ile+(0.0482)Phe+(-0.1910)Trp;0.809,0.841,0.797,0.785,0.813,0.828,0.772,0.799,(6.9929)+(0.0199)Thr+(-0.0742)Cit+(-0.0199)Val+(-0.0093)Lys+(0.0511)Leu+(-0.1662)Trp;0.809,0.842,0.774,0.746,0.765,0.836,0.825,0.793,(5.6335)+(-0.0988)His+(-0.1721)Met+(0.0219)Orn+(0.0061)Lys+(0.1291)Ile+(-0.0531)Leu;0.809,0.840,0.813,0.802,0.842,0.838,0.759,0.810,(7.1930)+(-0.1039)Cit+(0.0015)Arg+(0.0101)Tyr+(-0.0843)Met+(0.0547)Orn+(-0.1454)Trp;0.809,0.837,0.763,0.739,0.776,0.829,0.750,0.774,(6.9782)+(-0.1184)His+(0.0431)Thr+(-0.0079)Arg+(-0.0331)Val+(-0.2514)Met+(0.0770)Leu;0.809,0.835,0.758,0.767,0.703,0.850,0.784,0.776,(1.2409)+(0.0323)Ser+(-0.0095)Ala+(-0.0334)Arg+(-0.0279)Tyr+(0.1922)Ile+(-0.0913)Leu;0.809,0.842,0.769,0.739,0.761,0.833,0.818,0.788,(5.5153)+(0.0275)Asn+(-0.1004)His+(-0.1846)Met+(0.0235)Orn+(0.1303)Ile+(-0.0502)Leu;0.809,0.840,0.743,0.721,0.745,0.780,0.767,0.753,(1.8913)+(0.0311)Ser+(-0.0015)Gln+(-0.0020)Pro+(-0.0046)Orn+(0.0571)Ile+(-0.1746)Trp;0.809,0.836,0.761,0.737,0.709,0.859,0.862,0.792,(3.2923)+(-0.0139)Ala+(-0.1077)Cit+(0.0069)Pro+(-0.0507)Val+(0.0436)Orn+(0.1679)Ile;0.809,0.841,0.798,0.805,0.811,0.788,0.759,0.791,(4.1670)+(0.0034)Gly+(-0.0903)Cit+(0.0007)Arg+(-0.0234)Tyr+(0.1058)Phe+(-0.1649)Trp;0.809,0.838,0.792,0.777,0.804,0.835,0.776,0.798,(8.1668)+(0.0060)Gly+(-0.0842)His+(-0.0026)Ala+(-0.0474)Cit+(0.0312)Leu+(-0.1166)Trp;0.809,0.845,0.810,0.812,0.808,0.818

,0.803,0.810,(4.6198)+(-0.0937)Asn+(0.0058)Gln+(0.0163)Thr+(-0.0207)Arg+(0.0478)Ile+(-0.1645)Trp;0.809,0.842,0.780,0.782,0.763,0.834,0.767,0.787,(3.5377)+(0.0303)Ser+(-0.0069)Ala+(0.0111)Pro+(0.0019)Val+(-0.0046)Lys+(-0.1423)Trp;0.809,0.837,0.824,0.832,0.838,0.848,0.756,0.818,(8.4802)+(-0.0705)Asn+(0.0235)Thr+(-0.0029)Ala+(-0.0671)Cit+(0.0027)Lys+(-0.1426)Trp;0.809,0.834,0.738,0.699,0.748,0.833,0.753,0.758,(3.9675)+(0.0427)Ser+(-0.0051)Gly+(-0.1357)His+(0.0053)Pro+(0.0250)Orn+(-0.0073)Lys;0.809,0.834,0.765,0.752,0.735,0.827,0.815,0.782,(3.6235)+(-0.0003)Gly+(0.0073)Gln+(-0.1292)His+(-0.0278)Tyr+(0.1036)Ile+(-0.0384)Leu;0.809,0.844,0.754,0.743,0.752,0.796,0.758,0.762,(3.2608)+(0.0295)Ser+(-0.0015)Gln+(0.0050)Pro+(-0.0244)Val+(0.0466)Leu+(-0.1581)Trp;0.809,0.841,0.850,0.865,0.847,0.865,0.804,0.845,(5.9980)+(-0.0739)Asn+(0.0019)Gly+(0.0084)Gln+(-0.0016)Ala+(-0.0714)Cit+(-0.1371)Trp;0.809,0.836,0.761,0.746,0.750,0.847,0.761,0.776,(3.0302)+(0.0283)Ser+(0.0052)Gln+(-0.1461)His+(-0.0028)Thr+(-0.0030)Ala+(0.0233)Orn;0.809,0.847,0.813,0.819,0.825,0.770,0.804,0.805,(3.7275)+(-0.0078)Arg+(0.0077)Pro+(-0.2295)Met+(0.0066)Lys+(0.1055)Phe+(-0.1488)Trp;0.809,0.843,0.757,0.731,0.785,0.856,0.698,0.768,(4.5792)+(0.0383)Ser+(-0.1103)His+(-0.0675)Cit+(-0.1201)Met+(0.0510)Orn+(-0.0015)Lys;0.809,0.840,0.779,0.778,0.749,0.816,0.818,0.790,(2.3745)+(0.0086)Gln+(-0.1546)His+(-0.0042)Ala+(0.0059)Pro+(-0.0392)Tyr+(0.0941)Phe;0.809,0.836,0.721,0.678,0.727,0.830,0.744,0.745,(3.5061)+(0.0384)Ser+(-0.1407)His+(-0.0206)Val+(0.0266)Orn+(-0.0111)Lys+(0.0516)Leu;0.809,0.834,0.764,0.744,0.738,0.831,0.821,0.784,(3.2138)+(0.0005)Gly+(0.0073)Gln+(-0.1405)His+(-0.0043)Pro+(0.1043)Ile+(-0.0394)Leu;0.809,0.831,0.727,0.681,0.729,0.827,0.772,0.752,(3.3862)+(0.0415)Ser+(-0.0049)Gly+(-0.1444)His+(-0.0217)Val+(0.0231)Orn+(0.0465)Leu;0.809,0.845,0.804,0.789,0.818,0.831,0.794,0.808,(8.0977)+(-0.0895)His+(0.0131)Tyr+(0.0047)Val+(-0.0576)Met+(0.0331)

Orn+(-0.1048)Trp;0.809,0.839,0.795,0.803,0.808,0.813,0.730,0.789,(6.0875)+(0.0213)Thr+(0.0072)Pro+(0.0076)Tyr+(-0.2087)Met+(0.0121)Orn+(-0.1433)Trp;0.809,0.838,0.809,0.808,0.832,0.833,0.741,0.804,(5.7526)+(0.0043)Gln+(-0.1086)Cit+(-0.0080)Arg+(-0.0086)Tyr+(0.0520)Orn+(-0.1594)Trp;0.809,0.834,0.778,0.766,0.763,0.847,0.788,0.791,(3.3090)+(0.0372)Ser+(-0.0066)Gly+(0.0070)Gln+(-0.1424)His+(-0.0080)Tyr+(-0.0040)Lys;0.809,0.834,0.753,0.736,0.753,0.835,0.741,0.766,(2.3245)+(0.0341)Ser+(0.0078)Gln+(-0.1603)His+(-0.0217)Arg+(-0.0115)Tyr+(0.0198)Leu;0.809,0.841,0.758,0.746,0.753,0.852,0.731,0.771,(4.4019)+(0.0455)Ser+(-0.1079)His+(-0.0040)Ala+(-0.0102)Arg+(0.0160)Pro+(-0.1315)Met;0.809,0.839,0.789,0.767,0.798,0.815,0.811,0.798,(8.3852)+(-0.0784)His+(-0.0354)Cit+(0.0076)Pro+(-0.0163)Val+(0.0474)Leu+(-0.1177)Trp;0.809,0.838,0.732,0.690,0.749,0.833,0.734,0.752,(3.8258)+(0.0444)Ser+(-0.0612)Asn+(-0.1371)His+(0.0234)Orn+(-0.0071)Lys+(0.0207)Leu;0.809,0.843,0.780,0.774,0.764,0.833,0.793,0.791,(3.2494)+(0.0265)Ser+(-0.0057)Ala+(-0.0246)Val+(0.0180)Orn+(0.0523)Leu+(-0.1520)Trp;0.809,0.836,0.793,0.789,0.800,0.814,0.775,0.794,(7.9282)+(-0.0207)Asn+(0.0037)Gly+(-0.0954)His+(0.0063)Val+(0.0104)Lys+(-0.1091)Trp;0.809,0.840,0.784,0.777,0.779,0.860,0.757,0.794,(3.6446)+(0.0331)Ser+(-0.0977)Asn+(0.0087)Gln+(-0.1279)His+(0.0084)Thr+(-0.0408)Cit;0.809,0.839,0.751,0.723,0.721,0.812,0.842,0.775,(4.3450)+(-0.1006)His+(-0.0272)Cit+(-0.0141)Arg+(-0.0398)Val+(0.1267)Ile+(0.0731)Phe;0.809,0.837,0.794,0.793,0.825,0.826,0.712,0.789,(7.0295)+(0.0108)Thr+(-0.1068)Cit+(-0.0081)Arg+(-0.0112)Tyr+(0.0522)Orn+(-0.1582)Trp;0.809,0.842,0.784,0.799,0.785,0.742,0.771,0.774,(3.6990)+(-0.0030)Gly+(0.0151)Thr+(-0.0477)Tyr+(-0.0025)Leu+(0.0920)Phe+(-0.1663)Trp;0.809,0.839,0.712,0.661,0.730,0.826,0.727,0.736,(2.5024)+(0.0416)Ser+(-0.1432)His+(-0.0461)Cit+(-0.0136)Arg+(0.0248)Orn+(0.0515)Ile;0.809,0.834,0.747,0.7

29,0.730,0.819,0.780,0.765,(5.8998)+(-0.1016)His+(0.0130)Thr+(-0.0443)Cit+(-0.0349)Tyr+(0.1152)Ile+(-0.0431)Leu;0.809,0.843,0.835,0.838,0.843,0.842,0.805,0.832,(5.2440)+(0.0071)Gln+(-0.0715)Cit+(0.0097)Pro+(0.0165)Tyr+(-0.1487)Met+(-0.1481)Trp;0.809,0.843,0.785,0.760,0.786,0.827,0.821,0.798,(4.3050)+(-0.1119)His+(-0.0292)Val+(-0.2046)Met+(0.0314)Orn+(0.0463)Leu+(0.1075)Phe;0.809,0.835,0.794,0.783,0.821,0.812,0.754,0.792,(6.8510)+(0.0157)Thr+(-0.0837)Cit+(0.0047)Pro+(-0.0080)Lys+(0.0170)Leu+(-0.1706)Trp;0.809,0.834,0.712,0.677,0.719,0.800,0.731,0.732,(0.9670)+(0.0436)Ser+(-0.1588)His+(0.0019)Thr+(-0.0346)Cit+(-0.0025)Val+(0.0974)Phe;0.809,0.830,0.728,0.696,0.720,0.822,0.761,0.750,(2.2810)+(0.0325)Ser+(0.0045)Gln+(-0.1584)His+(0.0031)Pro+(-0.0160)Val+(0.0400)Leu;0.809,0.845,0.821,0.828,0.832,0.790,0.801,0.812,(3.5392)+(0.0024)Gly+(-0.0038)Arg+(-0.2026)Met+(0.0030)Leu+(0.1120)Phe+(-0.1442)Trp;0.809,0.845,0.779,0.768,0.773,0.801,0.807,0.787,(3.2988)+(0.0365)Ser+(-0.0081)Gly+(-0.0246)Val+(0.0147)Orn+(0.0448)Leu+(-0.1573)Trp;0.809,0.832,0.759,0.739,0.720,0.829,0.841,0.782,(3.7246)+(-0.0000)Gly+(0.0057)Gln+(-0.1226)His+(-0.0028)Pro+(-0.0296)Val+(0.1168)Ile;0.809,0.831,0.759,0.743,0.746,0.804,0.799,0.773,(2.2388)+(0.0076)Gln+(-0.1712)His+(0.0075)Thr+(-0.0001)Pro+(-0.0049)Val+(0.0788)Phe;0.809,0.842,0.811,0.812,0.819,0.835,0.773,0.810,(4.2993)+(0.0352)Ser+(-0.0058)Gly+(0.0026)Gln+(-0.0688)Cit+(-0.0021)Tyr+(-0.1543)Trp;0.809,0.846,0.833,0.851,0.821,0.806,0.834,0.828,(4.9442)+(-0.0568)Asn+(-0.0032)Ala+(-0.0183)Tyr+(-0.0051)Val+(0.1040)Phe+(-0.1363)Trp;0.809,0.838,0.768,0.752,0.777,0.806,0.761,0.774,(3.2282)+(0.0047)Asn+(0.0072)Gly+(-0.1390)His+(-0.2263)Met+(0.0079)Lys+(0.1299)Phe;0.809,0.836,0.753,0.737,0.740,0.848,0.752,0.769,(4.7040)+(0.0433)Ser+(-0.0625)Asn+(-0.1113)His+(-0.0051)Ala+(0.0134)Pro+(-0.0066)Tyr;0.809,0.842,0.794,0.796,0.807,0.775,0.778,0.789,(4.6549)+(-0.0877)Cit+(0.0006)Arg+(0.0072)Pro+(-0.031

6)Tyr+(0.1006)Phe+(-0.1647)Trp;0.809,0.842,0.860,0.862,0.869,0.866,0.830,0.857,(5.7676)+(-0.0593)Asn+(0.0090)Gln+(-0.0683)Cit+(0.0235)Tyr+(-0.0892)Met+(-0.1426)Trp;0.809,0.841,0.829,0.835,0.836,0.835,0.792,0.825,(5.2549)+(0.0071)Gln+(-0.0728)Cit+(0.0098)Pro+(0.0027)Val+(-0.1270)Met+(-0.1480)Trp;0.809,0.835,0.768,0.753,0.701,0.853,0.884,0.798,(3.4816)+(0.0006)Gln+(-0.0134)Ala+(-0.0777)Cit+(0.0080)Pro+(-0.0495)Val+(0.1746)Ile;0.809,0.834,0.733,0.698,0.731,0.840,0.753,0.756,(3.7174)+(0.0401)Ser+(-0.1454)His+(0.0064)Thr+(-0.0042)Ala+(-0.0092)Lys+(0.0286)Leu;0.809,0.847,0.821,0.827,0.833,0.789,0.805,0.813,(3.3804)+(0.0024)Gly+(0.0062)Tyr+(-0.2189)Met+(0.0030)Leu+(0.1101)Phe+(-0.1456)Trp;0.809,0.845,0.825,0.836,0.823,0.807,0.815,0.820,(4.2471)+(-0.0050)Ala+(-0.0185)Arg+(-0.0064)Val+(0.0215)Orn+(0.0885)Phe+(-0.1488)Trp;0.809,0.841,0.781,0.774,0.765,0.835,0.795,0.792,(3.5085)+(0.0320)Ser+(-0.0046)Ala+(-0.0215)Val+(-0.0080)Lys+(0.0553)Leu+(-0.1465)Trp;0.809,0.840,0.814,0.805,0.812,0.819,0.836,0.818,(3.5415)+(0.0057)Gln+(0.0165)Tyr+(-0.2303)Met+(-0.0003)Orn+(0.0647)Ile+(-0.1533)Trp;0.809,0.844,0.822,0.829,0.834,0.792,0.802,0.814,(3.9676)+(-0.0065)Arg+(-0.1961)Met+(0.0143)Orn+(0.0002)Leu+(0.1037)Phe+(-0.1413)Trp;0.809,0.843,0.805,0.816,0.809,0.837,0.748,0.802,(4.8363)+(0.0393)Ser+(-0.0963)Asn+(-0.0125)Arg+(0.0071)Tyr+(0.0051)Lys+(-0.1369)Trp;0.809,0.838,0.765,0.740,0.765,0.853,0.770,0.782,(4.7824)+(0.0444)Ser+(-0.0635)Asn+(-0.0042)Gly+(-0.1181)His+(-0.0025)Ala+(0.0312)Orn;0.809,0.836,0.784,0.762,0.777,0.839,0.815,0.799,(3.4961)+(-0.0517)Asn+(0.0117)Gln+(-0.1517)His+(-0.0180)Arg+(0.0124)Orn+(0.0409)Ile;0.809,0.835,0.739,0.709,0.710,0.820,0.820,0.765,(4.8819)+(0.0010)Gly+(-0.1081)His+(-0.0034)Pro+(-0.0351)Val+(0.0266)Orn+(0.1259)Ile;0.809,0.845,0.772,0.787,0.787,0.744,0.722,0.760,(3.7591)+(0.0199)Thr+(-0.0267)Arg+(0.0042)Pro+(-0.0457)Tyr+(0.0978)Phe+(-0.1692)Trp;0.809,0.843,0.767,0.756,0.758,0.817,0.778,0.777,(2

.1714)+(0.0088)Gln+(-0.1512)His+(-0.0686)Cit+(-0.0506)Tyr+(0.0360)Orn+(0.0971)Phe;0.809,0.841,0.814,0.809,0.815,0.839,0.807,0.818,(9.1027)+(-0.0589)His+(-0.0038)Ala+(-0.0391)Cit+(0.0136)Pro+(-0.0200)Met+(-0.1027)Trp;0.809,0.834,0.761,0.741,0.773,0.800,0.758,0.768,(3.2686)+(0.0117)Asn+(0.0072)Gly+(-0.1313)His+(0.0067)Pro+(-0.2337)Met+(0.1273)Phe;0.809,0.847,0.800,0.803,0.825,0.771,0.761,0.790,(4.1075)+(-0.0012)Gly+(0.0178)Thr+(-0.0246)Arg+(-0.0048)Lys+(0.0806)Phe+(-0.1777)Trp;0.809,0.846,0.761,0.760,0.740,0.814,0.771,0.771,(-2.6860)+(0.0476)Ser+(-0.0007)Gln+(-0.0453)Val+(-0.4093)Met+(0.0682)Leu+(0.1276)Phe;0.809,0.845,0.824,0.831,0.813,0.796,0.846,0.822,(2.6321)+(-0.0006)Gly+(0.0032)Gln+(-0.0069)Ala+(0.0039)Leu+(0.0770)Phe+(-0.1694)Trp;0.809,0.840,0.770,0.734,0.775,0.807,0.826,0.786,(3.6015)+(0.0420)Asn+(-0.1314)His+(-0.2693)Met+(0.0012)Lys+(0.0519)Ile+(0.0974)Phe;0.809,0.838,0.768,0.742,0.762,0.819,0.812,0.784,(1.7727)+(0.0109)Gln+(-0.1739)His+(-0.0244)Arg+(0.0066)Orn+(0.0291)Ile+(0.0554)Phe;0.809,0.835,0.785,0.776,0.776,0.854,0.777,0.796,(3.1023)+(0.0383)Ser+(-0.0058)Gly+(0.0088)Gln+(-0.1468)His+(-0.0222)Arg+(-0.0003)Lys;0.809,0.835,0.764,0.744,0.740,0.831,0.822,0.784,(3.2587)+(0.0073)Gln+(-0.1414)His+(0.0015)Thr+(-0.0044)Pro+(0.1035)Ile+(-0.0390)Leu;0.809,0.834,0.755,0.745,0.733,0.848,0.760,0.772,(3.0133)+(0.0307)Ser+(0.0054)Gln+(-0.1396)His+(-0.0050)Ala+(0.0111)Pro+(-0.0109)Tyr;0.809,0.842,0.797,0.802,0.812,0.802,0.746,0.791,(6.6508)+(-0.0401)Asn+(0.0263)Thr+(0.0064)Pro+(-0.1854)Met+(0.0127)Leu+(-0.1462)Trp;0.809,0.839,0.784,0.765,0.802,0.823,0.769,0.789,(7.6914)+(0.0057)Gly+(-0.0896)His+(-0.0512)Cit+(0.0082)Arg+(0.0292)Leu+(-0.1218)Trp;0.809,0.839,0.829,0.835,0.825,0.847,0.807,0.829,(5.7683)+(0.0058)Gln+(-0.0067)Ala+(-0.0790)Cit+(-0.0029)Arg+(0.0137)Pro+(-0.1496)Trp;0.809,0.837,0.787,0.780,0.771,0.833,0.805,0.797,(1.9491)+(0.0029)Gly+(0.0108)Gln+(-0.1661)His+(-0.0040)Ala+(-0.0227)Arg+(0.0892)Phe

;0.809,0.837,0.780,0.778,0.760,0.811,0.801,0.788,(2.1251)+(0.0100)Gln+(-0.1541)His+(-0.0432)Cit+(-0.0435)Tyr+(-0.0009)Val+(0.1054)Phe;0.809,0.835,0.786,0.769,0.785,0.825,0.804,0.796,(7.9459)+(0.0038)Gly+(-0.0936)His+(-0.0018)Ala+(-0.0152)Val+(0.0517)Leu+(-0.1073)Trp;0.809,0.830,0.751,0.727,0.734,0.851,0.778,0.772,(4.1805)+(0.0447)Ser+(-0.0049)Gly+(-0.1246)His+(-0.0055)Ala+(0.0117)Pro+(-0.0020)Lys;0.809,0.846,0.803,0.793,0.803,0.783,0.842,0.805,(4.4102)+(-0.0557)Asn+(-0.0010)Pro+(-0.0052)Lys+(0.0438)Ile+(0.0581)Phe+(-0.1663)Trp;0.809,0.841,0.786,0.774,0.742,0.850,0.861,0.807,(5.4468)+(-0.0347)Asn+(-0.0010)Arg+(0.0035)Pro+(-0.0551)Val+(-0.2422)Met+(0.1851)Ile;0.809,0.839,0.761,0.735,0.734,0.859,0.819,0.787,(1.3077)+(0.0433)Ser+(-0.1255)Asn+(-0.0139)Ala+(-0.0914)Cit+(0.0095)Pro+(0.0601)Ile;0.809,0.828,0.732,0.701,0.724,0.826,0.762,0.753,(2.3632)+(0.0320)Ser+(0.0047)Gln+(-0.1592)His+(0.0007)Thr+(-0.0155)Val+(0.0413)Leu;0.809,0.841,0.819,0.809,0.826,0.830,0.821,0.821,(7.5574)+(-0.0062)Ala+(-0.0692)Cit+(0.0133)Pro+(-0.0666)Met+(0.0189)Leu+(-0.1435)Trp;0.809,0.838,0.792,0.771,0.803,0.811,0.811,0.799,(8.1084)+(-0.0024)Asn+(-0.0949)His+(0.0052)Pro+(0.0045)Tyr+(0.0207)Leu+(-0.1147)Trp;0.809,0.844,0.753,0.738,0.765,0.846,0.699,0.762,(4.3649)+(0.0341)Ser+(-0.1240)His+(0.0129)Thr+(-0.1671)Met+(0.0265)Orn+(0.0019)Lys;0.809,0.840,0.794,0.777,0.766,0.854,0.852,0.813,(6.4617)+(-0.0805)His+(-0.0055)Ala+(-0.0022)Arg+(-0.1231)Met+(0.1434)Ile+(-0.0524)Leu;0.809,0.840,0.756,0.728,0.738,0.827,0.815,0.777,(4.6972)+(-0.1445)His+(0.0191)Thr+(-0.0074)Ala+(-0.0172)Arg+(0.0424)Ile+(0.0605)Phe;0.809,0.833,0.767,0.750,0.754,0.812,0.805,0.780,(2.0880)+(0.0020)Gly+(0.0089)Gln+(-0.1698)His+(0.0002)Pro+(-0.0069)Lys+(0.0785)Phe;0.809,0.843,0.819,0.826,0.830,0.779,0.804,0.810,(3.5849)+(-0.2169)Met+(0.0101)Orn+(0.0043)Lys+(-0.0009)Leu+(0.1044)Phe+(-0.1448)Trp;0.809,0.835,0.778,0.775,0.759,0.811,0.801,0.787,(2.0717)+(0.0101)Gln+(-0.1563)

His+(-0.0439)Cit+(-0.0445)Tyr+(0.0027)Leu+(0.1012)Phe;0.809,0.846,0.820,0.828,0.809,0.798,0.838,0.818,(2.6204)+(0.0028)Gln+(-0.0070)Ala+(0.0058)Orn+(0.0032)Leu+(0.0746)Phe+(-0.1683)Trp;0.809,0.841,0.780,0.796,0.767,0.822,0.736,0.780,(-1.4381)+(0.0513)Ser+(-0.1256)Asn+(-0.0183)Val+(-0.2506)Met+(0.0223)Orn+(0.1349)Phe;0.809,0.842,0.810,0.808,0.803,0.808,0.828,0.812,(4.5424)+(-0.1072)Asn+(-0.0007)Gly+(0.0050)Gln+(0.0121)Thr+(0.0451)Ile+(-0.1640)Trp;0.809,0.839,0.774,0.760,0.706,0.850,0.896,0.803,(2.0302)+(0.0001)Gln+(-0.0126)Ala+(-0.0768)Cit+(-0.0522)Val+(0.1758)Ile+(0.0508)Phe;0.809,0.834,0.771,0.759,0.767,0.815,0.778,0.780,(2.3472)+(0.0100)Gln+(-0.1730)His+(0.0151)Thr+(-0.0301)Arg+(-0.0062)Val+(0.0908)Phe;0.809,0.844,0.804,0.813,0.802,0.835,0.760,0.803,(4.7197)+(0.0380)Ser+(-0.1023)Asn+(0.0053)Tyr+(0.0001)Val+(0.0025)Lys+(-0.1370)Trp;0.809,0.842,0.767,0.757,0.766,0.813,0.763,0.775,(3.1461)+(0.0302)Ser+(-0.0257)Val+(0.0185)Orn+(-0.0118)Lys+(0.0540)Leu+(-0.1505)Trp;0.809,0.837,0.781,0.761,0.793,0.814,0.784,0.788,(7.3967)+(0.0040)Gly+(-0.1067)His+(0.0096)Tyr+(0.0048)Lys+(0.0229)Leu+(-0.1169)Trp;0.809,0.842,0.811,0.812,0.820,0.840,0.769,0.810,(7.4928)+(0.0157)Thr+(-0.0068)Ala+(-0.0739)Cit+(-0.0054)Arg+(0.0128)Pro+(-0.1497)Trp;0.809,0.835,0.745,0.713,0.733,0.806,0.807,0.765,(1.6050)+(0.0022)Gly+(0.0075)Gln+(-0.1751)His+(0.0028)Orn+(0.0295)Ile+(0.0516)Phe;0.809,0.833,0.760,0.743,0.740,0.813,0.812,0.777,(2.1939)+(0.0016)Gly+(0.0077)Gln+(-0.1666)His+(-0.0147)Val+(0.0229)Leu+(0.0719)Phe;0.809,0.837,0.735,0.696,0.733,0.800,0.798,0.757,(4.5378)+(-0.1544)His+(0.0184)Thr+(-0.0046)Pro+(-0.0123)Lys+(0.0407)Ile+(0.0615)Phe;0.809,0.833,0.759,0.739,0.720,0.831,0.839,0.782,(3.6784)+(0.0057)Gln+(-0.1203)His+(-0.0033)Pro+(-0.0265)Val+(0.1253)Ile+(-0.0108)Leu;0.809,0.830,0.729,0.693,0.726,0.827,0.759,0.751,(2.4336)+(0.0309)Ser+(0.0039)Gln+(-0.1580)His+(-0.0180)Val+(0.0170)Orn+(0.0420)Leu;0.809,0.836,0.770,0.753,0.709,0.85

0,0.885,0.799,(4.4992)+(-0.0124)Ala+(-0.0736)Cit+(0.0081)Pro+(-0.0477)Val+(-0.0091)Lys+(0.1772)Ile;0.809,0.832,0.736,0.717,0.698,0.811,0.812,0.759,(5.5332)+(-0.0005)Gly+(-0.1024)His+(0.0130)Thr+(-0.0293)Tyr+(-0.0327)Val+(0.1278)Ile;0.809,0.830,0.735,0.699,0.731,0.844,0.759,0.758,(3.4278)+(0.0422)Ser+(-0.1330)His+(-0.0076)Ala+(-0.0415)Cit+(0.0101)Pro+(0.0220)Leu;0.809,0.847,0.825,0.832,0.837,0.794,0.803,0.817,(3.5385)+(0.0025)Gly+(-0.0042)Arg+(0.0072)Tyr+(-0.2107)Met+(0.1131)Phe+(-0.1437)Trp;0.809,0.840,0.80

3,0.795,0.808,0.830,0.796,0.807,(6.7202)+(0.0186)Thr+(-0.0052)Ala+(-0.0714)Cit+(-0.0183)Val+(0.0502)Leu+(-0.1645)Trp;0.809,0.837,0.796,0.791,0.779,0.836,0.820,0.806,(2.2877)+(0.0114)Gln+(-0.1624)His+(-0.0036)Ala+(-0.0220)Arg+(-0.0029)Val+(0.0902)Phe;0.809,0.836,0.814,0.822,0.835,0.834,0.735,0.807,(8.1285)+(-0.0762)Asn+(0.0016)Gly+(0.0211)Thr+(-0.0701)Cit+(0.0022)Lys+(-0.1469)Trp;0.809,0.847,0.831,0.837,0.836,0.804,0.824,0.825,(3.8903)+(-0.0029)Ala+(0.0046)Tyr+(-0.1928)Met+(0.0135)Orn+(0.1046)Phe+(-0.1398)Trp;0.809,0.845,0.797,0.813,0.776,0.775,0.813,0.794,(3.6814)+(-0.0074)Ala+(0.0091)Pro+(-0.0291)Tyr+(0.0086)Orn+(0.0866)Phe+(-0.1526)Trp;0.809,0.842,0.801,0.794,0.801,0.776,0.837,0.802,(4.3373)+(-0.0656)Asn+(-0.0011)Pro+(0.0015)Orn+(0.0402)Ile+(0.0545)Phe+(-0.1683)Trp;0.809,0.841,0.812,0.804,0.811,0.821,0.834,0.817,(3.4609)+(0.0007)Gly+(0.0055)Gln+(0.0172)Tyr+(-0.2329)Met+(0.0650)Ile+(-0.1531)Trp;0.809,0.839,0.758,0.742,0.733,0.822,0.804,0.775,(3.7209)+(0.0064)Gln+(-0.1304)His+(-0.0312)Tyr+(0.0160)Orn+(0.1010)Ile+(-0.0389)Leu;0.809,0.829,0.757,0.734,0.754,0.838,0.768,0.774,(2.7103)+(0.0368)Ser+(-0.0047)Gly+(0.0066)Gln+(-0.1482)His+(-0.0315)Cit+(0.0055)Pro;0.809,0.842,0.809,0.801,0.818,0.838,0.788,0.812,(7.7053)+(0.0043)Gly+(-0.0890)His+(0.0316)Tyr+(-0.1125)Met+(0.0144)Lys+(-0.1100)Trp;0.809,0.846,0.761,0.752,0.757,0.809,0.762,0.770,(3.1749)+(0.0315)Ser+(0.004

9)Pro+(-0.0238)Val+(-0.0101)Lys+(0.0507)Leu+(-0.1525)Trp;0.808,0.845,0.764,0.741,0.754,0.848,0.786,0.782,(-0.2928)+(0.0462)Ser+(-0.0091)Ala+(-0.0842)Cit+(0.0012)Arg+(-0.2701)Met+(0.0887)Ile;0.808,0.835,0.757,0.734,0.733,0.834,0.814,0.779,(4.0066)+(0.0071)Gln+(-0.1185)His+(-0.0281)Arg+(-0.0346)Val+(0.0253)Orn+(0.1230)Ile;0.808,0.850,0.807,0.819,0.814,0.767,0.793,0.798,(3.9190)+(-0.0196)Arg+(0.0056)Pro+(-0.0086)Val+(0.0025)Lys+(0.0877)Phe+(-0.1616)Trp;0.808,0.846,0.821,0.842,0.813,0.773,0.817,0.811,(4.7931)+(-0.0733)Asn+(-0.0253)Tyr+(-0.0083)Val+(0.0063)Lys+(0.1020)Phe+(-0.1384)Trp;0.808,0.846,0.819,0.829,0.826,0.777,0.809,0.810,(4.4017)+(-0.0758)Asn+(0.0019)Gly+(0.0020)Lys+(-0.0030)Leu+(0.0813)Phe+(-0.1543)Trp;0.808,0.843,0.827,0.836,0.835,0.780,0.817,0.817,(4.0587)+(-0.0249)Asn+(-0.1956)Met+(0.0070)Lys+(-0.0009)Leu+(0.1071)Phe+(-0.1452)Trp;0.808,0.842,0.790,0.795,0.779,0.765,0.819,0.789,(4.3539)+(-0.0561)Asn+(-0.0325)Tyr+(0.0036)Orn+(0.0409)Ile+(0.0691)Phe+(-0.1596)Trp;0.808,0.841,0.752,0.728,0.776,0.845,0.701,0.762,(5.0508)+(0.0396)Ser+(-0.0695)Asn+(-0.1074)His+(-0.0692)Cit+(-0.0154)Tyr+(0.0519)Orn;0.808,0.834,0.779,0.776,0.708,0.859,0.877,0.805,(3.6943)+(0.0016)Gln+(-0.0105)Ala+(-0.0729)Cit+(-0.0236)Tyr+(-0.0469)Val+(0.1759)Ile;0.808,0.846,0.802,0.802,0.781,0.802,0.845,0.808,(3.9972)+(-0.0080)Ala+(-0.0137)Arg+(-0.0178)Tyr+(0.0569)Ile+(0.0720)Phe+(-0.1621)Trp;0.808,0.839,0.708,0.654,0.724,0.824,0.734,0.734,(2.2443)+(0.0406)Ser+(-0.1437)His+(-0.0042)Thr+(-0.0574)Cit+(0.0269)Orn+(0.0504)Ile;0.808,0.839,0.752,0.751,0.666,0.841,0.870,0.782,(-2.6420)+(0.0384)Ser+(-0.0253)Thr+(-0.0122)Ala+(0.1924)Ile+(-0.1030)Leu+(0.0618)Phe;0.808,0.839,0.775,0.737,0.786,0.812,0.824,0.790,(4.1372)+(-0.1244)His+(0.0009)Pro+(-0.2231)Met+(0.0138)Orn+(0.0432)Ile+(0.0892)Phe;0.808,0.836,0.808,0.806,0.817,0.834,0.775,0.808,(7.0667)+(0.0036)Gly+(-0.0071)Ala+(-0.0820)Cit+(0.0138)Pro+(0.0054)Val+(-0.1471)Trp;0.808,0.830,0.757,0.7

42,0.715,0.825,0.834,0.779,(4.0709)+(-0.0007)Gly+(0.0058)Gln+(-0.1149)His+(-0.0224)Tyr+(-0.0289)Val+(0.1170)Ile;0.808,0.842,0.794,0.774,0.796,0.819,0.824,0.803,(8.3392)+(-0.0787)His+(0.0089)Pro+(-0.0205)Val+(-0.0775)Met+(0.0544)Leu+(-0.1043)Trp;0.808,0.838,0.801,0.791,0.809,0.815,0.796,0.803,(8.3684)+(0.0084)Asn+(-0.0818)His+(0.0083)Pro+(0.0062)Val+(-0.0564)Met+(-0.1045)Trp;0.808,0.843,0.828,0.835,0.837,0.790,0.820,0.820,(4.2862)+(-0.0171)Asn+(-0.0018)Arg+(-0.1818)Met+(0.0023)Leu+(0.1081)Phe+(-0.1423)Trp;0.808,0.832,0.758,0.734,0.755,0.825,0.779,0.773,(3.1540)+(0.0012)Gly+(0.0097)Gln+(-0.1649)His+(0.0103)Thr+(-0.0256)Arg+(0.0446)Ile;0.808,0.833,0.709,0.670,0.710,0.800,0.744,0.731,(0.9402)+(0.0439)Ser+(-0.1567)His+(-0.0302)Cit+(-0.0134)Val+(0.0240)Leu+(0.0883)Phe;0.808,0.847,0.798,0.817,0.794,0.763,0.779,0.788,(4.0454)+(-0.0149)Arg+(0.0074)Pro+(-0.0330)Tyr+(-0.0076)Val+(0.1031)Phe+(-0.1496)Trp;0.808,0.847,0.811,0.817,0.821,0.769,0.807,0.803,(3.5162)+(0.0076)Pro+(-0.0019)Tyr+(-0.2356)Met+(0.0050)Lys+(0.1061)Phe+(-0.1476)Trp;0.808,0.839,0.776,0.762,0.751,0.831,0.827,0.793,(2.3610)+(0.0077)Gln+(-0.1657)His+(0.0076)Thr+(-0.0058)Ala+(0.0034)Pro+(0.0749)Phe;0.808,0.832,0.748,0.726,0.711,0.823,0.831,0.773,(3.6628)+(0.0050)Gln+(-0.1232)His+(0.0041)Thr+(-0.0281)Val+(0.1179)Ile+(-0.0065)Leu;0.808,0.846,0.816,0.826,0.826,0.776,0.798,0.807,(3.1970)+(0.0022)Gly+(-0.2232)Met+(0.0054)Lys+(0.0006)Leu+(0.1111)Phe+(-0.1472)Trp;0.808,0.844,0.800,0.814,0.789,0.780,0.798,0.795,(3.8439)+(-0.0026)Gly+(0.0173)Thr+(-0.0057)Ala+(-0.0375)Tyr+(0.0959)Phe+(-0.1622)Trp;0.808,0.842,0.821,0.818,0.823,0.812,0.832,0.821,(4.8247)+(-0.0064)Ala+(-0.0895)Cit+(0.0029)Arg+(0.0106)Leu+(0.0960)Phe+(-0.1687)Trp;0.808,0.835,0.777,0.764,0.782,0.821,0.769,0.784,(3.8216)+(0.0072)Gly+(-0.1286)His+(-0.0016)Ala+(-0.0011)Arg+(-0.1884)Met+(0.1303)Phe;0.808,0.845,0.792,0.793,0.774,0.812,0.811,0.798,(6.0624)+(-0.0174)Arg+(-0.0010)Pro+(-0.0111)Tyr+(0.153

3)Ile+(-0.0688)Leu+(-0.1318)Trp;0.808,0.844,0.775,0.764,0.772,0.851,0.754,0.785,(2.2947)+(0.0354)Ser+(0.0077)Gln+(-0.1453)His+(0.0092)Val+(-0.1529)Met+(0.0006)Lys;0.808,0.843,0.798,0.804,0.823,0.762,0.757,0.787,(3.9876)+(-0.0011)Gly+(0.0164)Thr+(-0.0269)Arg+(-0.0035)Leu+(0.0804)Phe+(-0.1781)Trp;0.808,0.843,0.830,0.837,0.835,0.840,0.791,0.826,(5.3709)+(0.0071)Gln+(-0.0706)Cit+(0.0005)Arg+(0.0105)Pro+(-0.1261)Met+(-0.1440)Trp;0.808,0.839,0.776,0.792,0.734,0.806,0.801,0.783,(2.7953)+(-0.0737)Asn+(-0.0774)Cit+(-0.0697)Tyr+(0.1682)Ile+(-0.0988)Leu+(0.1103)Phe;0.808,0.838,0.785,0.766,0.785,0.811,0.816,0.795,(8.1406)+(-0.0900)His+(-0.0010)Arg+(0.0068)Pro+(-0.0182)Val+(0.0493)Leu+(-0.1102)Trp;0.808,0.837,0.763,0.738,0.780,0.830,0.748,0.774,(6.9405)+(-0.1145)His+(0.0423)Thr+(-0.0283)Cit+(-0.0318)Val+(-0.2579)Met+(0.0762)Leu;0.808,0.833,0.738,0.720,0.658,0.844,0.876,0.774,(1.7230)+(0.0373)Ser+(-0.0073)Gly+(-0.0039)Gln+(-0.0109)Ala+(-0.0532)Val+(0.1794)Ile;0.808,0.832,0.759,0.744,0.746,0.831,0.778,0.775,(2.9801)+(0.0382)Ser+(-0.0069)Gly+(0.0063)Gln+(-0.1440)His+(0.0076)Pro+(-0.0223)Tyr;0.808,0.850,0.782,0.766,0.790,0.774,0.816,0.786,(3.3930)+(0.0100)Thr+(-0.0036)Pro+(-0.0143)Lys+(0.0504)Ile+(0.0557)Phe+(-0.1802)Trp;0.808,0.849,0.818,0.824,0.825,0.773,0.822,0.811,(4.6691)+(-0.0738)Asn+(0.0038)Pro+(0.0019)Lys+(-0.0050)Leu+(0.0778)Phe+(-0.1548)Trp;0.808,0.849,0.816,0.820,0.825,0.775,0.816,0.809,(4.6407)+(-0.0729)Asn+(0.0026)Pro+(0.0105)Orn+(-0.0006)Lys+(0.0699)Phe+(-0.1557)Trp;0.808,0.845,0.821,0.832,0.831,0.782,0.799,0.811,(4.5442)+(-0.0616)Asn+(0.0022)Gly+(-0.0100)Arg+(-0.0016)Leu+(0.0859)Phe+(-0.1539)Trp;0.808,0.843,0.790,0.778,0.775,0.823,0.827,0.801,(3.6041)+(0.0380)Ser+(-0.0069)Gly+(-0.0044)Ala+(-0.0210)Val+(0.0485)Leu+(-0.1512)Trp;0.808,0.842,0.789,0.792,0.794,0.822,0.748,0.789,(4.2021)+(0.0419)Ser+(-0.0969)Asn+(-0.0100)Arg+(0.0009)Lys+(0.0147)Leu+(-0.1421)Trp;0.808,0.840,0.784,0.772,0.772,0.837,0.801,0.79

5,(2.3809)+(0.0101)Gln+(-0.1711)His+(0.0152)Thr+(-0.0046)Ala+(-0.0280)Arg+(0.0863)Phe;0.808,0.839,0.809,0.806,0.803,0.817,0.827,0.813,(3.7695)+(0.0002)Gly+(0.0056)Gln+(-0.2003)Met+(-0.0014)Lys+(0.0659)Ile+(-0.1483)Trp;0.808,0.839,0.800,0.796,0.771,0.818,0.861,0.811,(3.9868)+(-0.0007)Gly+(0.0030)Gln+(-0.0099)Ala+(0.0047)Pro+(0.0624)Ile+(-0.1632)Trp;0.808,0.834,0.797,0.799,0.739,0.860,0.865,0.816,(4.5538)+(-0.1407)Asn+(0.0068)Gln+(-0.0612)Cit+(-0.0252)Tyr+(-0.0503)Val+(0.1623)Ile;0.808,0.833,0.786,0.778,0.736,0.861,0.860,0.809,(4.4616)+(-0.1838)Asn+(0.0057)Gln+(0.0167)Thr+(-0.0642)Cit+(-0.0555)Val+(0.1670)Ile;0.808,0.833,0.769,0.757,0.749,0.835,0.798,0.784,(3.2553)+(0.0013)Gly+(0.0098)Gln+(-0.1351)His+(-0.0260)Arg+(0.1098)Ile+(-0.0449)Leu;0.808,0.838,0.785,0.803,0.768,0.822,0.747,0.785,(-1.4290)+(0.0526)Ser+(-0.1142)Asn+(-0.0010)Ala+(-0.0147)Val+(-0.2504)Met+(0.1377)Phe;0.808,0.838,0.772,0.762,0.775,0.806,0.767,0.778,(3.2535)+(0.0071)Gly+(-0.1335)His+(-0.0060)Val+(-0.2249)Met+(0.0105)Lys+(0.1393)Phe;0.808,0.841,0.766,0.744,0.770,0.854,0.757,0.781,(4.3444)+(0.0436)Ser+(-0.0046)Gly+(-0.1182)His+(-0.0008)Ala+(-0.1160)Met+(0.0326)Orn;0.808,0.837,0.761,0.740,0.774,0.808,0.757,0.770,(3.2835)+(0.0067)Gly+(-0.1313)His+(0.0056)Pro+(-0.2180)Met+(0.0159)Orn+(0.1186)Phe;0.808,0.848,0.831,0.844,0.835,0.785,0.822,0.822,(5.0021)+(-0.0719)Asn+(-0.0117)Arg+(-0.0092)Val+(0.0078)Lys+(0.0931)Phe+(-0.1457)Trp;0.808,0.847,0.817,0.823,0.825,0.783,0.808,0.810,(4.4297)+(-0.0756)Asn+(0.0015)Gly+(0.0111)Orn+(-0.0003)Lys+(0.0731)Phe+(-0.1543)Trp;0.808,0.843,0.795,0.786,0.810,0.836,0.760,0.798,(8.0659)+(0.0048)Gly+(-0.0746)His+(-0.0451)Cit+(0.0086)Pro+(0.0137)Tyr+(-0.1120)Trp;0.808,0.843,0.822,0.827,0.821,0.812,0.816,0.819,(4.9278)+(-0.0049)Ala+(-0.0858)Cit+(0.0032)Arg+(-0.0145)Tyr+(0.1094)Phe+(-0.1577)Trp;0.808,0.842,0.824,0.829,0.825,0.815,0.816,0.821,(5.0913)+(-0.0047)Ala+(-0.0837)Cit+(-0.0129)Tyr+(-0.0012)Lys+(0.1103)Phe+(-0.

1562)Trp;0.808,0.838,0.749,0.720,0.756,0.836,0.749,0.765,(3.6345)+(0.0482)Ser+(-0.0202)Asn+(-0.1286)His+(-0.0020)Ala+(-0.1333)Met+(0.0310)Leu;0.808,0.837,0.794,0.773,0.810,0.813,0.804,0.800,(8.4262)+(0.0001)Asn+(-0.0801)His+(-0.0395)Cit+(0.0065)Pro+(0.0220)Leu+(-0.1212)Trp;0.808,0.832,0.727,0.683,0.738,0.820,0.757,0.749,(3.4626)+(0.0483)Ser+(-0.0044)Gly+(-0.1446)His+(0.0036)Pro+(-0.0100)Lys+(0.0218)Leu;0.808,0.845,0.795,0.798,0.809,0.750,0.791,0.787,(3.2885)+(-0.0014)Gly+(0.0065)Thr+(0.0015)Pro+(-0.0036)Leu+(0.0679)Phe+(-0.1769)Trp;0.808,0.843,0.809,0.807,0.802,0.818,0.823,0.813,(4.6083)+(-0.0988)Asn+(0.0051)Gln+(0.0132)Thr+(-0.0060)Lys+(0.0490)Ile+(-0.1606)Trp;0.808,0.842,0.808,0.807,0.801,0.809,0.825,0.810,(4.4777)+(-0.1077)Asn+(0.0051)Gln+(0.0121)Thr+(-0.0024)Orn+(0.0463)Ile+(-0.1638)Trp;0.808,0.841,0.812,0.817,0.820,0.794,0.792,0.806,(4.8647)+(-0.0871)Cit+(0.0044)Arg+(-0.0235)Tyr+(-0.0035)Lys+(0.1059)Phe+(-0.1607)Trp;0.808,0.840,0.790,0.778,0.768,0.818,0.845,0.802,(4.8382)+(-0.0007)Gly+(0.0083)Thr+(-0.0099)Ala+(0.0044)Pro+(0.0625)Ile+(-0.1632)Trp;0.808,0.840,0.799,0.810,0.816,0.811,0.722,0.790,(7.2041)+(-0.0018)
Gly+(0.0289)Thr+(-0.0138)Arg+(0.0086)Pro+(-0.1894)Met+(-0.1415)Trp;0.808,0.839,0.778,0.760,0.763,0.830,0.821,0.793,(3.9056)+(-0.0574)Asn+(0.0098)Gln+(-0.1433)His+(-0.0263)Tyr+(0.0145)Orn+(0.0454)Ile;0.808,0.835,0.756,0.742,0.747,0.847,0.746,0.770,(4.7850)+(0.0449)Ser+(-0.0543)Asn+(-0.1116)His+(-0.0050)Ala+(-0.0112)Arg+(0.0131)Pro;0.808,0.849,0.819,0.825,0.823,0.773,0.823,0.811,(2.6635)+(-0.0010)Gly+(0.0032)Gln+(-0.0075)Lys+(0.0009)Leu+(0.0729)Phe+(-0.1726)Trp;0.808,0.839,0.825,0.827,0.825,0.841,0.811,0.826,(5.5234)+(0.0056)Gln+(-0.0075)Ala+(-0.0855)Cit+(0.0129)Pro+(0.0050)Val+(-0.1571)Trp;0.808,0.838,0.745,0.714,0.716,0.822,0.830,0.770,(5.2969)+(-0.1015)His+(-0.0033)Pro+(-0.0357)Val+(0.0301)Orn+(-0.0055)Lys+(0.1302)Ile;0.808,0.834,0.754,0.726,0.734,

0.835,0.814,0.777,(5.5234)+(0.0027)Gly+(-0.1317)His+(0.0139)Thr+(-0.0067)Ala+(-0.0061)Lys+(0.0619)Ile;0.808,0.847,0.800,0.808,0.821,0.765,0.758,0.788,(2.7580)+(0.0031)Gln+(0.0122)Thr+(-0.0303)Arg+(0.0044)Orn+(0.0749)Phe+(-0.1836)Trp;0.808,0.838,0.737,0.695,0.763,0.838,0.719,0.754,(4.0688)+(0.0434)Ser+(-0.0747)Asn+(-0.1255)His+(-0.0619)Cit+(0.0398)Orn+(0.0144)Leu;0.808,0.833,0.751,0.727,0.757,0.838,0.739,0.766,(2.1214)+(0.0345)Ser+(0.0079)Gln+(-0.1603)His+(-0.0254)Cit+(-0.0186)Arg+(0.0190)Leu;0.808,0.831,0.755,0.737,0.715,0.832,0.829,0.779,(5.9942)+(-0.0687)Asn+(0.0038)Gly+(-0.0777)His+(-0.0381)Val+(0.1422)Ile+(-0.0032)Leu;0.808,0.840,0.804,0.807,0.802,0.834,0.776,0.805,(4.3299)+(0.0395)Ser+(-0.0075)Gly+(-0.0035)Ala+(-0.0200)Arg+(0.0244)Orn+(-0.1422)Trp;0.808,0.840,0.798,0.795,0.769,0.818,0.852,0.808,(4.0709)+(0.0030)Gln+(-0.0094)Ala+(0.0052)Pro+(-0.0105)Tyr+(0.0629)Ile+(-0.1594)Trp;0.808,0.839,0.790,0.775,0.808,0.828,0.766,0.794,(8.1322)+(0.0062)Gly+(-0.0838)His+(-0.0440)Cit+(-0.0412)Met+(0.0300)Leu+(-0.1143)Trp;0.808,0.836,0.789,0.786,0.771,0.861,0.779,0.799,(3.3980)+(0.0337)Ser+(-0.0882)Asn+(0.0083)Gln+(-0.1312)His+(-0.0013)Ala+(0.0019)Lys;0.808,0.834,0.759,0.734,0.758,0.837,0.768,0.774,(2.4897)+(0.0365)Ser+(-0.0043)Gly+(0.0071)Gln+(-0.1554)His+(-0.0346)Cit+(0.0058)Val;0.808,0.848,0.831,0.842,0.837,0.785,0.820,0.821,(3.6058)+(0.0066)Tyr+(-0.0078)Val+(-0.2278)Met+(0.0090)Lys+(0.1188)Phe+(-0.1413)Trp;0.808,0.848,0.816,0.823,0.808,0.796,0.827,0.813,(4.1319)+(-0.0080)Ala+(-0.0170)Arg+(0.0096)Pro+(0.0014)Lys+(0.0861)Phe+(-0.1595)Trp;0.808,0.846,0.799,0.794,0.799,0.818,0.801,0.803,(4.4355)+(0.0502)Ser+(-0.1000)Asn+(-0.0070)Gly+(-0.0032)Tyr+(0.0146)Leu+(-0.1442)Trp;0.808,0.840,0.812,0.819,0.821,0.793,0.790,0.806,(4.9145)+(-0.0830)Cit+(-0.0228)Tyr+(-0.0011)Val+(-0.0020)Lys+(0.1067)Phe+(-0.1594)Trp;0.808,0.840,0.750,0.714,0.760,0.846,0.758,0.769,(3.1249)+(0.0486)Ser+(-0.1339)His+(-0.0026)Ala+(0.0186)Tyr+(-

0.1783)Met+(0.0318)Leu;0.808,0.839,0.780,0.746,0.766,0.860,0.840,0.803,(3.5577)+(0.0083)Gln+(-0.1354)His+(-0.0087)Ala+(-0.0774)Cit+(0.0326)Orn+(0.0578)Ile;0.808,0.838,0.806,0.801,0.804,0.827,0.809,0.810,(8.6115)+(-0.0780)His+(-0.0039)Ala+(-0.0025)Arg+(0.0109)Pro+(0.0132)Tyr+(-0.1027)Trp;0.808,0.836,0.784,0.769,0.793,0.817,0.783,0.791,(7.8375)+(-0.0064)Asn+(0.0040)Gly+(-0.0996)His+(0.0013)Arg+(0.0258)Leu+(-0.1101)Trp;0.808,0.835,0.757,0.742,0.762,0.843,0.727,0.768,(2.6785)+(0.0311)Ser+(0.0074)Gln+(-0.1566)His+(-0.0247)Arg+(0.0032)Val+(0.0196)Orn;0.808,0.840,0.838,0.846,0.841,0.839,0.810,0.834,(5.9852)+(-0.0791)Asn+(0.0082)Gln+(-0.0773)Cit+(0.0082)Pro+(-0.0014)Tyr+(-0.1479)Trp;0.808,0.838,0.789,0.774,0.793,0.827,0.795,0.797,(7.8798)+(0.0040)Gly+(-0.0986)His+(-0.0022)Ala+(0.0017)Arg+(0.0280)Leu+(-0.1093)Trp;0.808,0.835,0.762,0.748,0.765,0.850,0.726,0.772,(3.0162)+(0.0303)Ser+(0.0072)Gln+(-0.1497)His+(-0.0238)Arg+(0.0239)Orn+(-0.0017)Lys;0.808,0.838,0.774,0.759,0.752,0.833,0.818,0.791,(2.3294)+(0.0074)Gln+(-0.1668)His+(0.0071)Thr+(-0.0052)Ala+(0.0116)Orn+(0.0739)Phe;0.808,0.835,0.772,0.756,0.743,0.819,0.840,0.790,(5.1068)+(-0.0161)Asn+(-0.1259)His+(-0.0054)Ala+(-0.0383)Tyr+(0.0463)Ile+(0.0786)Phe;0.808,0.836,0.748,0.715,0.738,0.803,0.815,0.768,(1.8381)+(0.0076)Gln+(-0.1767)His+(0.0047)Thr+(0.0019)Orn+(0.0284)Ile+(0.0496)Phe;0.808,0.837,0.758,0.722,0.744,0.835,0.824,0.782,(5.7641)+(-0.1328)His+(0.0141)Thr+(-0.0069)Ala+(0.0197)Orn+(-0.0079)Lys+(0.0562)Ile;0.808,0.836,0.743,0.719,0.746,0.847,0.728,0.760,(4.1173)+(0.0383)Ser+(-0.1281)His+(-0.0058)Ala+(-0.0188)Arg+(0.0107)Pro+(0.0276)Orn;0.808,0.834,0.717,0.682,0.720,0.799,0.743,0.736,(1.0217)+(0.0464)Ser+(-0.0016)Gly+(-0.1573)His+(-0.0311)Cit+(-0.0025)Val+(0.0966)Phe;0.808,0.842,0.744,0.740,0.763,0.785,0.684,0.743,(-2.4153)+(0.0588)Ser+(-0.0814)Asn+(-0.0805)Cit+(0.0103)Pro+(-0.3463)Met+(0.1197)Phe;0.808,0.838,0.792,0.791,0.780,0.851,0.779,0.800,(4.5014)+(0.

0091)Gln+(-0.1327)His+(0.0208)Thr+(-0.0029)Ala+(0.0101)Pro+(-0.1843)Met;0.808,0.835,0.773,0.762,0.710,0.855,0.877,0.801,(3.8985)+(-0.0128)Ala+(-0.0786)Cit+(0.0073)Pro+(-0.0375)Val+(0.1981)Ile+(-0.0360)Leu;0.808,0.834,0.778,0.767,0.752,0.842,0.814,0.794,(3.4163)+(0.0102)Gln+(-0.1340)His+(-0.0251)Arg+(-0.0034)Pro+(0.1163)Ile+(-0.0468)Leu;0.808,0.851,0.813,0.819,0.819,0.772,0.812,0.806,(2.5909)+(0.0028)Gln+(0.0056)Orn+(-0.0081)Lys+(0.0005)Leu+(0.0712)Phe+(-0.1715)Trp;0.808,0.845,0.795,0.801,0.822,0.765,0.745,0.783,(3.7777)+(0.0143)Thr+(-0.0281)Arg+(0.0083)Orn+(-0.0046)Leu+(0.0782)Phe+(-0.1759)Trp;0.808,0.844,0.827,0.839,0.822,0.805,0.820,0.822,(4.0225)+(0.0012)Gly+(-0.0048)Ala+(-0.0144)Arg+(-0.0040)Val+(0.0973)Phe+(-0.1540)Trp;0.808,0.840,0.808,0.796,0.805,0.825,0.832,0.815,(7.1907)+(-0.0073)Ala+(-0.0698)Cit+(0.0134)Pro+(-0.0177)Val+(0.0465)Leu+(-0.1488)Trp;0.808,0.836,0.745,0.724,0.718,0.815,0.804,0.765,(6.0551)+(-0.0907)His+(-0.0189)Arg+(-0.0248)Tyr+(-0.0385)Val+(0.0375)Orn+(0.1364)Ile;0.808,0.835,0.797,0.786,0.808,0.826,0.781,0.801,(8.0099)+(-0.0092)Asn+(0.0040)Gly+(-0.0951)His+(0.0155)Tyr+(0.0076)Val+(-0.1088)Trp;0.808,0.832,0.796,0.790,0.815,0.825,0.753,0.796,(8.4011)+(-0.0050)Asn+(0.0055)Gly+(-0.0808)His+(-0.0464)Cit+(0.0108)Val+(-0.1128)Trp;0.808,0.836,0.790,0.771,0.779,0.842,0.825,0.805,(3.4997)+(-0.0497)Asn+(0.0122)Gln+(-0.1502)His+(-0.0164)Arg+(-0.0011)Lys+(0.0453)Ile;0.808,0.840,0.752,0.720,0.781,0.852,0.705,0.765,(4.9391)+(0.0405)Ser+(-0.0668)Asn+(-0.1096)His+(-0.0696)Cit+(0.0507)Orn+(-0.0044)Lys;0.808,0.839,0.768,0.748,0.787,0.819,0.742,0.774,(3.7047)+(0.0089)Gly+(-0.1271)His+(-0.0417)Cit+(-0.2009)Met+(0.0070)Leu+(0.1282)Phe;0.808,0.837,0.772,0.742,0.779,0.833,0.793,0.787,(2.4504)+(0.0096)Gln+(-0.1563)His+(-0.0724)Cit+(0.0365)Orn+(-0.0129)Lys+(0.0787)Phe;0.808,0.839,0.793,0.793,0.781,0.862,0.767,0.801,(3.0944)+(0.0347)Ser+(-0.0655)Asn+(0.0085)Gln+(-0.1262)His+(-0.1012)Met+(0.0055)Lys;0.808

,0.837,0.756,0.735,0.739,0.817,0.801,0.773,(6.0054)+(-0.0232)Asn+(-0.1026)His+(-0.0328)Tyr+(0.0288)Orn+(0.1114)Ile+(-0.0470)Leu;0.808,0.841,0.781,0.796,0.783,0.739,0.768,0.771,(3.6652)+(-0.0030)Gly+(0.0143)Thr+(-0.0481)Tyr+(0.0039)Orn+(0.0875)Phe+(-0.1674)Trp;0.808,0.840,0.775,0.737,0.786,0.812,0.825,0.790,(4.1316)+(-0.1257)His+(-0.2234)Met+(0.0137)Orn+(0.0011)Lys+(0.0437)Ile+(0.0892)Phe;0.808,0.836,0.742,0.712,0.741,0.839,0.759,0.763,(4.1491)+(0.0425)Ser+(-0.0670)Asn+(-0.1372)His+(0.0086)Thr+(-0.0039)Ala+(0.0243)Leu;0.808,0.836,0.773,0.768,0.705,0.856,0.870,0.800,(4.0052)+(0.0016)Gly+(-0.0104)Ala+(-0.0721)Cit+(-0.0205)Tyr+(-0.0472)Val+(0.1773)Ile;0.808,0.832,0.713,0.675,0.719,0.797,0.740,0.733,(0.9598)+(0.0462)Ser+(-0.0015)Gly+(-0.1609)His+(0.0012)Thr+(-0.0333)Cit+(0.0921)Phe;0.808,0.845,0.753,0.763,0.727,0.806,0.741,0.760,(-2.9033)+(0.0464)Ser+(-0.0060)Ala+(0.0177)Pro+(-0.0148)Val+(-0.3774)Met+(0.1310)Phe;0.808,0.843,0.792,0.783,0.807,0.829,0.759,0.795,(7.9053)+(0.0026)Gly+(-0.0923)His+(-0.0078)Arg+(0.0093)Tyr+(0.0365)Orn+(-0.1003)Trp;0.808,0.841,0.776,0.773,0.758,0.820,0.789,0.785,(2.8290)+(0.0311)Ser+(-0.0036)Thr+(-0.0079)Ala+(0.0101)Pro+(0.0137)Leu+(-0.1525)Trp;0.808,0.841,0.771,0.763,0.708,0.877,0.844,0.798,(1.3759)+(0.0379)Ser+(-0.1292)Asn+(-0.0102)Ala+(0.0075)Orn+(0.1660)Ile+(-0.0784)Leu;0.808,0.843,0.779,0.783,0.764,0.829,0.766,0.786,(3.4021)+(0.0278)Ser+(-0.0005)Gln+(-0.0075)Ala+(0.0104)Pro+(0.0130)Orn+(-0.1459)Trp;0.808,0.842,0.775,0.771,0.761,0.824,0.781,0.784,(3.1026)+(0.0325)Ser+(-0.0076)Ala+(0.0096)Pro+(-0.0082)Lys+(0.0180)Leu+(-0.1493)Trp;0.808,0.835,0.737,0.703,0.743,0.841,0.736,0.756,(3.6734)+(0.0399)Ser+(-0.1429)His+(-0.0045)Ala+(-0.0157)Arg+(0.0246)Orn+(0.0199)Leu;0.808,0.842,0.779,0.768,0.785,0.744,0.819,0.779,(2.4728)+(-0.0009)Gly+(0.0015)Gln+(0.0018)Thr+(0.0390)Ile+(0.0432)Phe+(-0.1900)Trp;0.808,0.836,0.766,0.754,0.771,0.801,0.759,0.771,(3.5101)+(0.0071)Gly+(-0.1224)His+(0.007

8)Pro+(-0.0057)Val+(-0.2221)Met+(0.1342)Phe;0.808,0.847,0.815,0.828,0
.823,0.770,0.793,0.804,(2.6105)+(0.0040)Gln+(-0.0236)Arg+(0.0032)Pro+
(-0.0037)Leu+(0.0780)Phe+(-0.1742)Trp;0.808,0.839,0.795,0.794,0.817,0
.783,0.763,0.789,(3.9954)+(0.0039)Gly+(-0.0938)Cit+(-0.0023)Arg+(0.00
46)Leu+(0.0901)Phe+(-0.1768)Trp;0.808,0.840,0.742,0.718,0.711,0.816,0
.818,0.766,(5.5239)+(-0.0975)His+(-0.0260)Tyr+(-0.0347)Val+(0.0316)Or
n+(-0.0029)Lys+(0.1281)Ile;0.808,0.837,0.752,0.735,0.740,0.851,0.753,
0.770,(4.6950)+(0.0418)Ser+(-0.0689)Asn+(-0.1152)His+(0.0049)Thr+(-0.
0053)Ala+(0.0123)Pro;0.808,0.836,0.813,0.819,0.835,0.834,0.734,0.806,
(8.0735)+(-0.0718)Asn+(0.0018)Gly+(0.0211)Thr+(-0.0728)Cit+(0.0023)Va
l+(-0.1497)Trp;0.808,0.848,0.797,0.802,0.823,0.770,0.750,0.786,(3.896
4)+(0.0169)Thr+(-0.0250)Arg+(-0.0043)Lys+(-0.0014)Leu+(0.0826)Phe+(-0
.1767)Trp;0.808,0.844,0.784,0.769,0.789,0.765,0.828,0.788,(3.3982)+(0
.0005)Gly+(-0.0010)Orn+(-0.0111)Lys+(0.0479)Ile+(0.0558)Phe+(-0.1766)
Trp;0.808,0.843,0.741,0.722,0.720,0.814,0.783,0.760,(-4.2693)+(0.0527
)Ser+(-0.0013)Gln+(-0.0075)Ala+(-0.3884)Met+(0.0677)Ile+(0.0860)Phe;0
.808,0.842,0.806,0.800,0.778,0.826,0.864,0.817,(4.2145)+(0.0037)Gln+(
-0.0095)Ala+(0.0046)Pro+(-0.0081)Lys+(0.0676)Ile+(-0.1565)Trp;0.808,0
.842,0.804,0.808,0.820,0.841,0.734,0.801,(4.1949)+(0.0285)Ser+(0.0028
)Gln+(-0.0707)Cit+(-0.0081)Arg+(0.0044)Tyr+(-0.1557)Trp;0.808,0.841,0
.716,0.674,0.736,0.814,0.713,0.734,(0.9201)+(0.0458)Ser+(-0.1569)His+
(-0.0413)Cit+(-0.0179)Arg+(0.0253)Orn+(0.0925)Phe;0.808,0.840,0.824,0
.840,0.828,0.830,0.768,0.817,(5.4470)+(-0.0035)Gly+(0.0051)Gln+(0.024
2)Thr+(0.0002)Val+(-0.1930)Met+(-0.1477)Trp;0.808,0.839,0.807,0.806,0
.803,0.826,0.803,0.810,(8.7250)+(0.0004)Asn+(-0.0710)His+(-0.0030)Ala
+(0.0122)Pro+(-0.0359)Met+(-0
.0962)Trp;0.808,0.838,0.810,0.822,0.822,0.833,0.738,0.804,(7.2282)+(-
0.0514)Asn+(0.0233)Thr+(-0.0028)Val+(-0.1306)Met+(0.0210)Orn+(-0.1339

)Trp;0.808,0.833,0.799,0.794,0.803,0.830,0.778,0.801,(8.2700)+(-0.0020)Asn+(0.0036)Gly+(-0.0915)His+(-0.0015)Ala+(0.0096)Val+(-0.1035)Trp;0.808,0.831,0.744,0.719,0.745,0.834,0.746,0.761,(2.4294)+(0.0303)Ser+(0.0054)Gln+(-0.1580)His+(-0.0047)Thr+(0.0034)Val+(0.0172)Orn;0.808,0.833,0.766,0.748,0.745,0.812,0.823,0.782,(2.3542)+(0.0081)Gln+(-0.1658)His+(0.0005)Pro+(-0.0153)Val+(0.0234)Leu+(0.0698)Phe;0.808,0.841,0.779,0.741,0.788,0.814,0.836,0.795,(4.0706)+(-0.1179)His+(-0.0415)Cit+(0.0132)Arg+(-0.2352)Met+(0.0506)Ile+(0.0966)Phe;0.808,0.835,0.743,0.717,0.711,0.823,0.822,0.768,(3.7297)+(0.0041)Gln+(-0.1248)His+(0.0031)Thr+(-0.0314)Val+(0.0173)Orn+(0.1124)Ile;0.808,0.834,0.733,0.701,0.704,0.814,0.814,0.759,(4.7291)+(0.0004)Gly+(-0.1127)His+(0.0059)Thr+(-0.0348)Val+(0.0225)Orn+(0.1206)Ile;0.808,0.839,0.761,0.743,0.781,0.808,0.737,0.767,(3.5044)+(0.0089)Gly+(-0.1233)His+(-0.0419)Cit+(0.0068)Pro+(-0.2157)Met+(0.1309)Phe;0.808,0.838,0.804,0.803,0.813,0.835,0.764,0.804,(5.1181)+(0.0397)Ser+(-0.0057)Gly+(-0.0596)Cit+(-0.0052)Arg+(-0.0010)Lys+(-0.1470)Trp;0.808,0.838,0.749,0.717,0.775,0.847,0.710,0.762,(4.7230)+(0.0404)Ser+(-0.0728)Asn+(-0.1130)His+(-0.0670)Cit+(0.0001)Val+(0.0474)Orn;0.808,0.845,0.826,0.834,0.830,0.796,0.818,0.820,(3.7109)+(-0.0029)Ala+(-0.1974)Met+(0.0116)Orn+(0.0042)Lys+(0.1049)Phe+(-0.1424)Trp;0.808,0.842,0.788,0.786,0.757,0.813,0.836,0.798,(-1.7105)+(0.0049)Gln+(-0.0003)Pro+(-0.3688)Met+(0.1780)Ile+(-0.0977)Leu+(0.1090)Phe;0.808,0.839,0.784,0.761,0.808,0.827,0.767,0.791,(7.6755)+(0.0063)Gly+(-0.0920)His+(-0.0488)Cit+(0.0180)Tyr+(0.0275)Leu+(-0.1261)Trp;0.808,0.838,0.766,0.770,0.781,0.804,0.696,0.763,(-1.5525)+(0.0566)Ser+(-0.0818)Asn+(-0.0772)Cit+(-0.2743)Met+(-0.0072)Lys+(0.1245)Phe;0.808,0.838,0.808,0.804,0.802,0.815,0.827,0.812,(3.7291)+(0.0002)Gly+(0.0054)Gln+(-0.2036)Met+(0.0021)Orn+(0.0645)Ile+(-0.1492)Trp;0.808,0.833,0.764,0.740,0.732,0.840,0.837,0.787,(3.9471)+(0.0074)Gln+(-0.1111)

His+(-0.0476)Cit+(-0.0283)Val+(-0.0082)Lys+(0.1211)Ile;0.808,0.841,0.798,0.808,0.818,0.815,0.715,0.789,(6.8417)+(0.0274)Thr+(-0.0143)Arg+(0.0081)Pro+(0.0114)Tyr+(-0.2036)Met+(-0.1435)Trp;0.808,0.840,0.801,0.806,0.788,0.808,0.808,0.803,(4.7821)+(-0.1019)Asn+(0.0050)Gln+(0.0143)Thr+(-0.0227)Tyr+(0.0488)Ile+(-0.1565)Trp;0.808,0.840,0.797,0.791,0.771,0.824,0.846,0.808,(3.9173)+(0.0025)Gln+(0.0064)Thr+(-0.0093)Ala+(-0.0011)Orn+(0.0661)Ile+(-0.1674)Trp;0.808,0.836,0.782,0.750,0.782,0.847,0.817,0.799,(3.5056)+(-0.0711)Asn+(0.0111)Gln+(-0.1405)His+(-0.0639)Cit+(0.0265)Orn+(0.0405)Ile;0.808,0.831,0.726,0.690,0.729,0.823,0.744,0.747,(2.0187)+(0.0313)Ser+(0.0048)Gln+(-0.1678)His+(0.0019)Pro+(0.0099)Orn+(0.0152)Leu;0.808,0.847,0.807,0.816,0.811,0.754,0.814,0.799,(2.5762)+(-0.0011)Gly+(0.0024)Gln+(0.0019)Pro+(-0.0037)Leu+(0.0677)Phe+(-0.1763)Trp;0.808,0.844,0.788,0.789,0.789,0.821,0.759,0.789,(4.0236)+(0.0413)Ser+(-0.1031)Asn+(0.0001)Tyr+(-0.0015)Lys+(0.0158)Leu+(-0.1428)Trp;0.808,0.840,0.853,0.865,0.854,0.859,0.816,0.849,(5.9367)+(-0.0631)Asn+(0.0089)Gln+(-0.0682)Cit+(0.0039)Arg+(-0.0539)Met+(-0.1360)Trp;0.808,0.835,0.746,0.712,0.754,0.838,0.755,0.765,(4.2939)+(0.0410)Ser+(-0.0052)Gly+(-0.1341)His+(0.0014)Thr+(0.0282)Orn+(-0.0067)Lys;0.808,0.837,0.754,0.724,0.754,0.798,0.801,0.769,(5.5418)+(-0.1063)Asn+(-0.1288)His+(0.0286)Thr+(-0.0329)Val+(0.0473)Leu+(0.0876)Phe;0.808,0.839,0.731,0.716,0.729,0.778,0.741,0.741,(4.4497)+(-0.1478)His+(0.0224)Thr+(-0.0570)Tyr+(0.0234)Orn+(-0.0080)Lys+(0.1031)Phe;0.808,0.832,0.753,0.733,0.715,0.823,0.837,0.777,(3.6422)+(-0.0001)Gly+(0.0055)Gln+(-0.1208)His+(-0.0273)Val+(0.1200)Ile+(-0.0089)Leu;0.808,0.844,0.754,0.737,0.768,0.850,0.703,0.764,(4.2998)+(0.0353)Ser+(-0.1244)His+(0.0129)Thr+(0.0097)Tyr+(-0.1773)Met+(0.0258)Orn;0.808,0.838,0.816,0.822,0.838,0.838,0.735,0.808,(8.2186)+(-0.0737)Asn+(0.0016)Gly+(0.0216)Thr+(-0.0704)Cit+(0.0020)Tyr+(-0.1462)Trp;0.808,0.838,0.761,0.743,0.771,

0.796,0.760,0.768,(3.0489)+(0.0074)Gly+(-0.1361)His+(0.0064)Pro+(-0.2423)Met+(0.0074)Lys+(0.1257)Phe;0.808,0.835,0.731,0.699,0.707,0.811,0.811,0.757,(3.3014)+(0.0045)Gly+(-0.1113)His+(-0.0468)Cit+(-0.0348)Val+(0.1159)Ile+(0.0711)Phe;0.808,0.834,0.796,0.792,0.826,0.827,0.720,0.791,(6.8163)+(0.0017)Gly+(-0.1107)Cit+(-0.0033)Arg+(-0.0049)Tyr+(0.0559)Orn+(-0.1543)Trp;0.808,0.830,0.750,0.730,0.732,0.842,0.774,0.769,(4.3002)+(0.0446)Ser+(-0.0053)Gly+(-0.1212)His+(-0.0051)Ala+(0.0126)Pro+(-0.0142)Tyr;0.808,0.846,0.755,0.762,0.727,0.779,0.779,0.762,(-0.4030)+(0.0201)Thr+(-0.0412)Tyr+(-0.3418)Met+(0.1717)Ile+(-0.0941)Leu+(0.1272)Phe;0.808,0.846,0.799,0.813,0.779,0.777,0.819,0.797,(3.7313)+(-0.0074)Ala+(0.0096)Pro+(-0.0277)Tyr+(0.0015)Leu+(0.0902)Phe+(-0.1546)Trp;0.808,0.841,0.785,0.783,0.793,0.804,0.756,0.784,(3.8250)+(0.0415)Ser+(-0.0083)Gly+(-0.0237)Arg+(0.0058)Pro+(0.0163)Orn+(-0.1545)Trp;0.808,0.838,0.765,0.743,0.712,0.853,0.871,0.795,(1.9294)+(-0.0132)Ala+(-0.1070)Cit+(-0.0528)Val+(0.0418)Orn+(0.1682)Ile+(0.0432)Phe;0.808,0.836,0.814,0.800,0.806,0.833,0.855,0.823,(5.7063)+(-0.0002)Asn+(-0.0060)Ala+(0.0220)Tyr+(-0.1612)Met+(0.0741)Ile+(-0.1445)Trp;0.808,0.846,0.824,0.843,0.805,0.794,0.833,0.819,(2.6073)+(0.0040)Gln+(-0.0051)Ala+(-0.0252)Tyr+(-0.0039)Lys+(0.0950)Phe+(-0.1578)Trp;0.808,0.843,0.789,0.777,0.748,0.852,0.862,0.810,(4.3431)+(-0.0070)Arg+(0.0151)Tyr+(-0.0588)Val+(-0.3193)Met+(0.0092)Lys+(0.1947)Ile;0.808,0.842,0.809,0.810,0.820,0.793,0.795,0.804,(4.9598)+(-0.0854)Cit+(-0.0224)Tyr+(-0.0038)Lys+(0.0064)Leu+(0.1010)Phe+(-0.1645)Trp;0.808,0.837,0.785,0.770,0.765,0.835,0.831,0.800,(3.8553)+(-0.0541)Asn+(0.0106)Gln+(-0.1418)His+(-0.0217)Tyr+(-0.0023)Lys+(0.0500)Ile;0.808,0.837,0.791,0.782,0.808,0.815,0.763,0.792,(6.3307)+(0.0009)Gly+(0.0150)Thr+(-0.0740)Cit+(-0.0190)Val+(0.0452)Leu+(-0.1700)Trp;0.808,0.837,0.793,0.783,0.773,0.815,0.847,0.804,(4.8711)+(0.0003)Gly+(-0.0096)Ala+(0.0050)Pro+(0.0040)Orn+(0

.0620)Ile+(-0.1570)Trp;0.808,0.837,0.809,0.802,0.825,0.835,0.775,0.80
9,(7.2592)+(0.0209)Thr+(-0.0055)Ala+(-0.0805)Cit+(-0.0081)Lys+(0.0256
)Leu+(-0.1637)Trp;0.808,0.836,0.803,0.796,0.789,0.826,0.834,0.811,(5.
6632)+(-0.0077)Asn+(0.0023)Gly+(-0.0055)Ala+(-0.1307)Met+(0.0753)Ile+
(-0.1386)Trp;0.808,0.833,0.773,0.750,0.753,0.843,0.822,0.792,(3.3780)
+(0.0091)Gln+(-0.1260)His+(-0.0546)Cit+(-0.0068)Lys+(0.1081)Ile+(-0.0
392)Leu;0.808,0.841,0.813,0.804,0.812,0.818,0.835,0.817,(3.5677)+(0.0
056)Gln+(0.0016)Pro+(0.0152)Tyr+(-0.2324)Met+(0.0630)Ile+(-0.1529)Trp
;0.808,0.839,0.820,0.839,0.821,0.840,0.755,0.814,(5.1581)+(0.0046)Gln
+(0.0214)Thr+(-0.0018)Ala+(-0.1824)Met+(0.0022)Lys+(-0.1457)Trp;0.808
,0.842,0.801,0.791,0.814,0.831,0.781,0.804,(8.3494)+(-0.0115)Asn+(-0.
0863)His+(-0.0056)Arg+(0.0071)Tyr+(0.0377)Orn+(-0.1001)Trp;0.808,0.83
6,0.803,0.804,0.807,0.826,0.775,0.803,(8.0138)+(0.0032)Gly+(-0.0859)H
is+(0.0002)Ala+(-0.0672)Met+(0.0149)Lys+(-0.1015)Trp;0.808,0.839,0.77
1,0.754,0.787,0.822,0.747,0.777,(3.6458)+(0.0086)Gly+(-0.1259)His+(-0
.0456)Cit+(0.0061)Arg+(-0.2013)Met+(0.1352)Phe;0.808,0.835,0.763,0.74
5,0.717,0.824,0.863,0.788,(3.8769)+(-0.1840)Asn+(0.0208)Thr+(-0.0630)
Val+(-0.0070)Lys+(0.1696)Ile+(0.0695)Phe;0.808,0.834,0.753,0.737,0.74
8,0.838,0.743,0.767,(2.7198)+(0.0314)Ser+(0.0065)Gln+(-0.1555)His+(-0
.0091)Tyr+(0.0078)Val+(-0.0062)Lys;0.808,0.835,0.773,0.769,0.754,0.80
7,0.797,0.782,(2.0890)+(0.0099)Gln+(-0.1546)His+(-0.0445)Cit+(0.0034)
Pro+(-0.0475)Tyr+(0.1021)Phe;0.808,0.834,0.746,0.734,0.667,0.856,0.85
9,0.779,(1.0864)+(0.0303)Ser+(-0.0032)Thr+(-0.0102)Ala+(-0.0481)Val+(
-0.0169)Lys+(0.1775)Ile;0.808,0.843,0.779,0.778,0.772,0.760,0.814,0.7
81,(3.6387)+(-0.0000)Gly+(-0.0342)Tyr+(-0.0087)Lys+(0.0486)Ile+(0.071
4)Phe+(-0.1666)Trp;0.808,0.841,0.791,0.775,0.799,0.806,0.806,0.797,(6
.1126)+(-0.0803)Cit+(0.0014)Arg+(0.0020)Pro+(-0.0098)Tyr+(0.0612)Ile+
(-0.1691)Trp;0.808,0.839,0.828,0.833,0.843,0.855,0.764,0.824,(8.5535)

+(-0.0678)Asn+(0.0236)Thr+(-0.0031)Ala+(-0.0680)Cit+(0.0064)Tyr+(-0.1432)Trp;0.808,0.839,0.809,0.805,0.803,0.817,0.828,0.813,(3.7933)+(0.0055)Gln+(-0.1999)Met+(0.0029)Orn+(-0.0017)Lys+(0.0650)Ile+(-0.1480)Trp;0.808,0.837,0.816,0.820,0.838,0.833,0.746,0.809,(8.2121)+(-0.0713)Asn+(0.0217)Thr+(-0.0698)Cit+(0.0017)Val+(0.0011)Lys+(-0.1503)Trp;0.808,0.835,0.812,0.827,0.824,0.821,0.741,0.803,(7.3343)+(-0.0517)Asn+(0.0250)Thr+(-0.0014)Val+(-0.1404)Met+(0.0062)Lys+(-0.1406)Trp;0.808,0.834,0.766,0.754,0.737,0.828,0.817,0.784,(3.6254)+(0.0073)Gln+(-0.1298)His+(-0.0022)Pro+(-0.0257)Tyr+(0.1074)Ile+(-0.0392)Leu;0.808,0.850,0.817,0.824,0.822,0.773,0.819,0.810,(2.7484)+(-0.0012)Gly+(0.0030)Gln+(0.0063)Orn+(-0.0080)Lys+(0.0701)Phe+(-0.1708)Trp;0.808,0.846,0.798,0.805,0.808,0.753,0.793,0.790,(2.4641)+(0.0018)Gln+(0.0039)Thr+(0.0009)Orn+(-0.0032)Leu+(0.0683)Phe+(-0.1788)Trp;0.808,0.839,0.794,0.769,0.810,0.815,0.808,0.801,(8.1935)+(-0.0820)His+(-0.0438)Cit+(0.0066)Arg+(0.0060)Pro+(0.0229)Leu+(-0.1232)Trp;0.808,0.832,0.741,0.711,0.735,0.835,0.766,0.762,(4.3768)+(0.0471)Ser+(-0.0820)Asn+(-0.1198)His+(-0.0248)Val+(-0.0026)Lys+(0.0594)Leu;0.808,0.835,0.764,0.744,0.757,0.815,0.796,0.778,(2.1369)+(0.0018)Gly+(0.0083)Gln+(-0.1692)His+(0.0138)Orn+(-0.0082)Lys+(0.0743)Phe;0.808,0.835,0.766,0.747,0.778,0.810,0.761,0.774,(3.4727)+(0.0123)Asn+(0.0072)Gly+(-0.1357)His+(-0.2180)Met+(0.0068)Leu+(0.1247)Phe;0.808,0.841,0.777,0.742,0.783,0.810,0.835,0.792,(4.0524)+(-0.1251)His+(0.0045)Arg+(-0.2356)Met+(0.0019)Lys+(0.0475)Ile+(0.0945)Phe;0.808,0.838,0.763,0.730,0.741,0.835,0.847,0.788,(4.4122)+(-0.1364)His+(-0.0078)Ala+(0.0022)Pro+(0.0164)Orn+(0.0400)Ile+(0.0504)Phe;0.808,0.837,0.770,0.769,0.753,0.811,0.783,0.779,(1.8845)+(0.0025)Gly+(0.0094)Gln+(-0.1559)His+(-0.0469)Cit+(-0.0423)Tyr+(0.1062)Phe;0.808,0.837,0.781,0.778,0.767,0.855,0.764,0.791,(3.5815)+(0.0321)Ser+(-0.0937)Asn+(0.0080)Gln+(-0.1333)His+(0.0066)Thr+(-0.0044)Tyr;0.808,0.8

33,0.711,0.671,0.719,0.796,0.741,0.732,(0.8934)+(0.0467)Ser+(-0.0014)Gly+(-0.1617)His+(-0.0331)Cit+(0.0035)Leu+(0.0884)Phe;0.808,0.832,0.793,0.792,0.719,0.874,0.889,0.819,(4.2466)+(-0.1321)Asn+(0.0020)Gly+(0.0039)Gln+(-0.0073)Ala+(-0.0538)Val+(0.1763)Ile;0.808,0.846,0.837,0.843,0.843,0.806,0.831,0.831,(4.1329)+(-0.0026)Ala+(-0.0031)Arg+(0.0080)Tyr+(-0.1874)Met+(0.1116)Phe+(-0.1416)Trp;0.808,0.836,0.806,0.796,0.796,0.825,0.839,0.814,(5.8410)+(-0.0080)Asn+(-0.0056)Ala+(-0.1294)Met+(0.0126)Orn+(0.0696)Ile+(-0.1393)Trp;0.808,0.834,0.783,0.768,0.784,0.820,0.795,0.792,(8.0297)+(-0.0127)Asn+(0.0039)Gly+(-0.0924)His+(-0.0165)Val+(0.0517)Leu+(-0.1065)Trp;0.808,0.841,0.750,0.713,0.743,0.869,0.777,0.776,(1.1244)+(0.0353)Ser+(-0.0138)Ala+(-0.1355)Cit+(0.0490)Orn+(-0.0288)Lys+(0.0745)Ile;0.808,0.838,0.819,0.833,0.823,0.825,0.766,0.812,(5.3130)+(-0.0035)Gly+(0.0046)Gln+(0.0220)Thr+(-0.1944)Met+(0.0132)Orn+(-0.1471)Trp;0.808,0.838,0.851,0.863,0.852,0.851,0.813,0.845,(5.7387)+(-0.0657)Asn+(0.0087)Gln+(-0.0647)Cit+(-0.0687)Met+(0.0064)Lys+(-0.1396)Trp;0.808,0.834,0.768,0.754,0.766,0.814,0.778,0.778,(2.1344)+(0.0104)Gln+(-0.1785)His+(0.0137)Thr+(-0.0291)Arg+(-0.0020)Leu+(0.0808)Phe;0.808,0.842,0.777,0.778,0.772,0.794,0.773,0.779,(3.6359)+(0.0388)Ser+(-0.0093)Gly+(0.0066)Pro+(-0.0267)Tyr+(0.0138)Orn+(-0.1487)Trp;0.808,0.837,0.763,0.743,0.724,0.838,0.843,0.787,(3.9082)+(0.0062)Gln+(-0.1183)His+(-0.0027)Pro+(-0.0291)Val+(-0.0062)Lys+(0.1199)Ile;0.808,0.845,0.815,0.829,0.826,0.774,0.785,0.803,(2.6915)+(0.0038)Gln+(-0.0246)Arg+(0.0102)Orn+(-0.0040)Leu+(0.0754)Phe+(-0.1717)Trp;0.808,0.838,0.766,0.748,0.779,0.813,0.755,0.773,(3.5609)+(0.0066)Gly+(-0.1322)His+(-0.0035)Arg+(-0.1933)Met+(0.0203)Orn+(0.1192)Phe;0.808,0.836,0.786,0.767,0.752,0.858,0.852,0.807,(6.1058)+(-0.0815)His+(-0.0083)Ala+(-0.0531)Cit+(0.0016)Lys+(0.1411)Ile+(-0.0546)Leu;0.808,0.845,0.739,0.700,0.757,0.840,0.731,0.757

,(3.2334)+(0.0459)Ser+(-0.1355)His+(-0.1621)Met+(0.0231)Orn+(-0.0033)Lys+(0.0280)Leu;0.808,0.831,0.797,0.801,0.721,0.870,0.893,0.821,(4.5934)+(-0.1227)Asn+(0.0044)Gln+(-0.0068)Ala+(-0.0155)Tyr+(-0.0525)Val+(0.1746)Ile;0.808,0.831,0.756,0.738,0.716,0.832,0.831,0.779,(6.0354)+(-0.0688)Asn+(0.0038)Gly+(-0.0782)His+(-0.0007)Pro+(-0.0390)Val+(0.1409)Ile;0.808,0.842,0.815,0.819,0.810,0.794,0.829,0.813,(3.5915)+(0.0001)Gly+(-0.0066)Ala+(0.0096)Orn+(0.0030)Leu+(0.0749)Phe+(-0.1622)Trp;0.808,0.831,0.764,0.751,0.721,0.827,0.843,0.785,(6.6100)+(-0.0523)Asn+(-0.0727)His+(-0.0164)Tyr+(-0.0368)Val+(0.1456)Ile+(-0.0064)Leu;0.808,0.841,0.812,0.816,0.812,0.834,0.787,0.812,(5.2418)+(0.0493)Ser+(-0.0840)Asn+(-0.0072)Gly+(-0.0085)Arg+(0.0017)Val+(-0.1345)Trp;0.808,0.840,0.789,0.778,0.767,0.818,0.843,0.802,(4.7309)+(0.0077)Thr+(-0.0099)Ala+(0.0044)Pro+(0.0000)Orn+(0.0628)Ile+(-0.1630)Trp;0.808,0.835,0.751,0.718,0.750,0.847,0.773,0.772,(3.9666)+(0.0404)Ser+(-0.0044)Gly+(-0.1380)His+(-0.0037)Ala+(0.0040)Val+(0.0247)Orn;0.808,0.837,0.793,0.785,0.802,0.806,0.789,0.795,(8.0780)+(-0.0913)His+(-0.0078)Arg+(0.0071)Pro+(0.0032)Val+(0.0103)Lys+(-0.1125)Trp;0.808,0.831,0.732,0.697,0.734,0.825,0.753,0.752,(1.9930)+(0.0325)Ser+(0.0052)Gln+(-0.1659)His+(-0.0042)Thr+(0.0125)Orn+(0.0163)Leu;0.808,0.833,0.731,0.694,0.718,0.827,0.788,0.757,(4.8118)+(0.0027)Gly+(-0.0996)His+(-0.0678)Cit+(-0.0352)Val+(0.0434)Orn+(0.1233)Ile;0.808,0.847,0.765,0.738,0.758,0.850,0.789,0.784,(-0.6068)+(0.0479)Ser+(-0.0096)Ala+(-0.0853)Cit+(0.0145)Tyr+(-0.2931)Met+(0.0894)Ile;0.808,0.845,0.827,0.847,0.814,0.799,0.821,0.820,(2.6364)+(0.0049)Gln+(-0.0049)Ala+(-0.0184)Arg+(-0.0220)Tyr+(0.0976)Phe+(-0.1596)Trp;0.808,0.836,0.769,0.742,0.764,0.823,0.816,0.786,(1.6343)+(0.0115)Gln+(-0.1692)His+(-0.0368)Cit+(-0.0185)Arg+(0.0337)Ile+(0.0590)Phe;0.808,0.834,0.742,0.721,0.726,0.808,0.785,0.760,(5.3801)+(0.0015)Gly+(-0.1120)His+(-0.0325)Tyr+(0.0260)Orn+(0.1093)Ile+(-0.0444

)Leu;0.808,0.845,0.829,0.843,0.835,0.781,0.812,0.818,(3.8351)+(-0.0081)Arg+(-0.0080)Val+(-0.2097)Met+(0.0109)Lys+(0.1205)Phe+(-0.1404)Trp;0.808,0.845,0.819,0.827,0.831,0.782,0.800,0.810,(3.1630)+(0.0023)Gly+(0.0056)Tyr+(-0.2315)Met+(0.0055)Lys+(0.1104)Phe+(-0.1480)Trp;0.808,0.844,0.740,0.719,0.740,0.800,0.749,0.752,(-3.7575)+(0.0588)Ser+(-0.0593)Asn+(-0.3543)Met+(-0.0142)Lys+(0.0584)Ile+(0.0960)Phe;0.808,0.842,0.785,0.778,0.777,0.861,0.762,0.795,(2.5424)+(0.0337)Ser+(0.0077)Gln+(-0.1372)His+(0.0221)Tyr+(-0.1753)Met+(0.0031)Lys;0.808,0.836,0.781,0.776,0.768,0.855,0.766,0.791,(3.4657)+(0.0325)Ser+(-0.0947)Asn+(0.0080)Gln+(-0.1350)His+(0.0057)Thr+(0.0002)Lys;0.808,0.832,0.761,0.748,0.765,0.842,0.726,0.770,(2.6410)+(0.0314)Ser+(0.0081)Gln+(-0.1595)His+(0.0038)Thr+(-0.0245)Arg+(0.0054)Val;0.808,0.832,0.762,0.765,0.710,0.831,0.812,0.779,(6.3479)+(-0.1314)Asn+(0.0266)Thr+(-0.0224)Arg+(-0.0341)Tyr+(-0.0584)Val+(0.1794)Ile;0.808,0.831,0.755,0.738,0.715,0.831,0.831,0.779,(5.9341)+(-0.0775)Asn+(0.0039)Gly+(-0.0795)His+(-0.0397)Val+(0.0039)Lys+(0.1388)Ile;0.808,0.847,0.823,0.830,0.830,0.785,0.814,0.815,(4.7029)+(-0.0750)Asn+(0.0132)Orn+(0.0007)Lys+(-0.0048)Leu+(0.0744)Phe+(-0.1510)Trp;0.808,0.843,0.833,0.840,0.827,0.805,0.847,0.830,(4.7719)+(-0.0611)Asn+(-0.0051)Ala+(0.0023)Lys+(0.0020)Leu+(0.0847)Phe+(-0.1509)Trp;0.808,0.839,0.809,0.817,0.817,0.789,0.787,0.803,(4.7572)+(-0.0836)Cit+(0.0015)Arg+(-0.0246)Tyr+(-0.0015)Val+(0.1057)Phe+(-0.1608)Trp;0.808,0.838,0.819,0.831,0.829,0.831,0.755,0.812,(4.8346)+(0.0046)Gln+(0.0208)Thr+(0.0176)Tyr+(-0.2202)Met+(0.0023)Lys+(-0.1524)Trp;0.808,0.835,0.766,0.754,0.736,0.829,0.817,0.784,(3.6521)+(0.0075)Gln+(-0.1287)His+(-0.0260)Tyr+(-0.0023)Lys+(0.1032)Ile+(-0.0373)Leu;0.808,0.834,0.815,0.829,0.823,0.829,0.749,0.808,(7.3420)+(-0.0499)Asn+(0.0252)Thr+(-0.0015)Ala+(-0.1332)Met+(0.0057)Lys+(-0.1405)Trp;0.808,0.834,0.783,0.770,0.718,0.867,0.891,0.811,(3.5853)+(0.0027)Gln+(-0.0109)

Ala+(-0.0759)Cit+(-0.0462)Val+(-0.0116)Lys+(0.1800)Ile;0.808,0.829,0.763,0.749,0.720,0.828,0.845,0.786,(6.6483)+(-0.0538)Asn+(-0.0736)His+(0.0004)Pro+(-0.0160)Tyr+(-0.0388)Val+(0.1409)Ile;0.808,0.844,0.834,0.841,0.831,0.808,0.840,0.830,(4.9338)+(-0.0486)Asn+(-0.0049)Ala+(-0.0079)Arg+(0.0032)Leu+(0.0883)Phe+(-0.1504)Trp;0.808,0.841,0.803,0.794,0.811,0.834,0.790,0.807,(8.3182)+(-0.0869)His+(-0.0018)Ala+(-0.0066)Arg+(0.0103)Tyr+(0.0383)Orn+(-0.1000)Trp;0.808,0.838,0.826,0.838,0.834,0.831,0.774,0.819,(5.2580)+(-0.0030)Gly+(0.0050)Gln+(0.0236)Thr+(0.0143)Tyr+(-0.2133)Met+(-0.1513)Trp;0.808,0.843,0.805,0.815,0.809,0.840,0.747,0.803,(4.8273)+(0.0400)Ser+(-0.0901)Asn+(-0.0101)Arg+(0.0084)Tyr+(0.0010)Val+(-0.1348)Trp;0.808,0.840,0.782,0.776,0.783,0.800,0.780,0.785,(3.5189)+(0.0413)Ser+(-0.0090)Gly+(0.0049)Pro+(0.0150)Orn+(-0.0093)Lys+(-0.1489)Trp;0.808,0.838,0.791,0.771,0.800,0.810,0.810,0.798,(8.1386)+(-0.0015)Asn+(-0.0940)His+(-0.0000)Arg+(0.0056)Pro+(0.0209)Leu+(-0.1134)Trp;0.807,0.838,0.770,0.753,0.787,0.820,0.742,0.775,(3.7328)+(0.0042)Asn+(0.0086)Gly+(-0.1254)His+(-0.0410)Cit+(-0.1967)Met+(0.1348)Phe;0.807,0.830,0.755,0.738,0.742,0.801,0.791,0.768,(2.1035)+(0.0013)Gly+(0.0073)Gln+(-0.1716)His+(0.0069)Thr+(-0.0047)Val+(0.0801)Phe;0.807,0.843,0.794,0.798,0.820,0.759,0.754,0.783,(3.9274)+(-0.0011)Gly+(0.0150)Thr+(-0.0277)Arg+(0.0071)Orn+(0.0733)Phe+(-0.1795)Trp;0.807,0.846,0.834,0.846,0.826,0.808,0.834,0.828,(2.7115)+(0.0047)Gln+(-0.0059)Ala+(-0.0197)Arg+(-0.0004)Lys+(0.0888)Phe+(-0.1655)Trp;0.807,0.845,0.818,0.816,0.814,0.812,0.839,0.820,(4.8483)+(-0.0059)Ala+(-0.0800)Cit+(-0.0148)Val+(0.0341)Leu+(0.0965)Phe+(-0.1654)Trp;0.807,0.839,0.776,0.740,0.784,0.810,0.833,0.792,(4.0532)+(-0.1231)His+(0.0050)Arg+(0.0014)Pro+(-0.2357)Met+(0.0468)Ile+(0.0947)Phe;0.807,0.835,0.772,0.774,0.700,0.831,0.874,0.795,(2.1229)+(-0.0101)Ala+(-0.0287)Arg+(-0.0444)Val+(0.2093)Ile+(-0.0446)Leu+(0.0628)Phe;0.807,0.832,0.708,0.668,

0.716,0.797,0.731,0.728,(0.8335)+(0.0445)Ser+(-0.1626)His+(0.0009)Thr+(-0.0358)Cit+(0.0036)Leu+(0.0893)Phe;0.807,0.845,0.815,0.831,0.798,0.786,0.829,0.811,(2.5340)+(0.0035)Gln+(-0.0056)Ala+(-0.0262)Tyr+(0.0034)Leu+(0.0898)Phe+(-0.1626)Trp;0.807,0.845,0.790,0.794,0.816,0.758,0.747,0.779,(3.7066)+(0.0137)Thr+(-0.0279)Arg+(0.0016)Pro+(0.0061)Orn+(0.0737)Phe+(-0.1798)Trp;0.807,0.838,0.834,0.840,0.840,0.842,0.797,0.830,(5.4119)+(-0.0813)Asn+(0.0029)Gly+(0.0080)Gln+(-0.0818)Cit+(0.0157)Leu+(-0.1561)Trp;0.807,0.845,0.793,0.782,0.771,0.823,0.845,0.805,(5.2583)+(0.0118)Thr+(-0.0096)Ala+(0.0040)Pro+(-0.0092)Lys+(0.0681)Ile+(-0.1571)Trp;0.807,0.844,0.814,0.817,0.814,0.838,0.789,0.815,(5.3011)+(0.0491)Ser+(-0.0866)Asn+(-0.0071)Gly+(-0.0088)Arg+(0.0063)Tyr+(-0.1340)Trp;0.807,0.835,0.768,0.753,0.766,0.814,0.780,0.778,(2.1213)+(0.0104)Gln+(-0.1796)His+(0.0139)Thr+(-0.0289)Arg+(-0.0008)Pro+(0.0792)Phe;0.807,0.840,0.757,0.732,0.737,0.814,0.826,0.777,(3.8606)+(-0.1109)His+(-0.0497)Cit+(-0.0055)Pro+(0.1259)Ile+(-0.0646)Leu+(0.0810)Phe;0.807,0.836,0.737,0.706,0.709,0.817,0.820,0.763,(5.0695)+(0.0011)Gly+(-0.1031)His+(-0.0352)Val+(0.0277)Orn+(-0.0057)Lys+(0.1259)Ile;0.807,0.845,0.807,0.822,0.793,0.787,0.813,0.804,(4.2059)+(-0.0071)Ala+(-0.0143)Arg+(0.0104)Pro+(-0.0239)Tyr+(0.0961)Phe+(-0.1510)Trp;0.807,0.842,0.788,0.798,0.778,0.761,0.801,0.784,(2.4491)+(0.0040)Gln+(-0.0216)Arg+(-0.0348)Tyr+(0.0430)Ile+(0.0716)Phe+(-0.1755)Trp;0.807,0.836,0.772,0.750,0.764,0.818,0.811,0.786,(2.2938)+(0.0089)Gln+(-0.1690)His+(0.0141)Orn+(-0.0087)Lys+(0.0017)Leu+(0.0704)Phe;0.807,0.835,0.743,0.713,0.714,0.823,0.824,0.769,(5.0051)+(-0.1050)His+(-0.0037)Pro+(-0.0332)Val+(0.0270)Orn+(0.1328)Ile+(-0.0081)Leu;0.807,0.849,0.807,0.807,0.805,0.779,0.826,0.805,(4.0432)+(-0.0153)Arg+(-0.0260)Val+(-0.0006)Lys+(0.0420)Leu+(0.0863)Phe+(-0.1663)Trp;0.807,0.845,0.826,0.835,0.818,0.801,0.833,0.822,(3.7238)+(0.0005)Gly+(-0.0053)Ala+(-0.0039)Val+(-0.0012)Ly

s+(0.0907)Phe+(-0.1557)Trp;0.807,0.844,0.802,0.826,0.797,0.757,0.782,0.790,(2.5461)+(0.0044)Gln+(-0.0209)Arg+(0.0049)Pro+(-0.0364)Tyr+(0.0915)Phe+(-0.1656)Trp;0.807,0.842,0.791,0.791,0.775,0.815,0.806,0.797,(5.7266)+(0.0011)Gly+(-0.0194)Arg+(-0.0019)Pro+(0.1546)Ile+(-0.0699)Leu+(-0.1363)Trp;0.807,0.839,0.712,0.671,0.725,0.815,0.719,0.733,(0.9383)+(0.0411)Ser+(-0.1543)His+(-0.0584)Cit+(-0.0055)Val+(0.0320)Orn+(0.0935)Phe;0.807,0.837,0.778,0.769,0.737,0.853,0.836,0.799,(4.5737)+(0.0023)Gly+(-0.0054)Arg+(-0.0489)Val+(-0.2640)Met+(0.2043)Ile+(-0.0191)Leu;0.807,0.834,0.757,0.731,0.736,0.839,0.812,0.780,(5.7525)+(-0.0422)Asn+(0.0037)Gly+(-0.1290)His+(0.0154)Thr+(-0.0066)Ala+(0.0586)Ile;0.807,0.834,0.769,0.755,0.720,0.830,0.869,0.793,(3.6750)+(-0.1940)Asn+(0.0195)Thr+(-0.0044)Pro+(-0.0639)Val+(0.1726)Ile+(0.0709)Phe;0.807,0.832,0.754,0.734,0.728,0.834,0.805,0.775,(4.0392)+(0.0073)Gln+(-0.1226)His+(0.0133)Thr+(-0.0319)Arg+(-0.0333)Val+(0.1249)Ile;0.807,0.845,0.831,0.837,0.840,0.793,0.821,0.823,(4.3074)+(-0.0172)Asn+(-0.0020)Arg+(0.0037)Tyr+(-0.1853)Met+(0.

1093)Phe+(-0.1415)Trp;0.807,0.844,0.821,0.839,0.803,0.786,0.833,0.815,(2.6813)+(-0.0012)Gly+(0.0038)Gln+(-0.0052)Ala+(-0.0275)Tyr+(0.0917)Phe+(-0.1596)Trp;0.807,0.843,0.802,0.795,0.813,0.831,0.777,0.804,(8.3877)+(-0.0060)Asn+(-0.0829)His+(-0.0042)Arg+(-0.0235)Met+(0.0397)Orn+(-0.0956)Trp;0.807,0.841,0.780,0.774,0.764,0.833,0.794,0.791,(3.3799)+(0.0272)Ser+(0.0029)Thr+(-0.0052)Ala+(-0.0223)Val+(0.0518)Leu+(-0.1540)Trp;0.807,0.832,0.772,0.760,0.764,0.819,0.786,0.782,(1.7801)+(0.0028)Gly+(0.0109)Gln+(-0.1726)His+(-0.0230)Arg+(-0.0018)Lys+(0.0832)Phe;0.807,0.831,0.764,0.752,0.720,0.826,0.845,0.786,(6.6063)+(-0.0637)Asn+(-0.0754)His+(-0.0188)Tyr+(-0.0395)Val+(0.0055)Lys+(0.1399)Ile;0.807,0.826,0.725,0.684,0.723,0.819,0.772,0.749,(3.5534)+(0.0424)Ser+(-0.0048)Gly+(-0.1459)His+(0.0054)Thr+(-0.0197)Val+(0.0471)Leu;0.807,0.83

9,0.799,0.792,0.776,0.821,0.851,0.810,(4.0481)+(-0.0014)Gly+(0.0026)Gln+(0.0072)Thr+(-0.0093)Ala+(0.0650)Ile+(-0.1679)Trp;0.807,0.837,0.799,0.788,0.808,0.813,0.800,0.802,(8.3331)+(-0.0055)Asn+(-0.0870)His+(0.0065)Pro+(0.0057)Tyr+(0.0052)Val+(-0.1087)Trp;0.807,0.831,0.737,0.703,0.729,0.840,0.769,0.760,(3.7046)+(0.0415)Ser+(-0.1354)His+(-0.0033)Ala+(-0.0156)Val+(-0.0074)Lys+(0.0504)Leu;0.807,0.836,0.790,0.778,0.801,0.817,0.777,0.793,(7.5497)+(0.0035)Gly+(-0.1016)His+(0.0094)Tyr+(0.0067)Val+(0.0078)Lys+(-0.1130)Trp;0.807,0.837,0.773,0.752,0.765,0.818,0.810,0.786,(2.2998)+(0.0088)Gln+(-0.1684)His+(-0.0005)Pro+(0.0147)Orn+(-0.0083)Lys+(0.0725)Phe;0.807,0.836,0.741,0.710,0.713,0.817,0.826,0.766,(5.1938)+(-0.1013)His+(-0.0349)Val+(0.0282)Orn+(-0.0054)Lys+(0.1285)Ile+(-0.0031)Leu;0.807,0.844,0.813,0.824,0.823,0.766,0.799,0.803,(2.6235)+(-0.0003)Gly+(0.0040)Gln+(-0.0235)Arg+(0.0028)Pro+(0.0746)Phe+(-0.1768)Trp;0.807,0.848,0.772,0.765,0.754,0.797,0.809,0.781,(-0.0933)+(-0.0250)Asn+(0.0183)Thr+(-0.3648)Met+(0.1673)Ile+(-0.0930)Leu+(0.1113)Phe;0.807,0.848,0.824,0.832,0.817,0.804,0.830,0.821,(3.7805)+(-0.0055)Ala+(-0.0053)Val+(0.0155)Orn+(-0.0028)Lys+(0.0842)Phe+(-0.1516)Trp;0.807,0.841,0.801,0.781,0.817,0.818,0.810,0.806,(8.6003)+(-0.0742)His+(-0.0370)Cit+(0.0078)Pro+(-0.0502)Met+(0.0228)Leu+(-0.1165)Trp;0.807,0.841,0.781,0.769,0.774,0.810,0.808,0.790,(3.6994)+(0.0431)Ser+(-0.0082)Gly+(-0.0220)Val+(-0.0103)Lys+(0.0506)Leu+(-0.1493)Trp;0.807,0.840,0.798,0.779,0.807,0.816,0.815,0.804,(8.1852)+(-0.0866)His+(0.0043)Arg+(0.0070)Pro+(-0.0705)Met+(0.0229)Leu+(-0.1093)Trp;0.807,0.838,0.759,0.755,0.747,0.787,0.771,0.765,(5.4029)+(-0.0646)Asn+(-0.1350)His+(0.0291)Thr+(-0.0028)Ala+(-0.0533)Tyr+(0.1127)Phe;0.807,0.836,0.780,0.768,0.715,0.867,0.882,0.808,(5.3411)+(-0.1178)Asn+(-0.0074)Ala+(-0.0566)Val+(0.0318)Orn+(-0.0013)Lys+(0.1766)Ile;0.807,0.835,0.793,0.774,0.787,0.850,0.818,0.807,(3.9245)+(0.0097)Gln+(-0.1343)His+(-0.0

237)Val+(-0.1608)Met+(0.0256)Orn+(0.0538)Leu;0.807,0.835,0.773,0.759,0.739,0.846,0.826,0.793,(5.7193)+(0.0037)Gly+(-0.0965)His+(-0.0068)Ala+(-0.0118)Arg+(0.1323)Ile+(-0.0504)Leu;0.807,0.846,0.823,0.832,0.837,0.786,0.798,0.813,(4.9181)+(-0.0611)Asn+(-0.0127)Arg+(0.0172)Orn+(-0.0049)Leu+(0.0774)Phe+(-0.1500)Trp;0.807,0.838,0.827,0.841,0.829,0.849,0.770,0.822,(5.0631)+(0.0047)Gln+(0.0218)Thr+(-0.0023)Ala+(0.0205)Tyr+(-0.2043)Met+(-0.1495)Trp;0.807,0.831,0.719,0.681,0.720,0.826,0.742,0.742,(3.7324)+(0.0382)Ser+(-0.1434)His+(0.0082)Thr+(-0.0187)Val+(-0.0107)Lys+(0.0523)Leu;0.807,0.834,0.802,0.806,0.802,0.823,0.778,0.802,(8.2416)+(-0.0284)Asn+(0.0032)Gly+(-0.0856)His+(-0.0006)Ala+(0.0130)Lys+(-0.1021)Trp;0.807,0.838,0.767,0.751,0.783,0.811,0.742,0.772,(3.4367)+(0.0086)Gly+(-0.1312)His+(-0.0397)Cit+(-0.2158)Met+(0.0074)Lys+(0.1340)Phe;0.807,0.833,0.739,0.703,0.722,0.826,0.807,0.764,(5.1615)+(-0.0939)His+(-0.0657)Cit+(-0.0331)Val+(0.0442)Orn+(0.1342)Ile+(-0.0123)Leu;0.807,0.835,0.762,0.741,0.712,0.862,0.851,0.792,(2.9350)+(0.0020)Gly+(-0.0125)Ala+(-0.1078)Cit+(-0.0498)Val+(0.0449)Orn+(0.1705)Ile;0.807,0.834,0.800,0.795,0.829,0.826,0.735,0.796,(7.0490)+(-0.1091)Cit+(-0.0028)Arg+(-0.0062)Tyr+(0.0003)Val+(0.0561)Orn+(-0.1538)Trp;0.807,0.838,0.785,0.806,0.775,0.820,0.729,0.782,(-1.3433)+(0.0541)Ser+(-0.1068)Asn+(-0.0116)Arg+(-0.0150)Val+(-0.2472)Met+(0.1398)Phe;0.807,0.837,0.739,0.719,0.722,0.807,0.782,0.757,(5.4704)+(-0.1177)His+(0.0089)Thr+(-0.0384)Tyr+(0.0238)Orn+(0.1039)Ile+(-0.0405)Leu;0.807,0.837,0.740,0.732,0.741,0.784,0.728,0.746,(5.0360)+(-0.1391)His+(0.0276)Thr+(-0.0419)Cit+(-0.0558)Tyr+(-0.0083)Lys+(0.1163)Phe;0.807,0.832,0.757,0.742,0.715,0.830,0.830,0.779,(6.2568)+(-0.0641)Asn+(0.0035)Gly+(-0.0758)His+(-0.0127)Tyr+(-0.0383)Val+(0.1413)Ile;0.807,0.831,0.735,0.717,0.697,0.810,0.810,0.758,(5.4528)+(-0.1015)His+(0.0122)Thr+(-0.0288)Tyr+(-0.0313)Val+(0.1311)Ile+(-0.0047)Leu;0.807,0.831,0.764,0.746,0.723

,0.829,0.849,0.787,(6.2940)+(-0.0658)Asn+(-0.0771)His+(-0.0388)Val+(0.0039)Lys+(0.1419)Ile+(-0.0053)Leu;0.807,0.845,0.789,0.810,0.780,0.743,0.783,0.779,(2.4756)+(0.0026)Gln+(0.0038)Pro+(-0.0415)Tyr+(0.0034)Orn+(0.0843)Phe+(-0.1667)Trp;0.807,0.837,0.812,0.802,0.817,0.823,0.817,0.815,(7.2588)+(-0.0074)Ala+(-0.0764)Cit+(0.0127)Pro+(-0.0004)Lys+(0.0185)Leu+(-0.1521)Trp;0.807,0.837,0.768,0.739,0.760,0.839,0.808,0.787,(5.5897)+(0.0049)Gly+(-0.1167)His+(-0.0052)Ala+(-0.1407)Met+(0.0221)Orn+(0.0685)Ile;0.807,0.834,0.802,0.790,0.815,0.817,0.792,0.804,(8.6665)+(-0.0020)Asn+(-0.0733)His+(-0.0399)Cit+(0.0076)Pro+(0.0067)Val+(-0.1156)Trp;0.807,0.832,0.731,0.693,0.731,0.838,0.758,0.755,(3.2814)+(0.0373)Ser+(-0.1486)His+(-0.0001)Thr+(-0.0049)Ala+(0.0197)Orn+(0.0212)Leu;0.807,0.832,0.750,0.719,0.753,0.840,0.760,0.768,(4.2765)+(0.0463)Ser+(-0.0553)Asn+(-0.1248)His+(-0.0041)Ala+(-0.0351)Cit+(0.0259)Leu;0.807,0.843,0.804,0.804,0.808,0.784,0.811,0.802,(4.7221)+(-0.0773)Cit+(-0.0240)Tyr+(-0.0159)Val+(0.0303)Leu+(0.1005)Phe+(-0.1643)Trp;0.807,0.841,0.791,0.777,0.750,0.857,0.868,0.813,(5.1809)+(-0.0321)Asn+(-0.0005)Arg+(0.0153)Tyr+(-0.0564)Val+(-0.2632)Met+(0.1916)Ile;0.807,0.837,0.757,0.728,0.764,0.845,0.757,0.774,(4.6519)+(0.0451)Ser+(-0.0629)Asn+(-0.0043)Gly+(-0.1213)His+(0.0299)Orn+(-0.0024)Lys;0.807,0.836,0.743,0.706,0.752,0.836,0.753,0.762,(4.0845)+(0.0426)Ser+(-0.0050)Gly+(-0.1378)His+(0.0032)Val+(0.0263)Orn+(-0.0076)Lys;0.807,0.835,0.759,0.745,0.764,0.849,0.721,0.770,(2.9942)+(0.0294)Ser+(0.0071)Gln+(-0.1519)His+(0.0021)Thr+(-0.0253)Arg+(0.0222)Orn;0.807,0.843,0.795,0.781,0.809,0.823,0.780,0.798,(8.1552)+(-0.0937)His+(-0.0057)Arg+(0.0041)Tyr+(0.0042)Val+(0.0350)Orn+(-0.1053)Trp;0.807,0.840,0.815,0.806,0.812,0.823,0.837,0.820,(3.5852)+(0.0057)Gln+(0.0165)Tyr+(-0.2272)Met+(-0.0016)Lys+(0.0655)Ile+(-0.1521)Trp;0.807,0.832,0.805,0.798,0.809,0.816,0.807,0.808,(8.4027)+(-0.0116)Asn+(-0.0903)His+(-0.0016)Ala+(0.0065)Val+

(0.0104)Lys+(-0.1093)Trp;0.807,0.830,0.740,0.714,0.740,0.829,0.744,0.757,(2.4043)+(0.0312)Ser+(0.0051)Gln+(-0.1537)His+(-0.0064)Thr+(0.0050)Pro+(0.0180)Orn;0.807,0.838,0.763,0.746,0.730,0.816,0.837,0.782,(4.7633)+(-0.1283)His+(-0.0064)Ala+(0.0044)Pro+(-0.0407)Tyr+(0.0437)Ile+(0.0763)Phe;0.807,0.846,0.826,0.846,0.822,0.784,0.814,0.816,(4.9942)+(-0.0556)Asn+(-0.0062)Arg+(-0.0220)Tyr+(-0.0065)Val+(0.1047)Phe+(-0.1377)Trp;0.807,0.843,0.755,0.743,0.722,0.845,0.793,0.776,(-0.3139)+(0.0488)Ser+(-0.0070)Gly+(0.0037)Thr+(-0.3157)Met+(0.1698)Ile+(-0.0749)Leu;0.807,0.838,0.767,0.750,0.777,0.806,0.762,0.774,(3.2864)+(0.0074)Gly+(-0.1391)His+(-0.2247)Met+(0.0073)Lys+(0.0037)Leu+(0.1262)Phe;0.807,0.833,0.736,0.705,0.708,0.817,0.817,0.762,(4.7750)+(0.0010)Gly+(-0.1071)His+(-0.0334)Val+(0.0247)Orn+(0.1263)Ile+(-0.0059)Leu;0.807,0.833,0.710,0.675,0.716,0.799,0.730,0.730,(0.9017)+(0.0442)Ser+(-0.1578)His+(-0.0338)Cit+(0.0021)Pro+(-0.0030)Val+(0.0960)Phe;0.807,0.831,0.810,0.798,0.797,0.851,0.841,0.822,(4.2093)+(-0.0420)Asn+(0.0121)Gln+(-0.1294)His+(-0.0226)Val+(-0.1259)Met+(0.0548)Leu;0.807,0.844,0.772,0.763,0.711,0.879,0.848,0.800,(1.5180)+(0.0397)Ser+(-0.1120)Asn+(-0.0099)Ala+(-0.0072)Lys+(0.1677)Ile+(-0.0743)Leu;0.807,0.840,0.813,0.806,0.812,0.835,0.815,0.817,(8.6402)+(-0.0723)His+(-0.0034)Ala+(0.0113)Pro+(0.0214)Tyr+(-0.0613)Met+(-0.1018)Trp;0.807,0.838,0.750,0.717,0.756,0.836,0.765,0.768,(3.4980)+(0.0510)Ser+(-0.0030)Gly+(-0.1301)His+(-0.0019)Ala+(-0.1467)Met+(0.0309)Leu;0.807,0.834,0.760,0.743,0.752,0.856,0.752,0.776,(4.9126)+(0.0449)Ser+(-0.0630)Asn+(-0.1031)His+(-0.0060)Ala+(-0.0376)Cit+(0.0140)Pro;0.807,0.841,0.777,0.767,0.736,0.849,0.841,0.798,(4.5183)+(0.0022)Gly+(-0.0043)Arg+(0.0034)Pro+(-0.0545)Val+(-0.2812)Met+(0.1869)Ile;0.807,0.837,0.825,0.827,0.830,0.835,0.803,0.824,(8.3724)+(-0.0205)Asn+(-0.0049)Ala+(-0.0628)Cit+(0.0144)Pro+(-0.0397)Met+(-0.1286)Trp;0.807,0.836,0.851,0.859,0.852,0.856,0.819,0.847,(5.

8630)+(-0.0663)Asn+(0.0085)Gln+(-0.0027)Ala+(-0.0747)Cit+(0.0053)Val+(-0.1459)Trp;0.807,0.839,0.779,0.779,0.773,0.796,0.780,0.782,(3.7532)+(0.0401)Ser+(-0.0090)Gly+(-0.0003)Thr+(0.0076)Pro+(-0.0219)Tyr+(-0.1480)Trp;0.807,0.838,0.727,0.705,0.713,0.786,0.772,0.744,(3.8210)+(0.0036)Gly+(-0.1456)His+(-0.0494)Tyr+(0.0189)Orn+(0.0359)Ile+(0.0765)Phe;0.807,0.834,0.758,0.738,0.721,0.829,0.839,0.782,(3.8390)+(0.0061)Gln+(-0.1173)His+(-0.0276)Val+(-0.0060)Lys+(0.1210)Ile+(-0.0060)Leu;0.807,0.843,0.774,0.745,0.768,0.837,0.820,0.793,(5.8648)+(-0.0958)His+(-0.0007)Pro+(-0.1563)Met+(0.0252)Orn+(0.1283)Ile+(-0.0508)Leu;0.807,0.839,0.789,0.790,0.784,0.863,0.742,0.795,(3.1170)+(0.0330)Ser+(0.0090)Gln+(-0.1333)His+(0.0007)Ala+(-0.0173)Arg+(-0.1047)Met;0.807,0.834,0.733,0.694,0.719,0.824,0.800,0.759,(5.0324)+(-0.1021)His+(0.0061)Thr+(-0.0642)Cit+(-0.0359)Val+(0.0415)Orn+(0.1230)Ile;0.807,0.845,0.780,0.793,0.796,0.758,0.724,0.768,(3.9375)+(0.0225)Thr+(-0.0241)Arg+(-0.0421)Tyr+(-0.0043)Lys+(0.1025)Phe+(-0.1668)Trp;0.807,0.841,0.778,0.768,0.712,0.849,0.892,0.805,(2.4192)+(-0.0117)Ala+(-0.0617)Cit+(-0.0151)Arg+(-0.0549)Val+(0.1804)Ile+(0.0596)Phe;0.807,0.838,0.707,0.661,0.724,0.809,0.718,0.728,(0.8068)+(0.0422)Ser+(-0.1597)His+(-0.0575)Cit+(0.0278)Orn+(-0.0008)Leu+(0.0861)Phe;0.807,0.833,0.761,0.740,0.737,0.828,0.816,0.780,(6.5047)+(-0.0345)Asn+(-0.1239)His+(0.0205)Thr+(-0.0056)Ala+(-0.0269)Tyr+(0.0600)Ile;0.807,0.843,0.740,0.705,0.760,0.839,0.722,0.756,(3.3883)+(0.0461)Ser+(-0.1342)His+(-0.0089)Arg+(-0.1573)Met+(0.0243)Orn+(0.0256)Leu;0.807,0.841,0.750,0.724,0.758,0.837,0.743,0.765,(3.7577)+(0.0506)Ser+(-0.0039)Gly+(-0.1191)His+(0.0112)Pro+(0.0046)Val+(-0.1645)Met;0.807,0.832,0.

734,0.723,0.728,0.773,0.747,0.743,(4.6887)+(-0.1491)His+(0.0252)Thr+(-0.0552)Tyr+(-0.0075)Lys+(0.0045)Leu+(0.1051)Phe;0.807,0.837,0.803,0.798,0.822,0.809,0.770,0.800,(5.0846)+(0.0039)Gln+(0.0078)Thr+(-0.0876

)Cit+(0.0049)Pro+(0.0118)Leu+(-0.1774)Trp;0.807,0.837,0.849,0.857,0.856,0.851,0.813,0.844,(5.6996)+(-0.0573)Asn+(0.0089)Gln+(-0.0708)Cit+(0.0045)Val+(-0.0602)Met+(-0.1435)Trp;0.807,0.836,0.715,0.668,0.730,0.823,0.727,0.737,(3.2317)+(0.0403)Ser+(-0.1493)His+(0.0027)Pro+(0.0195)Orn+(-0.0112)Lys+(0.0204)Leu;0.807,0.830,0.736,0.695,0.734,0.826,0.780,0.759,(3.8038)+(0.0479)Ser+(-0.0048)Gly+(-0.1360)His+(-0.0181)Val+(-0.0092)Lys+(0.0507)Leu;0.807,0.841,0.731,0.714,0.740,0.783,0.718,0.739,(-4.1968)+(0.0555)Ser+(-0.0815)Asn+(0.0118)Thr+(-0.4128)Met+(0.0479)Ile+(0.0926)Phe;0.807,0.847,0.806,0.822,0.802,0.760,0.803,0.797,(4.6769)+(-0.0606)Asn+(0.0057)Pro+(-0.0318)Tyr+(-0.0039)Leu+(0.0933)Phe+(-0.1452)Trp;0.807,0.839,0.783,0.796,0.798,0.744,0.743,0.770,(4.2585)+(-0.0026)Gly+(0.0233)Thr+(-0.0256)Arg+(-0.0454)Tyr+(0.0987)Phe+(-0.1688)Trp;0.807,0.836,0.778,0.767,0.781,0.822,0.770,0.785,(3.8152)+(0.0070)Gly+(-0.1259)His+(-0.0011)Ala+(-0.0031)Val+(-0.1898)Met+(0.1349)Phe;0.807,0.835,0.747,0.722,0.714,0.825,0.825,0.772,(3.6933)+(0.0045)Gln+(-0.1220)His+(-0.0294)Val+(0.0179)Orn+(0.1175)Ile+(-0.0068)Leu;0.807,0.846,0.801,0.815,0.782,0.781,0.818,0.799,(3.8316)+(-0.0072)Ala+(0.0098)Pro+(-0.0271)Tyr+(-0.0018)Lys+(0.0926)Phe+(-0.1520)Trp;0.807,0.838,0.792,0.791,0.767,0.829,0.819,0.801,(2.2772)+(0.0101)Gln+(-0.1498)His+(-0.0033)Ala+(-0.0456)Cit+(-0.0369)Tyr+(0.1057)Phe;0.807,0.836,0.817,0.814,0.825,0.835,0.795,0.817,(5.3305)+(0.0043)Gln+(0.0129)Thr+(-0.0059)Ala+(-0.0831)Cit+(0.0211)Leu+(-0.1710)Trp;0.807,0.834,0.745,0.713,0.746,0.839,0.764,0.765,(4.0643)+(0.0461)Ser+(-0.0515)Asn+(-0.1325)His+(-0.0035)Ala+(-0.0042)Lys+(0.0269)Leu;0.807,0.833,0.795,0.786,0.825,0.814,0.741,0.791,(6.7780)+(-0.1118)Cit+(-0.0018)Arg+(-0.0089)Tyr+(0.0532)Orn+(0.0103)Leu+(-0.1632)Trp;0.807,0.832,0.769,0.757,0.744,0.833,0.807,0.785,(3.5401)+(0.0084)Gln+(-0.1176)His+(-0.0532)Cit+(-0.0279)Tyr+(0.1146)Ile+(-0.0425)Leu;0.807,0.848,0.795,0.799,0.821,0.7

72,0.747,0.785,(3.8847)+(0.0158)Thr+(-0.0256)Arg+(0.0082)Orn+(-0.0052)Lys+(0.0777)Phe+(-0.1759)Trp;0.807,0.843,0.793,0.789,0.790,0.869,0.756,0.801,(2.7792)+(0.0348)Ser+(0.0092)Gln+(-0.1375)His+(-0.0168)Arg+(0.0225)Tyr+(-0.1409)Met;0.807,0.838,0.815,0.823,0.837,0.838,0.734,0.808,(8.2614)+(-0.0729)Asn+(0.0015)Gly+(0.0220)Thr+(-0.0697)Cit+(-0.0004)Arg+(-0.1454)Trp;0.807,0.842,0.782,0.788,0.765,0.831,0.768,0.788,(3.3342)+(0.0269)Ser+(-0.0075)Ala+(0.0104)Pro+(-0.0008)Val+(0.0131)Orn+(-0.1456)Trp;0.807,0.841,0.781,0.785,0.762,0.833,0.770,0.787,(3.4021)+(0.0284)Ser+(0.0000)Gln+(-0.0071)Ala+(0.0110)Pro+(0.0007)Val+(-0.1457)Trp;0.807,0.837,0.788,0.773,0.800,0.821,0.780,0.793,(7.8548)+(0.0083)Asn+(0.0045)Gly+(-0.0960)His+(-0.0596)Met+(0.0287)Leu+(-0.1065)Trp;0.807,0.848,0.802,0.810,0.806,0.755,0.803,0.794,(2.4436)+(0.0021)Gln+(0.0017)Pro+(0.0020)Orn+(-0.0037)Leu+(0.0677)Phe+(-0.1764)Trp;0.807,0.840,0.773,0.760,0.781,0.742,0.815,0.775,(2.9055)+(-0.0005)Gly+(0.0045)Thr+(-0.0084)Orn+(0.0418)Ile+(0.0486)Phe+(-0.1901)Trp;0.807,0.831,0.718,0.669,0.729,0.820,0.753,0.743,(3.0612)+(0.0423)Ser+(-0.0042)Gly+(-0.1534)His+(0.0025)Pro+(0.0156)Orn+(0.0141)Leu;0.807,0.835,0.758,0.737,0.721,0.829,0.841,0.782,(3.8730)+(0.0000)Gly+(0.0061)Gln+(-0.1183)His+(-0.0293)Val+(-0.0063)Lys+(0.1169)Ile;0.807,0.842,0.800,0.821,0.792,0.763,0.788,0.791,(3.7103)+(-0.0010)Gly+(-0.0355)Tyr+(-0.0079)Val+(0.0165)Orn+(0.0934)Phe+(-0.1483)Trp;0.807,0.845,0.801,0.817,0.798,0.761,0.796,0.793,(4.6125)+(-0.0645)Asn+(0.0044)Pro+(-0.0333)Tyr+(0.0123)Orn+(0.0837)Phe+(-0.1463)Trp;0.807,0.832,0.718,0.701,0.638,0.833,0.847,0.755,(1.7364)+(0.0294)Ser+(-0.0053)Gln+(-0.0122)Ala+(0.0067)Pro+(-0.0530)Val+(0.1743)Ile;0.807,0.843,0.790,0.791,0.795,0.824,0.749,0.790,(4.1689)+(0.0421)Ser+(-0.0966)Asn+(-0.0098)Arg+(0.0022)Tyr+(0.0149)Leu+(-0.1424)Trp;0.807,0.842,0.816,0.833,0.803,0.787,0.819,0.811,(3.8107)+(0.0001)Gly+(-0.0042)Ala+(-0.0233)Tyr+(-0.0040)Val+(0.1006)Ph

e+(-0.1497)Trp;0.807,0.840,0.800,0.811,0.809,0.807,0.749,0.794,(4.5588)+(0.0042)Gln+(0.0219)Thr+(0.0063)Pro+(-0.2354)Met+(0.0128)Leu+(-0.1525)Trp;0.807,0.837,0.842,0.846,0.847,0.842,0.820,0.839,(5.6113)+(-0.0755)Asn+(0.0083)Gln+(-0.0777)Cit+(-0.0006)Lys+(0.0149)Leu+(-0.1558)Trp;0.807,0.838,0.800,0.791,0.789,0.824,0.828,0.808,(5.4210)+(0.0018)Gly+(-0.0057)Ala+(-0.1416)Met+(0.0107)Orn+(0.0722)Ile+(-0.1395)Trp;0.807,0.836,0.852,0.864,0.850,0.858,0.819,0.848,(5.9789)+(-0.0773)Asn+(0.0083)Gln+(-0.0018)Ala+(-0.0686)Cit+(0.0044)Lys+(-0.1405)Trp;0.807,0.831,0.770,0.760,0.763,0.816,0.781,0.780,(1.7248)+(0.0029)Gly+(0.0109)Gln+(-0.1733)His+(-0.0241)Arg+(-0.0011)Leu+(0.0832)Phe;0.807,0.845,0.792,0.796,0.805,0.750,0.784,0.784,(3.0401)+(0.0050)Thr+(0.0015)Pro+(0.0022)Orn+(-0.0037)Leu+(0.0681)Phe+(-0.1763)Trp;0.807,0.837,0.840,0.851,0.845,0.848,0.791,0.834,(5.6866)+(-0.0776)Asn+(0.0023)Gly+(0.0082)Gln+(-0.0783)Cit+(0.0039)Val+(-0.1483)Trp;0.807,0.835,0.740,0.698,0.752,0.831,0.759,0.760,(3.8268)+(0.0474)Ser+(-0.0684)Asn+(-0.0034)Gly+(-0.1373)His+(0.0213)Orn+(0.0162)Leu;0.807,0.833,0.764,0.746,0.752,0.812,0.801,0.778,(2.2017)+(0.0077)Gln+(-0.1664)His+(0.0003)Pro+(-0.0062)Val+(0.0157)Orn+(0.0757)Phe;0.807,0.840,0.803,0.801,0.814,0.835,0.766,0.804,(5.0161)+(0.0390)Ser+(-0.0055)Gly+(-0.0644)Cit+(0.0034)Tyr+(-0.0025)Lys+(-0.1488)Trp;0.807,0.835,0.749,0.717,0.741,0.817,0.805,0.770,(5.5809)+(-0.0435)Asn+(-0.1166)His+(0.0094)Thr+(0.0199)Orn+(0.0986)Ile+(-0.0428)Leu;0.807,0.835,0.734,0.702,0.706,0.815,0.817,0.760,(4.7713)+(-0.1116)His+(0.0059)Thr+(-0.0342)Val+(0.0226)Orn+(0.1230)Ile+(-0.0029)Leu;0.807,0.844,0.813,0.832,0.795,0.788,0.819,0.808,(2.6280)+(0.0031)Gln+(-0.0055)Ala+(-0.0276)Tyr+(0.0084)Orn+(0.0879)Phe+(-0.1587)Trp;0.807,0.839,0.795,0.791,0.785,0.866,0.774,0.804,(3.5801)+(0.0345)Ser+(-0.0859)Asn+(0.0091)Gln+(-0.1219)His+(-0.0013)Ala+(-0.0380)Cit;0.807,0.835,0.751,0.733,0.738,0.849,0.759,0.770,(4.5050)+(0.0433)Ser

+(-0.0680)Asn+(-0.1153)His+(-0.0055)Ala+(0.0129)Pro+(0.0029)Lys;0.807,0.834,0.763,0.745,0.775,0.800,0.758,0.769,(3.4487)+(0.0074)Gly+(-0.1288)His+(-0.0015)Arg+(0.0067)Pro+(-0.2212)Met+(0.1263)Phe;0.807,0.832,0.720,0.715,0.670,0.814,0.768,0.742,(-1.3483)+(0.0319)Ser+(-0.0469)Arg+(-0.0438)Val+(0.2015)Ile+(-0.0539)Leu+(0.0575)Phe;0.807,0.831,0.736,0.718,0.698,0.814,0.810,0.760,(5.4894)+(-0.1033)His+(0.0128)Thr+(-0.0013)Pro+(-0.0277)Tyr+(-0.0325)Val+(0.1289)Ile;0.807,0.831,0.764,0.755,0.763,0.842,0.732,0.773,(2.6452)+(0.0325)Ser+(0.0083)Gln+(-0.1558)His+(-0.0226)Arg+(-0.0090)Tyr+(0.0067)Val;0.807,0.831,0.773,0.770,0.767,0.856,0.734,0.782,(3.3480)+(0.0287)Ser+(0.0078)Gln+(-0.1462)His+(0.0069)Thr+(-0.0017)Ala+(-0.0239)Arg;0.807,0.831,0.739,0.714,0.729,0.845,0.754,0.760,(3.7631)+(0.0398)Ser+(-0.1338)His+(-0.0061)Ala+(0.0105)Pro+(0.0062)Val+(-0.0036)Lys;0.807,0.844,0.822,0.827,0.833,0.787,0.808,0.814,(3.7513)+(0.0013)Tyr+(-0.2086)Met+(0.0117)Orn+(0.0007)Leu+(0.1036)Phe+(-0.1425)Trp;0.807,0.839,0.768,0.745,0.775,0.854,0.752,0.782,(4.5613)+(0.0463)Ser+(-0.0384)Asn+(-0.0043)Gly+(-0.1134)His+(-0.0960)Met+(0.0325)Orn;0.807,0.835,0.755,0.737,0.737,0.816,0.798,0.772,(3.8645)+(0.0076)Gln+(-0.1501)His+(0.0112)Thr+(-0.0285)Tyr+(-0.0079)Lys+(0.0534)Ile;0.807,0.831,0.765,0.748,0.758,0.854,0.761,0.780,(2.6002)+(0.0321)Ser+(0.0069)Gln+(-0.1490)His+(-0.0043)Ala+(-0.0448)Cit+(0.0097)Val;0.807,0.830,0.798,0.798,0.723,0.875,0.898,0.823,(4.2685)+(-0.1226)Asn+(0.0042)Gln+(-0.0075)Ala+(-0.0471)Val+(0.1884)Ile+(-0.0201)Leu;0.807,0.844,0.798,0.804,0.807,0.752,0.798,0.790,(3.2858)+(-0.0006)Gly+(0.0022)Pro+(0.0055)Orn+(-0.0039)Leu+(0.0672)Phe+(-0.1715)Trp;0.807,0.833,0.755,0.724,0.752,0.849,0.772,0.774,(4.1975)+(0.0392)Ser+(-0.0047)Gly+(-0.1328)His+(0.0003)Thr+(-0.0031)Ala+(0.0277)Orn;0.807,0.833,0.738,0.706,0.735,0.798,0.788,0.757,(4.7932)+(-0.1492)His+(0.0214)Thr+(-0.0230)Val+(-0.0112)Lys+(0.0395)Leu+(0.0777)Phe;0.807,0.833,0.754

,0.729,0.735,0.822,0.812,0.774,(3.1309)+(0.0005)Gly+(0.0067)Gln+(-0.1426)His+(0.0097)Orn+(0.0939)Ile+(-0.0381)Leu;0.807,0.841,0.818,0.818,0.818,0.809,0.823,0.817,(4.9475)+(-0.0057)Ala+(-0.0855)Cit+(-0.0129)Tyr+(0.0101)Leu+(0.1023)Phe+(-0.1638)Trp;0.807,0.840,0.785,0.782,0.775,0.833,0.779,0.792,(3.7273)+(0.0320)Ser+(-0.0042)Ala+(-0.0154)Arg+(-0.0211)Val+(0.0511)Leu+(-0.1483)Trp;0.807,0.839,0.767,0.747,0.753,0.835,0.800,0.784,(5.5782)+(0.0049)Gly+(-0.0949)His+(0.0008)Pro+(-0.1663)Met+(0.1314)Ile+(-0.0467)Leu;0.807,0.838,0.790,0.776,0.779,0.835,0.816,0.802,(2.2789)+(0.0106)Gln+(-0.1639)His+(-0.0045)Ala+(-0.0228)Arg+(0.0169)Orn+(0.0790)Phe;0.807,0.836,0.787,0.768,0.754,0.859,0.853,0.808,(6.1988)+(-0.0801)His+(-0.0083)Ala+(-0.0532)Cit+(0.0000)Arg+(0.1411)Ile+(-0.0539)Leu;0.807,0.833,0.746,0.755,0.688,0.797,0.807,0.762,(1.6376)+(-0.0785)Cit+(-0.0727)Tyr+(-0.0330)Val+(0.1946)Ile+(-0.0600)Leu+(0.0955)Phe;0.807,0.845,0.807,0.827,0.800,0.762,0.801,0.797,(2.5014)+(0.0036)Gln+(-0.0351)Tyr+(-0.0055)Lys+(0.0008)Leu+(0.0913)Phe+(-0.1631)Trp;0.807,0.844,0.812,0.833,0.803,0.762,0.813,0.803,(2.6907)+(-0.0016)Gly+(0.0040)Gln+(-0.0362)Tyr+(-0.0052)Lys+(0.0908)Phe+(-0.1617)Trp;0.807,0.838,0.793,0.779,0.800,0.828,0.789,0.799,(8.0274)+(0.0045)Gly+(-0.0936)His+(-0.0014)Ala+(-0.0450)Met+(0.0291)Leu+(-0.1055)Trp;0.807,0.838,0.810,0.814,0.827,0.824,0.757,0.805,(5.6441)+(0.0044)Gln+(0.0097)Thr+(-0.0834)Cit+(0.0067)Pro+(-0.0048)Lys+(-0.1628)Trp;0.807,0.837,0.762,0.739,0.768,0.859,0.742,0.777,(3.3585)+(0.0285)Ser+(0.0051)Gln+(-0.1335)His+(-0.0045)Ala+(-0.0734)Cit+(0.0448)Orn;0.807,0.836,0.767,0.746,0.736,0.854,0.826,0.791,(5.8383)+(-0.1300)Asn+(-0.0788)Cit+(-0.0052)Arg+(-0.0580)Val+(0.0560)Orn+(0.1647)Ile;0.807,0.833,0.736,0.697,0.743,0.822,0.763,0.756,(3.7682)+(0.0496)Ser+(-0.0650)Asn+(-0.0033)Gly+(-0.1355)His+(0.0047)Pro+(0.0169)Leu;0.807,0.840,0.797,0.798,0.814,0.841,0.725,0.795,(4.8545)+(0.0323)Ser+(-0.0687)Cit+(-0.0047)Arg+

(0.0076)Tyr+(-0.0014)Lys+(-0.1514)Trp;0.807,0.832,0.782,0.775,0.770,0.817,0.803,0.791,(2.1749)+(0.0113)Gln+(-0.1670)His+(-0.0238)Arg+(0.0019)Pro+(-0.0054)Val+(0.0864)Phe;0.807,0.831,0.769,0.757,0.755,0.839,0.781,0.783,(3.2759)+(0.0355)Ser+(-0.0066)Gly+(0.0065)Gln+(-0.1450)His+(0.0025)Thr+(-0.0132)Tyr;0.807,0.840,0.784,0.776,0.787,0.752,0.823,0.784,(2.2895)+(0.0020)Gln+(-0.0026)Pro+(-0.0080)Orn+(0.0448)Ile+(0.0488)Phe+(-0.1903)Trp;0.807,0.840,0.792,0.813,0.773,0.820,0.755,0.790,(-2.1654)+(0.0504)Ser+(-0.1259)Asn+(0.0030)Gln+(-0.0156)Val+(-0.2623)Met+(0.1364)Phe;0.807,0.832,0.740,0.711,0.733,0.833,0.765,0.761,(4.3474)+(0.0467)Ser+(-0.0863)Asn+(-0.1205)His+(0.0004)Tyr+(-0.0254)Val+(0.0589)Leu;0.807,0.837,0.824,0.823,0.825,0.842,0.810,0.825,(8.2406)+(-0.0375)Asn+(-0.0057)Ala+(-0.0716)Cit+(0.0084)Arg+(0.0139)Pro+(-0.1331)Trp;0.807,0.836,0.767,0.752,0.778,0.804,0.755,0.772,(3.3633)+(0.0076)Gly+(-0.1375)His+(-0.0053)Arg+(-0.2188)Met+(0.0092)Lys+(0.1291)Phe;0.807,0.833,0.742,0.705,0.724,0.829,0.811,0.767,(5.2563)+(-0.0964)His+(-0.0635)Cit+(-0.0032)Pro+(-0.0364)Val+(0.0456)Orn+(0.1285)Ile;0.807,0.839,0.754,0.732,0.758,0.842,0.745,0.769,(3.9871)+(0.0499)Ser+(-0.0041)Gly+(-0.1134)His+(0.0123)Pro+(0.0051)Tyr+(-0.1653)Met;0.807,0.833,0.777,0.768,0.712,0.856,0.879,0.804,(4.7707)+(-0.0098)Ala+(-0.0672)Cit+(-0.0164)Tyr+(-0.0466)Val+(-0.0072)Lys+(0.1798)Ile;0.807,0.830,0.737,0.711,0.725,0.844,0.753,0.758,(3.6077)+(0.0393)Ser+(-0.1353)His+(-0.0012)Thr+(-0.0063)Ala+(0.0107)Pro+(0.0054)Val;0.807,0.852,0.758,0.746,0.745,0.865,0.737,0.773,(0.6599)+(0.0437)Ser+(-0.0651)Cit+(-0.0108)Arg+(-0.2636)Met+(0.1798)Ile+(-0.0776)Leu;0.807,0.844,0.739,0.699,0.759,0.839,0.734,0.758,(3.0241)+(0.0461)Ser+(-0.1369)His+(0.0085)Tyr+(-0.1853)Met+(0.0204)Orn+(0.0267)Leu;0.807,0.843,0.800,0.798,0.795,0.870,0.766,0.807,(3.4194)+(0.0351)Ser+(-0.0650)Asn+(0.0094)Gln+(-0.1173)His+(-0.0354)Cit+(-0.0770)Met;

0.807,0.837,0.754,0.725,0.772,0.863,0.718,0.769,(4.7777)+(0.0348)Ser+(-0.1140)His+(-0.0042)Ala+(-0.0765)Cit+(0.0549)Orn+(-0.0066)Lys;0.807,0.836,0.755,0.731,0.757,0.852,0.744,0.771,(4.5026)+(0.0396)Ser+(-0.0629)Asn+(-0.1237)His+(-0.0030)Ala+(0.0030)Val+(0.0288)Orn;0.807,0.841,0.763,0.747,0.769,0.856,0.729,0.775,(4.5985)+(0.0402)Ser+(-0.0420)Asn+(-0.1137)His+(-0.0011)Ala+(-0.0854)Met+(0.0330)Orn;0.807,0.840,0.769,0.739,0.770,0.803,0.823,0.784,(3.8552)+(0.0381)Asn+(-0.1290)His+(-0.0165)Tyr+(-0.2398)Met+(0.0527)Ile+(0.1018)Phe;0.807,0.834,0.759,0.745,0.758,0.811,0.760,0.768,(1.8669)+(0.0023)Gly+(0.0099)Gln+(-0.1800)His+(0.0130)Thr+(-0.0295)Arg+(0.0817)Phe;0.807,0.840,0.803,0.802,0.796,0.833,0.797,0.807,(4.0454)+(0.0389)Ser+(-0.0080)Gly+(-0.0037)Ala+(0.0220)Orn+(-0.0068)Lys+(-0.1395)Trp;0.807,0.837,0.782,0.801,0.767,0.816,0.740,0.781,(-1.5339)+(0.0527)Ser+(-0.1174)Asn+(-0.0157)Val+(-0.2601)Met+(0.0017)Lys+(0.1384)Phe;0.807,0.840,0.747,0.716,0.750,0.838,0.756,0.765,(3.5711)+(0.0467)Ser+(-0.1216)His+(-0.0223)Val+(-0.1740)Met+(0.0002)Lys+(0.0643)Leu;0.807,0.839,0.734,0.703,0.706,0.818,0.813,0.760,(5.1720)+(-0.1071)His+(0.0095)Thr+(-0.0351)Val+(0.0251)Orn+(-0.0088)Lys+(0.1263)Ile;0.807,0.839,0.708,0.662,0.725,0.809,0.724,0.730,(0.8437)+(0.0434)Ser+(-0.0009)Gly+(-0.1599)His+(-0.0557)Cit+(0.0271)Orn+(0.0846)Phe;0.807,0.832,0.742,0.727,0.655,0.847,0.889,0.779,(0.6887)+(0.0337)Ser+(-0.0094)Gly+(-0.0129)Ala+(0.0062)Pro+(-0.0536)Val+(0.1712)Ile;0.807,0.841,0.822,0.836,0.811,0.801,0.822,0.818,(4.8001)+(-0.0590)Asn+(-0.0044)Ala+(-0.0220)Tyr+(0.0168)Orn+(0.0879)Phe+(-0.1399)Trp;0.807,0.833,0.745,0.733,0.656,0.844,0.894,0.782,(-0.5342)+(0.0328)Ser+(-0.0085)Gly+(-0.0125)Ala+(-0.0553)Val+(0.1713)Ile+(0.0367)Phe;0.807,0.830,0.756,0.742,0.709,0.818,0.845,0.779,(3.3055)+(-0.2032)Asn+(0.0034)Gly+(0.0173)Thr+(-0.0638)Val+(0.1680)Ile+(0.0706)Phe;0.807,0.830,0.737,0.718,0.707,0.815,0.798,0.759,(5.7353)+(-0.0944)His+(0.0144)Th

r+(-0.0398)Cit+(-0.0297)Tyr+(-0.0325)Val+(0.1304)Ile;0.807,0.848,0.767,0.766,0.746,0.825,0.772,0.777,(-2.6469)+(0.0482)Ser+(-0.0437)Val+(-0.3974)Met+(-0.0060)Lys+(0.0684)Leu+(0.1273)Phe;0.807,0.847,0.801,0.797,0.802,0.780,0.826,0.801,(2.5659)+(0.0041)Gln+(-0.0205)Arg+(-0.0087)Lys+(0.0463)Ile+(0.0590)Phe+(-0.1809)Trp;0.807,0.837,0.755,0.734,0.758,0.853,0.736,0.770,(4.7801)+(0.0374)Ser+(-0.0704)Asn+(-0.1206)His+(0.0047)Thr+(-0.0026)Ala+(0.0293)Orn;0.807,0.836,0.811,0.798,0.804,0.829,0.848,0.820,(5.5658)+(-0.0061)Ala+(0.0193)Tyr+(-0.1628)Met+(0.0095)Orn+(0.0711)Ile+(-0.1439)Trp;0.807,0.834,0.737,0.734,0.736,0.777,0.720,0.742,(5.1131)+(-0.1475)His+(0.0302)Thr+(-0.0207)Arg+(-0.0591)Tyr+(-0.0027)Lys+(0.1154)Phe;0.807,0.831,0.755,0.739,0.757,0.839,0.729,0.766,(2.4006)+(0.0336)Ser+(0.0078)Gln+(-0.1570)His+(-0.0243)Arg+(0.0053)Pro+(0.0038)Val;0.807,0.844,0.779,0.777,0.772,0.761,0.812,0.780,(3.6317)+(-0.0344)Tyr+(0.0022)Orn+(-0.0089)Lys+(0.0481)Ile+(0.0705)Phe+(-0.1660)Trp;0.807,0.843,0.802,0.796,0.811,0.832,0.781,0.805,(8.3820)+(-0.0831)His+(-0.0010)Ala+(-0.0047)Arg+(-0.0212)Met+(0.0404)Orn+(-0.0949)Trp;0.807,0.837,0.742,0.713,0.746,0.846,0.737,0.761,(4.0044)+(0.0361)Ser+(-0.1376)His+(-0.0036)Ala+(0.0059)Val+(0.0262)Orn+(-0.0056)Lys;0.807,0.837,0.798,0.789,0.805,0.811,0.795,0.800,(8.3971)+(-0.0033)Asn+(-0.0858)His+(-0.0011)Arg+(0.0070)Pro+(0.0054)Val+(-0.1070)Trp;0.807,0.835,0.815,0.829,0.824,0.834,0.743,0.807,(7.5249)+(-0.0449)Asn+(0.0268)Thr+(-0.0015)Ala+(0.0007)Val+(-0.1249)Met+(-0.1375)Trp;0.807,0.835,0.759,0.746,0.749,0.844,0.750,0.773,(3.2364)+(0.0269)Ser+(0.0050)Gln+(-0.1444)His+(-0.0027)Ala+(-0.0088)Tyr+(0.0240)Orn;0.807,0.832,0.801,0.802,0.730,0.877,0.890,0.825,(4.3387)+(-0.1152)Asn+(0.0052)Gln+(-0.0070)Ala+(-0.0142)Arg+(-0.0546)Val+(0.1783)Ile;0.807,0.839,0.819,0.821,0.821,0.833,0.797,0.818,(7.4925)+(-0.0051)Ala+(-0.0626)Cit+(0.0149)Pro+(-0.0892)Met+(0.0084)Lys+(-0.1359)Trp;0.807,0.832,0.758,0.738,

0.747,0.802,0.803,0.772,(2.0681)+(0.0080)Gln+(-0.1770)His+(0.0071)Thr+(-0.0012)Pro+(0.0003)Leu+(0.0707)Phe;0.807,0.834,0.731,0.711,0.716,0.785,0.779,0.748,(3.8739)+(0.0042)Gly+(-0.1435)His+(-0.0001)Pro+(-0.0461)Tyr+(0.0399)Ile+(0.0807)Phe;0.807,0.842,0.808,0.801,0.818,0.789,0.821,0.807,(4.6702)+(-0.0785)Cit+(-0.0022)Arg+(-0.0167)Val+(0.0306)Leu+(0.0883)Phe+(-0.1713)Trp;0.807,0.833,0.767,0.741,0.753,0.828,0.818,0.785,(3.3122)+(0.0011)Gly+(0.0088)Gln+(-0.1559)His+(-0.0027)Pro+(-0.0079)Lys+(0.0523)Ile;0.807,0.831,0.707,0.667,0.715,0.796,0.731,0.727,(0.7996)+(0.0448)Ser+(-0.1620)His+(-0.0355)Cit+(0.0011)Pro+(0.0030)Leu+(0.0889)Phe;0.807,0.842,0.779,0.796,0.794,0.751,0.724,0.766,(3.8376)+(0.0211)Thr+(-0.0261)Arg+(-0.0423)Tyr+(-0.0026)Leu+(0.1021)Phe+(-0.1672)Trp;0.807,0.840,0.771,0.740,0.752,0.834,0.849,0.794,(4.8089)+(-0.0239)Asn+(-0.1313)His+(-0.0071)Ala+(0.0184)Orn+(0.0401)Ile+(0.0535)Phe;0.807,0.840,0.753,0.732,0.732,0.802,0.817,0.771,(4.0531)+(-0.1166)His+(-0.0174)Arg+(0.0016)Lys+(0.1141)Ile+(-0.0632)Leu+(0.0767)Phe;0.807,0.838,0.792,0.782,0.775,0.834,0.825,0.804,(2.2804)+(0.0111)Gln+(-0.1631)His+(-0.0053)Ala+(-0.0221)Arg+(0.0049)Pro+(0.0822)Phe;0.807,0.838,0.828,0.830,0.840,0.837,0.793,0.825,(4.8190)+(0.0020)Gly+(0.0069)Gln+(-0.0741)Cit+(-0.1191)Met+(0.0197)Leu+(-0.1542)Trp;0.807,0.835,0.787,0.781,0.777,0.853,0.777,0.797,(3.2464)+(0.0384)Ser+(-0.0062)Gly+(0.0089)Gln+(-0.1432)His+(-0.0218)Arg+(-0.0075)Tyr;0.807,0.833,0.750,0.745,0.664,0.843,0.877,0.782,(1.6009)+(0.0335)Ser+(-0.0096)Gly+(-0.0097)Ala+(-0.0299)Tyr+(-0.0499)Val+(0.1720)Ile;0.807,0.844,0.797,0.800,0.812,0.752,0.793,0.789,(3.3135)+(-0.0015)Gly+(0.0066)Thr+(0.0031)Orn+(-0.0035)Leu+(0.0671)Phe+(-0.1761)Trp;0.807,0.842,0.801,0.795,0.804,0.776,0.826,0.800,(4.4989)+(-0.0517)Asn+(-0.0120)Arg+(-0.0003)Pro+(0.0409)Ile+(0.0589)Phe+(-0.1686)Trp;0.807,0.833,0.784,0.770,0.749,0.847,0.851,0.804,(6.3003)+(-0.0060)Asn+(-0.0910)His+(-0.0069)Ala+(-0.0090)

Arg+(0.1327)Ile+(-0.0525)Leu;0.807,0.832,0.777,0.750,0.767,0.840,0.823,0.795,(3.3906)+(0.0104)Gln+(-0.1460)His+(-0.0499)Cit+(-0.0028)Pro+(-0.0097)Lys+(0.0584)Ile;0.807,0.827,0.722,0.680,0.720,0.815,0.773,0.747,(3.3597)+(0.0445)Ser+(-0.0047)Gly+(-0.1424)His+(0.0043)Pro+(-0.0194)Val+(0.0444)Leu;0.807,0.841,0.798,0.802,0.798,0.822,0.767,0.797,(6.1597)+(0.0247)Thr+(-0.0051)Ala+(0.0099)Pro+(-0.1957)Met+(0.0158)Leu+(-0.1454)Trp;0.807,0.840,0.774,0.770,0.778,0.821,0.739,0.777,(3.5585)+(0.0296)Ser+(-0.0231)Arg+(-0.0259)Val+(0.0224)Orn+(0.0491)Leu+(-0.1528)Trp;0.806,0.833,0.757,0.738,0.746,0.806,0.794,0.771,(2.2393)+(0.0070)Gln+(-0.1691)His+(0.0061)Thr+(-0.0063)Val+(0.0135)Orn+(0.0766)Phe;0.806,0.831,0.758,0.741,0.744,0.812,0.794,0.773,(2.0520)+(0.0016)Gly+(0.0073)Gln+(-0.1673)His+(-0.0059)Val+(0.0151)Orn+(0.0775)Phe;0.806,0.838,0.747,0.716,0.774,0.847,0.703,0.760,(4.8023)+(0.0392)Ser+(-0.0776)Asn+(-0.1147)His+(0.0046)Thr+(-0.0675)Cit+(0.0458)Orn;0.806,0.834,0.749,0.724,0.728,0.824,0.804,0.770,(5.7816)+(-0.1334)His+(0.0145)Thr+(-0.0058)Ala+(-0.0311)Tyr+(0.0216)Orn+(0.0561)Ile;0.806,0.833,0.783,0.773,0.776,0.853,0.771,0.794,(3.1083)+(0.0377)Ser+(-0.0054)Gly+(0.0088)Gln+(-0.1444)His+(-0.0144)Cit+(-0.0200)Arg;0.806,0.832,0.726,0.695,0.715,0.831,0.756,0.749,(3.3559)+(0.0403)Ser+(-0.1399)His+(-0.0061)Ala+(0.0096)Pro+(-0.0137)Tyr+(0.0213)Leu;0.806,0.830,0.761,0.747,0.767,0.843,0.730,0.772,(2.4850)+(0.0330)Ser+(0.0084)Gln+(-0.1553)His+(-0.0260)Cit+(-0.0191)Arg+(0.0066)Val;0.806,0.841,0.787,0.806,0.783,0.738,0.784,0.778,(3.5944)+(-0.0007)Gly+(0.0053)Pro+(-0.0392)Tyr+(-0.0032)Leu+(0.0899)Phe+(-0.1590)Trp;0.806,0.837,0.789,0.786,0.728,0.841,0.888,0.811,(2.7689)+(-0.1756)Asn+(0.0042)Gln+(-0.0034)Pro+(-0.0602)Val+(0.1646)Ile+(0.0627)Phe;0.806,0.836,0.775,0.741,0.782,0.805,0.828,0.789,(4.1267)+(-0.1234)His+(0.0016)Pro+(-0.2345)Met+(0.0027)Lys+(0.0449)Ile+(0.0939)Phe;0.806,0.835,0.765,0.764,0.692,0.832,0.868,0.789,(2.0073

)+(0.0102)Thr+(-0.0107)Ala+(-0.0339)Arg+(-0.0608)Val+(0.1836)Ile+(0.0545)Phe;0.806,0.847,0.769,0.760,0.750,0.801,0.807,0.780,(-0.1922)+(0.0188)Thr+(-0.3788)Met+(-0.0063)Lys+(0.1698)Ile+(-0.0909)Leu+(0.1127)Phe;0.806,0.844,0.754,0.741,0.774,0.851,0.678,0.761,(4.8871)+(0.0351)Ser+(-0.1220)His+(0.0164)Thr+(-0.0167)Arg+(-0.1482)Met+(0.0301)Orn;0.806,0.843,0.834,0.842,0.831,0.805,0.836,0.829,(4.8960)+(-0.0546)Asn+(-0.0048)Ala+(-0.0103)Arg+(0.0049)Lys+(0.0881)Phe+(-0.1512)Trp;0.806,0.840,0.760,0.739,0.769,0.858,0.729,0.774,(4.1043)+(0.0387)Ser+(-0.1212)His+(-0.0012)Ala+(0.0123)Tyr+(-0.1352)Met+(0.0304)Orn;0.806,0.836,0.752,0.737,0.749,0.839,0.733,0.764,(3.2505)+(0.0280)Ser+(0.0053)Gln+(-0.1457)His+(-0.0101)Tyr+(0.0245)Orn+(-0.0054)Lys;0.806,0.836,0.717,0.671,0.732,0.826,0.727,0.739,(3.3763)+(0.0393)Ser+(-0.1506)His+(0.0022)Thr+(0.0201)Orn+(-0.0115)Lys+(0.0222)Leu;0.806,0.837,0.796,0.786,0.775,0.821,0.851,0.808,(5.2802)+(0.0006)Gly+(-0.0092)Ala+(0.0054)Pro+(-0.0055)Lys+(0.0667)Ile+(-0.15
11)Trp;0.806,0.834,0.845,0.854,0.850,0.842,0.811,0.839,(5.7941)+(-0.0782)Asn+(0.0083)Gln+(-0.0739)Cit+(0.0028)Val+(0.0024)Lys+(-0.1487)Trp;0.806,0.838,0.773,0.760,0.786,0.821,0.745,0.778,(3.8282)+(0.0085)Gly+(-0.1220)His+(-0.0398)Cit+(-0.0025)Val+(-0.1911)Met+(0.1385)Phe;0.806,0.834,0.744,0.709,0.739,0.815,0.791,0.764,(1.3493)+(0.0039)Gly+(0.0083)Gln+(-0.1677)His+(-0.0536)Cit+(0.0355)Ile+(0.0583)Phe;0.806,0.848,0.816,0.827,0.825,0.775,0.799,0.806,(2.6273)+(0.0041)Gln+(-0.0221)Arg+(0.0029)Pro+(-0.0027)Lys+(0.0769)Phe+(-0.1748)Trp;0.806,0.841,0.761,0.756,0.750,0.822,0.756,0.771,(-0.3075)+(0.0084)Gly+(-0.0926)Cit+(-0.3316)Met+(0.1882)Ile+(-0.0989)Leu+(0.1284)Phe;0.806,0.834,0.756,0.732,0.737,0.822,0.815,0.776,(3.1608)+(0.0068)Gln+(-0.1420)His+(-0.0005)Thr+(0.0100)Orn+(0.0942)Ile+(-0.0386)Leu;0.806,0.834,0.770,0.755,0.779,0.809,0.760,0.776,(3.6074)+(0.0093)Asn+(0.0071)Gly+(-0.1321)His+(-0

.0014)Arg+(-0.2056)Met+(0.1305)Phe;0.806,0.832,0.741,0.706,0.728,0.825,0.800,0.765,(5.6114)+(-0.0915)His+(-0.0538)Cit+(-0.0129)Arg+(-0.0391)Val+(0.0464)Orn+(0.1320)Ile;0.806,0.829,0.764,0.744,0.729,0.833,0.842,0.787,(6.5714)+(-0.0541)Asn+(-0.0685)His+(-0.0333)Cit+(-0.0373)Val+(0.1479)Ile+(-0.0082)Leu;0.806,0.838,0.796,0.787,0.779,0.837,0.824,0.807,(2.2289)+(0.0115)Gln+(-0.1646)His+(-0.0040)Ala+(-0.0214)Arg+(-0.0005)Lys+(0.0855)Phe;0.806,0.837,0.756,0.724,0.749,0.823,0.807,0.776,(3.5012)+(0.0078)Gln+(-0.1590)His+(0.0071)Thr+(0.0101)Orn+(-0.0107)Lys+(0.0459)Ile;0.806,0.836,0.812,0.823,0.821,0.837,0.749,0.807,(7.1682)+(-0.0479)Asn+(0.0233)Thr+(-0.0022)Ala+(-0.1235)Met+(0.0202)Orn+(-0.1358)Trp;0.806,0.836,0.726,0.676,0.757,0.843,0.709,0.746,(3.7957)+(0.0403)Ser+(-0.1347)His+(-0.0660)Cit+(0.0429)Orn+(-0.0141)Lys+(0.0203)Leu;0.806,0.836,0.756,0.735,0.758,0.852,0.739,0.771,(4.6858)+(0.0388)Ser+(-0.0659)Asn+(-0.1191)His+(-0.0025)Ala+(0.0312)Orn+(0.0001)Lys;0.806,0.834,0.729,0.726,0.731,0.774,0.702,0.733,(4.6522)+(0.0024)Gly+(-0.1504)His+(0.0277)Thr+(-0.0225)Arg+(-0.0566)Tyr+(0.1149)Phe;0.806,0.833,0.785,0.778,0.772,0.821,0.805,0.794,(2.1635)+(0.0114)Gln+(-0.1673)His+(-0.0234)Arg+(-0.0048)Val+(-0.0000)Lys+(0.0874)Phe;0.806,0.842,0.802,0.795,0.805,0.781,0.830,0.803,(4.5252)+(-0.0479)Asn+(-0.0107)Arg+(-0.0031)Lys+(0.0425)Ile+(0.0603)Phe+(-0.1672)Trp;0.806,0.837,0.800,0.787,0.815,0.818,0.794,0.803,(8.4370)+(-0.0753)His+(-0.0436)Cit+(0.0053)Arg+(0.0071)Pro+(0.0072)Val+(-0.1174)Trp;0.806,0.837,0.779,0.767,0.774,0.822,0.790,0.788,(2.2453)+(0.0104)Gln+(-0.1647)His+(-0.0249)Arg+(-0.0070)Val+(0.0193)Orn+(0.0840)Phe;0.806,0.836,0.783,0.762,0.797,0.820,0.783,0.790,(7.6168)+(0.0043)Gly+(-0.1043)His+(-0.0012)Arg+(0.0132)Tyr+(0.0248)Leu+(-0.1149)Trp;0.806,0.832,0.775,0.768,0.765,0.819,0.782,0.784,(1.9015)+(0.0026)Gly+(0.0108)Gln+(-0.1688)His+(-0.0242)Arg+(-0.0045)Val+(0.0904)Phe;0.806,0.846,0.755,0.756,0.735,0.809,0.753,0

.763,(-2.6323)+(0.0544)Ser+(-0.0873)Asn+(-0.0073)Ala+(0.0144)Pro+(-0.3110)Met+(0.1109)Phe;0.806,0.842,0.785,0.770,0.746,0.849,0.859,0.806,(4.6181)+(-0.0031)Arg+(0.0029)Pro+(0.0155)Tyr+(-0.0562)Val+(-0.3012)Met+(0.1897)Ile;0.806,0.832,0.724,0.688,0.730,0.784,0.765,0.742,(3.8578)+(-0.0707)Asn+(0.0056)Gly+(-0.1503)His+(0.0160)Thr+(0.0299)Ile+(0.0659)Phe;0.806,0.830,0.785,0.769,0.770,0.839,0.817,0.799,(5.0153)+(-0.1171)Asn+(0.0099)Gln+(-0.1376)His+(0.0203)Thr+(-0.0279)Val+(0.0555)Leu;0.806,0.836,0.789,0.777,0.772,0.835,0.820,0.801,(3.7839)+(-0.0452)Asn+(0.0120)Gln+(-0.1439)His+(-0.0160)Arg+(-0.0210)Tyr+(0.0496)Ile;0.806,0.847,0.812,0.824,0.821,0.783,0.781,0.802,(3.9836)+(-0.0214)Arg+(-0.0092)Val+(0.0198)Orn+(0.0014)Lys+(0.0836)Phe+(-0.1563)Trp;0.806,0.837,0.794,0.784,0.779,0.836,0.826,0.806,(2.1974)+(0.0114)Gln+(-0.1656)His+(-0.0042)Ala+(-0.0215)Arg+(0.0024)Leu+(0.0825)Phe;0.806,0.832,0.792,0.789,0.717,0.870,0.897,0.818,(4.4876)+(-0.1268)Asn+(0.0038)Gln+(-0.0085)Ala+(0.0055)Pro+(-0.0542)Val+(0.1715)Ile;0.806,0.831,0.756,0.741,0.715,0.826,0.831,0.778,(4.0231)+(0.0057)Gln+(-0.1156)His+(-0.0011)Pro+(-0.0210)Tyr+(-0.0287)Val+(0.1180)Ile;0.806,0.831,0.729,0.695,0.720,0.836,0.763,0.754,(3.5319)+(0.0367)Ser+(-0.1433)His+(0.0059)Thr+(-0.0039)Ala+(-0.0170)Val+(0.0482)Leu;0.806,0.842,0.821,0.824,0.810,0.826,0.832,0.823,(4.8622)+(0.0056)Gln+(0.0090)Pro+(-0.0274)Val+(-0.1931)Met+(0.0553)Leu+(-0.1341)Trp;0.806,0.841,0.794,0.793,0.797,0.765,0.812,0.792,(2.4245)+(0.0038)Gln+(-0.0247)Arg+(-0.0017)Orn+(0.0419)Ile+(0.0551)Phe+(-0.1866)Trp;0.806,0.840,0.773,0.774,0.764,0.744,0.808,0.773,(3.3316)+(-0.0005)Gly+(0.0002)Pro+(-0.0392)Tyr+(0.0431)Ile+(0.0668)Phe+(-0.1728)Trp;0.806,0.840,0.773,0.774,0.764,0.743,0.808,0.772,(3.3273)+(-0.0004)Gly+(-0.0387)Tyr+(-0.0016)Orn+(0.0438)Ile+(0.0676)Phe+(-0.1732)Trp;0.806,0.839,0.820,0.834,0.830,0.835,0.753,0.813,(4.9391)+(0.0047)Gln+(0.0215)Thr+(0.0177)Tyr+(-0.0003)Val+(-0.2154)Met+(-0.1

505)Trp;0.806,0.839,0.807,0.801,0.782,0.829,0.860,0.818,(4.1734)+(0.0037)Gln+(-0.0086)Ala+(0.0057)Orn+(-0.0087)Lys+(0.0694)Ile+(-0.1561)Trp;0.806,0.838,0.815,0.832,0.816,0.838,0.755,0.810,(5.1125)+(0.0042)Gln+(0.0197)Thr+(-0.0024)Ala+(-0.1760)Met+(0.0153)Orn+(-0.1434)Trp;0.806,0.836,0.794,0.783,0.813,0.827,0.758,0.795,(8.0437)+(0.0052)Gly+(-0.0838)His+(-0.0514)Cit+(0.0074)Arg+(0.0113)Val+(-0.1159)Trp;0.806,0.836,0.768,0.751,0.752,0.833,0.797,0.783,(3.4206)+(0.0094)Gln+(-0.1361)His+(-0.0272)Arg+(0.0153)Orn+(0.1075)Ile+(-0.0467)Leu;0.806,0.847,0.795,0.800,0.803,0.751,0.797,0.788,(2.4359)+(0.0017)Gln+(0.0035)Thr+(0.0010)Pro+(-0.0005)Orn+(0.0653)Phe+(-0.1816)Trp;0.806,0.837,0.766,0.777,0.761,0.809,0.717,0.766,(-2.2920)+(0.0487)Ser+(-0.1003)Asn+(0.0153)Thr+(-0.0038)Ala+(-0.3233)Met+(0.1134)Phe;0.806,0.836,0.810,0.826,0.816,0.827,0.743,0.803,(4.9400)+(0.0041)Gln+(0.0194)Thr+(-0.1935)Met+(0.0128)Orn+(0.0010)Lys+(-0.1463)Trp;0.806,0.835,0.730,0.708,0.724,0.789,0.760,0.745,(3.7828)+(0.0061)Gly+(-0.1351)His+(-0.0492)Cit+(-0.0463)Tyr+(0.0439)Ile+(0.0876)Phe;0.806,0.836,0.801,0.794,0.789,0.825,0.832,0.810,(5.4771)+(0.0022)Gly+(-0.0055)Ala+(-0.1410)Met+(0.0013)Lys+(0.0752)Ile+(-0.1403)Trp;0.806,0.834,0.774,0.763,0.780,0.815,0.764,0.780,(3.7107)+(0.0033)Asn+(0.0070)Gly+(-0.1274)His+(-0.0036)Val+(-0.1990)Met+(0.1354)Phe;0.806,0.832,0.766,0.750,0.733,0.838,0.826,0.787,(3.8355)+(0.0004)Gly+(0.0082)Gln+(-0.1186)His+(-0.0251)Arg+(-0.0317)Val+(0.1224)Ile;0.806,0.844,0.827,0.834,0.831,0.791,0.825,0.820,(3.7475)+(-0.0027)Ala+(-0.1972)Met+(0.0054)Lys+(0.0027)Leu+(0.1086)Phe+(-0.1459)Trp;0.806,0.843,0.779,0.796,0.781,0.745,0.754,0.769,(3.1734)+(0.0114)Thr+(-0.0445)Tyr+(0.0039)Orn+(-0.0028)Leu+(0.0909)Phe+(-0.1658)Trp;0.806,0.833,0.733,0.725,0.727,0.776,0.737,0.741,(4.3980)+(0.0016)Gly+(-0.1484)His+(0.0232)Thr+(-0.0525)Tyr+(-0.0064)Lys+(0.1095)Phe;0.806,0.831,0.759,0.745,0.745,0.844,0.764,0.774,(2.6955)+(0.0303)Ser+(0.0062)

Gln+(-0.1542)His+(-0.0033)Ala+(-0.0075)Tyr+(0.0080)Val;0.806,0.828,0.766,0.750,0.727,0.832,0.840,0.787,(6.8739)+(-0.0506)Asn+(-0.0670)His+(-0.0322)Cit+(-0.0159)Tyr+(-0.0388)Val+(0.1441)Ile;0.806,0.844,0.779,0.778,0.771,0.760,0.813,0.781,(3.6313)+(0.0002)Pro+(-0.0344)Tyr+(-0.0087)Lys+(0.0483)Ile+(0.0715)Phe+(-0.1666)Trp;0.806,0.842,0.775,0.747,0.773,0.805,0.830,0.789,(4.3023)+(-0.1229)His+(0.0049)Arg+(-0.0204)Tyr+(-0.2043)Met+(0.0492)Ile+(0.1002)Phe;0.806,0.841,0.785,0.779,0.762,0.812,0.831,0.796,(4.9322)+(0.0091)Thr+(-0.0093)Ala+(0.0049)Pro+(-0.0138)Tyr+(0.0632)Ile+(-0.1589)Trp;0.806,0.840,0.808,0.806,0.784,0.826,0.850,0.817,(4.1529)+(0.0044)Gln+(-0.0095)Ala+(-0.0181)Arg+(0.0057)Pro+(0.0639)Ile+(-0.1599)Trp;0.806,0.838,0.804,0.795,0.783,0.827,0.858,0.816,(5.9928)+(-0.0376)Asn+(-0.0083)Ala+(0.0060)Pro+(-0.0049)Tyr+(0.0615)Ile+(-0.1461)Trp;0.806,0.838,0.807,0.804,0.831,0.817,0.759,0.803,(7.8142)+(-0.0707)Asn+(0.0217)Thr+(-0.0739)Cit+(-0.0005)Arg+(0.0147)Leu+(-0.1608)Trp;0.806,0.835,0.795,0.781,0.818,0.831,0.758,0.797,(7.9932)+(0.0058)Gly+(-0.0861)His+(-0.0491)Cit+(0.0189)Tyr+(0.0101)Val+(-0.1207)Trp;0.806,0.845,0.809,0.817,0.814,0.759,0.812,0.801,(2.6116)+(-0.0012)Gly+(0.0024)Gln+(0.0035)Orn+(-0.0034)Leu+(0.0669)Phe+(-0.1753)Trp;0.806,0.839,0.805,0.795,0.785,0.827,0.859,0.817,(5.9842)+(-0.0357)Asn+(-0.0085)Ala+(0.0058)Pro+(-0.0018)Lys+(0.0625)Ile+(-0.1465)Trp;0.806,0.843,0.806,0.824,0.804,0.769,0.792,0.797,(4.5230)+(-0.0663)Asn+(0.0009)Gly+(-0.0291)Tyr+(0.0142)Orn+(0.0857)Phe+(-0.1451)Trp;0.806,0.836,0.729,0.720,0.735,0.775,0.710,0.735,(4.8415)+(-0.1496)His+(0.0267)Thr+(-0.0232)Arg+(-0.0630)Tyr+(0.0239)Orn+(0.1063)Phe;0.806,0.835,0.779,0.757,0.772,0.827,0.817,0.793,(2.2870)+(0.0107)Gln+(-0.1637)His+(-0.0459)Cit+(-0.0096)Lys+(0.0052)Leu+(0.0797)Phe;0.806,0.831,0.772,0.761,0.719,0.827,0.870,0.794,(2.9866)+(-0.2108)Asn+(0.0030)Gln+(0.0171)Thr+(-0.0633)Val+(0.1649)Ile+(0.0655)Phe;0.806,0.831,0.745,0.733,0

.729,0.810,0.765,0.759,(6.3031)+(-0.1081)His+(0.0178)Thr+(-0.0192)Arg+(-0.0349)Tyr+(0.1148)Ile+(-0.0442)Leu;0.806,0.840,0.758,0.741,0.764,0.853,0.720,0.769,(4.1722)+(0.0372)Ser+(-0.1210)His+(-0.0009)Ala+(-0.1251)Met+(0.0310)Orn+(0.0027)Lys;0.806,0.837,0.746,0.711,0.756,0.833,0.754,0.763,(4.2313)+(0.0460)Ser+(-0.0712)Asn+(-0.0039)Gly+(-0.1254)His+(0.0059)Pro+(0.0243)Orn;0.806,0.833,0.768,0.764,0.715,0.825,0.848,0.788,(3.4634)+(-0.1444)Asn+(0.0045)Gly+(-0.0152)Arg+(-0.0617)Val+(0.1683)Ile+(0.0704)Phe;0.806,0.832,0.777,0.761,0.769,0.851,0.781,0.791,(3.2627)+(0.0366)Ser+(-0.0053)Gly+(0.0074)Gln+(-0.1399)His+(-0.0293)Cit+(-0.0049)Lys;0.806,0.832,0.743,0.704,0.750,0.828,0.766,0.762,(4.0240)+(0.0509)Ser+(-0.0515)Asn+(-0.0036)Gly+(-0.1343)His+(-0.0060)Lys+(0.0233)Leu;0.806,0.832,0.783,0.779,0.723,0.833,0.881,0.804,(2.6474)+(-0.1701)Asn+(0.0039)Gln+(-0.0531)Val+(0.1745)Ile+(-0.0220)Leu+(0.0634)Phe;0.806,0.831,0.777,0.773,0.705,0.859,0.878,0.804,(5.1886)+(-0.1105)Asn+(0.0028)Gly+(-0.0087)Ala+(0.0065)Pro+(-0.0544)Val+(0.1746)Ile;0.806,0.831,0.765,0.747,0.724,0.831,0.852,0.789,(6.3610)+(-0.0659)Asn+(-0.0778)His+(-0.0008)Pro+(-0.0403)Val+(0.0037)Lys+(0.1393)Ile;0.806,0.848,0.780,0.767,0.796,0.774,0.783,0.780,(3.7125)+(0.0153)Thr+(-0.0234)Arg+(-0.0100)Lys+(0.0452)Ile+(0.0615)Phe+(-0.1829)Trp;0.806,0.846,0.833,0.837,0.839,0.803,0.835,0.829,(3.9857)+(-0.0030)Ala+(0.0079)Tyr+(-0.1936)Met+(0.0052)Leu+(0.1071)Phe+(-0.1446)Trp;0.806,0.841,0.795,0.783,0.777,0.824,0.843,0.807,(5.4160)+(-0.0009)Gly+(0.0137)Thr+(-0.0087)Ala+(-0.0094)Lys+(0.0708)Ile+(-0.1582)Trp;0.806,0.840,0.771,0.773,0.763,0.743,0.805,0.771,(3.2

412)+(0.0002)Pro+(-0.0387)Tyr+(-0.0021)Orn+(0.0438)Ile+(0.0680)Phe+(-0.1736)Trp;0.806,0.838,0.846,0.856,0.851,0.859,0.800,0.842,(5.8258)+(-0.0827)Asn+(0.0024)Gly+(0.0082)Gln+(-0.0760)Cit+(0.0102)Tyr+(-0.1450)Trp;0.806,0.837,0.815,0.833,0.822,0.829,0.744,0.807,(5.0371)+(0.0045

)Gln+(0.0211)Thr+(0.0000)Val+(-0.1943)Met+(0.0022)Lys+(-0.1475)Trp;0.806,0.833,0.781,0.767,0.747,0.845,0.844,0.801,(6.0300)+(-0.0954)His+(-0.0072)Ala+(-0.0138)Arg+(0.0063)Lys+(0.1352)Ile+(-0.0565)Leu;0.806,0.843,0.793,0.794,0.807,0.747,0.795,0.786,(3.2457)+(-0.0013)Gly+(0.0061)Thr+(0.0010)Pro+(0.0016)Orn+(0.0640)Phe+(-0.1792)Trp;0.806,0.839,0.790,0.774,0.800,0.823,0.789,0.796,(7.8060)+(0.0044)Gly+(-0.0957)His+(0.0050)Arg+(-0.0621)Met+(0.0287)Leu+(-0.1066)Trp;0.806,0.836,0.777,0.788,0.783,0.800,0.720,0.773,(-2.9074)+(0.0522)Ser+(-0.1057)Asn+(0.0047)Gln+(-0.0846)Cit+(-0.3011)Met+(0.1191)Phe;0.806,0.831,0.753,0.733,0.742,0.799,0.793,0.767,(1.9150)+(0.0016)Gly+(0.0076)Gln+(-0.1771)His+(0.0064)Thr+(-0.0011)Pro+(0.0731)Phe;0.806,0.835,0.741,0.700,0.746,0.795,0.802,0.761,(4.8592)+(-0.0460)Asn+(-0.1457)His+(0.0208)Thr+(-0.0096)Lys+(0.0322)Ile+(0.0632)Phe;0.806,0.833,0.775,0.770,0.747,0.834,0.805,0.789,(3.7032)+(0.0099)Gln+(-0.1252)His+(-0.0242)Arg+(-0.0234)Tyr+(0.1151)Ile+(-0.0450)Leu;0.806,0.833,0.766,0.737,0.747,0.840,0.830,0.788,(6.2992)+(-0.0293)Asn+(-0.1262)His+(0.0186)Thr+(-0.0066)Ala+(-0.0048)Lys+(0.0585)Ile;0.806,0.840,0.757,0.729,0.785,0.857,0.699,0.768,(4.4150)+(0.0388)Ser+(-0.1118)His+(-0.0659)Cit+(0.0061)Tyr+(-0.1354)Met+(0.0488)Orn;0.806,0.839,0.768,0.747,0.755,0.836,0.802,0.785,(5.5261)+(0.0050)Gly+(-0.0958)His+(0.0043)Tyr+(-0.1713)Met+(0.1326)Ile+(-0.0471)Leu;0.806,0.835,0.768,0.749,0.781,0.809,0.762,0.775,(3.6307)+(0.0074)Gly+(-0.1334)His+(-0.0002)Arg+(-0.2064)Met+(0.0062)Leu+(0.1242)Phe;0.806,0.834,0.760,0.766,0.675,0.821,0.879,0.785,(2.3798)+(-0.0018)Gln+(-0.0095)Ala+(-0.0445)Tyr+(-0.0535)Val+(0.1688)Ile+(0.0648)Phe;0.806,0.840,0.839,0.835,0.854,0.837,0.819,0.836,(4.7712)+(0.0072)Gln+(-0.0733)Cit+(0.0232)Tyr+(-0.1532)Met+(0.0184)Leu+(-0.1592)Trp;0.806,0.840,0.844,0.847,0.856,0.860,0.799,0.841,(5.0882)+(0.0018)Gly+(0.0070)Gln+(-0.0692)Cit+(0.0275)Tyr+(-0.1367)Met+(-0.1465)Trp;0.806,0.838,0.

754,0.725,0.738,0.816,0.822,0.775,(3.9990)+(-0.1089)His+(-0.0502)Cit+(-0.0048)Lys+(0.1167)Ile+(-0.0605)Leu+(0.0806)Phe;0.806,0.837,0.789,0.782,0.783,0.860,0.767,0.798,(3.3987)+(0.0348)Ser+(-0.0908)Asn+(0.0091)Gln+(-0.1257)His+(-0.0376)Cit+(0.0012)Lys;0.806,0.834,0.751,0.714,0.751,0.847,0.782,0.773,(5.1590)+(0.0060)Gly+(-0.1152)His+(-0.0091)Ala+(-0.0861)Cit+(0.0441)Orn+(0.0601)Ile;0.806,0.833,0.773,0.748,0.766,0.848,0.798,0.790,(5.9782)+(0.0075)Gly+(-0.0991)His+(-0.0061)Ala+(-0.0535)Cit+(-0.1276)Met+(0.0798)Ile;0.806,0.833,0.774,0.765,0.712,0.862,0.863,0.801,(3.4477)+(0.0026)Gly+(-0.0113)Ala+(-0.0800)Cit+(-0.0354)Val+(0.2036)Ile+(-0.0393)Leu;0.806,0.832,0.712,0.673,0.719,0.796,0.740,0.732,(0.9025)+(0.0466)Ser+(-0.0015)Gly+(-0.1605)His+(-0.0329)Cit+(0.0015)Pro+(0.0905)Phe;0.806,0.839,0.786,0.772,0.745,0.854,0.857,0.807,(4.6818)+(-0.0039)Arg+(0.0150)Tyr+(-0.0512)Val+(-0.2857)Met+(0.2042)Ile+(-0.0165)Leu;0.806,0.835,0.813,0.827,0.826,0.816,0.749,0.805,(7.4415)+(-0.0477)Asn+(-0.0016)Gly+(0.0262)Thr+(-0.1453)Met+(0.0055)Lys+(-0.1429)Trp;0.806,0.834,0.790,0.781,0.810,0.823,0.752,0.791,(7.9124)+(0.0050)Gly+(-0.0880)His+(-0.0431)Cit+(0.0093)Val+(0.0073)Lys+(-0.1169)Trp;0.806,0.828,0.740,0.716,0.738,0.827,0.747,0.757,(2.2183)+(0.0323)Ser+(0.0059)Gln+(-0.1583)His+(-0.0046)Thr+(0.0047)Pro+(0.0038)Val;0.806,0.840,0.809,0.808,0.802,0.813,0.823,0.812,(4.4730)+(-0.1072)Asn+(0.0050)Gln+(0.0123)Thr+(-0.0024)Pro+(0.0482)Ile+(-0.1634)Trp;0.806,0.839,0.767,0.761,0.761,0.809,0.764,0.774,(2.8431)+(0.0273)Ser+(-0.0035)Thr+(-0.0246)Val+(0.0150)Orn+(0.0464)Leu+(-0.1572)Trp;0.806,0.838,0.823,0.821,0.829,0.835,0.807,0.823,(8.1608)+(-0.0270)Asn+(-0.0060)Ala+(-0.0700)Cit+(0.0133)Pro+(0.0038)Val+(-0.1385)Trp;0.806,0.838,0.706,0.660,0.724,0.809,0.718,0.728,(0.7987)+(0.0423)Ser+(-0.1600)His+(-0.0573)Cit+(-0.0001)Pro+(0.0275)Orn+(0.0853)Phe;0.806,0.839,0.752,0.731,0.754,0.840,0.743,0.767,(3.8105)+(0.0489)Ser+(-0.0040)Gly+(-0.1154)Hi

s+(0.0126)Pro+(-0.1783)Met+(0.0054)Lys;0.806,0.837,0.841,0.844,0.847,0.839,0.820,0.838,(5.5948)+(-0.0781)Asn+(0.0082)Gln+(-0.0787)Cit+(0.0022)Arg+(0.0146)Leu+(-0.1562)Trp;0.806,0.835,0.807,0.818,0.821,0.821,0.741,0.800,(6.9167)+(-0.0509)Asn+(0.0224)Thr+(-0.1434)Met+(0.0168)Orn+(0.0038)Lys+(-0.1408)Trp;0.806,0.835,0.781,0.783,0.769,0.854,0.752,0.789,(2.8685)+(0.0316)Ser+(0.0074)Gln+(-0.1329)His+(0.0004)Ala+(-0.1418)Met+(0.0041)Lys;0.806,0.830,0.755,0.742,0.713,0.824,0.827,0.777,(3.9738)+(0.0056)Gln+(-0.1127)His+(-0.0227)Tyr+(-0.0255)Val+(0.1251)Ile+(-0.0112)Leu;0.806,0.844,0.800,0.788,0.814,0.829,0.782,0.803,(8.2479)+(-0.0893)His+(-0.0030)Arg+(0.0049)Val+(-0.0343)Met+(0.0361)Orn+(-0.1014)Trp;0.806,0.844,0.804,0.824,0.798,0.763,0.795,0.795,(2.5848)+(0.0033)Gln+(-0.0361)Tyr+(0.0083)Orn+(-0.0063)Lys+(0.0880)Phe+(-0.1605)Trp;0.806,0.841,0.800,0.794,0.804,0.776,0.823,0.799,(4.5125)+(-0.0529)Asn+(-0.0130)Arg+(0.0051)Orn+(0.0391)Ile+(0.0567)Phe+(-0.1677)Trp;0.806,0.838,0.808,0.802,0.814,0.830,0.795,0.810,(8.8118)+(-0.0138)Asn+(-0.0644)His+(-0.0399)Cit+(0.0050)Arg+(0.0093)Pro+(-0.1077)Trp;0.806,0.834,0.798,0.793,0.816,0.826,0.753,0.797,(8.4197)+(0.0056)Gly+(-0.0801)His+(-0.0455)Cit+(0.0113)Val+(-0.0218)Met+(-0.1109)Trp;0.806,0.840,0.810,0.808,0.806,0.817,0.823,0.813,(3.8965)+(0.0062)Gln+(-0.0097)Arg+(0.0027)Pro+(-0.1974)Met+(0.0624)Ile+(-0.1484)Trp;0.806,0.838,0.788,0.770,0.798,0.802,0.803,0.793,(7.9519)+(-0.0967)His+(-0.0044)Arg+(0.0057)Pro+(0.0068)Lys+(0.0176)Leu+(-0.1167)Trp;0.806,0.837,0.842,0.856,0.844,0.849,0.794,0.836,(5.7805)+(-0.0850)Asn+(0.0021)Gly+(0.0081)Gln+(-0.0730)Cit+(0.0040)Lys+(-0.1438)Trp;0.806,0.836,0.765,0.746,0.766,0.815,0.775,0.775,(2.1063)+(0.0101)Gln+(-0.1788)His+(0.0125)Thr+(-0.0290)Arg+(0.0086)Orn+(0.0747)Phe;0.806,0.847,0.803,0.806,0.812,0.764,0.802,0.796,(3.5430)+(-0.0003)Gly+(0.0022)Pro+(0.0080)Orn+(-0.0066)Lys+(0.0694)Phe+(-0.1675)Trp;0.806,0.835,0.741,0.712,0.739,0.800,0.777,0

.757,(4.6617)+(-0.1300)His+(-0.0626)Cit+(-0.0556)Tyr+(0.0402)Orn+(0.0342)Ile+(0.0767)Phe;0.806,0.836,0.762,0.738,0.740,0.831,0.819,0.782,(3.2883)+(0.0068)Gln+(-0.1416)His+(-0.0048)Pro+(0.0118)Orn+(0.1030)Ile+(-0.0403)Leu;0.806,0.828,0.762,0.747,0.748,0.807,0.799,0.775,(2.0073)+(0.0018)Gly+(0.0081)Gln+(-0.1688)His+(0.0006)Pro+(-0.0043)Val+(0.0798)Phe;0.806,0.844,0.809,0.821,0.821,0.768,0.786,0.799,(2.6589)+(0.0037)Gln+(-0.0249)Arg+(0.0023)Pro+(0.0077)Orn+(0.0712)Phe+(-0.1760)Trp;0.806,0.841,0.776,0.790,0.791,0.753,0.721,0.764,(3.7912)+(0.0198)Thr+(-0.0271)Arg+(-0.0428)Tyr+(0.0083)Orn+(0.0954)Phe+(-0.1677)Trp;0.806,0.839,0.775,0.733,0.794,0.821,0.811,0.790,(4.3634)+(-0.1168)His+(-0.0499)Cit+(-0.2039)Met+(0.0281)Orn+(0.0411)Ile+(0.0855)Phe;0.806,0.832,0.772,0.759,0.710,0.862,0.872,0.801,(4.0521)+(0.0031)Gly+(-0.0107)Ala+(-0.0751)Cit+(-0.0465)Val+(-0.0099)Lys+(0.1813)Ile;0.806,0.829,0.737,0.711,0.703,0.818,0.820,0.763,(5.0348)+(0.0007)Gly+(-0.1099)His+(0.0095)Thr+(-0.0031)Pro+(-0.0336)Val+(0.1270)Ile;0.806,0.840,0.825,0.835,0.835,0.780,0.813,0.816,(4.1674)+(-0.0223)Asn+(-0.0056)Arg+(-0.1917)Met+(0.0079)Lys+(0.1065)Phe+(-0.1462)Trp;0.806,0.833,0.757,0.730,0.743,0.824,0.813,0.777,(5.9008)+(-0.0396)Asn+(-0.1147)His+(0.0125)Thr+(-0.0038)Pro+(0.1078)Ile+(-0.0422)Leu;0.806,0.832,0.741,0.725,0.720,0.806,0.781,0.758,(5.5233)+(0.0009)Gly+(-0.1149)His+(0.0106)Thr+(-0.0333)Tyr+(0.1072)Ile+(-0.0392)Leu;0.806,0.829,0.749,0.731,0.742,0.835,0.745,0.763,(2.7670)+(0.0316)Ser+(0.0059)Gln+(-0.1486)His+(-0.0020)Thr+(0.0062)Pro+(-0.0050)Lys;0.806,0.840,0.828,0.833,0.824,0.848,0.810,0.829,(5.7354)+(0.0056)Gln+(-0.0069)Ala+(-0.0811)Cit+(0.0137)Pro+(0.0011)Tyr+(-0.1505)Trp;0.806,0.837,0.810,0.804,0.818,0.830,0.795,0.812,(8.9240)+(-0.0022)Asn+(-0.0622)His+(-0.0349)Cit+(0.0104)Pro+(-0.0341)Met+(-0.1042)Trp;0.806,0.836,0.747,0.713,0.758,0.828,0.753,0.763,(3.5778)+(0.0523)Ser+(-0.0183)Asn+(-0.0030)Gly+(-0.1283)His+(-0.1441)Met+(0.

0287)Leu;0.806,0.836,0.802,0.796,0.788,0.824,0.832,0.810,(5.5993)+(0.0023)Gly+(-0.0055)Ala+(-0.0019)Arg+(-0.1341)Met+(0.0759)Ile+(-0.1390)Trp;0.806,0.835,0.802,0.796,0.777,0.822,0.856,0.813,(3.9398)+(-0.0006)Gly+(0.0031)Gln+(-0.0089)Ala+(0.0020)Orn+(0.0653)Ile+(-0.1634)Trp;0.806,0.835,0.818,0.832,0.827,0.835,0.752,0.811,(7.7720)+(-0.0432)Asn+(-0.0017)Gly+(0.0281)Thr+(-0.0014)Ala+(-0.1268)Met+(-0.1375)Trp;0.806,0.832,0.708,0.670,0.717,0.797,0.730,0.728,(0.8360)+(0.0446)Ser+(-0.1610)His+(0.0003)Thr+(-0.0354)Cit+(0.0014)Pro+(0.0918)Phe;0.806,0.831,0.778,0.777,0.705,0.852,0.882,0.804,(5.7977)+(-0.0954)Asn+(-0.0084)Ala+(0.0076)Pro+(-0.0170)Tyr+(-0.0531)Val+(0.1728)Ile;0.806,0.842,0.786,0.772,0.790,0.768,0.829,0.789,(3.4326)+(0.0005)Gly+(-0.0021)Pro+(-0.0110)Lys+(0.0499)Ile+(0.0556)Phe+(-0.1756)Trp;0.806,0.837,0.796,0.785,0.777,0.820,0.850,0.808,(5.3036)+(-0.0092)Ala+(0.0049)Pro+(0.0079)Orn+(-0.0064)Lys+(0.0646)Ile+(-0.1504)Trp;0.806,0.837,0.804,0.812,0.816,0.815,0.750,0.798,(5.5501)+(0.0043)Gln+(0.0091)Thr+(-0.0811)Cit+(0.0076)Pro+(-0.0144)Tyr+(-0.1615)Trp;0.806,0.834,0.798,0.782,0.801,0.817,0.819,0.805,(8.2484)+(-0.0057)Asn+(-0.0947)His+(-0.0022)Ala+(0.0073)Lys+(0.0227)Leu+(-0.1130)Trp;0.806,0.837,0.739,0.717,0.724,0.787,0.794,0.756,(4.4582)+(-0.1410)His+(-0.0006)Pro+(-0.0521)Tyr+(0.0224)Orn+(0.0351)Ile+(0.0741)Phe;0.806,0.836,0.814,0.799,0.807,0.832,0.854,0.823,(5.6470)+(-0.0060)Ala+(0.0218)Tyr+(-0.1642)Met+(0.0011)Lys+(0.0735)Ile+(-0.1453)Trp;0.806,0.836,0.789,0.787,0.784,0.865,0.749,0.796,(3.1545)+(0.0320)Ser+(0.0081)Gln+(-0.1246)His+(0.0002)Ala+(-0.0329)Cit+(-0.1211)Met;0.806,0.832,0.793,0.785,0.821,0.817,0.740,0.791,(6.7931)+(0.0012)Gly+(0.0168)Thr+(-0.0832)Cit+(-0.0084)Lys+(0.0199)Leu+(-0.1697)Trp;0.806,0.832,0.739,0.734,0.729,0.775,0.748,0.746,(4.6276)+(-0.1437)His+(0.0244)Thr+(-0.0530)Tyr+(-0.0036)Val+(-0.0055)Lys+(0.1137)Phe;0.806,0.832,0.765,0.747,0.724,0.834,0.851,0.789,(6.3975)+(-0.0574)Asn+

(-0.0759)His+(-0.0010)Pro+(-0.0383)Val+(0.1439)Ile+(-0.0047)Leu;0.806,0.831,0.768,0.758,0.731,0.834,0.822,0.786,(4.1141)+(0.0082)Gln+(-0.1134)His+(-0.0236)Arg+(-0.0165)Tyr+(-0.0308)Val+(0.1242)Ile;0.806,0.831,0.777,0.764,0.715,0.857,0.885,0.805,(4.4935)+(-0.0103)Ala+(-0.0654)Cit+(-0.0030)Arg+(-0.0480)Val
+(-0.0080)Lys+(0.1815)Ile;0.806,0.828,0.729,0.703,0.725,0.818,0.739,0.746,(2.2737)+(0.0322)Ser+(0.0052)Gln+(-0.1595)His+(0.0044)Pro+(-0.0216)Tyr+(0.0183)Leu;0.806,0.828,0.710,0.666,0.712,0.818,0.741,0.734,(3.0668)+(0.0352)Ser+(-0.1470)His+(0.0031)Pro+(-0.0208)Val+(0.0205)Orn+(0.0444)Leu;0.806,0.840,0.793,0.790,0.767,0.820,0.836,0.803,(4.0879)+(0.0025)Gln+(0.0076)Thr+(-0.0087)Ala+(-0.0124)Tyr+(0.0663)Ile+(-0.1638)Trp;0.806,0.838,0.814,0.827,0.823,0.830,0.752,0.808,(4.8251)+(0.0042)Gln+(0.0196)Thr+(0.0143)Tyr+(-0.2124)Met+(0.0111)Orn+(-0.1495)Trp;0.806,0.836,0.829,0.840,0.837,0.854,0.769,0.825,(5.9877)+(0.0047)Gln+(0.0141)Thr+(-0.0037)Ala+(-0.0752)Cit+(-0.0034)Lys+(-0.1524)Trp;0.806,0.834,0.751,0.733,0.758,0.841,0.721,0.763,(2.6744)+(0.0316)Ser+(0.0069)Gln+(-0.1528)His+(-0.0255)Arg+(0.0051)Pro+(0.0192)Orn;0.806,0.832,0.766,0.760,0.750,0.852,0.756,0.779,(3.2908)+(0.0281)Ser+(0.0061)Gln+(-0.1435)His+(0.0021)Thr+(-0.0020)Ala+(-0.0031)Lys;0.806,0.829,0.753,0.739,0.669,0.853,0.894,0.789,(0.6725)+(0.0373)Ser+(-0.0080)Gly+(-0.0097)Thr+(-0.0110)Ala+(-0.0512)Val+(0.1741)Ile;0.806,0.844,0.831,0.836,0.835,0.801,0.829,0.825,(4.0925)+(-0.0028)Ala+(-0.0027)Arg+(-0.1783)Met+(0.0050)Leu+(0.1093)Phe+(-0.1429)Trp;0.806,0.837,0.802,0.801,0.794,0.828,0.803,0.806,(3.7388)+(0.0365)Ser+(-0.0076)Gly+(-0.0009)Thr+(-0.0041)Ala+(0.0182)Orn+(-0.1455)Trp;0.806,0.834,0.762,0.766,0.777,0.793,0.695,0.758,(-1.8469)+(0.0560)Ser+(-0.0875)Asn+(-0.0761)Cit+(-0.0007)Arg+(-0.2940)Met+(0.1205)Phe;0.806,0.833,0.834,0.850,0.820,0.840,0.817,0.832,(5.3846)+(-0.0500)Asn+(0.0071)Gln+(-0.0040)Ala+(0.0113)Pro+

(-0.1086)Met+(-0.1289)Trp;0.806,0.845,0.802,0.806,0.811,0.754,0.806,0.794,(2.6792)+(-0.0017)Gly+(0.0019)Gln+(0.0050)Thr+(0.0002)Orn+(0.0639)Phe+(-0.1816)Trp;0.806,0.840,0.782,0.777,0.782,0.798,0.781,0.785,(3.3564)+(0.0372)Ser+(-0.0087)Gly+(0.0052)Pro+(-0.0035)Val+(0.0116)Orn+(-0.1541)Trp;0.806,0.836,0.770,0.733,0.781,0.805,0.821,0.785,(3.8200)+(0.0423)Asn+(-0.1235)His+(-0.0309)Cit+(-0.2583)Met+(0.0531)Ile+(0.0984)Phe;0.806,0.843,0.810,0.828,0.795,0.786,0.812,0.805,(3.7237)+(-0.0044)Ala+(-0.0265)Tyr+(-0.0060)Val+(0.0167)Orn+(0.0943)Phe+(-0.1456)Trp;0.806,0.837,0.748,0.723,0.766,0.839,0.709,0.759,(3.8698)+(0.0468)Ser+(-0.1150)His+(-0.0339)Cit+(0.0114)Pro+(0.0062)Val+(-0.1681)Met;0.806,0.833,0.760,0.730,0.739,0.840,0.830,0.785,(5.8665)+(-0.1293)His+(0.0155)Thr+(-0.0073)Ala+(0.0021)Pro+(-0.0063)Lys+(0.0584)Ile;0.806,0.833,0.728,0.690,0.740,0.823,0.737,0.748,(3.7532)+(0.0465)Ser+(-0.0599)Asn+(-0.1352)His+(0.0048)Pro+(-0.0053)Lys+(0.0206)Leu;0.806,0.832,0.745,0.717,0.733,0.818,0.789,0.764,(5.4257)+(-0.0479)Asn+(0.0035)Gly+(-0.1152)His+(0.0101)Thr+(0.1021)Ile+(-0.0399)Leu;0.806,0.848,0.765,0.763,0.744,0.818,0.779,0.776,(-2.8970)+(0.0469)Ser+(0.0045)Tyr+(-0.0460)Val+(-0.4194)Met+(0.0690)Leu+(0.1261)Phe;0.806,0.841,0.767,0.733,0.749,0.834,0.848,0.791,(4.7298)+(-0.1317)His+(-0.0070)Ala+(0.0201)Orn+(-0.0074)Lys+(0.0447)Ile+(0.0549)Phe;0.806,0.838,0.808,0.796,0.823,0.821,0.799,0.810,(8.7757)+(-0.0694)His+(-0.0380)Cit+(0.0085)Pro+(0.0068)Val+(-0.0373)Met+(-0.1122)Trp;0.806,0.838,0.751,0.733,0.756,0.839,0.723,0.763,(3.9670)+(0.0454)Ser+(-0.0336)Asn+(-0.1134)His+(0.0122)Pro+(-0.1598)Met+(0.0071)Lys;0.806,0.834,0.740,0.739,0.739,0.775,0.720,0.743,(5.0857)+(-0.1430)His+(0.0303)Thr+(-0.0233)Arg+(-0.0570)Tyr+(-0.0058)Val+(0.1237)Phe;0.806,0.832,0.776,0.766,0.712,0.862,0.872,0.803,(3.6897)+(0.0034)Thr+(-0.0113)Ala+(-0.0766)Cit+(-0.0368)Val+(0.2025)Ile+(-0.0377)Leu;0.806,0.830,0.763,0.750,0.713,0.819,0.863,0.787,(3.5978

)+(-0.1879)Asn+(0.0171)Thr+(-0.0596)Val+(0.1745)Ile+(-0.0123)Leu+(0.0692)Phe;0.806,0.837,0.740,0.699,0.752,0.853,0.742,0.761,(3.6469)+(0.0375)Ser+(-0.1330)His+(-0.0064)Ala+(-0.0708)Cit+(0.0425)Orn+(0.0200)Leu;0.806,0.835,0.783,0.765,0.795,0.824,0.773,0.789,(8.0048)+(0.0054)Gly+(-0.0850)His+(-0.0414)Cit+(-0.0127)Val+(0.0486)Leu+(-0.1167)Trp;0.806,0.833,0.749,0.729,0.761,0.844,0.709,0.761,(3.2944)+(0.0279)Ser+(0.0052)Gln+(-0.1368)His+(-0.0680)Cit+(-0.0189)Tyr+(0.0430)Orn;0.806,0.837,0.806,0.805,0.827,0.817,0.755,0.801,(7.8624)+(-0.0700)Asn+(0.0223)Thr+(-0.0734)Cit+(-0.0057)Tyr+(0.0152)Leu+(-0.1591)Trp;0.806,0.837,0.821,0.830,0.832,0.841,0.760,0.816,(7.3834)+(-0.0427)Asn+(0.0265)Thr+(-0.0019)Ala+(0.0179)Tyr+(-0.1485)Met+(-0.1416)Trp;0.806,0.838,0.780,0.774,0.779,0.790,0.792,0.784,(2.9543)+(0.0405)Ser+(-0.0083)Gly+(-0.0060)Thr+(0.0050)Pro+(0.0115)Orn+(-0.1553)Trp;0.806,0.844,0.740,0.723,0.723,0.808,0.770,0.756,(-4.6389)+(0.0482)Ser+(0.0095)Thr+(-0.0075)Ala+(-0.4263)Met+(0.0656)Ile+(0.0875)Phe;0.806,0.836,0.798,0.787,0.778,0.846,0.836,0.812,(2.4911)+(0.0104)Gln+(-0.1531)His+(-0.0045)Ala+(-0.0475)Cit+(-0.0063)Lys+(0.0911)Phe;0.806,0.842,0.806,0.828,0.797,0.751,0.805,0.795,(2.6331)+(-0.0017)Gly+(0.0035)Gln+(-0.0385)Tyr+(-0.0020)Leu+(0.0887)Phe+(-0.1640)Trp;0.806,0.845,0.793,0.794,0.784,0.770,0.825,0.793,(4.4075)+(-0.0487)Asn+(-0.0308)Tyr+(-0.0038)Lys+(0.0443)Ile+(0.0722)Phe+(-0.1589)Trp;0.806,0.842,0.805,0.825,0.799,0.760,0.795,0.795,(3.7121)+(-0.0002)Gly+(-0.0317)Tyr+(-0.0060)Val+(-0.0004)Lys+(0.0999)Phe+(-0.1523)Trp;0.806,0.839,0.785,0.801,0.782,0.739,0.782,0.776,(3.5746)+(-0.0011)Gly+(0.0043)Pro+(-0.0405)Tyr+(0.0080)Orn+(0.0825)Phe+(-0.1605)Trp;0.806,0.831,0.755,0.737,0.722,0.838,0.814,0.778,(6.1304)+(-0.0694)Asn+(0.0052)Gly+(-0.0701)His+(-0.0405)Cit+(-0.0387)Val+(0.1432)Ile;0.806,0.845,0.817,0.822,0.829,0.770,0.810,0.808,(4.7886)+(-0.0616)Asn+(-0.0120)Arg+(0.0038)Pro+(0.0029)Lys+(0.0765)Phe+(-0.1594)Tr

p;0.806,0.841,0.754,0.732,0.763,0.851,0.725,0.768,(3.9139)+(0.0404)Se
r+(-0.1275)His+(-0.0018)Ala+(0.0067)Val+(-0.1260)Met+(0.0274)Orn;0.80
6,0.837,0.752,0.737,0.765,0.842,0.699,0.761,(4.4620)+(0.0398)Ser+(-0.
0274)Asn+(-0.1244)His+(0.0177)Thr+(0.0076)Val+(-0.1596)Met;0.806,0.83
7,0.793,0.784,0.772,0.814,0.848,0.804,(5.1061)+(0.0003)Gly+(-0.0091)A
la+(0.0057)Pro+(-0.0081)Tyr+(0.0635)Ile+(-0.1536)Trp;0.806,0.834,0.78
1,0.768,0.774,0.819,0.805,0.791,(2.0567)+(0.0116)Gln+(-0.1712)His+(-0
.0219)Arg+(0.0007)Pro+(-0.0023)Lys+(0.0787)Phe;0.806,0.839,0.806,0.79
8,0.788,0.825,0.854,0.816,(6.0849)+(-0.0300)Asn+(-0.0085)Ala+(-0.0079
)Arg+(0.0063)Pro+(0.0621)Ile+(-0.1469)Trp;0.806,0.835,0.846,0.854,0.8
52,0.844,0.813,0.841,(5.8279)+(-0.0756)Asn+(0.0084)Gln+(-0.0761)Cit+(
0.0020)Arg+(0.0035)Val+(-0.1485)Trp;0.806,0.833,0.758,0.731,0.758,0.8
25,0.782,0.774,(3.2507)+(0.0097)Gln+(-0.1656)His+(0.0099)Thr+(-0.0257
)Arg+(0.0087)Orn+(0.0415)Ile;0.806,0.838,0.784,0.777,0.783,0.839,0.76
3,0.790,(4.1319)+(0.0095)Gln+(-0.1421)His+(0.0214)Thr+(0.0070)Pro+(0.
0032)Val+(-0.2009)Met;0.806,0.837,0.815,0.820,0.838,0.832,0.745,0.809
,(8.2628)+(-0.0694)Asn+(0.0221)Thr+(-0.0700)Cit+(-0.0013)Tyr+(0.0021)
Val+(-0.1497)Trp;0.806,0.834,0.744,0.717,0.720,0.819,0.811,0.767,(5.6
764)+(-0.0960)His+(-0.0198)Arg+(-0.0021)Pro+(-0.0397)Val+(0.0348)Orn+
(0.1359)Ile;0.806,0.832,0.748,0.734,0.747,0.791,0.754,0.757,(4.6423)+
(-0.0880)Asn+(0.0047)Gly+(-0.1358)His+(0.0214)Thr+(-0.0097)Val+(0.104
2)Phe;0.806,0.831,0.729,0.740,0.671,0.788,0.778,0.744,(1.9497)+(0.018
3)Thr+(-0.0419)Arg+(-0.0698)Tyr+(-0.0594)Val+(0.1660)Ile+(0.0804)Phe;
0.806,0.830,0.769,0.757,0.702,0.861,0.873,0.798,(3.2049)+(0.0020)Gly+
(0.0034)Thr+(-0.0118)Ala+(-0.0776)Cit+(-0.0489)Val+(0.1780)Ile;0.806,
0.843,0.812,0.829,0.810,0.771,0.800,0.803,(4.4986)+(-0.0627)Asn+(0.00
15)Gly+(-0.0258)Tyr+(-0.0011)Leu+(0.0946)Phe+(-0.1465)Trp;0.806,0.842
,0.784,0.803,0.779,0.742,0.774,0.774,(3.3869)+(0.0046)Pro+(-0.0401)Ty

r+(0.0082)Orn+(-0.0044)Leu+(0.0868)Phe+(-0.1579)Trp;0.806,0.833,0.808,0.802,0.813,0.819,0.804,0.810,(8.3625)+(-0.0890)His+(-0.0009)Ala+(0.0069)Val+(-0.0585)Met+(0.0128)Lys+(-0.1083)Trp;0.806,0.842,0.813,0.835,0.810,0.767,0.791,0.801,(2.5197)+(0.0047)Gln+(-0.0198)Arg+(-0.0319)Tyr+(-0.0018)Leu+(0.0949)Phe+(-0.1637)Trp;0.806,0.836,0.796,0.788,0.777,0.820,0.841,0.806,(5.3672)+(0.0011)Gly+(-0.0092)Ala+(-0.0128)Arg+(0.0062)Pro+(0.0645)Ile+(-0.1522)Trp;0.806,0.834,0.782,0.770,0.774,0.819,0.805,0.792,(2.0593)+(0.0116)Gln+(-0.1712)His+(-0.0219)Arg+(-0.0021)Lys+(-0.0003)Leu+(0.0797)Phe;0.806,0.833,0.798,0.793,0.803,0.831,0.779,0.801,(8.2156)+(0.0036)Gly+(-0.0923)His+(-0.0016)Ala+(0.0007)Arg+(0.0097)Val+(-0.1039)Trp;0.806,0.832,0.749,0.728,0.723,0.826,0.803,0.770,(5.6648)+(0.0018)Gly+(-0.1311)His+(0.0151)Thr+(-0.0059)Ala+(-0.0244)Tyr+(0.0615)Ile;0.806,0.830,0.732,0.701,0.735,0.839,0.730,0.752,(3.8252)+(0.0396)Ser+(-0.1454)His+(0.0079)Thr+(-0.0041)Ala+(-0.0153)Arg+(0.0233)Leu;0.806,0.840,0.779,0.768,0.772,0.800,0.808,0.787,(3.5071)+(0.0390)Ser+(-0.0078)Gly+(-0.0005)Gln+(-0.0222)Val+(0.0448)Leu+(-0.1565)Trp;0.806,0.840,0.780,0.769,0.772,0.802,0.808,0.788,(3.4223)+(0.0378)Ser+(-0.0080)Gly+(0.0013)Thr+(-0.0224)Val+(0.0445)Leu+(-0.1581)Trp;0.806,0.836,0.803,0.795,0.785,0.829,0.845,0.813,(5.6288)+(-0.0454)Asn+(0.0016)Gly+(-0.0074)Ala+(0.0101)Orn+(0.0626)Ile+(-0.1473)Trp;0.806,0.835,0.773,0.746,0.747,0.833,0.855,0.795,(4.8703)+(-0.0208)Asn+(-0.1278)His+(-0.0076)Ala+(0.0032)Pro+(0.0418)Ile+(0.0575)Phe;0.806,0.834,0.799,0.796,0.820,0.811,0.754,0.795,(7.2357)+(-0.0489)Asn+(0.0046)Gly+(-0.0784)Cit+(0.0075)Pro+(0.0136)Leu+(-0.1524)Trp;0.806,0.831,0.757,0.755,0.704,0.832,0.823,0.778,(5.7225)+(-0.1593)Asn+(0.0170)Thr+(-0.0380)Tyr+(-0.0581)Val+(0.0301)Orn+(0.1699)Ile;0.806,0.842,0.771,0.743,0.774,0.806,0.816,0.785,(4.3733)+(-0.1248)His+(-0.0243)Tyr+(-0.1866)Met+(0.0169)Orn+(0.0444)Ile+(0.0948)Phe;0.806,0.837,0.796,0.790,0.78

7,0.867,0.782,0.806,(3.1336)+(0.0381)Ser+(-0.0049)Gly+(0.0085)Gln+(-0.1252)His+(-0.0271)Cit+(-0.1188)Met;0.806,0.839,0.809,0.808,0.796,0.835,0.816,0.814,(7.3715)+(-0.0982)Asn+(0.0246)Thr+(-0.0038)Ala+(-0.0314)Val+(0.0635)Leu+(-0.1381)Trp;0.806,0.839,0.765,0.757,0.761,0.812,0.760,0.772,(3.3803)+(0.0299)Ser+(0.0044)Thr+(-0.0238)Val+(-0.0112)Lys+(0.0537)Leu+(-0.1535)Trp;0.806,0.836,0.827,0.824,0.835,0.840,0.813,0.828,(8.2863)+(-0.0328)Asn+(-0.0058)Ala+(-0.0682)Cit+(0.0134)Pro+(0.0106)Tyr+(-0.1362)Trp;0.805,0.827,0.733,0.707,0.700,0.811,0.815,0.758,(4.9304)+(0.0008)Gly+(-0.1084)His+(0.0082)Thr+(-0.0327)Val+(0.1264)Ile+(-0.0038)Leu;0.805,0.841,0.765,0.744,0.750,0.831,0.802,0.782,(5.2423)+(0.0049)Gly+(-0.1008)His+(-0.1874)Met+(0.0088)Lys+(0.1346)Ile+(-0.0507)Leu;0.805,0.838,0.781,0.772,0.781,0.839,0.762,0.789,(4.2367)+(0.0086)Gln+(-0.1395)His+(0.0193)Thr+(0.0070)Pro+(-0.1935)Met+(0.0164)Orn;0.805,0.845,0.821,0.834,0.82

9,0.776,0.801,0.810,(2.6295)+(-0.0004)Gly+(0.0043)Gln+(-0.0226)Arg+(-0.0024)Leu+(0.0790)Phe+(-0.1738)Trp;0.805,0.839,0.804,0.802,0.815,0.833,0.764,0.803,(5.0097)+(0.0394)Ser+(-0.0056)Gly+(-0.0603)Cit+(-0.0063)Arg+(0.0034)Tyr+(-0.1500)Trp;0.805,0.838,0.789,0.784,0.782,0.861,0.767,0.798,(3.4346)+(0.0348)Ser+(-0.0892)Asn+(0.0091)Gln+(-0.1253)His+(-0.0377)Cit+(0.0009)Tyr;0.805,0.836,0.777,0.765,0.780,0.817,0.772,0.784,(3.8450)+(0.0070)Gly+(-0.1284)His+(-0.0015)Ala+(-0.0046)Tyr+(-0.1841)Met+(0.1312)Phe;0.805,0.836,0.766,0.727,0.771,0.843,0.803,0.786,(3.5474)+(0.0093)Gln+(-0.1433)His+(-0.0708)Cit+(0.0331)Orn+(-0.0133)Lys+(0.0488)Ile;0.805,0.830,0.772,0.760,0.705,0.861,0.881,0.802,(3.2726)+(0.0005)Gln+(0.0039)Thr+(-0.0118)Ala+(-0.0751)Cit+(-0.0493)Val+(0.1776)Ile;0.805,0.837,0.791,0.785,0.794,0.852,0.758,0.797,(4.5026)+(0.0097)Gln+(-0.1289)His+(0.0225)Thr+(-0.0384)Cit+(0.0083)Pro+(-0.1984)Met;0.805,0.837,0.751,0.720,0.762,0.840,0.746,0.767,(3.7212)+(0.0473)Se

r+(-0.1237)His+(-0.0025)Ala+(-0.0319)Cit+(-0.1428)Met+(0.0324)Leu;0.805,0.834,0.783,0.779,0.770,0.856,0.768,0.793,(3.3173)+(0.0339)Ser+(-0.0898)Asn+(0.0083)Gln+(-0.1330)His+(-0.0015)Tyr+(0.0014)Lys;0.805,0.832,0.745,0.722,0.747,0.845,0.729,0.761,(4.2628)+(0.0332)Ser+(-0.1317)His+(0.0011)Thr+(-0.0028)Ala+(0.0294)Orn+(-0.0039)Lys;0.805,0.830,0.780,0.774,0.714,0.864,0.876,0.807,(3.1234)+(0.0018)Gln+(-0.0115)Ala+(-0.0797)Cit+(-0.0349)Val+(0.2033)Ile+(-0.0409)Leu;0.805,0.828,0.733,0.708,0.729,0.821,0.747,0.751,(2.3544)+(0.0315)Ser+(0.0054)Gln+(-0.1619)His+(0.0009)Thr+(-0.0170)Tyr+(0.0206)Leu;0.805,0.845,0.829,0.835,0.839,0.791,0.822,0.822,(4.2247)+(-0.0178)Asn+(0.0033)Tyr+(-0.1893)Met+(0.0023)Leu+(0.1071)Phe+(-0.1430)Trp;0.805,0.839,0.854,0.866,0.852,0.861,0.821,0.850,(6.1032)+(-0.0730)Asn+(0.0085)Gln+(-0.0017)Ala+(-0.0706)Cit+(0.0030)Arg+(-0.1376)Trp;0.805,0.837,0.783,0.783,0.775,0.794,0.794,0.786,(6.1010)+(-0.0742)Asn+(-0.0007)Gly+(0.0169)Thr+(-0.0234)Tyr+(0.0507)Ile+(-0.1542)Trp;0.805,0.839,0.765,0.755,0.739,0.858,0.779,0.783,(0.7722)+(0.0362)Ser+(-0.1559)Asn+(0.0043)Gln+(-0.0849)Cit+(0.1530)Ile+(-0.0779)Leu;0.805,0.832,0.788,0.782,0.799,0.811,0.766,0.790,(7.8273)+(0.0036)Gly+(-0.0984)His+(-0.0065)Arg+(0.0067)Val+(0.0104)Lys+(-0.1099)Trp;0.805,0.832,0.757,0.725,0.742,0.840,0.814,0.780,(5.4849)+(-0.0259)Asn+(0.0043)Gly+(-0.1261)His+(-0.0066)Ala+(0.0220)Orn+(0.0549)Ile;0.805,0.831,0.751,0.731,0.741,0.797,0.791,0.765,(1.8998)+(0.0016)Gly+(0.0076)Gln+(-0.1769)His+(0.0060)Thr+(-0.0001)Leu+(0.0718)Phe;0.805,0.844,0.761,0.749,0.725,0.847,0.804,0.781,(-0.6597)+(0.0485)Ser+(-0.0071)Gly+(0.0013)Gln+(-0.3101)Met+(0.1707)Ile+(-0.0759)Leu;0.805,0.834,0.808,0.800,0.795,0.822,0.846,0.816,(5.9191)+(-0.0056)Asn+(-0.0054)Ala+(-0.1296)Met+(0.0018)Lys+(0.0729)Ile+(-0.1408)Trp;0.805,0.840,0.801,0.822,0.793,0.748,0.799,0.790,(2.7155)+(-0.0019)Gly+(0.0031)Gln+(-0.0398)Tyr+(0.0065)Orn+(0.0832)Phe+(-0.1644)Trp;0.805,0.837,0.7

81,0.771,0.739,0.849,0.848,0.801,(4.8862)+(-0.0045)Arg+(0.0028)Pro+(-0.0496)Val+(-0.2656)Met+(0.1986)Ile+(-0.0169)Leu;0.805,0.836,0.766,0.766,0.779,0.793,0.719,0.764,(-1.7510)+(0.0592)Ser+(-0.0861)Asn+(-0.0025)Gly+(-0.0727)Cit+(-0.2947)Met+(0.1181)Phe;0.805,0.835,0.763,0.752,0.766,0.845,0.722,0.772,(3.1852)+(0.0295)Ser+(0.0071)Gln+(-0.1464)His+(-0.0241)Arg+(-0.0111)Tyr+(0.0260)Orn;0.805,0.833,0.759,0.744,0.718,0.828,0.833,0.781,(4.0886)+(0.0060)Gln+(-0.1133)His+(-0.0191)Tyr+(-0.0285)Val+(-0.0041)Lys+(0.1185)Ile;0.805,0.832,0.735,0.732,0.735,0.773,0.718,0.739,(5.0362)+(-0.1486)His+(0.0294)Thr+(-0.0218)Arg+(-0.0600)Tyr+(-0.0001)Leu+(0.1138)Phe;0.805,0.839,0.804,0.807,0.815,0.783,0.789,0.798,(4.6905)+(-0.0862)Cit+(0.0020)Arg+(-0.0258)Tyr+(0.0046)Leu+(0.0997)Phe+(-0.1666)Trp;0.805,0.838,0.738,0.715,0.745,0.833,0.715,0.752,(4.4142)+(0.0402)Ser+(-0.0700)Asn+(-0.1204)His+(0.0080)Pro+(-0.0201)Tyr+(0.0280)Orn;0.805,0.830,0.750,0.739,0.664,0.853,0.883,0.784,(0.7155)+(0.0340)Ser+(-0.0090)Gly+(-0.0114)Ala+(-0.0417)Val+(0.2004)Ile+(-0.0356)Leu;0.805,0.841,0.773,0.772,0.756,0.819,0.779,0.781,(3.0398)+(0.0291)Ser+(-0.0076)Ala+(0.0100)Pro+(-0.0082)Tyr+(0.0139)Leu+(-0.1522)Trp;0.805,0.838,0.822,0.820,0.829,0.835,0.800,0.821,(7.8490)+(-0.0057)Ala+(-0.0679)Cit+(0.0140)Pro+(0.0045)Val+(-0.0566)Met+(-0.1367)Trp;0.805,0.835,0.814,0.827,0.828,0.824,0.745,0.806,(7.6974)+(-0.0435)Asn+(-0.0017)Gly+(0.0280)Thr+(-0.0002)Val+(-0.1355)Met+(-0.1388)Trp;0.805,0.829,0.741,0.712,0.738,0.834,0.756,0.760,(4.4928)+(0.0472)Ser+(-0.0840)Asn+(-0.1162)His+(-0.0230)Cit+(-0.0235)Val+(0.0564)Leu;0.805,0.845,0.804,0.811,0.809,0.753,0.812,0.796,(2.5708)+(-0.0011)Gly+(0.0022)Gln+(0.0013)Pro+(0.0016)Orn+(0.0637)Phe+(-0.1788)Trp;0.805,0.839,0.758,0.748,0.757,0.803,0.755,0.766,(3.3055)+(0.0282)Ser+(-0.0018)Gln+(-0.0259)Val+(0.0154)Orn+(0.0490)Leu+(-0.1565)Trp;0.805,0.829,0.740,0.715,0.704,0.816,0.824,0.765,(5.1284)+(-0.1078)His+(0.0096)Thr+(-0.0033

)Pro+(-0.0324)Val+(0.1316)Ile+(-0.0052)Leu;0.805,0.847,0.822,0.834,0.829,0.777,0.805,0.811,(2.6490)+(-0.0003)Gly+(0.0044)Gln+(-0.0212)Arg+(-0.0025)Lys+(0.0786)Phe+(-0.1737)Trp;0.805,0.841,0.758,0.733,0.785,0.853,0.697,0.767,(4.5954)+(0.0387)Ser+(-0.1107)His+(-0.0630)Cit+(-0.0044)Arg+(-0.1195)Met+(0.0499)Orn;0.805,0.838,0.709,0.663,0.725,0.810,0.722,0.730,(0.7519)+(0.0434)Ser+(-0.1580)His+(-0.0032)Thr+(-0.0569)Cit+(0.0288)Orn+(0.0859)Phe;0.805,0.836,0.761,0.753,0.769,0.850,0.702,0.769,(5.1287)+(0.0373)Ser+(-0.0403)Asn+(-0.1122)His+(0.0186)Thr+(0.0000)Ala+(-0.1295)Met;0.805,0.835,0.806,0.802,0.827,0.813,0.765,0.802,(5.0939)+(0.0003)Gly+(0.0039)Gln+(0.0093)Thr+(-0.0851)Cit+(0.0142)Leu+(-0.1767)Trp;0.805,0.842,0.743,0.705,0.740,0.815,0.797,0.764,(3.5886)+(-0.1149)His+(-0.0707)Cit+(0.0337)Orn+(0.1095)Ile+(-0.0626)Leu+(0.0708)Phe;0.805,0.839,0.830,0.832,0.819,0.846,0.832,0.832,(5.6172)+(-0.1093)Asn+(0.0055)Gln+(-0.0320)Val+(0.0267)Orn+(0.0547)Leu+(-0.1320)Trp;0.805,0.832,0.766,0.734,0.754,0.847,0.821,0.789,(6.3342)+(-0.1145)His+(0.0189)Thr+(-0.0080)Ala+(-0.0527)Cit+(-0.0084)Lys+(0.0678)Ile;0.805,0.830,0.766,0.749,0.758,0.844,0.774,0.781,(3.0493)+(0.0351)Ser+(-0.0049)Gly+(0.0069)Gln+(-0.1454)His+(0.0015)Thr+(-0.0306)Cit;0.805,0.845,0.804,0.806,0.813,0.762,0.805,0.797,(3.5078)+(-0.0000)Gly+(0.0028)Pro+(-0.0055)Lys+(-0.0004)Leu+(0.0736)Phe+(-0.1689)Trp;0.805,0.843,0.805,0.794,0.817,0.836,0.786,0.808,(8.2381)+(-0.0839)His+(-0.0042)Arg+(0.0152)Tyr+(-0.0496)Met+(0.0370)Orn+(-0.0998)Trp;0.805,0.841,0.818,0.827,0.816,0.799,0.812,0.814,(4.0576)+(0.0007)Gly+(-0.0059)Ala+(-0.0181)Arg+(0.0167)Orn+(0.0823)Phe+(-0.1564)Trp;0.805,0.839,0.812,0.810,0.805,0.810,0.835,0.815,(4.2641)+(-0.0885)Asn+(0.0003)Gly+(0.0054)Gln+(0.0025)Orn+(0.0469)Ile+(-0.1597)Trp;0.805,0.837,0.792,0.787,0.798,0.820,0.770,0.794,(8.0441)+(0.0033)Gly+(-0.0863)His+(-0.0046)Arg+(0.0077)Pro+(0.0113)Tyr+(-0.1029)Trp;0.805,0.830,0.744,0.710,0.743,0.838,0.

769,0.765,(3.8164)+(0.0470)Ser+(-0.0035)Gly+(-0.1400)His+(-0.0039)Ala+(-0.0113)Arg+(0.0231)Leu;0.805,0.830,0.735,0.708,0.736,0.828,0.736,0.752,(2.4421)+(0.0292)Ser+(0.0049)Gln+(-0.1593)His+(0.0037)Pro+(0.0018)Val+(0.0142)Orn;0.805,0.828,0.733,0.699,0.739,0.825,0.743,0.751,(2.0154)+(0.0333)Ser+(0.0060)Gln+(-0.1605)His+(-0.0394)Cit+(0.0025)Pro+(0.0175)Leu;0.805,0.844,0.747,0.726,0.762,0.842,0.699,0.757,(4.0605)+(0.0369)Ser+(-0.1310)His+(0.0135)Thr+(0.0061)Val+(-0.1774)Met+(0.0223)Orn;0.805,0.839,0.756,0.737,0.769,0.845,0.713,0.766,(4.5022)+(0.0466)Ser+(-0.0291)Asn+(-0.1025)His+(-0.0313)Cit+(0.0127)Pro+(-0.1367)Met;0.805,0.837,0.807,0.794,0.818,0.821,0.805,0.810,(8.4091)+(-0.0806)His+(0.0075)Pro+(0.0166)Tyr+(0.0054)Val+(-0.0714)Met+(-0.1079)Trp;0.805,0.834,0.758,0.727,0.749,0.826,0.808,0.778,(3.3053)+(0.0010)Gly+(0.0082)Gln+(-0.1566)His+(0.0116)Orn+(-0.0090)Lys+(0.0461)Ile;0.805,0.829,0.765,0.759,0.710,0.822,0.853,0.786,(3.1192)+(-0.1595)Asn+(0.0042)Gly+(-0.0539)Val+(0.1779)Ile+(-0.0214)Leu+(0.0694)Phe;0.805,0.839,0.744,0.709,0.759,0.833,0.743,0.761,(3.2377)+(0.0494)Ser+(-0.0167)Asn+(-0.1321)His+(0.0137)Tyr+(-0.1723)Met+(0.0292)Leu;0.805,0.837,0.786,0.783,0.782,0.841,0.763,0.792,(4.3107)+(0.0093)Gln+(-0.1372)His+(0.0213)Thr+(0.0079)Pro+(0.0006)Tyr+(-0.1978)Met;0.805,0.835,0.804,0.794,0.794,0.823,0.838,0.813,(5.7122)+(-0.0056)Ala+(-0.1357)Met+(0.0121)Orn+(-0.0003)Lys+(0.0707)Ile+(-0.1398)Trp;0.805,0.835,0.815,0.811,0.831,0.819,0.791,0.813,(5.2133)+(0.0055)Gln+(-0.0871)Cit+(0.0057)Pro+(-0.0061)Lys+(0.0150)Leu+(-0.1684)Trp;0.805,0.835,0.829,0.838,0.835,0.848,0.775,0.824,(5.8680)+(-0.0007)Gly+(0.0046)Gln+(0.0131)Thr+(-0.0039)Ala+(-0.0743)Cit+(-0.1548)Trp;0.805,0.835,0.807,0.810,0.824,0.816,0.760,0.802,(5.3022)+(0.0041)Gln+(0.0074)Thr+(-0.0850)Cit+(0.0061)Pro+(0.0017)Val+(-0.1692)Trp;0.805,0.834,0.718,0.728,0.677,0.791,0.721,0.729,(-1.5025)+(0.0265)Ser+(-0.0967)Cit+(-0.0836)Tyr+(0.1745)Ile+(-0.1016)Leu+(0.1

042)Phe;0.805,0.831,0.780,0.766,0.766,0.856,0.790,0.794,(3.2448)+(0.0352)Ser+(-0.0048)Gly+(0.0071)Gln+(-0.1380)His+(-0.0023)Ala+(-0.0308)Cit;0.805,0.831,0.804,0.791,0.790,0.849,0.835,0.816,(3.9316)+(0.0111)Gln+(-0.1350)His+(-0.0011)Ala+(-0.0194)Val+(-0.1492)Met+(0.0521)Leu;0.805,0.844,0.824,0.830,0.836,0.794,0.803,0.816,(3.9676)+(-0.0065)Arg+(0.0019)Tyr+(-0.1987)Met+(0.0141)Orn+(0.1035)Phe+(-0.1416)Trp;0.805,0.842,0.789,0.804,0.784,0.746,0.787,0.780,(3.6966)+(-0.0005)Gly+(0.0051)Pro+(-0.0374)Tyr+(-0.0033)Lys+(0.0897)Phe+(-0.1587)Trp;0.805,0.839,0.844,0.858,0.845,0.854,0.799,0.839,(5.9067)+(-0.0804)Asn+(0.0020)Gly+(0.0083)Gln+(-0.0746)Cit+(0.0025)Arg+(-0.1408)Trp;0.805,0.836,0.813,0.829,0.827,0.835,0.726,0.804,(7.8102)+(-0.0398)Asn+(0.0297)Thr+(-0.0012)Ala+(-0.0104)Arg+(-0.1238)Met+(-0.1356)Trp;0.805,0.836,0.817,0.826,0.834,0.828,0.753,0.810,(7.4498)+(-0.0420)Asn+(-0.0013)Gly+(0.0272)Thr+(0.0140)Tyr+(-0.1570)Met+(-0.1432)Trp;0.805,0.832,0.834,0.842,0.844,0.843,0.784,0.828,(5.0971)+(0.0013)Gly+(0.0070)Gln+(-0.0725)Cit+(0.0057)Val+(-0.1014)Met+(-0.1484)Trp;0.805,0.839,0.781,0.781,0.774,0.802,0.777,0.784,(3.9701)+(0.0420)Ser+(-0.0090)Gly+(0.0079)Pro+(-0.0180)Tyr+(-0.0052)Lys+(-0.1434)Trp;0.805,0.840,0.810,0.801,0.817,0.817,0.815,0.812,(7.4491)+(-0.0553)Cit+(0.0103)Pro+(-0.0223)Val+(-0.1167)Met+(0.0511)Leu+(-0.1390)Trp;0.805,0.837,0.747,0.725,0.758,0.837,0.721,0.760,(3.9002)+(0.0467)Ser+(-0.0223)Asn+(-0.1175)His+(0.0111)Pro+(0.0045)Val+(-0.1486)Met;0.805,0.835,0.720,0.679,0.723,0.793,0.767,0.741,(3.7608)+(0.0039)Gly+(-0.1559)H

is+(0.0141)Thr+(-0.0120)Lys+(0.0368)Ile+(0.0636)Phe;0.805,0.844,0.805,0.820,0.806,0.761,0.796,0.796,(4.7881)+(-0.0515)Asn+(-0.0088)Arg+(0.0057)Pro+(-0.0303)Tyr+(0.0920)Phe+(-0.1486)Trp;0.805,0.843,0.814,0.825,0.825,0.771,0.791,0.803,(2.7303)+(-0.0005)Gly+(0.0039)Gln+(-0.0243)Arg+(0.0091)Orn+(0.0716)Phe+(-0.1747)Trp;0.805,0.834,0.795,0.773,0.79

7,0.823,0.826,0.805,(8.3441)+(-0.0108)Asn+(-0.0910)His+(0.0159)Tyr+(-0.0186)Val+(0.0518)Leu+(-0.1119)Trp;0.805,0.833,0.765,0.742,0.715,0.861,0.861,0.795,(3.2665)+(-0.0010)Thr+(-0.0122)Ala+(-0.1034)Cit+(-0.0504)Val+(0.0459)Orn+(0.1706)Ile;0.805,0.832,0.745,0.736,0.653,0.844,0.887,0.780,(-1.1248)+(0.0290)Ser+(-0.0139)Thr+(-0.0120)Ala+(-0.0527)Val+(0.1676)Ile+(0.0439)Phe;0.805,0.843,0.828,0.837,0.834,0.791,0.820,0.820,(3.9089)+(-0.0025)Ala+(-0.0068)Arg+(-0.1908)Met+(0.0075)Lys+(0.1105)Phe+(-0.1454)Trp;0.805,0.837,0.816,0.820,0.839,0.832,0.744,0.809,(8.2628)+(-0.0692)Asn+(0.0221)Thr+(-0.0697)Cit+(-0.0007)Arg+(0.0020)Val+(-0.1500)Trp;0.805,0.834,0.755,0.725,0.762,0.842,0.754,0.771,(4.5366)+(0.0448)Ser+(-0.0666)Asn+(-0.0041)Gly+(-0.1231)His+(0.0002)Val+(0.0283)Orn;0.805,0.825,0.736,0.703,0.735,0.827,0.757,0.756,(2.3239)+(0.0329)Ser+(0.0056)Gln+(-0.1544)His+(-0.0340)Cit+(-0.0127)Val+(0.0379)Leu;0.805,0.838,0.800,0.783,0.810,0.810,0.813,0.804,(8.1303)+(0.0052)Asn+(-0.0929)His+(-0.0771)Met+(0.0103)Lys+(0.0224)Leu+(-0.1115)Trp;0.805,0.836,0.808,0.800,0.817,0.824,0.803,0.811,(8.4592)+(0.0022)Asn+(-0.0750)His+(0.0088)Pro+(0.0189)Tyr+(-0.0728)Met+(-0.1027)Trp;0.805,0.836,0.817,0.826,0.833,0.832,0.747,0.809,(7.3363)+(-0.0443)Asn+(0.0264)Thr+(0.0159)Tyr+(-0.0009)Val+(-0.1558)Met+(-0.1418)Trp;0.805,0.839,0.739,0.755,0.745,0.789,0.649,0.734,(0.1798)+(0.0470)Ser+(-0.1685)Asn+(-0.1076)Cit+(-0.0711)Tyr+(0.0426)Orn+(0.0940)Phe;0.805,0.836,0.733,0.723,0.724,0.778,0.742,0.742,(4.1202)+(-0.1450)His+(0.0187)Thr+(-0.0558)Tyr+(-0.0060)Val+(0.0245)Orn+(0.1062)Phe;0.805,0.829,0.761,0.739,0.728,0.835,0.832,0.783,(3.7397)+(0.0067)Gln+(-0.1166)His+(-0.0441)Cit+(-0.0025)Pro+(-0.0288)Val+(0.1187)Ile;0.805,0.843,0.751,0.733,0.735,0.859,0.758,0.771,(1.9109)+(0.0408)Ser+(-0.1141)Asn+(-0.0773)Cit+(-0.0100)Lys+(0.1528)Ile+(-0.0724)Leu;0.805,0.836,0.794,0.790,0.761,0.874,0.815,0.810,(4.0529)+(0.0056)Gly+(-0.0093)Ala+(-0.0846)Cit+(-0.1613)

Met+(0.1880)Ile+(-0.0777)Leu;0.805,0.835,0.750,0.729,0.732,0.812,0.798,0.768,(5.6674)+(-0.1097)His+(-0.0024)Pro+(-0.0323)Tyr+(0.0281)Orn+(0.1142)Ile+(-0.0467)Leu;0.805,0.834,0.769,0.753,0.741,0.819,0.832,0.786,(5.0492)+(-0.1281)His+(-0.0054)Ala+(-0.0058)Arg+(-0.0384)Tyr+(0.0471)Ile+(0.0789)Phe;0.805,0.843,0.776,0.766,0.792,0.756,0.779,0.774,(3.4236)+(0.0129)Thr+(-0.0274)Arg+(-0.0030)Orn+(0.0410)Ile+(0.0576)Phe+(-0.1887)Trp;0.805,0.835,0.730,0.693,0.741,0.829,0.733,0.749,(4.0836)+(0.0435)Ser+(-0.0636)Asn+(-0.1395)His+(0.0088)Thr+(-0.0068)Lys+(0.0240)Leu;0.805,0.834,0.764,0.741,0.714,0.861,0.860,0.794,(3.4279)+(-0.0005)Gln+(-0.0122)Ala+(-0.1028)Cit+(-0.0506)Val+(0.0462)Orn+(0.1710)Ile;0.805,0.833,0.729,0.724,0.729,0.766,0.713,0.733,(4.9401)+(-0.1478)His+(0.0287)Thr+(-0.0226)Arg+(0.0037)Pro+(-0.0632)Tyr+(0.1121)Phe;0.805,0.830,0.749,0.720,0.727,0.833,0.814,0.773,(5.1378)+(0.0029)Gly+(-0.1345)His+(0.0108)Thr+(-0.0075)Ala+(0.0025)Pro+(0.0566)Ile;0.805,0.842,0.820,0.824,0.812,0.801,0.837,0.819,(3.7316)+(0.0006)Gly+(-0.0062)Ala+(-0.0036)Lys+(0.0063)Leu+(0.0823)Phe+(-0.1618)Trp;0.805,0.841,0.782,0.774,0.767,0.832,0.798,0.793,(3.2998)+(0.0286)Ser+(-0.0051)Ala+(0.0012)Tyr+(-0.0217)Val+(0.0512)Leu+(-0.1524)Trp;0.805,0.839,0.799,0.789,0.809,0.817,0.789,0.801,(8.1920)+(-0.0773)His+(-0.0354)Cit+(0.0083)Pro+(0.0037)Tyr+(0.0087)Lys+(-0.1154)Trp;0.805,0.835,0.762,0.728,0.747,0.839,0.828,0.785,(5.9697)+(-0.0369)Asn+(-0.1309)His+(0.0152)Thr+(-0.0068)Ala+(0.0180)Orn+(0.0515)Ile;0.805,0.835,0.802,0.780,0.808,0.828,0.825,0.810,(8.2976)+(0.0027)Asn+(-0.0955)His+(-0.0029)Ala+(0.0162)Tyr+(0.0254)Leu+(-0.1150)Trp;0.805,0.834,0.782,0.771,0.746,0.845,0.841,0.801,(6.4424)+(-0.0879)His+(-0.0063)Ala+(-0.0088)Arg+(-0.0161)Tyr+(0.1355)Ile+(-0.0525)Leu;0.805,0.834,0.753,0.724,0.761,0.840,0.752,0.769,(4.6220)+(0.0436)Ser+(-0.0708)Asn+(-0.0041)Gly+(-0.1242)His+(0.0039)Thr+(0.0268)Orn;0.805,0.833,0.775,0.759,0.756,0.842,0.809,0.791,(3.

2788)+(0.0103)Gln+(-0.1286)His+(-0.0389)Cit+(-0.0193)Arg+(0.1137)Ile+(-0.0461)Leu;0.805,0.832,0.731,0.723,0.725,0.769,0.742,0.739,(4.5721)+(-0.1462)His+(0.0239)Thr+(0.0028)Pro+(-0.0570)Tyr+(-0.0066)Lys+(0.1074)Phe;0.805,0.831,0.730,0.690,0.739,0.826,0.747,0.751,(3.5954)+(0.0405)Ser+(-0.0047)Gly+(-0.1423)His+(0.0047)Pro+(-0.0001)Val+(0.0208)Orn;0.805,0.830,0.782,0.782,0.708,0.863,0.878,0.808,(5.4191)+(-0.1033)Asn+(0.0024)Gly+(-0.0070)Ala+(-0.0114)Tyr+(-0.0530)Val+(0.1790)Ile;0.805,0.828,0.764,0.740,0.745,0.833,0.814,0.783,(3.1531)+(0.0083)Gln+(-0.1304)His+(0.0009)Thr+(-0.0529)Cit+(0.1065)Ile+(-0.0418)Leu;0.805,0.842,0.788,0.774,0.792,0.769,0.832,0.792,(3.5297)+(-0.0020)Pro+(0.0004)Orn+(-0.0110)Lys+(0.0496)Ile+(0.0551)Phe+(-0.1753)Trp;0.805,0.840,0.790,0.781,0.791,0.803,0.804,0.795,(5.8473)+(-0.0729)Asn+(-0.0000)Gly+(0.0152)Thr+(-0.0052)Lys+(0.0502)Ile+(-0.1580)Trp;0.805,0.839,0.810,0.805,0.784,0.828,0.865,0.821,(4.2161)+(-0.0006)Gly+(0.0040)Gln+(-0.0084)Ala+(-0.0080)Lys+(0.0708)Ile+(-0.1568)Trp;0.805,0.837,0.819,0.838,0.819,0.838,0.754,0.812,(5.1548)+(0.0047)Gln+(0.0220)Thr+(-0.0020)Ala+(0.0014)Val+(-0.1789)Met+(-0.1457)Trp;0.805,0.834,0.755,0.734,0.770,0.846,0.715,0.766,(2.9769)+(0.0298)Ser+(0.0067)Gln+(-0.1446)His+(-0.0500)Cit+(-0.0174)Arg+(0.0356)Orn;0.805,0.840,0.750,0.735,0.727,0.850,0.767,0.770,(1.4412)+(0.0419)Ser+(-0.1186)Asn+(-0.0080)Thr+(-0.0737)Cit+(0.1571)Ile+(-0.0790)Leu;0.805,0.838,0.804,0.817,0.822,0.824,0.714,0.794,(7.3161)+(-0.0408)Asn+(0.0264)Thr+(-0.0139)Arg+(-0.1354)Met+(0.0212)Orn+(-0.1368)Trp;0.805,0.828,0.752,0.722,0.742,0.816,0.806,0.771,(3.0865)+(0.0007)Gly+(0.0076)Gln+(-0.1649)His+(0.0050)Thr+(-0.0035)Pro+(0.0472)Ile;0.805,0.840,0.761,0.733,0.785,0.856,0.719,0.773,(4.5418)+(0.0418)Ser+(-0.0027)Gly+(-0.1099)His+(-0.0627)Cit+(-0.1257)Met+(0.0492)Orn;0.805,0.839,0.809,0.804,0.814,0.815,0.807,0.810,(5.1925)+(0.0044)Gln+(-0.0788)Cit+(0.0065)Pro+(-0.0158)Val+(0.0361)Leu+(-0.1674)T

rp;0.805,0.836,0.795,0.772,0.813,0.816,0.805,0.801,(8.3594)+(-0.0816)His+(-0.0402)Cit+(0.0059)Pro+(0.0069)Tyr+(0.0218)Leu+(-0.1236)Trp;0.805,0.832,0.719,0.718,0.661,0.797,0.782,0.740,(-0.3781)+(0.0215)Ser+(-0.0764)Cit+(-0.0711)Tyr+(-0.0480)Val+(0.1428)Ile+(0.0772)Phe;0.805,0.831,0.738,0.707,0.753,0.836,0.717,0.753,(2.7027)+(0.0297)Ser+(0.0050)Gln+(-0.1477)His+(-0.0637)Cit+(0.0035)Pro+(0.0347)Orn;0.805,0.837,0.793,0.789,0.790,0.846,0.773,0.799,(4.5682)+(-0.0383)Asn+(0.0101)Gln+(-0.1331)His+(0.0222)Thr+(0.0074)Pro+(-0.1711)Met;0.805,0.833,0.780,0.770,0.718,0.861,0.878,0.807,(4.4173)+(-0.0104)Ala+(-0.0720)Cit+(-0.0366)Val+(-0.0065)Lys+(0.2022)Ile+(-0.0340)Leu;0.805,0.833,0.725,0.687,0.736,0.822,0.732,0.744,(3.7538)+(0.0437)Ser+(-0.0733)Asn+(-0.1392)His+(0.0053)Thr+(0.0041)Pro+(0.0179)Leu;0.805,0.831,0.763,0.750,0.748,0.856,0.761,0.778,(3.0298)+(0.0323)Ser+(0.0059)Gln+(-0.1335)His+(-0.0060)Ala+(-0.0423)Cit+(0.0112)Pro;0.805,0.837,0.792,0.786,0.805,0.814,0.762,0.792,(6.5858)+(0.0169)Thr+(-0.0711)Cit+(-0.0097)Tyr+(-0.0190)Val+(0.0458)Leu+(-0.1671)Trp;0.805,0.831,0.769,0.757,0.763,0.815,0.781,0.779,(1.7055)+(0.0029)Gly+(0.0109)Gln+(-0.1739)His+(-0.0242)Arg+(0.0006)Pro+(0.0812)Phe;0.805,0.838,0.811,0.828,0.816,0.829,0.742,0.804,(5.0460)+(0.0041)Gln+(0.0196)Thr+(-0.0012)Val+(-0.1897)Met+(0.0142)Orn+(-0.1441)Trp;0.805,0.837,0.781,0.778,0.780,0.798,0.779,0.784,(3.6613)+(0.0417)Ser+(-0.0087)Gly+(0.0001)Thr+(0.0062)Pro+(-0.0071)Lys+(-0.1491)Trp;0.805,0.835,0.821,0.821,0.824,0.834,0.804,0.821,(8.0336)+(-0.0417)Asn+(-0.0058)Ala+(-0.0664)Cit+(0.0137)Pro+(0.0069)Lys+(-0.1382)Trp;0.805,0.829,0.759,0.741,0.746,0.806,0.797,0.772,(1.8325)+(0.0020)Gly+(0.0083)Gln+(-0.1741)His+(-0.0004)Pro+(0.0002)Leu+(0.0731)Phe;0.805,0.836,0.777,0.743,0.789,0.809,0.824,0.791,(4.4142)+(-0.1144)His+(-0.0307)Cit+(0.0014)Pro+(-0.2197)Met+(0.0469)Ile+(0.0950)Phe;0.805,0.834,0.724,0.711,0.719,0.771,0.733,0.733,(3.9659)+(0.0013)Gly+(-0.1524)Hi

s+(0.0180)Thr+(-0.0572)Tyr+(0.0208)Orn+(0.0988)Phe;0.805,0.830,0.734,0.707,0.702,0.814,0.816,0.760,(5.2911)+(0.0008)Gly+(-0.1047)His+(0.0115)Thr+(-0.0338)Val+(-0.0071)Lys+(0.1283)Ile;0.805,0.828,0.750,0.726,0.721,0.829,0.821,0.774,(3.7585)+(0.0058)Gln+(-0.1188)His+(0.0054)Thr+(-0.0454)Cit+(-0.0292)Val+(0.1154)Ile;0.805,0.845,0.817,0.827,0.829,0.781,0.790,0.807,(3.3500)+(0.0024)Gly+(-0.0077)Arg+(-0.2152)Met+(0.0072)Lys+(0.1118)Phe+(-0.1476)Trp;0.805,0.838,0.761,0.753,0.734,0.845,0.776,0.777,(-0.2819)+(0.0418)Ser+(-0.0632)Asn+(0.0022)Gln+(-0.2601)Met+(0.1627)Ile+(-0.0724)Leu;0.805,0.837,0.765,0.749,0.773,0.810,0.758,0.772,(3.6288)+(0.0059)Gly+(-0.1317)His+(-0.0131)Tyr+(-0.1791)Met+(0.0214)Orn+(0.1216)Phe;0.805,0.835,0.768,0.756,0.772,0.847,0.734,0.777,(5.2084)+(0.0431)Ser+(-0.0383)Asn+(-0.0046)Gly+(-0.1107)His+(0.0191)Thr+(-0.1309)Met;0.805,0.834,0.758,0.735,0.763,0.840,0.754,0.773,(4.8620)+(0.0447)Ser+(-0.0624)Asn+(-0.0048)Gly+(-0.1175)His+(-0.0156)Tyr+(0.0326)Orn;0.805,0.833,0.776,0.772,0.709,0.849,0.872,0.800,(4.5514)+(-0.0097)Ala+(-0.0606)Cit+(-0.0074)Arg+(-0.0198)Tyr+(-0.0487)Val+(0.1795)Ile;0.805,0.832,0.758,0.728,0.750,0.837,0.797,0.778,(3.2566)+(0.0071)Gln+(-0.1292)His+(-0.0702)Cit+(0.0292)Orn+(0.1033)Ile+(-0.0447)Leu;0.805,0.829,0.764,0.744,0.729,0.832,0.844,0.787,(6.6379)+(-0.0557)Asn+(-0.0699)His+(-0.0319)Cit+(-0.0004)Pro+(-0.0398)Val+(0.1427)Ile;0.805,0.844,0.763,0.757,0.743,0.794,0.795,0.772,(-0.7996)+(0.0018)Gly+(0.0155)Thr+(-0.3911)Met+(0.1714)Ile+(-0.0939)Leu+(0.1128)Phe;0.805,0.839,0.859,0.866,0.861,0.867,0.831,0.856,(6.0629)+(-0.0739)Asn+(0.0084)Gln+(-0.0022)Ala+(-0.0714)Cit+(0.0130)Tyr+(-0.1421)Trp;0.805,0.832,0.777,0.773,0.718,0.835,0.867,0.798,(2.6098)+(-0.1842)Asn+(0.0035)Gly+(0.0033)Gln+(-0.0604)Val+(0.1620)Ile+(0.0641)Phe;0.805,0.847,0.802,0.806,0.812,0.766,0.798,0.795,(3.4736)+(0.0023)Pro+(0.0079)Orn+(-0.0064)Lys+(-0.0010)Leu+(0.0704)Phe+(-0.1671)Trp;0.805,0.839,0.804,0.803,0.

801,0.819,0.802,0.806,(7.3438)+(-0.1065)Asn+(-0.0004)Gly+(0.0236)Thr+(-0.0324)Val+(0.0605)Leu+(-0.1393)Trp;0.805,0.837,0.811,0.819,0.824,0.823,0.750,0.804,(7.2674)+(-0.0456)Asn+(-0.0019)Gly+(0.0246)Thr+(-0.1402)Met+(0.0187)Orn+(-0.1390)
Trp;0.805,0.836,0.784,0.783,0.789,0.803,0.758,0.783,(4.0780)+(0.0414)Ser+(-0.0083)Gly+(0.0034)Thr+(-0.0222)Arg+(0.0068)Pro+(-0.1546)Trp;0.805,0.833,0.727,0.697,0.749,0.834,0.684,0.741,(4.0980)+(0.0343)Ser+(-0.1249)His+(-0.0658)Cit+(0.0067)Pro+(-0.0272)Tyr+(0.0453)Orn;0.805,0.839,0.774,0.772,0.758,0.821,0.778,0.782,(2.8377)+(0.0281)Ser+(-0.0083)Ala+(0.0091)Pro+(0.0088)Orn+(0.0120)Leu+(-0.1552)Trp;0.805,0.830,0.730,0.702,0.730,0.821,0.740,0.748,(2.4583)+(0.0306)Ser+(0.0048)Gln+(-0.1607)His+(-0.0207)Tyr+(0.0156)Orn+(0.0184)Leu;0.805,0.838,0.737,0.725,0.743,0.785,0.724,0.744,(-3.9841)+(0.0596)Ser+(-0.0647)Asn+(-0.0151)Arg+(-0.3685)Met+(0.0505)Ile+(0.0938)Phe;0.805,0.836,0.757,0.734,0.760,0.795,0.781,0.767,(4.9925)+(-0.0817)Asn+(-0.1306)His+(0.0201)Thr+(-0.0121)Val+(0.0233)Orn+(0.0930)Phe;0.805,0.836,0.798,0.776,0.797,0.831,0.836,0.810,(8.2689)+(-0.0919)His+(-0.0026)Ala+(0.0200)Tyr+(-0.0174)Val+(0.0526)Leu+(-0.1132)Trp;0.805,0.834,0.745,0.716,0.736,0.819,0.787,0.764,(5.1815)+(-0.0385)Asn+(0.0037)Gly+(-0.1129)His+(0.0218)Orn+(0.1042)Ile+(-0.0447)Leu;0.805,0.834,0.766,0.736,0.756,0.830,0.818,0.785,(3.4509)+(0.0085)Gln+(-0.1564)His+(-0.0032)Pro+(0.0132)Orn+(-0.0091)Lys+(0.0495)Ile;0.805,0.832,0.741,0.715,0.707,0.819,0.823,0.766,(5.4868)+(-0.1046)His+(0.0130)Thr+(-0.0032)Pro+(-0.0339)Val+(-0.0071)Lys+(0.1323)Ile;0.805,0.844,0.799,0.820,0.792,0.766,0.784,0.790,(3.6060)+(-0.0341)Tyr+(-0.0075)Val+(0.0165)Orn+(-0.0022)Lys+(0.0949)Phe+(-0.1476)Trp;0.805,0.842,0.776,0.766,0.793,0.756,0.778,0.773,(3.4597)+(-0.0002)Gly+(0.0127)Thr+(-0.0277)Arg+(0.0401)Ile+(0.0561)Phe+(-0.1881)Trp;0.805,0.842,0.796,0.819,0.790,0.751,0.784,0.786,(2.4871)+(0.0028)G

ln+(-0.0384)Tyr+(0.0063)Orn+(-0.0029)Leu+(0.0871)Phe+(-0.1634)Trp;0.805,0.837,0.766,0.755,0.772,0.802,0.760,0.772,(3.3936)+(0.0070)Gly+(-0.1374)His+(-0.0102)Tyr+(-0.2097)Met+(0.0086)Lys+(0.1317)Phe;0.805,0.830,0.750,0.729,0.747,0.828,0.754,0.765,(4.7121)+(0.0485)Ser+(-0.0592)Asn+(-0.0047)Gly+(-0.1144)His+(0.0093)Pro+(-0.0166)Tyr;0.805,0.840,0.821,0.836,0.837,0.838,0.739,0.812,(5.2352)+(0.0055)Gln+(0.0262)Thr+(-0.0183)Arg+(0.0192)Tyr+(-0.2121)Met+(-0.1495)Trp;0.805,0.839,0.802,0.793,0.811,0.816,0.800,0.805,(8.4305)+(-0.0804)His+(0.0018)Arg+(0.0082)Pro+(0.0059)Val+(-0.0527)Met+(-0.1042)Trp;0.805,0.837,0.787,0.783,0.783,0.842,0.765,0.793,(4.3391)+(-0.0004)Gly+(0.0094)Gln+(-0.1370)His+(0.0214)Thr+(0.0079)Pro+(-0.1969)Met;0.805,0.834,0.815,0.825,0.832,0.824,0.749,0.807,(7.0425)+(-0.0479)Asn+(0.0245)Thr+(0.0151)Tyr+(-0.1661)Met+(0.0055)Lys+(-0.1467)Trp;0.805,0.832,0.736,0.698,0.745,0.823,0.756,0.756,(4.0309)+(0.0471)Ser+(-0.0694)Asn+(-0.0034)Gly+(-0.1393)His+(0.0074)Thr+(0.0195)Leu;0.805,0.831,0.775,0.772,0.720,0.824,0.866,0.795,(3.7931)+(-0.1213)Asn+(-0.0160)Arg+(-0.0531)Val+(0.1838)Ile+(-0.0261)Leu+(0.0694)Phe;0.805,0.837,0.791,0.780,0.772,0.816,0.841,0.802,(4.8254)+(-0.0007)Gly+(0.0090)Thr+(-0.0090)Ala+(0.0016)Orn+(0.0652)Ile+(-0.1639)Trp;0.805,0.834,0.764,0.770,0.778,0.796,0.698,0.761,(-1.7152)+(0.0555)Ser+(-0.0897)Asn+(-0.0756)Cit+(-0.2862)Met+(-0.0038)Leu+(0.1237)Phe;0.805,0.840,0.783,0.775,0.787,0.752,0.820,0.783,(2.4366)+(-0.0006)Gly+(0.0018)Gln+(-0.0030)Pro+(0.0426)Ile+(0.0444)Phe+(-0.1883)Trp;0.805,0.834,0.759,0.734,0.764,0.849,0.750,0.774,(4.5889)+(0.0418)Ser+(-0.0044)Gly+(-0.1275)His+(-0.0028)Ala+(-0.0170)Arg+(0.0325)Orn;0.805,0.833,0.763,0.741,0.754,0.811,0.805,0.778,(2.0227)+(0.0083)Gln+(-0.1728)His+(-0.0008)Pro+(0.0116)Orn+(-0.0015)Leu+(0.0687)Phe;0.805,0.845,0.816,0.829,0.827,0.778,0.790,0.806,(2.7136)+(0.0040)Gln+(-0.0227)Arg+(0.0102)Orn+(-0.0034)Lys+(0.0742)Phe+(-0.1720)Trp;0.805,0.836,0

.738,0.711,0.748,0.834,0.722,0.754,(4.2359)+(0.0405)Ser+(-0.0754)Asn+(-0.1233)His+(0.0066)Pro+(-0.0016)Val+(0.0255)Orn;0.805,0.830,0.736,0.709,0.704,0.814,0.820,0.762,(5.4024)+(-0.1045)His+(0.0122)Thr+(-0.0346)Val+(-0.0073)Lys+(0.1276)Ile+(0.0016)Leu;0.805,0.844,0.755,0.741,0.722,0.842,0.796,0.775,(-0.3473)+(0.0502)Ser+(-0.0069)Gly+(0.0023)Pro+(-0.3092)Met+(0.1676)Ile+(-0.0752)Leu;0.805,0.840,0.754,0.744,0.731,0.845,0.762,0.770,(0.1756)+(0.0429)Ser+(-0.0548)Asn+(0.0033)Thr+(-0.2670)Met+(0.1629)Ile+(-0.0716)Leu;0.805,0.838,0.761,0.743,0.769,0.849,0.727,0.772,(4.9292)+(0.0401)Ser+(-0.0545)Asn+(-0.1177)His+(-0.0023)Ala+(-0.0138)Arg+(0.0347)Orn;0.805,0.834,0.772,0.759,0.751,0.835,0.806,0.788,(3.3024)+(0.0101)Gln+(-0.1357)His+(-0.0268)Arg+(0.0018)Lys+(0.1102)Ile+(-0.0465)Leu;0.805,0.833,0.744,0.727,0.723,0.807,0.787,0.761,(5.7066)+(-0.1137)His+(0.0119)Thr+(-0.0341)Tyr+(-0.0010)Lys+(0.1072)Ile+(-0.0391)Leu;0.805,0.831,0.735,0.708,0.714,0.818,0.793,0.758,(5.4094)+(0.0018)Gly+(-0.0978)His+(-0.0208)Arg+(-0.0390)Val+(0.0329)Orn+(0.1332)Ile;0.805,0.830,0.755,0.743,0.756,0.841,0.723,0.766,(2.7522)+(0.0319)Ser+(0.0076)Gln+(-0.1513)His+(0.0027)Thr+(-0.0250)Arg+(0.0061)Pro;0.805,0.846,0.769,0.765,0.749,0.791,0.810,0.778,(-0.5404)+(0.0203)Thr+(-0.3974)Met+(-0.0153)Orn+(0.1755)Ile+(-0.0942)Leu+(0.1182)Phe;0.805,0.834,0.810,0.813,0.812,0.836,0.777,0.809,(7.0736)+(0.0030)Gly+(-0.0066)Ala+(-0.0766)Cit+(0.0145)Pro+(0.0032)Lys+(-0.1429)Trp;0.805,0.829,0.742,0.714,0.741,0.848,0.745,0.762,(3.8318)+(0.0410)Ser+(-0.1267)His+(-0.0073)Ala+(-0.0431)Cit+(0.0115)Pro+(0.0072)Val;0.805,0.828,0.751,0.733,0.733,0.809,0.794,0.767,(3.6797)+(-0.0005)Gly+(0.0073)Gln+(-0.1539)His+(0.0092)Thr+(-0.0328)Tyr+(0.0494)Ile;0.805,0.834,0.798,0.780,0.801,0.824,0.821,0.807,(8.3248)+(0.0023)Asn+(-0.0937)His+(-0.0022)Ala+(0.0033)Arg+(0.0263)Leu+(-0.1104)Trp;0.805,0.831,0.750,0.715,0.733,0.835,0.814,0.775,(5.0571)+(0.0037)Gly+(-0.1310)His+(-0.0075)Ala

+(0.0030)Pro+(0.0195)Orn+(0.0527)Ile;0.805,0.831,0.777,0.767,0.722,0.838,0.874,0.800,(3.0830)+(-0.1798)Asn+(0.0029)Gln+(-0.0618)Val+(0.0221)Orn+(0.1596)Ile+(0.0553)Phe;0.805,0.830,0.765,0.738,0.758,0.836,0.799,0.783,(3.1742)+(0.0027)Gly+(0.0096)Gln+(-0.1455)His+(-0.0535)Cit+(-0.0100)Lys+(0.0567)Ile;0.805,0.839,0.780,0.781,0.772,0.798,0.780,0.783,(3.8352)+(0.0399)Ser+(-0.0090)Gly+(0.0079)Pro+(-0.0215)Tyr+(-0.0010)Val+(-0.1468)Trp;0.805,0.837,0.742,0.746,0.752,0.783,0.678,0.740,(-2.7399)+(0.0510)Ser+(-0.0730)Cit+(0.0145)Pro+(-0.0133)Val+(-0.4040)Met+(0.1377)Phe;0.805,0.833,0.806,0.795,0.812,0.823,0.812,0.810,(8.1713)+(-0.0943)His+(-0.0023)Ala+(0.0116)Tyr+(0.0068)Val+(0.0085)Lys+(-0.1131)Trp;0.805,0.842,0.731,0.712,0.736,0.792,0.725,0.741,(-4.2722)+(0.0561)Ser+(-0.0130)Arg+(-0.3916)Met+(-0.0146)Lys+(0.0634)Ile+(0.0974)Phe;0.805,0.827,0.752,0.730,0.723,0.829,0.820,0.775,(3.6298)+(0.0013)Gly+(0.0062)Gln+(-0.1167)His+(-0.0461)Cit+(-0.0287)Val+(0.1159)Ile;0.805,0.837,0.811,0.800,0.815,0.824,0.820,0.815,(7.0623)+(-0.0077)Ala+(-0.0802)Cit+(0.0048)Arg+(0.0126)Pro+(0.0185)Leu+(-0.1541)Trp;0.805,0.832,0.767,0.754,0.703,0.848,0.875,0.795,(4.1572)+(-0.0126)Ala+(-0.0646)Cit+(-0.0108)Arg+(0.0087)Pro+(-0.0511)Val+(0.1775)Ile;0.805,0.832,0.770,0.763,0.712,0.832,0.860,0.792,(3.2821)+(-0.1638)Asn+(0.0043)Gly+(-0.0028)Pro+(-0.0608)Val+(0.1680)Ile+(0.0688)Phe;0.805,0.831,0.735,0.714,0.723,0.837,0.744,0.755,(3.7861)+(0.0387)Ser+(-0.1324)His+(-0.0058)Ala+(0.0113)Pro+(-0.0131)Tyr+(0.0060)Val;0.805,0.826,0.740,0.721,0.725,0.844,0.745,0.759,(3.9991)+(0.0376)Ser+(-0.1269)His+(0.0003)Thr+(-0.0055)Ala+(0.0116)Pro+(-0.0013)Lys;0.805,0.839,0.748,0.716,0.756,0.839,0.753,0.766,(3.7484)+(0.0471)Ser+(-0.1169)His+(-0.0222)Cit+(-0.0205)Val+(-0.1707)Met+(0.0618)Leu;0.805,0.839,0.790,0.787,0.797,0.853,0.740,0.794,(4.7416)+(0.0099)Gln+(-0.1408)His+(0.0238)Thr+(-0.0220)Arg+(-0.1564)Met+(0.0224)Orn;0.805,0.838,0.773,0.746,0.773,0.801,0.823,0

.786,(4.4076)+(-0.1202)His+(0.0025)Pro+(-0.0224)Tyr+(-0.1996)Met+(0.0460)Ile+(0.1003)Phe;0.805,0.838,0.756,0.734,0.766,0.844,0.732,0.769,(4.2557)+(0.0492)Ser+(-0.0033)Gly+(-0.1063)His+(-0.0265)Cit+(0.0130)Pro+(-0.1584)Met;0.805,0.835,0.773,0.760,0.720,0.836,0.872,0.797,(3.7645)+(-0.1612)Asn+(-0.0040)Pro+(-0.0624)Val+(0.0276)Orn+(0.1664)Ile+(0.0579)Phe;0.805,0.828,0.737,0.705,0.743,0.828,0.747,0.756,(2.0704)+(0.0331)Ser+(0.0062)Gln+(-0.1606)His+(-0.0002)Thr+(-0.0391)Cit+(0.0192)Leu;0.805,0.839,0.825,0.842,0.835,0.832,0.753,0.816,(5.7793)+(-0.0035)Gly+(0.0060)Gln+(0.0288)Thr+(-0.0178)Arg+(-0.1868)Met+(-0.1456)Trp;0.805,0.839,0.803,0.803,0.800,0.819,0.798,0.805,(7.2866)+(-0.1073)Asn+(0.0234)Thr+(-0.0325)Val+(0.0001)Lys+(0.0606)Leu+(-0.1390)Trp;0.805,0.839,0.811,0.809,0.806,0.819,0.822,0.814,(3.8327)+(0.0004)Gly+(0.0061)Gln+(-0.0093)Arg+(-0.1914)Met+(0.0653)Ile+(-0.1483)Trp;0.805,0.836,0.821,0.823,0.824,0.837,0.800,0.821,(7.8044)+(-0.0052)Ala+(-0.0686)Cit+(0.0079)Arg+(0.0148)Pro+(-0.0681)Met+(-0.1308)Trp;0.805,0.836,0.727,0.686,0.742,0.827,0.734,0.747,(3.5965)+(0.0436)Ser+(-0.0738)Asn+(-0.1380)His+(0.0039)Pro+(0.0192)Orn+(0.0149)Leu;0.805,0.833,0.780,0.768,0.772,0.817,0.803,0.790,(2.0010)+(0.0115)Gln+(-0.1719)His+(-0.0233)Arg+(0.0008)Pro+(-0.0018)Leu+(0.0790)Phe;0.805,0.841,0.779,0.781,0.775,0.793,0.777,0.781,(-0.7124)+(0.0027)Gln+(0.0368)Thr+(-0.0543)Val+(-0.4805)Met+(0.0770)Leu+(0.1236)Phe;0.805,0.834,0.727,0.713,0.723,0.770,0.742,0.737,(4.1625)+(-0.1513)His+(0.0190)Thr+(-0.0590)Tyr+(0.0214)Orn+(-0.0004)Leu+(0.0985)Phe;0.805,0.834,0.736,0.707,0.747,0.832,0.721,0.752,(4.1546)+(0.0404)Ser+(-0.0748)Asn+(-0.1264)His+(0.0011)Thr+(0.0060)Pro+(0.0239)Orn;0.805,0.843,0.755,0.742,0.722,0.843,0.797,0.776,(-0.3503)+(0.0496)Ser+(-0.0069)Gly+(-0.3045)Met+(0.0033)Orn+(0.1702)Ile+(-0.0759)Leu;0.805,0.837,0.747,0.718,0.756,0.837,0.743,0.764,(3.5581)+(0.0477)Ser+(-0.1306)His+(-0.0019)Ala+(-0.0051)Arg+(-0.1419)Met+(0.0

313)Leu;0.805,0.837,0.747,0.714,0.730,0.833,0.809,0.772,(5.0372)+(0.0027)Gly+(-0.1385)His+(0.0095)Thr+(-0.0071)Ala+(0.0166)Orn+(0.0545)Ile;0.805,0.836,0.757,0.738,0.759,0.850,0.735,0.771,(4.7892)+(0.0385)Ser+(-0.0646)Asn+(-0.1175)His+(-0.0022)Ala+(-0.0066)Tyr+(0.0326)Orn;0.805,0.846,0.831,0.838,0.837,0.794,0.830,0.825,(3.7319)+(-0.0027)Ala+(0.0071)Tyr+(-0.2075)Met+(0.0059)Lys+(0.1089)Phe+(-0.1461)Trp;0.805,0.843,0.788,0.804,0.784,0.747,0.783,0.780,(3.5953)+(0.0052)Pro+(-0.0373)Tyr+(-0.0030)Lys+(-0.0017)Leu+(0.0912)Phe+(-0.1580)Trp;0.805,0.842,0.818,0.810,0.817,0.824,0.834,0.821,(3.6582)+(0.0064)Gln+(-0.0103)Arg+(0.0186)Tyr+(-0.2209)Met+(0.0647)Ile+(-0.1528)Trp;0.805,0.841,0.814,0.837,0.811,0.764,0.796,0.802,(2.6367)+(-0.0010)Gly+(0.0048)Gln+(-0.0195)Arg+(-0.0327)Tyr+(0.0925)Phe+(-0.1644)Trp;0.805,0.835,0.781,0.764,0.784,0.817,0.793,0.789,(7.8289
)+(0.0036)Gly+(-0.0963)His+(0.0006)Arg+(-0.0157)Val+(0.0508)Leu+(-0.1087)Trp;0.805,0.833,0.808,0.825,0.825,0.816,0.722,0.797,(7.4823)+(-0.0439)Asn+(0.0281)Thr+(-0.0148)Arg+(-0.1462)Met+(0.0084)Lys+(-0.1422)Trp;0.805,0.833,0.754,0.729,0.751,0.841,0.765,0.772,(4.4559)+(0.0395)Ser+(-0.0054)Gly+(-0.1282)His+(-0.0023)Ala+(-0.0149)Tyr+(0.0310)Orn;0.805,0.842,0.790,0.783,0.769,0.824,0.830,0.801,(5.3824)+(0.0139)Thr+(-0.0082)Ala+(-0.0095)Tyr+(-0.0090)Lys+(0.0716)Ile+(-0.1553)Trp;0.805,0.840,0.804,0.800,0.808,0.820,0.794,0.805,(8.5716)+(-0.0004)Asn+(-0.0733)His+(0.0008)Arg+(0.0099)Pro+(-0.0479)Met+(-0.0979)Trp;0.805,0.838,0.797,0.790,0.806,0.814,0.786,0.799,(8.2884)+(-0.0770)His+(-0.0325)Cit+(-0.0035)Arg+(0.0087)Pro+(0.0098)Lys+(-0.1142)Trp;0.805,0.834,0.780,0.764,0.791,0.810,0.777,0.785,(7.5989)+(0.0040)Gly+(-0.1035)His+(-0.0036)Arg+(0.0067)Lys+(0.0227)Leu+(-0.1138)Trp;0.805,0.829,0.766,0.745,0.758,0.826,0.796,0.781,(3.0367)+(0.0017)Gly+(0.0105)Gln+(-0.1601)His+(-0.0209)Arg+(-0.0019)Pro+(0.0484)Ile;0.805,0.833,0.800,0.796,0.802

,0.831,0.788,0.804,(7.7584)+(0.0031)Gly+(-0.0929)His+(-0.0016)Ala+(0.0166)Tyr+(0.0098)Lys+(-0.1071)Trp;0.805,0.837,0.768,0.751,0.739,0.821,0.838,0.787,(4.9399)+(-0.1279)His+(-0.0055)Ala+(-0.0374)Tyr+(-0.0026)Lys+(0.0484)Ile+(0.0778)Phe;0.805,0.831,0.769,0.757,0.721,0.835,0.854,0.792,(4.0930)+(-0.1384)Asn+(-0.0197)Arg+(-0.0641)Val+(0.0319)Orn+(0.1670)Ile+(0.0580)Phe;0.805,0.839,0.853,0.857,0.860,0.863,0.821,0.850,(5.3506)+(0.0073)Gln+(-0.0019)Ala+(-0.0665)Cit+(0.0274)Tyr+(-0.1208)Met+(-0.1440)Trp;0.805,0.836,0.780,0.805,0.759,0.811,0.736,0.778,(-1.2104)+(0.0523)Ser+(-0.1182)Asn+(-0.0193)Tyr+(-0.0148)Val+(-0.2260)Met+(0.1433)Phe;0.805,0.833,0.784,0.770,0.776,0.824,0.807,0.794,(2.1270)+(0.0119)Gln+(-0.1655)His+(-0.0339)Cit+(-0.0157)Arg+(-0.0046)Lys+(0.0852)Phe;0.805,0.830,0.777,0.775,0.768,0.857,0.747,0.786,(3.1698)+(0.0307)Ser+(0.0082)Gln+(-0.1436)His+(-0.0014)Ala+(-0.0216)Arg+(0.0009)Tyr;0.805,0.829,0.731,0.691,0.740,0.824,0.751,0.752,(3.5329)+(0.0419)Ser+(-0.0046)Gly+(-0.1405)His+(-0.0035)Thr+(0.0052)Pro+(0.0222)Orn;0.805,0.835,0.811,0.814,0.813,0.839,0.778,0.811,(7.2278)+(0.0031)Gly+(-0.0065)Ala+(-0.0785)Cit+(0.0032)Arg+(0.0146)Pro+(-0.1402)Trp;0.805,0.834,0.801,0.797,0.806,0.822,0.785,0.803,(8.0182)+(-0.0316)Asn+(0.0037)Gly+(-0.0894)His+(0.0147)Tyr+(0.0115)Lys+(-0.1072)Trp;0.804,0.838,0.802,0.778,0.817,0.820,0.821,0.809,(8.2323)+(-0.0865)His+(0.0063)Pro+(0.0176)Tyr+(-0.0868)Met+(0.0221)Leu+(-0.1132)Trp;0.804,0.828,0.775,0.752,0.759,0.844,0.818,0.793,(4.0826)+(0.0074)Gln+(-0.1472)His+(-0.0041)Ala+(-0.0178)Val+(0.0246)Orn+(0.0401)Leu;0.804,0.833,0.769,0.754,0.733,0.840,0.831,0.789,(3.8770)+(0.0083)Gln+(-0.1186)His+(-0.0248)Arg+(-0.0011)Pro+(-0.0317)Val+(0.1235)Ile;0.804,0.832,0.761,0.742,0.760,0.794,0.788,0.771,(5.3517)+(-0.0762)Asn+(-0.1325)His+(0.0239)Thr+(-0.0098)Val+(-0.0021)Lys+(0.0985)Phe;0.804,0.832,0.753,0.718,0.736,0.833,0.827,0.778,(5.3674)+(-0.1364)His+(0.0110)Thr+(-0.0075)Ala+(0.0017)Pro

+(0.0166)Orn+(0.0512)Ile;0.804,0.829,0.765,0.745,0.728,0.829,0.844,0.787,(6.5742)+(-0.0615)Asn+(-0.0709)His+(-0.0313)Cit+(-0.0403)Val+(0.0027)Lys+(0.1413)Ile;0.804,0.828,0.713,0.673,0.716,0.819,0.740,0.737,(3.1865)+(0.0347)Ser+(-0.1476)His+(0.0009)Thr+(-0.0206)Val+(0.0216)Orn+(0.0459)Leu;0.804,0.840,0.807,0.805,0.803,0.826,0.804,0.810,(8.7048)+(-0.0710)His+(-0.0030)Ala+(0.0008)Arg+(0.0122)Pro+(-0.0369)Met+(-0.0963)Trp;0.804,0.835,0.800,0.796,0.805,0.831,0.775,0.802,(8.3183)+(0.0038)Gly+(-0.0895)His+(-0.0011)Ala+(0.0099)Val+(-0.0251)Met+(-0.1021)Trp;0.804,0.831,0.797,0.795,0.722,0.874,0.900,0.823,(4.3665)+(-0.1282)Asn+(0.0042)Gln+(-0.0073)Ala+(-0.0539)Val+(0.0000)Lys+(0.1754)Ile;0.804,0.828,0.807,0.797,0.784,0.855,0.851,0.822,(4.6309)+(-0.0752)Asn+(0.0113)Gln+(-0.1334)His+(-0.0024)Ala+(-0.0204)Val+(0.0468)Leu;0.804,0.841,0.810,0.803,0.817,0.832,0.799,0.813,(8.6997)+(-0.0624)His+(-0.0386)Cit+(0.0063)Arg+(0.0104)Pro+(-0.0453)Met+(-0.1048)Trp;0.804,0.841,0.781,0.774,0.766,0.832,0.796,0.792,(3.3559)+(0.0289)Ser+(-0.0002)Gln+(-0.0050)Ala+(-0.0217)Val+(0.0513)Leu+(-0.1517)Trp;0.804,0.837,0.813,0.803,0.819,0.826,0.819,0.817,(7.1557)+(-0.0077)Ala+(-0.0776)Cit+(0.0125)Pro+(0.0053)Tyr+(0.0181)Leu+(-0.1545)Trp;0.804,0.837,0.808,0.811,0.826,0.826,0.749,0.803,(7.7804)+(-0.0314)Asn+(0.0041)Gly+(-0.0670)Cit+(0.0110)Pro+(-0.0640)Met+(-0.1329)Trp;0.804,0.836,0.789,0.789,0.792,0.846,0.742,0.792,(4.5916)+(0.0107)Gln+(-0.1374)His+(0.0262)Thr+(-0.0211)Arg+(0.0079)Pro+(-0.1874)Met;0.804,0.835,0.821,0.817,0.828,0.830,0.809,0.821,(5.3592)+(0.0056)Gln+(-0.0767)Cit+(-0.0144)Val+(-0.0059)Lys+(0.0407)Leu+(-0.1622)Trp;0.804,0.827,0.741,0.717,0.746,0.828,0.729,0.755,(2.3367)+(0.0319)Ser+(0.0063)Gln+(-0.1546)His+(-0.0403)Cit+(0.0041)Pro+(0.0048)Val;0.804,0.835,0.798,0.789,0.781,0.819,0.839,0.807,(5.4612)+(-0.0092)Ala+(-0.0146)Arg+(0.0057)Pro+(0.0107)Orn+(0.0606)Ile+(-0.1521)Trp;0.804,0.834,0.806,0.799,0.815,0.815,0.801,0.807,(8.33

95)+(-0.0017)Asn+(-0.0888)His+(0.0064)Val+(-0.0627)Met+(0.0129)Lys+(-0.1088)Trp;0.804,0.836,0.759,0.751,0.766,0.847,0.704,0.767,(4.8406)+(0.0374)Ser+(-0.0447)Asn+(-0.1148)His+(0.0179)Thr+(-0.1476)Met+(0.0063)Lys;0.804,0.837,0.752,0.731,0.759,0.845,0.723,0.765,(4.1217)+(0.0462)Ser+(-0.0274)Asn+(-0.1117)His+(0.0118)Pro+(0.0078)Tyr+(-0.1495)Met;0.804,0.831,0.764,0.733,0.744,0.836,0.834,0.787,(6.0957)+(-0.0349)Asn+(-0.1271)His+(0.0168)Thr+(-0.0072)Ala+(0.0023)Pro+(0.0538)Ile;0.804,0.837,0.842,0.844,0.849,0.842,0.819,0.838,(5.5871)+(-0.0775)Asn+(0.0083)Gln+(-0.0781)Cit+(0.0029)Tyr+(0.0144)Leu+(-0.1570)Trp;0.804,0.836,0.771,0.768,0.774,0.816,0.736,0.774,(3.7839)+(0.0287)Ser+(0.0075)Thr+(-0.0222)Arg+(-0.0240)Val+(0.0494)Leu+(-0.1575)Trp;0.804,0.835,0.741,0.714,0.757,0.837,0.710,0.754,(4.3700)+(0.0426)Ser+(-0.0616)Asn+(-0.1238)His+(-0.0155)Arg+(0.0066)Pro+(0.0273)Orn;0.804,0.833,0.745,0.721,0.755,0.840,0.719,0.759,(4.6007)+(0.0380)Ser+(-0.0710)Asn+(-0.1242)His+(0.0042)Thr+(0.0277)Orn+(-0.0016)Lys;0.804,0.843,0.728,0.702,0.746,0.784,0.721,0.738,(-4.2288)+(0.0579)Ser+(-0.0018)Gly+(-0.0838)Cit+(-0.4293)Met+(0.0575)Ile+(0.0997)Phe;0.804,0.841,0.792,0.781,0.773,0.824,0.839,0.804,(5.2239)+(0.0122)Thr+(-0.0088)Ala+(0.0050)Orn+(-0.0098)Lys+(0.0698)Ile+(-0.1572)Trp;0.804,0.840,0.773,0.770,0.758,0.818,0.782,0.782,(2.9821)+(0.0296)Ser+(-0.0004)Gln+(-0.0080)Ala+(0.0097)Pro+(0.0137)Leu+(-0.1544)Trp;0.804,0.838,0.759,0.724,0.742,0.840,0.830,0.784,(4.4964)+(-0.1328)His+(0.0156)Thr+(-0.0088)Ala+(-0.0536)Cit+(0.0494)Ile+(0.0593)Phe;0.804,0.838,0.746,0.714,0.754,0.837,0.748,0.763,(3.4451)+(0.0473)Ser+(-0.1314)His+(-0.0020)Ala+(-0.1472)Met+(-0.0010)Lys+(0.0323)Leu;0.804,0.836,0.826,0.842,0.824,0.835,0.782,0.821,(5.8117)+(-0.1130)Asn+(0.0052)Gln+(0.0138)Thr+(-0.0055)Val+(0.0175)Orn+(-0.1368)Trp;0.804,0.828,0.717,0.676,0.717,0.824,0.746,0.741,(3.4420)+(0.0411)Ser+(-0.1390)His+(0.0046)Pro+(-0.0181)Val+(-0.0091)Lys+(0.0484)Leu;0.

804,0.830,0.742,0.715,0.736,0.834,0.759,0.761,(4.4403)+(0.0472)Ser+(-0.0799)Asn+(-0.1195)His+(-0.0057)Arg+(-0.0245)Val+(0.0573)Leu;0.804,0.839,0.780,0.782,0.773,0.796,0.780,0.783,(3.6533)+(0.0394)Ser+(-0.0091)Gly+(0.0005)Gln+(0.0075)Pro+(-0.0227)Tyr+(-0.1486)Trp;0.804,0.842,0.722,0.696,0.725,0.788,0.737,0.737,(-4.5298)+(0.0548)Ser+(0.0045)Pro+(-0.4159)Met+(-0.0173)Lys+(0.0589)Ile+(0.0975)Phe;0.804,0.834,0.775,0.764,0.781,0.815,0.763,0.781,(3.7859)+(0.0071)Gly+(-0.1263)His+(-0.0012)Arg+(-0.0037)Val+(-0.1943)Met+(0.1353)Phe;0.804,0.840,0.763,0.740,0.768,0.850,0.748,0.777,(4.2334)+(0.0438)Ser+(-0.0045)Gly+(-0.1194)His+(-0.1259)Met+(0.0315)Orn+(0.0011)Lys;0.804,0.834,0.746,0.713,0.760,0.856,0.725,0.763,(4.1301)+(0.0355)Ser+(-0.1264)His+(-0.0056)Ala+(-0.0744)Cit+(0.0054)Val+(0.0467)Orn;0.804,0.832,0.739,0.735,0.647,0.842,0.865,0.772,(-1.2688)+(0.0222)Ser+(-0.0125)Ala+(-0.0412)Val+(0.1952)Ile+(-0.0420)Leu+(0.0469)Phe;0.804,0.832,0.755,0.733,0.730,0.827,0.812,0.775,(6.1430)+(-0.1269)His+(0.0184)Thr+(-0.0058)Ala+(-0.0248)Tyr+(-0.0048)Lys+(0.0629)Ile;0.804,0.831,0.742,0.707,0.751,0.826,0.754,0.760,(4.1050)+(0.0503)Ser+(-0.0523)Asn+(-0.0032)Gly+(-0.1338)His+(-0.0093)Arg+(0.0199)Leu;0.804,0.841,0.793,0.783,0.780,0.825,0.821,0.802,(5.6197)+(0.0175)Thr+(-0.0084)Ala+(-0.0170)Arg+(-0.0059)Lys+(0.0708)Ile+(-0.1590)Trp;0.804,0.832,0.749,0.730,0.758,0.843,0.715,0.762,(4.4817)+(0.0359)Ser+(-0.1289)His+(-0.0028)Ala+(-0.0176)Arg+(0.0327)Orn+(0.0000)Lys;0.804,0.831,0.783,0.773,0.773,0.824,0.801,0.793,(2.1332)+(0.0116)Gln+(-0.1644)His+(-0.0281)Cit+(-0.0194)Arg+(-0.0041)Val+(0.0890)Phe;0.804,0.831,0.743,0.721,0.738,0.841,0.739,0.760,(3.9827)+(0.0420)Ser+(-0.1305)His+(-0.0059)Ala+(-0.0155)Arg+(0.0112)Pro+(0.0054)Val;0.804,0.830,0.771,0.759,0.704,0.863,0.877,0.801,(3.1234)+(0.0021)Gly+(0.0005)Gln+(-0.0117)Ala+(-0.0769)Cit+(-0.0485)Val+(0.1777)Ile;0.804,0.829,0.714,0.671,0.727,0.820,0.726,0.736,(3.3401)+(0.0409)Ser+(-0.1492)H

is+(0.0034)Thr+(0.0032)Pro+(-0.0103)Lys+(0.0229)Leu;0.804,0.836,0.825,0.839,0.820,0.827,0.797,0.821,(5.0540)+(-0.0563)Asn+(0.0065)Gln+(0.0072)Pro+(-0.1325)Met+(0.0171)Orn+(-0.1329)Trp;0.804,0.834,0.789,0.768,0.793,0.814,0.821,0.799,(7.9987)+(-0.0962)His+(0.0117)Tyr+(-0.0171)Val+(0.0042)Lys+(0.0482)Leu+(-0.1148)Trp;0.804,0.839,0.779,0.769,0.784,0.753,0.811,0.779,(2.3647)+(0.0015)Gln+(0.0020)Thr+(-0.0033)Pro+(0.0426)Ile+(0.0447)Phe+(-0.1896)Trp;0.804,0.837,0.803,0.803,0.794,0.829,0.805,0.808,(3.6511)+(0.0356)Ser+(-0.0076)Gly+(0.0005)Gln+(-0.0043)Ala+(0.0174)Orn+(-0.1467)Trp;0.804,0.837,0.791,0.770,0.802,0.811,0.811,0.799,(8.0908)+(-0.0953)His+(-0.0006)Arg+(0.0052)Pro+(0.0044)Tyr+(0.0208)Leu+(-0.1149)Trp;0.804,0.840,0.793,0.782,0.806,0.821,0.772,0.795,(8.0126)+(-0.0942)His+(-0.0111)Arg+(0.0019)Tyr+(0.0349)Orn+(0.0093)Lys+(-0.1062)Trp;0.804,0.841,0.791,0.795,0.785,0.765,0.814,0.790,(4.4933)+(-0.0451)Asn+(-0.0096)Arg+(-0.0298)Tyr+(0.0428)Ile+(0.0727)Phe+(-0.1604)Trp;0.804,0.837,0.751,0.721,0.777,0.847,0.704,0.762,(4.8172)+(0.0407)Ser+(-0.0687)Asn+(-0.1124)His+(-0.0627)Cit+(-0.0053)Arg+(0.0474)Orn;0.804,0.844,0.821,0.826,0.816,0.803,0.831,0.819,(3.8051)+(0.0000)Gly+(-0.0061)Ala+(0.0126)Orn+(-0.0040)Lys+(0.0790)Phe+(-0.1562)Trp;0.804,0.839,0.769,0.755,0.784,0.817,0.741,0.774,(3.8449)+(0.0085)Gly+(-0.1240)His+(-0.0409)Cit+(-0.0050)Tyr+(-0.1859)Met+(0.1356)Phe;0.804,0.835,0.749,0.721,0.753,0.833,0.752,0.765,(4.5143)+(0.0411)Ser+(-0.0058)Gly+(-0.1283)His+(-0.0167)

Tyr+(0.0321)Orn+(-0.0044)Lys;0.804,0.833,0.769,0.768,0.695,0.834,0.881,0.795,(2.0786)+(0.0009)Gly+(-0.0105)Ala+(-0.0278)Arg+(-0.0587)Val+(0.1806)Ile+(0.0549)Phe;0.804,0.830,0.768,0.744,0.763,0.826,0.798,0.783,(3.1931)+(0.0104)Gln+(-0.1612)His+(-0.0214)Arg+(-0.0024)Pro+(0.0128)Orn+(0.0443)Ile;0.804,0.826,0.739,0.710,0.712,0.823,0.813,0.764,(5.3772)+(-0.1016)His+(0.0115)Thr+(-0.0379)Cit+(-0.0028)Pro+(-0.0338)Val+

(0.1295)Ile;0.804,0.835,0.807,0.811,0.823,0.816,0.759,0.802,(5.3814)+(0.0000)Gly+(0.0041)Gln+(0.0076)Thr+(-0.0835)Cit+(0.0065)Pro+(-0.1665)Trp;0.804,0.833,0.745,0.730,0.722,0.807,0.789,0.762,(5.7128)+(-0.1145)His+(0.0117)Thr+(-0.0019)Pro+(-0.0330)Tyr+(0.1104)Ile+(-0.0401)Leu;0.804,0.829,0.751,0.732,0.732,0.809,0.794,0.767,(3.6544)+(0.0072)Gln+(-0.1545)His+(0.0090)Thr+(-0.0012)Pro+(-0.0312)Tyr+(0.0510)Ile;0.804,0.829,0.759,0.744,0.724,0.830,0.823,0.780,(4.0288)+(0.0067)Gln+(-0.1088)His+(-0.0450)Cit+(-0.0225)Tyr+(-0.0279)Val+(0.1195)Ile;0.804,0.837,0.793,0.785,0.812,0.811,0.760,0.792,(6.6610)+(0.0180)Thr+(-0.0669)Cit+(-0.0082)Arg+(-0.0199)Val+(0.0463)Leu+(-0.1685)Trp;0.804,0.836,0.734,0.698,0.751,0.832,0.719,0.750,(3.9624)+(0.0443)Ser+(-0.0603)Asn+(-0.1357)His+(-0.0129)Arg+(0.0244)Orn+(0.0163)Leu;0.804,0.831,0.773,0.753,0.760,0.832,0.812,0.789,(3.5757)+(0.0102)Gln+(-0.1386)His+(-0.0495)Cit+(-0.0227)Tyr+(-0.0074)Lys+(0.0585)Ile;0.804,0.830,0.761,0.734,0.758,0.830,0.789,0.778,(3.1890)+(0.0102)Gln+(-0.1592)His+(0.0099)Thr+(-0.0334)Cit+(-0.0199)Arg+(0.0465)Ile;0.804,0.827,0.734,0.707,0.725,0.824,0.757,0.753,(2.5249)+(0.0320)Ser+(0.0049)Gln+(-0.1553)His+(-0.0120)Tyr+(-0.0140)Val+(0.0407)Leu;0.804,0.845,0.806,0.809,0.817,0.768,0.801,0.799,(3.5836)+(-0.0003)Gly+(0.0094)Orn+(-0.0063)Lys+(-0.0003)Leu+(0.0705)Phe+(-0.1661)Trp;0.804,0.839,0.774,0.763,0.780,0.746,0.811,0.775,(2.8634)+(0.0049)Thr+(-0.0028)Pro+(-0.0078)Orn+(0.0447)Ile+(0.0492)Phe+(-0.1896)Trp;0.804,0.836,0.804,0.807,0.811,0.832,0.760,0.803,(8.4651)+(-0.0298)Asn+(0.0045)Gly+(-0.0750)His+(-0.0353)Cit+(0.0125)Lys+(-0.1057)Trp;0.804,0.834,0.817,0.815,0.834,0.826,0.783,0.815,(5.0979)+(0.0015)Gly+(0.0056)Gln+(-0.0855)Cit+(-0.0062)Lys+(0.0186)Leu+(-0.1666)Trp;0.804,0.838,0.768,0.760,0.763,0.813,0.766,0.775,(3.3289)+(0.0321)Ser+(-0.0003)Gln+(-0.0228)Val+(-0.0095)Lys+(0.0523)Leu+(-0.1511)Trp;0.804,0.837,0.762,0.754,0.759,0.802,0.762,0.769,(3.2639)+(0.0291)S

er+(-0.0011)Gln+(0.0001)Thr+(-0.0232)Val+(0.0476)Leu+(-0.1573)Trp;0.804,0.832,0.755,0.731,0.747,0.805,0.799,0.771,(2.0539)+(0.0077)Gln+(-0.1766)His+(0.0061)Thr+(-0.0016)Pro+(0.0091)Orn+(0.0682)Phe;0.804,0.842,0.819,0.825,0.831,0.781,0.807,0.811,(3.5853)+(0.0014)Tyr+(-0.2190)Met+(0.0097)Orn+(0.0041)Lys+(0.1035)Phe+(-0.1455)Trp;0.804,0.832,0.715,0.676,0.693,0.848,0.769,0.746,(1.5327)+(0.0267)Ser+(-0.1003)Cit+(-0.0472)Val+(0.0466)Orn+(-0.0280)Lys+(0.1556)Ile;0.804,0.838,0.778,0.780,0.749,0.811,0.807,0.787,(1.4076)+(-0.0733)Cit+(-0.0348)Tyr+(-0.2433)Met+(0.1827)Ile+(-0.0988)Leu+(0.1248)Phe;0.804,0.833,0.793,0.777,0.789,0.820,0.825,0.803,(8.1727)+(-0.0918)His+(-0.0019)Ala+(-0.0153)Val+(0.0060)Lys+(0.0476)Leu+(-0.1108)Trp;0.804,0.832,0.747,0.718,0.749,0.838,0.755,0.765,(4.1529)+(0.0462)Ser+(-0.0501)Asn+(-0.1320)His+(-0.0034)Ala+(-0.0081)Arg+(0.0244)Leu;0.804,0.830,0.767,0.750,0.736,0.840,0.825,0.788,(3.8313)+(0.0086)Gln+(-0.1155)His+(-0.0302)Cit+(-0.0203)Arg+(-0.0309)Val+(0.1226)Ile;0.804,0.830,0.731,0.727,0.721,0.769,0.740,0.739,(4.1683)+(0.0015)Gly+(-0.1469)His+(0.0207)Thr+(-0.0522)Tyr+(-0.0041)Val+(0.1112)Phe;0.804,0.830,0.791,0.775,0.774,0.845,0.828,0.805,(4.5892)+(-0.0894)Asn+(0.0100)Gln+(-0.1318)His+(-0.0267)Val+(0.0273)Orn+(0.0494)Leu;0.804,0.827,0.729,0.717,0.648,0.843,0.846,0.764,(1.5579)+(0.0282)Ser+(-0.0044)Gln+(-0.0108)Ala+(-0.0429)Val+(0.1987)Ile+(-0.0301)Leu;0.804,0.826,0.769,0.772,0.708,0.842,0.840,0.790,(4.7879)+(-0.1486)Asn+(0.0032)Gln+(-0.0302)Tyr+(-0.0559)Val+(0.0316)Orn+(0.1623)Ile;0.804,0.842,0.812,0.834,0.810,0.769,0.791,0.801,(2.5279)+(0.0047)Gln+(-0.0192)Arg+(-0.0316)Tyr+(-0.0011)Lys+(0.0940)Phe+(-0.1643)Trp;0.804,0.834,0.797,0.792,0.806,0.826,0.770,0.799,(8.2089)+(0.0038)Asn+(0.0038)Gly+(-0.0905)His+(0.0095)Val+(-0.0342)Met+(-0.1026)Trp;0.804,0.839,0.811,0.809,0.806,0.819,0.819,0.813,(3.8722)+(0.0060)Gln+(-0.0103)Arg+(-0.1907)Met+(0.0055)Orn+(0.0632)Ile+(-0.1482)Trp;0.804,0.836,0.

788,0.782,0.767,0.813,0.832,0.798,(5.1197)+(-0.0012)Gly+(0.0113)Thr+(-0.0083)Ala+(-0.0134)Tyr+(0.0663)Ile+(-0.1605)Trp;0.804,0.828,0.781,0.780,0.711,0.862,0.874,0.807,(5.0941)+(-0.1035)Asn+(0.0027)Gly+(-0.0075)Ala+(-0.0477)Val+(0.1915)Ile+(-0.0189)Leu;0.804,0.835,0.738,0.708,0.749,0.833,0.722,0.753,(4.2009)+(0.0410)Ser+(-0.0708)Asn+(-0.1249)His+(0.0062)Pro+(0.0252)Orn+(-0.0020)Lys;0.804,0.833,0.742,0.715,0.720,0.818,0.805,0.765,(5.6327)+(-0.0936)His+(-0.0208)Arg+(-0.0370)Val+(0.0336)Orn+(0.1414)Ile+(-0.0099)Leu;0.804,0.832,0.737,0.730,0.734,0.778,0.732,0.744,(4.6789)+(-0.1400)His+(0.0244)Thr+(-0.0384)Cit+(-0.0558)Tyr+(-0.0037)Val+(0.1152)Phe;0.804,0.830,0.725,0.717,0.717,0.766,0.734,0.733,(4.1101)+(0.0018)Gly+(-0.1525)His+(0.0204)Thr+(-0.0546)Tyr+(0.0020)Leu+(0.1031)Phe;0.804,0.825,0.738,0.708,0.711,0.821,0.811,0.763,(5.3026)+(-0.0986)His+(0.0100)Thr+(-0.0394)Cit+(-0.0319)Val+(0.1326)Ile+(-0.0077)Leu;0.804,0.838,0.845,0.849,0.857,0.852,0.809,0.842,(5.0483)+(0.0070)Gln+(-0.0659)Cit+(0.0254)Tyr+(-0.1478)Met+(0.0048)Lys+(-0.1492)Trp;0.804,0.838,0.759,0.743,0.766,0.851,0.721,0.770,(4.3783)+(0.0404)Ser+(-0.0432)Asn+(-0.1161)His+(-0.1047)Met+(0.0306)Orn+(0.0036)Lys;0.804,0.837,0.834,0.834,0.845,0.837,0.809,0.831,(4.9388)+(0.0070)Gln+(-0.0732)Cit+(0.0031)Arg+(-0.1203)Met+(0.0191)Leu+(-0.1543)Trp;0.804,0.835,0.808,0.811,0.795,0.810,0.825,0.810,(4.4863)+(-0.0812)Asn+(0.0054)Gln+(-0.0171)Tyr+(0.0053)Orn+(0.0484)Ile+(-0.1535)Trp;0.804,0.835,0.834,0.836,0.844,0.837,0.807,0.831,(4.9675)+(0.0072)Gln+(-0.0714)Cit+(-0.1167)Met+(0.0000)Lys+(0.0189)Leu+(-0.1539)Trp;0.804,0.834,0.746,0.722,0.756,0.841,0.718,0.759,(4.2382)+(0.0374)Ser+(-0.1345)His+(-0.0034)Ala+(-0.0172)Arg+(0.0042)Val+(0.0293)Orn;0.804,0.833,0.731,0.692,0.761,0.841,0.693,0.747,(4.1794)+(0.0365)Ser+(-0.1255)His+(-0.0676)Cit+(0.0048)Pro+(0.0462)Orn+(-0.0092)Lys;0.804,0.833,0.757,0.757,0.706,0.856,0.795,0.778,(0.6762)+(0.0352)Ser+(-0.0106)Ala+(-0.0326)Arg

+(-0.0070)Lys+(0.1895)Ile+(-0.0892)Leu;0.804,0.833,0.786,0.778,0.814,0.798,0.741,0.783,(6.1819)+(0.0014)Gly+(0.0108)Thr+(-0.0844)Cit+(0.0052)Pro+(0.0130)Leu+(-0.1732)Trp;0.804,0.833,0.809,0.820,0.817,0.827,0.751,0.804,(6.7401)+(-0.0024)Gly+(0.0234)Thr+(-0.0022)Ala+(-0.1601)Met+(0.0195)Orn+(-0.1401)Trp;0.804,0.832,0.780,0.763,0.747,0.844,0.849,0.801,(6.1694)+(-0.0916)His+(-0.0077)Ala+(-0.0103)Arg+(0.0034)Pro+(0.1289)Ile+(-0.0518)Leu;0.804,0.842,0.813,0.830,0.814,0.773,0.793,0.803,(4.5781)+(-0.0555)Asn+(0.0018)Gly+(-0.0079)Arg+(-0.0238)Tyr+(0.0958)Phe+(-0.1477)Trp;0.804,0.842,0.826,0.839,0.816,0.798,0.835,0.822,(4.8120)+(-0.0527)Asn+(-0.0043)Ala+(-0.0190)Tyr+(0.0029)Leu+(0.0941)Phe+(-0.1452)Trp;0.804,0.833,0.769,0.753,0.762,0.825,0.784,0.781,(2.0136)+(0.0036)Gly+(0.0096)Gln+(-0.1624)His+(-0.0498)Cit+(-0.0086)Lys+(0.0899)Phe;0.804,0.830,0.756,0.728,0.746,0.829,0.802,0.776,(6.0300)+(-0.0407)Asn+(-0.1019)His+(0.0130)Thr+(-0.0436)Cit+(0.1087)Ile+(-0.0448)Leu;0.804,0.829,0.750,0.721,0.735,0.844,0.791,0.773,(5.2619)+(0.0049)Gly+(-0.1205)His+(0.0126)Thr+(-0.0082)Ala+(-0.0584)Cit+(0.0670)Ile;0.804,0.827,0.758,0.736,0.727,0.833,0.825,0.780,(3.6504)+(0.0066)Gln+(-0.1132)His+(-0.0471)Cit+(-0.0248)Val+(0.1271)Ile+(-0.0148)Leu;0.804,0.844,0.817,0.828,0.829,0.776,0.797,0.807,(4.4601)+(-0.0659)Asn+(0.0023)Gly+(-0.0120)Arg+(0.0036)Lys+(0.0819)Phe+(-0.1577)Trp;0.804,0.831,0.744,0.714,0.742,0.836,0.762,0.763,(4.0559)+(0.0451)Ser+(-0.0564)Asn+(-0.1327)His+(-0.0035)Ala+(-0.0038)Tyr+(0.0250)Leu;0.804,0.831,0.776,0.769,0.718,0.826,0.878,0.798,(3.5553)+(-0.1423)Asn+(-0.0033)Pro+(-0.0529)Val+(0.1824)Ile+(-0.0240)Leu+(0.0681)Phe;0.804,0.831,0.747,0.718,0.762,0.844,0.723,0.762,(2.8247)+(0.0298)Ser+(0.0055)Gln+(-0.1435)His+(-0.0039)Thr+(-0.0648)Cit+(0.0390)Orn;0.804,0.839,0.838,0.839,0.843,0.841,0.823,0.836,(5.0627)+(0.0071)Gln+(-0.0031)Ala+(-0.0719)Cit+(-0.0956)Met+(0.0217)Leu+(-0.1517)Trp;0.804,0.837,0.792,0.784,0.771,0.813,0

.844,0.803,(5.0735)+(-0.0091)Ala+(0.0054)Pro+(-0.0098)Tyr+(0.0058)Orn+(0.0616)Ile+(-0.1532)Trp;0.804,0.835,0.799,0.796,0.774,0.819,0.848,0.809,(4.0043)+(0.0031)Gln+(-0.0084)Ala+(-0.0088)Tyr+(0.0033)Orn+(0.0656)Ile+(-0.1602)Trp;0.804,0.839,0.787,0.795,0.808,0.799,0.713,0.779,(6.4300)+(0.0285)Thr+(-0.0138)Arg+(0.0069)Pro+(-0.2083)Met+(0.0134)Leu+(-0.1486)Trp;0.804,0.834,0.758,0.761,0.761,0.779,0.729,0.757,(-2.4643)+(0.0584)Ser+(-0.0982)Asn+(-0.0059)Gly+(0.0158)Thr+(-0.3565)Met+(0.1086)Phe;0.804,0.830,0.761,0.743,0.754,0.812,0.789,0.774,(2.2903)+(0.0084)Gln+(-0.1672)His+(0.0088)Thr+(-0.0423)Cit+(-0.0039)Val+(0.0823)Phe;0.804,0.830,0.747,0.725,0.739,0.800,0.786,0.763,(1.8813)+(0.0016)Gly+(0.0073)Gln+(-0.1766)His+(0.0050)Thr+(0.0083)Orn+(0.0686)Phe;0.804,0.840,0.747,0.717,0.750,0.838,0.754,0.765,(3.6487)+(0.0472)Ser+(-0.1209)His+(-0.0030)Arg+(-0.0218)Val+(-0.1684)Met+(0.0634)Leu;0.804,0.838,0.803,0.792,0.817,0.836,0.781,0.807,(7.9803)+(0.0048)Gly+(-0.0919)His+(0.0283)Tyr+(0.0085)Val+(-0.0743)Met+(-0.1087)Trp;0.804,0.831,0.751,0.724,0.732,0.828,0.806,0.773,(5.5277)+(0.0030)Gly+(-0.1274)His+(-0.0059)Ala+(-0.0202)Tyr+(0.0247)Orn+(0.0569)Ile;0.804,0.847,0.821,0.835,0.829,0.777,0.801,0.810,(2.6055)+(0.0043)Gln+(-0.0215)Arg+(-0.0021)Lys+(-0.0013)Leu+(0.0799)Phe+(-0.1731)Trp;0.804,0.842,0.793,0.792,0.796,0.766,0.808,0.790,(2.4046)+(0.0003)Gly+(0.0036)Gln+(-0.0251)Arg+(0.0416)Ile+(0.0547)Phe+(-0.1864)Trp;0.804,0.833,0.823,0.822,0.828,0.836,0.804,0.822,(5.0250)+(0.0017)Gly+(0.0054)Gln+(-0.0051)Ala+(-0.0816)Cit+(0.0215)Leu+(-0.1631)Trp;0.804,0.830,0.776,0.773,0.766,0.856,0.746,0.785,(3.1061)+(0.0304)Ser+(0.0081)Gln+(-0.1449)His+(-0.0016)Ala+(-0.0227)Arg+(0.0022)Lys;0.804,0.830,0.768,0.754,0.752,0.823,0.795,0.781,(3.4369)+(0.0010)Gly+(0.0105)Gln+(-0.1515)His+(-0.0197)Arg+(-0.0227)Tyr+(0.0512)Ile;0.804,0.830,0.785,0.788,0.712,0.859,0.879,0.809,(5.6658)+(-0.0880)Asn+(-0.0070)Ala+(-0.0158)Tyr+(-0.0455)Val+(0.1921)Ile+

(-0.0218)Leu;0.804,0.829,0.730,0.693,0.746,0.822,0.730,0.748,(3.8945)+(0.0465)Ser+(-0.0667)Asn+(-0.1292)His+(-0.0325)Cit+(0.0050)Pro+(0.0180)Leu;0.804,0.840,0.795,0.794,0.798,0.767,0.812,0.793,(2.4369)+(0.0038)Gln+(-0.0246)Arg+(-0.0014)Pro+(0.0429)Ile+(0.0546)Phe+(-0.1859)Trp;0.804,0.838,0.820,0.824,0.811,0.837,0.816,0.822,(4.7759)+(0.0048)Gln+(-0.0301)Val+(-0.1778)Met+(0.0253)Orn+(0.0593)Leu+(-0.1331)Trp;0.804,0.838,0.793,0.797,0.808,0.797,0.748,0.787,(6.2029)+(-0.0017)Gly+(0.0259)Thr+(0.0065)Pro+(-0.2168)Met+(0.0133)Leu+(-0.1504)Trp;0.804,0.835,0.759,0.727,0.748,0.826,0.816,0.779,(5.6358)+(-0.0272)Asn+(-0.1109)His+(-0.0042)Pro+(0.0252)Orn+(0.1116)Ile+(-0.0483)Leu;0.804,0.833,0.823,0.829,0.833,0.842,0.775,0.820,(5.5483)+(0.0045)Gln+(0.0120)Thr+(-0.0050)Ala+(-0.0817)Cit+(0.0065)Val+(-0.1633)Trp;0.804,0.839,0.767,0.763,0.768,0.791,0.761,0.771,(0.1358)+(0.0360)Thr+(-0.0557)Val+(-0.4590)Met+(0.0136)Orn+(0.0773)Leu+(0.1196)Phe;0.804,0.837,0.799,0.801,0.790,0.827,0.794,0.803,(3.9453)+(0.0366)Ser+(-0.0079)Gly+(-0.0036)Ala+(-0.0106)Tyr+(0.0197)Orn+(-0.1425)Trp;0.804,0.837,0.823,0.839,0.819,0.825,0.785,0.817,(5.8458)+(-0.1140)Asn+(0.0055)Gln+(0.0150)Thr+(0.0051)Pro+(-0.0051)Val+(-0.1387)Trp;0.804,0.835,0.821,0.820,0.766,0.899,0.882,0.842,(2.9849)+(-0.0876)Asn+(0.0071)Gln+(-0.0111)Ala+(-0.0937)Cit+(0.1791)Ile+(-0.0823)Leu;0.804,0.833,0.794,0.805,0.796,0.839,0.728,0.792,(4.1390)+(0.0280)Ser+(0.0039)Thr+(-0.0042)Ala+(-0.0218)Arg+(0.0229)Orn+(-0.1430)Trp;0.804,0.833,0.812,0.811,0.816,0.821,0.799,0.812,(8.5471)+(-0.0124)Asn+(-0.0806)His+(0.0001)Ala+(-0.0522)Met+(0.0149)Lys+(-0.1027)Trp;0.804,0.831,0.766,0.744,0.758,0.829,0.798,0.782,(3.1225)+(0.0017)Gly+(0.0105)Gln+(-0.1574)His+(-0.0194)Arg+(-0.0036)Lys+(0.0483)Ile;0.804,0.837,0.735,0.719,0.735,0.782,0.746,0.746,(-4.2374)+(0.0592)Ser+(-0.0722)Asn+(-0.3819)Met+(-0.0089)Orn+(0.0530)Ile+(0.0931)Phe;0.804,0.831,0.755,0.734,0.7

45,0.808,0.793,0.770,(1.8370)+(0.0019)Gly+(0.0078)Gln+(-0.1742)His+(-0.0009)Pro+(0.0107)Orn+(0.0698)Phe;0.804,0.839,0.767,0.758,0.733,0.853,0.797,0.785,(1.6394)+(0.0421)Ser+(-0.1123)Asn+(-0.0102)Ala+(-0.0833)Cit+(-0.0237)Tyr+(0.0693)Ile;0.804,0.838,0.792,0.793,0.787,0.867,0.747,0.799,(3.2318)+(0.0327)Ser+(0.0091)Gln+(-0.1271)His+(-0.0239)Cit+(-0.0134)Arg+(-0.1028)Met;0.804,0.837,0.772,0.768,0.751,0.800,0.806,0.781,(-0.0670)+(-0.0170)Asn+(0.0035)Gly+(-0.3208)Met+(0.1730)Ile+(-0.0952)Leu+(0.1087)Phe;0.804,0.839,0.773,0.745,0.767,0.833,0.814,0.790,(6.0630)+(-0.0927)His+(-0.0072)Arg+(-0.1484)Met+(0.0274)Orn+(0.1292)Ile+(-0.0530)Leu;0.804,0.836,0.810,0.817,0.827,0.826,0.743,0.803,(6.9344)+(-0.0465)Asn+(0.0232)Thr+(0.0100)Tyr+(-0.1526)Met+(0.0169)Orn+(-0.1410)Trp;0.804,0.835,0.774,0.780,0.742,0.792,0.814,0.782,(0.8364)+(-0.0157)Asn+(-0.0350)Tyr+(-0.2541)Met+(0.1735)Ile+(-0.0962)Leu+(0.1161)Phe;0.804,0.832,0.741,0.710,0.758,0.839,0.718,0.756,(2.6685)+(0.0295)Ser+(0.0053)Gln+(-0.1501)His+(-0.0644)Cit+(0.0026)Val+(0.0346)Orn;0.804,0.831,0.768,0.755,0.716,0.830,0.865,0.792,(3.6264)+(-0.1574)Asn+(-0.0567)Val+(0.0237)Orn+(0.1723)Ile+(-0.0169)Leu+(0.0588)Phe;0.804,0.837,0.814,0.813,0.805,0.812,0.838,0.817,(4.2550)+(-0.0870)Asn+(0.0004)Gly+(0.0055)Gln+(-0.0012)Pro+(0.0493)Ile+(-0.1597)Trp;0.804,0.831,0.732,0.692,0.750,0.833,0.727,0.750,(2.2173)+(0.0313)Ser+(0.0052)Gln+(-0.1574)His+(-0.0605)Cit+(0.0293)Orn+(0.0140)Leu;0.804,0.831,0.722,0.675,0.731,0.820,0.754,0.745,(3.1523)+(0.0425)Ser+(-0.0041)Gly+(-0.1526)His+(-0.0011)Thr+(0.0174)Orn+(0.0156)Leu;0.804,0.829,0.769,0.759,0.706,0.855,0.863,0.796,(3.8342)+(0.0094)Thr+(-0.0109)Ala+(-0.0602)Cit+(-0.0156)Arg+(-0.0520)Val+(0.1828)Ile;0.804,0.840,0.757,0.729,0.768,0.846,0.746,0.772,(3.9426)+(0.0458)Ser+(-0.0041)Gly+(-0.1252)His+(0.0049)Val+(-0.1339)Met+(0.0280)Orn;0.804,0.834,0.782,0.765,0.772,0.826,0.814,0.794,(2.3514)+(0.0104)Gln+(-0.1609)His+(-0.0441)Cit+(-0.0013)Val+

(-0.0078)Lys+(0.0864)Phe;0.804,0.832,0.764,0.758,0.696,0.838,0.869,0.790,(2.1579)+(-0.0104)Ala+(-0.0316)Arg+(-0.0603)Val+(0.0233)Orn+(0.1786)Ile+(0.0482)Phe;0.804,0.831,0.751,0.730,0.724,0.825,0.813,0.773,(5.8874)+(-0.1278)His+(0.0161)Thr+(-0.0065)Ala+(0.0035)Pro+(-0.0283)Tyr+(0.0578)Ile;0.804,0.839,0.750,0.745,0.680,0.833,0.847,0.776,(-1.6032)+(0.0327)Ser+(-0.0128)Ala+(-0.0213)Lys+(0.1735)Ile+(-0.0864)Leu+(0.0623)Phe;0.804,0.838,0.789,0.774,0.794,0.826,0.795,0.797,(8.0042)+(0.0043)Gly+(-0.0881)His+(-0.0169)Val+(-0.0601)Met+(0.0552)Leu+(-0.1031)Trp;0.804,0.834,0.775,0.746,0.752,0.834,0.856,0.797,(5.0070)+(-0.0139)Asn+(-0.1269)His+(-0.0069)Ala+(-0.0044)Lys+(0.0468)Ile+(0.0604)Phe;0.804,0.832,0.768,0.755,0.734,0.838,0.825,0.788,(3.8269)+(0.0084)Gln+(-0.1155)His+(-0.0259)Arg+(-0.0277)Val+(0.1331)Ile+(-0.0145)Leu;0.804,0.830,0.738,0.704,0.739,0.840,0.749,0.758,(3.7638)+(0.0435)Ser+(-0.1397)His+(-0.0037)Ala+(-0.0094)Arg+(-0.0049)Lys+(0.0266)Leu;0.804,0.836,0.843,0.858,0.844,0.857,0.789,0.837,(5.4627)+(0.0009)Gly+(0.0072)Gln+(-0.0013)Ala+(-0.0653)Cit+(-0.0835)Met+(-0.1374)Trp;0.804,0.836,0.814,0.824,0.835,0.829,0.730,0.805,(7.5369)+(-0.0370)Asn+(0.0293)Thr+(-0.0115)Arg+(0.0169)Tyr+(-0.1579)Met+(-0.1421)Trp;0.804,0.835,0.804,0.804,0.820,0.815,0.759,0.800,(5.2496)+(0.0041)Gln+(0.0110)Thr+(-0.0828)Cit+(-0.0120)Tyr+(0.0151)Leu+(-0.1731)Trp;0.804,0.839,0.814,0.810,0.808,0.816,0.837,0.818,(4.3713)+(-0.0809)Asn+(0.0055)Gln+(0.0044)Orn+(-0.0043)Lys+(0.0490)Ile+(-0.1571)Trp;0.804,0.830,0.729,0.687,0.746,0.827,0.732,0.748,(3.5800)+(0.0444)Ser+(-0.0037)Gly+(-0.1462)His+(-0.0166)Arg+(0.0219)Orn+(0.0146)Leu;0.804,0.827,0.720,0.676,0.727,0.814,0.753,0.742,(3.1306)+(0.0443)Ser+(-0.0041)Gly+(-0.1515)His+(0.0004)Thr+(0.0033)Pro+(0.0166)Leu;0.804,0.833,0.730,0.701,0.710,0.819,0.785,0.754,(5.5954)+(-0.1042)His+(0.0147)Thr+(-0.0285)Arg+(-0.0403)Val+(0.0291)Orn+(0.1353)Ile;0.804,0.831,0.754,0.731,0.746,0.802,0.796,0.769,(2.04

47)+(0.0076)Gln+(-0.1756)His+(0.0056)Thr+(0.0090)Orn+(-0.0016)Leu+(0.0683)Phe;0.804,0.839,0.744,0.721,0.753,0.834,0.718,0.757,(3.5119)+(0.0449)Ser+(-0.1228)His+(0.0114)Pro+(0.0043)Val+(-0.1829)Met+(0.0045)Lys;0.804,0.838,0.844,0.845,0.857,0.848,0.809,0.840,(5.0337)+(0.0072)Gln+(-0.0719)Cit+(0.0229)Tyr+(0.0048)Val+(-0.1354)Met+(-0.1531)Trp;0.804,0.834,0.774,0.754,0.750,0.826,0.836,0.792,(5.1343)+(-0.1182)His+(-0.0067)Ala+(-0.0464)Cit+(-0.0376)Tyr+(0.0524)Ile+(0.0817)Phe;0.804,0.833,0.726,0.717,0.728,0.777,0.707,0.732,(4.1720)+(0.0033)Gly+(-0.1452)His+(0.0218)Thr+(-0.0447)Cit+(-0.0537)Tyr+(0.1116)Phe;0.804,0.838,0.750,0.735,0.761,0.842,0.702,0.760,(4.2212)+(0.0385)Ser+(-0.1291)His+(0.0171)Thr+(-0.0012)Ala+(0.0092)Val+(-0.1738)Met;0.804,0.837,0.816,0.823,0.837,0.834,0.744,0.809,(8.2917)+(-0.0736)Asn+(0.0220)Thr+(-0.0678)Cit+(-0.0006)Tyr+(0.0020)Lys+(-0.1474)Trp;0.804,0.836,0.778,0.761,0.776,0.823,0.797,0.789,(2.1292)+(0.0109)Gln+(-0.1701)His+(-0.0221)Arg+(0.0152)Orn+(-0.0038)Lys+(0.0745)Phe;0.804,0.829,0.760,0.743,0.715,0.822,0.856,0.784,(3.6811)+(-0.1972)Asn+(0.0159)Thr+(-0.0646)Val+(0.0194)Orn+(0.1653)Ile+(0.0622)Phe;0.804,0.836,0.847,0.854,0.855,0.848,0.814,0.843,(5.8144)+(-0.0763)Asn+(0.0084)Gln+(-0.0758)Cit+(0.0057)Tyr+(0.0032)Val+(-0.1501)Trp;0.804,0.833,0.766,0.749,0.767,0.814,0.776,0.777,(2.1230)+(0.0106)Gln+(-0.1754)His+(0.0133)Thr+(-0.0286)Cit+(-0.0246)Arg+(0.0810)Phe;0.804,0.832,0.836,0.844,0.844,0.840,0.794,0.830,(5.1220)+(0.0071)Gln+(-0.0694)Cit+(0.0048)Val+(-0.1079)Met+(0.0026)Lys+(-0.1487)Trp;0.804,0.830,0.809,0.804,0.811,0.844,0.790,0.813,(8.4149)+(-0.0157)Asn+(0.0037)Gly+(-0.0830)His+(-0.0012)Ala+(0.0246)Tyr+(-0.1008)Trp;0.804,0.828,0.763,0.749,0.722,0.828,0.838,0.784,(6.7946)+(-0.0456)Asn+(-0.0725)His+(-0.0072)Arg+(-0.0147)Tyr+(-0.0395)Val+(0.1437)Ile;0.804,0.827,0.781,0.778,0.713,0.862,0.872,0.806,(5.3077)+(-0.0965)Asn+(0.0030)Gly+(-0.0071)Ala+(-0.0093)Arg+(-0.0544)Val+(0.1817)Ile;0.

804,0.837,0.778,0.766,0.783,0.748,0.820,0.779,(2.9690)+(0.0002)Gly+(-0.0022)Pro+(-0.0051)Orn+(0.0446)Ile+(0.0491)Phe+(-0.1858)Trp;0.804,0.833,0.803,0.806,0.795,0.832,0.793,0.806,(4.4189)+(0.0376)Ser+(-0.0080)Gly+(0.0055)Thr+(-0.0030)Ala+(-0.0051)Lys+(-0.1424)Trp;0.804,0.827,0.754,0.734,0.743,0.816,0.784,0.769,(3.6028)+(0.0082)Gln+(-0.1452)His+(0.0098)Thr+(-0.0477)Cit+(-0.0329)Tyr+(0.0538)Ile;0.804,0.838,0.776,0.769,0.779,0.789,0.780,0.779,(3.2573)+(0.0385)Ser+(-0.0085)Gly+(-0.0006)Gln+(0.0044)Pro+(0.0096)Orn+(-0.1585)Trp;0.804,0.836,0.805,0.817,0.817,0.819,0.738,0.798,(6.7255)+(-0.0026)Gly+(0.0235)Thr+(-0.0018)Val+(-0.1718)Met+(0.0193)Orn+(-0.1403)Trp;0.804,0.837,0.747,0.726,0.732,0.790,0.801,0.762,(4.8013)+(-0.0229)Asn+(-0.1346)His+(-0.0513)Tyr+(0.0232)Orn+(0.0333)Ile+(0.0756)Phe;0.804,0.842,0.768,0.768,0.757,0.802,0.768,0.774,(0.2766)+(0.0263)Thr+(-0.0283)Arg+(-0.3775)Met+(0.1775)Ile+(-0.0982)Leu+(0.1186)Phe;0.804,0.836,0.777,0.744,0.788,0.807,0.824,0.790,(4.3882)+(-0.1166)His+(-0.0306)Cit+(-0.2217)Met+(0.0022)Lys+(0.0474)Ile+(0.0948)Phe;0.804,0.840,0.728,0.743,0.725,0.773,0.660,0.725,(-3.3761)+(0.0421)Ser+(0.0146)Thr+(0.0133)Pro+(-0.0181)Val+(-0.4526)Met+(0.1385)Phe;0.804,0.839,0.808,0.822,0.796,0.783,0.812,0.803,(3.7844)+(-0.0005)Gly+(-0.0052)Ala+(-0.0261)Tyr+(0.0130)Orn+(0.0870)Phe+(-0.1520)Trp;0.804,0.832,0.736,0.715,0.700,0.813,0.810,0.760,(5.6589)+(-0.0998)His+(0.0144)Thr+(-0.0265)Tyr+(-0.0327)Val+(-0.0051)Lys+(0.1305)Ile;0.804,0.832,0.769,0.743,0.756,0.836,0.816,0.788,(5.6838)+(0.0057)Gly+(-0.1079)His+(-0.0063)Ala+(0.0066)Pro+(-0.1516)Met+(0.0695)Ile;0.804,0.829,0.737,0.721,0.731,0.824,0.730,0.751,(2.5605)+(0.0305)Ser+(0.0056)Gln+(-0.1535)His+(0.0060)Pro+(-0.0200)Tyr+(0.0048)Val;0.804,0.839,0.759,0.743,0.770,0.851,0.710,0.769,(4.5767)+(0.0390)Ser+(-0.1185)His+(-0.0010)Ala+(-0.0132)Arg+(-0.0977)Met+(0.0354)Orn;0.804,0.837,0.742,0.730,0.698,0.820,0.809,0.764,(-1.8120)+(0.0497)Ser+(-0.1619)Asn

+(-0.0148)Thr+(0.1548)Ile+(-0.0947)Leu+(0.0788)Phe;0.804,0.839,0.767,0.763,0.771,0.786,0.756,0.769,(0.0602)+(0.0011)Gly+(0.0382)Thr+(-0.0547)Val+(-0.4689)Met+(0.0781)Leu+(0.1244)Phe;0.804,0.838,0.789,0.780,0.792,0.797,0.803,0.793,(5.6575)+(-0.0818)Asn+(0.0001)Gly+(0.0133)Thr+(0.0025)Orn+(0.0462)Ile+(-0.1603)Trp;0.804,0.838,0.800,0.799,0.792,0.827,0.802,0.805,(3.7180)+(0.0363)Ser+(-0.0076)Gly+(-0.0043)Ala+(0.0006)Val+(0.0174)Orn+(-0.1469)Trp;0.804,0.837,0.784,0.781,0.782,0.800,0.783,0.786,(3.5196)+(0.0411)Ser+(-0.0088)Gly+(0.0006)Gln+(0.0060)Pro+(-0.0073)Lys+(-0.1495)Trp;0.804,0.833,0.815,0.813,0.820,0.830,0.798,0.815,(7.3751)+(-0.0069)Ala+(-0.0746)Cit+(0.0134)Pro+(0.0041)Val+(0.0023)Lys+(-0.1468)Trp;0.804,0.824,0.709,0.671,0.708,0.812,0.738,0.732,(3.1837)+(0.0370)Ser+(-0.1468)H

is+(0.0027)Thr+(0.0037)Pro+(-0.0188)Val+(0.0445)Leu;0.804,0.834,0.816,0.812,0.821,0.831,0.805,0.817,(7.3929)+(-0.0070)Ala+(-0.0781)Cit+(0.0044)Arg+(0.0133)Pro+(0.0048)Val+(-0.1465)Trp;0.804,0.832,0.799,0.802,0.803,0.818,0.769,0.798,(8.3057)+(-0.0252)Asn+(0.0035)Gly+(-0.0861)His+(-0.0066)Arg+(0.0142)Lys+(-0.1025)Trp;0.804,0.830,0.754,0.733,0.744,0.807,0.789,0.768,(1.8427)+(0.0019)Gly+(0.0077)Gln+(-0.1736)His+(0.0107)Orn+(-0.0016)Leu+(0.0705)Phe;0.804,0.842,0.811,0.829,0.808,0.773,0.796,0.802,(4.7083)+(-0.0650)Asn+(-0.0296)Tyr+(0.0163)Orn+(-0.0042)Leu+(0.0879)Phe+(-0.1412)Trp;0.804,0.834,0.757,0.767,0.667,0.823,0.874,0.782,(1.5649)+(0.0032)Thr+(-0.0099)Ala+(-0.0485)Tyr+(-0.0528)Val+(0.1650)Ile+(0.0621)Phe;0.804,0.829,0.747,0.763,0.683,0.790,0.808,0.761,(2.1499)+(-0.0305)Arg+(-0.0626)Tyr+(-0.0391)Val+(0.2008)Ile+(-0.0564)Leu+(0.0890)Phe;0.804,0.840,0.798,0.803,0.816,0.762,0.773,0.789,(3.7594)+(0.0005)Gly+(-0.0209)Arg+(0.0029)Pro+(0.0110)Orn+(0.0710)Phe+(-0.1697)Trp;0.804,0.840,0.818,0.826,0.831,0.781,0.798,0.809,(3.8176)+(-0.0089)Arg+(-0.2073)Met+(0.0120)Orn+(0.0057)Lys+(0.1026)Phe+(-0.1456

)Trp;0.804,0.837,0.818,0.824,0.839,0.836,0.745,0.811,(8.4011)+(-0.070
6)Asn+(0.0227)Thr+(-0.0674)Cit+(-0.0008)Arg+(0.0003)Tyr+(-0.1463)Trp;
0.804,0.837,0.793,0.785,0.780,0.820,0.821,0.802,(5.4497)+(-0.0004)Gly
+(0.0161)Thr+(-0.0085)Ala+(-0.0198)Arg+(0.0675)Ile+(-0.1629)Trp;0.804
,0.835,0.813,0.814,0.819,0.839,0.780,0.813,(7.1777)+(0.0033)Gly+(-0.0
068)Ala+(-0.0786)Cit+(0.0143)Pro+(0.0092)Tyr+(-0.1431)Trp;0.804,0.831
,0.785,0.782,0.733,0.861,0.847,0.806,(3.9798)+(-0.1608)Asn+(0.0042)Gl
y+(0.0059)Gln+(-0.0660)Cit+(-0.0525)Val+(0.1643)Ile;0.804,0.830,0.729
,0.694,0.745,0.827,0.718,0.746,(4.2013)+(0.0434)Ser+(-0.0736)Asn+(-0.
1339)His+(0.0100)Thr+(-0.0361)Cit+(0.0208)Leu;0.804,0.837,0.770,0.778
,0.780,0.810,0.698,0.767,(3.4698)+(0.0315)Ser+(-0.0228)Arg+(0.0057)Pr
o+(0.0165)Orn+(-0.0031)Lys+(-0.1495)Trp;0.804,0.837,0.754,0.735,0.765
,0.839,0.723,0.765,(4.2866)+(0.0435)Ser+(-0.0040)Gly+(-0.1270)His+(0.
0178)Thr+(0.0078)Val+(-0.1788)Met;0.804,0.835,0.777,0.761,0.774,0.819
,0.794,0.787,(2.0440)+(0.0109)Gln+(-0.1709)His+(-0.0242)Arg+(0.0146)O
rn+(-0.0036)Leu+(0.0761)Phe;0.804,0.834,0.816,0.819,0.836,0.833,0.754
,0.810,(5.6100)+(0.0047)Gln+(0.0119)Thr+(-0.0841)Cit+(0.0051)Val+(-0.
0067)Lys+(-0.1663)Trp;0.804,0.834,0.808,0.800,0.795,0.825,0.845,0.816
,(5.9921)+(-0.0033)Asn+(-0.0054)Ala+(-0.0007)Arg+(-0.1256)Met+(0.0741
)Ile+(-0.1395)Trp;0.804,0.834,0.767,0.775,0.677,0.824,0.888,0.791,(2.
1740)+(-0.0025)Gly+(-0.0095)Ala+(-0.0479)Tyr+(-0.0531)Val+(0.1668)Ile
+(0.0633)Phe;0.804,0.829,0.781,0.778,0.709,0.862,0.879,0.807,(5.1218)
+(-0.1129)Asn+(0.0028)Gly+(-0.0074)Ala+(-0.0544)Val+(0.0017)Lys+(0.17
93)Ile;0.804,0.828,0.735,0.720,0.706,0.811,0.781,0.755,(6.2468)+(-0.0
957)His+(0.0212)Thr+(-0.0249)Arg+(-0.0283)Tyr+(-0.0368)Val+(0.1403)Il
e;0.804,0.838,0.781,0.785,0.781,0.801,0.757,0.781,(4.2517)+(0.0435)Se
r+(-0.0086)Gly+(-0.0188)Arg+(0.0088)Pro+(-0.0157)Tyr+(-0.1455)Trp;0.8
04,0.837,0.792,0.791,0.804,0.813,0.755,0.791,(4.1262)+(0.0393)Ser+(-0

.0083)Gly+(0.0030)Thr+(-0.0231)Arg+(0.0192)Orn+(-0.1521)Trp;0.804,0.830,0.785,0.767,0.780,0.835,0.805,0.797,(4.3789)+(-0.0755)Asn+(0.0104)Gln+(-0.1539)His+(0.0149)Thr+(-0.0047)Lys+(0.0155)Leu;0.803,0.846,0.803,0.819,0.799,0.755,0.803,0.794,(4.6034)+(-0.0631)Asn+(0.0052)Pro+(-0.0325)Tyr+(0.0019)Lys+(0.0886)Phe+(-0.1496)Trp;0.803,0.831,0.813,0.814,0.832,0.838,0.749,0.809,(7.4015)+(0.0184)Thr+(-0.0046)Ala+(-0.0777)Cit+(0.0072)Val+(-0.0040)Lys+(-0.1563)Trp;0.803,0.843,0.802,0.810,0.821,0.766,0.772,0.792,(3.8876)+(-0.0210)Arg+(0.0033)Pro+(0.0127)Orn+(-0.0051)Leu+(0.0741)Phe+(-0.1657)Trp;0.803,0.840,0.818,0.825,0.815,0.798,0.820,0.815,(3.9291)+(0.0013)Gly+(-0.0059)Ala+(-0.0147)Arg+(0.0047)Leu+(0.0881)Phe+(-0.1614)Trp;0.803,0.840,0.801,0.803,0.796,0.821,0.793,0.803,(7.3691)+(-0.1049)Asn+(0.0242)Thr+(-0.0074)Tyr+(-0.0320)Val+(0.0607)Leu+(-0.1375)Trp;0.803,0.834,0.809,0.815,0.828,0.819,0.749,0.803,(5.5438)+(0.0046)Gln+(0.0104)Thr+(-0.0769)Cit+(-0.0113)Arg+(0.0067)Pro+(-0.1659)Trp;0.803,0.833,0.795,0.784,0.800,0.800,0.812,0.799,(5.7203)+(-0.0121)Asn+(0.0023)Pro+(-0.1651)Met+(0.0099)Orn+(0.0589)Ile+(-0.1424)Trp;0.803,0.839,0.758,0.754,0.758,0.778,0.753,0.761,(0.2802)+(0.0371)Thr+(0.0088)Pro+(-0.0540)Val+(-0.4846)Met+(0.0730)Leu+(0.1208)Phe;0.803,0.836,0.756,0.737,0.761,0.838,0.735,0.768,(4.3001)+(0.0511)Ser+(-0.0042)Gly+(-0.1107)His+(-0.0101)Arg+(0.0128)Pro+(-0.1447)Met;0.803,0.836,0.814,0.834,0.827,0.827,0.725,0.803,(5.2364)+(0.0053)Gln+(0.0255)Thr+(-0.0205)Arg+(-0.1953)Met+(0.0059)Lys+(-0.1476)Trp;0.803,0.834,0.804,0.782,0.813,0.833,0.824,0.813,(8.4860)+(-0.0806)His+(-0.0029)Ala+(-0.0462)Cit+(0.0114)Arg+(0.0292)Leu+(-0.1185)Trp;0.803,0.833,0.792,0.776,0.792,0.814,0.820,0.801,(8.3045)+(-0.0173)Asn+(-0.0895)His+(-0.0169)Val+(0.0069)Lys+(0.0473)Leu+(-0.1101)Trp;0.803,0.833,0.733,0.694,0.765,0.842,0.694,0.749,(4.2531)+(0.0371)Ser+(-0.1280)His+(-0.0695)Cit+(0.0042)Val+(0.0470)Orn+(-0.0102)Lys;0.803,0.832,0.767,0.

742,0.762,0.830,0.799,0.783,(3.3127)+(0.0103)Gln+(-0.1575)His+(-0.0195)Arg+(0.0138)Orn+(-0.0050)Lys+(0.0443)Ile;0.803,0.831,0.746,0.719,0.750,0.831,0.750,0.763,(4.5432)+(0.0464)Ser+(-0.0691)Asn+(-0.0041)Gly+(-0.1225)His+(0.0052)Thr+(0.0069)Pro;0.803,0.831,0.735,0.700,0.733,0.837,0.756,0.757,(3.6329)+(0.0423)Ser+(-0.1414)His+(-0.0038)Ala+(-0.0027)Tyr+(-0.0073)Lys+(0.0283)Leu;0.803,0.835,0.782,0.778,0.779,0.794,0.787,0.785,(3.3566)+(0.0402)Ser+(-0.0083)Gly+(-0.0033)Thr+(0.0064)Pro+(-0.0019)Val+(-0.1522)Trp;0.803,0.848,0.718,0.690,0.741,0.785,0.698,0.728,(-4.4155)+(0.0564)Ser+(-0.0878)Cit+(0.0052)Pro+(-0.4491)Met+(0.0520)Ile+(0.1032)Phe;0.803,0.847,0.727,0.702,0.749,0.788,0.701,0.735,(-4.2639)+(0.0566)Ser+(-0.0829)Cit+(-0.0060)Arg+(-0.4260)Met+(0.0584)Ile+(0.1026)Phe;0.803,0.837,0.727,0.710,0.730,0.777,0.730,0.737,(-4.2836)+(0.0587)Ser+(-0.0758)Asn+(0.0044)Pro+(-0.3914)Met+(0.0443)Ile+(0.0918)Phe;0.803,0.837,0.774,0.750,0.759,0.832,0.825,0.791,(5.4762)+(0.0279)Asn+(-0.0987)His+(-0.1993)Met+(0.0079)Lys+(0.1374)Ile+(-0.0533)Leu;0.803,0.836,0.772,0.748,0.757,0.829,0.824,0.789,(5.7256)+(0.0329)Asn+(-0.0944)His+(0.0007)Pro+(-0.1859)Met+(0.1350)Ile+(-0.0497)Leu;0.803,0.841,0.809,0.826,0.807,0.765,0.800,0.799,(4.4336)+(-0.0667)Asn+(0.0015)Gly+(-0.0270)Tyr+(0.0026)Lys+(0.0918)Phe+(-0.1489)Trp;0.803,0.832,0.731,0.721,0.730,0.773,0.730,0.739,(4.6602)+(-0.1444)His+(0.0242)Thr+(-0.0393)Cit+(-0.0583)Tyr+(0.0022)Leu+(0.1072)Phe;0.803,0.844,0.802,0.809,0.816,0.762,0.780,0.792,(3.7471)+(0.0008)Gly+(-0.0188)Arg+(0.0040)Pro+(-0.0031)Leu+(0.0796)Phe+(-0.1684)Trp;0.803,0.833,0.791,0.769,0.794,0.819,0.823,0.801,(8.1692)+(-0.0942)His+(0.0003)Arg+(0.0146)Tyr+(-0.0177)Val+(0.0510)Leu+(-0.1132)Trp;0.803,0.833,0.760,0.746,0.769,0.795,0.757,0.766,(3.5455)+(0.0070)Gly+(-0.1275)His+(0.0071)Pro+(-0.0117)Tyr+(-0.2079)Met+(0.1283)Phe;0.803,0.841,0.791,0.783,0.791,0.870,0.759,0.801,(2.7738)+(0.0342)Ser+(0.0083)Gln+(-0.1297)His+(-0.033

3)Cit+(0.0234)Tyr+(-0.1616)Met;0.803,0.838,0.789,0.785,0.784,0.849,0.768,0.797,(4.5487)+(0.0084)Gln+(-0.1385)His+(0.0192)Thr+(-0.0009)Ala+(-0.1621)Met+(0.0212)Orn;0.803,0.837,0.802,0.792,0.768,0.869,0.853,0.821,(4.8632)+(-0.0108)Ala+(-0.0740)Cit+(0.0080)Pro+(-0.1598)Met+(0.1742)Ile+(-0.0757)Leu;0.803,0.831,0.803,0.784,0.797,0.850,0.836,0.817,(3.6538)+(0.0113)Gln+(-0.1377)His+(0.0174)Tyr+(-0.0224)Val+(-0.1837)Met+(0.0554)Leu;0.803,0.830,0.764,0.746,0.745,0.821,0.811,0.781,(3.5702)+(0.0005)Gly+(0.0087)Gln+(-0.1484)His+(-0.0229)Tyr+(-0.0056)Lys+(0.0525)Ile;0.803,0.829,0.753,0.733,0.744,0.847,0.761,0.771,(4.4130)+(0.0465)Ser+(-0.0044)Gly+(-0.1213)His+(-0.0053)Ala+(-0.0147)Arg+(0.0122)Pro;0.803,0.827,0.740,0.715,0.741,0.826,0.744,0.757,(2.3299)+(0.0327)Ser+(0.0063)Gln+(-0.1548)His+(-0.0388)Cit+(-0.0157)Tyr+(0.0213)Leu;0.803,0.841,0.804,0.803,0.807,0.826,0.786,0.806,(7.5144)+(-0.0960)Asn+(0.0262)Thr+(-0.0120)Arg+(-0.0323)Val+(0.0610)Leu+(-0.1396)Trp;0.803,0.838,0.812,0.810,0.808,0.818,0.824,0.815,(3.8574)+(0.0062)Gln+(-0.0094)Arg+(-0.1913)Met+(0.0004)Lys+(0.0649)Ile+(-0.1487)Trp;0.803,0.837,0.814,0.812,0.806,0.812,0.839,0.817,(4.2859)+(-0.0872)Asn+(0.0055)Gln+(-0.0013)Pro+(0.0032)Orn+(0.0481)Ile+(-0.1595)Trp;0.803,0.833,0.802,0.788,0.818,0.818,0.795,0.805,(8.5548)+(-0.0755)His+(-0.0407)Cit+(0.0069)Pro+(0.0076)Tyr+(0.0066)Val+(-0.1184)Trp;0.803,0.844,0.819,0.825,0.834,0.780,0.799,0.809,(4.8402)+(-0.0621)Asn+(-0.0132)Arg+(0.0148)Orn+(0.0018)Lys+(0.0725)Phe+(-0.1555)Trp;0.803,0.837,0.773,0.761,0.776,0.792,0.785,0.779,(3.2210)+(0.0440)Ser+(-0.0086)Gly+(0.0044)Pro+(-0.0108)Lys+(0.0133)Leu+(-0.1562)Trp;0.803,0.837,0.798,0.801,0.805,0.816,0.764,0.796,(3.7175)+(0.0391)Ser+(-0.0084)Gly+(0.0014)Gln+(-0.0233)Arg+(0.0191)Orn+(-0.1519)Trp;0.803,0.836,0.820,0.842,0.828,0.841,0.733,0.811,(5.5052)+(0.0056)Gln+(0.0267)Thr+(-0.0015)Ala+(-0.0174)Arg+(-0.1743)Met+(-0.1425)Trp;0.803,0.831,0.795,0.782,0.780,0.848,0.822,0.808,(

4.4985)+(-0.0756)Asn+(0.0101)Gln+(-0.1503)His+(0.0148)Thr+(-0.0039)Al
a+(0.0171)Leu;0.803,0.830,0.776,0.750,0.767,0.839,0.816,0.793,(3.2833
)+(0.0112)Gln+(-0.1486)His+(-0.0416)Cit+(-0.0104)Arg+(-0.0070)Lys+(0.
0532)Ile;0.803,0.830,0.750,0.733,0.733,0.782,0.809,0.764,(4.9295)+(-0
.0188)Asn+(-0.1319)His+(0.0005)Pro+(-0.0484)Tyr+(0.0376)Ile+(0.0802)P
he;0.803,0.834,0.780,0.761,0.772,0.827,0.813,0.793,(2.3155)+(0.0105)G
ln+(-0.1621)His+(-0.0451)Cit+(0.0007)Pro+(-0.0084)Lys+(0.0839)Phe;0.8
03,0.838,0.755,0.734,0.767,0.851,0.718,0.767,(3.9541)+(0.0388)Ser+(-0
.1230)His+(0.0104)Tyr+(-0.1481)Met+(0.0288)Orn+(0.0022)Lys;0.803,0.83
6,0.747,0.715,0.765,0.833,0.732,0.761,(3.7733)+(0.0488)Ser+(-0.0199)A
sn+(-0.1229)His+(-0.0294)Cit+(-0.1421)Met+(0.0296)Leu;0.803,0.836,0.8
14,0.801,0.807,0.833,0.854,0.824,(5.7716)+(-0.0060)Ala+(-0.0019)Arg+(
0.0223)Tyr+(-0.1584)Met+(0.0740)Ile+(-0.1443)Trp;0.803,0.835,0.757,0.
765,0.669,0.825,0.870,0.782,(1.5615)+(-0.0098)Ala+(-0.0477)Tyr+(-0.05
33)Val+(0.0143)Orn+(0.1630)Ile+(0.0579)Phe;0.803,0.829,0.771,0.761,0.
706,0.857,0.867,0.798,(3.6676)+(0.0025)Gly+(-0.0108)Ala+(-0.0654)Cit+
(-0.0098)Arg+(-0.0498)Val+(0.1808)Ile;0.803,0.838,0.741,0.703,0.758,0
.833,0.742,0.759,(3.0850)+(0.0491)Ser+(-0.1346)His+(0.0152)Tyr+(-0.18
31)Met+(-0.0018)Lys+(0.0306)Leu;0.803,0.837,0.769,0.777,0.781,0.807,0
.698,0.766,(3.3758)+(0.0309)Ser+(-0.0005)Thr+(-0.0243)Arg+(0.0056)Pro
+(0.0153)Orn+(-0.1524)Trp;0.8
03,0.836,0.810,0.813,0.796,0.810,0.830,0.812,(4.4859)+(-0.0799)Asn+(-
0.0001)Gly+(0.0057)Gln+(-0.0159)Tyr+(0.0501)Ile+(-0.1543)Trp;0.803,0.
839,0.774,0.784,0.782,0.819,0.699,0.771,(3.6498)+(0.0301)Ser+(-0.0246
)Arg+(0.0064)Pro+(-0.0035)Val+(0.0179)Orn+(-0.1474)Trp;0.803,0.837,0.
797,0.787,0.775,0.817,0.853,0.808,(5.4536)+(-0.0089)Ala+(0.0057)Pro+(
-0.0056)Tyr+(-0.0049)Lys+(0.0663)Ile+(-0.1492)Trp;0.803,0.836,0.804,0
.806,0.813,0.832,0.759,0.803,(8.2179)+(0.0041)Gly+(-0.0769)His+(-0.03

15)Cit+(-0.0561)Met+(0.0140)Lys+(-0.1032)Trp;0.803,0.833,0.818,0.813,0.826,0.831,0.803,0.818,(7.4669)+(-0.0070)Ala+(-0.0759)Cit+(0.0131)Pro+(0.0062)Tyr+(0.0046)Val+(-0.1475)Trp;0.803,0.833,0.797,0.780,0.800,0.817,0.818,0.804,(8.1961)+(-0.0958)His+(-0.0023)Ala+(-0.0008)Arg+(0.0070)Lys+(0.0230)Leu+(-0.1133)Trp;0.803,0.833,0.744,0.737,0.665,0.853,0.851,0.777,(1.4362)+(0.0280)Ser+(-0.0098)Ala+(-0.0125)Tyr+(-0.0474)Val+(-0.0165)Lys+(0.1762)Ile;0.803,0.832,0.748,0.719,0.763,0.856,0.718,0.764,(4.4257)+(0.0334)Ser+(-0.1203)His+(0.0009)Thr+(-0.0047)Ala+(-0.0737)Cit+(0.0501)Orn;0.803,0.833,0.731,0.699,0.747,0.828,0.714,0.747,(4.2300)+(0.0433)Ser+(-0.0630)Asn+(-0.1391)His+(0.0104)Thr+(-0.0132)Arg+(0.0199)Leu;0.803,0.830,0.786,0.786,0.714,0.857,0.885,0.811,(5.6903)+(-0.1010)Asn+(-0.0069)Ala+(-0.0152)Tyr+(-0.0536)Val+(0.0029)Lys+(0.1780)Ile;0.803,0.841,0.776,0.767,0.793,0.758,0.778,0.774,(3.4448)+(0.0132)Thr+(-0.0275)Arg+(-0.0022)Pro+(0.0423)Ile+(0.0567)Phe+(-0.1879)Trp;0.803,0.838,0.762,0.755,0.776,0.855,0.686,0.768,(5.4153)+(0.0381)Ser+(-0.0417)Asn+(-0.1058)His+(0.0212)Thr+(-0.0347)Cit+(-0.1291)Met;0.803,0.837,0.730,0.699,0.738,0.824,0.728,0.747,(3.9987)+(0.0424)Ser+(-0.0665)Asn+(-0.1346)His+(-0.0178)Tyr+(0.0251)Orn+(0.0189)Leu;0.803,0.836,0.786,0.791,0.801,0.798,0.735,0.781,(5.8023)+(0.0230)Thr+(0.0062)Pro+(-0.2168)Met+(0.0084)Orn+(0.0122)Leu+(-0.1486)Trp;0.803,0.835,0.759,0.746,0.768,0.854,0.704,0.768,(4.5457)+(0.0365)Ser+(-0.1203)His+(0.0172)Thr+(-0.0003)Ala+(0.0173)Tyr+(-0.1836)Met;0.803,0.835,0.831,0.831,0.835,0.839,0.822,0.832,(5.3163)+(0.0063)Gln+(-0.0049)Ala+(-0.0807)Cit+(-0.0053)Lys+(0.0234)Leu+(-0.1597)Trp;0.803,0.834,0.796,0.809,0.819,0.814,0.701,0.786,(6.5774)+(0.0249)Thr+(-0.0186)Arg+(-0.1762)Met+(0.0189)Orn+(0.0055)Lys+(-0.1435)Trp;0.803,0.832,0.754,0.725,0.742,0.819,0.810,0.774,(5.8346)+(-0.0395)Asn+(-0.1138)His+(0.0122)Thr+(-0.0013)Lys+(0.1013)Ile+(-0.0408)Leu;0.803,0.830,0.721,0.702,0.644,0.84

0,0.844,0.758,(1.6954)+(0.0278)Ser+(-0.0056)Gln+(-0.0110)Ala+(-0.0538)Val+(0.0154)Orn+(0.1766)Ile;0.803,0.843,0.827,0.836,0.836,0.781,0.820,0.818,(4.0456)+(-0.0243)Asn+(0.0023)Tyr+(-0.1996)Met+(0.0068)Lys+(0.1058)Phe+(-0.1461)Trp;0.803,0.839,0.776,0.749,0.780,0.805,0.820,0.788,(4.6599)+(-0.1144)His+(-0.0312)Cit+(-0.0216)Tyr+(-0.1860)Met+(0.0493)Ile+(0.1013)Phe;0.803,0.837,0.790,0.793,0.792,0.805,0.769,0.790,(3.6221)+(0.0411)Ser+(-0.0084)Gly+(0.0016)Gln+(-0.0224)Arg+(0.0068)Pro+(-0.1542)Trp;0.803,0.835,0.767,0.751,0.775,0.806,0.764,0.774,(3.7193)+(0.0071)Gly+(-0.1325)His+(-0.0070)Tyr+(-0.1969)Met+(0.0063)Leu+(0.1255)Phe;0.803,0.835,0.813,0.827,0.830,0.826,0.731,0.804,(7.9346)+(-0.0376)Asn+(-0.0017)Gly+(0.0308)Thr+(-0.0107)Arg+(-0.1345)Met+(-0.1378)Trp;0.803,0.834,0.747,0.729,0.756,0.845,0.708,0.759,(4.5663)+(0.0343)Ser+(-0.1311)His+(0.0048)Thr+(-0.0029)Ala+(-0.0193)Arg+(0.0310)Orn;0.803,0.832,0.810,0.819,0.828,0.816,0.746,0.802,(6.5871)+(-0.0019)Gly+(0.0247)Thr+(0.0157)Tyr+(-0.2007)Met+(0.0039)Lys+(-0.1496)Trp;0.803,0.830,0.759,0.735,0.758,0.823,0.782,0.774,(3.0214)+(0.0017)Gly+(0.0099)Gln+(-0.1613)His+(-0.0223)Arg+(0.0116)Orn+(0.0426)Ile;0.803,0.839,0.814,0.811,0.805,0.814,0.838,0.817,(4.3441)+(-0.0808)Asn+(0.0002)Gly+(0.0056)Gln+(-0.0038)Lys+(0.0503)Ile+(-0.1576)Trp;0.803,0.836,0.728,0.688,0.743,0.826,0.732,0.747,(3.7876)+(0.0419)Ser+(-0.0752)Asn+(-0.1402)His+(0.0040)Thr+(0.0194)Orn+(0.0173)Leu;0.803,0.831,0.799,0.786,0.787,0.847,0.821,0.811,(3.8176)+(0.0011)Gly+(0.0109)Gln+(-0.1361)His+(-0.0198)Val+(-0.1576)Met+(0.0525)Leu;0.803,0.839,0.772,0.767,0.767,0.783,0.785,0.776,(3.4032)+(0.0404)Ser+(-0.0089)Gly+(0.0063)Pro+(-0.0247)Tyr+(0.0088)Leu+(-0.1548)Trp;0.803,0.831,0.751,0.733,0.738,0.813,0.779,0.766,(6.1443)+(-0.1010)His+(-0.0151)Arg+(-0.0327)Tyr+(0.0324)Orn+(0.1183)Ile+(-0.0517)Leu;0.803,0.828,0.752,0.722,0.744,0.814,0.805,0.771,(3.0272)+(0.0010)Gly+(0.0077)Gln+(-0.1634)His+(-0.0033)Pro+(0.0091)O

rn+(0.0452)Ile;0.803,0.842,0.719,0.695,0.730,0.792,0.709,0.732,(-4.4811)+(0.0511)Ser+(0.0142)Thr+(-0.4425)Met+(-0.0194)Lys+(0.0636)Ile+(0.0990)Phe;0.803,0.834,0.739,0.720,0.764,0.811,0.684,0.745,(0.0773)+(0.0470)Ser+(-0.0617)Asn+(0.0138)Thr+(-0.0768)Cit+(-0.3194)Met+(0.0668)Ile;0.803,0.831,0.741,0.702,0.743,0.792,0.803,0.760,(4.7194)+(-0.0563)Asn+(-0.1495)His+(0.0193)Thr+(-0.0043)Pro+(0.0329)Ile+(0.0594)Phe;0.803,0.829,0.766,0.760,0.764,0.850,0.724,0.775,(3.1446)+(0.0292)Ser+(0.0079)Gln+(-0.1502)His+(0.0059)Thr+(-0.0247)Arg+(0.0003)Lys;0.803,0.826,0.756,0.742,0.716,0.841,0.814,0.778,(5.6086)+(-0.1493)Asn+(0.0195)Thr+(-0.0268)Arg+(-0.0639)Val+(0.0330)Orn+(0.1776)Ile;0.803,0.841,0.763,0.738,0.771,0.853,0.751,0.778,(4.1959)+(0.0442)Ser+(-0.0043)Gly+(-0.1196)His+(0.0051)Tyr+(-0.1307)Met+(0.0312)Orn;0.803,0.841,0.830,0.843,0.823,0.800,0.831,0.824,(4.9478)+(-0.0470)Asn+(-0.0039)Ala+(-0.0065)Arg+(-0.0175)Tyr+(0.0981)Phe+(-0.1434)Trp;0.803,0.839,0.753,0.743,0.729,0.844,0.765,0.770,(0.1358)+(0.0436)Ser+(-0.0547)Asn+(-0.2575)Met+(0.0035)Orn+(0.1631)Ile+(-0.0725)Leu;0.803,0.838,0.767,0.748,0.753,0.833,0.796,0.783,(5.7131)+(0.0050)Gly+(-0.0932)His+(-0.0043)Arg+(-0.1581)Met+(0.1340)Ile+(-0.0482)Leu;0.803,0.834,0.828,0.838,0.834,0.850,0.772,0.823,(5.8000)+(0.0045)Gln+(0.0126)Thr+(-0.0040)Ala+(-0.0753)Cit+(0.0017)Tyr+(-0.1551)Trp;0.803,0.827,0.746,0.731,0.739,0.830,0.738,0.760,(2.6192)+(0.0299)Ser+(0.0061)Gln+(-0.1564)His+(-0.0002)Thr+(-0.0131)Tyr+(0.0065)Val;0.803,0.837,0.816,0.822,0.837,0.833,0.744,0.809,(8.3000)+(-0.0729)Asn+(0.0222)Thr+(-0.0666)Cit+(-0.0021)Arg+(0.0023)Lys+(-0.1477)Trp;0.803,0.835,0.798,0.796,0.794,0.849,0.775,0.803,(4.5437)+(-0.0370)Asn+(0.0102)Gln+(-0.1396)His+(0.0230)Thr+(0.0043)Val+(-0.1563)Met;0.803,0.835,0.849,0.858,0.853,0.849,0.816,0.844,(5.8759)+(-0.0832)Asn+(0.0083)Gln+(-0.0719)Cit+(0.0063)Tyr+(0.0034)Lys+(-0.1467)Trp;0.803,0.834,0.818,0.828,0.829,0.835,0.757,0.813,(6.9044)+(-0.0017)

Gly+(0.0261)Thr+(-0.0020)Ala+(0.0187)Tyr+(-0.1820)Met+(-0.1452)Trp;0.803,0.834,0.769,0.757,0.775,0.809,0.762,0.776,(3.6751)+(0.0072)Asn+(0.0069)Gly+(-0.1313)His+(-0.0060)Tyr+(-0.1971)Met+(0.1316)Phe;0.803,0.833,0.753,0.722,0.766,0.842,0.746,0.769,(2.9050)+(0.0331)Ser+(-0.0036)Gly+(0.0056)Gln+(-0.1465)His+(-0.0592)Cit+(0.0354)Orn;0.803,0.833,0.771,0.758,0.777,0.810,0.763,0.777,(3.7975)+(0.0070)Gly+(-0.1297)His+(-0.0010)Arg+(-0.0068)Tyr+(-0.1885)Met+(0.1311)Phe;0.803,0.832,0.730,0.697,0.728,0.835,0.747,0.752,(3.5033)+(0.0367)Ser+(-0.1455)His+(-0.0042)Ala+(-0.0139)Tyr+(0.0225)Orn+(0.0219)Leu;0.803,0.831,0.735,0.717,0.682,0.827,0.825,0.763,(1.5298)+(0.0440)Ser+(-0.0088)Gly+(-0.0288)Arg+(-0.0539)Val+(-0.0150)Lys+(0.1702)Ile;0.803,0.840,0.774,0.748,0.772,0.802,0.824,0.786,(4.3582)+(-0.1245)His+(-0.0223)Tyr+(-0.2031)Met+(0.0040)Lys+(0.0470)Ile+(0.1001)Phe;0.803,0.837,0.804,0.789,0.810,0.818,0.820,0.809,(8.2569)+(-0.0913)His+(-0.0013)Ala+(-0.0654)Met+(0.0104)Lys+(0.0230)Leu+(-0.1106)Trp;0.803,0.836,0.815,0.836,0.827,0.832,0.725,0.805,(5.3811)+(0.0055)Gln+(0.0265)Thr+(-0.0178)Arg+(0.0004)Val+(-0.1849)Met+(-0.1444)Trp;0.803,0.835,0.798,0.787,0.807,0.813,0.795,0.801,(8.3155)+(-0.0878)His+(-0.0019)Arg+(0.0065)Pro+(0.0058)Tyr+(0.0053)Val+(-0.1090)Trp;0.803,0.830,0.737,0.702,0.743,0.829,0.750,0.756,(3.7668)+(0.0404)Ser+(-0.0046)Gly+(-0.1415)His+(-0.0013)Thr+(0.0016)Val+(0.0235)Orn;0.803,0.824,0.755,0.762,0.683,0.832,0.833,0.778,(4.1327)+(0.0144)Thr+(-0.0086)Ala+(-0.0294)Arg+(-0.0282)Tyr+(-0.0548)Val+(0.1839)Ile;0.803,0.834,0.733,0.713,0.717,0.789,0.780,0.750,(3.9938)+(0.0044)Gly+(-0.1406)His+(-0.0437)Tyr+(-0.0037)Lys+(0.0418)Ile+(0.0818)Phe;0.803,0.842,0.803,0.824,0.804,0.772,0.768,0.792,(4.0786)+(-0.0177)Arg+(-0.0296)Tyr+(-0.0084)Val+(0.0224)Orn+(0.0968)Phe+(-0.1447)Trp;0.803,0.839,0.805,0.826,0.804,0.768,0.777,0.794,(2.6338)+(0.0042)Gln+(-0.0218)Arg+(-0.0333)Tyr+(0.0113)Orn+(0.0877)Phe+(-0.1633)Trp;0.803,0.838,

0.749,0.726,0.761,0.844,0.714,0.761,(3.8040)+(0.0405)Ser+(-0.1283)His+(0.0056)Val+(-0.1390)Met+(0.0266)Orn+(0.0009)Lys;0.803,0.832,0.772,0.770,0.697,0.836,0.884,0.797,(2.0600)+(0.0005)Gln+(-0.0105)Ala+(-0.0281)Arg+(-0.0587)Val+(0.1804)Ile+(0.0540)Phe;0.803,0.832,0.767,0.752,0.733,0.839,0.829,0.788,(3.8738)+(0.0083)Gln+(-0.1183)His+(-0.0249)Arg+(-0.0318)Val+(-0.0003)Lys+(0.1226)Ile;0.803,0.829,0.760,0.750,0.717,0.847,0.814,0.782,(5.3558)+(-0.1585)Asn+(0.0045)Gly+(0.0173)Thr+(-0.0612)Cit+(-0.0556)Val+(0.1706)Ile;0.803,0.829,0.759,0.736,0.742,0.835,0.798,0.778,(2.9891)+(0.0023)Gly+(0.0078)Gln+(-0.1297)His+(-0.0558)Cit+(0.1077)Ile+(-0.0416)Leu;0.803,0.829,0.778,0.777,0.725,0.852,0.835,0.797,(4.5268)+(-0.1674)Asn+(0.0051)Gln+(0.0213)Thr+(-0.0266)Arg+(-0.0607)Val+(0.1753)Ile;0.803,0.837,0.799,0.793,0.822,0.813,0.756,0.796,(6.8031)+(0.0041)Gly+(-0.0728)Cit+(0.0092)Pro+(-0.1071)Met+(0.0168)Leu+(-0.1484)Trp;0.803,0.833,0.778,0.771,0.722,0.828,0.876,0.799,(4.0121)+(-0.1305)Asn+(-0.0137)Arg+(-0.0014)Pro+(-0.0616)Val+(0.1687)Ile+(0.0668)Phe;0.803,0.833,0.755,0.721,0.741,0.837,0.816,0.779,(5.3368)+(0.0036)Gly+(-0.1281)His+(-0.0067)Ala+(0.0226)Orn+(-0.0043)Lys+(0.0572)Ile;0.803,0.831,0.810,0.797,0.817,0.829,0.814,0.814,(8.5372)+(0.0008)Asn+(-0.0893)His+(-0.0022)Ala+(0.0169)Tyr+(0.0081)Val+(-0.1097)Trp;0.803,0.831,0.798,0.795,0.823,0.818,0.741,0.794,(6.9580)+(0.0135)Thr+(-0.0792)Cit+(0.0062)Pro+(0.0025)Val+(-0.0039)Lys+(-0.1620)Trp;0.803,0.838,0.745,0.708,0.758,0.831,0.755,0.763,(3.1675)+(0.0518)Ser+(-0.0027)Gly+(-0.1330)His+(0.0119)Tyr+(-0.1799)Met+(0.0292)Leu;0.803,0.836,0.803,0.799,0.777,0.822,0.856,0.813,(4.0765)+(-0.0008)Gly+(0.0034)Gln+(-0.0083)Ala+(-0.0086)Tyr+(0.0664)Ile+(-0.1604)Trp;0.803,0.835,0.805,0.798,0.784,0.831,0.848,0.815,(5.7051)+(-0.0412)Asn+(0.0018)Gly+(-0.0072)Ala+(-0.0005)Tyr+(0.0665)Ile+(-0.1475)Trp;0.803,0.831,0.811,0.827,0.819,0.821,0.743,0.803,(6.9230)+(-0.0023)Gly+(0.0256)Thr+(-0.0015)Al

a+(-0.1680)Met+(0.0040)Lys+(-0.1434)Trp;0.803,0.827,0.761,0.756,0.695
,0.841,0.853,0.786,(3.9474)+(
0.0136)Thr+(-0.0093)Ala+(-0.0260)Arg+(-0.0555)Val+(-0.0086)Lys+(0.187
0)Ile;0.803,0.836,0.791,0.788,0.792,0.812,0.779,0.793,(3.7407)+(0.040
1)Ser+(-0.0088)Gly+(0.0003)Thr+(0.0183)Orn+(-0.0085)Lys+(-0.1461)Trp;
0.803,0.835,0.781,0.775,0.780,0.792,0.790,0.784,(3.1634)+(0.0404)Ser+
(-0.0083)Gly+(0.0001)Gln+(-0.0038)Thr+(0.0058)Pro+(-0.1550)Trp;0.803,
0.837,0.766,0.763,0.758,0.802,0.761,0.771,(3.2432)+(0.0272)Ser+(0.001
0)Thr+(-0.0104)Tyr+(-0.0222)Val+(0.0465)Leu+(-0.1559)Trp;0.803,0.834,
0.765,0.774,0.762,0.796,0.724,0.764,(2.9606)+(0.0290)Ser+(-0.0055)Thr
+(0.0060)Pro+(-0.0173)Tyr+(0.0129)Orn+(-0.1477)Trp;0.803,0.835,0.810,
0.801,0.815,0.816,0.817,0.812,(7.8824)+(-0.0498)Asn+(-0.0611)Cit+(0.0
084)Pro+(-0.0213)Val+(0.0458)Leu+(-0.1432)Trp;0.803,0.832,0.758,0.734
,0.739,0.835,0.805,0.778,(6.2286)+(-0.1167)His+(0.0187)Thr+(-0.0070)A
la+(-0.0486)Cit+(-0.0251)Tyr+(0.0658)Ile;0.803,0.830,0.753,0.738,0.73
1,0.813,0.794,0.769,(5.8060)+(-0.0256)Asn+(0.0033)Gly+(-0.1011)His+(-
0.0234)Tyr+(0.1155)Ile+(-0.0447)Leu;0.803,0.829,0.722,0.714,0.714,0.7
62,0.733,0.731,(4.0448)+(0.0017)Gly+(-0.1505)His+(0.0196)Thr+(0.0027)
Pro+(-0.0564)Tyr+(0.1033)Phe;0.803,0.834,0.836,0.850,0.841,0.844,0.78
5,0.830,(5.1972)+(0.0009)Gly+(0.0068)Gln+(-0.0645)Cit+(-0.1091)Met+(0
.0048)Lys+(-0.1422)Trp;0.803,0.834,0.805,0.795,0.796,0.823,0.834,0.81
2,(5.8318)+(-0.0056)Ala+(-0.0045)Arg+(-0.1293)Met+(0.0138)Orn+(0.0699
)Ile+(-0.1394)Trp;0.803,0.832,0.815,0.825,0.832,0.838,0.736,0.807,(7.
0917)+(0.0287)Thr+(-0.0020)Ala+(-0.0134)Arg+(0.0219)Tyr+(-0.1792)Met+
(-0.1439)Trp;0.803,0.827,0.748,0.726,0.750,0.834,0.735,0.762,(2.4052)
+(0.0315)Ser+(0.0068)Gln+(-0.1550)His+(-0.0006)Thr+(-0.0402)Cit+(0.00
66)Val;0.803,0.837,0.787,0.793,0.805,0.794,0.733,0.781,(5.8910)+(0.02
42)Thr+(0.0067)Pro+(-0.2206)Met+(0.0013)Lys+(0.0131)Leu+(-0.1502)Trp;

0.803,0.836,0.805,0.798,0.784,0.830,0.849,0.815,(5.7455)+(-0.0385)Asn+(0.0018)Gly+(-0.0072)Ala+(-0.0016)Lys+(0.0675)Ile+(-0.1465)Trp;0.803,0.835,0.841,0.856,0.842,0.848,0.794,0.835,(5.3327)+(0.0069)Gln+(-0.0012)Ala+(-0.0632)Cit+(-0.0988)Met+(0.0048)Lys+(-0.1403)Trp;0.803,0.835,0.794,0.804,0.796,0.840,0.732,0.793,(4.0344)+(0.0299)Ser+(-0.0040)Ala+(-0.0197)Arg+(0.0245)Orn+(-0.0010)Lys+(-0.1397)Trp;0.803,0.835,0.805,0.818,0.809,0.816,0.754,0.799,(7.0507)+(-0.0928)Asn+(0.0146)Thr+(0.0050)Pro+(-0.0070)Val+(0.0204)Orn+(-0.1316)Trp;0.803,0.833,0.825,0.840,0.810,0.840,0.806,0.824,(5.8240)+(-0.1005)Asn+(0.0054)Gln+(0.0154)Thr+(-0.0059)Ala+(0.0083)Pro+(-0.1411)Trp;0.803,0.832,0.815,0.824,0.828,0.836,0.749,0.809,(6.4331)+(0.0234)Thr+(-0.0022)Ala+(0.0206)Tyr+(-0.1925)Met+(0.0040)Lys+(-0.1478)Trp;0.803,0.836,0.741,0.730,0.726,0.791,0.762,0.752,(4.3286)+(-0.1463)His+(0.0190)Thr+(-0.0032)Ala+(-0.0527)Tyr+(0.0221)Orn+(0.0991)Phe;0.803,0.829,0.779,0.776,0.771,0.860,0.745,0.788,(3.2522)+(0.0307)Ser+(0.0082)Gln+(-0.1384)His+(-0.0017)Ala+(-0.0229)Cit+(-0.0177)Arg;0.803,0.829,0.752,0.721,0.743,0.815,0.806,0.771,(3.1436)+(0.0075)Gln+(-0.1656)His+(0.0047)Thr+(-0.0038)Pro+(0.0079)Orn+(0.0450)Ile;0.803,0.823,0.731,0.700,0.708,0.819,0.797,0.756,(5.0200)+(0.0023)Gly+(-0.1020)His+(0.0093)Thr+(-0.0421)Cit+(-0.0330)Val+(0.1257)Ile;0.803,0.834,0.780,0.770,0.765,0.820,0.812,0.792,(1.1163)+(-0.0004)Asn+(-0.0727)Cit+(-0.2960)Met+(0.1806)Ile+(-0.0976)Leu+(0.1138)Phe;0.803,0.832,0.735,0.718,0.733,0.824,0.723,0.750,(2.9057)+(0.0284)Ser+(0.0046)Gln+(-0.1478)His+(0.0064)Pro+(-0.0220)Tyr+(0.0200)Orn;0.803,0.832,0.734,0.685,0.746,0.805,0.783,0.755,(4.7271)+(-0.1431)His+(0.0194)Thr+(-0.0475)Cit+(-0.0150)Lys+(0.0397)Ile+(0.0662)Phe;0.803,0.829,0.741,0.707,0.745,0.841,0.754,0.762,(3.8991)+(0.0436)Ser+(-0.1319)His+(-0.0044)Ala+(-0.0363)Cit+(-0.0077)Lys+(0.0295)Leu;0.803,0.827,0.785,0.784,0.716,0.858,0.879,0.809,(5.8626)+(-0.0846)Asn+(-0.0068)A

la+(-0.0081)Arg+(-0.0125)Tyr+(-0.0535)Val+(0.1804)Ile;0.803,0.839,0.830,0.835,0.815,0.833,0.844,0.832,(5.5872)+(-0.1021)Asn+(0.0062)Gln+(0.0058)Pro+(-0.0281)Val+(0.0501)Leu+(-0.1363)Trp;0.803,0.835,0.802,0.796,0.806,0.815,0.799,0.804,(8.5595)+(-0.0102)Asn+(-0.0795)His+(-0.0018)Arg+(0.0079)Pro+(0.0089)Tyr+(-0.1033)Trp;0.803,0.835,0.772,0.769,0.699,0.838,0.886,0.798,(2.5334)+(-0.0100)Ala+(-0.0233)Arg+(-0.0571)Val+(-0.0071)Lys+(0.1814)Ile+(0.0570)Phe;0.803,0.834,0.802,0.806,0.820,0.812,0.747,0.796,(6.8365)+(0.0032)Gly+(-0.0653)Cit+(0.0112)Pro+(-0.1211)Met+(0.0081)Lys+(-0.1414)Trp;0.803,0.834,0.776,0.758,0.773,0.819,0.796,0.787,(2.0048)+(0.0110)Gln+(-0.1725)His+(-0.0240)Arg+(-0.0002)Pro+(0.0136)Orn+(0.0723)Phe;0.803,0.838,0.830,0.825,0.838,0.846,0.813,0.830,(7.8823)+(-0.0055)Ala+(-0.0651)Cit+(0.0140)Pro+(0.0206)Tyr+(-0.0831)Met+(-0.1353)Trp;0.803,0.837,0.771,0.780,0.782,0.806,0.699,0.767,(3.2944)+(0.0302)Ser+(0.0004)Gln+(-0.0248)Arg+(0.0055)Pro+(0.0149)Orn+(-0.1533)Trp;0.803,0.836,0.800,0.779,0.805,0.824,0.824,0.808,(8.1046)+(-0.0977)His+(-0.0029)Ala+(0.0128)Tyr+(0.0057)Lys+(0.0231)Leu+(-0.1169)Trp;0.803,0.834,0.765,0.761,0.691,0.832,0.880,0.791,(2.3279)+(-0.0115)Ala+(-0.0286)Arg+(0.0059)Pro+(-0.0589)Val+(0.1772)Ile+(0.0520)Phe;0.803,0.831,0.837,0.845,0.845,0.842,0.796,0.832,(5.1793)+(0.0071)Gln+(-0.0717)Cit+(0.0018)Arg+(0.0055)Val+(-0.1020)Met+(-0.1484)Trp;0.803,0.832,0.803,0.793,0.813,0.812,0.806,0.806,(8.2732)+(-0.0160)Asn+(-0.0916)His+(0.0081)Tyr+(0.0051)Val+(0.0096)Lys+(-0.1125)Trp;0.803,0.836,0.737,0.723,0.736,0.783,0.742,0.746,(-4.4107)+(0.0574)Ser+(-0.0812)Asn+(0.0011)Gln+(-0.3775)Met+(0.0488)Ile+(0.0896)Phe;0.803,0.839,0.746,0.719,0.758,0.838,0.723,0.760,(3.5687)+(0.0461)Ser+(-0.1226)His+(0.0108)Pro+(0.0068)Tyr+(0.0051)Val+(-0.1773)Met;0.803,0.833,0.747,0.726,0.729,0.809,0.795,0.765,(5.5832)+(-0.1099)His+(-0.0344)Tyr+(0.0269)Orn+(0.0007)Lys+(0.1103)Ile+(-0.0459)Leu;0.803,0.833,0.797,0.788,0.825

,0.815,0.749,0.794,(6.9561)+(0.0177)Thr+(-0.0807)Cit+(-0.0009)Arg+(-0.0081)Lys+(0.0193)Leu+(-0.1698)Trp;0.803,0.833,0.792,0.774,0.792,0.818,0.822,0.802,(8.3801)+(-0.0089)Asn+(-0.0890)His+(0.0031)Arg+(-0.0170)Val+(0.0510)Leu+(-0.1079)Trp;0.803,0.831,0.729,0.718,0.728,0.769,0.731,0.736,(4.5796)+(-0.1424)His+(0.0232)Thr+(-0.0399)Cit+(0.0032)Pro+(-0.0606)Tyr+(0.1078)Phe;0.803,0.827,0.763,0.746,0.724,0.828,0.841,0.785,(6.5406)+(-0.0474)Asn+(-0.0738)His+(-0.0086)Arg+(-0.0385)Val+(0.1472)Ile+(-0.0068)Leu;0.803,0.842,0.816,0.833,0.803,0.787,0.819,0.810,(3.8296)+(-0.0042)Ala+(-0.0235)Tyr+(-0.0041)Val+(0.0002)Lys+(0.1004)Phe+(-0.1497)Trp;0.803,0.839,0.750,0.732,0.773,0.845,0.681,0.758,(4.4012)+(0.0395)Ser+(-0.1236)His+(0.0197)Thr+(-0.0382)Cit+(0.0094)Val+(-0.1831)Met;0.803,0.838,0.748,0.726,0.755,0.841,0.723,0.761,(3.6152)+(0.0441)Ser+(-0.1188)His+(0.0122)Pro+(0.0076)Tyr+(-0.1930)Met+(0.0059)Lys;0.803,0.836,0.748,0.727,0.764,0.840,0.702,0.758,(4.8876)+(0.0386)Ser+(-0.0626)Asn+(-0.1242)His+(0.0073)Thr+(-0.0165)Arg+(0.0296)Orn;0.803,0.829,0.793,0.778,0.784,0.835,0.822,0.805,(3.8046)+(0.0110)Gln+(-0.1316)His+(0.0074)Pro+(-0.0220)Val+(-0.1823)Met+(0.0519)Leu;0.803,0.827,0.734,0.694,0.745,0.824,0.752,0.754,(3.7533)+(0.0488)Ser+(-0.0040)Gly+(-0.1418)His+(-0.0095)Arg+(-0.0069)Lys+(0.0227)Leu;0.803,0.842,0.786,0.801,0.783,0.753,0.777,0.778,(3.5795)+(0.0044)Pro+(-0.0379)Tyr+(0.0097)Orn+(-0.0047)Lys+(0.0859)Phe+(-0.1568)Trp;0.803,0.841,0.749,0.754,0.734,0.801,0.727,0.754,(-3.2544)+(0.0499)Ser+(-0.0076)Ala+(-0.0187)Arg+(0.0156)Pro+(-0.3615)Met+(0.1135)Phe;0.803,0.839,0.780,0.773,0.770,0.800,0.806,0.787,(3.6686)+(0.0391)Ser+(-0.0081)Gly+(-0.0134)Tyr+(-0.0209)Val+(0.0443)Leu+(-0.1521)Trp;0.803,0.836,0.787,0.781,0.766,0.814,0.826,0.797,(4.8819)+(0.0096)Thr+(-0.0084)Ala+(-0.0125)Tyr+(0.0031)Orn+(0.0658)Ile+(-0.1601)Trp;0.803,0.836,0.758,0.732,0.771,0.845,0.738,0.771,(4.8051)+(0.0458)Ser+(-0.0554)Asn+(-0.0040)Gly+(-0.1208)Hi

s+(-0.0139)Arg+(0.0319)Orn;0.803,0.831,0.763,0.752,0.712,0.830,0.852,0.786,(3.3881)+(-0.1733)Asn+(0.0034)Gly+(-0.0623)Val+(0.0232)Orn+(0.1626)Ile+(0.0597)Phe;0.803,0.838,0.768,0.770,0.686,0.830,0.887,0.793,(2.3454)+(-0.0092)Ala+(-0.0395)Tyr+(-0.0513)Val+(-0.0111)Lys+(0.1699)Ile+(0.0666)Phe;0.803,0.835,0.749,0.729,0.763,0.839,0.709,0.760,(3.9520)+(0.0444)Ser+(-0.1103)His+(-0.0311)Cit+(0.0132)Pro+(-0.1817)Met+(0.0060)Lys;0.803,0.839,0.795,0.790,0.793,0.850,0.772,0.801,(4.7260)+(-0.0432)Asn+(0.0094)Gln+(-0.1351)His+(0.0205)Thr+(-0.1420)Met+(0.0197)Orn;0.803,0.838,0.748,0.730,0.765,0.840,0.699,0.758,(4.0210)+(0.0395)Ser+(-0.1306)His+(0.0167)Thr+(0.0112)Tyr+(0.0080)Val+(-0.1983)Met;0.803,0.835,0.827,0.839,0.836,0.847,0.761,0.821,(5.9192)+(0.0049)Gln+(0.0149)Thr+(-0.0037)Ala+(-0.0696)Cit+(-0.0092)Arg+(-0.1544)Trp;0.803,0.834,0.803,0.818,0.818,0.831,0.712,0.794,(6.8725)+(0.0256)Thr+(-0.0022)Ala+(-0.0161)Arg+(-0.1503)Met+(0.0228)Orn+(-0.1376)Trp;0.803,0.829,0.756,0.749,0.751,0.839,0.725,0.766,(2.8791)+(0.0326)Ser+(0.0076)Gln+(-0.1446)His+(-0.0235)Arg+(0.0079)Pro+(-0.0132)Tyr;0.803,0.827,0.752,0.736,0.751,0.840,0.732,0.765,(2.9373)+(0.0318)Ser+(0.0065)Gln+(-0.1416)His+(-0.0374)Cit+(0.0062)Pro+(-0.0054)Lys;0.803,0.841,0.749,0.755,0.733,0.777,0.748,0.753,(-3.0129)+(0.0557)Ser+(-0.0065)Gly+(0.0145)Pro+(-0.0168)Val+(-0.4012)Met+(0.1294)Phe;0.803,0.836,0.847,0.859,0.849,0.847,0.812,0.842,(5.9016)+(-0.0813)Asn+(0.0084)Gln+(-0.0701)Cit+(-0.0005)Arg+(0.0039)Lys+(-0.1442)Trp;0.803,0.834,0.800,0.801,0.808,0.833,0.758,0.800,(8.1684)+(0.0038)Gly+(-0.0789)His+(-0.0009)Ala+(-0.0349)Cit+(0.0110)Lys+(-0.1055)Trp;0.803,0.832,0.841,0.850,0.845,0.849,0.804,0.837,(5.2825)+(0.0072)Gln+(-0.0024)Ala+(-0.0717)Cit+(0.0068)Val+(-0.0831)Met+(-0.1468)Trp;0.803,0.832,0.804,0.807,0.823,0.818,0.749,0.799,(7.6118)+(-0.0476)Asn+(0.0042)Gly+(-0.0742)Cit+(0.0089)Pro+(0.0018)Val+(-0.1430)Trp;0.803,0.831,0.812,0.806,0.832,0.807,0.791,0.809,(7.6

877)+(-0.0187)Asn+(-0.0643)Cit+(0.0088)Pro+(-0.0806)Met+(0.0148)Leu+(-0.1454)Trp;0.803,0.830,0.801,0.818,0.821,0.814,0.707,0.790,(6.9078)+(0.0274)Thr+(-0.0169)Arg+(-0.0006)Val+(-0.1762)Met+(0.0076)Lys+(-0.1436)Trp;0.803,0.830,0.779,0.807,0.719,0.792,0.820,0.784,(1.0416)+(-0.1158)Asn+(0.0045)Gln+(-0.0718)Tyr+(0.1542)Ile+(-0.0951)Leu+(0.0958)Phe;0.803,0.837,0.767,0.777,0.776,0.807,0.691,0.763,(3.6346)+(0.0306)Ser+(-0.0233)Arg+(0.0067)Pro+(-0.0144)Tyr+(0.0172)Orn+(-0.1468)Trp;0.803,0.836,0.786,0.787,0.789,0.805,0.763,0.786,(4.1123)+(0.0427)Ser+(-0.0082)Gly+(-0.0205)Arg+(0.0079)Pro+(-0.0018)Val+(-0.1494)Trp;0.803,0.836,0.794,0.789,0.800,0.806,0.788,0.796,(8.1197)+(-0.0884)His+(-0.0092)Arg+(0.0079)Pro+(0.0019)Tyr+(
0.0114)Lys+(-0.1102)Trp;0.803,0.835,0.818,0.809,0.826,0.831,0.813,0.820,(8.2645)+(-0.0831)His+(-0.0006)Ala+(0.0265)Tyr+(-0.0938)Met+(0.0141)Lys+(-0.1096)Trp;0.803,0.834,0.793,0.781,0.772,0.841,0.831,0.806,(2.3201)+(0.0098)Gln+(-0.1560)His+(-0.0050)Ala+(-0.0456)Cit+(-0.0002)Val+(0.0862)Phe;0.803,0.833,0.735,0.729,0.738,0.775,0.711,0.739,(5.0868)+(-0.1441)His+(0.0293)Thr+(-0.0279)Cit+(-0.0171)Arg+(-0.0602)Tyr+(0.1155)Phe;0.803,0.831,0.764,0.748,0.755,0.818,0.786,0.777,(3.6475)+(0.0099)Gln+(-0.1516)His+(-0.0207)Arg+(-0.0275)Tyr+(0.0174)Orn+(0.0467)Ile;0.803,0.828,0.764,0.744,0.728,0.831,0.842,0.786,(6.6663)+(-0.0534)Asn+(-0.0698)His+(-0.0301)Cit+(-0.0022)Arg+(-0.0400)Val+(0.1429)Ile;0.803,0.827,0.763,0.748,0.724,0.826,0.839,0.784,(6.5324)+(-0.0580)Asn+(-0.0766)His+(-0.0106)Arg+(-0.0417)Val+(0.0060)Lys+(0.1412)Ile;0.803,0.840,0.818,0.825,0.817,0.798,0.817,0.814,(4.1768)+(-0.0060)Ala+(-0.0177)Arg+(0.0165)Orn+(0.0017)Leu+(0.0802)Phe+(-0.1571)Trp;0.803,0.835,0.828,0.842,0.825,0.817,0.805,0.822,(4.9550)+(-0.0595)Asn+(0.0069)Gln+(0.0085)Pro+(-0.1429)Met+(0.0074)Lys+(-0.1390)Trp;0.803,0.831,0.736,0.701,0.766,0.844,0.689,0.750,(4.4866)+(0.0347)Ser+(-0.1240)His+(0.00

18)Thr+(-0.0695)Cit+(0.0491)Orn+(-0.0087)Lys;0.803,0.830,0.724,0.690,0.736,0.826,0.715,0.742,(3.6950)+(0.0363)Ser+(-0.1376)His+(-0.0021)Thr+(0.0056)Pro+(0.0246)Orn+(-0.0057)Lys;0.803,0.830,0.771,0.758,0.755,0.822,0.803,0.784,(3.5234)+(0.0107)Gln+(-0.1511)His+(-0.0195)Arg+(0.0002)Pro+(-0.0238)Tyr+(0.0505)Ile;0.803,0.829,0.767,0.742,0.754,0.838,0.811,0.786,(5.4909)+(0.0250)Asn+(0.0052)Gly+(-0.1147)His+(-0.0049)Ala+(-0.1631)Met+(0.0768)Ile;0.803,0.829,0.795,0.791,0.741,0.863,0.867,0.816,(4.1987)+(-0.1460)Asn+(0.0069)Gln+(-0.0549)Cit+(-0.0079)Arg+(-0.0534)Val+(0.1639)Ile;0.803,0.836,0.784,0.784,0.788,0.804,0.764,0.785,(4.0527)+(0.0436)Ser+(-0.0083)Gly+(-0.0191)Arg+(0.0075)Pro+(-0.0024)Lys+(-0.1496)Trp;0.803,0.835,0.799,0.815,0.810,0.819,0.722,0.791,(6.2463)+(0.0208)Thr+(-0.0020)Val+(-0.1766)Met+(0.0178)Orn+(0.0028)Lys+(-0.1411)Trp;0.803,0.835,0.781,0.766,0.748,0.868,0.827,0.802,(0.4942)+(0.0396)Ser+(-0.1406)Asn+(0.0037)Gln+(-0.0117)Ala+(-0.0945)Cit+(0.0664)Ile;0.803,0.830,0.807,0.822,0.820,0.812,0.738,0.798,(6.8354)+(-0.0024)Gly+(0.0254)Thr+(-0.0002)Val+(-0.1780)Met+(0.0040)Lys+(-0.1451)Trp;0.803,0.837,0.796,0.798,0.802,0.817,0.761,0.794,(4.2061)+(0.0401)Ser+(-0.0083)Gly+(-0.0218)Arg+(-0.0020)Val+(0.0224)Orn+(-0.1465)Trp;0.803,0.835,0.791,0.790,0.790,0.802,0.786,0.792,(3.4016)+(0.0382)Ser+(-0.0083)Gly+(-0.0033)Thr+(-0.0017)Val+(0.0157)Orn+(-0.1504)Trp;0.803,0.835,0.724,0.710,0.718,0.766,0.740,0.733,(4.1168)+(-0.1509)His+(0.0187)Thr+(0.0018)Pro+(-0.0603)Tyr+(0.0206)Orn+(0.0970)Phe;0.803,0.834,0.757,0.721,0.758,0.837,0.793,0.777,(5.7964)+(-0.0310)Asn+(-0.0953)His+(-0.0684)Cit+(0.0426)Orn+(0.1112)Ile+(-0.0529)Leu;0.803,0.826,0.756,0.725,0.751,0.821,0.804,0.775,(3.1312)+(0.0087)Gln+(-0.1568)His+(0.0062)Thr+(-0.0469)Cit+(-0.0037)Pro+(0.0511)Ile;0.803,0.841,0.784,0.774,0.791,0.767,0.809,0.785,(3.5784)+(0.0013)Gly+(-0.0162)Arg+(-0.0069)Lys+(0.0468)Ile+(0.0603)Phe+(-0.1756)Trp;0.803,0.834,0.775,0.765,0.778,0.81

4,0.766,0.781,(3.8067)+(0.0069)Gly+(-0.1262)His+(-0.0046)Tyr+(-0.0035)Val+(-0.1898)Met+(0.1360)Phe;0.803,0.833,0.741,0.713,0.719,0.817,0.808,0.764,(5.6584)+(-0.0955)His+(-0.0200)Arg+(-0.0398)Val+(0.0342)Orn+(-0.0006)Lys+(0.1343)Ile;0.803,0.830,0.731,0.697,0.745,0.822,0.726,0.748,(3.8607)+(0.0470)Ser+(-0.0579)Asn+(-0.1339)His+(-0.0115)Arg+(0.0055)Pro+(0.0170)Leu;0.803,0.829,0.766,0.763,0.763,0.848,0.720,0.774,(3.3304)+(0.0285)Ser+(0.0078)Gln+(-0.1474)His+(0.0074)Thr+(-0.0247)Arg+(-0.0069)Tyr;0.803,0.840,0.807,0.784,0.823,0.822,0.825,0.814,(8.0578)+(-0.0925)His+(0.0222)Tyr+(-0.1058)Met+(0.0102)Lys+(0.0213)Leu+(-0.1172)Trp;0.803,0.835,0.810,0.813,0.795,0.810,0.830,0.812,(4.4740)+(-0.0801)Asn+(0.0057)Gln+(-0.0001)Pro+(-0.0157)Tyr+(0.0503)Ile+(-0.1543)Trp;0.803,0.834,0.806,0.806,0.829,0.814,0.756,0.801,(5.2437)+(0.0044)Gln+(0.0120)Thr+(-0.0788)Cit+(-0.0102)Arg+(0.0140)Leu+(-0.1758)Trp;0.803,0.834,0.784,0.764,0.782,0.824,0.816,0.796,(4.3883)+(-0.1177)His+(-0.0046)Ala+(0.0083)Pro+(-0.1800)Met+(0.0224)Orn+(0.1039)Phe;0.803,0.833,0.737,0.722,0.737,0.830,0.709,0.750,(4.7194)+(0.0400)Ser+(-0.0701)Asn+(-0.1185)His+(0.0072)Thr+(0.0086)Pro+(-0.0163)Tyr;0.803,0.832,0.722,0.681,0.741,0.831,0.713,0.741,(3.5540)+(0.0414)Ser+(-0.1455)His+(-0.0134)Arg+(0.0237)Orn+(-0.0075)Lys+(0.0195)Leu;0.803,0.831,0.748,0.734,0.743,0.833,0.732,0.760,(3.0490)+(0.0276)Ser+(0.0051)Gln+(-0.1476)His+(-0.0017)Thr+(-0.0131)Tyr+(0.0230)Orn;0.803,0.834,0.798,0.810,0.798,0.843,0.738,0.797,(3.7075)+(0.0280)Ser+(0.0014)Gln+(-0.0042)Ala+(-0.0214)Arg+(0.0231)Orn+(-0.1425)Trp;0.803,0.829,0.805,0.821,0.821,0.821,0.715,0.794,(6.9643)+(0.0275)Thr+(-0.0014)Ala+(-0.0165)Arg+(-0.1675)Met+(0.0074)Lys+(-0.1426)Trp;0.803,0.828,0.764,0.758,0.747,0.848,0.754,0.777,(3.1959)+(0.0278)Ser+(0.0060)Gln+(-0.1442)His+(0.0015)Thr+(-0.0021)Ala+(-0.0028)Tyr;0.803,0.836,0.809,0.825,0.826,0.827,0.717,0.799,(7.7257)+(-0.0399)Asn+(0.0296)Thr+(-0.0108)Arg+(0.0000)Val+(-0.132

0)Met+(-0.1369)Trp;0.803,0.836,0.792,0.793,0.790,0.816,0.774,0.793,(4.0199)+(0.0402)Ser+(-0.0091)Gly+(-0.0148)Tyr+(0.0214)Orn+(-0.0071)Lys+(-0.1405)Trp;0.803,0.833,0.795,0.789,0.803,0.824,0.771,0.797,(8.1825)+(-0.0049)Asn+(0.0036)Gly+(-0.0924)His+(0.0004)Arg+(0.0087)Val+(-0.1044)Trp;0.803,0.836,0.721,0.698,0.721,0.771,0.746,0.734,(-5.0003)+(0.0578)Ser+(-0.0061)Gly+(0.0112)Thr+(-0.4761)Met+(0.0525)Ile+(0.0862)Phe;0.803,0.833,0.733,0.716,0.720,0.787,0.768,0.748,(4.1075)+(0.0050)Gly+(-0.1409)His+(-0.0102)Arg+(-0.0443)Tyr+(0.0403)Ile+(0.0842)Phe;0.803,0.837,0.753,0.720,0.777,0.847,0.722,0.766,(4.7568)+(0.0426)Ser+(-0.0716)Asn+(-0.0018)Gly+(-0.1128)His+(-0.0639)Cit+(0.0466)Orn;0.803,0.835,0.754,0.777,0.770,0.800,0.627,0.743,(-2.5068)+(0.0403)Ser+(0.0250)Thr+(-0.0261)Arg+(-0.0152)Val+(-0.4017)Met+(0.1442)Phe;0.803,0.834,0.803,0.798,0.818,0.827,0.768,0.803,(6.5828)+(0.0014)Gly+(0.0162)Thr+(-0.0057)Ala+(-0.0805)Cit+(0.0221)Leu+(-0.1664)Trp;0.803,0.828,0.739,0.708,0.742,0.818,0.760,0.757,(4.1452)+(0.0496)Ser+(-0.0556)Asn+(-0.0038)Gly+(-0.1321)His+(-0.0135)Tyr+(0.0217)Leu;0.803,0.828,0.739,0.705,0.749,0.826,0.747,0.756,(4.0927)+(0.0488)Ser+(-0.0604)Asn+(-0.0022)Gly+(-0.1297)His+(-0.0282)Cit+(0.0207)Leu;0.803,0.833,0.811,0.810,0.787,0.826,0.850,0.818,(4.0800)+(-0.0001)Gly+(0.0046)Gln+(-0.0082)Ala+(-0.0169)Arg+(0.0678)Ile+(-0.1602)Trp;0.803,0.833,0.748,0.742,0.732,0.792,0.761,0.757,(4.7739)+(-0.1427)His+(0.0246)Thr+(-0.0028)Ala+(-0.0493)Tyr+(-0.0059)Lys+(0.1097)Phe;0.803,0.831,0.724,0.689,0.732,0.831,0.725,0.744,(3.6102)+(0.0377)Ser+(-0.1397)His+(-0.0169)Arg+(-0.0206)Val+(0.0275)Orn+(0.0454)Leu;0.803,0.843,0.825,0.835,0.836,0.774,0.811,0.814,(4.8660)+(-0.0629)Asn+(-0.0115)Arg+(0.0046)Lys+(-0.0041)Leu+(0.0826)Phe+(-0.1551)Trp;0.803,0.840,0.808,0.803,0.782,0.827,0.861,0.818,(4.2043)+(0.0039)Gln+(-0.0082)Ala+(-0.0043)Tyr+(-0.0077)Lys+(0.0711)Ile+(-0.1554)Trp;0.803,0.837,0.781,0.780,0.774,0.796,0.786,0.784,(5.9520)

+(-0.0765)Asn+(0.0157)Thr+(-0.0237)Tyr+(0.0054)Orn+(0.0492)Ile+(-0.1531)Trp;0.803,0.834,0.740,0.711,0.766,0.844,0.688,0.752,(4.6640)+(0.0344)Ser+(-0.1188)His+(-0.0703)Cit+(-0.0145)Tyr+(0.0526)Orn+(-0.0066)Lys;0.803,0.833,0.806,0.803,0.822,0.810,0.773,0.802,(4.8943)+(0.0014)Gly+(0.0046)Gln+(-0.0878)Cit+(0.0058)Pro+(0.0120)Leu+(-0.1723)Trp;0.803,0.828,0.781,0.777,0.708,0.857,0.888,0.808,(5.4079)+(-0.0973)Asn+(-0.0088)Ala+(0.0060)Pro+(-0.0488)Val+(0.1847)Ile+(-0.0167)Leu;0.803,0.828,0.780,0.775,0.711,0.856,0.883,0.806,(5.6692)+(-0.0880)Asn+(-0.0087)Ala+(-0.0102)Arg+(0.0072)Pro+(-0.0551)Val+(0.1765)Ile;0.803,0.838,0.775,0.764,0.783,0.746,0.810,0.776,(2.9628)+(-0.0007)Gly+(0.0042)Thr+(-0.0031)Pro+(0.0426)Ile+(0.0450)Phe+(-0.1877)Trp;0.803,0.836,0.781,0.778,0.780,0.799,0.780,0.784,(3.6620)+(0.0417)Ser+(-0.0087)Gly+(0.0062)Pro+(-0.0001)Val+(-0.0070)Lys+(-0.1489)Trp;0.803,0.835,0.818,0.810,0.827,0.828,0.811,0.819,(8.3450)+(-0.0083)Asn+(-0.0822)His+(0.0251)Tyr+(-0.0905)Met+(0.0143)Lys+(-0.1100)Trp;0.803,0.835,0.755,0.769,0.761,0.787,0.681,0.750,(-2.4736)+(0.0495)Ser+(-0.1041)Asn+(0.0148)Thr+(-0.3386)Met+(-0.0074)Leu+(0.1184)Phe;0.803,0.845,0.727,0.703,0.745,0.786,0.708,0.735,(-4.5915)+(0.0542)Ser+(0.0011)Gln+(-0.0893)Cit+(-0.4375)Met+(0.0580)Ile+(0.1015)Phe;0.803,0.839,0.770,0.764,0.764,0.814,0.766,0.777,(3.3279)+(0.0316)Ser+(-0.0036)Tyr+(-0.0223)Val+(-0.0093)Lys+(0.0517)Leu+(-0.1504)Trp;0.802,0.827,0.738,0.724,0.721,0.842,0.739,0.756,(4.0994)+(0.0366)Ser+(-0.1251)His+(0.0014)Thr+(-0.0052)Ala+(0.0121)Pro+(-0.0107)Tyr;0.802,0.841,0.755,0.743,0.721,0.842,0.796,0.775,(-0.2729)+(0.0496)Ser+(-0.0068)Gly+(-0.0024)Tyr+(-0.2986)Met+(0.1708)Ile+(-0.0754)Leu;0.802,0.839,0.753,0.742,0.728,0.844,0.765,0.770,(0.1275)+(0.0441)Ser+(-0.0528)Asn+(0.0015)Pro+(-0.2619)Met+(0.1617)Ile+(-0.0720)Leu;0.802,0.833,0.745,0.723,0.747,0.841,0.727,0.760,(4.3242)+(0.0331)Ser+(-0.1298)His+(-0.0025)Ala+(-0.0074)Tyr+(0.0309)Orn+(-0.0029)Lys

;0.802,0.839,0.788,0.787,0.767,0.816,0.817,0.797,(5.5625)+(0.0113)Thr+(-0.0076)Ala+(0.0094)Pro+(-0.0265)Val+(0.0540)Leu+(-0.1529)Trp;0.802,0.836,0.785,0.781,0.781,0.839,0.762,0.791,(4.1539)+(0.0091)Gln+(-0.1385)His+(0.0206)Thr+(0.0080)Pro+(-0.2064)Met+(0.0035)Lys;0.802,0.835,0.852,0.860,0.856,0.854,0.819,0.847,(5.9724)+(-0.0793)Asn+(0.0084)Gln+(-0.0731)Cit+(0.0014)Arg+(0.0078)Tyr+(-0.1447)Trp;0.802,0.835,0.766,0.734,0.749,0.829,0.837,0.788,(4.7580)+(-0.1339)His+(-0.0072)Ala+(-0.0097)Arg+(0.0201)Orn+(0.0409)Ile+(0.0531)Phe;0.802,0.838,0.766,0.769,0.736,0.791,0.800,0.774,(0.0581)+(0.0023)Gly+(-0.0310)Tyr+(-0.2885)Met+(0.1765)Ile+(-0.0968)Leu+(0.1180)Phe;0.802,0.835,0.802,0.780,0.808,0.828,0.828,0.811,(8.2717)+(-0.0955)His+(-0.0029)Ala+(0.0019)Arg+(0.0157)Tyr+(0.0254)Leu+(-0.1149)Trp;0.802,0.831,0.789,0.780,0.786,0.839,0.786,0.798,(4.4024)+(-0.0701)Asn+(0.0117)Gln+(-0.1550)His+(0.0175)Thr+(-0.0202)Arg+(0.0128)Leu;0.802,0.835,0.756,0.741,0.746,0.814,0.774,0.769,(4.5864)+(-0.0698)Asn+(0.0049)Gly+(-0.1406)His+(0.0195)Thr+(-0.0047)Ala+(0.0924)Phe;0.802,0.834,0.803,0.814,0.817,0.811,0.739,0.796,(6.5333)+(-0.0025)Gly+(0.0230)Thr+(-0.1789)Met+(0.0168)Orn+(0.0020)Lys+(-0.1441)Trp;0.802,0.831,0.747,0.718,0.759,0.837,0.732,0.762,(4.4534)+(0.0428)Ser+(-0.0046)Gly+(-0.1310)His+(-0.0163)Arg+(0.0309)Orn+(-0.0028)Lys;0.802,0.834,0.782,0

.769,0.762,0.842,0.815,0.797,(2.4399)+(0.0086)Gln+(-0.1597)His+(0.0103)Thr+(-0.0055)Ala+(-0.0484)Cit+(0.0851)Phe;0.802,0.832,0.810,0.786,0.820,0.835,0.831,0.818,(8.4443)+(-0.0886)His+(-0.0022)Ala+(0.0265)Tyr+(-0.0668)Met+(0.0262)Leu+(-0.1133)Trp;0.802,0.828,0.764,0.736,0.750,0.837,0.814,0.784,(6.4016)+(-0.0271)Asn+(-0.1279)His+(0.0201)Thr+(-0.0066)Ala+(-0.0111)Arg+(0.0560)Ile;0.802,0.843,0.818,0.822,0.811,0.802,0.834,0.817,(3.8299)+(-0.0064)Ala+(0.0118)Orn+(-0.0048)Lys+(0.0048)Leu+(0.0765)Phe+(-0.1585)Trp;0.802,0.835,0.770,0.740,0.746,0.831,0.854

,0.793,(4.7851)+(-0.1285)His+(-0.0077)Ala+(0.0031)Pro+(-0.0058)Lys+(0.0458)Ile+(0.0587)Phe;0.802,0.828,0.763,0.746,0.723,0.829,0.842,0.785,(6.5838)+(-0.0493)Asn+(-0.0749)His+(-0.0080)Arg+(-0.0002)Pro+(-0.0405)Val+(0.1426)Ile;0.802,0.825,0.752,0.736,0.715,0.822,0.820,0.773,(5.9989)+(-0.0804)His+(-0.0367)Cit+(-0.0219)Tyr+(-0.0299)Val+(0.1459)Ile+(-0.0153)Leu;0.802,0.837,0.762,0.750,0.773,0.851,0.708,0.771,(4.8645)+(0.0385)Ser+(-0.0364)Asn+(-0.1148)His+(0.0178)Thr+(0.0142)Tyr+(-0.1559)Met;0.802,0.836,0.751,0.736,0.759,0.839,0.713,0.762,(4.4218)+(0.0468)Ser+(-0.0240)Asn+(-0.1092)His+(-0.0095)Arg+(0.0126)Pro+(-0.1276)Met;0.802,0.835,0.763,0.750,0.767,0.848,0.728,0.773,(4.8786)+(0.0410)Ser+(-0.0048)Gly+(-0.1163)His+(0.0187)Thr+(0.0003)Ala+(-0.1581)Met;0.802,0.834,0.810,0.820,0.819,0.835,0.748,0.805,(6.3169)+(0.0216)Thr+(-0.0027)Ala+(0.0162)Tyr+(-0.1788)Met+(0.0173)Orn+(-0.1433)Trp;0.802,0.837,0.810,0.828,0.821,0.830,0.724,0.801,(5.2720)+(0.0050)Gln+(0.0242)Thr+(-0.0198)Arg+(-0.1849)Met+(0.0166)Orn+(-0.1439)Trp;0.802,0.834,0.808,0.817,0.825,0.820,0.736,0.800,(6.3317)+(0.0231)Thr+(0.0183)Tyr+(-0.0009)Val+(-0.2030)Met+(0.0043)Lys+(-0.1487)Trp;0.802,0.830,0.768,0.762,0.751,0.851,0.758,0.780,(3.2242)+(0.0288)Ser+(0.0063)Gln+(-0.1429)His+(-0.0020)Ala+(0.0001)Tyr+(-0.0026)Lys;0.802,0.827,0.739,0.705,0.733,0.831,0.777,0.762,(3.7083)+(0.0455)Ser+(-0.0042)Gly+(-0.1411)His+(-0.0037)Ala+(-0.0109)Tyr+(0.0243)Leu;0.802,0.836,0.763,0.773,0.758,0.790,0.727,0.762,(-2.7260)+(0.0468)Ser+(-0.0065)Gly+(0.0183)Thr+(-0.0141)Val+(-0.4079)Met+(0.1316)Phe;0.802,0.841,0.724,0.700,0.726,0.791,0.739,0.739,(-4.3698)+(0.0548)Ser+(-0.0003)Gln+(-0.4002)Met+(-0.0171)Lys+(0.0643)Ile+(0.0955)Phe;0.802,0.837,0.746,0.730,0.760,0.838,0.695,0.756,(4.0863)+(0.0383)Ser+(-0.1302)His+(0.0170)Thr+(0.0082)Val+(-0.1874)Met+(0.0022)Lys;0.802,0.836,0.789,0.775,0.803,0.860,0.747,0.796,(4.6873)+(0.0085)Gln+(-0.1296)His+(0.0187)Thr+(-0.0633)Cit+(-0.1647)Me

t+(0.0376)Orn;0.802,0.836,0.742,0.712,0.754,0.828,0.736,0.758,(3.5215)+(0.0485)Ser+(-0.0195)Asn+(-0.1298)His+(-0.1449)Met+(-0.0005)Lys+(0.0298)Leu;0.802,0.833,0.807,0.805,0.787,0.826,0.842,0.815,(4.1005)+(0.0043)Gln+(-0.0084)Ala+(-0.0186)Arg+(0.0084)Orn+(0.0651)Ile+(-0.1598)Trp;0.802,0.832,0.726,0.696,0.731,0.816,0.728,0.743,(3.8943)+(0.0452)Ser+(-0.0633)Asn+(-0.1319)His+(0.0064)Pro+(-0.0177)Tyr+(0.0190)Leu;0.802,0.830,0.795,0.790,0.741,0.866,0.873,0.817,(4.1849)+(-0.1528)Asn+(0.0066)Gln+(-0.0603)Cit+(-0.0017)Pro+(-0.0527)Val+(0.1643)Ile;0.802,0.828,0.736,0.701,0.741,0.827,0.753,0.756,(3.8827)+(0.0453)Ser+(-0.0047)Gly+(-0.1366)His+(0.0058)Pro+(0.0037)Val+(-0.0056)Lys;0.802,0.826,0.752,0.726,0.748,0.842,0.768,0.771,(4.2066)+(0.0449)Ser+(-0.0043)Gly+(-0.1338)His+(-0.0031)Ala+(0.0078)Val+(-0.0039)Lys;0.802,0.839,0.755,0.733,0.767,0.848,0.719,0.767,(4.1579)+(0.0422)Ser+(-0.0333)Asn+(-0.1216)His+(0.0044)Val+(-0.1099)Met+(0.0285)Orn;0.802,0.832,0.776,0.753,0.765,0.835,0.815,0.792,(3.2840)+(0.0109)Gln+(-0.1571)His+(-0.0184)Arg+(-0.0019)Pro+(-0.0038)Lys+(0.0498)Ile;0.802,0.833,0.792,0.776,0.772,0.842,0.836,0.807,(2.2759)+(0.0099)Gln+(-0.1579)His+(-0.0055)Ala+(-0.0469)Cit+(0.0061)Leu+(0.0795)Phe;0.802,0.823,0.772,0.752,0.751,0.842,0.815,0.790,(4.1779)+(0.0074)Gln+(-0.1529)His+(0.0109)Thr+(-0.0041)Ala+(-0.0161)Val+(0.0412)Leu;0.802,0.828,0.809,0.800,0.820,0.825,0.800,0.811,(8.6502)+(-0.0809)His+(-0.0022)Ala+(-0.0367)Cit+(0.0088)Val+(0.0086)Lys+(-0.1147)Trp;0.802,0.827,0.735,0.736,0.678,0.789,0.812,0.754,(1.6348)+(0.0063)Thr+(-0.0744)Cit+(-0.0737)Tyr+(-0.0507)Val+(0.1497)Ile+(0.0752)Phe;0.802,0.823,0.762,0.740,0.751,0.827,0.795,0.778,(4.3220)+(0.0077)Gln+(-0.1553)His+(0.0133)Thr+(-0.0181)Val+(-0.0092)Lys+(0.0447)Leu;0.802,0.838,0.798,0.793,0.797,0.820,0.800,0.802,(6.2332)+(0.0084)Pro+(-0.0323)Val+(-0.1723)Met+(0.0277)Orn+(0.0597)Leu+(-0.1265)Trp;0.802,0.838,0.784,0.777,0.781,0.810,0.792,0.790,(3.9745)+(0.0420)

Ser+(-0.0076)Gly+(-0.0177)Arg+(-0.0218)Val+(0.0459)Leu+(-0.1521)Trp;0.802,0.834,0.786,0.780,0.726,0.839,0.886,0.808,(2.8936)+(-0.1717)Asn+(0.0040)Gln+(-0.0597)Val+(-0.0020)Lys+(0.1607)Ile+(0.0608)Phe;0.802,0.833,0.794,0.789,0.818,0.814,0.744,0.791,(7.0299)+(0.0185)Thr+(-0.0800)Cit+(-0.0078)Tyr+(-0.0080)Lys+(0.0200)Leu+(-0.1674)Trp;0.802,0.832,0.775,0.748,0.753,0.834,0.849,0.796,(5.0100)+(-0.0146)Asn+(-0.1283)His+(-0.0069)Ala+(-0.0051)Arg+(0.0445)Ile+(0.0593)Phe;0.802,0.827,0.733,0.701,0.722,0.835,0.768,0.756,(3.5422)+(0.0391)Ser+(-0.1389)His+(-0.0035)Ala+(-0.0030)Tyr+(-0.0156)Val+(0.0468)Leu;0.802,0.827,0.731,0.716,0.652,0.842,0.856,0.767,(1.4405)+(0.0319)Ser+(-0.0041)Gln+(-0.0081)Thr+(-0.0105)Ala+(-0.0510)Val+(0.1770)Ile;0.802,0.840,0.805,0.803,0.798,0.822,0.812,0.809,(6.8857)+(-0.0849)Asn+(0.0055)Pro+(-0.0334)Val+(0.0300)Orn+(0.0553)Leu+(-0.1280)Trp;0.802,0.825,0.762,0.754,0.714,0.837,0.828,0.783,(5.7621)+(-0.1387)Asn+(0.0226)Thr+(-0.0217)Arg+(-0.0607)Val+(-0.0013)Lys+(0.1774)Ile;0.802,0.837,0.792,0.784,0.783,0.817,0.813,0.799,(3.2048)+(0.0372)Ser+(-0.0072)Gly+(-0.0054)Ala+(0.0130)Orn+(0.0132)Leu+(-0.1551)Trp;0.802,0.838,0.764,0.762,0.758,0.807,0.752,0.770,(3.1852)+(0.0256)Ser+(-0.0143)Tyr+(-0.0242)Val+(0.0159)Orn+(0.0469)Leu+(-0.1544)Trp;0.802,0.837,0.728,0.709,0.737,0.789,0.716,0.738,(4.4310)+(-0.1411)His+(0.0198)Thr+(-0.0650)Cit+(-0.0622)Tyr+(0.0397)Orn+(0.0999)Phe;0.802,0.829,0.757,0.737,0.758,0.789,0.785,0.767,(5.2490)+(-0.0802)Asn+(-0.1315)His+(0.0227)Thr+(0.0019)Pro+(-0.0108)Val+(0.0968)Phe;0.802,0.839,0.845,0.851,0.830,0.847,0.856,0.846,(5.2638)+(-0.0625)Asn+(0.0077)Gln+(-0.0271)Val+(-0.1255)Met+(0.0579)Leu+(-0.1291)Trp;0.802,0.839,0.809,0.821,0.798,0.782,0.818,0.805,(3.7396)+(0.0001)Gly+(-0.0052)Ala+(-0.0231)Tyr+(0.0042)Leu+(0.0912)Phe+(-0.1569)Trp;0.802,0.836,0.758,0.752,0.771,0.857,0.677,0.764,(5.0877)+(0.0354)Ser+(-0.1112)His+(0.0206)Thr+(-0.0003)Ala+(-0.0343)Cit+(-0.1553)Met;0.802,0.8

33,0.751,0.712,0.751,0.818,0.806,0.772,(1.7994)+(0.0086)Gln+(-0.1660)His+(-0.0611)Cit+(0.0209)Orn+(0.0292)Ile+(0.0500)Phe;0.802,0.833,0.804,0.806,0.796,0.855,0.781,0.809,(4.8972)+(-0.0445)Asn+(-0.0005)Gly+(0.0102)Gln+(-0.1319)His+(0.0233)Thr+(-0.1415)Met;0.802,0.830,0.809,0.812,0.827,0.838,0.745,0.806,(7.0267)+(0.0008)Gly+(0.0161)Thr+(-0.0047)Ala+(-0.0778)Cit+(0.0064)Val+(-0.1578)Trp;0.802,0.832,0.749,0.733,0.757,0.840,0.711,0.760,(4.6188)+(0.0356)Ser+(-0.1268)His+(-0.0023)Ala+(-0.0174)Arg+(-0.0080)Tyr+(0.0345)Orn;0.802,0.828,0.745,0.729,0.660,0.852,0.885,0.782,(0.6298)+(0.0319)Ser+(-0.0090)Gly+(-0.0117)Ala+(-0.0540)Val+(0.0105)Orn+(0.1732)Ile;0.802,0.828,0.746,0.730,0.728,0.819,0.774,0.763,(5.4928)+(0.0043)Gly+(-0.0955)His+(-0.0485)Cit+(-0.0239)Tyr+(0.1229)Ile+(-0.0472)Leu;0.802,0.827,0.806,0.797,0.821,0.818,0.791,0.807,(8.6338)+(-0.0108)Asn+(-0.0801)His+(-0.0346)Cit+(0.0070)Val+(0.0090)Lys+(-0.1156)Trp;0.802,0.840,0.808,0.828,0.807,0.771,0.786,0.798,(4.0033)+(0.0006)Gly+(-0.0133)Arg+(-0.0265)Tyr+(-0.0058)Val+(0.1038)Phe+(-0.1509)Trp;0.802,0.837,0.803,0.814,0.817,0.824,0.730,0.796,(6.2567)+(0.0216)Thr+(0.0139)Tyr+(-0.0019)Val+(-0.1901)Met+(0.0170)Orn+(-0.1428)Trp;0.802,0.833,0.805,0.799,0.786,0.830,0.841,0.814,(5.8084)+(-0.0341)Asn+(0.0020)Gly+(-0.0071)Ala+(-0.0069)Arg+(0.0675)Ile+(-0.1467)Trp;0.802,0.833,0.809,0.818,0.801,0.830,0.785,0.808,(6.9500)+(-0.0779)Asn+(0.0150)Thr+(-0.0062)Ala+(0.0083)Pro+(0.0167)Orn+(-0.1367)Trp;0.802,0.830,0.754,0.755,0.700,0.854,0.794,0.776,(0.4329)+(0.0335)Ser+(-0.0120)Ala+(-0.0372)Arg+(0.0049)Pro+(0.1864)Ile+(-0.0933)Leu;0.802,0.828,0.762,0.746,0.755,0.847,0.759,0.777,(5.2079)+(0.0437)Ser+(-0.0649)Asn+(-0.0044)Gly+(-0.1169)His+(0.0103)Thr+(-0.0018)Ala;0.802,0.827,0.762,0.761,0.705,0.830,0.834,0.783,(5.5225)+(-0.1244)Asn+(-0.0312)Tyr+(-0.0516)Val+(0.0343)Orn+(0.1740)Ile+(-0.0141)Leu;0.802,0.837,0.794,0.794,0.802,0.817,0.761,0.793,(4.1558)+(0.0417)Ser+(-0.0084)Gly+(-0.

0195)Arg+(0.0225)Orn+(-0.0041)Lys+(-0.1457)Trp;0.802,0.836,0.770,0.775,0.770,0.799,0.736,0.770,(2.7731)+(0.0294)Ser+(-0.0073)Thr+(0.0055)Pro+(-0.0029)Val+(0.0129)Orn+(-0.1493)Trp;0.802,0.832,0.740,0.712,0.740,0.844,0.740,0.759,(3.7922)+(0.0348)Ser+(-0.1399)His+(-0.0008)Thr+(-0.0038)Ala+(0.0048)Val+(0.0244)Orn;0.802,0.826,0.746,0.713,0.739,0.811,0.799,0.766,(2.9715)+(0.0009)Gly+(0.0073)Gln+(-0.1649)His+(0.0034)Thr+(0.0068)Orn+(0.0409)Ile;0.802,0.835,0.781,0.771,0.760,0.841,0.806,0.794,(1.9966)+(0.0036)Gly+(0.0089)Gln+(-0.1564)His+(-0.0051)Ala+(-0.0508)Cit+(0.0910)Phe;0.802,0.832,0.765,0.739,0.757,0.814,0.815,0.781,(5.2361)+(-0.0644)Asn+(-0.1177)His+(-0.0299)Val+(0.0340)Orn+(0.0402)Leu+(0.0750)Phe;0.802,0.827,0.794,0.791,0.737,0.863,0.868,0.815,(4.0641)+(-0.1461)Asn+(0.0066)Gln+(-0.0633)Cit+(-0.0457)Val+(0.1767)Ile+(-0.0218)Leu;0.802,0.837,0.813,0.800,0.826,0.824,0.812,0.815,(8.1876)+(-0.0890)His+(0.0220)Tyr+(0.0056)Val+(-0.0954)Met+(0.0127)Lys+(-0.1144)Trp;0.802,0.835,0.804,0.782,0.818,0.825,0.816,0.810,(8.4077)+(-0.0794)His+(-0.0429)Cit+(0.0130)Arg+(-0.0492)Met+(0.0281)Leu+(-0.1164)Trp;0.802,0.834,0.755,0.763,0.665,0.817,0.875,0.780,(1.7705)+(-0.0107)Ala+(0.0054)Pro+(-0.0478)Tyr+(-0.0525)Val+(0.1615)Ile+(0.0594)Phe;0.802,0.834,0.750,0.730,0.764,0.841,0.710,0.761,(4.6830)+(0.0406)Ser+(-0.0588)Asn+(-0.1224)His+(-0.0149)Arg+(0.0315)Orn+(0.0014)Lys;0.802,0.831,0.771,0.750,0.749,0.840,0.820,0.790,(3.2262)+(0.0085)Gln+(-0.1284)His+(-0.0533)Cit+(-0.0045)Pro+(0.1159)Ile+(-0.0440)Leu;0.802,0.830,0.757,0.744,0.757,0.841,0.727,0.767,(2.6925)+(0.0328)Ser+(0.0077)Gln+(-0.1499)His+(-0.0239)Arg+(0.0065)Pro+(-0.0003)Lys;0.802,0.839,0.760,0.741,0.770,0.853,0.723,0.772,(4.3735)+(0.0411)Ser+(-0.0387)Asn+(-0.1160)His+(0.0071)Tyr+(-0.1077)Met+(0.0309)Orn;0.802,0.834,0.831,0.845,0.827,0.824,0.809,0.826,(5.2052)+(-0.0531)Asn+(-0.0005)Gly+(0.0073)Gln+(0.0085)Pro+(-0.1275)Met+(-0.1327)Trp;0.802,0.835,0.765,0.772,0.769,0.803

,0.710,0.764,(3.3265)+(0.0285
)Ser+(0.0057)Pro+(-0.0160)Tyr+(0.0143)Orn+(-0.0068)Lys+(-0.1440)Trp;0
.802,0.835,0.768,0.771,0.773,0.801,0.727,0.768,(2.9020)+(0.0309)Ser+(
-0.0045)Thr+(0.0050)Pro+(0.0137)Orn+(-0.0069)Lys+(-0.1472)Trp;0.802,0
.834,0.754,0.747,0.761,0.846,0.693,0.762,(4.5322)+(0.0347)Ser+(-0.120
4)His+(0.0175)Thr+(0.0001)Ala+(-0.1749)Met+(0.0052)Lys;0.802,0.830,0.
770,0.750,0.754,0.817,0.818,0.785,(2.3132)+(0.0091)Gln+(-0.1623)His+(
-0.0380)Cit+(-0.0128)Val+(0.0206)Leu+(0.0747)Phe;0.802,0.834,0.762,0.
736,0.742,0.826,0.823,0.782,(4.5304)+(-0.1327)His+(-0.0044)Ala+(-0.02
21)Val+(0.0302)Orn+(0.0340)Leu+(0.0711)Phe;0.802,0.842,0.825,0.839,0.
815,0.793,0.830,0.819,(4.7590)+(-0.0589)Asn+(-0.0042)Ala+(-0.0204)Tyr
+(0.0037)Lys+(0.0944)Phe+(-0.1450)Trp;0.802,0.837,0.759,0.772,0.766,0
.787,0.693,0.754,(-1.4957)+(0.0552)Ser+(-0.0924)Asn+(-0.0757)Cit+(-0.
0236)Tyr+(-0.2550)Met+(0.1277)Phe;0.802,0.836,0.785,0.777,0.784,0.843
,0.763,0.792,(4.2723)+(0.0087)Gln+(-0.1452)His+(0.0200)Thr+(0.0036)Va
l+(-0.1773)Met+(0.0170)Orn;0.802,0.832,0.741,0.736,0.725,0.790,0.753,
0.751,(4.2628)+(0.0018)Gly+(-0.1466)His+(0.0204)Thr+(-0.0030)Ala+(-0.
0481)Tyr+(0.1064)Phe;0.802,0.825,0.743,0.727,0.703,0.815,0.818,0.766,
(5.4997)+(0.0014)Gly+(-0.0929)His+(-0.0207)Tyr+(-0.0304)Val+(0.1376)I
le+(-0.0106)Leu;0.802,0.835,0.826,0.824,0.823,0.835,0.834,0.829,(5.27
25)+(0.0054)Gln+(-0.0047)Ala+(-0.0731)Cit+(-0.0135)Val+(0.0421)Leu+(-
0.1596)Trp;0.802,0.834,0.718,0.679,0.730,0.823,0.720,0.738,(3.5388)+(
0.0392)Ser+(-0.1454)His+(-0.0162)Tyr+(0.0240)Orn+(-0.0092)Lys+(0.0228
)Leu;0.802,0.833,0.746,0.744,0.738,0.789,0.734,0.751,(5.1429)+(-0.144
3)His+(0.0293)Thr+(-0.0027)Ala+(-0.0211)Arg+(-0.0543)Tyr+(0.1145)Phe;
0.802,0.831,0.806,0.823,0.815,0.822,0.732,0.798,(6.5629)+(0.0237)Thr+
(-0.0017)Ala+(0.0009)Val+(-0.1667)Met+(0.0038)Lys+(-0.1433)Trp;0.802,
0.828,0.780,0.772,0.769,0.828,0.789,0.790,(4.5906)+(-0.0780)Asn+(0.01

00)Gln+(-0.1493)His+(0.0167)Thr+(-0.0221)Tyr+(0.0163)Leu;0.802,0.846,0.723,0.695,0.749,0.792,0.696,0.733,(-4.2518)+(0.0545)Ser+(-0.0955)Cit+(-0.4311)Met+(0.0116)Orn+(0.0547)Ile+(0.0989)Phe;0.802,0.834,0.794,0.803,0.795,0.838,0.734,0.792,(3.9612)+(0.0298)Ser+(-0.0042)Ala+(-0.0202)Arg+(0.0007)Val+(0.0236)Orn+(-0.1415)Trp;0.802,0.835,0.791,0.783,0.784,0.813,0.813,0.798,(3.3269)+(0.0379)Ser+(-0.0071)Gly+(0.0015)Thr+(-0.0050)Ala+(0.0156)Leu+(-0.1561)Trp;0.802,0.835,0.751,0.743,0.734,0.805,0.771,0.763,(4.1821)+(0.0033)Gly+(-0.1373)His+(-0.0034)Ala+(-0.0372)Tyr+(0.0274)Orn+(0.0949)Phe;0.802,0.834,0.772,0.758,0.762,0.814,0.801,0.784,(5.3973)+(-0.0738)Asn+(-0.1293)His+(0.0238)Thr+(-0.0037)Ala+(-0.0081)Val+(0.0997)Phe;0.802,0.830,0.754,0.720,0.748,0.834,0.802,0.776,(5.8827)+(-0.1353)His+(0.0158)Thr+(-0.0069)Ala+(-0.0151)Arg+(0.0201)Orn+(0.0521)Ile;0.802,0.835,0.775,0.777,0.772,0.750,0.792,0.773,(3.6222)+(0.0007)Gly+(-0.0162)Arg+(-0.0325)Tyr+(0.0446)Ile+(0.0717)Phe+(-0.1700)Trp;0.802,0.834,0.797,0.788,0.780,0.841,0.824,0.808,(2.2345)+(0.0116)Gln+(-0.1587)His+(-0.0045)Ala+(-0.0352)Cit+(-0.0165)Arg+(0.0899)Phe;0.802,0.829,0.813,0.802,0.824,0.831,0.807,0.816,(8.7780)+(-0.0756)His+(-0.0024)Ala+(-0.0471)Cit+(0.0102)Arg+(0.0112)Val+(-0.1136)Trp;0.802,0.841,0.742,0.728,0.716,0.810,0.783,0.759,(-4.4905)+(0.0504)Ser+(-0.0073)Ala+(-0.0071)Tyr+(-0.3835)Met+(0.0665)Ile+(0.0873)Phe;0.802,0.834,0.745,0.728,0.753,0.837,0.711,0.757,(4.8399)+(0.0366)Ser+(-0.0719)Asn+(-0.1213)His+(0.0061)Thr+(-0.0141)Tyr+(0.0298)Orn;0.802,0.832,0.792,0.783,0.793,0.799,0.806,0.795,(5.5659)+(-0.0120)Asn+(0.0020)Gly+(0.0028)Pro+(-0.1676)Met+(0.0629)Ile+(-0.1417)Trp;0.802,0.830,0.739,0.715,0.746,0.787,0.749,0.749,(4.4951)+(-0.0675)Asn+(0.0050)Gly+(-0.1466)His+(0.0200)Thr+(-0.0050)Lys+(0.0888)Phe;0.802,0.824,0.749,0.731,0.712,0.819,0.823,0.771,(6.0311)+(-0.0847)His+(-0.0345)Cit+(0.0004)Pro+(-0.0211)Tyr+(-0.0342)Val+(0.1341)Ile;0.802,0.835,0.767,0.74

9,0.737,0.862,0.810,0.790,(1.1900)+(0.0428)Ser+(-0.1213)Asn+(-0.0005)Thr+(-0.0116)Ala+(-0.0873)Cit+(0.0674)Ile;0.802,0.835,0.832,0.847,0.825,0.829,0.806,0.827,(5.3062)+(-0.0554)Asn+(0.0073)Gln+(0.0090)Pro+(-0.0021)Val+(-0.1240)Met+(-0.1295)Trp;0.802,0.833,0.796,0.786,0.778,0.820,0.846,0.807,(5.2244)+(0.0005)Gly+(-0.0081)Ala+(0.0099)Orn+(-0.0066)Lys+(0.0681)Ile+(-0.1506)Trp;0.802,0.832,0.790,0.787,0.747,0.875,0.826,0.809,(4.2826)+(-0.0619)Asn+(0.0059)Gly+(-0.0109)Ala+(-0.0905)Cit+(0.1785)Ile+(-0.0794)Leu;0.802,0.829,0.778,0.771,0.716,0.857,0.870,0.804,(4.2238)+(-0.0104)Ala+(-0.0640)Cit+(-0.0090)Arg+(-0.0374)Val+(0.2053)Ile+(-0.0383)Leu;0.802,0.827,0.716,0.675,0.735,0.820,0.705,0.734,(3.3131)+(0.0400)Ser+(-0.1474)His+(-0.0183)Arg+(0.0037)Pro+(0.0198)Orn+(0.0134)Leu;0.802,0.826,0.738,0.707,0.739,0.828,0.751,0.756,(4.0975)+(0.0436)Ser+(-0.0050)Gly+(-0.1329)His+(0.0021)Thr+(0.0065)Pro+(-0.0046)Lys;0.802,0.835,0.765,0.766,0.768,0.794,0.732,0.765,(2.7381)+(0.0309)Ser+(-0.0007)Gln+(-0.0073)Thr+(0.0050)Pro+(0.0115)Orn+(-0.1525)Trp;0.802,0.830,0.716,0.677,0.716,0.788,0.770,0.738,(3.3513)+(0.0040)Gly+(-0.1619)His+(0.0106)Thr+(-0.0043)Pro+(0.0363)Ile+(0.0571)Phe;0.802,0.826,0.740,0.725,0.723,0.843,0.740,0.758,(4.0821)+(0.0373)Ser+(-0.1244)His+(-0.0052)Ala+(0.0123)Pro+(-0.0097)Tyr+(-0.0001)Lys;0.802,0.841,0.822,0.831,0.834,0.778,0.807,0.813,(3.8157)+(-0.0069)Arg+(-0.2081)Met+(0.0073)Lys+(-0.0006)Leu+(0.1090)Phe+(-0.1474)Trp;0.802,0.830,0.736,0.703,0.747,0.827,0.734,0.753,(4.0301)+(0.0468)Ser+(-0.0511)Asn+(-0.1345)His+(-0.0082)Arg+(-0.0032)Lys+(0.0225)Leu;0.802,0.839,0.790,0.783,0.780,0.816,0.811,0.797,(5.3345)+(0.0149)Thr+(-0.0087)Ala+(-0.0212)Arg+(0.0078)Orn+(0.0653)Ile+(-0.1623)Trp;0.802,0.837,0.788,0.790,0.782,0.861,0.745,0.794,(2.8993)+(0.0322)Ser+(0.0090)Gln+(-0.1355)His+(-0.0205)Arg+(-0.1233)Met+(0.0077)Lys;0.802,0.833,0.821,0.829,0.834,0.835,0.760,0.815,(5.8209)+(-0.0008)Gly+(0.0046)Gln+(0.0124)Thr+(-0.07

71)Cit+(-0.0045)Lys+(-0.1593)Trp;0.802,0.828,0.718,0.680,0.736,0.824,0.703,0.736,(3.4974)+(0.0384)Ser+(-0.1496)His+(0.0035)Thr+(-0.0184)Arg+(0.0203)Orn+(0.0155)Leu;0.802,0.826,0.741,0.711,0.746,0.830,0.749,0.759,(4.1899)+(0.0434)Ser+(-0.0047)Gly+(-0.1388)His+(0.0046)Thr+(0.0056)Val+(-0.0060)Lys;0.802,0.832,0.808,0.813,0.815,0.842,0.758,0.807,(8.9882)+(-0.0128)Asn+(0.0043)Gly+(-0.0655)His+(-0.0000)Ala+(-0.0369)Cit+(-0.0971)Trp;0.802,0.832,0.781,0.767,0.774,0.822,0.801,0.791,(1.9851)+(0.0117)Gln+(-0.1684)His+(-0.0303)Cit+(-0.0188)Arg+(-0.0006)Leu+(0.0817)Phe;0.802,0.827,0.748,0.721,0.743,0.840,0.764,0.767,(4.0932)+(0.0420)Ser+(-0.0043)Gly+(-0.1382)His+(0.0039)Thr+(-0.0034)Ala+(0.0065)Val;0.802,0.837,0.778,0.767,0.784,0.799,0.780,0.783,(3.2016)+(0.0432)Ser+(-0.0088)Gly+(0.0147)Orn+(-0.0123)Lys+(0.0137)Leu+(-0.1542)Trp;0.802,0.834,0.787,0.784,0.808,0.799,0.740,0.783,(6.5706)+(0.0137)Thr+(-0.0799)Cit+(0.0061)Pro+(-0.0156)Tyr+(0.0135)Leu+(-0.1685)Trp;0.802,0.832,0.805,0.797,0.793,0.825,0.839,0.813,(5.9879)+(-0.0327)Asn+(-0.0072)Ala+(-0.0095)Arg+(0.0144)Orn+(0.0618)Ile+(-0.1468)Trp;0.802,0.828,0.736,0.707,0.728,0.838,0.755,0.757,(3.7792)+(0.0413)Ser+(-0.1353)His+(-0.0032)Ala+(-0.0112)Arg+(-0.0154)Val+(0.0460)Leu;0.802,0.830,0.732,0.695,0.737,0.832,0.747,0.753,(4.5872)+(0.0047)Gly+(-0.1098)His+(-0.0749)Cit+(0.0394)Orn+(0.1096)Ile+(-0.0486)Leu;0.802,0.831,0.813,0.817,0.833,0.820,0.759,0.807,(5.3562)+(-0.0002)Gly+(0.0043)Gln+(0.0094)Thr+(-0.0816)Cit+(0.0033)Val+(-0.1685)Trp;0.802,0.826,0.719,0.679,0.738,0.825,0.711,0.738,(3.7992)+(0.0407)Ser+(-0.1428)His+(0.0077)Thr+(-0.0362)Cit+(-0.0112)Lys+(0.0257)Leu;0.802,0.834,0.745,0.719,0.756,0.838,0.723,0.759,(4.4169)+(0.0398)Ser+(-0.0654)Asn+(-0.1251)His+(0.0014)Val+(0.0282)Orn+(-0.0016)Lys;0.802,0.830,0.726,0.718,0.718,0.759,0.742,0.734,(4.3077)+(-0.1496)His+(0.0211)Thr+(0.0026)Pro+(-0.0588)Tyr+(0.0007)Leu+(0.1021)Phe;0.802,0.830,0.792,0.782,0.797,0.801,0.802,0.795,

(5.4882)+(-0.0148)Asn+(0.0017)Gly+(-0.1619)Met+(0.0097)Orn+(0.0623)Ile+(-0.1418)Trp;0.802,0.828,0.727,0.695,0.724,0.828,0.748,0.749,(3.5857)+(0.0375)Ser+(-0.1467)His+(0.0053)Thr+(-0.0040)Ala+(-0.0111)Tyr+(0.0249)Leu;0.802,0.827,0.760,0.749,0.756,0.848,0.732,0.771,(3.3079)+(0.0290)Ser+(0.0066)Gln+(-0.1407)His+(0.0036)Thr+(-0.0372)Cit+(-0.0045)Lys;0.802,0.827,0.786,0.783,0.717,0.859,0.886,0.811,(5.5830)+(-0.0945)Asn+(-0.0072)Ala+(-0.0102)Arg+(-0.0556)Val+(0.0036)Lys+(0.1808)Ile;0.802,0.827,0.762,0.740,0.757,0.843,0.770,0.778,(4.6279)+(0.0472)Ser+(-0.0490)Asn+(-0.0038)Gly+(-0.1227)His+(-0.0025)Ala+(0.0058)Val;0.802,0.844,0.823,0.831,0.833,0.779,0.815,0.815,(3.6241)+(0.0037)Tyr+(-0.2211)Met+(0.0055)Lys+(0.0003)Leu+(0.1075)Phe+(-0.1479)Trp;0.802,0.838,0.767,0.759,0.772,0.795,0.758,0.771,(0.5950)+(0.0418)Thr+(-0.0533)Val+(-0.4535)Met+(-0.0078)Lys+(0.0792)Leu+(0.1236)Phe;0.802,0.834,0.806,0.796,0.789,0.827,0.852,0.816,(5.9015)+(-0.0369)Asn+(-0.0073)Ala+(0.0123)Orn+(-0.0032)Lys+(0.0634)Ile+(-0.1456)Trp;0.802,0.834,0.794,0.784,0.807,0.824,0.775,0.797,(7.9409)+(0.0039)Gly+(-0.0968)His+(-0.0020)Arg+(0.0152)Tyr+(0.0079)Val+(-0.1094)Trp;0.802,0.833,0.765,0.749,0.763,0.819,0.774,0.776,(1.7397)+(0.0027)Gly+(0.0103)Gln+(-0.1736)His+(-0.0249)Arg+(0.0128)Orn+(0.0764)Phe;0.802,0.832,0.744,0.711,0.732,0.817,0.803,0.766,(5.0789)+(-0.1255)His+(0.0057)Thr+(-0.0050)Pro+(0.0206)Orn+(0.1070)Ile+(-0.0441)Leu;0.802,0.832,0.729,0.716,0.714,0.775,0.759,0.741,(4.3949)+(-0.1473)His+(0.0229)Thr+(-0.0516)Tyr+(-0.0173)Val+(0.0283)Leu+(0.1005)Phe;0.802,0.837,0.782,0.782,0.774,0.795,0.789,0.785,(6.0071)+(-0.0753)Asn+(0.0165)Thr+(-0.0006)Pro+(-0.0223)Tyr+(0.0515)Ile+(-0.1540)Trp;0.802,0.836,0.792,0.791,0.792,0.812,0.782,0.794,(3.6166)+(0.0398)Ser+(-0.0089)Gly+(0.0005)Gln+(0.0180)Orn+(-0.0087)Lys+(-0.1464)Trp;0.802,0.840,0.726,0.703,0.727,0.787,0.742,0.740,(-4.4730)+(0.0551)Ser+(-0.4040)Met+(-0.0059)Orn+(-0.0164)Lys+(0.0659)Ile+(0.0969)P

he;0.802,0.831,0.744,0.719,0.746,0.825,0.747,0.759,(4.4090)+(0.0389)Ser+(-0.0058)Gly+(-0.1323)His+(0.0027)Thr+(-0.0216)Tyr+(0.0291)Orn;0.802,0.837,0.786,0.785,0.781,0.861,0.748,0.794,(3.0156)+(0.0318)Ser+(0.0079)Gln+(-0.1257)His+(-0.0326)Cit+(-0.1325)Met+(0.0037)Lys;0.802,0.833,0.794,0.778,0.771,0.878,0.824,0.813,(4.4674)+(-0.0098)Ala+(-0.1021)Cit+(-0.1514)Met+(0.0406)Orn+(0.1757)Ile+(-0.0801)Leu;0.802,0.830,0.730,0.724,0.719,0.762,0.743,0.737,(4.3050)+(-0.1437)His+(0.0209)Thr+(0.0036)Pro+(-0.0565)Tyr+(-0.0050)Val+(0.1095)Phe;0.802,0.844,0.827,0.832,0.838,0.789,0.818,0.819,(3.9873)+(-0.0032)Arg+(0.0048)Tyr+(-0.2029)Met+(0.0027)Leu+(0.1080)Phe
+(-0.1450)Trp;0.802,0.837,0.764,0.742,0.775,0.853,0.736,0.776,(4.5670)+(0.0452)Ser+(-0.0044)Gly+(-0.1175)His+(-0.0126)Arg+(-0.1055)Met+(0.0348)Orn;0.802,0.836,0.790,0.784,0.786,0.846,0.771,0.797,(4.5263)+(-0.0009)Gly+(0.0086)Gln+(-0.1398)His+(0.0198)Thr+(-0.1689)Met+(0.0204)Orn;0.802,0.836,0.799,0.791,0.779,0.820,0.850,0.810,(5.6470)+(-0.0090)Ala+(-0.0106)Arg+(0.0062)Pro+(-0.0023)Lys+(0.0652)Ile+(-0.1501)Trp;0.802,0.835,0.750,0.723,0.764,0.856,0.713,0.764,(4.6102)+(0.0332)Ser+(-0.1168)His+(-0.0040)Ala+(-0.0737)Cit+(-0.0107)Tyr+(0.0526)Orn;0.802,0.832,0.723,0.688,0.736,0.824,0.714,0.741,(3.6572)+(0.0363)Ser+(-0.1411)His+(0.0048)Pro+(0.0023)Val+(0.0227)Orn+(-0.0070)Lys;0.802,0.829,0.780,0.774,0.708,0.858,0.889,0.807,(5.4446)+(-0.1064)Asn+(-0.0088)Ala+(0.0067)Pro+(-0.0551)Val+(0.0019)Lys+(0.1738)Ile;0.802,0.831,0.813,0.807,0.815,0.828,0.814,0.816,(8.4894)+(-0.0232)Asn+(-0.0843)His+(-0.0013)Ala+(0.0143)Tyr+(0.0115)Lys+(-0.1074)Trp;0.802,0.827,0.780,0.761,0.767,0.842,0.809,0.795,(4.1882)+(0.0086)Gln+(-0.1576)His+(0.0119)Thr+(-0.0044)Ala+(-0.0074)Lys+(0.0204)Leu;0.802,0.822,0.760,0.757,0.691,0.842,0.854,0.786,(3.6381)+(-0.0007)Gly+(0.0106)Thr+(-0.0096)Ala+(-0.0289)Arg+(-0.0569)Val+(0.1846)Ile;0.802,0.827,0.779,0.763,0.775,0.830,

0.797,0.791,(4.1717)+(-0.0818)Asn+(0.0009)Gly+(0.0102)Gln+(-0.1546)His+(0.0132)Thr+(0.0138)Leu;0.802,0.835,0.772,0.749,0.758,0.830,0.824,0.790,(5.7399)+(0.0328)Asn+(-0.0945)His+(0.0002)Tyr+(-0.1841)Met+(0.1361)Ile+(-0.0499)Leu;0.802,0.828,0.749,0.723,0.734,0.834,0.790,0.770,(5.6047)+(0.0033)Gly+(-0.1336)His+(0.0159)Thr+(-0.0067)Ala+(-0.0143)Arg+(0.0592)Ile;0.802,0.839,0.816,0.832,0.809,0.791,0.809,0.810,(4.0586)+(0.0009)Gly+(-0.0046)Ala+(-0.0127)Arg+(-0.0187)Tyr+(0.0989)Phe+(-0.1527)Trp;0.802,0.837,0.745,0.723,0.759,0.837,0.706,0.756,(3.8934)+(0.0472)Ser+(-0.1198)His+(-0.0103)Arg+(0.0115)Pro+(0.0051)Val+(-0.1533)Met;0.802,0.834,0.787,0.768,0.789,0.822,0.807,0.796,(4.4280)+(-0.1170)His+(-0.0015)Ala+(-0.0068)Val+(-0.1650)Met+(0.0298)Orn+(0.1151)Phe;0.802,0.827,0.811,0.803,0.822,0.826,0.797,0.812,(9.0085)+(0.0067)Asn+(-0.0754)His+(-0.0020)Ala+(-0.0394)Cit+(0.0106)Val+(-0.1111)Trp;0.802,0.839,0.813,0.828,0.802,0.783,0.819,0.808,(3.8246)+(0.0001)Gly+(-0.0048)Ala+(-0.0229)Tyr+(-0.0011)Lys+(0.0953)Phe+(-0.1531)Trp;0.802,0.834,0.762,0.745,0.750,0.824,0.786,0.776,(4.3504)+(-0.0450)Asn+(0.0054)Gly+(-0.1336)His+(-0.0047)Ala+(0.0236)Orn+(0.0838)Phe;0.802,0.832,0.765,0.744,0.716,0.860,0.854,0.794,(3.7191)+(-0.0114)Ala+(-0.0907)Cit+(-0.0132)Arg+(-0.0522)Val+(0.0475)Orn+(0.1747)Ile;0.802,0.831,0.760,0.764,0.683,0.849,0.848,0.786,(1.1834)+(0.0349)Ser+(-0.0093)Gly+(-0.0104)Ala+(-0.0425)Tyr+(0.1752)Ile+(-0.0828)Leu;0.802,0.828,0.760,0.742,0.741,0.814,0.809,0.776,(3.4604)+(0.0005)Gly+(0.0082)Gln+(-0.1520)His+(-0.0007)Pro+(-0.0261)Tyr+(0.0504)Ile;0.802,0.836,0.839,0.853,0.843,0.851,0.787,0.833,(5.3761)+(0.0009)Gly+(0.0071)Gln+(-0.0662)Cit+(0.0012)Arg+(-0.0943)Met+(-0.1393)Trp;0.802,0.834,0.767,0.749,0.737,0.862,0.810,0.790,(1.2044)+(0.0426)Ser+(-0.1225)Asn+(-0.0116)Ala+(-0.0880)Cit+(0.0005)Arg+(0.0673)Ile;0.802,0.834,0.811,0.808,0.820,0.821,0.795,0.811,(5.0786)+(0.0013)Gly+(0.0046)Gln+(-0.0769)Cit+(-0.0145)Val+(0.0381)

Leu+(-0.1661)Trp;0.802,0.833,0.803,0.804,0.824,0.819,0.747,0.799,(7.1516)+(0.0036)Gly+(-0.0698)Cit+(0.0104)Pro+(0.0031)Val+(-0.0926)Met+(-0.1406)Trp;0.802,0.829,0.778,0.770,0.712,0.861,0.879,0.805,(3.3127)+(0.0021)Gln+(-0.0109)Ala+(-0.0633)Cit+(-0.0124)Arg+(-0.0502)Val+(0.1800)Ile;0.802,0.826,0.797,0.785,0.778,0.844,0.833,0.810,(4.4682)+(-0.0829)Asn+(0.0012)Gly+(0.0111)Gln+(-0.1353)His+(-0.0218)Val+(0.0468)Leu;0.802,0.824,0.731,0.696,0.735,0.821,0.749,0.750,(3.6591)+(0.0433)Ser+(-0.0045)Gly+(-0.1403)His+(-0.0001)Thr+(0.0056)Pro+(0.0022)Val;0.802,0.834,0.834,0.846,0.832,0.830,0.812,0.830,(5.0537)+(-0.0528)Asn+(0.0073)Gln+(0.0079)Pro+(0.0117)Tyr+(-0.1449)Met+(-0.1356)Trp;0.802,0.834,0.802,0.803,0.807,0.825,0.769,0.801,(8.1576)+(0.0034)Gly+(-0.0854)His+(-0.0063)Arg+(-0.0612)Met+(0.0161)Lys+(-0.1009)Trp;0.802,0.833,0.798,0.775,0.813,0.819,0.812,0.805,(8.3972)+(-0.0044)Asn+(-0.0826)His+(-0.0432)Cit+(0.0098)Arg+(0.0261)Leu+(-0.1204)Trp;0.802,0.829,0.760,0.739,0.754,0.813,0.788,0.774,(2.1413)+(0.0087)Gln+(-0.1712)His+(0.0083)Thr+(-0.0437)Cit+(-0.0010)Pro+(0.0763)Phe;0.802,0.836,0.790,0.781,0.804,0.809,0.775,0.792,(6.3556)+(0.0028)Gly+(-0.0749)Cit+(0.0074)Pro+(-0.0176)Val+(0.0410)Leu+(-0.1596)Trp;0.802,0.831,0.746,0.724,0.732,0.808,0.786,0.762,(3.7003)+(0.0066)Gln+(-0.1547)His+(0.0082)Thr+(-0.0349)Tyr+(0.0129)Orn+(0.0470)Ile;0.802,0.829,0.758,0.737,0.753,0.810,0.790,0.772,(2.1252)+(0.0087)Gln+(-0.1714)His+(0.0080)Thr+(-0.0438)Cit+(0.0004)Leu+(0.0746)Phe;0.802,0.828,0.762,0.748,0.737,0.813,0.812,0.777,(6.0814)+(-0.0229)Asn+(-0.0996)His+(-0.0297)Tyr+(0.0051)Lys+(0.1175)Ile+(-0.0489)Leu;0.802,0.837,0.752,0.730,0.767,0.847,0.711,0.764,(4.0966)+(0.0457)Ser+(-0.1085)His+(-0.0315)Cit+(0.0125)Pro+(0.0102)Tyr+(-0.1750)Met;0.802,0.835,0.747,0.728,0.720,0.831,0.796,0.769,(-0.8308)+(0.0494)Ser+(-0.0548)Asn+(-0.0093)Ala+(0.0100)Pro+(-0.2716)Met+(0.0687)Ile;0.802,0.834,0.778,0.771,0.755,0.802,0.827,0.789,(0.3921)+(-0.008

4)Asn+(0.0002)Pro+(-0.3159)Met+(0.1728)Ile+(-0.0956)Leu+(0.1053)Phe;0
.802,0.834,0.804,0.806,0.795,0.857,0.779,0.809,(4.9112)+(-0.0453)Asn+
(0.0101)Gln+(-0.1311)His+(0.0231)Thr+(-0.0004)Ala+(-0.1378)Met;0.802,
0.831,0.772,0.759,0.755,0.825,0.803,0.785,(3.5467)+(0.0108)Gln+(-0.15
03)His+(-0.0188)Arg+(-0.0229)Tyr+(-0.0012)Lys+(0.0513)Ile;0.802,0.829
,0.746,0.733,0.737,0.833,0.734,0.759,(2.9520)+(0.0304)Ser+(0.0057)Gln
+(-0.1445)His+(0.0072)Pro+(-0.0136)Tyr+(-0.0037)Lys;0.802,0.833,0.804
,0.819,0.811,0.829,0.734,0.798,(6.4357)+(0.0216)Thr+(-0.0022)Ala+(-0.
0006)Val+(-0.1582)Met+(0.0197)Orn+(-0.1385)Trp;0.802,0.830,0.767,0.75
4,0.764,0.820,0.772,0.777,(1.6150)+(0.0037)Gly+(0.0109)Gln+(-0.1693)H
is+(-0.0347)Cit+(-0.0194)Arg+(0.0870)Phe;0.802,0.829,0.806,0.798,0.81
0,0.825,0.804,0.809,(8.5936)+(0.0022)Asn+(-0.0876)His+(-0.0015)Ala+(0
.0021)Arg+(0.0089)Val+(-0.1049)Trp;0.802,0.838,0.772,0.770,0.770,0.81
7,0.749,0.776,(3.5966)+(0.0332)Ser+(-0.0153)Arg+(-0.0222)Val+(-0.0049
)Lys+(0.0501)Leu+(-0.1502)Trp;0.802,0.834,0.806,0.815,0.821,0.816,0.7
42,0.798,(6.4962)+(-0.0022)Gly+(0.0232)Thr+(0.0105)Tyr+(-0.1893)Met+(
0.0162)Orn+(-0.1454)Trp;0.802,0.831,0.741,0.724,0.739,0.828,0.730,0.7
55,(2.8126)+(0.0282)Ser+(0.0051)Gln+(-0.1544)His+(-0.0177)Tyr+(0.0045
)Val+(0.0189)Orn;0.802,0.830,0.810,0.813,0.825,0.816,0.766,0.805,(5.1
182)+(0.0010)Gly+(0.0048)Gln+(-0.0851)Cit+(0.0069)Pro+(0.0022)Val+(-0
.1650)Trp;0.802,0.829,0.811,0.821,0.805,0.826,0.788,0.810,(6.8866)+(-
0.0298)Asn+(-0.0048)Ala+(0.0109)Pro+(-0.0941)Met+(0.0249)Orn+(-0.1235
)Trp;0.801,0.830,0.760,0.732,0.745,0.837,0.811,0.781,(6.1826)+(-0.130
1)His+(0.0190)Thr+(-0.0067)Ala+(-0.0113)Arg+(-0.0042)Lys+(0.0592)Ile;
0.801,0.829,0.765,0.758,0.765,0.850,0.719,0.773,(3.2027)+(0.0293)Ser+
(0.0079)Gln+(-0.1464)His+(0.0064)Thr+(-0.0220)Cit+(-0.0211)Arg;0.801,
0.827,0.740,0.731,0.652,0.849,0.871,0.776,(0.2983)+(0.0283)Ser+(-0.01
35)Thr+(-0.0125)Ala+(0.0067)Pro+(-0.0501)Val+(0.1661)Ile;0.801,0.825,

0.750,0.733,0.752,0.833,0.731,0.762,(2.5899)+(0.0311)Ser+(0.0069)Gln+(-0.1508)His+(-0.0405)Cit+(-0.0135)Tyr+(0.0078)Val;0.801,0.825,0.735,0.712,0.730,0.821,0.741,0.751,(4.2587)+(0.0426)Ser+(-0.0058)Gly+(-0.1289)His+(0.0040)Thr+(0.0082)Pro+(-0.0234)Tyr;0.801,0.838,0.751,0.734,0.765,0.844,0.702,0.761,(4.3443)+(0.0457)Ser+(-0.1067)His+(-0.0265)Cit+(-0.0061)Arg+(0.0132)Pro+(-0.1518)Met;0.801,0.837,0.809,0.800,0.817,0.824,0.804,0.811,(8.4688)+(-0.0748)His+(0.0007)Arg+(0.0088)Pro+(0.0188)Tyr+(-0.0720)Met+(-0.1027)Trp;0.801,0.834,0.752,0.735,0.765,0.840,0.709,0.762,(4.9215)+(0.0401)Ser+(-0.0550)Asn+(-0.1186)His+(-0.0141)Arg+(-0.0100)Tyr+(0.0348)Orn;0.801,0.824,0.786,0.785,0.718,0.857,0.879,0.810,(5.5603)+(-0.0798)Asn+(-0.0073)Ala+(-0.0104)Arg+(-0.0470)Val+(0.1958)Ile+(-0.0228)Leu;0.801,0.836,0.798,0.794,0.806,0.828,0.773,0.800,(8.1905)+(0.0038)Gly+(-0.0903)His+(0.0023)Arg+(0.0095)Val+(-0.0349)Met+(-0.1028)Trp;0.801,0.835,0.809,0.799,0.820,0.831,0.796,0.812,(8.8479)+(-0.0118)Asn+(-0.0668)His+(-0.0377)Cit+(0.0085)Pro+(0.0111)Tyr+(-0.1107)Trp;0.801,0.835,0.750,0.728,0.764,0.840,0.712,0.761,(4.6546)+(0.0409)Ser+(-0.0565)Asn+(-0.1232)His+(-0.0143)Arg+(0.0009)Val+(0.0313)Orn;0.801,0.831,0.767,0.749,0.747,0.822,0.817,0.784,(3.6192)+(0.0088)Gln+(-0.1484)His+(-0.0008)Pro+(-0.0225)Tyr+(-0.0056)Lys+(0.0532)Ile;0.801,0.830,0.815,0.818,0.829,0.820,0.777,0.811,(5.3113)+(0.0054)Gln+(-0.0844)Cit+(0.0069)Pro+(0.0030)Val+(-0.0034)Lys+(-0.1628)Trp;0.801,0.830,0.761,0.761,0.702,0.858,0.815,0.784,(0.2985)+(0.0381)Ser+(-0.0109)Thr+(-0.0104)Ala+(-0.0309)Arg+(0.1964)Ile+(-0.0947)Leu;0.801,0.829,0.763,0.759,0.707,0.834,0.838,0.784,(5.5825)+(-0.1298)Asn+(-0.0012)Pro+(-0.0293)Tyr+(-0.0565)Val+(0.0361)Orn+(0.1662)Ile;0.801,0.828,0.747,0.720,0.750,0.829,0.754,0.763,(4.3987)+(0.0481)Ser+(-0.0631)Asn+(-0.0040)Gly+(-0.1217)His+(0.0074)Pro+(0.0007)Val;0.801,0.827,0.787,0.784,0.715,0.863,0.888,0.812,(5.3178)+(-0.1004)Asn+(-0.0076)Ala+(-0.0

479)Val+(0.0025)Lys+(0.1915)Ile+(-0.0205)Leu;0.801,0.824,0.746,0.728,0.744,0.833,0.733,0.759,(2.6563)+(0.0315)Ser+(0.0062)Gln+(-0.1459)His+(-0.0017)Thr+(-0.0369)Cit+(0.0059)Pro;0.801,0.838,0.760,0.744,0.774,0.852,0.707,0.769,(4.7226)+(0.0414)Ser+(-0.0351)Asn+(-0.1147)His+(-0.0116)Arg+(-0.0818)Met+(0.0348)Orn;0.801,0.834,0.792,0.790,0.787,0.848,0.768,0.798,(4.3095)+(0.0095)Gln+(-0.1446)His+(0.0221)Thr+(-0.0012)Ala+(0.0062)Val+(-0.1749)Met;0.801,0.834,0.803,0.807,0.804,0.831,0.768,0.803,(4.7929)+(0.0377)Ser+(-0.0078)Gly+(0.0088)Thr+(-0.0028)Ala+(-0.0188)Arg+(-0.1456)Trp;0.801,0.837,0.775,0.764,0.777,0.783,0.795,0.780,(2.8389)+(0.0410)Ser+(-0.0081)Gly+(-0.0042)Thr+(0.0046)Pro+(0.0071)Leu+(-0.1608)Trp;0.801,0.835,0.764,0.775,0.765,0.797,0.710,0.761,(3.2932)+(0.0256)Ser+(0.0060)Pro+(-0.0190)Tyr+(-0.0025)Val+(0.0127)Orn+(-0.1470)Trp;0.801,0.839,0.822,0.840,0.814,0.794,0.813,0.815,(4.2485)+(-0.0039)Ala+(-0.0120)Arg+(-0.0192)Tyr+(-0.0039)Val+(0.1039)Phe+(-0.1479)Trp;0.801,0.838,0.816,0.832,0.817,0.772,0.805,0.806,(4.8691)+(-0.0516)Asn+(-0.0072)Arg+(-0.0248)Tyr+(-0.0010)Leu+(0.0952)Phe+(-0.1466)Trp;0.801,0.828,0.739,0.708,0.715,0.824,0.811,0.764,(5.7313)+(-0.0949)His+(0.0140)Thr+(-0.0405)Cit+(-0.0340)Val+(-0.0085)Lys+(0.1326)Ile;0.801,0.826,0.772,0.756,0.760,0

.827,0.800,0.786,(3.4450)+(0.0110)Gln+(-0.1446)His+(-0.0373)Cit+(-0.0135)Arg+(-0.0249)Tyr+(0.0539)Ile;0.801,0.826,0.768,0.756,0.720,0.845,0.842,0.791,(5.7114)+(-0.1438)Asn+(0.0173)Thr+(-0.0542)Cit+(-0.0527)Val+(0.1754)Ile+(-0.0103)Leu;0.801,0.835,0.748,0.732,0.757,0.836,0.706,0.758,(3.9406)+(0.0452)Ser+(-0.1169)His+(-0.0142)Arg+(0.0131)Pro+(-0.1742)Met+(0.0089)Lys;0.801,0.834,0.803,0.809,0.800,0.857,0.755,0.805,(5.0607)+(-0.0359)Asn+(0.0114)Gln+(-0.1338)His+(0.0268)Thr+(-0.0197)Arg+(-0.1331)Met;0.801,0.833,0.777,0.759,0.780,0.806,0.796,0.785,(4.1755)+(-0.1138)His+(0.0067)Pro+(-0.0093)Val+(-0.1958)Met+(0.0268)Orn+(

0.1161)Phe;0.801,0.830,0.767,0.736,0.754,0.842,0.823,0.789,(6.4309)+(-0.0334)Asn+(-0.1148)His+(0.0192)Thr+(-0.0078)Ala+(-0.0494)Cit+(0.0615)Ile;0.801,0.839,0.750,0.724,0.764,0.847,0.717,0.763,(3.7245)+(0.0413)Ser+(-0.1286)His+(0.0078)Tyr+(0.0054)Val+(-0.1491)Met+(0.0258)Orn;0.801,0.833,0.811,0.804,0.828,0.808,0.797,0.809,(7.5582)+(-0.0454)Asn+(-0.0745)Cit+(0.0068)Arg+(0.0068)Pro+(0.0125)Leu+(-0.1533)Trp;0.801,0.831,0.814,0.822,0.808,0.835,0.790,0.814,(3.9441)+(0.0383)Ser+(-0.0079)Gly+(0.0027)Gln+(-0.0026)Ala+(-0.0178)Arg+(-0.1430)Trp;0.801,0.827,0.741,0.714,0.726,0.816,0.790,0.761,(4.9723)+(0.0024)Gly+(-0.1237)His+(0.0065)Thr+(-0.0040)Pro+(0.1085)Ile+(-0.0413)Leu;0.801,0.840,0.790,0.781,0.792,0.803,0.803,0.795,(5.8015)+(-0.0735)Asn+(0.0146)Thr+(0.0044)Orn+(-0.0056)Lys+(0.0490)Ile+(-0.1574)Trp;0.801,0.835,0.804,0.797,0.786,0.824,0.846,0.813,(5.8830)+(-0.0409)Asn+(-0.0071)Ala+(-0.0051)Tyr+(0.0117)Orn+(0.0619)Ile+(-0.1461)Trp;0.801,0.833,0.790,0.787,0.787,0.842,0.765,0.795,(4.2667)+(-0.0003)Gly+(0.0096)Gln+(-0.1454)His+(0.0224)Thr+(0.0055)Val+(-0.1820)Met;0.801,0.833,0.805,0.807,0.822,0.823,0.752,0.801,(7.6060)+(-0.0542)Asn+(0.0041)Gly+(-0.0763)Cit+(0.0066)Arg+(0.0092)Pro+(-0.1406)Trp;0.801,0.837,0.780,0.777,0.773,0.826,0.769,0.786,(3.0426)+(0.0318)Ser+(-0.0057)Ala+(0.0161)Orn+(-0.0098)Lys+(0.0193)Leu+(-0.1488)Trp;0.801,0.833,0.788,0.785,0.789,0.798,0.785,0.789,(3.2624)+(0.0387)Ser+(-0.0082)Gly+(-0.0000)Gln+(-0.0037)Thr+(0.0143)Orn+(-0.1529)Trp;0.801,0.833,0.779,0.779,0.776,0.791,0.779,0.781,(4.9173)+(0.0061)Thr+(0.0031)Pro+(-0.0280)Val+(0.0163)Orn+(0.0478)Leu+(-0.1582)Trp;0.801,0.834,0.776,0.751,0.765,0.839,0.818,0.793,(5.9984)+(0.0322)Asn+(-0.0845)His+(-0.0372)Cit+(-0.1741)Met+(0.1407)Ile+(-0.0527)Leu;0.801,0.834,0.751,0.726,0.732,0.819,0.808,0.771,(4.4712)+(-0.1450)His+(0.0177)Thr+(-0.0047)Ala+(-0.0205)Val+(0.0347)Leu+(0.0760)Phe;0.801,0.832,0.734,0.705,0.734,0.824,0.745,0.752,(4.0577)+(0.0415)Ser+(

-0.0060)Gly+(-0.1317)His+(0.0073)Pro+(-0.0289)Tyr+(0.0265)Orn;0.801,0.839,0.789,0.806,0.792,0.748,0.771,0.779,(3.8993)+(0.0003)Gly+(-0.0154)Arg+(0.0057)Pro+(-0.0340)Tyr+(0.0919)Phe+(-0.1593)Trp;0.801,0.837,0.747,0.724,0.714,0.831,0.817,0.771,(-1.4147)+(0.0533)Ser+(-0.0055)Gly+(-0.0096)Ala+(0.0106)Pro+(-0.3197)Met+(0.0703)Ile;0.801,0.836,0.712,0.694,0.718,0.769,0.706,0.721,(-5.3774)+(0.0515)Ser+(0.0147)Thr+(-0.5009)Met+(-0.0211)Orn+(0.0614)Ile+(0.0972)Phe;0.801,0.834,0.778,0.771,0.756,0.802,0.827,0.789,(0.4529)+(-0.0071)Asn+(-0.3137)Met+(-0.0012)Lys+(0.1730)Ile+(-0.0951)Leu+(0.1054)Phe;0.801,0.827,0.760,0.756,0.710,0.831,0.824,0.780,(5.9164)+(-0.1113)Asn+(-0.0171)Arg+(-0.0280)Tyr+(-0.0579)Val+(0.0410)Orn+(0.1693)Ile;0.801,0.839,0.714,0.700,0.733,0.778,0.662,0.719,(-4.7973)+(0.0515)Ser+(0.0169)Thr+(-0.0252)Arg+(-0.4754)Met+(0.0542)Ile+(0.0979)Phe;0.801,0.834,0.818,0.828,0.831,0.836,0.749,0.811,(5.7982)+(0.0046)Gln+(0.0125)Thr+(-0.0769)Cit+(-0.0051)Tyr+(-0.0041)Lys+(-0.1573)Trp;0.801,0.833,0.761,0.739,0.746,0.820,0.806,0.778,(3.7221)+(0.0081)Gln+(-0.1484)His+(-0.0264)Tyr+(0.0163)Orn+(-0.0066)Lys+(0.0492)Ile;0.801,0.831,0.811,0.811,0.821,0.829,0.779,0.810,(7.4152)+(-0.0358)Asn+(0.0044)Gly+(-0.0037)Ala+(-0.0730)Cit+(0.0224)Leu+(-0.1467)Trp;0.801,0.838,0.812,0.822,0.819,0.811,0.772,0.806,(4.8533)+(-0.0029)Gly+(0.0047)Gln+(0.0249)Thr+(-0.2204)Met+(0.0153)Leu+(-0.1555)Trp;0.801,0.833,0.792,0.800,0.786,0.837,0.750,0.793,(3.6878)+(0.0278)Ser+(0.0001)Thr+(-0.0044)Ala+(0.0204)Orn+(-0.0054)Lys+(-0.1396)Trp;0.801,0.831,0.779,0.764,0.774,0.820,0.801,0.790,(1.9729)+(0.0117)Gln+(-0.1687)His+(-0.0304)Cit+(-0.0189)Arg+(0.0007)Pro+(0.0803)Phe;0.801,0.829,0.733,0.707,0.750,0.832,0.698,0.747,(4.1251)+(0.0376)Ser+(-0.1369)His+(-0.0170)Arg+(0.0027)Val+(0.0283)Orn+(-0.0026)Lys;0.801,0.828,0.772,0.765,0.760,0.857,0.754,0.784,(3.3444)+(0.0295)Ser+(0.0069)Gln+(-0.1346)His+(-0.0021)Ala+(-0.0367)Cit+(-0.0024)Lys;0.801,0.827,0.76

6,0.757,0.755,0.854,0.746,0.778,(3.3300)+(0.0283)Ser+(0.0064)Gln+(-0.1378)His+(0.0038)Thr+(-0.0026)Ala+(-0.0387)Cit;0.801,0.836,0.790,0.787,0.792,0.812,0.779,0.793,(3.7126)+(0.0404)Ser+(-0.0088)Gly+(0.0002)Val+(0.0182)Orn+(-0.0085)Lys+(-0.1462)Trp;0.801,0.834,0.808,0.808,0.806,0.863,0.770,0.812,(5.0723)+(-0.0484)Asn+(0.0107)Gln+(-0.1237)His+(0.0242)Thr+(-0.0380)Cit+(-0.1367)Met;0.801,0.833,0.793,0.776,0.802,0.805,0.809,0.798,(8.1843)+(-0.0082)Asn+(-0.0960)His+(-0.0012)Arg+(0.0072)Lys+(0.0204)Leu+(-0.1144)Trp;0.801,0.832,0.804,0.818,0.811,0.827,0.736,0.798,(6.3172)+(0.0210)Thr+(-0.0023)Ala+(-0.1631)Met+(0.0184)Orn+(0.0021)Lys+(-0.1407)Trp;0.801,0.832,0.799,0.800,0.749,0.870,0.851,0.818,(5.3408)+(-0.0391)Asn+(-0.0098)Ala+(-0.0763)Cit+(-0.0246)Tyr+(0.1774)Ile+(-0.0796)Leu;0.801,0.837,0.790,0.782,0.782,0.816,0.810,0.797,(3.5218)+(0.0428)Ser+(-0.0074)Gly+(-0.0044)Ala+(-0.0088)Lys+(0.0205)Leu+(-0.1493)Trp;0.801,0.832,0.811,0.824,0.802,0.834,0.782,0.810,(7.4387)+(-0.0778)Asn+(0.0182)Thr+(-0.0055)Ala+(0.0097)Pro+(-0.0025)Val+(-0.1335)Trp;0.801,0.837,0.783,0.757,0.772,0.842,0.833,0.801,(6.2697)+(-0.0799)His+(-0.0425)Cit+(0.0058)Arg+(-0.1504)Met+(0.1365)Ile+(-0.0518)Leu;0.801,0.830,0.766,0.759,0.710,0.826,0.857,0.788,(3.3311)+(-0.1639)Asn+(0.0042)Gly+(-0.0607)Val+(-0.0005)Lys+(0.1645)Ile+(0.0668)Phe;0.801,0.826,0.747,0.742,0.663,0.854,0.860,0.780,(0.3372)+(0.0292)Ser+(-0.0138)Thr+(-0.0107)Ala+(-0.0370)Val+(0.1996)Ile+(-0.0401)Leu;0.801,0.837,0.744,0.709,0.755,0.828,0.753,0.761,(3.4355)+(0.0519)Ser+(-0.0032)Gly+(-0.1307)His+(-0.1530)Met+(-0.0019)Lys+(0.0302)Leu;0.801,0.834,0.745,0.723,0.753,0.836,0.720,0.758,(4.5463)+(0.0391)Ser+(-0.0643)Asn+(-0.1232)His+(-0.0127)Tyr+(0.0021)Val+(0.0300)Orn;0.801,0.832,0.796,0.779,0.793,0.824,0.826,0.806,(8.5058)+(-0.0030)Asn+(-0.0870)His+(-0.0016)Ala+(-0.0162)Val+(0.0513)Leu+(-0.1068)Trp;0.801,0.832,0.769,0.746,0.755,0.838,0.812,0.788,(5.6054)+(0.0056)Gly+(-0.1156)His+(-0.005

0)Ala+(-0.1521)Met+(0.0050)Lys+(0.0728)Ile;0.801,0.832,0.800,0.784,0.805,0.822,0.817,0.807,(8.4004)+(0.0134)Asn+(-0.0905)His+(-0.0015)Ala+(-0.0415)Met+(0.0274)Leu+(-0.1076)Trp;0.801,0.830,0.738,0.714,0.737,0.836,0.731,0.754,(3.9760)+(0.0342)Ser+(-0.1377)His+(-0.0033)Ala+(-0.0123)Tyr+(0.0054)Val+(0.0263)Orn;0.801,0.828,0.760,0.758,0.704,0.833,0.831,0.781,(5.4570)+(-0.1336)Asn+(0.0011)Gly+(-0.0289)Tyr+(-0.0564)Val+(0.0348)Orn+(0.1652)Ile;0.801,0.835,0.799,0.791,0.812,0.834,0.763,0.800,(7.8778)+(0.0044)Gly+(-0.0832)His+(-0.0383)Cit+(0.0181)Tyr+(0.0087)Lys+(-0.1131)Trp;0.801,0.834,0.794,0.803,0.787,0.837,0.753,0.795,(3.5739)+(0.0273)Ser+(0.0005)Gln+(-0.0044)Ala+(0.0201)Orn+(-0.0056)Lys+(-0.1401)Trp;0.801,0.831,0.776,0.769,0.721,0.825,0.872,0.797,(4.0047)+(-0.1337)Asn+(-0.0148)Arg+(-0.0621)Val+(0.0018)Lys+(0.1669)Ile+(0.0659)Phe;0.801,0.836,0.807,0.803,0.793,0.821,0.834,0.813,(6.7955)+(-0.0047)Ala+(0.0128)Pro+(-0.0272)Val+(-0.1333)Met+(0.0590)Leu+(-0.1262)Trp;0.801,0.834,0.772,0.782,0.781,0.808,0.704,0.769,(3.3823)+(0.0302)Ser+(0.0009)Gln+(0.0014)Thr+(-0.0232)Arg+(0.0066)Pro+(-0.1528)Trp;0.801,0.827,0.798,0.794,0.778,0.849,0.810,0.808,(4.9006)+(-0.0746)Asn+(0.0099)Gln+(-0.1355)His+(0.0127)Thr+(-0.0044)Ala+(0.0072)Pro;0.801,0.836,0.781,0.757,0.771,0.835,0.825,0.797,(6.0796)+(-0.0841)His+(-0.0369)Cit+(-0.1662)Met+(0.0086)Lys+(0.1394)Ile+(-0.0566)Leu;0.801,0.842,0.814,0.826,0.822,0.775,0.792,0.804,(3.8083)+(0.0009)Gly+(-0.0182)Arg+(-0.0071)Val+(0.0025)Lys+(0.0909)Phe+(-0.1612)Trp;0.801,0.834,0.794,0.777,0.791,0.823,0.827,0.804,(8.3363)+(-0.0893)His+(-0.0017)Ala+(0.0031)Arg+(-0.0159)Val+(0.0512)Leu+(-0.1079)Trp;0.801,0.834,0.803,0.804,0.796,0.852,0.780,0.808,(4.7774)+(-0.0433)Asn+(0.0102)Gln+(-0.1336)His+(0.0229)Thr+(0.0063)Tyr+(-0.1522)Met;0.801,0.828,0.760,0.744,0.752,0.815,0.780,0.773,(1.8535)+(0.0033)Gly+(0.0087)Gln+(-0.1646)His+(-0.0451)Cit+(-0.0028)Val+(0.0858)Phe;0.801,0.838,0.848,0.853,0.858,0.856,0.

812,0.845,(5.2374)+(0.0073)Gln+(-0.0668)Cit+(0.0001)Arg+(0.0253)Tyr+(-0.1322)Met+(-0.1461)Trp;0.801,0.838,0.743,0.706,0.761,0.835,0.737,0.760,(3.1934)+(0.0493)Ser+(-0.1337)His+(-0.0054)Arg+(0.0148)Tyr+(-0.1785)Met+(0.0294)Leu;0.801,0.834,0.783,0.766,0.786,0.814,0.803,0.792,(4.0590)+(-0.1226)His+(-0.0090)Val+(-0.1929)Met+(0.0267)Orn+(0.0075)Lys+(0.1188)Phe;0.801,0.832,0.795,0.778,0.788,0.850,0.817,0.808,(3.8105)+(0.0102)Gln+(-0.1461)His+(-0.0025)Ala+(-0.1282)Met+(0.0199)Orn+(0.0197)Leu;0.801,0.831,0.777,0.739,0.783,0.848,0.819,0.797,(6.5018)+(-0.1000)His+(-0.0071)Ala+(-0.0694)Cit+(-0.1054)Met+(0.0441)Orn+(0.0617)Ile;0.801,0.833,0.747,0.708,0.770,0.828,0.741,0.762,(5.4081)+(0.0068)Gly+(-0.1133)His+(-0.0662)Cit+(-0.1519)Met+(0.0367)Orn+(0.0588)Ile;0.801,0.831,0.728,0.696,0.741,0.829,0.714,0.745,(3.8510)+(0.0357)Ser+(-0.1414)His+(0.0003)Thr+(0.0039)Val+(0.0248)Orn+(-0.0066)Lys;0.801,0.838,0.816,0.814,0.807,0.815,0.841,0.819,(4.3604)+(-0.0794)Asn+(0.0057)Gln+(-0.0012)Pro+(-0.0038)Lys+(0.0518)Ile+(-0.1574)Trp;0.801,0.833,0.795,0.775,0.806,0.810,0.814,0.801,(8.1045)+(-0.0097)Asn+(-0.0973)His+(0.0071)Tyr+(0.0063)Lys+(0.0202)Leu+(-0.1166)Trp;0.801,0.833,0.789,0.775,0.766,0.839,0.836,0.804,(2.4175)+(0.0095)Gln+(-0.1538)His+(-0.0066)Ala+(-0.0486)Cit+(0.0058)Pro+(0.0824)Phe;0.801,0.842,0.755,0.741,0.723,0.845,0.796,0.776,(-0.1692)+(0.0503)Ser+(-0.0067)Gly+(-0.2920)Met+(-0.0036)Lys+(0.1702)Ile+(-0.0737)Leu;0.801,0.840,0.813,0.831,0.811,0.764,0.807,0.803,(4.6860)+(-0.0641)Asn+(-0.0277)Tyr+(0.0033)Lys+(-0.0028)Leu+(0.0928)Phe+(-0.1470)Trp;0.801,0.834,0.778,0.772,0.755,0.801,0.827,0.789,(0.3946)+(-0.0075)Asn+(-0.3159)Met+(-0.0019)Orn+(0.1739)Ile+(-0.0958)Leu+(0.1061)Phe;0.801,0.836,0.810,0.812,0.798,0.813,0.830,0.813,(4.5195)+(-0.0753)Asn+(0.0057)Gln+(-0.0149)Tyr+(-0.0030)Lys+(0.0520)Ile+(-0.1527)Trp;0.801,0.834,0.798,0.803,0.816,0.808,0.742,0.792,(6.5360)+(-0.0433)Asn+(0.025

2)Thr+(-0.1661)Met+(0.0124)Orn+(0.0136)Leu+(-0.1462)Trp;0.801,0.832,0.782,0.763,0.787,0.817,0.799,0.791,(4.2922)+(0.0043)Asn+(-0.1189)His+(-0.0074)Val+(-0.1775)Met+(0.0293)Orn+(0.1161)Phe;0.801,0.828,0.748,0.721,0.750,0.830,0.754,0.764,(4.4515)+(0.0481)Ser+(-0.0636)Asn+(-0.0040)Gly+(-0.1203)His+(0.0076)Pro+(-0.0001)Lys;0.801,0.837,0.745,0.706,0.767,0.835,0.736,0.761,(3.2968)+(0.0490)Ser+(-0.1280)His+(-0.0301)Cit+(0.0158)Tyr+(-0.1857)Met+(0.0300)Leu;0.801,0.835,0.815,0.816,0.811,0.818,0.822,0.817,(4.3632)+(-0.0744)Asn+(0.0061)Gln+(-0.0156)Arg+(0.0070)Orn+(0.0473)Ile+(-0.1587)Trp;0.801,0.834,0.803,0.804,0.821,0.822,0.750,0.799,(7.1207)+(0.0034)Gly+(-0.0706)Cit+(0.0067)Arg+(0.0111)Pro+(-0.0996)Met+(-0.1364)Trp;0.801,0.830,0.764,0.730,0.760,0.841,0.808,0.785,(6.4065)+(-0.1078)His+(-0.0076)Ala+(-0.0748)Cit+(-0.0227)Tyr+(0.0483)Orn+(0.0571)Ile;0.801,0.826,0.787,0.770,0.786,0.835,0.799,0.798,(4.3653)+(-0.0851)Asn+(0.0112)Gln+(-0.1470)His+(0.0150)Thr+(-0.0424)Cit+(0.0148)Leu;0.801,0.827,0.801,0.790,0.784,0.851,0.828,0.813,(4.1534)+(-0.0573)Asn+(0.0015)Gly+(0.0110)Gln+(-0.1464)His+(-0.0034)Ala+(0.0171)Leu;0.801,0.835,0.828,0.844,0.820,0.831,0.801,0.824,(5.5029)+(-0.0968)Asn+(0.0055)Gln+(0.0053)Pro+(-0.0063)Val+(0.0206)Orn+(-0.1308)Trp;0.801,0.834,0.795,0.804,0.796,0.838,0.735,0.793,(3.9994)+(0.0296)Ser+(-0.0041)Ala+(-0.0203)Arg+(0.0008)Tyr+(0.0240)Orn+(-0.1409)Trp;0.801,0.832,0.814,0.816,0.831,0.807,0.782,0.809,(7.7066)+(-0.0314)Asn+(-0.0589)Cit+(0.0105)Pro+(-0.0922)Met+(0.0096)Lys+(-0.1401)Trp;0.801,0.835,0.728,0.682,0.735,0.793,0.790,0.750,(4.2880)+(-0.1538)His+(0.0155)Thr+(0.0141)Orn+(-0.0131)Lys+(0.0332)Ile+(0.0569)Phe;0.801,0.834,0.806,0.805,0.813,0.823,0.784,0.806,(7.5274)+(-0.0528)Asn+(0.0043)Gly+(-0.0646)Cit+(-0.0194)Val+(0.0492)Leu+(-0.1428)Trp;0.801,0.831,0.743,0.705,0.769,0.844,0.717,0.759,(4.5577)+(0.0394)Ser+(-0.0031)Gly+(-0.1221)His+(-0.0646)Cit+(0.0487)Orn+(-0.0089)Lys;0.801,0.825,0.740,0.716,

0.705,0.816,0.821,0.765,(5.1712)+(0.0020)Gly+(-0.0983)His+(-0.0320)Val+(-0.0026)Lys+(0.1332)Ile+(-0.0071)Leu;0.801,0.839,0.808,0.825,0.811,0.768,0.785,0.798,(4.8489)+(-0.0545)Asn+(-0.0107)Arg+(-0.0278)Tyr+(0.0179)Orn+(0.0858)Phe+(-0.1448)Trp;0.801,0.837,0.770,0.764,0.749,0.801,0.807,0.780,(-0.2156)+(0.0032)Gly+(-0.3337)Met+(-0.0020)Lys+(0.1751)Ile+(-0.0950)Leu+(0.1090)Phe;0.801,0.830,0.746,0.743,0.729,0.788,0.763,0.756,(4.5193)+(-0.1424)His+(0.0221)Thr+(-0.0026)Ala+(-0.0496)Tyr+(-0.0033)Val+(0.1105)Phe;0.801,0.829,0.741,0.718,0.752,0.833,0.710,0.753,(4.7239)+(0.0417)Ser+(-0.0727)Asn+(-0.1166)His+(0.0073)Thr+(-0.0343)Cit+(0.0072)Pro;0.801,0.827,0.729,0.715,0.673,0.812,0.826,0.756,(-0.4296)+(0.0387)Ser+(-0.0077)Gly+(-0.0423)Arg+(-0.0606)Val+(0.1636)Ile+(0.0430)Phe;0.801,0.826,0.767,0.764,0.716,0.841,0.824,0.786,(5.6795)+(-0.1131)Asn+(0.0045)Gly+(-0.0548)Cit+(-0.0187)Tyr+(-0.0512)Val+(0.1669)Ile;0.801,0.836,0.816,0.817,0.809,0.818,0.827,0.817,(4.3062)+(-0.0743)Asn+(0.0005)Gly+(0.0063)Gln+(-0.0145)Arg+(0.0499)Ile+(-0.1590)Trp;0.801,0.826,0.759,0.733,0.736,0.838,0.821,0.782,(5.5747)+(-0.0226)Asn+(0.0048)Gly+(-0.1204)His+(-0.0073)Ala+(0.0042)Pro+(0.0571)Ile;0.801,0.826,0.721,0.686,0.723,0.808,0.749,0.741,(3.5287)+(0.0457)Ser+(-0.0049)Gly+(-0.1415)His+(0.0057)Pro+(-0.0255)Tyr+(0.0182)Leu;0.801,0.834,0.830,0.846,0.820,0.843,0.797,0.826,(5.6945)+(-0.1013)Asn+(0.0053)Gln+(0.0147)Thr+(-0.0043)Ala+(0.0159)Orn+(-0.1411)Trp;0.801,0.833,0.811,0.820,0.827,0.821,0.744,0.803,(6.8081)+(-0.0019)Gly+(0.0260)Thr+(0.0157)Tyr+(-0.0001)Val+(-0.1914)Met+(-0.1466)Trp;0.801,0.833,0.778,0.783,0.761,0.806,0.780,0.783,(-2.0806)+(0.0598)Ser+(-0.0918)Asn+(-0.0049)Gly+(-0.0032)Ala+(-0.2780)Met+(0.1082)Phe;0.801,0.833,0.772,0.751,0.756,0.828,0.820,0.789,(5.8521)+(0.0341)Asn+(-0.0929)His+(-0.0037)Arg+(-0.1794)Met+(0.1373)Ile+(-0.0510)Leu;0.801,0.839,0.752,0.744,0.730,0.853,0.742,0.767,(0.5314)+(0.0464)Ser+(-0.0376)Asn+(-0.0213)Arg+(-0

.2327)Met+(0.1766)Ile+(-0.0793)Leu;0.801,0.838,0.753,0.726,0.738,0.80
8,0.816,0.772,(4.0228)+(-0.1091)His+(-0.0416)Cit+(-0.0096)Arg+(0.1190
)Ile+(-0.0646)Leu+(0.0810)Phe;0.801,0.836,0.786,0.781,0.784,0.843,0.7
61,0.792,(4.4171)+(0.0084)Gln+(-0.1402)His+(0.0193)Thr+(-0.1725)Met+(
0.0198)Orn+(0.0014)Lys;0.801,0.833,0.786,0.765,0.788,0.821,0.813,0.79
7,(4.3429)+(-0.1265)His+(-0.0027)Ala+(-0.1762)Met+(0.0238)Orn+(0.0048
)Lys+(0.1060)Phe;0.801,0.832,0.742,0.735,0.725,0.788,0.765,0.753,(4.5
488)+(-0.1470)His+(0.0221)Thr+(-0.0032)Ala+(-0.0507)Tyr+(0.0040)Leu+(
0.1015)Phe;0.801,0.827,0.770,0.765,0.767,0.850,0.733,0.779,(3.0580)+(
0.0309)Ser+(0.0082)Gln+(-0.1436)His+(-0.0210)Cit+(-0.0192)Arg+(0.0005
)Lys;0.801,0.825,0.742,0.722,0.710,0.819,0.805,0.764,(5.5984)+(0.0028
)Gly+(-0.0883)His+(-0.0393)Cit+(-0.0189)Tyr+(-0.0329)Val+(0.1325)Ile;
0.801,0.845,0.766,0.760,0.745,0.796,0.805,0.777,(-0.5340)+(0.0167)Thr
+(0.0001)Pro+(-0.3875)Met+(0.1708)Ile+(-0.0940)Leu+(0.1113)Phe;0.801,
0.833,0.792,0.788,0.772,0.819,0.822,0.800,(5.5500)+(-0.0075)Ala+(0.00
95)Pro+(-0.0279)Val+(0.0219)Orn+(0.0527)Leu+(-0.1441)Trp;0.801,0.832,
0.806,0.801,0.820,0.825,0.774,0.805,(6.8615)+(0.0181)Thr+(-0.0055)Ala
+(-0.0761)Cit+(-0.0037)Arg+(0.0213)Leu+(-0.1660)Trp;0.801,0.831,0.813
,0.817,0.826,0.824,0.769,0.809,(5.3305)+(0.0009)Gly+(0.0051)Gln+(-0.0
827)Cit+(0.0077)Pro+(-0.0022)Lys+(-0.1590)Trp;0.801,0.830,0.794,0.787
,0.741,0.861,0.872,0.815,(4.2388)+(-0.1482)Asn+(0.0066)Gln+(-0.0608)C
it+(-0.0523)Val+(-0.0024)Lys+(0.1628)Ile;0.801,0.827,0.751,0.728,0.75
4,0.833,0.748,0.766,(4.7294)+(0.0449)Ser+(-0.0640)Asn+(-0.0041)Gly+(-
0.1258)His+(0.0079)Thr+(0.0028)Val;0.801,0.835,0.789,0.782,0.790,0.79
8,0.802,0.793,(5.7081)+(-0.0804)Asn+(0.0001)Gly+(0.0142)Thr+(-0.0019)
Pro+(0.0493)Ile+(-0.1605)Trp;0.801,0.830,0.755,0.756,0.703,0.854,0.78
9,0.775,(0.4676)+(0.0322)Ser+(-0.0110)Ala+(-0.0384)Arg+(0.0095)Orn+(0
.1914)Ile+(-0.0958)Leu;0.801,0.836,0.780,0.776,0.779,0.794,0.783,0.78

3,(3.4568)+(0.0387)Ser+(-0.0085)Gly+(-0.0001)Gln+(0.0060)Pro+(-0.0022)Val+(-0.1542)Trp;0.801,0.834,0.789,0.787,0.791,0.803,0.781,0.790,(3.5393)+(0.0369)Ser+(-0.0084)Gly+(-0.0002)Gln+(-0.0019)Val+(0.0144)Orn+(-0.1524)Trp;0.801,0.830,0.795,0.797,0.800,0.819,0.767,0.795,(8.0970)+(0.0030)Gly+(-0.0893)His+(-0.0007)Ala+(-0.0081)Arg+(0.0132)Lys+(-0.1025)Trp;0.801,0.830,0.806,0.811,0.805,0.834,0.772,0.806,(8.6515)+(-0.0119)Asn+(0.0030)Gly+(-0.0775)His+(0.0000)Ala+(0.0012)Arg+(-0.0934)Trp;0.801,0.839,0.763,0.766,0.761,0.777,0.750,0.763,(0.3295)+(0.0400)Thr+(-0.0163)Tyr+(-0.0526)Val+(-0.4485)Met+(0.0750)Leu+(0.1280)Phe;0.801,0.833,0.767,0.762,0.756,0.796,0.784,0.774,(5.1141)+(-0.0411)Asn+(-0.1176)His+(-0.0410)Tyr+(-0.0084)Val+(0.0350)Orn+(0.1037)Phe;0.801,0.833,0.749,0.741,0.742,0.789,0.754,0.756,(4.4699)+(-0.0406)Asn+(0.0044)Gly+(-0.1329)His+(-0.0413)Tyr+(0.0269)Orn+(0.0965)Phe;0.801,0.829,0.755,0.736,0.743,0.788,0.807,0.768,(5.1088)+(-0.0163)Asn+(-0.1245)His+(-0.0366)Cit+(-0.0488)Tyr+(0.0406)Ile+(0.0841)Phe;0.801,0.829,0.772,0.755,0.761,0.817,0.806,0.785,(2.1797)+(0.0095)Gln+(-0.1635)His+(-0.0406)Cit+(0.0009)Pro+(-0.0035)Val+(0.0815)Phe;0.801,0.832,0.742,0.718,0.752,0.838,0.719,0.756,(4.4716)+(0.0383)Ser+(-0.0724)Asn+(-0.1261)His+(0.0037)Thr+(0.0007)Val+(0.0264)Orn;0.801,0.832,0.752,0.724,0.769,0.856,0.713,0.766,(4.5865)+(0.0348)Ser+(-0.1184)His+(-0.0043)Ala+(-0.0660)Cit+(-0.0082)Arg+(0.0501)Orn;0.801,0.826,0.731,0.690,0.745,0.824,0.746,0.751,(3.7715)+(0.0475)Ser+(-0.0032)Gly+(-0.1380)His+(-0.0278)Cit+(-0.0097)Lys+(0.0249)Leu;0.801,0.825,0.755,0.726,0.749,0.822,0.793,0.773,(2.8804)+(0.0026)Gly+(0.0088)Gln+(-0.1534)His+(-0.0494)Cit+(-0.0030)Pro+(0.0529)Ile;0.801,0.835,0.809,0.803,0.824,0.846,0.768,0.810,(8.6157)+(-0.0205)Asn+(0.0053)Gly+(-0.0718)His+(-0.0421)Cit+(0.0272)Tyr+(-0.1082)Trp;0.801,0.833,0.799,0.806,0.816,0.802,0.746,0.792,(6.6564)+(-0.0431)Asn+(0.0269)Thr+(-0.1706)Met+(0.0022)Lys+(0.0153)Leu+(-0.

1489)Trp;0.801,0.832,0.771,0.737,0.764,0.837,0.829,0.792,(5.7928)+(0.0291)Asn+(-0.1173)His+(-0.0052)Ala+(-0.1555)Met+(0.0240)Orn+(0.0665)Ile;0.801,0.826,0.732,0.696,0.735,0.840,0.740,0.753,(3.6727)+(0.0390)Ser+(-0.1403)His+(0.0067)Thr+(-0.0052)Ala+(-0.0401)Cit+(0.0254)Leu;0.801,0.825,0.750,0.732,0.714,0.821,0.822,0.772,(6.0726)+(-0.0840)His+(-0.0346)Cit+(-0.0202)Tyr+(-0.0342)Val+(-0.0008)Lys+(0.1350)Ile;0.801,0.835,0.810,0.808,0.833,0.831,0.754,0.806,(7.0493)+(0.0040)Gly+(-0.0689)Cit+(0.0102)Pro+(0.0209)Tyr+(-0.1199)Met+(-0.1407)Trp;0.801,0.835,0.845,0.860,0.846,0.856,0.796,0.839,(5.5108)+(0.0072)Gln+(-0.0013)Ala+(-0.0650)Cit+(0.0014)Arg+(-0.0842)Met+(-0.1376)Trp;0.801,0.834,0.812,0.810,0.788,0.831,0.851,0.820,(4.1923)+(0.0048)Gln+(-0.0081)Ala+(-0.0144)Arg+(-0.0046)Lys+(0.0704)Ile+(-0.1568)Trp;0.801,0.829,0.735,0.711,0.752,0.834,0.693,0.748,(4.3712)+(0.0351)Ser+(-0.1352)His+(0.0044)Thr+(-0.0189)Arg+(0.0289)Orn+(-0.0020)Lys;0.801,0.828,0.802,0.795,0.809,0.816,0.800,0.805,(8.3575)+(-0.0920)His+(-0.0017)Ala+(-0.0041)Arg+(0.0067)Val+(0.0105)Lys+(-0.1096)Trp;0.801,0.832,0.815,0.816,0.818,0.830,0.799,0.816,(7.3953)+(-0.0065)Ala+(-0.0720)Cit+(0.0011)Arg+(0.0141)Pro+(0.0034)Lys+(-0.1426)Trp;0.801,0.831,0.818,0.816,0.833,0.822,0.787,0.814,(7.9731)+(-0.0289)Asn+(-0.0653)Cit+(0.0090)Arg+(0.0104)Pro+(-0.0704)Met+(-0.1341)Trp;0.801,0.833,0.761,0.741,0.736,0.834,0.814,0.781,(-0.7642)+(0.0558)Ser+(-0.0532)Asn+(-0.0047)Gly+(-0.0068)Ala+(-0.2585)Met+(0.0742)Ile;0.801,0.837,0.778,0.756,0.764,0.830,0.829,0.795,(5.7862)+(-0.0941)His+(0.0008)Pro+(-0.1765)Met+(0.0089)Lys+(0.1335)Ile+(-0.0538)Leu;0.801,0.835,0.756,0.744,0.767,0.848,0.700,0.765,(4.3150)+(0.0363)Ser+(-0.1223)His+(0.0167)Thr+(0.0156)Tyr+(-0.1980)Met+(0.0045)Lys;0.801,0.831,0.817,0.827,0.831,0.825,0.758,0.810,(5.6930)+(-0.0010)Gly+(0.0044)Gln+(0.0116)Thr+(-0.0754)Cit+(-0.0079)Tyr+(-0.1597)Trp;0.801,0.830,0.778,0.746,0.763,0.840,0.850,0.800,(5.1574)+(-0.0163)A

sn+(-0.1174)His+(-0.0081)Ala+(-0.0477)Cit+(0.0499)Ile+(0.0629)Phe;0.801,0.828,0.751,0.727,0.740,0.852,0.765,0.771,(4.2812)+(0.0436)Ser+(-0.0034)Gly+(-0.1179)His+(-0.0062)Ala+(-0.0328)Cit+(0.0126)Pro;0.801,0.842,0.787,0.777,0.796,0.764,0.814,0.788,(3.8345)+(-0.0161)Arg+(0.0045)Orn+(-0.0073)Lys+(0.0454)Ile+(0.0573)Phe+(-0.1741)Trp;0.801,0.837,0.737,0.738,0.778,0.794,0.612,0.730,(-2.2719)+(0.0457)Ser+(0.0228)Thr+(-0.0898)Cit+(-0.4031)Met+(-0.0139)Lys+(0.1334)Phe;0.801,0.837,0.800,0.783,0.803,0.818,0.825,0.807,(8.1922)+(-0.0856)His+(-0.0173)Val+(-0.0811)Met+(0.0103)Lys+(0.0500)L

eu+(-0.1072)Trp;0.801,0.837,0.780,0.773,0.791,0.754,0.797,0.779,(3.3883)+(0.0012)Gly+(-0.0206)Arg+(0.0015)Orn+(0.0424)Ile+(0.0559)Phe+(-0.1804)Trp;0.801,0.833,0.807,0.799,0.795,0.822,0.843,0.815,(5.8783)+(-0.0054)Ala+(-0.0019)Arg+(-0.1315)Met+(0.0019)Lys+(0.0734)Ile+(-0.1410)Trp;0.801,0.832,0.790,0.784,0.818,0.799,0.743,0.786,(6.5680)+(0.0139)Thr+(-0.0775)Cit+(-0.0073)Arg+(0.0053)Pro+(0.0124)Leu+(-0.1723)Trp;0.801,0.832,0.726,0.697,0.731,0.823,0.722,0.743,(4.2373)+(0.0415)Ser+(-0.0699)Asn+(-0.1377)His+(0.0104)Thr+(-0.0169)Tyr+(0.0225)Leu;0.801,0.828,0.770,0.758,0.722,0.847,0.844,0.793,(5.7826)+(-0.1491)Asn+(0.0189)Thr+(-0.0531)Cit+(-0.0020)Pro+(-0.0562)Val+(0.1715)Ile;0.801,0.826,0.751,0.728,0.756,0.834,0.740,0.765,(4.6560)+(0.0494)Ser+(-0.0537)Asn+(-0.0038)Gly+(-0.1182)His+(-0.0122)Arg+(0.0083)Pro;0.801,0.842,0.827,0.840,0.822,0.798,0.824,0.821,(4.1408)+(-0.0049)Ala+(-0.0161)Arg+(-0.0047)Val+(0.0035)Lys+(0.0949)Phe+(-0.1554)Trp;0.801,0.828,0.768,0.753,0.724,0.848,0.842,0.792,(5.9397)+(-0.1403)Asn+(0.0200)Thr+(-0.0542)Cit+(-0.0553)Val+(-0.0056)Lys+(0.1708)Ile;0.801,0.827,0.773,0.748,0.765,0.834,0.809,0.789,(3.0995)+(0.0111)Gln+(-0.1544)His+(-0.0359)Cit+(-0.0148)Arg+(-0.0022)Pro+(0.0506)Ile;0.801,0.825,0.757,0.751,0.710,0.835,0.814,0.778,(5.4812)+(-0.1452)Asn+(0.0022)Gly+(0.0215)Thr+(-0.0222

)Arg+(-0.0606)Val+(0.1776)Ile;0.801,0.837,0.791,0.794,0.810,0.799,0.740,0.786,(5.8624)+(0.0244)Thr+(0.0062)Pro+(0.0086)Tyr+(-0.2284)Met+(0.0134)Leu+(-0.1515)Trp;0.801,0.833,0.808,0.808,0.820,0.810,0.781,0.805,(5.1188)+(0.0051)Gln+(-0.0837)Cit+(0.0067)Pro+(-0.0119)Tyr+(0.0122)Leu+(-0.1675)Trp;0.801,0.833,0.813,0.806,0.819,0.850,0.789,0.816,(8.2657)+(0.0041)Gly+(-0.0814)His+(-0.0007)Ala+(0.0342)Tyr+(-0.0629)Met+(-0.1009)Trp;0.801,0.832,0.812,0.811,0.827,0.810,0.784,0.808,(5.0684)+(0.0053)Gln+(-0.0822)Cit+(-0.0058)Arg+(0.0060)Pro+(0.0114)Leu+(-0.1704)Trp;0.801,0.829,0.797,0.781,0.784,0.851,0.829,0.811,(4.2650)+(-0.0573)Asn+(0.0103)Gln+(-0.1457)His+(-0.0039)Ala+(0.0203)Orn+(0.0135)Leu;0.801,0.836,0.768,0.771,0.773,0.805,0.720,0.768,(3.1262)+(0.0285)Ser+(0.0048)Pro+(-0.0014)Val+(0.0131)Orn+(-0.0076)Lys+(-0.1474)Trp;0.801,0.833,0.821,0.820,0.835,0.824,0.794,0.818,(5.2074)+(0.0058)Gln+(-0.0836)Cit+(0.0006)Arg+(-0.0062)Lys+(0.0180)Leu+(-0.1662)Trp;0.801,0.829,0.742,0.713,0.756,0.835,0.727,0.758,(4.2350)+(0.0424)Ser+(-0.0042)Gly+(-0.1353)His+(-0.0176)Arg+(0.0012)Val+(0.0281)Orn;0.801,0.837,0.764,0.759,0.757,0.802,0.762,0.770,(3.3721)+(0.0289)Ser+(-0.0008)Gln+(-0.0088)Tyr+(-0.0222)Val+(0.0472)Leu+(-0.1544)Trp;0.801,0.835,0.788,0.791,0.786,0.802,0.775,0.789,(3.7574)+(0.0379)Ser+(-0.0088)Gly+(-0.0007)Thr+(-0.0188)Tyr+(0.0175)Orn+(-0.1464)Trp;0.801,0.832,0.742,0.721,0.730,0.790,0.787,0.757,(4.7780)+(-0.1375)His+(-0.0096)Arg+(-0.0519)Tyr+(0.0248)Orn+(0.0342)Ile+(0.0759)Phe;0.801,0.834,0.754,0.773,0.752,0.802,0.674,0.750,(0.3905)+(0.0505)Ser+(-0.1416)Asn+(-0.0777)Cit+(-0.0563)Tyr+(-0.0122)Lys+(0.1115)Phe;0.801,0.826,0.743,0.719,0.707,0.818,0.826,0.768,(5.0998)+(0.0019)Gly+(-0.1000)His+(-0.0023)Pro+(-0.0312)Val+(0.1360)Ile+(-0.0097)Leu;0.801,0.844,0.804,0.811,0.819,0.760,0.789,0.795,(3.9044)+(-0.0182)Arg+(0.0040)Pro+(-0.0002)Lys+(-0.0031)Leu+(0.0789)Phe+(-0.1678)Trp;0.801,0.836,0.743,0.713,0.756,0.830,0.732,0.758,(

3.6204)+(0.0489)Ser+(-0.0176)Asn+(-0.1292)His+(-0.0047)Arg+(-0.1397)Met+(0.0292)Leu;0.801,0.829,0.737,0.715,0.743,0.830,0.718,0.751,(4.3623)+(0.0413)Ser+(-0.0703)Asn+(-0.1248)His+(0.0046)Thr+(0.0068)Pro+(0.0010)Val;0.801,0.827,0.742,0.728,0.735,0.844,0.722,0.757,(4.3684)+(0.0388)Ser+(-0.1250)His+(0.0050)Thr+(-0.0052)Ala+(-0.0175)Arg+(0.0115)Pro;0.801,0.827,0.753,0.736,0.716,0.831,0.820,0.776,(6.1705)+(-0.0589)Asn+(0.0040)Gly+(-0.0764)His+(-0.0087)Arg+(-0.0397)Val+(0.1428)Ile;0.801,0.826,0.724,0.685,0.737,0.818,0.733,0.743,(3.4837)+(0.0470)Ser+(-0.0036)Gly+(-0.1443)His+(-0.0151)Arg+(0.0046)Pro+(0.0157)Leu;0.801,0.826,0.743,0.724,0.704,0.815,0.822,0.766,(5.5300)+(0.0014)Gly+(-0.0956)His+(-0.0003)Pro+(-0.0196)Tyr+(-0.0334)Val+(0.1302)Ile;0.801,0.834,0.806,0.800,0.814,0.815,0.798,0.807,(8.3803)+(-0.0886)His+(-0.0023)Arg+(0.0063)Val+(-0.0617)Met+(0.0133)Lys+(-0.1086)Trp;0.801,0.833,0.768,0.740,0.747,0.828,0.846,0.790,(4.7990)+(-0.1301)His+(-0.0078)Ala+(-0.0078)Arg+(0.0036)Pro+(0.0425)Ile+(0.0576)Phe;0.801,0.831,0.784,0.762,0.788,0.822,0.809,0.795,(4.3061)+(0.0145)Asn+(-0.1257)His+(-0.0024)Ala+(-0.1775)Met+(0.0257)Orn+(0.1075)Phe;0.801,0.828,0.716,0.671,0.731,0.831,0.721,0.739,(3.3911)+(0.0351)Ser+(-0.1370)His+(-0.0556)Cit+(-0.0189)Val+(0.0390)Orn+(0.0414)Leu;0.801,0.827,0.757,0.745,0.760,0.844,0.724,0.768,(2.7241)+(0.0328)Ser+(0.0077)Gln+(-0.1465)His+(-0.0215)Cit+(-0.0205)Arg+(0.0065)Pro;0.801,0.839,0.753,0.744,0.729,0.843,0.766,0.770,(0.1391)+(0.0439)Ser+(-0.0528)Asn+(0.0000)Tyr+(-0.2580)Met+(0.1642)Ile+(-0.0724)Leu;0.801,0.835,0.798,0.791,0.777,0.817,0.846,0.808,(5.6048)+(-0.0089)Ala+(-0.0117)Arg+(0.0065)Pro+(-0.0042)Tyr+(0.0639)Ile+(-0.1505)Trp;0.801,0.834,0.740,0.717,0.774,0.830,0.666,0.747,(0.2492)+(0.0484)Ser+(-0.1520)Asn+(-0.1141)Cit+(0.0476)Orn+(-0.0229)Lys+(0.0732)Phe;0.801,0.832,0.770,0.746,0.756,0.840,0.813,0.789,(5.7577)+(0.0055)Gly+(-0.1117)His+(-0.0049)Ala+(0.0013)Arg+(-0.1409)Met+(0.0746)I

le;0.801,0.825,0.718,0.686,0.724,0.825,0.716,0.738,(3.8245)+(0.0376)Ser+(-0.1437)His+(0.0101)Thr+(-0.0171)Arg+(-0.0191)Val+(0.0469)Leu;0.801,0.837,0.748,0.757,0.759,0.792,0.672,0.745,(-2.3907)+(0.0504)Ser+(-0.0932)Asn+(0.0173)Thr+(-0.3378)Met+(-0.0091)Lys+(0.1167)Phe;0.801,0.838,0.775,0.764,0.779,0.785,0.787,0.779,(2.8652)+(0.0381)Ser+(-0.0084)Gly+(0.0034)Pro+(0.0069)Orn+(0.0055)Leu+(-0.1639)Trp;0.801,0.834,0.760,0.755,0.766,0.796,0.734,0.763,(2.6938)+(0.0328)Ser+(-0.0017)Thr+(0.0039)Pro+(-0.0096)Lys+(0.0136)Leu+(-0.1558)Trp;0.801,0.834,0.758,0.766,0.761,0.794,0.707,0.757,(3.3007)+(0.0272)Ser+(-0.0008)Gln+(0.0056)Pro+(-0.0195)Tyr+(0.0117)Orn+(-0.1494)Trp;0.801,0.834,0.801,0.812,0.823,0.821,0.712,0.792,(6.6491)+(0.0257)Thr+(-0.0164)Arg+(0.0138)Tyr+(-0.1844)Met+(0.0189)Orn+(-0.1436)Trp;0.801,0.832,0.780,0.756,0.778,0.804,0.827,0.791,(4.5800)+(-0.1070)His+(0.0082)Pro+(-0.0275)Val+(-0.2285)Met+(0.0443)Leu+(0.1153)Phe;0.801,0.831,0.740,0.734,0.719,0.785,0.766,0.751,(4.4642)+(-0.1416)His+(0.0203)Thr+(-0.0044)Ala+(0.0059)Pro+(-0.0522)Tyr+(0.1020)Phe;0.801,0.830,0.737,0.703,0.751,0.828,0.731,0.753,(4.1619)+(0.0470)Ser+(-0.0541)Asn+(-0.1282)His+(-0.0318)Cit+(-0.0055)Lys+(0.0243)Leu;0.801,0.830,0.749,0.721,0.733,0.820,0.807,0.770,(5.4935)+(-0.1210)His+(0.0099)Thr+(-0.0042)Pro+(-0.0036)Lys+(0.1078)Ile+(-0.0403)Leu;0.801,0.836,0.793,0.793,0.795,0.850,0.745,0.796,(4.5143)+(0.0110)Gln+(-0.1459)His+(0.0265)Thr+(-0.0208)Arg+(0.0053)Val+(-0.1689)Met;0.801,0.836,0.785,0.788,0.785,0.828,0.745,0.787,(3.4234)+(0.0313)Ser+(-0.0053)Ala+(-0.0200)Arg+(0.0191)Orn+(0.0143)Leu+(-0.1509)Trp;0.801,0.832,0.767,0.793,0.754,0.799,0.707,0.763,(0.6652)+(0.0499)Ser+(-0.1724)Asn+(-0.0650)Cit+(-0.0525)Tyr+(-0.0144)Val+(0.1318)Phe;0.801,0.828,0.735,0.712,0.742,0.782,0.747,0.746,(4.2894)+(-0.0730)Asn+(0.0051)Gly+(-0.1474)His+(0.0183)Thr+(-0.0014)Leu+(0.0871)Phe;0.801,0.827,0.770,0.767,0.765,0.848,0.733,0.778,(3.0411)+(0.0304)Ser+(0.0082)G

ln+(-0.1467)His+(-0.0232)Arg+(-0.0038)Tyr+(0.0019)Lys;0.801,0.840,0.820,0.830,0.818,0.796,0.816,0.815,(3.9278)+(0.0012)Gly+(-0.0056)Ala+(-0.0158)Arg+(0.0018)Lys+(0.0905)Phe+(-0.1597)Trp;0.801,0.840,0.745,0.762,0.740,0.791,0.677,0.743,(-2.9041)+(0.0499)Ser+(-0.0191)Arg+(0.0143)Pro+(-0.0167)Val+(-0.3829)Met+(0.1365)Phe;0.801,0.831,0.725,0.688,0.729,0.815,0.748,0.745,(3.6591)+(0.0427)Ser+(-0.0051)Gly+(-0.1448)His+(-0.0262)Tyr+(0.0233)Orn+(0.0180)Leu;0.801,0.831,0.743,0.714,0.756,0.839,0.724,0.758,(4.3954)+(0.0409)Ser+(-0.0044)Gly+(-0.1353)His+(0.0040)Thr+(-0.0191)Arg+(0.0277)Orn;0.801,0.829,0.756,0.759,0.702,0.854,0.793,0.777,(0.4349)+(0.0330)Ser+(0.0001)Gln+(-0.0109)Ala+(-0.0368)Arg+(0.1930)Ile+(-0.0948)Leu;0.801,0.823,0.722,0.713,0.675,0.826,0.769,0.746,(1.0271)+(0.0321)Ser+(-0.0339)Arg+(-0.0432)Val+(-0.0104)Lys+(0.1932)Ile+(-0.0350)Leu;0.801,0.835,0.809,0.813,0.816,0.843,0.762,0.808,(8.8051)+(-0.0193)Asn+(0.0043)Gly+(-0.0651)His+(-0.0426)Cit+(0.0079)Arg+(-0.0991)Trp;0.801,0.831,0.806,0.812,0.806,0.834,0.770,0.806,(8.6825)+(-0.0088)Asn+(0.0030)Gly+(-0.0766)His+(0.0002)Ala+(-0.0095)Met+(-0.0927)Trp;0.801,0.836,0.793,0.810,0.792,0.747,0.783,0.783,(3.6516)+(-0.0010)Gly+(-0.0367)Tyr+(0.0114)Orn+(-0.0029)Leu+(0.0855)Phe+(-0.1566)Trp;0.801,0.828,0.749,0.728,0.746,0.812,0.767,0.763,(1.8362)+(0.0031)Gly+(0.0081)Gln+(-0.1710)His+(0.0069)Thr+(-0.0477)Cit+(0.0795)Phe;0.801,0.828,0.802,0.784,0.812,0.827,0.811,0.808,(8.7483)+(0.0073)Asn+(-0.0800)His+(-0.0024)Ala+(-0.0380)Cit+(0.0280)Leu+(-0.1158)Trp;0.801,0.825,0.714,0.678,0.730,0.819,0.700,0.732,(3.4243)+(0.0406)Ser+(-0.1484)His+(0.0048)Thr+(-0.0177)Arg+(0.0041)Pro+(0.0165)Leu;0.801,0.834,0.809,0.800,0.829,0.809,0.794,0.808,(7.0825)+(-0.0707)Cit+(0.0085)Arg+(0.0086)Pro+(-0.1098)Met+(0.0160)Leu+(-0.1490)Trp;0.801,0.825,0.740,0.704,0.740,0.836,0.768,0.762,(3.7049)+(0.0445)Ser+(-0.0025)Gly+(-0.1364)His+(-0.0047)Ala+(-0.0324)Cit+(0.0250)Leu;0.801,0.838,0.738,0.724,0

.702,0.824,0.787,0.759,(-1.1761)+(0.0466)Ser+(-0.1661)Asn+(-0.0125)Lys+(0.1453)Ile+(-0.0854)Leu+(0.0790)Phe;0.801,0.838,0.779,0.774,0.786,0.793,0.767,0.780,(3.6091)+(0.0430)Ser+(-0.0080)Gly+(-0.0210)Arg+(0.0060)Pro+(0.0076)Leu+(-0.1588)Trp;0.801,0.837,0.783,0.780,0.776,0.802,0.789,0.787,(6.1246)+(-0.0688)Asn+(0.0177)Thr+(-0.0220)Tyr+(-0.0047)Lys+(0.0536)Ile+(-0.1518)Trp;0.801,0.833,0.807,0.817,0.831,0.820,0.725,0.798,(6.6991)+(0.0271)Thr+(-0.0175)Arg+(0.0197)Tyr+(-0.2051)Met+(0.0074)Lys+(-0.1503)Trp;0.801,0.833,0.802,0.807,0.819,0.803,0.751,0.795,(6.8789)+(-0.0393)Asn+(-0.0013)Gly+(0.0284)Thr+(-0.1697)Met+(0.0159)Leu+(-0.1484)Trp;0.801,0.833,0.799,0.789,0.809,0.805,0.801,0.801,(6.9004)+(-0.0693)Cit+(0.0075)Pro+(-0.0179)Val+(-0.0020)Lys+(0.0418)Leu+(-0.1558)Trp;0.801,0.828,0.798,0.799,0.791,0.848,0.773,0.803,(4.9334)+(-0.0674)Asn+(0.0001)Gly+(0.0116)Gln+(-0.1427)His+(0.0176)Thr+(-0.0208)Arg;0.801,0.835,0.765,0.767,0.773,0.802,0.717,0.765,(3.1662)+(0.0296)Ser+(-0.0005)Gln+(0.0046)Pro+(0.0128)Orn+(-0.0079)Lys+(-0.1483)Trp;0.801,0.833,0.814,0.825,0.826,0.836,0.747,0.808,(6.5930)+(0.0246)Thr+(-0.0023)Ala+(0.0202)Tyr+(0.0010)Val+(-0.1835)Met+(-0.1459)Trp;0.800,0.839,0.806,0.819,0.794,0.783

,0.810,0.802,(3.6900)+(-0.0054)Ala+(-0.0255)Tyr+(0.0121)Orn+(0.0021)Leu+(0.0860)Phe+(-0.1539)Trp;0.800,0.837,0.814,0.802,0.827,0.836,0.802,0.817,(8.7843)+(-0.0639)His+(-0.0355)Cit+(0.0093)Pro+(0.0199)Tyr+(-0.0614)Met+(-0.1092)Trp;0.800,0.828,0.806,0.820,0.825,0.810,0.723,0.795,(7.1955)+(-0.0022)Gly+(0.0290)Thr+(-0.0165)Arg+(-0.1775)Met+(0.0072)Lys+(-0.1452)Trp;0.800,0.827,0.732,0.711,0.722,0.797,0.758,0.747,(6.0358)+(-0.0445)Asn+(0.0026)Gly+(-0.1306)His+(0.0191)Thr+(-0.0330)Tyr+(0.0534)Ile;0.800,0.825,0.720,0.707,0.670,0.829,0.779,0.746,(1.0900)+(0.0310)Ser+(0.0025)Thr+(-0.0317)Arg+(-0.0536)Val+(-0.0146)Lys+(0.1686)Ile;0.800,0.823,0.746,0.716,0.744,0.816,0.783,0.765,(2.8783)+(0.002

3)Gly+(0.0082)Gln+(-0.1557)His+(0.0043)Thr+(-0.0496)Cit+(0.0481)Ile;0
.800,0.836,0.771,0.775,0.739,0.790,0.812,0.779,(0.4922)+(-0.0336)Tyr+
(-0.2742)Met+(0.0000)Lys+(0.1759)Ile+(-0.0970)Leu+(0.1162)Phe;0.800,0
.833,0.795,0.773,0.806,0.817,0.816,0.803,(8.1883)+(-0.0018)Asn+(-0.09
69)His+(0.0013)Arg+(0.0100)Tyr+(0.0232)Leu+(-0.1150)Trp;0.800,0.831,0
.811,0.826,0.820,0.820,0.743,0.802,(7.0471)+(-0.0022)Gly+(0.0267)Thr+
(-0.0017)Ala+(0.0014)Val+(-0.1600)Met+(-0.1422)Trp;0.800,0.834,0.758,
0.762,0.757,0.783,0.729,0.758,(2.7708)+(0.0300)Ser+(-0.0038)Thr+(0.00
54)Pro+(-0.0172)Tyr+(0.0094)Leu+(-0.1552)Trp;0.800,0.833,0.765,0.773,
0.763,0.796,0.724,0.764,(3.1839)+(0.0294)Ser+(-0.0001)Gln+(-0.0035)Th
r+(0.0068)Pro+(-0.0147)Tyr+(-0.1478)Trp;0.800,0.841,0.807,0.824,0.805
,0.767,0.797,0.798,(4.6582)+(-0.0650)Asn+(-0.0300)Tyr+(0.0145)Orn+(0.
0007)Lys+(0.0844)Phe+(-0.1454)Trp;0.800,0.829,0.732,0.710,0.732,0.787
,0.752,0.745,(4.1123)+(0.0032)Gly+(-0.1514)His+(0.0158)Thr+(-0.0052)V
al+(-0.0068)Lys+(0.0908)Phe;0.800,0.836,0.785,0.782,0.796,0.803,0.760
,0.785,(3.6463)+(0.0412)Ser+(-0.0080)Gly+(-0.0220)Arg+(0.0169)Orn+(0.
0075)Leu+(-0.1568)Trp;0.800,0.834,0.748,0.728,0.755,0.837,0.719,0.760
,(4.6683)+(0.0386)Ser+(-0.0667)Asn+(-0.1201)His+(-0.0111)Tyr+(0.0314)
Orn+(0.0003)Lys;0.800,0.832,0.755,0.722,0.745,0.822,0.813,0.776,(5.54
51)+(-0.0285)Asn+(-0.1105)His+(0.0236)Orn+(-0.0005)Lys+(0.1042)Ile+(-
0.0467)Leu;0.800,0.831,0.742,0.722,0.742,0.838,0.726,0.757,(4.2473)+(
0.0318)Ser+(-0.1320)His+(0.0013)Thr+(-0.0026)Ala+(-0.0101)Tyr+(0.0293
)Orn;0.800,0.829,0.753,0.732,0.739,0.811,0.798,0.770,(3.5552)+(0.0002
)Gly+(0.0075)Gln+(-0.1524)His+(-0.0302)Tyr+(0.0143)Orn+(0.0465)Ile;0.
800,0.837,0.791,0.795,0.797,0.816,0.752,0.790,(4.2847)+(0.0408)Ser+(-
0.0085)Gly+(-0.0204)Arg+(-0.0132)Tyr+(0.0233)Orn+(-0.1437)Trp;0.800,0
.836,0.769,0.764,0.746,0.799,0.806,0.779,(-0.3490)+(0.0031)Gly+(0.000
2)Pro+(-0.3392)Met+(0.1751)Ile+(-0.0960)Leu+(0.1089)Phe;0.800,0.833,0

.803,0.787,0.817,0.816,0.806,0.806,(8.4844)+(-0.0821)His+(-0.0309)Cit+(-0.0596)Met+(0.0090)Lys+(0.0231)Leu+(-0.1156)Trp;0.800,0.833,0.786,0.763,0.790,0.823,0.813,0.797,(4.5345)+(-0.1236)His+(-0.0027)Ala+(-0.1660)Met+(0.0254)Orn+(0.0030)Leu+(0.1030)Phe;0.800,0.828,0.715,0.696,0.674,0.826,0.771,0.742,(1.0192)+(0.0301)Ser+(-0.0342)Arg+(-0.0551)Val+(0.0232)Orn+(-0.0158)Lys+(0.1677)Ile;0.800,0.838,0.801,0.784,0.812,0.813,0.815,0.806,(8.1495)+(-0.0924)His+(0.0018)Arg+(-0.0756)Met+(0.0102)Lys+(0.0224)Leu+(-0.1115)Trp;0.800,0.836,0.790,0.781,0.792,0.798,0.803,0.793,(5.6865)+(-0.0810)Asn+(0.0139)Thr+(-0.0021)Pro+(0.0033)Orn+(0.0483)Ile+(-0.1603)Trp;0.800,0.833,0.803,0.812,0.818,0.818,0.734,0.796,(6.0554)+(0.0210)Thr+(0.0134)Tyr+(-0.1977)Met+(0.0144)Orn+(0.0024)Lys+(-0.1470)Trp;0.800,0.828,0.806,0.810,0.795,0.857,0.785,0.812,(5.1312)+(-0.0650)Asn+(0.0114)Gln+(-0.1389)His+(0.0183)Thr+(-0.0019)Ala+(-0.0200)Arg;0.800,0.840,0.751,0.733,0.730,0.851,0.770,0.771,(1.6646)+(0.0416)Ser+(-0.1313)Asn+(-0.0018)Gly+(-0.0748)Cit+(0.1519)Ile+(-0.0776)Leu;0.800,0.836,0.808,0.816,0.821,0.810,0.761,0.802,(4.3867)+(0.0044)Gln+(0.0225)Thr+(0.0141)Tyr+(-0.2395)Met+(0.0154)Leu+(-0.1575)Trp;0.800,0.832,0.776,0.766,0.781,0.793,0.780,0.780,(3.4178)+(0.0426)Ser+(-0.0086)Gly+(0.0033)Thr+(-0.0114)Lys+(0.0159)Leu+(-0.1568)Trp;0.800,0.832,0.811,0.804,0.819,0.848,0.786,0.814,(8.2842)+(-0.0043)Asn+(0.0042)Gly+(-0.0813)His+(0.0329)Tyr+(-0.0624)Met+(-0.1010)Trp;0.800,0.829,0.709,0.664,0.721,0.816,0.727,0.732,(2.8584)+(0.0379)Ser+(-0.1534)His+(-0.0029)Thr+(0.0029)Pro+(0.0163)Orn+(0.0148)Leu;0.800,0.833,0.789,0.792,0.781,0.795,0.792,0.790,(4.6298)+(0.0013)Gln+(0.0035)Pro+(-0.0267)Val+(0.0176)Orn+(0.0456)Leu+(-0.1559)Trp;0.800,0.832,0.728,0.693,0.723,0.798,0.784,0.749,(4.0112)+(-0.1505)His+(0.0131)Thr+(-0.0240)Val+(0.0224)Orn+(0.0336)Leu+(0.0677)Phe;0.800,0.836,0.813,0.806,0.829,0.853,0.771,0.814,(8.4223)+(0.0055)Gly+(-0.0719)His+(-0.0400)Cit+(0.

0369)Tyr+(-0.0619)Met+(-0.1070)Trp;0.800,0.829,0.771,0.763,0.714,0.823,0.875,0.794,(3.5959)+(-0.1449)Asn+(-0.0537)Val+(0.0001)Lys+(0.1768)Ile+(-0.0218)Leu+(0.0660)Phe;0.800,0.844,0.801,0.807,0.815,0.762,0.783,0.792,(3.7424)+(0.0009)Gly+(-0.0182)Arg+(0.0037)Pro+(-0.0010)Lys+(0.0778)Phe+(-0.1698)Trp;0.800,0.834,0.781,0.771,0.766,0.821,0.812,0.793,(1.1168)+(-0.0730)Cit+(-0.0007)Pro+(-0.2943)Met+(0.1817)Ile+(-0.0978)Leu+(0.1139)Phe;0.800,0.832,0.753,0.758,0.695,0.801,0.827,0.770,(2.4001)+(-0.0536)Cit+(-0.0193)Arg+(-0.0629)Tyr+(-0.0537)Val+(0.1587)Ile+(0.0825)Phe;0.800,0.830,0.756,0.717,0.752,0.845,0.806,0.780,(5.6896)+(-0.1200)His+(0.0112)Thr+(-0.0089)Ala+(-0.0753)Cit+(0.0391)Orn+(0.0552)Ile;0.800,0.828,0.749,0.721,0.757,0.784,0.780,0.760,(5.1735)+(-0.0552)Asn+(-0.1441)His+(0.0223)Thr+(-0.0061)Lys+(0.0003)Leu+(0.0812)Phe;0.800,0.838,0.777,0.757,0.760,0.830,0.827,0.794,(5.8793)+(-0.0938)His+(-0.0069)Tyr+(-0.1648)Met+(0.0092)Lys+(0.1349)Ile+(-0.0539)Leu;0.800,0.837,0.775,0.771,0.770,0.796,0.780,0.779,(0.3764)+(0.0393)Thr+(-0.0029)Ala+(-0.0530)Val+(-0.4469)Met+(0.0779)Leu+(0.1224)Phe;0.800,0.835,0.803,0.786,0.808,0.826,0.824,0.811,(8.3696)+(-0.0895)His+(-0.0015)Ala+(0.0064)Arg+(-0.0429)Met+(0.0274)Leu+(-0.1076)Trp;0.800,0.835,0.745,0.712,0.761,0.829,0.741,0.761,(3.5930)+(0.0504)Ser+(-0.0022)Gly+(-0.1254)His+(-0.0261)Cit+(-0.1565)Met+(0.0299)Leu;0.800,0.833,0.752,0.720,0.767,0.854,0.734,0.769,(4.4614)+(0.0365)Ser+(-0.0022)Gly+(-0.1198)His+(-0.0045)Ala+(-0.0697)Cit+(0.0492)Orn;0.800,0.832,0.815,0.826,0.807,0.829,0.796,0.814,(7.0413)+(-0.0595)Asn+(-0.0054)Ala+(0.0100)Pro+(-0.0043)Val+(0.0265)Orn+(-0.1227)Trp;0.800,0.832,0.792,0.795,0.812,0.815,0.728,0.787,(6.8857)+(0.0005)Gly+(0.0129)Thr+(-0.0759)Cit+(0.0077)Pro+(-0.0118)Tyr+(-0.1567)Trp;0.800,0.832,0.810,0.797,0.817,0.830,0.814,0.814,(8.5282)+(-0.0893)His+(-0.0022)Ala+(0.0006)Arg+(0.0167)Tyr+(0.0081)Val+(-0.1097)Trp;0.800,0.831,0.797,0.779,0.800,0.823,0.819,

0.805,(8.4461)+(0.0066)Asn+(-0.0842)His+(-0.0172)Val+(-0.0520)Met+(0.0536)Leu+(-0.1045)Trp;0.800,0.831,0.738,0.705,0.768,0.843,0.688,0.751,(4.5004)+(0.0360)Ser+(-0.1230)His+(-0.0626)Cit+(-0.0066)Arg+(0.0483)Orn+(-0.0067)Lys;0.800,0.824,0.748,0.732,0.708,0.815,0.827,0.771,(5.7303)+(-0.0905)His+(-0.0006)Pro+(-0.0211)Tyr+(-0.0308)Val+(0.1399)Ile+(-0.0112)Leu;0.800,0.838,0.747,0.743,0.720,0.791,0.778,0.758,(-3.3933)+(0.0548)Ser+(-0.0056)Gly+(-0.0075)Ala+(0.0153)Pro+(-0.3775)Met+(0.1051)Phe;0.800,0.834,0.803,0.806,0.823,0.807,0.753,0.797,(6.5773)+(-0.0396)Asn+(0.0270)Thr+(0.0113)Tyr+(-0.1845)Met+(0.0155)Leu+(-0.1504)Trp;0.800,0.833,0.750,0.764,0.769,0.787,0.646,0.741,(-2.4750)+(0.0510)Ser+(-0.0886)Asn+(0.0195)Thr+(-0.0192)Arg+(-0.3558)Met+(0.1165)Phe;0.800,0.826,0.766,0.755,0.724,0.842,0.829,0.788,(5.9420)+(-0.1403)Asn+(0.0215)Thr+(-0.0433)Cit+(-0.0128)Arg+(-0.0579)Val+(0.1734)Ile;0.800,0.836,0.810,0.806,0.807,0.833,0.810,0.814,(6.9574)+(-0.0452)Asn+(-0.0331)Val+(-0.1116)Met+(0.0351)Orn+(0.0628)Leu+(-0.1211)Trp;0.800,0.828,0.814,0.810,0.831,0.817,0.787,0.811,(7.8893)+(-0.0448)Asn+(-0.0707)Cit+(0.0064)Arg+(0.0083)Pro+(0.0013)Val+(-0.1437)Trp;0.800,0.822,0.760,0.758,0.690,0.843,0.851,0.786,(3.4010)+(0.0004)Gln+(0.0099)Thr+(-0.0097)Ala+(-0.0294)Arg+(-0.0567)Val+(0.1841)Ile;0.800,0.832,0.767,0.775,0.765,0.797,0.726,0.766,(3.2323)+(0.0291)Ser+(-0.0034)Thr+(0.0070)Pro+(-0.0143)Tyr+(-0.0010)Val+(-0.1467)Trp;0.800,0.830,0.760,0.755,0.775,0.781,0.725,0.759,(0.8911)+(0.0417)Thr+(-0.0558)Cit+(-0.0490)Val+(-0.4569)Met+(0.0724)Leu+(0.1227)Phe;0.800,0.825,0.723,0.692,0.718,0.787,0.769,0.741,(3.8554)+(0.0027)Gly+(-0.1535)His+(0.0146)Thr+(-0.0207)Val+(0.0315)Leu+(0.0752)Phe;0.800,0.833,0.743,0.736,0.732,0.788,0.754,0.752,(4.0703)+(0.0028)Gly+(-0.1355)His+(-0.0414)Tyr+(-0.0059)Val+(0.0299)Orn+(0.1008)Phe;0.800,0.832,0.751,0.735,0.732,0.830,0.776,0.768,(-0.8036)+(0.0469)Ser+(-0.0613)Asn+(0.0083)Thr+(-0.0070)Ala+(-0.2803)M

et+(0.0750)Ile;0.800,0.828,0.750,0.722,0.757,0.787,0.780,0.762,(5.185
1)+(-0.0554)Asn+(-0.1440)His+(0.0224)Thr+(-0.0003)Pro+(-0.0060)Lys+(0
.0819)Phe;0.800,0.829,0.756,0.734,0.742,0.814,0.801,0.773,(3.5879)+(0
.0076)Gln+(-0.1526)His+(-0.0010)Pro+(-0.0295)Tyr+(0.0147)Orn+(0.0474)
Ile;0.800,0.835,0.799,0.780,0.807,0.818,0.817,0.805,(8.1721)+(0.0107)
Asn+(-0.0921)His+(0.0057)Arg+(-0.0589)Met+(0.0270)Leu+(-0.1087)Trp;0.
800,0.832,0.798,0.805,0.796,0.855,0.741,0.799,(4.8528)+(0.0107)Gln+(-
0.1375)His+(0.0265)Thr+(0.0000)Ala+(-0.0211)Arg+(-0.1558)Met;0.800,0.
831,0.796,0.787,0.799,0.795,0.817,0.799,(5.7712)+(-0.0110)Asn+(0.0029
)Pro+(-0.1685)Met+(0.0025)Lys+(0.0603)Ile+(-0.1445)Trp;0.800,0.829,0.
801,0.784,0.810,0.825,0.813,0.808,(8.5667)+(-0.0826)His+(-0.0026)Ala+
(-0.0362)Cit+(0.0059)Lys+(0.0252)Leu+(-0.1178)Trp;0.800,0.829,0.813,0
.819,0.835,0.826,0.746,0.806,(5.4785)+(0.0047)Gln+(0.0118)Thr+(-0.075
7)Cit+(-0.0101)Arg+(0.0032)Val+(-0.1674)Trp;0.800,0.829,0.791,0.783,0
.816,0.805,0.753,0.789,(6.4895)+(0.0032)Gly+(-0.0825)Cit+(0.0068)Pro+
(-0.0028)Lys+(0.0151)Leu+(-0.1619)Trp;0.800,0.828,0.736,0.705,0.750,0
.823,0.729,0.752,(4.1242)+(0.0465)Ser+(-0.0579)Asn+(-0.1296)His+(-0.0
277)Cit+(-0.0048)Arg+(0.0212)Leu;0.800,0.825,0.800,0.788,0.781,0.844,
0.840,0.813,(4.5423)+(-0.0822)Asn+(0.0114)Gln+(-0.1353)His+(-0.0220)V
al+(0.0005)Lys+(0.0464)Leu;0.800,0.836,0.770,0.774,0.738,0.787,0.811,
0.778,(0.4875)+(0.0013)Pro+(-0.0341)Tyr+(-0.2770)Met+(0.1738)Ile+(-0.
0964)Leu+(0.1164)Phe;0.800,0.830,0.757,0.731,0.752,0.826,0.782,0.773,
(3.6338)+(0.0082)Gln+(-0.1410)His+(-0.0654)Cit+(-0.0344)Tyr+(0.0328)O
rn+(0.0472)Ile;0.800,0.828,0.830,0.836,0.837,0.844,0.792,0.827,(5.244
5)+(0.0012)Gly+(0.0057)Gln+(-0.0043)Ala+(-0.0802)Cit+(0.0071)Val+(-0.
1568)Trp;0.800,0.843,0.746,0.732,0.785,0.821,0.648,0.746,(-2.2227)+(0
.0491)Ser+(-0.1089)Cit+(-0.32
03)Met+(0.0386)Orn+(-0.0159)Lys+(0.1171)Phe;0.800,0.835,0.767,0.778,0

.774,0.807,0.692,0.763,(3.8525)+(0.0306)Ser+(0.0032)Thr+(-0.0219)Arg+(0.0077)Pro+(-0.0118)Tyr+(-0.1477)Trp;0.800,0.827,0.781,0.764,0.777,0.829,0.801,0.793,(4.2047)+(-0.0810)Asn+(0.0103)Gln+(-0.1543)His+(0.0132)Thr+(0.0011)Pro+(0.0127)Leu;0.800,0.823,0.730,0.695,0.724,0.812,0.771,0.751,(3.7617)+(0.0450)Ser+(-0.0050)Gly+(-0.1377)His+(-0.0134)Tyr+(-0.0171)Val+(0.0458)Leu;0.800,0.828,0.751,0.734,0.736,0.783,0.804,0.764,(5.0444)+(-0.0140)Asn+(-0.1315)His+(-0.0047)Arg+(-0.0478)Tyr+(0.0384)Ile+(0.0811)Phe;0.800,0.825,0.742,0.718,0.707,0.818,0.826,0.767,(5.2677)+(0.0020)Gly+(-0.0992)His+(-0.0017)Pro+(-0.0339)Val+(-0.0028)Lys+(0.1305)Ile;0.800,0.835,0.798,0.814,0.816,0.823,0.700,0.788,(6.8442)+(0.0257)Thr+(-0.0165)Arg+(-0.0019)Val+(-0.1618)Met+(0.0226)Orn+(-0.1372)Trp;0.800,0.828,0.751,0.733,0.749,0.845,0.733,0.765,(4.6873)+(0.0396)Ser+(-0.0607)Asn+(-0.1263)His+(0.0081)Thr+(-0.0028)Ala+(0.0055)Val;0.800,0.826,0.727,0.690,0.739,0.823,0.730,0.746,(3.7449)+(0.0445)Ser+(-0.0037)Gly+(-0.1484)His+(0.0069)Thr+(-0.0162)Arg+(0.0181)Leu;0.800,0.825,0.741,0.719,0.740,0.842,0.732,0.758,(4.1037)+(0.0372)Ser+(-0.1384)His+(0.0044)Thr+(-0.0033)Ala+(0.0081)Val+(-0.0042)Lys;0.800,0.836,0.818,0.819,0.811,0.819,0.830,0.820,(4.3524)+(-0.0733)Asn+(0.0064)Gln+(-0.0143)Arg+(-0.0005)Pro+(0.0502)Ile+(-0.1590)Trp;0.800,0.832,0.770,0.750,0.760,0.819,0.808,0.784,(5.3940)+(-0.0551)Asn+(-0.1366)His+(0.0233)Thr+(-0.0047)Ala+(-0.0048)Lys+(0.0882)Phe;0.800,0.831,0.789,0.780,0.790,0.797,0.802,0.792,(5.2908)+(0.0018)Gly+(0.0028)Pro+(-0.1836)Met+(0.0018)Lys+(0.0628)Ile+(-0.1443)Trp;0.800,0.829,0.808,0.797,0.796,0.850,0.830,0.818,(3.9274)+(-0.0230)Asn+(0.0119)Gln+(-0.1433)His+(-0.0020)Ala+(-0.1100)Met+(0.0216)Leu;0.800,0.829,0.758,0.750,0.746,0.841,0.741,0.770,(3.2146)+(0.0282)Ser+(0.0061)Gln+(-0.1457)His+(0.0019)Thr+(-0.0047)Tyr+(-0.0035)Lys;0.800,0.836,0.746,0.712,0.757,0.829,0.749,0.762,(3.5277)+(0.0519)Ser+(-0.0031)Gly+(-0.1301)His+(-0.0049)

Arg+(-0.1503)Met+(0.0290)Leu;0.800,0.833,0.830,0.844,0.812,0.842,0.82
2,0.830,(5.4154)+(-0.0811)Asn+(0.0055)Gln+(-0.0059)Ala+(0.0084)Pro+(0
.0178)Orn+(-0.1349)Trp;0.800,0.828,0.735,0.703,0.732,0.797,0.782,0.75
3,(3.8890)+(-0.0448)Asn+(0.0064)Gly+(-0.1431)His+(-0.0024)Pro+(0.0363
)Ile+(0.0645)Phe;0.800,0.832,0.801,0.803,0.791,0.826,0.796,0.804,(4.2
371)+(0.0365)Ser+(-0.0079)Gly+(0.0039)Thr+(-0.0030)Ala+(-0.0063)Tyr+(
-0.1442)Trp;0.800,0.830,0.801,0.795,0.810,0.809,0.796,0.802,(8.4213)+
(-0.0123)Asn+(-0.0902)His+(-0.0040)Arg+(0.0053)Val+(0.0111)Lys+(-0.11
00)Trp;0.800,0.836,0.758,0.753,0.766,0.795,0.728,0.761,(2.6441)+(0.03
14)Ser+(0.0030)Pro+(0.0101)Orn+(-0.0113)Lys+(0.0127)Leu+(-0.1561)Trp;
0.800,0.834,0.766,0.774,0.765,0.800,0.720,0.765,(3.3873)+(0.0300)Ser+
(-0.0013)Thr+(0.0068)Pro+(-0.0126)Tyr+(-0.0048)Lys+(-0.1444)Trp;0.800
,0.831,0.722,0.697,0.729,0.821,0.702,0.737,(3.9339)+(0.0345)Ser+(-0.1
332)His+(0.0071)Pro+(-0.0203)Tyr+(0.0267)Orn+(-0.0039)Lys;0.800,0.830
,0.809,0.801,0.824,0.820,0.793,0.810,(8.5992)+(-0.0799)His+(-0.0318)C
it+(0.0076)Val+(-0.0523)Met+(0.0114)Lys+(-0.1129)Trp;0.800,0.839,0.74
1,0.721,0.709,0.835,0.795,0.765,(-0.8954)+(0.0468)Ser+(-0.0097)Ala+(0
.0101)Pro+(-0.2862)Met+(-0.0117)Lys+(0.0789)Ile;0.800,0.835,0.754,0.7
29,0.746,0.815,0.792,0.771,(4.6062)+(-0.1452)His+(0.0165)Thr+(-0.0051
)Ala+(0.0209)Orn+(-0.0085)Lys+(0.0794)Phe;0.800,0.827,0.715,0.680,0.7
24,0.817,0.716,0.734,(3.7075)+(0.0389)Ser+(-0.1473)His+(0.0073)Thr+(-
0.0144)Tyr+(-0.0091)Lys+(0.0261)Leu;0.800,0.830,0.752,0.736,0.736,0.8
16,0.779,0.767,(3.8800)+(0.0039)Gly+(-0.1387)His+(-0.0043)Ala+(-0.005
5)Val+(0.0259)Orn+(0.0860)Phe;0.800,0.840,0.819,0.828,0.817,0.799,0.8
14,0.814,(4.1853)+(-0.0059)Ala+(-0.0179)Arg+(0.0170)Orn+(0.0001)Lys+(
0.0813)Phe+(-0.1561)Trp;0.800,0.834,0.769,0.751,0.737,0.862,0.815,0.7
91,(1.2343)+(0.0437)Ser+(-0.1217)Asn+(-0.0009)Gly+(-0.0116)Ala+(-0.08
63)Cit+(0.0667)Ile;0.800,0.832,0.797,0.799,0.789,0.851,0.771,0.803,(4

.6782)+(-0.0009)Gly+(0.0094)Gln+(-0.1360)His+(0.0224)Thr+(-0.0003)Ala+(-0.1666)Met;0.800,0.827,0.835,0.847,0.838,0.847,0.791,0.831,(5.5341)+(0.0005)Gly+(0.0058)Gln+(-0.0030)Ala+(-0.0717)Cit+(0.0003)Lys+(-0.1468)Trp;0.800,0.824,0.766,0.747,0.751,0.822,0.805,0.781,(3.4320)+(0.0095)Gln+(-0.1433)His+(-0.0466)Cit+(-0.0006)Pro+(-0.0268)Tyr+(0.0547)Ile;0.800,0.824,0.794,0.782,0.776,0.841,0.835,0.808,(4.5240)+(-0.0836)Asn+(0.0112)Gln+(-0.1339)His+(0.0037)Pro+(-0.0229)Val+(0.0456)Leu;0.800,0.834,0.771,0.778,0.781,0.812,0.701,0.768,(3.7403)+(0.0309)Ser+(0.0022)Thr+(-0.0225)Arg+(0.0072)Pro+(-0.0017)Val+(-0.1493)Trp;0.800,0.829,0.811,0.822,0.803,0.831,0.786,0.810,(7.3372)+(-0.0748)Asn+(-0.0007)Gly+(0.0181)Thr+(-0.0059)Ala+(0.0092)Pro+(-0.1376)Trp;0.800,0.837,0.741,0.716,0.728,0.793,0.797,0.758,(4.5931)+(-0.1370)His+(-0.0498)Tyr+(0.0237)Orn+(-0.0047)Lys+(0.0366)Ile+(0.0750)Phe;0.800,0.830,0.808,0.785,0.820,0.833,0.826,0.816,(8.6815)+(-0.0810)His+(-0.0035)Ala+(-0.0414)Cit+(0.0216)Tyr+(0.0271)Leu+(-0.1230)Trp;0.800,0.826,0.742,0.730,0.732,0.828,0.733,0.756,(2.8024)+(0.0302)Ser+(0.0056)Gln+(-0.1461)His+(-0.0015)Thr+(0.0073)Pro+(-0.0159)Tyr;0.800,0.835,0.764,0.749,0.770,0.852,0.729,0.775,(4.6932)+(0.0415)Ser+(-0.0042)Gly+(-0.1180)His+(0.0179)Thr+(0.0118)Tyr+(-0.1760)Met;0.800,0.834,0.795,0.797,0.816,0.819,0.732,0.791,(7.0996)+(0.0143)Thr+(-0.0751)Cit+(0.0077)Pro+(-0.0113)Tyr+(-0.0022)Lys+(-0.1551)Trp;0.800,0.833,0.771,0.744,0.760,0.841,0.814,0.790,(5.5986)+(0.0060)Gly+(-0.1127)His+(-0.0052)Ala+(0.0117)Tyr+(-0.1567)Met+(0.0746)Ile;0.800,0.833,0.806,0.800,0.821,0.825,0.779,0.806,(6.7554)+(0.0170)Thr+(-0.0057)Ala+(-0.0786)Cit+(0.0007)Tyr+(0.0215)Leu+(-0.1666)Trp;0.800,0.831,0.792,0.794,0.813,0.810,0.730,0.787,(6.8744)+(0.0132)Thr+(-0.0768)Cit+(0.0072)Pro+(-0.0130)Tyr+(0.0018)Val+(-0.1595)Trp;0.800,0.828,0.772,0.759,0.761,0.846,0.776,0.786,(3.2124)+(0.0357)Ser+(-0.0054)Gly+(0.0071)Gln+(-0.1395)His+(-0.0288)Cit+(-0.0097)

Tyr;0.800,0.824,0.718,0.707,0.664,0.812,0.790,0.743,(-0.9885)+(0.0304)Ser+(-0.0031)Thr+(-0.0422)Arg+(-0.0592)Val+(0.1603)Ile+(0.0457)Phe;0.800,0.833,0.793,0.771,0.801,0.818,0.816,0.802,(8.3540)+(-0.0817)His+(-0.0378)Cit+(0.0082)Arg+(-0.0137)Val+(0.0478)Leu+(-0.1174)Trp;0.800,0.830,0.793,0.791,0.818,0.809,0.735,0.788,(6.5675)+(0.0010)Gly+(0.0110)Thr+(-0.0802)Cit+(0.0065)Pro+(0.0016)Val+(-0.1636)Trp;0.800,0.827,0.771,0.744,0.781,0.801,0.796,0.781,(3.9307)+(0.0202)Asn+(-0.1273)His+(0.0052)Pro+(-0.2151)Met+(0.0212)Orn+(0.1063)Phe;0.800,0.825,0.737,0.706,0.739,0.837,0.745,0.757,(3.7795)+(0.0423)Ser+(-0.1354)His+(-0.0045)Ala+(-0.0306)Cit+(-0.0066)Arg+(0.0252)Leu;0.800,0.829,0.817,0.816,0.835,0.817,0.781,0.812,(8.0312)+(-0.0222)Asn+(-0.0619)Cit+(0.0100)Pro+(0.0020)Val+(-0.0651)Met+(-0.1370)Trp;0.800,0.828,0.778,0.759,0.776,0.828,0.797,0.790,(4.1894)+(-0.0802)Asn+(0.0098)Gln+(-0.1541)His+(0.0118)Thr+(0.0134)Orn+(0.0112)Leu;0.800,0.836,0.743,0.728,0.716,0.829,0.776,0.762,(-1.1513)+(0.0475)Ser+(-0.0097)Ala+(-0.0145)Arg+(0.0108)Pro+(-0.3019)Met+(0.0721)Ile;0.800,0.834,0.777,0.771,0.754,0.801,0.826,0.788,(0.3314)+(-0.3211)Met+(-0.0018)Orn+(-0.0013)Lys+(0.1747)Ile+(-0.0955)Leu+(0.1063)Phe;0.800,0.827,0.720,0.683,0.739,0.824,0.707,0.738,(3.7541)+(0.0409)Ser+(-0.1478)His+(0.0080)Thr+(-0.0135)Arg+(-0.0072)Lys+(0.0229)Leu;0.800,0.826,0.719,0.684,0.730,0.821,0.717,0.738,(3.3388)+(0.0360)Ser+(-0.1428)His+(-0.0041)Thr+(0.0051)Pro+(0.0008)Val+(0.0217)Orn;0.800,0.825,0.745,0.729,0.722,0.809,0.789,0.762,(5.4101)+(0.0023)Gly+(-0.1086)His+(-0.0277)Tyr+(0.0024)Lys+(0.1144)Ile+(-0.0449)Leu;0.800,0.825,0.743,0.723,0.735,0.851,0.732,0.760,(4.2418)+(0.0381)Ser+(-0.1189)His+(0.0026)Thr+(-0.0063)Ala+(-0.0394)Cit+(0.0123)Pro;0.800,0.842,0.802,0.806,0.820,0.767,0.780,0.793,(3.9127)+(-0.0194)Arg+(0.0030)Pro+(0.0122)Orn+(-0.0022)Lys+(0.0716)Phe+(-0.1674)Trp;0.800,0.836,0.748,0.729,0.759,0.841,0.711,0.760,(4.0949)+(0.0463)Ser+(-0.1141)

His+(-0.0105)Arg+(0.0124)Pro+(0.0093)Tyr+(-0.1593)Met;0.800,0.836,0.763,0.740,0.754,0.816,0.803,0.778,(5.0137)+(-0.0587)Asn+(-0.1383)His+(0.0189)Thr+(-0.0052)Ala+(0.0182)Orn+(0.0784)Phe;0.800,0.833,0.811,0.820,0.832,0.824,0.732,0.802,(7.2374)+(-0.0017)Gly+(0.0298)Thr+(-0.0136)Arg+(0.0174)Tyr+(-0.1866)Met+(-0.1455)Trp;0.800,0.832,0.828,0.827,0.831,0.834,0.818,0.827,(5.1612)+(0.0058)Gln+(-0.0050)Ala+(-0.0786)Cit+(-0.0009)Arg+(0.0207)Leu+(-0.1623)Trp;0.800,0.828,0.728,0.720,0.647,0.840,0.840,0.762,(2.0271)+(0.0273)Ser+(-0.0042)Gln+(-0.0098)Ala+(-0.0199)Tyr+(-0.0501)Val+(0.1753)Ile;0.800,0.836,0.776,0.776,0.775,0.816,0.749,0.779,(3.4108)+(0.0308)Ser+(0.0008)Gln+(-0.0193)Arg+(-0.0220)Val+(0.0470)Leu+(-0.1542)Trp;0.800,0.834,0.744,0.726,0.703,0.818,0.820,0.767,(-1.1523)+(0.0491)Ser+(-0.1831)Asn+(-0.0043)Gly+(0.1432)Ile+(-0.0905)Leu+(0.0742)Phe;0.800,0.831,0.794,0.787,0.781,0.848,0.801,0.804,(4.8723)+(-0.0742)Asn+(0.0093)Gln+(-0.1384)His+(0.0116)Thr+(-0.0030)Ala+(0.0216)Orn;0.800,0.831,0.774,0.741,0.767,0.835,0.834,0.794,(6.1201)+(-0.1093)His+(-0.0063)Ala+(0.0052)Pro+(-0.1361)Met+(0.0234)Orn+(0.0592)Ile;0.800,0.827,0.726,0.693,0.728,0.827,0.736,0.746,(3.7463)+(0.0423)Ser+(-0.1365)His+(-0.0098)Arg+(-0.0169)Val+(-0.0057)Lys+(0.0479)Leu;0.800,0.823,0.743,0.727,0.708,0.815,0.806,0.764,(5.8945)+(0.0022)Gly+(-0.0893)His+(-0.0134)Arg+(-0.0157)Tyr+(-0.0357)Val+(0.1368)Ile;0.800,0.831,0.792,0.785,0.773,0.813,0.839,0.802,(5.0076)+(0.0002)Gly+(-0.0080)Ala+(-0.0076)Tyr+(0.0076)Orn+(0.0652)Ile+(-0.1544)Trp;0.800,0.828,0.806,0.793,0.790,0.851,0.838,0.818,(4.2560)+(-0.0543)Asn+(0.0113)Gln+(-0.1460)His+(-0.0034)Ala+(-0.0006)Lys+(0.0168)Leu;0.800,0.840,0.806,0.815,0.823,0.769,0.774,0.795,(3.8653)+(0.0003)Gly+(-0.0202)Arg+(0.0141)Orn+(-0.0038)Leu+(0.0752)Phe+(-0.1649)Trp;0.800,0.839,0.792,0.810,0.795,0.748,0.770,0.781,(3.9785)+(-0.0152)Arg+(0.0061)Pro+(-0.0342)Tyr+(-0.0033)Leu+(0.0945)Phe+(-0.1566)Trp;0.800,0.832,0.763,0.73

7,0.763,0.826,0.785,0.778,(2.2819)+(0.0081)Gln+(-0.1574)His+(-0.0636)Cit+(-0.0066)Val+(0.0341)Orn+(0.0784)Phe;0.800,0.830,0.751,0.734,0.734,0.785,0.810,0.766,(4.9648)+(-0.0169)Asn+(-0.1313)His+(-0.0472)Tyr+(-0.0014)Lys+(0.0390)Ile+(0.0804)Phe;0.800,0.826,0.759,0.726,0.742,0.840,0.823,0.783,(5.8359)+(-0.1186)His+(0.0148)Thr+(-0.0090)Ala+(-0.0515)Cit+(0.0037)Pro+(0.0601)Ile;0.800,0.836,0.837,0.835,0.832,0.840,0.852,0.840,(4.4709)+(0.0060)Gln+(0.0287)Tyr+(-0.0283)Val+(-0.2141)Met+(0.0601)Leu+(-0.1400)Trp;0.800

,0.835,0.805,0.780,0.820,0.826,0.826,0.813,(8.1718)+(-0.0910)His+(0.0055)Arg+(0.0226)Tyr+(-0.0840)Met+(0.0254)Leu+(-0.1137)Trp;0.800,0.833,0.772,0.744,0.751,0.833,0.848,0.794,(4.9461)+(-0.1287)His+(-0.0069)Ala+(-0.0047)Arg+(-0.0044)Lys+(0.0475)Ile+(0.0603)Phe;0.800,0.828,0.741,0.718,0.737,0.807,0.766,0.757,(6.5799)+(-0.0383)Asn+(-0.1203)His+(0.0222)Thr+(-0.0384)Cit+(-0.0362)Tyr+(0.0537)Ile;0.800,0.827,0.772,0.768,0.769,0.850,0.733,0.780,(3.1286)+(0.0308)Ser+(0.0083)Gln+(-0.1419)His+(-0.0212)Cit+(-0.0187)Arg+(-0.0022)Tyr;0.800,0.826,0.767,0.741,0.760,0.834,0.801,0.784,(4.0826)+(0.0078)Gln+(-0.1494)His+(-0.0193)Val+(0.0253)Orn+(-0.0069)Lys+(0.0418)Leu;0.800,0.829,0.796,0.778,0.811,0.815,0.801,0.801,(8.4747)+(-0.0054)Asn+(-0.0841)His+(-0.0348)Cit+(0.0058)Lys+(0.0225)Leu+(-0.1197)Trp;0.800,0.827,0.755,0.736,0.754,0.837,0.749,0.769,(5.0100)+(0.0442)Ser+(-0.0669)Asn+(-0.0043)Gly+(-0.1204)His+(0.0092)Thr+(0.0001)Lys;0.800,0.823,0.735,0.702,0.730,0.838,0.757,0.757,(3.6893)+(0.0403)Ser+(-0.1326)His+(-0.0042)Ala+(-0.0307)Cit+(-0.0132)Val+(0.0443)Leu;0.800,0.835,0.811,0.816,0.799,0.831,0.807,0.813,(3.8487)+(0.0377)Ser+(-0.0080)Gly+(0.0017)Gln+(-0.0030)Ala+(-0.0044)Lys+(-0.1413)Trp;0.800,0.833,0.817,0.830,0.818,0.815,0.784,0.812,(5.3409)+(-0.1107)Asn+(0.0051)Gln+(0.0124)Thr+(0.0028)Pro+(0.0105)Orn+(-0.1468)Trp;0.800,0.832,0.821,0.820,0.835,0.824,0.794,0.818,(5.2197)+(0.

0059)Gln+(-0.0827)Cit+(-0.0021)Tyr+(-0.0059)Lys+(0.0180)Leu+(-0.1654)Trp;0.800,0.823,0.755,0.751,0.685,0.839,0.851,0.782,(3.5583)+(0.0092)Thr+(-0.0109)Ala+(-0.0298)Arg+(0.0063)Pro+(-0.0569)Val+(0.1805)Ile;0.800,0.831,0.727,0.729,0.736,0.766,0.676,0.727,(-3.2672)+(0.0529)Ser+(-0.0952)Asn+(0.0122)Thr+(0.0081)Pro+(-0.3849)Met+(0.1105)Phe;0.800,0.827,0.758,0.729,0.742,0.832,0.813,0.779,(5.9900)+(-0.1311)His+(0.0173)Thr+(-0.0074)Ala+(-0.0134)Arg+(0.0027)Pro+(0.0547)Ile;0.800,0.828,0.757,0.738,0.751,0.814,0.777,0.770,(1.7202)+(0.0035)Gly+(0.0088)Gln+(-0.1680)His+(-0.0466)Cit+(0.0009)Leu+(0.0798)Phe;0.800,0.825,0.742,0.744,0.682,0.794,0.822,0.761,(2.0695)+(-0.0006)Gln+(-0.0692)Cit+(-0.0677)Tyr+(-0.0508)Val+(0.1513)Ile+(0.0753)Phe;0.800,0.839,0.786,0.802,0.790,0.751,0.759,0.775,(3.9325)+(-0.0179)Arg+(0.0049)Pro+(-0.0353)Tyr+(0.0131)Orn+(0.0854)Phe+(-0.1574)Trp;0.800,0.831,0.731,0.700,0.755,0.832,0.688,0.744,(4.1877)+(0.0342)Ser+(-0.1283)His+(-0.0665)Cit+(-0.0220)Tyr+(0.0035)Val+(0.0461)Orn;0.800,0.829,0.732,0.699,0.723,0.810,0.784,0.754,(4.6391)+(0.0023)Gly+(-0.1263)His+(0.0033)Thr+(0.0181)Orn+(0.0991)Ile+(-0.0417)Leu;0.800,0.823,0.762,0.756,0.713,0.837,0.824,0.782,(5.6906)+(-0.1354)Asn+(0.0214)Thr+(-0.0226)Arg+(-0.0576)Val+(0.1832)Ile+(-0.0098)Leu;0.800,0.837,0.765,0.769,0.779,0.799,0.703,0.762,(3.1199)+(0.0313)Ser+(-0.0244)Arg+(0.0047)Pro+(0.0130)Orn+(0.0064)Leu+(-0.1582)Trp;0.800,0.833,0.797,0.798,0.790,0.853,0.769,0.803,(4.5156)+(0.0094)Gln+(-0.1383)His+(0.0218)Thr+(-0.0006)Ala+(0.0101)Tyr+(-0.1804)Met;0.800,0.831,0.833,0.849,0.828,0.828,0.801,0.827,(5.2384)+(-0.0502)Asn+(0.0076)Gln+(-0.0069)Arg+(0.0086)Pro+(-0.1220)Met+(-0.1317)Trp;0.800,0.829,0.778,0.775,0.737,0.864,0.809,0.796,(4.1537)+(-0.0112)Ala+(-0.1121)Cit+(-0.0355)Tyr+(0.0440)Orn+(0.1726)Ile+(-0.0827)Leu;0.800,0.834,0.790,0.786,0.788,0.845,0.766,0.796,(4.1938)+(0.0096)Gln+(-0.1463)His+(0.0221)Thr+(0.0051)Tyr+(0.0053)Val+(-0.1894)Met;0.800,0.832

,0.796,0.794,0.820,0.820,0.733,0.792,(6.8772)+(0.0009)Gly+(0.0126)Thr+(-0.0781)Cit+(0.0070)Pro+(-0.0028)Lys+(-0.1586)Trp;0.800,0.833,0.782,0.757,0.798,0.828,0.783,0.791,(4.6359)+(-0.1095)His+(-0.0577)Cit+(-0.0079)Val+(-0.1605)Met+(0.0448)Orn+(0.1128)Phe;0.800,0.830,0.748,0.731,0.735,0.815,0.772,0.763,(4.2614)+(0.0034)Gly+(-0.1479)His+(0.0166)Thr+(-0.0047)Ala+(-0.0068)Lys+(0.0891)Phe;0.800,0.827,0.765,0.751,0.742,0.824,0.807,0.781,(6.3969)+(-0.0132)Asn+(-0.0865)His+(-0.0402)Cit+(-0.0262)Tyr+(0.1246)Ile+(-0.0504)Leu;0.800,0.836,0.800,0.780,0.802,0.828,0.830,0.810,(8.2999)+(-0.0844)His+(0.0068)Arg+(-0.0176)Val+(-0.0601)Met+(0.0547)Leu+(-0.1045)Trp;0.800,0.832,0.746,0.725,0.729,0.818,0.783,0.764,(3.8117)+(0.0042)Gly+(-0.1415)His+(-0.0064)Ala+(0.0053)Pro+(0.0204)Orn+(0.0750)Phe;0.800,0.832,0.789,0.779,0.792,0.798,0.801,0.793,(5.2728)+(0.0015)Gly+(0.0024)Pro+(-0.1811)Met+(0.0077)Orn+(0.0614)Ile+(-0.1430)Trp;0.800,0.829,0.800,0.788,0.789,0.844,0.827,0.812,(3.8180)+(0.0110)Gln+(-0.1367)His+(-0.0204)Val+(-0.1638)Met+(0.0030)Lys+(0.0520)Leu;0.800,0.829,0.747,0.712,0.753,0.822,0.773,0.765,(5.1107)+(0.0221)Asn+(0.0047)Gly+(-0.1255)His+(-0.1827)Met+(0.0196)Orn+(0.0639)Ile;0.800,0.838,0.789,0.785,0.775,0.819,0.811,0.797,(5.4803)+(0.0166)Thr+(-0.0081)Ala+(-0.0194)Arg+(-0.0084)Tyr+(0.0682)Ile+(-0.1601)Trp;0.800,0.832,0.792,0.782,0.796,0.797,0.811,0.796,(5.4818)+(0.0024)Pro+(-0.1781)Met+(0.0085)Orn+(0.0006)Lys+(0.0599)Ile+(-0.1440)Trp;0.800,0.831,0.741,0.710,0.729,0.817,0.792,0.762,(4.8264)+(0.0025)Gly+(-0.1226)His+(-0.0045)Pro+(0.0215)Orn+(0.1098)Ile+(-0.0452)Leu;0.800,0.828,0.835,0.841,0.842,0.847,0.800,0.832,(5.4147)+(0.0063)Gln+(-0.0041)Ala+(-0.0794)Cit+(0.0076)Val+(-0.0026)Lys+(-0.1552)Trp;0.800,0.835,0.806,0.810,0.795,0.826,0.804,0.809,(3.8012)+(0.0355)Ser+(-0.0078)Gly+(0.0011)Gln+(0.0022)Thr+(-0.0036)Ala+(-0.1468)Trp;0.800,0.834,0.806,0.811,0.816,0.820,0.762,0.802,(6.8043)+(-0.0401)Asn+(0.0280)Thr+(-0.0028)Al

a+(-0.1539)Met+(0.0183)Leu+(-0.1460)Trp;0.800,0.831,0.807,0.821,0.797,0.828,0.774,0.805,(7.3524)+(-0.0746)Asn+(0.0184)Thr+(-0.0056)Ala+(0.0096)Pro+(-0.0078)Tyr+(-0.1348)Trp;0.800,0.829,0.752,0.719,0.743,0.837,0.799,0.774,(5.4210)+(0.0042)Gly+(-0.1287)His+(-0.0067)Ala+(-0.0102)Arg+(0.0240)Orn+(0.0551)Ile;0.800,0.838,0.750,0.736,0.728,0.855,0.758,0.769,(1.6536)+(0.0392)Ser+(-0.1297)Asn+(-0.0773)Cit+(-0.0031)Pro+(0.1581)Ile+(-0.0781)Leu;0.800,0.834,0.799,0.799,0.791,0.821,0.802,0.803,(3.8689)+(0.0372)Ser+(-0.0076)Gly+(0.0022)Thr+(-0.0038)Ala+(0.0026)Val+(-0.1489)Trp;0.800,0.832,0.732,0.714,0.742,0.798,0.715,0.742,(3.9975)+(0.0051)Gly+(-0.1325)His+(-0.0714)Cit+(-0.0454)Tyr+(0.0450)Orn+(0.0976)Phe;0.800,0.831,0.778,0.745,0.764,0.841,0.847,0.799,(5.1828)+(-0.1154)His+(-0.0081)Ala+(-0.0502)Cit+(-0.0068)Lys+(0.0547)Ile+(0.0660)Phe;0.800,0.835,0.787,0.782,0.785,0.846,0.765,0.794,(4.4291)+(0.0085)Gln+(-0.1406)His+(0.0194)Thr+(0.0036)Tyr+(-0.1744)Met+(0.0198)Orn;0.800,0.834,0.793,0.786,0.799,0.850,0.757,0.798,(4.3413)+(0.0101)Gln+(-0.1388)His+(0.0234)Thr+(-0.0404)Cit+(0.0068)Val+(-0.1835)Met;0.800,0.834,0.802,0.778,0.818,0.822,0.817,0.809,(8.1172)+(0.0162)Asn+(-0.0927)His+(0.0241)Tyr+(-0.0894)Met+(0.0257)Leu+(-0.1142)Trp;0.800,0.832,0.800,0.806,0.798,0.856,0.747,0.802,(4.9056)+(-0.0008)Gly+(0.0109)Gln+(-0.1375)His+(0.0268)Thr+(-0.0210)Arg+(-0.1559)Met;0.800,0.835,0.772,0.791,0.750,0.816,0.736,0.773,(0.4615)+(0.0475)Ser+(-0.1489)Asn+(-0.0060)Ala+(-0.0782)Cit+(-0.0486)Tyr+(0.1077)Phe;0.800,0.833,0.813,0.802,0.842,0.828,0.768,0.810,(6.5326)+(0.0045)Gly+(-0.0726)Cit+(0.0279)Tyr+(-0.1263)Met+(0.0203)Leu+(-0.1541)Trp;0.800,0.831,0.803,0.807,0.820,0.816,0.750,0.798,(7.4366)+(-0.0584)Asn+(0.0040)Gly+(-0.0722)Cit+(0.0090)Pro+(0.0057)Lys+(-0.1447)Trp;0.800,0.828,0.731,0.705,0.749,0.830,0.693,0.744,(4.1354)+(0.0358)Ser+(-0.1393)His+(0.0035)Thr+(-0.0195)Arg+(0.0018)Val+(0.0264)Orn;0.800,0.826,0.760,0.735,0.756,0.829,0.786

,0.777,(2.8705)+(0.0027)Gly+(0.0103)Gln+(-0.1540)His+(-0.0388)Cit+(-0.0155)Arg+(0.0497)Ile;0.800,0.825,0.748,0.732,0.707,0.814,0.827,0.770,(5.6919)+(-0.0910)His+(-0.0221)Tyr+(-0.0308)Val+(0.0006)Lys+(0.1388)Ile+(-0.0112)Leu;0.800,0.834,0.779,0.775,0.772,0.825,0.768,0.785,(3.2454)+(0.0312)Ser+(0.0037)Thr+(-0.0054)Ala+(-0.0091)Lys+(0.0217)Leu+(-0.1517)Trp;0.800,0.834,0.768,0.771,0.771,0.802,0.730,0.769,(3.1072)+(0.0309)Ser+(0.0000)Gln+(-0.0028)Thr+(0.0059)Pro+(-0.0056)Lys+(-0.1478)Trp;0.800,0.832,0.749,0.710,0.753,0.834,0.783,0.770,(5.5878)+(-0.1001)His+(-0.0713)Cit+(0.0443)Orn+(-0.0061)Lys+(0.1104)Ile+(-0.0492)Leu;0.800,0.835,0.762,0.749,0.766,0.848,0.728,0.773,(4.6839)+(0.0405)Ser+(-0.0045)Gly+(-0.1179)His+(0.0182)Thr+(-0.1694)Met+(0.0039)Lys;0.800,0.826,0.758,0.743,0.736,0.818,0.800,0.775,(6.0339)+(-0.0923)His+(-0.0404)Cit+(-0.0291)Tyr+(0.0027)Lys+(0.1242)Ile+(-0.0507)Leu;0.800,0.832,0.788,0.772,0.788,0.810,0.815,0.796,(8.1344)+(-0.0935)His+(-0.0017)Arg+(-0.0159)Val+(0.0059)Lys+(0.0467)Leu+(-0.1117)Trp;0.800,0.832,0.823,0.818,0.842,0.825,0.792,0.819,(8.0014)+(-0.0232)Asn+(-0.0611)Cit+(0.0097)Pro+(0.0164)Tyr+(-0.0856)Met+(-0.1376)Trp;0.800,0.830,0.734,0.707,0.730,0.799,0.765,0.751,(6.1772)+(-0.0413)Asn+(-0.1326)His+(0.0187)Thr+(-0.0406)Tyr+(0.0233)Orn+(0.0475)Ile;0.800,0.830,0.799,0.789,0.791,0.844,0.812,0.809,(3.7024)+(-0.0246)Asn+(0.0017)Gly+(0.0116)Gln+(-0.1455)His+(-0.1231)Met+(0.0208)Leu;0.800,0.828,0.801,0.802,0.827,0.825,0.729,0.796,(7.0110)+(0.0006)Gly+(0.0153)Thr+(-0.0778)Cit+(0.0044)Val+(-0.0043)Lys+(-0.1613)Trp;0.800,0.836,0.787,0.781,0.795,0.798,0.780,0.789,(5.9607)+(-0.0680)Asn+(0.0172)Thr+(-0.0175)Arg+(0.0066)Orn+(0.0468)Ile+(-0.1605)Trp;0.800,0.835,0.805,0.778,0.815,0.832,0.836,0.815,(8.3023)+(-0.0836)His+(0.0314)Tyr+(-0.0210)Val+(-0.0944)Met+(0.0581)Leu+(-0.1101)Trp;0.800,0.829,0.798,0.787,0.787,0.850,0.816,0.810,(3.6770)+(0.0015)Gly+(0.0110)Gln+(-0.1463)His+(-0.0021)Ala+(-0.1306)Met

+(0.0233)Leu;0.800,0.829,0.795,0.785,0.799,0.800,0.812,0.799,(5.6959)+(-0.0132)Asn+(-0.1606)Met+(0.0104)Orn+(0.0010)Lys+(0.0606)Ile+(-0.1432)Trp;0.800,0.827,0.793,0.791,0.789,0.843,0.774,0.799,(4.7685)+(-0.0682)Asn+(0.0115)Gln+(-0.1439)His+(0.0165)Thr+(-0.0209)Arg+(0.0035)Pro;0.800,0.836,0.805,0.794,0.815,0.830,0.792,0.808,(8.5673)+(-0.0700)His+(-0.0392)Cit+(0.0025)Arg+(0.0084)Pro+(0.0094)Tyr+(-0.1115)Trp;0.800,0.834,0.819,0.817,0.824,0.832,0.802,0.819,(7.5335)+(-0.0066)Ala+(-0.0740)Cit+(0.0031)Arg+(0.0139)Pro+(0.0061)Tyr+(-0.1417)Trp;0.800,0.833,0.792,0.800,0.786,0.837,0.749,0.793,(3.7060)+(0.0278)Ser+(-0.0043)Ala+(-0.0014)Tyr+(0.0206)Orn+(-0.0053)Lys+(-0.1392)Trp;0.800,0.829,0.795,0.788,0.781,0.816,0.827,0.803,(5.2733)+(0.0010)Gly+(-0.0080)Ala+(-0.0141)Arg+(0.0125)Orn+(0.0649)Ile+(-0.1528)Trp;0.800,0.825,0.784,0.774,0.774,0.842,0.790,0.795,(4.1271)+(0.0100)Gln+(-0.1597)His+(0.0141)Thr+(-0.0039)Ala+(-0.0218)Arg+(0.0164)Leu;0.800,0.835,0.794,0.787,0.785,0.813,0.818,0.801,(3.1436)+(0.0377)Ser+(-0.0071)Gly+(0.0007)Gln+(-0.0050)Ala+(0.0154)Leu+(-0.1558)Trp;0.800,0.833,0.746,0.756,0.753,0.778,0.681,0.742,(-2.7773)+(0.0506)Ser+(-0.1007)Asn+(0.0145)Thr+(-0.3537)Met+(-0.0001)Orn+(0.1115)Phe;0.800,0.825,0.804,0.794,0.787,0.848,0.833,0.816,(4.3215)+(-0.0535)Asn+(0.0113)Gln+(-0.1444)His+(-0.0031)Ala+(-0.0075)Tyr+(0.0171)Leu;0.799,0.830,0.742,0.703,0.745,0.829,0.778,0.763,(5.1320)+(-0.1096)His+(0.0041)Thr+(-0.0674)Cit+(0.0382)Orn+(0.1065)Ile+(-0.0490)Leu;0.799,0.836,0.776,0.778,0.772,0.748,0.795,0.773,(3.7394)+(-0.0160)Arg+(0.0012)Pro+(-0.0340)Tyr+(0.0432)Ile+(0.0715)Phe+(-0.1695)Trp;0.799,0.832,0.810,0.818,0.828,0.819,0.748,0.803,(5.4279)+(0.0044)Gln+(0.0104)Thr+(-0.0806)Cit+(-0.0089)Tyr+(0.0038)Val+(-0.1656)Trp;0.799,0.828,0.770,0.729,0.769,0.851,0.820,0.792,(6.4349)+(-0.1034)His+(-0.0085)Ala+(-0.0804)Cit+(0.0497)Orn+(-0.0082)Lys+(0.0591)Ile;0.799,0.826,0.737,0.713,0.7

12,0.817,0.796,0.759,(5.8650)+(-0.1017)His+(0.0181)Thr+(-0.0244)Arg+(-0.0017)Pro+(-0.0381)Val+(0.1384)Ile;0.799,0.823,0.732,0.707,0.707,0.814,0.789,0.754,(5.6601)+(0.0012)Gly+(-0.1020)His+(0.0171)Thr+(-0.0251)Arg+(-0.0379)Val+(0.1363)Ile;0.799,0.833,0.802,0.813,0.821,0.819,0.722,0.793,(7.0999)+(-0.0025)Gly+(0.0274)Thr+(-0.0161)Arg+(-0.1660)Met+(0.0213)Orn+(-0.1410)Trp;0.799,0.832,0.807,0.802,0.817,0.826,0.785,0.807,(6.9921)+(0.0038)Gly+(-0.0595)Cit+(-0.0197)Val+(-0.0961)Met+(0.0535)Leu+(-0.1411)Trp;0.799,0.829,0.738,0.717,0.743,0.831,0.718,0.752,(4.4264)+(0.0411)Ser+(-0.0716)Asn+(-0.1232)His+(0.0048)Thr+(0.0071)Pro+(0.0002)Lys;0.799,0.828,0.754,0.730,0.745,0.822,0.785,0.771,(6.2006)+(-0.0310)Asn+(-0.1105)His+(0.0160)Thr+(-0.0167)Arg+(0.1078)Ile+(-0.0457)Leu;0.799,0.837,0.787,0.781,0.793,0.798,0.781,0.788,(5.9823)+(-0.0676)Asn+(0.0003)Gly+(0.0178)Thr+(-0.0166)Arg+(0.0490)Ile+(-0.1607)Trp;0.799,0.832,0.775,0.781,0.768,0.788,0.766,0.776,(5.4723)+(0.0112)Thr+(0.0052)Pro+(-0.0202)Tyr+(-0.0253)Val+(0.0476)Leu+(-0.1544)Trp;0.799,0.831,0.811,0.827,0.826,0.828,0.728,0.802,(7.5448)+(-0.0022)Gly+(0.0305)Thr+(-0.0013)Ala+(-0.0126)Arg+(-0.1536)Met+(-0.1390)Trp;0.799,0.830,0.778,0.782,0.768,0.771,0.796,0.779,(4.3303)+(-0.0029)Gly+(0.0023)Gln+(0.0079)Thr+(-0.0314)Tyr+(0.0507)Ile+(-0.1678)Trp;0.799,0.825,0.759,0.740,0.747,0.821,0.789,0.774,(3.2819)+(0.0019)Gly+(0.0090)Gln+(-0.1433)His+(-0.0490)Cit+(-0.0262)Tyr+(0.0550)Ile;0.799,0.832,0.829,0.847,0.826,0.831,0.787,0.822,(5.8042)+(-0.1136)Asn+(0.0057)Gln+(0.0155)Thr+(-0.0038)Val+(0.0022)Lys+(-0.1414)Trp;0.799,0.832,0.803,0.805,0.795,0.830,0.796,0.806,(4.2596)+(0.0396)Ser+(-0.0078)Gly+(-0.0026)Ala+(-0.0012)Tyr+(-0.0034)Lys+(-0.1395)Trp;0.799,0.837,0.772,0.759,0.777,0.783,0.786,0.776,(3.0349)+(0.0395)Ser+(-0.0082)Gly+(-0.0005)Gln+(0.0041)Pro+(0.0070)Leu+(-0.1633)Trp;0.799,0.835,0.788,0.792,0.786,0.802,0.776,0.789,(3.7215)+(0.0373)Ser+(-0.0089)Gly+(0.0003)Gln+(-0.0195)T

yr+(0.0170)Orn+(-0.1471)Trp;0.799,0.834,0.758,0.758,0.760,0.793,0.727,0.760,(2.9928)+(0.0318)Ser+(0.0049)Pro+(-0.0142)Tyr+(-0.0088)Lys+(0.0141)Leu+(-0.1524)Trp;0.799,0.829,0.733,0.701,0.741,0.823,0.736,0.750,(4.0168)+(0.0457)Ser+(-0.0543)Asn+(-0.1339)His+(-0.0083)Tyr+(-0.0042)Lys+(0.0243)Leu;0.799,0.829,0.735,0.728,0.642,0.841,0.870,0.770,(-0.9649)+(0.0210)Ser+(-0.0127)Ala+(-0.0546)Val+(0.0037)Orn+(0.1663)Ile+(0.0372)Phe;0.799,0.828,0.757,0.739,0.751,0.814,0.778,0.770,(1.7312)+(0.0034)Gly+(0.0088)Gln+(-0.1676)His+(-0.0466)Cit+(0.0000)Pro+(0.0809)Phe;0.799,0.827,0.770,0.750,0.763,0.815,0.807,0.784,(2.0413)+(0.0097)Gln+(-0.1675)His+(-0.0421)Cit+(-0.0001)Pro+(0.0006)Leu+(0.0754)Phe;0.799,0.826,0.747,0.732,0.724,0.809,0.792,0.764,(5.5250)+(0.0025)Gly+(-0.1072)His+(-0.0014)Pro+(-0.0247)Tyr+(0.1166)Ile+(-0.0445)Leu;0.799,0.823,0.719,0.677,0.736,0.823,0.718,0.739,(3.5273)+(0.0432)Ser+(-0.1388)His+(-0.0335)Cit+(0.0040)Pro+(-0.0097)Lys+(0.0229)Leu;0.799,0.833,0.800,0.787,0.806,0.802,0.821,0.804,(5.6938)+(-0.0073)Asn+(0.0022)Pro+(0.0131)Tyr+(-0.1846)Met+(0.0620)Ile+(-0.1457)Trp;0.799,0.831,0.790,0.783,0.792,0.842,0.769,0.797,(4.7589)+(-0.0669)Asn+(0.0109)Gln+(-0.1452)His+(0.0150)Thr+(-0.0217)Arg+(0.0209)Orn;0.799,0.827,0.735,0.706,0.736,0.833,0.742,0.754,(3.7702)+(0.0422)Ser+(-0.1403)His+(-0.0036)Ala+(-0.0117)Arg+(-0.0048)Tyr+(0.0243)Leu;0.799,0.824,0.725,0.687,0.732,0.826,0.737,0.746,(3.7727)+(0.0420)Ser+(-0.1334)His+(-0.0268)Cit+(-0.0151)Val+(-0.0087)Lys+(0.0474)Leu;0.799,0.838,0.748,0.734,0.767,0.839,0.676,0.754,(4.5652)+(0.0392)Ser+(-0.1278)His+(0.0202)Thr+(-0.0131)Arg+(0.0081)Val+(-0.1685)Met;0.799,0.833,0.804,0.817,0.819,0.815,0.731,0.796,(4.8427)+(0.0052)Gln+(0.0274)Thr+(-0.0175)Arg+(-0.2121)Met+(0.0158)Leu+(-0.1526)Trp;0.799,0.833,0.749,0.729,0.735,0.819,0.783,0.766,(3.8607)+(0.0043)Gly+(-0.1439)His+(-0.0051)Ala+(0.0223)Orn+(0.0017)Leu+(0.0769)Phe;0.799,0.831,0.792,0.773,0.801,0.816,0.810,0.800,(8.400

7)+(-0.0831)His+(-0.0308)Cit+(-0.0139)Val+(0.0047)Lys+(0.0453)Leu+(-0.1167)Trp;0.799,0.830,0.767,0.763,0.710,0.858,0.830,0.790,(0.7986)+(0.0422)Ser+(-0.0066)Gly+(-0.0112)Ala+(-0.0351)Arg+(0.1934)Ile+(-0.0952)Leu;0.799,0.830,0.720,0.682,0.744,0.824,0.697,0.737,(3.7421)+(0.0360)Ser+(-0.1358)His+(-0.0622)Cit+(-0.0250)Tyr+(0.0413)Orn+(0.0163)Leu;0.799,0.827,0.742,0.727,0.733,0.842,0.730,0.758,(4.1907)+(0.0402)Ser+(-0.1246)His+(-0.0054)Ala+(-0.0167)Arg+(0.0121)Pro+(0.0026)Lys;0.799,0.825,0.755,0.736,0.746,0.846,0.759,0.772,(4.6859)+(0.0406)Ser+(-0.0051)Gly+(-0.1278)His+(0.0066)Thr+(-0.0021)Ala+(-0.0025)Lys;0.799,0.828,0.808,0.808,0.810,0.816,0.795,0.807,(8.6717)+(-0.0189)Asn+(-0.0824)His+(-0.0006)Ala+(-0.0052)Arg+(0.0137)Lys+(-0.1033)Trp;0.799,0.835,0.789,0.792,0.786,0.803,0.775,0.789,(3.8396)+(0.0374)Ser+(-0.0088)Gly+(-0.0187)Tyr+(-0.0008)Val+(0.0179)Orn+(-0.1457)Trp;0.799,0.838,0.811,0.823,0.800,0.785,0.823,0.808,(3.8698)+(-0.0052)Ala+(-0.0221)Tyr+(-0.0021)Lys+(0.0051)Leu+(0.0918)Phe+(-0.1557)Trp;0.799,0.836,0.731,0.711,0.733,0.781,0.744,0.742,(-4.4990)+(0.0620)Ser+(-0.0051)Gly+(-0.0180)Arg+(-0.4176)Met+(0.0540)Ile+(0.0896)Phe;0.799,0.836,0.773,0.762,0.771,0.850,0.752,0.784,(0.4728)+(0.0436)Ser+(-0.1617)Asn+(-0.0102)Ala+(-0.1158)Cit+(0.0454)Orn+(0.0720)Phe;0.799,0.834,0.780,0.770,0.765,0.821,0.812,0.792,(1.1065)+(-0.0728)Cit+(0.0001)Arg+(-0.2965)Met+(0.1806)Ile+(-0.0976)Leu+(0.1138)Phe;0.799,0.831,0.796,0.787,0.798,0.799,0.813,0.799,(5.9029)+(-0.0073)Asn+(-0.0020)Arg+(0.0030)Pro+(-0.1617)Met+(0.0619)Ile+(-0.1424)Trp;0.799,0.830,0.799,0.786,0.806,0.804,0.816,0.803,(5.5964)+(-0.0105)Asn+(0.0120)Tyr+(-0.1791)Met+(0.0091)Orn+(0.0611)Ile+(-0.1453)Trp;0.799,0.830,0.737,0.719,0.740,0.827,0.718,0.751,(4.4001)+(0.0428)Ser+(-0.0608)Asn+(-0.1207)His+(0.0085)Pro+(-0.0145)Tyr+(0.0024)Val;0.799,0.829,0.807,0.794,0.823,0.823,0.796,0.809,(8.6782)+(-0.0034)Asn+(-0.0766)His+(-0.0439)Cit+(0.0087)Arg+(0.0096)Val+(-0.1148)

Trp;0.799,0.829,0.738,0.758,0.738,0.766,0.665,0.732,(-2.2633)+(0.0486)Ser+(-0.1065)Asn+(0.0172)Thr+(-0.0302)Tyr+(-0.3124)Met+(0.1210)Phe;0.799,0.827,0.806,0.800,0.811,0.826,0.799,0.809,(8.6554)+(0.0084)Asn+(-0.0859)His+(-0.0012)Ala+(0.0092)Val+(-0.0219)Met+(-0.1035)Trp;0.799,0.826,0.763,0.723,0.760,0.846,0.818,0.787,(5.9389)+(-0.1102)His+(-0.0098)Ala+(-0.0776)Cit+(0.0047)Pro+(0.0436)Orn+(0.0515)Ile;0.799,0.824,0.731,0.705,0.730,0.817,0.741,0.748,(3.9769)+(0.0445)Ser+(-0.0053)Gly+(-0.1324)His+(0.0077)Pro+(-0.0234)Tyr+(0.0037)Val;0.799,0.833,0.810,0.804,0.822,0.851,0.772,0.812,(8.4417)+(0.0048)Gly+(-0.0744)His+(-0.0017)Ala+(-0.0420)Cit+(0.0292)Tyr+(-0.1082)Trp;0.799,0.832,0.813,0.833,0.806,0.812,0.772,0.806,(5.6699)+(-0.1069)Asn+(0.0055)Gln+(0.0153)Thr+(0.0048)Pro+(-0.0163)Tyr+(-0.1419)Trp;0.799,0.831,0.816,0.822,0.832,0.844,0.744,0.811,(7.4127)+(0.0002)Gly+(0.0177)Thr+(-0.0035)Ala+(-0.0703)Cit+(-0.0012)Lys+(-0.1485)Trp;0.799,0.831,0.800,0.802,0.794,0.848,0.774,0.805,(4.6885)+(-0.0474)Asn+(0.0100)Gln+(-0.1332)His+(0.0224)Thr+(-0.1518)Met+(0.0043)Lys;0.799,0.830,0.717,0.689,0.657,0.809,0.853,0.752,(-0.4563)+(0.0441)Ser+(-0.0099)Gly+(-0.0535)Val+(-0.0281)Lys+(0.1598)Ile+(0.0448)Phe;0.799,0.830,0.735,0.701,0.751,0.831,0.725,0.752,(3.9786)+(0.0434)Ser+(-0.0042)Gly+(-0.1358)His+(-0.0189)Arg+(0.0055)Pro+(0.0249)Orn;0.799,0.829,0.762,0.737,0.768,0.829,0.766,0.775,(6.5130)+(-0.1264)His+(0.0314)Thr+(-0.0043)Ala+(0.0081)Pro+(-0.2028)Met+(0.0238)Leu;0.799,0.828,0.797,0.797,0.791,0.847,0.774,0.802,(4.8770)+(-0.0667)Asn+(0.0116)Gln+(-0.1442)His+(0.0175)Thr+(-0.0208)Arg+(0.0007)Val;0.799,0.836,0.763,0.757,0.779,0.822,0.702,0.765,(-2.2637)+(0.0443)Ser+(-0.0061)Ala+(-0.1086)Cit+(-0.3172)Met+(0.0358)Orn+(0.1117)Phe;0.799,0.834,0.775,0.786,0.780,0.811,0.708,0.771,(3.4480)+(0.0306)Ser+(0.0010)Gln+(-0.0224)Arg+(0.0072)Pro+(-0.0016)Val+(-0.1495)Trp;0.799,0.834,0.769,0.776,0.778,0.811,0.700,0.766,(3.6691)+(0.0315)Ser+(0.00

24)Thr+(-0.0217)Arg+(0.0068)Pro+(-0.0018)Lys+(-0.1502)Trp;0.799,0.832,0.829,0.835,0.817,0.829,0.835,0.829,(4.6543)+(0.0056)Gln+(-0.0259)Val+(-0.1771)Met+(0.0044)Lys+(0.0555)Leu+(-0.1379)Trp;0.799,0.828,0.801,0.795,0.755,0.880,0.853,0.821,(4.8641)+(-0.0626)Asn+(0.0081)Thr+(-0.0112)Ala+(-0.0844)Cit+(0.1714)Ile+(-0.0787)Leu;0.799,0.827,0.738,0.717,0.728,0.798,0.774,0.754,(6.4284)+(-0.0354)Asn+(-0.1279)His+(0.0214)Thr+(-0.0349)Tyr+(-0.0032)Lys+(0.0535)Ile;0.799,0.838,0.798,0.815,0.796,0.752,0.790,0.788,(3.7324)+(-0.0003)Gly+(-0.0325)Tyr+(-0.0027)Lys+(0.0005)Leu+(0.0913)Phe+(-0.1583)Trp;0.799,0.837,0.751,0.741,0.735,0.852,0.735,0.766,(1.7356)+(0.0416)Ser+(-0.1160)Asn+(-0.0637)Cit+(-0.0169)Arg+(0.1596)Ile+(-0.0813)Leu;0.799,0.835,0.769,0.766,0.747,0.799,0.805,0.779,(-0.3464)+(0.0035)Gly+(-0.3391)Met+(-0.0066)Orn+(0.1779)Ile+(-0.0963)Leu+(0.1118)Phe;0.799,0.829,0.763,0.748,0.739,0.815,0.812,0.779,(6.2021)+(-0.0154)Asn+(-0.0980)His+(-0.0010)Pro+(-0.0259)Tyr+(0.1187)Ile+(-0.0472)Leu;0.799,0.838,0.754,0.744,0.729,0.845,0.766,0.771,(0.1751)+(0.0441)Ser+(-0.0515)Asn+(-0.2553)Met+(-0.0012)Lys+(0.1642)Ile+(-0.0718)Leu;0.799,0.837,0.781,0.773,0.790,0.754,0.800,0.779,(3.3869)+(0.0013)Gly+(-0.0200)Arg+(-0.0008)Pro+(0.0437)Ile+(0.0567)Phe+(-0.1804)Trp;0.799,0.835,0.743,0.711,0.762,0.830,0.729,0.758,(3.5797)+(0.0477)Ser+(-0.1260)His+(-0.0290)Cit+(-0.0006)Arg+(-0.1575)Met+(0.0305)Leu;0.799,0.834,0.755,0.746,0.768,0.851,0.679,0.761,(4.8016)+(0.0354)Ser+(-0.1141)His+(0.0200)Thr+(-0.0335)Cit+(-0.1727)Met+(0.0047)Lys;0.799,0.833,0.836,0.845,0.819,0.836,0.849,0.837,(5.4871)+(-0.1045)Asn+(0.0064)Gln+(-0.0269)Val+(0.0035)Lys+(0.0500)Leu+(-0.1374)Trp;0.799,0.830,0.750,0.728,0.759,0.832,0.731,0.762,(4.7381)+(0.0424)Ser+(-0.0052)Gly+(-0.1263)His+(-0.0170
)Arg+(-0.0180)Tyr+(0.0344)Orn;0.799,0.826,0.757,0.729,0.734,0.836,0.820,0.780,(5.3733)+(0.0042)Gly+(-0.1235)His+(-0.0074)Ala+(0.0039)Pro+(

-0.0023)Lys+(0.0587)Ile;0.799,0.836,0.771,0.775,0.739,0.790,0.812,0.779,(0.4910)+(-0.0336)Tyr+(-0.2742)Met+(0.0003)Orn+(0.1758)Ile+(-0.0969)Leu+(0.1161)Phe;0.799,0.831,0.740,0.722,0.751,0.833,0.695,0.750,(4.7513)+(0.0419)Ser+(-0.0618)Asn+(-0.1220)His+(0.0085)Thr+(-0.0154)Arg+(0.0075)Pro;0.799,0.831,0.804,0.810,0.801,0.831,0.778,0.805,(4.5253)+(0.0411)Ser+(-0.0075)Gly+(-0.0023)Ala+(-0.0151)Arg+(0.0002)Lys+(-0.1399)Trp;0.799,0.830,0.808,0.818,0.811,0.817,0.767,0.803,(6.9553)+(-0.0375)Asn+(0.0085)Pro+(-0.0046)Val+(-0.1055)Met+(0.0273)Orn+(-0.1208)Trp;0.799,0.830,0.810,0.812,0.830,0.835,0.746,0.806,(7.2370)+(0.0177)Thr+(-0.0045)Ala+(-0.0740)Cit+(-0.0039)Arg+(0.0060)Val+(-0.1574)Trp;0.799,0.829,0.815,0.819,0.829,0.816,0.774,0.810,(5.2698)+(0.0054)Gln+(-0.0797)Cit+(-0.0061)Arg+(0.0071)Pro+(0.0019)Val+(-0.1632)Trp;0.799,0.828,0.802,0.791,0.818,0.815,0.789,0.803,(8.4171)+(-0.0827)His+(-0.0374)Cit+(0.0027)Arg+(0.0079)Val+(0.0073)Lys+(-0.1170)Trp;0.799,0.831,0.797,0.796,0.822,0.816,0.734,0.792,(7.0735)+(0.0145)Thr+(-0.0727)Cit+(-0.0068)Arg+(0.0070)Pro+(-0.0016)Lys+(-0.1592)Trp;0.799,0.829,0.814,0.813,0.819,0.827,0.795,0.813,(8.8894)+(-0.0211)Asn+(-0.0722)His+(-0.0007)Ala+(-0.0297)Cit+(0.0124)Lys+(-0.1058)Trp;0.799,0.825,0.723,0.689,0.726,0.808,0.746,0.742,(3.7704)+(0.0430)Ser+(-0.0051)Gly+(-0.1467)His+(0.0067)Thr+(-0.0236)Tyr+(0.0213)Leu;0.799,0.832,0.817,0.816,0.821,0.831,0.800,0.817,(7.3770)+(-0.0066)Ala+(-0.0722)Cit+(0.0139)Pro+(0.0047)Tyr+(0.0033)Lys+(-0.1441)Trp;0.799,0.829,0.804,0.799,0.793,0.855,0.803,0.812,(4.5156)+(-0.0365)Asn+(0.0103)Gln+(-0.1320)His+(-0.0015)Ala+(-0.0738)Met+(0.0266)Orn;0.799,0.835,0.778,0.758,0.761,0.830,0.828,0.794,(6.2152)+(-0.0879)His+(0.0008)Pro+(-0.0042)Tyr+(-0.1468)Met+(0.1314)Ile+(-0.0498)Leu;0.799,0.834,0.835,0.853,0.827,0.841,0.797,0.830,(5.2946)+(-0.0617)Asn+(0.0066)Gln+(-0.0025)Val+(-0.0983)Met+(0.0237)Orn+(-0.1288)Trp;0.799,0.832,0.787,0.772,0.786,0.840,0.794,0.798,(3.

5753)+(0.0012)Gly+(0.0102)Gln+(-0.1489)His+(-0.1436)Met+(0.0179)Orn+(0.0187)Leu;0.799,0.825,0.764,0.739,0.749,0.846,0.802,0.784,(5.8144)+(-0.0210)Asn+(0.0067)Gly+(-0.1074)His+(-0.0076)Ala+(-0.0561)Cit+(0.0691)Ile;0.799,0.836,0.760,0.754,0.772,0.853,0.683,0.765,(5.4260)+(0.0377)Ser+(-0.0330)Asn+(-0.1121)His+(0.0212)Thr+(-0.0125)Arg+(-0.1227)Met;0.799,0.834,0.759,0.745,0.692,0.855,0.865,0.790,(0.6419)+(0.0413)Ser+(-0.0082)Gly+(-0.0116)Ala+(-0.0169)Lys+(0.1715)Ile+(-0.0766)Leu;0.799,0.834,0.813,0.811,0.799,0.838,0.829,0.819,(6.9966)+(-0.0713)Asn+(-0.0035)Ala+(-0.0315)Val+(0.0338)Orn+(0.0590)Leu+(-0.1259)Trp;0.799,0.832,0.838,0.852,0.842,0.844,0.790,0.832,(5.2578)+(0.0070)Gln+(-0.0623)Cit+(-0.0020)Arg+(-0.1076)Met+(0.0052)Lys+(-0.1423)Trp;0.799,0.832,0.733,0.706,0.756,0.836,0.684,0.746,(4.4205)+(0.0322)Ser+(-0.1250)His+(0.0026)Thr+(-0.0674)Cit+(-0.0205)Tyr+(0.0480)Orn;0.799,0.830,0.793,0.780,0.801,0.804,0.807,0.798,(5.0664)+(0.0020)Gly+(0.0153)Tyr+(-0.1998)Met+(0.0062)Orn+(0.0640)Ile+(-0.1463)Trp;0.799,0.828,0.775,0.749,0.785,0.807,0.798,0.785,(4.1287)+(0.0183)Asn+(-0.1297)His+(-0.1974)Met+(0.0238)Orn+(0.0019)Leu+(0.1058)Phe;0.799,0.828,0.720,0.679,0.719,0.797,0.778,0.743,(3.3663)+(0.0047)Gly+(-0.1553)His+(-0.0035)Pro+(0.0136)Orn+(0.0347)Ile+(0.0540)Phe;0.799,0.824,0.733,0.697,0.733,0.824,0.763,0.754,(3.8279)+(0.0464)Ser+(-0.0042)Gly+(-0.1367)His+(-0.0120)Arg+(-0.0180)Val+(0.0455)Leu;0.799,0.835,0.756,0.740,0.769,0.850,0.702,0.765,(4.3534)+(0.0390)Ser+(-0.1212)His+(-0.0147)Arg+(-0.1188)Met+(0.0326)Orn+(0.0048)Lys;0.799,0.834,0.774,0.784,0.780,0.811,0.708,0.771,(3.3668)+(0.0311)Ser+(0.0010)Gln+(-0.0217)Arg+(0.0068)Pro+(-0.0015)Lys+(-0.1503)Trp;0.799,0.833,0.810,0.810,0.786,0.826,0.849,0.818,(4.0988)+(0.0046)Gln+(-0.0081)Ala+(-0.0167)Arg+(-0.0025)Tyr+(0.0680)Ile+(-0.1593)Trp;0.799,0.829,0.786,0.774,0.782,0.837,0.786,0.795,(4.6613)+(-0.0756)Asn+(0.0095)Gln+(-0.1430)His+(0.0114)Thr+(0.0198)Orn+(-0.0020)Lys;

0.799,0.835,0.781,0.771,0.783,0.794,0.794,0.785,(2.8473)+(0.0397)Ser+(-0.0080)Gly+(-0.0043)Thr+(0.0109)Orn+(0.0076)Leu+(-0.1595)Trp;0.799,0.826,0.740,0.717,0.740,0.785,0.770,0.753,(4.5973)+(-0.1481)His+(0.0176)Thr+(0.0009)Pro+(-0.0060)Val+(-0.0069)Lys+(0.0876)Phe;0.799,0.825,0.730,0.697,0.724,0.789,0.788,0.749,(4.2975)+(-0.1513)His+(0.0162)Thr+(0.0004)Pro+(-0.0219)Val+(0.0327)Leu+(0.0721)Phe;0.799,0.840,0.789,0.780,0.796,0.765,0.817,0.789,(3.8355)+(-0.0150)Arg+(-0.0008)Pro+(-0.0069)Lys+(0.0473)Ile+(0.0592)Phe+(-0.1747)Trp;0.799,0.834,0.781,0.770,0.765,0.820,0.812,0.792,(1.1157)+(-0.0727)Cit+(-0.2961)Met+(-0.0001)Lys+(0.1806)Ile+(-0.0975)Leu+(0.1138)Phe;0.799,0.829,0.818,0.803,0.832,0.836,0.813,0.821,(8.9348)+(-0.0762)His+(-0.0029)Ala+(-0.0426)Cit+(0.0216)Tyr+(0.0099)Val+(-0.1183)Trp;0.799,0.829,0.705,0.671,0.713,0.807,0.708,0.725,(3.2677)+(0.0363)Ser+(-0.1473)His+(0.0048)Pro+(-0.0267)Tyr+(0.0201)Orn+(0.0166)Leu;0.799,0.827,0.742,0.746,0.656,0.843,0.841,0.771,(1.1598)+(0.0204)Ser+(-0.0099)Ala+(-0.0268)Tyr+(-0.0378)Val+(0.1946)Ile+(-0.0359)Leu;0.799,0.826,0.713,0.678,0.721,0.812,0.721,0.733,(3.4256)+(0.0416)Ser+(-0.1426)His+(0.0051)Pro+(-0.0164)Tyr+(-0.0075)Lys+(0.0227)Leu;0.799,0.823,0.787,0.770,0.767,0.847,0.832,0.804,(4.1683)+(0.0092)Gln+(-0.1469)His+(-0.0034)Ala+(-0.0143)Val+(-0.0039)Lys+(0.0401)Leu;0.799,0.835,0.743,0.710,0.761,0.830,0.730,0.758,(3.6104)+(0.0481)Ser+(-0.1255)His+(-0.0297)Cit+(-0.1533)Met+(-0.0017)Lys+(0.0312)Leu;0.799,0.832,0.731,0.691,0.738,0.793,0.775,0.750,(4.6601)+(-0.1521)His+(0.0204)Thr+(-0.0141)Arg+(-0.0098)Lys+(0.0340)Ile+(0.0624)Phe;0.799,0.827,0.748,0.724,0.753,0.833,0.741,0.763,(4.6249)+(0.0476)Ser+(-0.0636)Asn+(-0.0030)Gly+(-0.1143)His+(-0.0270)Cit+(0.0080)Pro;0.799,0.823,0.755,0.726,0.740,0.843,0.801,0.778,(5.3602)+(0.0062)Gly+(-0.1103)His+(-0.0092)Ala+(-0.0591)Cit+(0.0057)Pro+(0.0652)Ile;0.799,0.823,0.758,0.761,0.698,0.828,0.826,0.778,(5.7459)+(-0.1505)Asn+(0.0007)G

ly+(0.0199)Thr+(-0.0334)Tyr+(-0.0561)Val+(0.1715)Ile;0.799,0.837,0.821,0.827,0.818,0.794,0.826,0.817,(4.1367)+(-0.0058)Ala+(-0.0145)Arg+(0.0008)Lys+(0.0041)Leu+(0.0866)Phe+(-0.1610)Trp;0.799,0.836,0.811,0.821,0.813,0.826,0.771,0.808,(4.6504)+(0.0044)Gln+(0.0235)Thr+(-0.0031)Ala+(-0.2022)Met+(0.0184)Leu+(-0.1526)Trp;0.799,0.832,0.796,0.783,0.803,0.799,0.814,0.800,(5.4148)+(0.0019)Pro+(0.0116)Tyr+(-0.1929)Met+(0.0075)Orn+(0.0605)Ile+(-0.1460)Trp;0.799,0.832,0.796,0.797,0.790,0.850,0.770,0.802,(4.5165)+(-0.0005)Gly+(0.0095)Gln+(-0.1388)His+(0.0221)Thr+(0.0087)Tyr+(-0.1822)Met;0.799,0.831,0.819,0.828,0.837,0.829,0.751,0.811,(5.7365)+(-0.0010)Gly+(0.0048)Gln+(0.0132)Thr+(-0.0705)Cit+(-0.0109)Arg+(-0.1622)Trp;0.799,0.830,0.813,0.819,0.827,0.822,0.765,0.808,(5.3027)+(0.0008)Gly+(0.0053)Gln+(-0.0789)Cit+(-0.0061)Arg+(0.0078)Pro+(-0.1599)Trp;0.799,0.828,0.752,0.728,0.736,0.823,0.799,0.771,(5.4330)+(-0.0310)Asn+(0.0041)Gly+(-0.1084)His+(-0.0027)Pro+(0.1143)Ile+(-0.0450)Leu;0.799,0.826,0.800,0.789,0.781,0.843,0.838,0.813,(4.5999)+(-0.0790)Asn+(0.0114)Gln+(-0.1342)His+(-0.0052)Tyr+(-0.0212)Val+(0.0461)Leu;0.799,0.820,0.727,0.687,0.729,0.819,0.762,0.749,(3.5973)+(0.0441)Ser+(-0.0037)Gly+(-0.1383)His+(-0.0209)Cit+(-0.0170)Val+(0.0443)Leu;0.799,0.837,0.716,0.701,0.725,0.775,0.697,0.725,(-4.8785)+(0.0557)Ser+(-0.0202)Arg+(0.0053)Pro+(-0.4393)Met+(0.0493)Ile+(0.0950)Phe;0.799,0.825,0.803,0.794,0.786,0.849,0.830,0.815,(4.5191)+(-0.0701)Asn+(0.0125)Gln+(-0.1361)His+(-0.0118)Arg+(-0.0207)Val+(0.0447)Leu;0.799,0.824,0.763,0.755,0.715,0.837,0.828,0.784,(5.7404)+(-0.1404)Asn+(0.0225)Thr+(-0.0218)Arg+(-0.0014)Pro+(-0.0608)Val+(0.1787)Ile;0.799,0.823,0.738,0.734,0.678,0.822,0.815,0.762,(2.0855)+(0.0391)Ser+(-0.0096)Gly+(-0.0313)Arg+(-0.0366)Tyr+(-0.0525)Val+(0.1634)Ile;0.799,0.823,0.766,0.744,0.762,0.823,0.792,0.780,(3.9546)+(-0.0002)Gly+(0.0087)Gln+(-0.1635)His+(0.0105)Thr+(-0.0082)Lys+(0.0166)Leu;0.799,0.832,0.768,0.771,0

.770,0.800,0.733,0.768,(2.9926)+(0.0302)Ser+(-0.0003)Gln+(-0.0051)Thr+(0.0062)Pro+(-0.0015)Val+(-0.1502)Trp;0.799,0.834,0.749,0.735,0.733,0.796,0.788,0.763,(4.5487)+(-0.1319)His+(-0.0409)Tyr+(-0.0194)Val+(0.0333)Orn+(0.0276)Leu+(0.0890)Phe;0.799,0.833,0.764,0.765,0.776,0.790,0.720,0.763,(0.7266)+(0.0452)Thr+(-0.0184)Arg+(-0.0536)Val+(-0.4562)Met+(0.0758)Leu+(0.1267)Phe;0.799,0.827,0.749,0.726,0.713,0.818,0.836,0.773,(5.4894)+(-0.0954)His+(-0.0021)Pro+(-0.0323)Val+(-0.0019)Lys+(0.1379)Ile+(-0.0089)Leu;0.799,0.844,0.723,0.705,0.738,0.782,0.702,0.731,(-4.0725)+(0.0547)Ser+(-0.0870)Cit+(-0.0191)Tyr+(-0.4040)Met+(0.0585)Ile+(0.1074)Phe;0.799,0.831,0.739,0.710,0.742,0.824,0.745,0.755,(4.1630)+(0.0407)Ser+(-0.0054)Gly+(-0.1356)His+(-0.0224)Tyr+(0.0032)Val+(0.0276)Orn;0.799,0.829,0.812,0.809,0.826,0.829,0.775,0.810,(6.9861)+(0.0040)Gly+(-0.0033)Ala+(-0.0703)Cit+(-0.0610)Met+(0.0241)Leu+(-0.1461)Trp;0.799,0.827,0.733,0.695,0.738,0.821,0.758,0.753,(3.7849)+(0.0482)Ser+(-0.0047)Gly+(-0.1404)His+(-0.0132)Tyr+(-0.0079)Lys+(0.0251)Leu;0.799,0.824,0.736,0.712,0.709,0.817,0.795,0.758,(5.8214)+(-0.0999)His+(0.0174)Thr+(-0.0250)Arg+(-0.0371)Val+(0.1404)Ile+(-0.0046)Leu;0.799,0.822,0.738,0.711,0.712,0.822,0.802,0.762,(5.1057)+(0.0034)Gly+(-0.0913)His+(-0.0424)Cit+(-0.0296)Val+(0.1390)Ile+(-0.0136)Leu;0.799,0.835,0.794,0.790,0.791,0.816,0.792,0.797,(3.7755)+(0.0417)Ser+(-0.0069)Gly+(-0.0040)Ala+(-0.0155)Arg+(0.0162)Leu+(-0.1516)Trp;0.799,0.833,0.825,0.837,0.824,0.815,0.801,0.819,(5.6324)+(-0.1090)Asn+(-0.0018)Gly+(0.0056)Gln+(0.0149)Thr+(0.0034)Pro+(-0.1484)Trp;0.799,0.832,0.805,0.797,0.768,0.874,0.853,0.823,(4.6489)+(-0.0092)Ala+(-0.0777)Cit+(0.0047)Arg+(-0.1544)Met+(0.1836)Ile+(-0.0777)Leu;0.799,0.831,0.795,0.794,0.821,0.811,0.734,0.790,(6.9193)+(0.0138)Thr+(-0.0736)Cit+(-0.0075)Arg+(0.0066)Pro+(0.0012)Val+(-0.1625)Trp;0.799,0.829,0.753,0.734,0.735,0.822,0.790,0.770,(6.4076)+(-0.1279)His+(0.0213)Thr+(-0.0056)Ala+(-0.

0135)Arg+(-0.0272)Tyr+(0.0609)Ile;0.799,0.828,0.734,0.710,0.741,0.782
,0.748,0.745,(4.2750)+(-0.0728)Asn+(0.0052)Gly+(-0.1482)His+(0.0183)T
hr+(-0.0000)Pro+(0.0855)Phe;0.799,0.827,0.724,0.688,0.723,0.825,0.746
,0.746,(3.6370)+(0.0410)Ser+(-0.1382)His+(-0.0043)Tyr+(-0.0167)Val+(-
0.0080)Lys+(0.0494)Leu;0.799,0.825,0.736,0.710,0.711,0.818,0.796,0.75
9,(5.9146)+(-0.0997)His+(0.0185)Thr+(-0.0239)Arg+(-0.0383)Val+(-0.002
6)Lys+(0.1383)Ile;0.799,0.831
,0.780,0.791,0.791,0.823,0.699,0.776,(3.8079)+(0.0286)Ser+(0.0020)Thr
+(-0.0232)Arg+(-0.0019)Val+(0.0203)Orn+(-0.1470)Trp;0.799,0.831,0.812
,0.811,0.827,0.817,0.778,0.808,(4.9647)+(0.0011)Gly+(0.0050)Gln+(-0.0
824)Cit+(-0.0045)Tyr+(0.0154)Leu+(-0.1682)Trp;0.799,0.836,0.773,0.772
,0.773,0.812,0.746,0.776,(3.5790)+(0.0318)Ser+(-0.0182)Arg+(-0.0011)T
yr+(-0.0221)Val+(0.0476)Leu+(-0.1528)Trp;0.799,0.833,0.768,0.771,0.77
1,0.803,0.730,0.769,(3.1253)+(0.0308)Ser+(-0.0027)Thr+(0.0060)Pro+(-0
.0002)Val+(-0.0055)Lys+(-0.1475)Trp;0.799,0.832,0.809,0.822,0.809,0.8
31,0.764,0.806,(7.5214)+(-0.0657)Asn+(0.0206)Thr+(-0.0057)Ala+(-0.012
3)Arg+(0.0095)Pro+(-0.1376)Trp;0.799,0.831,0.785,0.787,0.779,0.796,0.
785,0.787,(4.7031)+(0.0008)Gln+(0.0061)Thr+(-0.0271)Val+(0.0166)Orn+(
0.0476)Leu+(-0.1592)Trp;0.799,0.833,0.758,0.739,0.765,0.798,0.763,0.7
66,(5.2584)+(-0.0280)Asn+(-0.1187)His+(-0.0639)Cit+(-0.0481)Tyr+(0.04
77)Orn+(0.0933)Phe;0.799,0.832,0.771,0.738,0.753,0.835,0.850,0.794,(4
.8529)+(-0.1200)His+(-0.0094)Ala+(-0.0505)Cit+(0.0046)Pro+(0.0481)Ile
+(0.0598)Phe;0.799,0.831,0.813,0.813,0.830,0.836,0.758,0.809,(7.0994)
+(0.0163)Thr+(-0.0048)Ala+(-0.0770)Cit+(0.0026)Tyr+(0.0062)Val+(-0.15
87)Trp;0.799,0.836,0.776,0.762,0.767,0.826,0.794,0.787,(1.0720)+(-0.0
895)Cit+(-0.2934)Met+(0.0236)Orn+(0.1742)Ile+(-0.0974)Leu+(0.1065)Phe
;0.799,0.834,0.762,0.753,0.685,0.838,0.894,0.792,(2.0637)+(0.0061)Thr
+(-0.0108)Ala+(-0.0535)Val+(-0.0167)Lys+(0.1743)Ile+(0.0468)Phe;0.799

,0.831,0.816,0.831,0.815,0.835,0.769,0.812,(7.2235)+(-0.0812)Asn+(0.0167)Thr+(-0.0035)Ala+(-0.0034)Val+(0.0231)Orn+(-0.1322)Trp;0.799,0.829,0.821,0.826,0.837,0.828,0.772,0.816,(5.2279)+(0.0009)Gly+(0.0057)Gln+(-0.0820)Cit+(0.0052)Val+(-0.0034)Lys+(-0.1608)Trp;0.799,0.824,0.749,0.724,0.718,0.826,0.827,0.774,(5.6370)+(-0.0876)His+(-0.0361)Cit+(-0.0018)Pro+(-0.0309)Val+(0.1434)Ile+(-0.0142)Leu;0.799,0.824,0.759,0.762,0.699,0.829,0.828,0.779,(5.7857)+(-0.1440)Asn+(0.0194)Thr+(-0.0345)Tyr+(-0.0531)Val+(0.1769)Ile+(-0.0088)Leu;0.799,0.835,0.763,0.766,0.771,0.797,0.715,0.762,(3.2060)+(0.0271)Ser+(-0.0011)Gln+(0.0049)Pro+(-0.0033)Val+(0.0112)Orn+(-0.1519)Trp;0.799,0.833,0.767,0.728,0.759,0.845,0.828,0.790,(4.7522)+(-0.1211)His+(-0.0093)Ala+(-0.0765)Cit+(0.0395)Orn+(0.0444)Ile+(0.0529)Phe;0.799,0.831,0.732,0.710,0.740,0.826,0.705,0.745,(4.2724)+(0.0324)Ser+(-0.1336)His+(0.0022)Thr+(-0.0130)Tyr+(0.0294)Orn+(-0.0039)Lys;0.799,0.825,0.746,0.734,0.741,0.830,0.723,0.757,(2.9219)+(0.0307)Ser+(0.0061)Gln+(-0.1394)His+(-0.0370)Cit+(0.0074)Pro+(-0.0159)Tyr;0.799,0.835,0.777,0.771,0.752,0.799,0.827,0.787,(0.2446)+(0.0004)Pro+(-0.3253)Met+(-0.0028)Orn+(0.1748)Ile+(-0.0961)Leu+(0.1067)Phe;0.799,0.833,0.818,0.828,0.836,0.835,0.743,0.810,(5.7778)+(0.0048)Gln+(0.0134)Thr+(-0.0726)Cit+(-0.0089)Arg+(-0.0027)Lys+(-0.1597)Trp;0.799,0.828,0.796,0.786,0.801,0.801,0.807,0.799,(5.8142)+(-0.0105)Asn+(-0.0042)Arg+(-0.1544)Met+(0.0124)Orn+(0.0606)Ile+(-0.1421)Trp;0.799,0.825,0.773,0.771,0.721,0.836,0.842,0.792,(6.0563)+(-0.0898)Asn+(-0.0496)Cit+(-0.0250)Tyr+(-0.0437)Val+(0.1805)Ile+(-0.0230)Leu;0.799,0.825,0.770,0.777,0.706,0.837,0.834,0.789,(4.8865)+(-0.1703)Asn+(0.0037)Gln+(0.0188)Thr+(-0.0342)Tyr+(-0.0559)Val+(0.1689)Ile;0.799,0.834,0.802,0.814,0.812,0.808,0.746,0.795,(4.5120)+(0.0041)Gln+(0.0218)Thr+(-0.2187)Met+(0.0068)Orn+(0.0148)Leu+(-0.1536)Trp;0.799,0.832,0.780,0.792,0.792,0.817,0.701,0.776,(3.4401)+(0.0284)Ser+(0.0008)Gln+(

0.0012)Thr+(-0.0238)Arg+(0.0180)Orn+(-0.1509)Trp;0.799,0.831,0.792,0.800,0.783,0.834,0.758,0.794,(3.3740)+(0.0269)Ser+(0.0002)Gln+(-0.0024)Thr+(-0.0047)Ala+(0.0183)Orn+(-0.1439)Trp;0.799,0.832,0.795,0.773,0.810,0.816,0.808,0.802,(8.2571)+(-0.0857)His+(-0.0403)Cit+(0.0068)Arg+(0.0032)Lys+(0.0246)Leu+(-0.1215)Trp;0.799,0.833,0.762,0.754,0.745,0.805,0.791,0.774,(4.6498)+(-0.1282)His+(-0.0026)Ala+(-0.0392)Tyr+(-0.0054)Val+(0.0326)Orn+(0.0992)Phe;0.799,0.825,0.756,0.739,0.745,0.809,0.787,0.770,(4.8244)+(-0.0660)Asn+(0.0057)Gly+(-0.1238)His+(-0.0237)Val+(0.0355)Leu+(0.0895)Phe;0.799,0.842,0.757,0.747,0.729,0.852,0.773,0.775,(0.3047)+(0.0527)Ser+(-0.0060)Gly+(-0.0224)Arg+(-0.2639)Met+(0.1817)Ile+(-0.0819)Leu;0.799,0.833,0.842,0.850,0.819,0.851,0.861,0.845,(5.5360)+(-0.0888)Asn+(0.0066)Gln+(-0.0032)Ala+(-0.0254)Val+(0.0532)Leu+(-0.1346)Trp;0.799,0.831,0.766,0.744,0.757,0.814,0.807,0.780,(5.2203)+(-0.0586)Asn+(-0.1387)His+(0.0216)Thr+(-0.0050)Ala+(0.0019)Leu+(0.0827)Phe;0.799,0.828,0.768,0.732,0.754,0.840,0.839,0.791,(6.0053)+(-0.0102)Asn+(-0.1224)His+(-0.0066)Ala+(0.0252)Orn+(-0.0037)Lys+(0.0536)Ile;0.799,0.827,0.761,0.734,0.740,0.840,0.820,0.784,(5.6743)+(-0.0198)Asn+(0.0047)Gly+(-0.1216)His+(-0.0063)Ala+(-0.0006)Lys+(0.0612)Ile;0.799,0.826,0.795,0.783,0.782,0.842,0.823,0.808,(3.7461)+(0.0110)Gln+(-0.1403)His+(-0.0039)Ala+(0.0084)Pro+(-0.1464)Met+(0.0198)Leu;0.799,0.836,0.741,0.710,0.755,0.828,0.730,0.756,(3.4574)+(0.0480)Ser+(-0.1318)His+(-0.0055)Arg+(-0.1533)Met+(0.0001)Lys+(0.0299)Leu;0.799,0.833,0.788,0.786,0.785,0.841,0.763,0.794,(4.1839)+(0.0094)Gln+(-0.1457)His+(0.0220)Thr+(0.0053)Val+(-0.1865)Met+(0.0017)Lys;0.799,0.832,0.837,0.854,0.827,0.841,0.806,0.832,(5.2486)+(-0.0580)Asn+(0.0066)Gln+(-0.0021)Ala+(-0.0899)Met+(0.0231)Orn+(-0.1305)Trp;0.799,0.829,0.767,0.750,0.764,0.812,0.788,0.778,(5.5469)+(-0.0501)Asn+(-0.1376)His+(0.0253)Thr+(-0.0048)Ala+(-0.0147)Arg+(0.0874)Phe;0.799,0.829,0.732,0.725,0.638

,0.839,0.873,0.769,(-0.9404)+(0.0214)Ser+(-0.0133)Ala+(0.0033)Pro+(-0.0544)Val+(0.1648)Ile+(0.0365)Phe;0.799,0.833,0.781,0.792,0.792,0.824,0.702,0.777,(3.7508)+(0.0301)Ser+(-0.0213)Arg+(-0.0012)Val+(0.0213)Orn+(-0.0020)Lys+(-0.1447)Trp;0.799,0.833,0.790,0.797,0.785,0.833,0.753,0.792,(3.5466)+(0.0287)Ser+(-0.0047)Ala+(0.0024)Val+(0.0191)Orn+(-0.0062)Lys+(-0.1419)Trp;0.799,0.831,0.784,0.796,0.794,0.822,0.704,0.779,(3.5329)+(0.0284)Ser+(0.0009)Gln+(-0.0232)Arg+(-0.0018)Val+(0.0201)Orn+(-0.1472)Trp;0.799,0.830,0.808,0.803,0.827,0.803,0.784,0.804,(7.0889)+(-0.0639)Cit+(0.0092)Pro+(-0.1143)Met+(0.0050)Lys+(0.0130)Leu+(-0.1494)Trp;0.799,0.835,0.772,0.786,0.775,0.810,0.702,0.768,(3.4978)+(0.0306)Ser+(0.0011)Gln+(-0.0215)Arg+(0.0077)Pro+(-0.0109)Tyr+(-0.1475)Trp;0.799,0.831,0.752,0.766,0.755,0.777,0.689,0.747,(-3.2083)+(0.0492)Ser+(-0.1074)Asn+(0.0018)Gln+(0.0140)Thr+(-0.3546)Met+(0.1103)Phe;0.799,0.831,0.785,0.787,0.779,0.789,0.789,0.786,(4.7226)+(0.0013)Gln+(0.0073)Thr+(0.0036)Pro+(-0.0254)Val+(0.0458)Leu+(-0.1614)Trp;0.799,0.824,0.801,0.789,0.783,0.847,0.838,0.814,(4.2503)+(-0.0559)Asn+(0.0109)Gln+(-0.1430)His+(-0.0049)Ala+(0.0060)Pro+(0.0138)Leu;0.799,0.834,0.760,0.747,0.686,0.839,0.891,0.791,(2.0827)+(-0.0106)Ala+(-0.0535)Val+(0.0182)Orn+(-0.0162)Lys+(0.1711)Ile+(0.0423)Phe;0.799,0.832,0.786,0.765,0.789,0.824,0.810,0.797,(4.5607)+(-0.1222)His+(-0.0026)Ala+(-0.0014)Arg+(-0.1620)Met+(0.0264)Orn+(0.1053)Phe;0.799,0.832,0.797,0.784,0.804,0.807,0.810,0.801,(5.2993)+(-0.0109)Asn+(0.0025)Gly+(0.0171)Tyr+(-0.1899)Met+(0.0654)Ile+(-0.1455)Trp;0.799,0.828,0.791,0.777,0.760,0.875,0.833,0.811,(4.8869)+(-0.0624)Asn+(-0.0115)Ala+(-0.1113)Cit+(0.0455)Orn+(0.1643)Ile+(-0.0810)Leu;0.799,0.826,0.761,0.747,0.739,0.824,0.802,0.778,(6.1856)+(-0.0904)His+(-0.0407)Cit+(-0.0011)Pro+(-0.0262)Tyr+(0.1259)Ile+(-0.0502)Leu;0.799,0.831,0.746,0.764,0.750,0.789,0.661,0.741,(-2.9384)+(0.0388)Ser+(-0.0005)Gln+(0.0175)Thr+(-0.0145)Val+(

-0.4103)Met+(0.1364)Phe;0.799,0.831,0.800,0.782,0.801,0.825,0.826,0.809,(8.5663)+(-0.0825)His+(-0.0009)Ala+(-0.0171)Val+(-0.0417)Met+(0.0537)Leu+(-0.1038)Trp;0.799,0.831,0.816,0.832,0.801,0.830,0.795,0.815,(4.8628)+(0.0049)Gln+(-0.0049)Ala+(0.0111)Pro+(-0.1469)Met+(0.0183)Orn+(-0.1317)Trp;0.799,0.829,0.743,0.728,0.748,0.831,0.709,0.754,(4.7311)+(0.0442)Ser+(-0.0535)Asn+(-0.1152)His+(-0.0122)Arg+(0.0096)Pro+(-0.0111)Tyr;0.799,0.828,0.806,0.803,0.818,0.823,0.778,0.805,(6.8404)+(0.0035)Gly+(-0.0044)Ala+(-0.0758)Cit+(-0.0012)Lys+(0.0236)Leu+(-0.1534)Trp;0.799,0.823,0.752,0.735,0.715,0.821,0.820,0.773,(6.2626)+(-0.0823)His+(-0.0280)Cit+(-0.0072)Arg+(-0.0189)Tyr+(-0.0356)Val+(0.1379)Ile;0.799,0.822,0.751,0.739,0.713,0.816,0.817,0.771,(6.2074)+(-0.0825)His+(-0.0129)Arg+(-0.0186)Tyr+(-0.0326)Val+(0.1483)Ile+(-0.0137)Leu;0.799,0.833,0.778,0.788,0.789,0.821,0.697,0.774,(3.7460)+(0.0295)Ser+(0.0025)Thr+(-0.0218)Arg+(0.0197)Orn+(-0.0030)Lys+(-0.1473)Trp;0.799,0.833,0.782,0.794,0.792,0.820,0.705,0.778,(3.4454)+(0.0294)Ser+(0.0010)Gln+(-0.0218)Arg+(0.0196)Orn+(-0.0027)Lys+(-0.1474)Trp;0.799,0.832,0.797,0.798,0.807,0.830,0.754,0.797,(8.1459)+(0.0038)Gly+(-0.0804)His+(-0.0328)Cit+(-0.0025)Arg+(0.0113)Lys+(-0.1065)Trp;0.799,0.832,0.815,0.813,0.822,0.821,0.804,0.815,(5.2086)+(0.0049)Gln+(-0.0744)Cit+(-0.0036)Tyr+(-0.0143)Val+(0.0377)Leu+(-0.1643)Trp;0.799,0.831,0.769,0.754,0.717,0.830,0.870,0.793,(3.8501)+(-0.1562)Asn+(-0.0616)Val+(0.0267)Orn+(-0.0031)Lys+(0.1622)Ile+(0.0564)Phe;0.799,0.831,0.813,0.824,0.821,0.818,0.764,0.807,(7.2913)+(-0.0876)Asn+(-0.0015)Gly+(0.0165)Thr+(-0.0056)Val+(0.0225)Orn+(-0.1339)Trp;0.799,0.830,0.804,0.794,0.792,0.849,0.824,0.815,(3.9198)+(0.0120)Gln+(-0.1360)His+(-0.0088)Arg+(-0.0190)Val+(-0.1432)Met+(0.0501)Leu;0.799,0.825,0.819,0.825,0.833,0.837,0.761,0.814,(7.8099)+(-0.0337)Asn+(0.0038)Gly+(-0.0027)Ala+(-0.0705)Cit+(0.0067)Val+(-0.1394)Trp;0.799,0.832,0.774,0.785,0.761,0.815,0.744,0.776

,(-2.0740)+(0.0530)Ser+(-0.0890)Asn+(-0.0033)Ala+(-0.2647)Met+(-0.0054)Lys+(0.1134)Phe;0.799,0.837,0.788,0.769,0.784,0.806,0.834,0.798,(4.3861)+(-0.1161)His+(-0.0265)Val+(-0.2292)Met+(0.0097)Lys+(0.0424)Leu+(0.1184)Phe;0.799,0.834,0.788,0.763,0.785,0.813,0.839,0.800,(4.6227)+(-0.1118)His+(0.0047)Arg+(-0.0251)Val+(-0.2099)Met+(0.0445)Leu+(0.1154)Phe;0.799,0.827,0.748,0.727,0.735,0.788,0.802,0.763,(4.8280)+(-0.1287)His+(-0.0373)Cit+(0.0008)Pro+(-0.0506)Tyr+(0.0406)Ile+(0.0829)Phe;0.799,0.829,0.745,0.726,0.727,0.784,0.806,0.761,(4.7297)+(-0.1347)His+(0.0004)Pro+(-0.0477)Tyr+(-0.0028)Lys+(0.0400)Ile+(0.0794)Phe;0.799,0.826,0.763,0.754,0.756,0.849,0.739,0.774,(3.2314)+(0.0297)Ser+(0.0069)Gln+(-0.1385)His+(-0.0357)Cit+(-0.0024)Tyr+(-0.0034)Lys;0.799,0.825,0.740,0.716,0.750,0.832,0.716,0.754,(4.4295)+(0.0442)Ser+(-0.0633)Asn+(-0.1180)His+(-0.0323)Cit+(0.0074)Pro+(0.0023)Val;0.799,0.825,0.744,0.746,0.684,0.796,0.824,0.762,(1.8638)+(-0.0704)Cit+(-0.0009)Pro+(-0.0678)Tyr+(-0.0506)Val+(0.1513)Ile+(0.0751)Phe;0.799,0.823,0.753,0.734,0.751,0.842,0.742,0.767,(4.

4976)+(0.0422)Ser+(-0.0523)Asn+(-0.1247)His+(-0.0026)Ala+(0.0062)Val+(0.0008)Lys;0.799,0.831,0.801,0.804,0.800,0.826,0.780,0.803,(4.2819)+(0.0414)Ser+(-0.0074)Gly+(-0.0029)Ala+(-0.0152)Arg+(0.0032)Val+(-0.1441)Trp;0.799,0.828,0.758,0.747,0.761,0.855,0.713,0.769,(5.4472)+(0.0385)Ser+(-0.0679)Asn+(-0.1104)His+(0.0131)Thr+(-0.0022)Ala+(-0.0362)Cit;0.799,0.825,0.769,0.762,0.757,0.854,0.752,0.781,(3.2432)+(0.0292)Ser+(0.0067)Gln+(-0.1364)His+(-0.0024)Ala+(-0.0370)Cit+(0.0002)Tyr;0.799,0.833,0.757,0.776,0.753,0.800,0.687,0.754,(-2.8931)+(0.0376)Ser+(0.0176)Thr+(-0.0020)Ala+(-0.0135)Val+(-0.3974)Met+(0.1352)Phe;0.799,0.832,0.730,0.703,0.738,0.784,0.747,0.743,(4.1040)+(-0.0723)Asn+(0.0049)Gly+(-0.1487)His+(0.0163)Thr+(0.0145)Orn+(0.0796)Phe;0.799,0.831,0.807,0.809,0.825,0.824,0.751,0.802,(7.6472)+(-0.0506)Asn+(0.0042)Gly+(-0

.0735)Cit+(0.0090)Pro+(0.0058)Tyr+(-0.1418)Trp;0.799,0.830,0.805,0.80
0,0.811,0.838,0.782,0.808,(8.3832)+(-0.0159)Asn+(0.0037)Gly+(-0.0839)
His+(-0.0012)Arg+(0.0224)Tyr+(-0.1011)Trp;0.799,0.824,0.735,0.707,0.7
33,0.806,0.761,0.752,(6.2539)+(-0.1229)His+(0.0203)Thr+(-0.0407)Cit+(
-0.0339)Tyr+(-0.0067)Lys+(0.0580)Ile;0.799,0.824,0.734,0.726,0.680,0.
823,0.806,0.759,(1.0828)+(0.0394)Ser+(-0.0079)Gly+(-0.0388)Arg+(-0.04
46)Val+(0.1977)Ile+(-0.0415)Leu;0.799,0.836,0.778,0.775,0.778,0.789,0
.778,0.780,(3.3752)+(0.0386)Ser+(-0.0087)Gly+(-0.0225)Tyr+(0.0135)Orn
+(0.0095)Leu+(-0.1540)Trp;0.799,0.833,0.775,0.790,0.766,0.810,0.728,0
.773,(-2.1196)+(0.0537)Ser+(-0.0858)Asn+(-0.0034)Ala+(-0.0121)Arg+(-0
.2677)Met+(0.1134)Phe;0.799,0.830,0.766,0.761,0.688,0.836,0.892,0.794
,(1.8965)+(-0.0106)Ala+(-0.0426)Val+(-0.0121)Lys+(0.1941)Ile+(-0.0339
)Leu+(0.0521)Phe;0.799,0.830,0.795,0.804,0.732,0.874,0.843,0.814,(2.8
043)+(0.0040)Gln+(-0.0112)Ala+(-0.0920)Cit+(-0.0325)Tyr+(0.1855)Ile+(
-0.0838)Leu;0.799,0.827,0.801,0.799,0.785,0.854,0.805,0.810,(4.8387)+
(-0.0723)Asn+(0.0102)Gln+(-0.1409)His+(0.0138)Thr+(-0.0028)Ala+(0.002
4)Val;0.799,0.834,0.703,0.680,0.714,0.772,0.691,0.714,(-4.9222)+(0.05
20)Ser+(-0.0016)Gln+(0.0104)Thr+(-0.4769)Met+(0.0547)Ile+(0.0901)Phe;
0.799,0.829,0.732,0.702,0.724,0.806,0.775,0.752,(3.7861)+(0.0033)Gly+
(-0.1435)His+(-0.0216)Val+(0.0263)Orn+(0.0301)Leu+(0.0713)Phe;0.799,0
.829,0.769,0.759,0.763,0.830,0.766,0.780,(4.7324)+(-0.0462)Asn+(0.007
8)Gly+(-0.1223)His+(-0.0047)Ala+(-0.0486)Cit+(0.1036)Phe;0.799,0.829,
0.806,0.801,0.817,0.822,0.785,0.806,(6.5660)+(0.0033)Gly+(-0.0048)Ala
+(-0.0802)Cit+(0.0062)Arg+(0.0232)Leu+(-0.1564)Trp;0.799,0.836,0.811,
0.825,0.807,0.789,0.799,0.805,(4.1988)+(-0.0050)Ala+(-0.0162)Arg+(-0.
0215)Tyr+(0.0184)Orn+(0.0894)Phe+(-0.1494)Trp;0.799,0.831,0.828,0.824
,0.833,0.836,0.823,0.829,(5.1167)+(0.0056)Gln+(-0.0053)Ala+(-0.0802)C
it+(0.0060)Tyr+(0.0206)Leu+(-0.1646)Trp;0.799,0.829,0.791,0.784,0.793

,0.798,0.804,0.795,(5.4952)+(-0.0143)Asn+(0.0021)Gly+(-0.1642)Met+(0.0024)Lys+(0.0645)Ile+(-0.1436)Trp;0.799,0.826,0.758,0.738,0.763,0.846,0.738,0.771,(4.7211)+(0.0435)Ser+(-0.0474)Asn+(-0.1180)His+(-0.0032)Ala+(-0.0357)Cit+(0.0080)Val;0.799,0.826,0.718,0.679,0.734,0.819,0.713,0.736,(3.4420)+(0.0438)Ser+(-0.1434)His+(-0.0127)Arg+(0.0046)Pro+(-0.0059)Lys+(0.0199)Leu;0.799,0.830,0.806,0.801,0.810,0.842,0.785,0.809,(8.2832)+(0.0034)Gly+(-0.0856)His+(-0.0013)Ala+(-0.0024)Arg+(0.0242)Tyr+(-0.1014)Trp;0.799,0.830,0.792,0.783,0.778,0.850,0.802,0.803,(4.2158)+(0.0094)Gln+(-0.1317)His+(-0.0037)Ala+(0.0096)Pro+(-0.1235)Met+(0.0234)Orn;0.799,0.830,0.805,0.800,0.808,0.826,0.799,0.808,(6.7643)+(0.0033)Gly+(-0.0042)Ala+(-0.0689)Cit+(-0.0155)Val+(0.0477)Leu+(-0.1512)Trp;0.799,0.828,0.729,0.693,0.724,0.803,0.784,0.751,(3.7650)+(0.0053)Gly+(-0.1473)His+(-0.0026)Pro+(-0.0074)Lys+(0.0413)Ile+(0.0624)Phe;0.799,0.826,0.756,0.740,0.752,0.835,0.745,0.768,(5.2837)+(0.0438)Ser+(-0.0651)Asn+(-0.0049)Gly+(-0.1167)His+(0.0115)Thr+(-0.0112)Tyr;0.799,0.826,0.744,0.732,0.734,0.843,0.727,0.759,(4.3955)+(0.0405)Ser+(-0.1199)His+(-0.0049)Ala+(-0.0151)Arg+(0.0127)Pro+(-0.0075)Tyr;0.799,0.825,0.747,0.729,0.707,0.816,0.830,0.770,(5.7677)+(-0.0930)His+(-0.0002)Pro+(-0.0205)Tyr+(-0.0340)Val+(-0.0002)Lys+(0.1313)Ile;0.799,0.837,0.789,0.782,0.793,0.805,0.784,0.791,(6.0787)+(-0.0638)Asn+(0.0185)Thr+(-0.0155)Arg+(-0.0029)Lys+(0.0506)Ile+(-0.1595)Trp;0.799,0.827,0.798,0.791,0.785,0.850,0.809,0.809,(4.6149)+(-0.0592)Asn+(0.0006)Gly+(0.0099)Gln+(-0.1360)His+(-0.0027)Ala+(0.0255)Orn;0.799,0.826,0.720,0.681,0.746,0.829,0.693,0.737,(3.6402)+(0.0348)Ser+(-0.1351)His+(-0.0626)Cit+(0.0040)Pro+(0.0003)Val+(0.0393)Orn;0.799,0.836,0.790,0.785,0.780,0.812,0.812,0.797,(3.4255)+(0.0391)Ser+(-0.0073)Gly+(-0.0044)Ala+(-0.0076)Tyr+(0.0162)Leu+(-0.1526)Trp;0.799,0.834,0.757,0.752,0.765,0.794,0.730,0.760,(2.8033)+(0.0324)Ser+(-0.0003)Gln+(0.0038)Pro+(-0.0100)Ly

s+(0.0138)Leu+(-0.1563)Trp;0.799,0.831,0.791,0.800,0.782,0.835,0.754,0.793,(3.4941)+(0.0269)Ser+(-0.0019)Thr+(-0.0045)Ala+(-0.0033)Tyr+(0.0188)Orn+(-0.1428)Trp;0.799,0.829,0.834,0.850,0.815,0.842,0.825,0.833,(5.6168)+(-0.0782)Asn+(0.0062)Gln+(-0.0052)Ala+(0.0100)Pro+(-0.0018)Val+(-0.1318)Trp;0.799,0.832,0.788,0.788,0.783,0.791,0.799,0.790,(5.2811)+(-0.0013)Gly+(0.0039)Pro+(-0.0274)Val+(0.0205)Orn+(0.0464)Leu+(-0.1521)Trp;0.798,0.828,0.726,0.693,0.736,0.805,0.736,0.743,(5.7807)+(-0.1287)His+(0.0149)Thr+(-0.0622)Cit+(-0.0438)Tyr+(0.0403)Orn+(0.0471)Ile;0.798,0.832,0.833,0.849,0.829,0.832,0.799,0.827,(5.0289)+(-0.0623)Asn+(0.0065)Gln+(-0.1127)Met+(0.0189)Orn+(0.0048)Lys+(-0.1367)Trp;0.798,0.826,0.755,0.740,0.731,0.808,0.807,0.772,(5.7868)+(-0.1050)His+(-0.0012)Pro+(-0.0290)Tyr+(0.0031)Lys+(0.1181)Ile+(-0.0475)Leu;0.798,0.822,0.726,0.731,0.673,0.822,0.756,0.746,(1.5551)+(0.0279)Ser+(-0.0354)Arg+(-0.0314)Tyr+(-0.0384)Val+(0.1954)Ile+(-0.0441)Leu;0.798,0.833,0.777,0.767,0.720,0.831,0.883,0.800,(3.8263)+(-0.1467)Asn+(-0.0023)Pro+(-0.0604)Val+(-0.0010)Lys+(0.1663)Ile+(0.0646)Phe;0.798,0.828,0.775,0.749,0.785,0.804,0.800,0.785,(4.0094)+(0.0159)Asn+(-0.1318)His+(-0.2040)Met+(0.0224)Orn+(0.0040)Lys+(0.1073)Phe;0.798,0.827,0.795,0.785,0.779,0.847,0.816,0.807,(4.5832)+(-0.0594)Asn+(0.0097)Gln+(-0.1347)His+(-0.0048)Ala+(0.0071)Pro+(0.0227)Orn;0.798,0.833,0.807,0.818,0.829,0.825,0.720,0.798,(6.9723)+(0.0285)Thr+(-0.0139)Arg+(0.0193)Tyr+(-0.0000)Val+(-0.1885)Met+(-0.1450)Trp;0.798,0.828,0.725,0.696,0.744,0.828,0.689,0.739,(3.8829)+(0.0373)Ser+(-0.1375)His+(0.0013)Thr+(-0.0201)Arg+(0.0056)Pro+(0.0246)Orn;0.798,0.824,0.779,0.768,0.767,0.838,0.789,0.790,(4.4778)+(0.0076)Gln+(-0.1465)His+(0.0073)Thr+(-0.0033)Ala+(0.0238)Orn+(-0.0039)Lys;0.798,0.833,0.765,0.774,0.765,0.800,0.718,0.764,(3.4114)+(0.0292)Ser+(0.0001)Gln+(0.0067)Pro+(-0.0132)Tyr+(-0.0052)Lys+(-0.1449)Trp;0.798,0.831,0.810,0.823,0.817,0.818,0.756,0.803,(7.05

10)+(-0.0927)Asn+(0.0150)Thr+(-0.0060)Val+(0.0217)Orn+(0.0024)Lys+(-0.1340)Trp;0.798,0.830,0.736,0.703,0.727,0.815,0.788,0.758,(4.8336)+(0.0026)Gly+(-0.1209)His+(0.0209)Orn+(-0.0031)Lys+(0.1018)Ile+(-0.0423)Leu;0.798,0.824,0.738,0.715,0.734,0.823,0.745,0.754,(4.2463)+(0.0445)Ser+(-0.0056)Gly+(-0.1259)His+(0.0086)Pro+(-0.0196)Tyr+(-0.0017)Lys;0.798,0.822,0.754,0.731,0.757,0.833,0.756,0.769,(4.5606)+(0.0473)Ser+(-0.0532)Asn+(-0.0039)Gly+(-0.1238)His+(0.0040)Val+(-0.0005)Lys;0.798,0.840,0.809,0.823,0.798,0.790,0.810,0.805,(3.8330)+(-0.0051)Ala+(-0.0248)Tyr+(0.0143)Orn+(-0.0030)Lys+(0.0887)Phe+(-0.1496)Trp;0.798,0.839,0.789,0.806,0.791,0.747,0.773,0.779,(3.9368)+(-0.0156)Arg+(0.0057)Pro+(-0.0344)Tyr+(0.0006)Lys+(0.0913)Phe+(-0.1596)Trp;0.798,0.837,0.754,0.733,0.723,0.838,0.816,0.778,(-0.8172)+(0.0540)Ser+(-0.0054)Gly+(-0.0071)Ala+(-0.2668)Met+(-0.0119)Lys+(0.0846)Ile;0.798,0.833,0.810,0.806,0.790,0.828,0.845,0.817,(7.1982)+(-0.0565)Asn+(-0.0057)Ala+(0.0111)Pro+(-0.0273)Val+(0.0550)Leu+(-0.1289)Trp;0.798,0.823,0.759,0.762,0.698,0.827,0.829,0.779,(5.8292)+(-0.1487)Asn+(0.0203)Thr+(-0.0003)Pro+(-0.0339)Tyr+(-0.0561)Val+(0.1716)Ile;0.798,0.834,0.833,0.851,0.824,0.846,0.797,0.830,(5.9263)+(-0.1025)Asn+(0.0058)Gln+(0.0174)Thr+(-0.0034)Ala+(-0.0012)Val+(-0.1403)Trp;0.798,0.833,0.801,0.804,0.799,0.862,0.754,0.805,(4.8287)+(0.0096)Gln+(-0.1278)His+(0.0232)Thr+(-0.0006)Ala+(-0.0367)Cit+(-0.1623)Met;0.798,0.831,0.796,0.798,0.794,0.812,0.784,0.797,(3.8027)+(0.0386)Ser+(-0.0088)Gly+(0.0010)Gln+(0.0028)Thr+(-0.0068)Lys+(-0.1477)Trp;0.798,0.828,0.809,0.820,0.802,0.828,0.784,0.808,(7.1348)+(-0.0797)Asn+(0.0167)Thr+(-0.0060)Ala+(0.0092)Pro+(0.0029)Lys+(-0.1389)Trp;0.798,0.826,0.803,0.788,0.795,0.850,0.824,0.814,(3.8872)+(0.0119)Gln+(-0.1315)His+(-0.0312)Cit+(-0.0179)Val+(-0.1536)Met+(0.0502)Leu;0.798,0.825,0.783,0.766,0.779,0.836,0.798,0.795,(3.9298)+(-0.0653)Asn+(0.0013)Gly+(0.0102)Gln+(-0.1504)His+(0.0176)Orn+(0.0107)

Leu;0.798,0.834,0.783,0.781,0.774,0.827,0.775,0.789,(2.9755)+(0.0317)Ser+(0.0008)Gln+(-0.0052)Ala+(-0.0083)Lys+(0.0213)Leu+(-0.1507)Trp;0.798,0.833,0.772,0.780,0.778,0.812,0.706,0.769,(3.6742)+(0.0321)Ser+(-0.0211)Arg+(0.0075)Pro+(-0.0013)Val+(-0.0007)Lys+(-0.1478)Trp;0.798,0.824,0.790,0.776,0.782,0.840,0.811,0.802,(3.9743)+(-0.0615)Asn+(0.0015)Gly+(0.0111)Gln+(-0.1501)His+(-0.0011)Lys+(0.0143)Leu;0.798,0.835,0.776,0.779,0.773,0.748,0.791,0.773,(3.7538)+(-0.0166)Arg+(-0.0335)Tyr+(0.0046)Orn+(0.0432)Ile+(0.0694)Phe+(-0.1686)Trp;0.798,0.835,0.777,0.770,0.754,0.801,0.827,0.788,(0.3313)+(0.0002)Pro+(-0.3214)Met+(-0.0016)Lys+(0.1737)Ile+(-0.0952)Leu+(0.1056)Phe;0.798,0.831,0.744,0.711,0.756,0.789,0.774,0.758,(4.9637)+(-0.0540)Asn+(-0.1444)His+(0.0201)Thr+(0.0185)Orn+(-0.0074)Lys+(0.0758)Phe;0.798,0.824,0.722,0.691,0.730,0.824,0.714,0.740,(3.6901)+(0.0385)Ser+(-0.1401)His+(0.0008)Thr+(0.0056)Pro+(0.0042)Val+(-0.0052)Lys;0.798,0.834,0.797,0.789,0.806,0.802,0.797,0.798,(6.8470)+(-0.0684)Cit+(0.0078)Pro+(-0.0052)Tyr+(-0.0178)Val+(0.0407)Leu+(-0.1555)Trp;0.798,0.829,0.736,0.719,0.752,0.827,0.681,0.745,(4.6855)+(0.0332)Ser+(-0.1321)His+(0.0068)Thr+(-0.0201)Arg+(-0.0166)Tyr+(0.0316)Orn;0.798,0.825,0.774,0.772,0.720,0.835,0.850,0.794,(6.1337)+(-0.1033)Asn+(-0.0468)Cit+(-0.0241)Tyr+(-0.0519)Val+(0.0021)Lys+(0.1652)Ile;0.798,0.823,0.772,0.767,0.718,0.835,0.848,0.792,(6.1697)+(-0.0995)Asn+(-0.0474)Cit+(0.0014)Pro+(-0.0240)Tyr+(-0.0515)Val+(0.1640)Ile;0.798,0.822,0.749,0.736,0.711,0.814,0.818,0.770,(6.1594)+(-0.0888)His+(-0.0146)Arg+(-0.0202)Tyr+(-0.0367)Val+(0.0041)Lys+(0.1366)Ile;0.798,0.835,0.804,0.816,0.814,0.810,0.749,0.797,(4.5753)+(0.0044)Gln+(0.0235)Thr+(-0.2182)Met
+(-0.0015)Lys+(0.0167)Leu+(-0.1535)Trp;0.798,0.827,0.800,0.792,0.787,0.851,0.813,0.811,(4.6105)+(-0.0578)Asn+(0.0100)Gln+(-0.1370)His+(-0.0029)Ala+(0.0006)Val+(0.0250)Orn;0.798,0.821,0.713,0.682,0.709,0.813,

0.729,0.733,(3.6071)+(0.0354)Ser+(-0.1451)His+(0.0069)Thr+(-0.0144)Tyr+(-0.0173)Val+(0.0464)Leu;0.798,0.830,0.811,0.811,0.815,0.820,0.794,0.810,(8.6396)+(-0.0105)Asn+(-0.0804)His+(-0.0043)Arg+(-0.0493)Met+(0.0157)Lys+(-0.1024)Trp;0.798,0.823,0.788,0.781,0.778,0.835,0.792,0.797,(4.5679)+(-0.0795)Asn+(0.0004)Gly+(0.0101)Gln+(-0.1427)His+(0.0121)Thr+(0.0035)Pro;0.798,0.834,0.800,0.800,0.793,0.824,0.798,0.804,(3.9757)+(0.0407)Ser+(-0.0077)Gly+(-0.0034)Ala+(0.0043)Val+(-0.0053)Lys+(-0.1440)Trp;0.798,0.826,0.745,0.727,0.730,0.781,0.799,0.759,(4.8605)+(-0.1345)His+(-0.0067)Arg+(0.0009)Pro+(-0.0492)Tyr+(0.0381)Ile+(0.0806)Phe;0.798,0.832,0.750,0.744,0.740,0.795,0.751,0.758,(4.8681)+(-0.1369)His+(0.0245)Thr+(-0.0036)Ala+(-0.0426)Cit+(-0.0506)Tyr+(0.1113)Phe;0.798,0.830,0.735,0.690,0.744,0.784,0.798,0.754,(4.4923)+(-0.0573)Asn+(-0.1485)His+(0.0169)Thr+(0.0111)Orn+(0.0256)Ile+(0.0550)Phe;0.798,0.826,0.755,0.735,0.733,0.823,0.803,0.773,(4.2290)+(0.0044)Gly+(-0.1369)His+(-0.0042)Ala+(-0.0168)Val+(0.0300)Leu+(0.0825)Phe;0.798,0.832,0.796,0.780,0.793,0.844,0.809,0.807,(3.7954)+(-0.0238)Asn+(0.0110)Gln+(-0.1455)His+(-0.1234)Met+(0.0184)Orn+(0.0170)Leu;0.798,0.829,0.727,0.704,0.743,0.822,0.686,0.739,(4.1997)+(0.0373)Ser+(-0.1300)His+(-0.0191)Arg+(0.0077)Pro+(-0.0217)Tyr+(0.0293)Orn;0.798,0.834,0.784,0.785,0.781,0.826,0.756,0.787,(3.4478)+(0.0340)Ser+(-0.0046)Ala+(-0.0136)Arg+(-0.0041)Lys+(0.0199)Leu+(-0.1492)Trp;0.798,0.833,0.805,0.808,0.779,0.820,0.840,0.812,(4.8905)+(0.0029)Gln+(-0.0075)Ala+(0.0100)Pro+(-0.0239)Val+(0.0493)Leu+(-0.1497)Trp;0.798,0.830,0.790,0.786,0.815,0.804,0.736,0.785,(6.4823)+(0.0007)Gly+(0.0144)Thr+(-0.0790)Cit+(-0.0093)Tyr+(0.0161)Leu+(-0.1696)Trp;0.798,0.838,0.791,0.783,0.792,0.804,0.804,0.796,(5.8738)+(-0.0717)Asn+(0.0158)Thr+(-0.0022)Pro+(-0.0054)Lys+(0.0529)Ile+(-0.1579)Trp;0.798,0.832,0.816,0.814,0.824,0.822,0.804,0.816,(5.2111)+(0.0052)Gln+(-0.0722)Cit+(-0.0044)Arg+(-0.0146)Val+(0.0378)

Leu+(-0.1644)Trp;0.798,0.828,0.784,0.773,0.779,0.836,0.785,0.793,(4.5641)+(-0.0782)Asn+(0.0002)Gly+(0.0095)Gln+(-0.1439)His+(0.0108)Thr+(0.0190)Orn;0.798,0.832,0.775,0.782,0.745,0.794,0.804,0.781,(1.2320)+(-0.0156)Arg+(-0.0335)Tyr+(-0.2469)Met+(0.1796)Ile+(-0.0996)Leu+(0.1171)Phe;0.798,0.826,0.803,0.803,0.785,0.855,0.804,0.812,(5.0138)+(-0.0752)Asn+(-0.0002)Gly+(0.0101)Gln+(-0.1368)His+(0.0143)Thr+(-0.0024)Ala;0.798,0.823,0.793,0.788,0.782,0.841,0.793,0.801,(4.6947)+(-0.0777)Asn+(0.0001)Gly+(0.0102)Gln+(-0.1429)His+(0.0131)Thr+(0.0007)Val;0.798,0.831,0.782,0.786,0.774,0.793,0.783,0.784,(5.3814)+(0.0050)Pro+(-0.0176)Tyr+(-0.0266)Val+(0.0221)Orn+(0.0465)Leu+(-0.1464)Trp;0.798,0.831,0.790,0.769,0.785,0.818,0.838,0.802,(4.8356)+(-0.1100)His+(-0.0011)Ala+(-0.0244)Val+(-0.1941)Met+(0.0437)Leu+(0.1153)Phe;0.798,0.839,0.781,0.781,0.776,0.757,0.805,0.780,(3.8888)+(-0.0125)Arg+(-0.0312)Tyr+(-0.0053)Lys+(0.0474)Ile+(0.0731)Phe+(-0.1662)Trp;0.798,0.837,0.815,0.828,0.808,0.787,0.814,0.809,(4.1810)+(-0.0049)Ala+(-0.0122)Arg+(-0.0190)Tyr+(0.0041)Leu+(0.0949)Phe+(-0.1549)Trp;0.798,0.835,0.759,0.746,0.776,0.856,0.685,0.766,(4.7968)+(0.0371)Ser+(-0.1142)His+(0.0195)Thr+(-0.0338)Cit+(0.0168)Tyr+(-0.1849)Met;0.798,0.823,0.750,0.726,0.744,0.835,0.763,0.767,(4.1948)+(0.0439)Ser+(-0.0045)Gly+(-0.1334)His+(-0.0028)Ala+(-0.0094)Tyr+(0.0074)Val;0.798,0.821,0.737,0.732,0.647,0.848,0.855,0.771,(0.3173)+(0.0211)Ser+(-0.0122)Ala+(0.0038)Pro+(-0.0415)Val+(0.1906)Ile+(-0.0329)Leu;0.798,0.840,0.804,0.810,0.821,0.767,0.777,0.794,(3.8755)+(0.0004)Gly+(-0.0190)Arg+(0.0136)Orn+(-0.0020)Lys+(0.0735)Phe+(-0.1661)Trp;0.798,0.832,0.791,0.796,0.786,0.828,0.760,0.793,(3.1187)+(0.0307)Ser+(0.0015)Gln+(-0.0048)Ala+(-0.0177)Arg+(0.0172)Leu+(-0.1531)Trp;0.798,0.829,0.808,0.801,0.812,0.826,0.805,0.811,(8.6526)+(-0.0849)His+(-0.0012)Ala+(0.0036)Arg+(0.0090)Val+(-0.0214)Met+(-0.1036)Trp;0.798,0.827,0.741,0.719,0.750,0.832,0.711,0.753,(4.4530)+(0.04

47)Ser+(-0.0542)Asn+(-0.1218)His+(-0.0128)Arg+(0.0080)Pro+(0.0015)Val;0.798,0.827,0.738,0.717,0.727,0.796,0.775,0.754,(6.3682)+(-0.0385)Asn+(-0.1298)His+(0.0208)Thr+(-0.0007)Pro+(-0.0357)Tyr+(0.0528)Ile;0.798,0.842,0.824,0.831,0.837,0.779,0.811,0.814,(3.8105)+(-0.0070)Arg+(0.0047)Tyr+(-0.2149)Met+(0.0071)Lys+(0.1074)Phe+(-0.1485)Trp;0.798,0.836,0.750,0.729,0.767,0.845,0.702,0.761,(4.1384)+(0.0417)Ser+(-0.1260)His+(-0.0120)Arg+(0.0050)Val+(-0.1179)Met+(0.0301)Orn;0.798,0.835,0.808,0.808,0.800,0.828,0.808,0.811,(6.8176)+(-0.0823)Asn+(0.0008)Gly+(-0.0325)Val+(0.0323)Orn+(0.0570)Leu+(-0.1278)Trp;0.798,0.834,0.814,0.818,0.803,0.815,0.825,0.815,(4.4890)+(-0.0694)Asn+(0.0064)Gln+(-0.0132)Arg+(-0.0127)Tyr+(0.0514)Ile+(-0.1543)Trp;0.798,0.833,0.783,0.759,0.773,0.850,0.815,0.799,(2.4512)+(0.0085)Gln+(-0.1501)His+(-0.0065)Ala+(-0.0741)Cit+(0.0366)Orn+(0.0780)Phe;0.798,0.831,0.810,0.805,0.828,0.803,0.790,0.807,(7.5991)+(-0.0441)Asn+(-0.0697)Cit+(0.0072)Pro+(0.0026)Lys+(0.0108)Leu+(-0.1531)Trp;0.798,0.831,0.785,0.768,0.783,0.835,0.801,0.797,(3.5347)+(0.0105)Gln+(-0.1461)His+(0.0052)Pro+(-0.1595)Met+(0.0161)Orn+(0.0159)Leu;0.798,0.831,0.790,0.798,0.782,0.835,0.758,0.793,(3.3471)+(0.0275)Ser+(-0.0024)Thr+(-0.0048)Ala+(0.0011)Val+(0.0177)Orn+(-0.1449)Trp;0.798,0.829,0.834,0.850,0.815,0.842,0.830,0.834,(5.5384)+(-0.0763)Asn+(-0.0005)Gly+(0.0062)Gln+(-0.0054)Ala+(0.0096)Pro+(-0.1347)Trp;0.798,0.823,0.801,0.788,0.787,0.846,0.834,0.814,(4.5522)+(-0.0816)Asn+(0.0123)Gln+(-0.1308)His+(-0.0334)Cit+(-0.0198)Val+(0.0447)Leu;0.798,0.831,0.819,0.837,0.803,0.822,0.806,0.817,(4.7385)+(0.0053)Gln+(-0.0045)Ala+(0.0122)Pro+(-0.1575)Met+(0.0061)Lys+(-0.1363)Trp;0.798,0.830,0.805,0.822,0.820,0.826,0.714,0.796,(7.1354)+(0.0287)Thr+(-0.0016)Ala+(-0.0129)Arg+(0.0016)Val+(-0.1533)Met+(-0.1398)Trp;0.798,0.831,0.765,0.774,0.764,0.796,0.720,0.763,(3.3967)+(0.0277)Ser+(-0.0003)Gln+(0.0067)Pro+(-0.0159)Tyr+(-0.0012)Val+(-0.1477)Trp;0.798,0.8

31,0.751,0.746,0.697,0.805,0.833,0.771,(2.5927)+(-0.0708)Cit+(-0.0592)Tyr+(-0.0490)Val+(-0.0134)Lys+(0.1568)Ile+(0.0827)Phe;0.798,0.829,0.798,0.774,0.818,0.820,0.806,0.804,(8.5090)+(-0.0001)Asn+(-0.0839)His+(-0.0384)Cit+(0.0139)Tyr+(0.0243)Leu+(-0.1231)Trp;0.798,0.828,0.719,0.694,0.726,0.818,0.701,0.735,(3.7735)+(0.0340)Ser+(-0.1354)His+(-0.0011)Thr+(0.0071)Pro+(-0.0226)Tyr+(0.0255)Orn;0.798,0.824,0.706,0.674,0.712,0.801,0.709,0.724,(3.3308)+(0.0376)Ser+(-0.1474)His+(0.0032)Thr+(0.0050)Pro+(-0.0235)Tyr+(0.0193)Leu;0.798,0.836,0.754,0.749,0.767,0.851,0.671,0.760,(5.1867)+(0.0358)Ser+(-0.1168)His+(0.0213)Thr+(0.0002)Ala+(-0.0142)Arg+(-0.1465)Met;0.798,0.832,0.782,0.764,0.786,0.814,0.796,0.790,(4.4369)+(-0.1168)His+(-0.0027)Arg+(-0.0077)Val+(-0.1695)Met+(0.0303)Orn+(0.1154)Phe;0.798,0.830,0.735,0.713,0.752,0.795,0.714,0.744,(4.4124)+(-0.0804)Asn+(0.0071)Gly+(-0.1399)His+(0.0207)Thr+(-0.0506)Cit+(0.0940)Phe;0.798,0.829,0.774,0.749,0.784,0.802,0.801,0.784,(4.2112)+(-0.1229)His+(0.0050)Pro+(-0.1955)Met+(0.0220)Orn+(-0.0012)Leu+(0.1047)Phe;0.798,0.828,0.775,0.751,0.785,0.807,0.795,0.785,(4.1824)+(0.0177)Asn+(-0.1284)His+(-0.0016)Arg+(-0.1928)Met+(0.0247)Orn+(0.1070)Phe;0.798,0.827,0.734,0.702,0.731,0.796,0.782,0.753,(3.9582)+(-0.0387)Asn+(0.0063)Gly+(-0.1405)His+(-0.0046)Lys+(0.0361)Ile+(0.0652)Phe;0.798,0.826,0.742,0.723,0.704,0.815,0.822,0.766,(5.5455)+(0.0015)Gly+(-0.0951)His+(-0.0193)Tyr+(-0.0334)Val+(-0.0006)Lys+(0.1302)Ile;0.798,0.825,0.721,0.710,0.667,0.816,0.792,0.746,(-0.9566)+(0.0293)Ser+(-0.0429)Arg+(-0.0032)Pro+(-0.0599)Val+(0.1648)Ile+(0.0473)Phe;0.798,0.823,0.755,0.746,0.751,0.842,0.726,0.766,(3.2209)+(0.0282)Ser+(0.0064)Gln+(-0.1410)His+(0.0034)Thr+(-0.0370)Cit+(-0.0075)Tyr;0.798,0.838,0.756,0.737,0.771,0.852,0.706,0.767,(4.3491)+(0.0402)Ser+(-0.1206)His+(-0.0126)Arg+(0.0088)Tyr+(-0.1201)Met+(0.0330)Orn;0.798,0.836,0.818,0.818,0.811,0.819,0.830,0.820,(4.3791)+(-0.0717)Asn+(0.0064)Gln+(-0.013

8)Arg+(-0.0014)Lys+(0.0505)Ile+(-0.1583)Trp;0.798,0.833,0.827,0.838,0.824,0.818,0.812,0.823,(4.8515)+(-0.0506)Asn+(0.0071)Gln+(0.0072)Pro+(-0.1414)Met+(0.0099)Leu+(-0.1387)Trp;0.798,0.832,0.808,0.813,0.815,0.842,0.758,0.807,(8.9816)+(-0.0138)Asn+(0.0043)Gly+(-0.0659)His+(-0.0371)Cit+(0.0043)Met+(-0.0975)Trp;0.798,0.829,0.817,0.822,0.829,0.822,0.774,0.812,(5.3944)+(0.0055)Gln+(-0.0781)Cit+(-0.0056)Arg+(0.0077)Pro+(-0.0008)Lys+(-0.1591)Trp;0.798,0.834,0.835,0.850,0.833,0.832,0.803,0.830,(6.0655)+(-0.1092)Asn+(-0.0022)Gly+(0.0060)Gln+(0.0173)Thr+(-0.0035)Val+(-0.1418)Trp;0.798,0.831,0.751,0.719,0.738,0.819,0.811,0.772,(5.3310)+(-0.1171)His+(-0.0045)Pro+(0.0246)Orn+(-0.0027)Lys+(0.1108)Ile+(-0.0462)Leu;0.798,0.825,0.712,0.699,0.663,0.813,0.776,0.738,(-0.8923)+(0.0276)Ser+(-0.0462)Arg+(-0.0610)Val+(0.0141)Orn+(0.1606)Ile+(0.0422)Phe;0.798,0.824,0.795,0.796,0.781,0.840,0.789,0.801,(5.0703)+(-0.0760)Asn+(-0.0007)Gly+(0.0101)Gln+(-0.1360)His+(0.0157)Thr+(-0.0144)Tyr;0.798,0.833,0.777,0.743,0.797,0.825,0.792,0.789,(4.4312)+(-0.1194)His+(-0.0628)Cit+(0.0084)Arg+(-0.1773)Met+(0.0396)Orn+(0.1025)Phe;0.798,0.821,0.783,0.766,0.763,0.844,0.829,0.800,(4.0410)+(0.0003)Gly+(0.0088)Gln+(-0.1488)His+(-0.0036)Ala+(-0.0141)Val+(0.0382)Leu;0.798,0.829,0.753,0.735,0.749,0.817,0.765,0.767,(4.1678)+(0.0050)Gly+(-0.1393)His+(-0.0049)Ala+(-0.0135)Arg+(0.0257)Orn+(0.0821)Phe;0.798,0.829,0.804,0.798,0.768,0.873,0.849,0.822,(4.7256)+(0.0041)Asn+(-0.0090)Ala+(-0.0734)Cit+(-0.1527)Met+(0.1842)Ile+(-0.0786)Leu;0.798,0.829,0.711,0.676,0.719,0.812,0.713,0.730,(3.4284)+(0.0351)Ser+(-0.1499)His+(0.0022)Thr+(-0.0232)Tyr+(0.0208)Orn+(0.0190)Leu;0.798,0.826,0.769,0.729,0.767,0.847,0.822,0.791,(6.2583)+(-0.0135)Asn+(-0.1083)His+(-0.0085)Ala+(-0.0754)Cit+(0.0453)Orn+(0.0540)Ile;0.798,0.826,0.749,0.711,0.754,0.825,0.788,0.769,(3.0623)+(0.0079)Gln+(-0.1554)His+(0.0033)Thr+(-0.0607)Cit+(0.0241)Orn+(0.0403)Ile;0.798,0.823,0.746,0.714,0.738,0.825

,0.791,0.767,(5.6612)+(-0.1080)His+(0.0108)Thr+(-0.0448)Cit+(-0.0048)Lys+(0.1084)Ile+(-0.0421)Leu;0.798,0.822,0.739,0.713,0.711,0.823,0.806,0.763,(5.1983)+(0.0033)Gly+(-0.0945)His+(-0.0397)Cit+(-0.0014)Pro+(-0.0334)Val+(0.1305)Ile;0.798,0.830,0.793,0.784,0.797,0.796,0.805,0.796,(5.6651)+(-0.0051)Arg+(0.0025)Pro+(-0.1688)Met+(0.0109)Orn+(0.0593)Ile+(-0.1428)Trp;0.798,0.828

,0.796,0.783,0.789,0.837,0.814,0.806,(3.6620)+(-0.0193)Asn+(0.0118)Gln+(-0.1433)His+(0.0057)Pro+(-0.1445)Met+(0.0176)Leu;0.798,0.826,0.709,0.676,0.674,0.822,0.791,0.741,(-0.5002)+(0.0333)Ser+(-0.0740)Cit+(-0.0485)Val+(-0.0292)Lys+(0.1569)Ile+(0.0589)Phe;0.798,0.832,0.797,0.806,0.817,0.808,0.726,0.789,(6.9726)+(-0.0352)Asn+(0.0304)Thr+(-0.0109)Arg+(-0.1661)Met+(0.0161)Leu+(-0.1468)Trp;0.798,0.832,0.794,0.793,0.820,0.813,0.726,0.788,(6.8837)+(0.0008)Gly+(0.0135)Thr+(-0.0734)Cit+(-0.0075)Arg+(0.0071)Pro+(-0.1602)Trp;0.798,0.829,0.843,0.861,0.834,0.838,0.817,0.838,(5.1707)+(-0.0615)Asn+(0.0072)Gln+(-0.0012)Ala+(-0.0978)Met+(0.0074)Lys+(-0.1368)Trp;0.798,0.827,0.734,0.733,0.645,0.840,0.847,0.766,(1.1208)+(0.0202)Ser+(-0.0114)Ala+(0.0066)Pro+(-0.0289)Tyr+(-0.0492)Val+(0.1637)Ile;0.798,0.827,0.836,0.849,0.838,0.848,0.789,0.831,(5.5651)+(0.0005)Gly+(0.0061)Gln+(-0.0029)Ala+(-0.0702)Cit+(-0.0024)Arg+(-0.1461)Trp;0.798,0.826,0.761,0.735,0.762,0.823,0.782,0.775,(3.9141)+(0.0080)Gln+(-0.1628)His+(0.0087)Thr+(0.0160)Orn+(-0.0089)Lys+(0.0144)Leu;0.798,0.825,0.743,0.731,0.660,0.853,0.870,0.779,(0.2009)+(0.0268)Ser+(-0.0139)Thr+(-0.0112)Ala+(-0.0509)Val+(0.0147)Orn+(0.1684)Ile;0.798,0.831,0.776,0.783,0.780,0.811,0.724,0.774,(3.1862)+(0.0293)Ser+(-0.0000)Gln+(-0.0024)Thr+(0.0166)Orn+(-0.0067)Lys+(-0.1454)Trp;0.798,0.831,0.793,0.798,0.788,0.806,0.783,0.794,(3.8142)+(0.0370)Ser+(-0.0087)Gly+(0.0009)Gln+(0.0019)Thr+(-0.0144)Tyr+(-0.1480)Trp;0.798,0.830,0.737,0.727,0.727,0.786,0.750,0.747,(4.0422)+(0.0032)Gly+(-0.

1412)His+(-0.0439)Tyr+(0.0268)Orn+(-0.0015)Leu+(0.0948)Phe;0.798,0.83
0,0.815,0.802,0.824,0.835,0.816,0.819,(8.6570)+(-0.0843)His+(-0.0017)
Ala+(0.0248)Tyr+(0.0081)Val+(-0.0489)Met+(-0.1090)Trp;0.798,0.825,0.7
48,0.723,0.733,0.818,0.795,0.767,(5.2786)+(-0.0363)Asn+(0.0042)Gly+(-
0.1094)His+(0.0020)Lys+(0.1090)Ile+(-0.0449)Leu;0.798,0.834,0.793,0.7
80,0.799,0.801,0.809,0.797,(5.1384)+(0.0022)Gly+(0.0020)Pro+(0.0158)T
yr+(-0.2034)Met+(0.0641)Ile+(-0.1462)Trp;0.798,0.830,0.739,0.709,0.74
3,0.798,0.768,0.754,(4.3500)+(-0.1473)His+(0.0152)Thr+(-0.0074)Val+(0
.0234)Orn+(-0.0080)Lys+(0.0840)Phe;0.798,0.829,0.822,0.816,0.829,0.82
6,0.819,0.822,(7.6693)+(-0.0368)Asn+(-0.0039)Ala+(-0.0733)Cit+(0.0113
)Arg+(0.0212)Leu+(-0.1481)Trp;0.798,0.829,0.758,0.730,0.738,0.831,0.8
22,0.780,(5.9548)+(-0.1218)His+(-0.0066)Ala+(0.0040)Pro+(-0.0249)Tyr+
(0.0257)Orn+(0.0519)Ile;0.798,0.825,0.719,0.709,0.679,0.826,0.755,0.7
42,(1.6506)+(0.0160)Ser+(-0.0943)Cit+(-0.0508)Tyr+(-0.0468)Val+(0.038
9)Orn+(0.1425)Ile;0.798,0.824,0.748,0.722,0.718,0.823,0.827,0.773,(5.
7353)+(-0.0857)His+(-0.0366)Cit+(-0.0318)Val+(-0.0025)Lys+(0.1415)Ile
+(-0.0118)Leu;0.798,0.832,0.764,0.743,0.752,0.810,0.810,0.779,(5.1637
)+(-0.0591)Asn+(-0.1353)His+(0.0203)Thr+(-0.0061)Ala+(0.0046)Pro+(0.0
816)Phe;0.798,0.830,0.729,0.703,0.739,0.825,0.708,0.744,(4.0076)+(0.0
352)Ser+(-0.1382)His+(-0.0148)Tyr+(0.0048)Val+(0.0272)Orn+(-0.0050)Ly
s;0.798,0.830,0.805,0.800,0.826,0.818,0.765,0.802,(6.6114)+(0.0037)Gl
y+(-0.0754)Cit+(0.0101)Arg+(-0.0981)Met+(0.0216)Leu+(-0.1499)Trp;0.79
8,0.830,0.790,0.782,0.791,0.798,0.800,0.793,(5.4827)+(0.0019)Gly+(-0.
0034)Arg+(0.0029)Pro+(-0.1734)Met+(0.0636)Ile+(-0.1423)Trp;0.798,0.82
7,0.739,0.719,0.753,0.830,0.693,0.749,(4.4939)+(0.0356)Ser+(-0.1301)H
is+(-0.0180)Arg+(-0.0131)Tyr+(0.0331)Orn+(0.0004)Lys;0.798,0.834,0.83
7,0.845,0.822,0.839,0.847,0.838,(5.4978)+(-0.0982)Asn+(0.0001)Gly+(0.
0065)Gln+(-0.0265)Val+(0.0511)Leu+(-0.1362)Trp;0.798,0.831,0.813,0.81

2,0.829,0.819,0.776,0.809,(4.9516)+(0.0012)Gly+(0.0052)Gln+(-0.0809)C
it+(-0.0041)Arg+(0.0150)Leu+(-0.1689)Trp;0.798,0.830,0.743,0.734,0.70
2,0.822,0.797,0.764,(-1.2913)+(0.0436)Ser+(-0.1852)Asn+(-0.0051)Pro+(
0.1535)Ile+(-0.0924)Leu+(0.0777)Phe;0.798,0.830,0.770,0.772,0.760,0.7
73,0.782,0.772,(3.9802)+(0.0018)Gln+(0.0054)Thr+(-0.0280)Tyr+(0.0002)
Orn+(0.0516)Ile+(-0.1675)Trp;0.798,0.826,0.833,0.839,0.839,0.844,0.79
9,0.830,(5.3424)+(0.0060)Gln+(-0.0041)Ala+(-0.0776)Cit+(-0.0014)Arg+(
0.0069)Val+(-0.1562)Trp;0.798,0.825,0.769,0.763,0.754,0.818,0.782,0.7
79,(4.7123)+(-0.0484)Asn+(0.0059)Gly+(-0.1264)His+(-0.0034)Ala+(-0.00
49)Val+(0.1015)Phe;0.798,0.833,0.826,0.846,0.821,0.829,0.779,0.819,(5
.9212)+(-0.1080)Asn+(0.0058)Gln+(0.0169)Thr+(-0.0086)Tyr+(-0.0028)Val
+(-0.1388)Trp;0.798,0.832,0.775,0.781,0.781,0.810,0.720,0.773,(3.2748
)+(0.0285)Ser+(-0.0001)Gln+(-0.0000)Val+(0.0158)Orn+(-0.0073)Lys+(-0.
1464)Trp;0.798,0.832,0.809,0.802,0.828,0.806,0.791,0.807,(7.6869)+(-0
.0393)Asn+(-0.0702)Cit+(0.0072)Pro+(-0.0003)Tyr+(0.0124)Leu+(-0.1520)
Trp;0.798,0.829,0.809,0.809,0.814,0.818,0.791,0.808,(8.5098)+(-0.0819
)His+(0.0001)Ala+(-0.0048)Arg+(-0.0566)Met+(0.0155)Lys+(-0.1024)Trp;0
.798,0.827,0.723,0.682,0.750,0.830,0.698,0.740,(3.6211)+(0.0360)Ser+(
-0.1328)His+(-0.0033)Thr+(-0.0621)Cit+(0.0045)Pro+(0.0406)Orn;0.798,0
.827,0.808,0.801,0.794,0.851,0.827,0.818,(4.2511)+(-0.0461)Asn+(0.012
5)Gln+(-0.1462)His+(-0.0030)Ala+(-0.0130)Arg+(0.0159)Leu;0.798,0.822,
0.699,0.680,0.654,0.797,0.771,0.726,(-0.0650)+(0.0352)Ser+(-0.0044)Gl
n+(-0.0388)Arg+(-0.0607)Val+(0.1657)Ile+(0.0528)Phe;0.798,0.832,0.725
,0.703,0.718,0.771,0.766,0.740,(-4.9560)+(0.0610)Ser+(-0.0052)Gly+(-0
.4398)Met+(-0.0107)Orn+(0.0576)Ile+(0.0881)Phe;0.798,0.830,0.782,0.76
1,0.779,0.813,0.821,0.794,(4.3686)+(0.0200)Asn+(-0.1181)His+(-0.0043)
Ala+(0.0097)Pro+(-0.2010)Met+(0.1150)Phe;0.798,0.828,0.756,0.730,0.74
6,0.817,0.797,0.773,(4.8514)+(-0.1473)His+(0.0197)Thr+(-0.0052)Ala+(-

0.0086)Lys+(0.0069)Leu+(0.0791)Phe;0.798,0.832,0.816,0.813,0.835,0.81
5,0.785,0.812,(7.0921)+(-0.0612)Cit+(0.0100)Pro+(0.0160)Tyr+(-0.1366)
Met+(0.0082)Lys+(-0.1456)Trp;0.798,0.831,0.748,0.727,0.724,0.831,0.79
4,0.769,(-1.4885)+(0.0507)Ser+(-0.0056)Gly+(0.0081)Thr+(-0.0072)Ala+(
-0.3334)Met+(0.0772)Ile;0.798,0.830,0.747,0.717,0.752,0.822,0.759,0.7
63,(1.7155)+(0.0037)Gly+(0.0076)Gln+(-0.1651)His+(-0.0672)Cit+(0.0290
)Orn+(0.0724)Phe;0.798,0.828,0.830,0.834,0.843,0.851,0.776,0.826,(7.9
054)+(-0.0447)Asn+(0.0040)Gly+(-0.0025)Ala+(-0.0677)Cit+(0.0227)Tyr+(
-0.1366)Trp;0.798,0.828,0.796,0.790,0.786,0.851,0.794,0.805,(4.2922)+
(0.0001)Gly+(0.0094)Gln+(-0.1360)His+(-0.0014)Ala+(-0.1003)Met+(0.026
9)Orn;0.798,0.827,0.716,0.680,0.717,0.817,0.735,0.737,(3.4727)+(0.034
7)Ser+(-0.1427)His+(-0.0167)Tyr+(-0.0188)Val+(0.0254)Orn+(0.0453)Leu;
0.798,0.833,0.798,0.787,0.808,0.803,0.799,0.799,(6.7564)+(-0.0693)Cit
+(-0.0000)Arg+(0.0074)Pro+(-0.0179)Val+(0.0406)Leu+(-0.1575)Trp;0.798
,0.830,0.809,0.802,0.823,0.827,0.785,0.809,(6.4977)+(0.0037)Gly+(-0.0
053)Ala+(-0.0793)Cit+(0.0147)Tyr+(0.0227)Leu+(-0.1599)Trp;0.798,0.830
,0.789,0.779,0.794,0.797,0.801,0.793,(5.2477)+(0.0015)Gly+(-0.1761)Me
t+(0.0085)Orn+(0.0004)Lys+(0.0635)Ile+(-0.1435)Trp;0.798,0.826,0.737,
0.707,0.725,0.813,0.785,0.757,(5.0104)+(0.0024)Gly+(-0.1222)His+(0.00
71)Thr+(-0.0035)Lys+(0.1011)Ile+(-0.0384)Leu;0.798,0.830,0.808,0.819,
0.813,0.813,0.763,0.802,(7.3905)+(-0.0859)Asn+(-0.0009)Gly+(0.0180)Th
r+(0.0057)Pro+(-0.0048)Val+(-0.1365)Trp;0.798,0.827,0.744,0.755,0.768
,0.784,0.637,0.736,(-2.4261)+(0.0411)Ser+(0.0205)Thr+(-0.0767)Cit+(-0
.0104)Val+(-0.4156)Met+(0.1406)Phe;0.798,0.825,0.753,0.741,0.749,0.84
5,0.726,0.765,(5.0005)+(0.0380)Ser+(-0.0698)Asn+(-0.1189)His+(0.0094)
Thr+(-0.0019)Ala+(0.0023)Lys;0.798,0.834,0.776,0.766,0.781,0.789,0.78
3,0.780,(3.0750)+(0.0385)Ser+(-0.0082)Gly+(-0.0006)Gln+(0.0093)Orn+(0
.0075)Leu+(-0.1620)Trp;0.798,0.831,0.776,0.783,0.780,0.811,0.724,0.77

5,(3.1715)+(0.0293)Ser+(-0.0024)Thr+(0.0001)Val+(0.0165)Orn+(-0.0067)Lys+(-0.1456)Trp;0.798,0.830,0.757,0.740,0.762,0.842,0.732,0.769,(4.2656)+(0.0445)Ser+(-0.0235)Asn+(-0.1213)His+(-0.0014)Ala+(0.0088)Val+(-0.0975)Met;0.798,0.828,0.730,0.694,0.731,0.795,0.777,0.749,(3.7523)+(-0.0478)Asn+(0.0060)Gly+(-0.1440)His+(0.0137)Orn+(0.0300)Ile+(0.0596)Phe;0.798,0.828,0.813,0.822,0.807,0.827,0.790,0.812,(6.9672)+(-0.0462)Asn+(-0.0058)Ala+(-0.0094)Arg+(0.0095)Pro+(0.0258)Orn+(-0.1288)Trp;0.798,0.823,0.789,0.782,0.779,0.836,0.795,0.798,(4.6151)+(-0.0786)Asn+(0.0102)Gln+(-0.1426)His+(0.0123)Thr+(0.0035)Pro+(-0.0005)Lys;0.798,0.836,0.789,0.759,0.804,0.840,0.801,0.801,(4.9051)+(-0.1116)His+(-0.0042)Ala+(-0.0647)Cit+(-0.1392)Met+(0.0440)Orn+(0.1016)Phe;0.798,0.837,0.796,0.810,0.795,0.755,0.788,0.787,(3.7939)+(-0.0008)Gly+(-0.0347)Tyr+(0.0128)Orn+(-0.0043)Lys+(0.0855)Phe+(-0.1549)Trp;0.798,0.833,0.734,0.714,0.706,0.825,0.783,0.757,(-1.3306)+(0.0470)Ser+(-0.0010)Gln+(-0.0098)Ala+(0.0105)Pro+(-0.3185)Met+(0.0727)Ile;0.798,0.827,0.743,0.724,0.746,0.844,0.712,0.757,(4.4049)+(0.0378)Ser+(-0.1371)His+(0.0079)Thr+(-0.0031)Ala+(-0.0163)Arg+(0.0068)Val;0.798,0.827,0.755,0.733,0.729,0.828,0.815,0.776,(5.5705)+(0.0038)Gly+(-0.1209)His+(-0.0069)Ala+(0.0048)Pro+(-0.0161)Tyr+(0.0588)Ile;0.798,0.822,0.739,0.711,0.714,0.823,0.805,0.763,(5.3689)+(0.0035)Gly+(-0.0904)His+(-0.0411)Cit+(-0.0334)Val+(-0.0041)Lys+(0.1322)Ile;0.798,0.836,0.759,0.753,0.776,0.857,0.668,0.763,(5.3082)+(0.0360)Ser+(-0.1119)His+(0.0224)Thr+(-0.0273)Cit+(-0.0100)Arg+(-0.1493)Met;0.798,0.831,0.835,0.851,0.830,0.832,0.805,0.829,(5.2189)+(-0.0577)Asn+(-0.0011)Gly+(0.0068)Gln+(-0.1046)Met+(0.0216)Orn+(-0.1327)Trp;0.798,0.828,0.833,0.849,0.833,0.838,0.786,0.826,(5.2023)+(-0.0542)Asn+(0.0071)Gln+(-0.0106)Arg+(-0.0977)Met+(0.0241)Orn+(-0.1309)Trp;0.798,0.826,0.766,0.755,0.751,0.823,0.787,0.779,(4.5579)+(-0.0417)Asn+(0.0060)Gly+(-0.1336)His+(-0.0043)Ala+(0.0031)Leu+(0

.0898)Phe;0.798,0.833,0.811,0.800,0.815,0.815,0.831,0.815,(6.4729)+(0.0088)Pro+(0.0222)Tyr+(-0.0298)Val+(-0.1888)Met+(0.0598)Leu+(-0.1319)Trp;0.798,0.832,0.820,0.834,0.818,0.814,0.787,0.813,(5.4325)+(-0.1111)Asn+(0.0054)Gln+(0.0137)Thr+(0.0036)Pro+(0.0006)Lys+(-0.1475)Trp;0.798,0.832,0.799,0.804,0.803,0.858,0.739,0.801,(4.9341)+(0.0107)Gln+(-0.1319)His+(0.0265)Thr+(-0.0253)Cit+(-0.0172)Arg+(-0.1579)Met;0.798,0.831,0.776,0.743,0.770,0.838,0.833,0.796,(6.1925)+(-0.1126)His+(-0.0053)Ala+(-0.0003)Arg+(-0.1269)Met+(0.0255)Orn+(0.0628)Ile;0.798,0.830,0.799,0.816,0.802,0.808,0.744,0.793,(7.3953)+(-0.0839)Asn+(0.0184)Thr+(0.0066)Pro+(-0.0123)Tyr+(-0.0042)Val+(-0.1328)Trp;0.798,0.829,0.727,0.697,0.746,0.829,0.693,0.741,(3.9423)+(0.0382)Ser+(-0.1352)His+(-0.0186)Arg+(0.0059)Pro+(0.0261)Orn+(-0.0023)Lys;0.798,0.823,0.744,0.741,0.656,0.847,0.860,0.776,(0.8492)+(0.0249)Ser+(-0.0080)Thr+(-0.0102)Ala+(-0.0187)Tyr+(-0.0486)Val+(0.1691)Ile;0.798,0.835,0.803,0.803,0.799,0.801,0.815,0.804,(6.3303)+(
0.0102)Pro+(-0.0291)Val+(-0.1817)Met+(0.0086)Lys+(0.0554)Leu+(-0.1332)Trp;0.798,0.834,0.780,0.777,0.773,0.824,0.773,0.787,(3.1185)+(0.0327)Ser+(-0.0052)Ala+(0.0016)Tyr+(-0.0082)Lys+(0.0215)Leu+(-0.1503)Trp;0.798,0.834,0.756,0.761,0.759,0.785,0.717,0.755,(2.8296)+(0.0269)Ser+(0.0044)Pro+(-0.0215)Tyr+(0.0084)Orn+(0.0080)Leu+(-0.1565)Trp;0.798,0.831,0.776,0.789,0.762,0.809,0.744,0.776,(-2.1689)+(0.0523)Ser+(-0.0962)Asn+(-0.0032)Ala+(-0.2704)Met+(-0.0040)Leu+(0.1143)Phe;0.798,0.829,0.812,0.810,0.829,0.816,0.778,0.808,(7.3961)+(-0.0678)Cit+(0.0072)Arg+(0.0099)Pro+(0.0027)Val+(-0.0948)Met+(-0.1409)Trp;0.798,0.832,0.786,0.766,0.784,0.811,0.827,0.797,(4.3446)+(-0.1207)His+(-0.0046)Ala+(0.0094)Pro+(-0.2015)Met+(0.0077)Lys+(0.1115)Phe;0.798,0.835,0.783,0.776,0.793,0.754,0.803,0.782,(3.6370)+(-0.0197)Arg+(-0.0009)Pro+(0.0027)Orn+(0.0426)Ile+(0.0543)Phe+(-0.1793)Trp;0.798,0.831,0.769,0.760,0.754,

0.804,0.801,0.780,(5.1580)+(-0.0278)Asn+(-0.1255)His+(-0.0032)Ala+(-0.0396)Tyr+(0.0309)Orn+(0.0934)Phe;0.798,0.828,0.798,0.790,0.751,0.874,0.864,0.820,(4.8959)+(-0.0488)Asn+(-0.0123)Ala+(-0.0818)Cit+(0.0060)Pro+(0.1679)Ile+(-0.0788)Leu;0.798,0.824,0.784,0.785,0.768,0.832,0.779,0.791,(4.8913)+(-0.0771)Asn+(0.0099)Gln+(-0.1355)His+(0.0146)Thr+(0.0054)Pro+(-0.0209)Tyr;0.798,0.833,0.821,0.837,0.822,0.821,0.782,0.815,(5.4176)+(-0.1088)Asn+(0.0052)Gln+(0.0132)Thr+(0.0124)Orn+(-0.0006)Lys+(-0.1456)Trp;0.798,0.831,0.816,0.821,0.832,0.845,0.750,0.812,(7.2443)+(0.0004)Gly+(0.0165)Thr+(-0.0038)Ala+(-0.0713)Cit+(0.0045)Tyr+(-0.1508)Trp;0.798,0.824,0.789,0.782,0.779,0.837,0.794,0.798,(4.6535)+(-0.0800)Asn+(0.0101)Gln+(-0.1413)His+(0.0123)Thr+(0.0037)Pro+(-0.0008)Val;0.798,0.823,0.793,0.788,0.782,0.841,0.794,0.802,(4.7167)+(-0.0770)Asn+(0.0103)Gln+(-0.1429)His+(0.0133)Thr+(0.0008)Val+(-0.0004)Lys;0.798,0.823,0.793,0.790,0.781,0.841,0.792,0.801,(4.7643)+(-0.0782)Asn+(0.0000)Gly+(0.0102)Gln+(-0.1415)His+(0.0133)Thr+(-0.0001)Lys;0.798,0.822,0.785,0.771,0.779,0.833,0.805,0.797,(3.8932)+(-0.0648)Asn+(0.0016)Gly+(0.0109)Gln+(-0.1499)His+(0.0024)Pro+(0.0122)Leu;0.798,0.840,0.724,0.704,0.721,0.789,0.736,0.738,(-4.2243)+(0.0534)Ser+(-0.0141)Tyr+(-0.3796)Met+(-0.0168)Lys+(0.0638)Ile+(0.0988)Phe;0.798,0.829,0.753,0.736,0.730,0.832,0.787,0.771,(-0.9131)+(0.0491)Ser+(-0.0590)Asn+(-0.0071)Ala+(-0.2560)Met+(0.0033)Orn+(0.0745)Ile;0.798,0.829,0.788,0.773,0.783,0.811,0.820,0.797,(4.6892)+(-0.1093)His+(-0.0037)Ala+(0.0103)Pro+(-0.0056)Val+(-0.1833)Met+(0.1213)Phe;0.798,0.827,0.724,0.691,0.733,0.792,0.744,0.740,(3.9059)+(0.0032)Gly+(-0.1561)His+(0.0138)Thr+(0.0180)Orn+(-0.0095)Lys+(0.0774)Phe;0.798,0.833,0.798,0.802,0.799,0.858,0.745,0.801,(4.7462)+(0.0109)Gln+(-0.1397)His+(0.0263)Thr+(-0.0209)Arg+(0.0084)Tyr+(-0.1690)Met;0.798,0.831,0.810,0.797,0.826,0.826,0.799,0.812,(8.6961)+(-0.0750)His+(-0.0439)Cit+(0.0103)Arg+(0.0101)Val+(-0.

0273)Met+(-0.1129)Trp;0.798,0.831,0.740,0.704,0.732,0.815,0.798,0.762,(5.1764)+(-0.1234)His+(0.0069)Thr+(0.0203)Orn+(-0.0050)Lys+(0.0976)Ile+(-0.0400)Leu;0.798,0.831,0.782,0.786,0.782,0.826,0.743,0.784,(3.6219)+(0.0301)Ser+(0.0060)Thr+(-0.0050)Ala+(-0.0190)Arg+(0.0174)Leu+(-0.1549)Trp;0.798,0.829,0.762,0.759,0.706,0.833,0.836,0.783,(5.5807)+(-0.1301)Asn+(-0.0300)Tyr+(-0.0564)Val+(0.0355)Orn+(0.0001)Lys+(0.1647)Ile;0.798,0.828,0.795,0.775,0.804,0.819,0.811,0.802,(8.7118)+(-0.0032)Asn+(-0.0783)His+(-0.0319)Cit+(-0.0146)Val+(0.0485)Leu+(-0.1138)Trp;0.798,0.827,0.758,0.739,0.768,0.847,0.724,0.769,(4.2692)+(0.0441)Ser+(-0.1189)His+(-0.0021)Ala+(-0.0342)Cit+(0.0109)Val+(-0.1090)Met;0.798,0.824,0.743,0.722,0.757,0.836,0.706,0.755,(4.8001)+(0.0407)Ser+(-0.0661)Asn+(-0.1225)His+(0.0099)Thr+(-0.0358)Cit+(0.0043)Val;0.798,0.835,0.763,0.752,0.773,0.856,0.708,0.772,(5.0995)+(0.0402)Ser+(-0.0038)Gly+(-0.1110)His+(0.0205)Thr+(-0.0287)Cit+(-0.1565)Met;0.798,0.833,0.797,0.771,0.815,0.820,0.811,0.804,(8.2467)+(-0.0857)His+(-0.0433)Cit+(0.0078)Arg+(0.0111)Tyr+(0.0252)Leu+(-0.1246)Trp;0.798,0.832,0.818,0.822,0.835,0.847,0.753,0.814,(7.4029)+(0.0174)Thr+(-0.0037)Ala+(-0.0708)Cit+(0.0046)Tyr+(-0.0015)Lys+(-0.1499)Trp;0.798,0.832,0.815,0.821,0.824,0.822,0.774,0.810,(5.4458)+(0.0054)Gln+(-0.0799)Cit+(0.0083)Pro+(-0.0086)Tyr+(-0.0015)Lys+(-0.1561)Trp;0.798,0.828,0.754,0.749,0.753,0.795,0.742,0.760,(4.7554)+(-0.0431)Asn+(0.0071)Gly+(-0.1239)His+(-0.0427)Cit+(-0.0338)Tyr+(0.1130)Phe;0.798,0.834,0.763,0.765,0.776,0.794,0.707,0.761,(3.1939)+(0.0320)Ser+(0.0012)Thr+(-0.0227)Arg+(0.0054)Pro+(0.0085)Leu+(-0.1590)Trp;0.798,0.831,0.832,0.849,0.822,0.843,0.798,0.828,(5.7994)+(-0.1031)Asn+(0.0057)Gln+(0.0167)Thr+(-0.0037)Ala+(0.0014)Lys+(-0.1427)Trp;0.798,0.829,0.812,0.812,0.820,0.824,0.788,0.811,(8.6500)+(-0.0738)His+(-0.0001)Ala+(-0.0268)Cit+(-0.0497)Met+(0.0138)Lys+(-0.1042)Trp;0.798,0.834,0.752,0.756,0.756,0.780,0.717,0.752,(3.007

4)+(0.0289)Ser+(-0.0006)Gln+(0.0051)Pro+(-0.0190)Tyr+(0.0096)Leu+(-0.1563)Trp;0.798,0.834,0.781,0.758,0.770,0.839,0.823,0.798,(6.4282)+(-0.0786)His+(-0.0373)Cit+(0.0004)Pro+(-0.1439)Met+(0.1365)Ile+(-0.0528)Leu;0.798,0.833,0.753,0.749,0.766,0.845,0.670,0.757,(4.8931)+(0.0356)Ser+(-0.1203)His+(0.0210)Thr+(-0.0173)Arg+(-0.1693)Met+(0.0081)Lys;0.798,0.832,0.766,0.755,0.689,0.838,0.903,0.796,(2.1889)+(-0.0003)Gly+(-0.0106)Ala+(-0.0531)Val+(-0.0139)Lys+(0.1734)Ile+(0.0468)Phe;0.798,0.828,0.764,0.727,0.750,0.838,0.838,0.788,(5.8060)+(-0.1232)His+(-0.0073)Ala+(0.0029)Pro+(0.0237)Orn+(-0.0045)Lys+(0.0522)Ile;0.798,0.832,0.793,0.796,0.785,0.847,0.763,0.798,(4.4670)+(0.0091)Gln+(-0.1372)His+(0.0215)Thr+(-0.0003)Ala+(-0.1764)Met+(0.0035)Lys;0.798,0.830,0.812,0.828,0.806,0.820,0.777,0.808,(4.7535)+(0.0049)Gln+(0.0084)Pro+(-0.0031)Val+(-0.1679)Met+(0.0184)Orn+(-0.1318)Trp;0.798,0.829,0.830,0.830,0.848,0.855,0.777,0.828,(7.3065)+(0.0037)Gly+(-0.0021)Ala+(-0.0642)Cit+(0.0334)Tyr+(-0.0891)Met+(-0.1373)Trp;0.798,0.828,0.742,0.726,0.747,0.833,0.711,0.754,(4.7741)+(0.0435)Ser+(-0.0627)Asn+(-0.1097)His+(-0.0310)Cit+(0.0094)Pro+(-0.0121)Tyr;0.798,0.828,0.738,0.715,0.743,0.828,0.724,0.753,(4.2511)+(0.0429)Ser+(-0.0657)Asn+(-0.1237)His+(0.0074)Pro+(0.0012)Val+(0.0003)Lys;0.798,0.826,0.737,0.702,0.745,0.786,0.779,0.753,(4.9042)+(-0.0472)Asn+(-0.1473)His+(0.0217)Thr+(-0.0144)Arg+(0.0273)Ile+(0.0604)Phe;0.798,0.824,0.760,0.735,0.741,0.839,0.812,0.782,(5.7468)+(-0.0161)Asn+(0.0049)Gly+(-0.1212)His+(-0.0063)Ala+(-0.0048)Arg+(0.0612)Ile;0.798,0.831,0.798,0.785,0.803,0.799,0.820,0.802,(5.4665)+(0.0023)Pro+(0.0133)Tyr+(-0.1966)Met+(0.0017)Lys+(0.0617)Ile+(-0.1477)Trp;0.798,0.829,0.798,0.801,0.819,0.797,0.748,0.791,(6.1094)+(-0.0015)Gly+(0.0266)Thr+(0.0119)Tyr+(-0.2170)Met+(0.0160)Leu+(-0.1544)Trp;0.798,0.826,0.797,0.803,0.789,0.848,0.765,0.801,(5.1865)+(-0.0654)Asn+(0.0114)Gln+(-0.1376)His+(0.0197)Thr+(-0.0208)Arg+(-0.0133)Tyr;0.

798,0.832,0.793,0.773,0.805,0.810,0.809,0.799,(8.0425)+(-0.0990)His+(-0.0023)Arg+(0.0072)Tyr+(0.0061)Lys+(0.0205)Leu+(-0.1171)Trp;0.798,0.830,0.841,0.859,0.835,0.832,0.816,0.835,(5.1432)+(-0.0614)Asn+(-0.0005)Gly+(0.0073)Gln+(-0.1065)Met+(0.0073)Lys+(-0.1381)Trp;0.798,0.823,0.764,0.742,0.761,0.821,0.789,0.778,(3.9183)+(0.0086)Gln+(-0.1634)His+(0.0102)Thr+(0.0006)Pro+(-0.0082)Lys+(0.0163)Leu;0.798,0.831,0.807,0.813,0.807,0.835,0.773,0.807,(8.6545)+(-0.0097)Asn+(0.0030)Gly+(-0.0765)His+(0.0017)Arg+(-0.0102)Met+(-0.0928)Trp;0.798,0.829,0.776,0.782,0.779,0.809,0.731,0.775,(3.0589)+(0.0285)Ser+(-0.0004)Gln+(-0.0049)Thr+(-0.0014)Val+(0.0153)Orn+(-0.1488)Trp;0.798,0.829,0.805,0.818,0.808,0.809,0.760,0.799,(7.1595)+(-0.0939)Asn+(0.0161)Thr+(0.0060)Pro+(-0.0057)Val+(0.0043)Lys+(-0.1371)Trp;0.797,0.835,0.800,0.816,0.804,0.759,0.777,0.789,(3.9492)+(0.0004)Gly+(-0.0138)Arg+(-0.0284)Tyr+(-0.0005)Leu+(0.0947)Phe+(-0.1579)Trp;0.797,0.833,0.816,0.809,0.822,0.819,0.820,0.817,(7.1698)+(-0.0598)Cit+(0.0107)Arg+(-0.0198)Val+(-0.1043)Met+(0.0525)Leu+(-0.1417)Trp;0.797,0.839,0.732,0.723,0.759,0.787,0.657,0.732,(-2.8771)+(0.0543)Ser+(-0.0850)Cit+(0.0111)Pro+(-0.3811)Met+(-0.0106)Lys+(0.1248)Phe;0.797,0.833,0.764,0.754,0.687,0.837,0.900,0.795,(2.3948)+(-0.0008)Gln+(-0.0105)Ala+(-0.0534)Val+(-0.0132)Lys+(0.1743)Ile+(0.0480)Phe;0.797,0.829,0.790,0.785,0.819,0.803,0.731,0.785,(6.4834)+(0.0010)Gly+(0.0147)Thr+(-0.0771)Cit+(-0.0060)Arg+(0.0153)Leu+(-0.1717)Trp;0.797,0.826,0.736,0.744,0.677,0.790,0.802,0.753,(2.1751)+(-0.0343)Arg+(-0.0587)Tyr+(-0.0580)Val+(0.0262)Orn+(0.1590)Ile+(0.0665)Phe;0.797,0.826,0.754,0.726,0.780,0.812,0.732,0.762,(6.6446)+(-0.1236)His+(0.0340)Thr+(-0.0369)Cit+(0.0053)Pro+(-0.2225)Met+(0.0233)Leu;0.797,0.824,0.717,0.680,0.722,0.819,0.728,0.737,(3.5086)+(0.0412)Ser+(-0.1381)His+(-0.0151)Arg+(0.0056)Pro+(-0.0182)Val+(0.0430)Leu;0.797,0.823,0.749,0.734,0.712,0.814,0.819,0.770,(6.2180)+(-0.0860)His+(-0.0125)A

rg+(0.0009)Pro+(-0.0183)Tyr+(-0.0365)Val+(0.1372)Ile;0.797,0.821,0.770,0.747,0.773,0.832,0.779,0.783,(4.1162)+(0.0094)Gln+(-0.1561)His+(0.0122)Thr+(-0.0420)Cit+(-0.0098)Lys+(0.0190)Leu;0.797,0.835,0.752,0.732,0.740,0.817,0.782,0.768,(4.0118)+(0.0042)Gly+(-0.1408)His+(-0.0048)Ala+(0.0241)Orn+(-0.0033)Lys+(0.0804)Phe;0.797,0.833,0.796,0.786,0.777,0.819,0.844,0.807,(5.3640)+(-0.0078)Ala+(-0.0052)Tyr+(0.0110)Orn+(-0.0063)Lys+(0.0677)Ile+(-0.1488)Trp;0.797,0.831,0.794,0.796,0.787,0.847,0.767,0.799,(4.4920)+(-0.0007)Gly+(0.0092)Gln+(-0.1377)His+(0.0218)Thr+(-0.1781)Met+(0.0033)Lys;0.797,0.828,0.725,0.695,0.744,0.826,0.691,0.739,(3.8436)+(0.0378)Ser+(-0.1372)His+(-0.0196)Arg+(0.0057)Pro+(0.0002)Val+(0.0249)Orn;0.797,0.826,0.781,0.787,0.727,0.863,0.821,0.800,(3.8630)+(0.0029)Gly+(-0.0110)Ala+(-0.0887)Cit+(-0.0266)Tyr+(0.1835)Ile+(-0.0819)Leu;0.797,0.825,0.761,0.739,0.737,0.835,0.814,0.781,(5.8714)+(-0.0176)Asn+(0.0044)Gly+(-0.1193)His+(-0.0058)Ala+(-0.0119)Tyr+(0.0625)Ile;0.797,0.832,0.821,0.838,0.826,0.824,0.765,0.813,(5.6561)+(-0.0986)Asn+(0.0061)Gln+(0.0176)Thr+(-0.0175)Arg+(0.0040)Pro+(-0.1470)Trp;0.797,0.831,0.817,0.837,0.812,0.817,0.772,0.809,(5.5975)+(-0.1060)Asn+(0.0052)Gln+(0.0143)Thr+(-0.0145)Tyr+(0.0143)Orn+(-0.1411)Trp;0.797,0.829,0.806,0.824,0.810,0.818,0.741,0.798,(7.2006)+(-0.0862)Asn+(0.0165)Thr+(-0.0102)Tyr+(-0.0049)Val+(0.0233)Orn+(-0.1305)Trp;0.797,0.828,0.825,0.841,0.810,0.828,0.809,0.822,(5.0278)+(-0.0009)Gly+(0.0059)Gln+(-0.0044)Ala+(0.0121)Pro+(-0.1403)Met+(-0.1316)Trp;0.797,0.833,0.779,0.778,0.776,0.794,0.780,0.782,(5.5225)+(0.0127)Thr+(0.0037)Pro+(-0.0269)Val+(-0.0074)Lys+
(0.0521)Leu+(-0.1562)Trp;0.797,0.831,0.717,0.692,0.713,0.764,0.759,0.732,(-5.0198)+(0.0608)Ser+(-0.0058)Gly+(0.0049)Pro+(-0.4528)Met+(0.0480)Ile+(0.0859)Phe;0.797,0.829,0.761,0.732,0.764,0.821,0.786,0.776,(2.0952)+(0.0086)Gln+(-0.1632)His+(-0.0628)Cit+(0.0297)Orn+(-0.0036)Leu

+(0.0715)Phe;0.797,0.829,0.716,0.691,0.722,0.815,0.700,0.732,(3.6946)+(0.0341)Ser+(-0.1385)His+(0.0066)Pro+(-0.0244)Tyr+(0.0021)Val+(0.0239)Orn;0.797,0.829,0.752,0.716,0.750,0.836,0.789,0.773,(5.4096)+(-0.1039)His+(-0.0694)Cit+(-0.0054)Pro+(0.0429)Orn+(0.1196)Ile+(-0.0535)Leu;0.797,0.828,0.827,0.818,0.840,0.828,0.821,0.827,(7.7216)+(-0.0314)Asn+(-0.0042)Ala+(-0.0688)Cit+(0.0157)Tyr+(0.0200)Leu+(-0.1513)Trp;0.797,0.821,0.756,0.755,0.689,0.839,0.840,0.781,(4.0459)+(-0.0085)Ala+(-0.0271)Arg+(-0.0252)Tyr+(-0.0551)Val+(0.0319)Orn+(0.1778)Ile;0.797,0.828,0.761,0.747,0.766,0.799,0.763,0.769,(5.6821)+(-0.0695)Asn+(-0.1319)His+(0.0276)Thr+(-0.0166)Arg+(-0.0108)Val+(0.1021)Phe;0.797,0.827,0.735,0.706,0.745,0.821,0.727,0.750,(4.2075)+(0.0457)Ser+(-0.0588)Asn+(-0.1274)His+(-0.0310)Cit+(-0.0095)Tyr+(0.0225)Leu;0.797,0.827,0.755,0.738,0.757,0.842,0.736,0.768,(4.6878)+(0.0434)Ser+(-0.0421)Asn+(-0.1238)His+(-0.0024)Ala+(-0.0097)Arg+(0.0066)Val;0.797,0.824,0.753,0.735,0.752,0.842,0.742,0.768,(4.5319)+(0.0422)Ser+(-0.0504)Asn+(-0.1243)His+(-0.0025)Ala+(-0.0018)Tyr+(0.0066)Val;0.797,0.834,0.799,0.797,0.797,0.807,0.807,0.802,(6.4657)+(0.0014)Gly+(0.0097)Pro+(-0.0279)Val+(-0.1607)Met+(0.0576)Leu+(-0.1284)Trp;0.797,0.833,0.713,0.706,0.749,0.765,0.619,0.710,(-3.4931)+(0.0486)Ser+(0.0164)Thr+(-0.0914)Cit+(0.0104)Pro+(-0.4761)Met+(0.1243)Phe;0.797,0.830,0.807,0.821,0.825,0.819,0.722,0.797,(7.4205)+(-0.0022)Gly+(0.0303)Thr+(-0.0130)Arg+(0.0006)Val+(-0.1632)Met+(-0.1414)Trp;0.797,0.820,0.775,0.757,0.761,0.835,0.810,0.791,(3.9210)+(-0.0001)Gly+(0.0082)Gln+(-0.1596)His+(0.0090)Thr+(-0.0046)Ala+(0.0173)Leu;0.797,0.830,0.721,0.690,0.737,0.819,0.701,0.737,(3.7780)+(0.0389)Ser+(-0.1429)His+(-0.0162)Arg+(-0.0193)Tyr+(0.0261)Orn+(0.0176)Leu;0.797,0.829,0.815,0.812,0.831,0.818,0.786,0.812,(7.9531)+(-0.0459)Asn+(-0.0695)Cit+(0.0063)Arg+(0.0086)Pro+(0.0014)Tyr+(-0.1417)Trp;0.797,0.830,0.773,0.784,0.774,0.806,0.721,0.771,(3.2163)+(0.0278

)Ser+(-0.0002)Gln+(-0.0035)Thr+(-0.0121)Tyr+(0.0159)Orn+(-0.1469)Trp;0.797,0.831,0.743,0.738,0.742,0.767,0.740,0.747,(-2.9992)+(0.0635)Ser+(-0.0860)Asn+(-0.0054)Gly+(0.0090)Pro+(-0.3494)Met+(0.1052)Phe;0.797,0.830,0.754,0.742,0.732,0.801,0.795,0.768,(4.6561)+(-0.1300)His+(-0.0049)Ala+(0.0068)Pro+(-0.0428)Tyr+(0.0267)Orn+(0.0891)Phe;0.797,0.831,0.787,0.764,0.785,0.813,0.831,0.798,(4.7306)+(0.0037)Asn+(-0.1113)His+(-0.0247)Val+(-0.2044)Met+(0.0436)Leu+(0.1158)Phe;0.797,0.822,0.766,0.761,0.762,0.821,0.750,0.774,(4.2442)+(0.0100)Gln+(-0.1590)His+(0.0165)Thr+(-0.0234)Arg+(-0.0230)Tyr+(0.0156)Leu;0.797,0.828,0.735,0.707,0.744,0.824,0.727,0.750,(4.1445)+(0.0460)Ser+(-0.0520)Asn+(-0.1329)His+(-0.0090)Arg+(-0.0088)Tyr+(0.0219)Leu;0.797,0.828,0.765,0.730,0.749,0.837,0.838,0.789,(5.8664)+(-0.0157)Asn+(-0.1230)His+(-0.0073)Ala+(0.0031)Pro+(0.0226)Orn+(0.0491)Ile;0.797,0.824,0.754,0.731,0.753,0.841,0.751,0.769,(4.3936)+(0.0456)Ser+(-0.0039)Gly+(-0.1318)His+(-0.0028)Ala+(-0.0124)Arg+(0.0069)Val;0.797,0.824,0.750,0.723,0.719,0.824,0.833,0.775,(5.8418)+(-0.0878)His+(-0.0346)Cit+(-0.0011)Pro+(-0.0350)Val+(-0.0031)Lys+(0.1346)Ile;0.797,0.822,0.778,0.761,0.753,0.843,0.830,0.797,(4.0651)+(0.0084)Gln+(-0.1455)His+(-0.0052)Ala+(0.0065)Pro+(-0.0153)Val+(0.0373)Leu;0.797,0.833,0.815,0.803,0.838,0.814,0.798,0.813,(7.2047)+(-0.0662)Cit+(0.0081)Pro+(0.0160)Tyr+(-0.1202)Met+(0.0152)Leu+(-0.1510)Trp;0.797,0.832,0.793,0.797,0.815,0.814,0.725,0.788,(7.1264)+(0.0152)Thr+(-0.0708)Cit+(-0.0071)Arg+(0.0078)Pro+(-0.0113)Tyr+(-0.1562)Trp;0.797,0.828,0.764,0.736,0.746,0.829,0.826,0.784,(6.2200)+(-0.0117)Asn+(-0.1208)His+(-0.0057)Ala+(-0.0228)Tyr+(0.0277)Orn+(0.0544)Ile;0.797,0.826,0.751,0.722,0.766,0.797,0.765,0.763,(5.5603)+(-0.0561)Asn+(-0.1358)His+(0.0246)Thr+(-0.0409)Cit+(-0.0076)Lys+(0.0874)Phe;0.797,0.824,0.759,0.761,0.701,0.829,0.827,0.779,(5.8963)+(-0.1450)Asn+(0.0211)Thr+(-0.0334)Tyr+(-0.0558)Val+(-0.0026)Lys+(0.1719)Ile;0.797,

0.832,0.811,0.803,0.819,0.847,0.787,0.814,(8.2210)+(0.0041)Gly+(-0.0819)His+(0.0003)Arg+(0.0331)Tyr+(-0.0662)Met+(-0.1012)Trp;0.797,0.832,0.776,0.742,0.769,0.838,0.833,0.796,(6.1267)+(-0.1140)His+(-0.0053)Ala+(-0.1316)Met+(0.0246)Orn+(0.0018)Lys+(0.0624)Ile;0.797,0.832,0.798,0.790,0.777,0.822,0.848,0.809,(5.3106)+(0.0007)Gly+(-0.0078)Ala+(-0.0020)Tyr+(-0.0051)Lys+(0.0709)Ile+(-0.1507)Trp;0.797,0.831,0.794,0.800,0.793,0.850,0.739,0.795,(4.5562)+(0.0107)Gln+(-0.1412)His+(0.0258)Thr+(-0.0246)Arg+(-0.1750)Met+(0.0078)Lys;0.797,0.831,0.838,0.853,0.829,0.844,0.813,0.835,(6.0374)+(-0.1001)Asn+(-0.0021)Gly+(0.0060)Gln+(0.0183)Thr+(-0.0037)Ala+(-0.1431)Trp;0.797,0.830,0.778,0.762,0.768,0.821,0.813,0.791,(5.1182)+(-0.0438)Asn+(-0.1199)His+(-0.0035)Ala+(-0.0085)Val+(0.0314)Orn+(0.0879)Phe;0.797,0.830,0.789,0.797,0.781,0.833,0.757,0.792,(3.3900)+(0.0261)Ser+(0.0001)Gln+(-0.0049)Ala+(0.0009)Val+(0.0166)Orn+(-0.1464)Trp;0.797,0.830,0.753,0.739,0.750,0.805,0.759,0.763,(4.3598)+(-0.0603)Asn+(0.0050)Gly+(-0.1271)His+(-0.0098)Val+(0.0279)Orn+(0.0929)Phe;0.797,0.829,0.780,0.803,0.716,0.820,0.825,0.791,(2.0642)+(-0.0090)Ala+(-0.0261)Arg+(-0.0589)Tyr+(0.1879)Ile+(-0.1046)Leu+(0.0959)Phe;0.797,0.827,0.823,0.840,0.808,0.829,0.804,0.820,(4.9467)+(0.0057)Gln+(-0.0045)Ala+(0.0120)Pro+(0.0003)Val+(-0.1418)Met+(-0.1316)Trp;0.797,0.833,0.765,0.772,0.765,0.800,0.717,0.764,(3.4276)+(0.0294)Ser+(0.0067)Pro+(-0.0132)Tyr+(0.0001)Val+(-0.0052)Lys+(-0.1449)Trp;0.797,0.827,0.758,0.744,0.733,0.834,0.793,0.776,(-1.1816)+(0.0481)Ser+(-0.0628)Asn+(0.0013)Gln+(-0.0070)Ala+(-0.2582)Met+(0.0748)Ile;0.797,0.825,0.743,0.747,0.683,0.795,0.824,0.762,(1.9321)+(-0.0004)Gly+(-0.0698)Cit+(-0.0687)Tyr+(-0.0506)Val+(0.1506)Ile+(0.0749)Phe;0.797,0.838,0.807,0.828,0.806,0.764,0.786,0.796,(4.0101)+(-0.0154)Arg+(-0.0280)Tyr+(-0.0067)Val+(0.0039)Lys+(0.1025)Phe+(-0.1525)Trp;0.797,0.839,0.742,0.738,0.723,0.847,0.716,0.756,(0.1931)+(0.0419)Ser+(0.0083)Thr+(-0

.0268)Arg+(-0.2885)Met+(0.1810)Ile+(-0.0808)Leu;0.797,0.833,0.811,0.800,0.815,0.830,0.816,0.815,(6.0360)+(0.0227)Tyr+(-0.0331)Val+(-0.1842)Met+(0.0293)Orn+(0.0641)Leu+(-0.1312)Trp;0.797,0.832,0.808,0.802,0.790,0.828,0.848,0.817,(6.0658)+(-0.0293)Asn+(-0.0070)Ala+(-0.0061)Arg+(-0.0004)Lys+(0.0668)Ile+(-0.1471)Trp;0.797,0.831,0.833,0.853,0.830,0.849,0.778,0.827,(5.9814)+(-0.0921)Asn+(0.0063)Gln+(0.0204)Thr+(-0.0033)Ala+(-0.0153)Arg+(-0.1416)Trp;0.797,0.824,0.765,0.750,0.758,0.843,0.765,0.779,(4.9547)+(0.0461)Ser+(-0.0580)Asn+(-0.0041)Gly+(-0.1143)His+(-0.0015)Ala+(0.0028)Lys;0.797,0.833,0.779,0.766,0.779,0.808,0.794,0.787,(4.4575)+(-0.1171)His+(-0.0197)Tyr+(-0.0068)Val+(-0.1479)Met+(0.0312)Orn+(0.1195)Phe;0.797,0.830,0.810,0.811,0.827,0.810,0.774,0.805,(7.2071)+(-0.0604)Cit+(0.0107)Pro+(0.0004)Val+(-0.1148)Met+(0.0082)Lys+(-0.1422)Trp;0.797,0.829,0.785,0.791,0.730,0.864,0.831,0.804,(4.2391)+(0.0048)Thr+(-0.0109)Ala+(-0.0852)Cit+(-0.0324)Tyr+(0.1804)Ile+(-0.0811)Leu;0.797,0.835,0.762,0.768,0.770,0.797,0.707,0.760,(3.3545)+(0.0326)Ser+(-0.0207)Arg+(0.0065)Pro+(-0.0127)Tyr+(0.0095)Leu+(-0.1537)Trp;0.797,0.834,0.763,0.762,0.765,0.788,0.744,0.765,(2.2760)+(0.0308)Ser+(-0.0078)Thr+(0.0039)Pro+(0.0087)Orn+(0.0069)Leu+(-0.1591)Trp;0.797,0.833,0.807,0.813,0.792,0.826,0.806,0.809,(3.7961)+(0.0364)Ser+(-0.0079)Gly+(0.0014)Gln+(-0.0030)Ala+(-0.0052)Tyr+(-0.1436)Trp;0.797,0.831,0.770,0.780,0.756,0.811,0.740,0.772,(-2.3160)+(0.0519)Ser+(-0.0973)Asn+(-0.0039)Ala+(-0.2746)Met+(0.0095)Orn+(0.1069)Phe;0.797,0.830,0.759,0.750,0.751,0.789,0.779,0.767,(5.0129)+(-0.0299)Asn+(-0.1275)His+(-0.0454)Tyr+(0.0309)Orn+(-0.0035)Leu+(0.0954)Phe;0.797,0.831,0.761,0.749,0.745,0.803,0.795,0.773,(4.7366)+(-0.1329)His+(-0.0033)Ala+(-0.0405)Tyr+(0.0299)Orn+(0.0002)Leu+(0.0919)Phe;0.797,0.832,0.778,0.759,0.761,0.832,0.828,0.795,(6.2459)+(-0.0874)His+(-0.0022)Arg+(0.0006)Pro+(-0.1494)Met+(0.1321)Ile+(-0.0506)Leu;0.797,0.825,0.760,0.761,0.7

48,0.793,0.763,0.766,(4.8203)+(-0.0452)Asn+(0.0052)Gly+(-0.1243)His+(-0.0318)Tyr+(-0.0050)Val+(0.1129)Phe;0.797,0.823,0.709,0.675,0.707,0.805,0.734,0.730,(3.3910)+(0.0382)Ser+(-0.1400)His+(0.0057)Pro+(-0.0164)Tyr+(-0.0167)Val+(0.0427)Leu;0.797,0.834,0.740,0.716,0.726,0.816,0.778,0.759,(3.7485)+(0.0033)Gly+(-0.1507)His+(0.0110)Thr+(-0.0053)Ala+(0.0179)Orn+(0.0779)Phe;0.797,0.833,0.833,0.839,0.817,0.839,0.844,0.835,(4.7802)+(0.0059)Gln+(-0.0019)Ala+(-0.0247)Val+(-0.1531)Met+(0.0570)Leu+(-0.1350)Trp;0.797,0.832,0.811,0.818,0.821,0.818,0.768,0.806,(5.3428)+(0.0006)Gly+(0.0051)Gln+(-0.0807)Cit+(0.0083)Pro+(-0.0091)Tyr+(-0.1575)Trp;0.797,0.827,0.800,0.791,0.787,0.851,0.812,0.810,(4.6131)+(-0.0598)Asn+(0.0099)Gln+(-0.1366)His+(-0.0028)Ala+(0.0250)Orn+(0.0010)Lys;0.797,0.824,0.761,0.735,0.746,0.845,0.802,0.782,(5.6723)+(0.0063)Gly+(-0.1086)His+(-0.0077)Ala+(-0.0571)Cit+(-0.0034)Lys+(0.0715)Ile;0.797,0.823,0.788,0.772,0.772,0.843,0.821,0.802,(3.9283)+(0.0006)Gly+(0.0096)Gln+(-0.1536)His+(-0.0039)Ala+(-0.0038)Lys+(0.0189)Leu;0.797,0.834,0.735,0.736,0.715,0.794,0.734,0.745,(-3.3171)+(0.0485)Ser+(-0.0012)Gln+(-0.0078)Ala+(0.0154)Pro+(-0.3785)Met+(0.1098)Phe;0.797,0.833,0.807,0.800,0.788,0.826,0.854,0.817,(5.9919)+(-0.0336)Asn+(-0.0071)Ala+(-0.0012)Tyr+(-0.0017)Lys+(0.0669)Ile+(-0.1466)Trp;0.797,0.832,0.826,0.838,0.828,0.819,0.796,0.820,(5.6024)+(-0.1083)Asn+(-0.0020)Gly+(0.0054)Gln+(0.0141)Thr+(0.0122)Orn+(-0.1475)Trp;0.797,0.830,0.796,0.808,0.787,0.837,0.756,0.797,(3.7207)+(0.0264)Ser+(0.0011)Gln+(0.0026)Thr+(-0.0037)Ala+(-0.0039)Lys+(-0.1420)Trp;0.797,0.830,0.811,0.818,0.822,0.814,0.770,0.806,(5.2878)+(0.0053)Gln+(-0.0819)Cit+(0.0077)Pro+(-0.0105)Tyr+(0.0023)Val+(-0.1609)Trp;0.797,0.836,0.764,0.766,0.773,0.800,0.712,0.763,(3.1871)+(0.0340)Ser+(-0.0192)Arg+(0.0055)Pro+(-0.0046)Lys+(0.0111)Leu+(-0.1555)Trp;0.797,0.835,0.763,0.760,0.770,0.798,0.733,0.765,(2.6548)+(0.0321)Ser+(-0.0018)Thr+(0.0124)Orn+(-0.0106)Lys

+(0.0141)Leu+(-0.1543)Trp;0.797,0.833,0.786,0.783,0.784,0.794,0.792,0.788,(5.3435)+(0.0038)Pro+(-0.0277)Val+(0.0224)Orn+(-0.0051)Lys+(0.0497)Leu+(-0.1484)Trp;0.797,0.831,0.795,0.791,0.803,0.822,0.770,0.796,(7.8698)+(0.0035)Gly+(-0.0935)His+(-0.0093)Arg+(0.0147)Tyr+(0.0117)Lys+(-0.1081)Trp;0.797,0.829,0.766,0.773,0.763,0.787,0.735,0.765,(-2.2610)+(0.0621)Ser+(-0.0827)Asn+(-0.0051)Gly+(-0.0119)Arg+(-0.2981)Met+(0.1089)Phe;0.797,0.827,0.813,0.814,0.828,0.810,0.783,0.809,(7.8173)+(-0.0509)Asn+(-0.0650)Cit+(0.0087)Pro+(-0.0006)Val+(0.0061)Lys+(-0.1447)Trp;0.797,0.832,0.722,0.697,0.718,0.770,0.760,0.736,(-4.7590)+(0.0609)Ser+(-0.0055)Gly+(-0.0007)Gln+(-0.4356)Met+(0.0539)Ile+(0.0846)Phe;0.797,0.827,0.745,0.729,0.756,0.837,0.699,0.755,(4.9118)+(0.0403)Ser+(-0.0559)Asn+(-0.1270)His+(0.0109)Thr+(-0.0141)Arg+(0.0036)Val;0.797,0.824,0.736,0.710,0.747,0.827,0.719,0.751,(4.2787)+(0.0440)Ser+(-0.0044)Gly+(-0.1330)His+(0.0054)Thr+(-0.0181)Arg+(0.0067)Pro;0.797,0.830,0.805,0.804,0.821,0.816,0.763,0.801,(7.1846)+(-0.0525)Asn+(0.0043)Gly+(-0.0796)Cit+(0.0092)Arg+(0.0177)Leu+(-0.1521)Trp;0.797,0.828,0.799,0.781,0.815,0.817,0.802,0.804,(8.6381)+(0.0113)Asn+(-0.0804)His+(-0.0347)Cit+(-0.0362)Met+(0.0269)Leu+(-0.1147)Trp;0.797,0.827,0.783,0.763,0.771,0.847,0.817,0.799,(4.0214)+(0.0087)Gln+(-0.1527)His+(-0.0043)Ala+(0.0211)Orn+(-0.0055)Lys+(0.0162)Leu;0.797,0.826,0.783,0.785,0.772,0.774,0.807,0.784,(4.1262)+(-0.0019)Gly+(0.0027)Gln+(-0.0265)Tyr+(0.0033)Orn+(0.0506)Ile+(-0.1646)Trp;0.797,0.835,0.787,0.781,0.793,0.799,0.783,0.789,(6.0291)+(-0.0670)Asn+(0.0183)Thr+(-0.0163)Arg+(-0.0013)Pro+(0.0503)Ile+(-0.1609)Trp;0.797,0.831,0.815,0.814,0.822,0.824,0.792,0.813,(8.8337)+(-0.0141)Asn+(-0.0717)His+(-0.0271)Cit+(-0.0414)Met+(0.0141)Lys+(-0.1047)Trp;0.797,0.830,0.797,0.784,0.804,0.803,0.814,0.801,(5.3846)+(0.0128)Tyr+(-0.1911)Met+(0.0079)Orn+(0.0004)Lys+(0.0621)Ile+(-0.1467)Trp;0.797,0.828

,0.800,0.781,0.804,0.828,0.821,0.809,(8.7825)+(-0.0765)His+(-0.0019)Ala+(-0.0332)Cit+(-0.0136)Val+(0.0490)Leu+(-0.1127)Trp;0.797,0.820,0.722,0.702,0.683,0.834,0.773,0.748,(1.4225)+(0.0316)Ser+(-0.0488)Cit+(-0.0189)Arg+(-0.0490)Val+(-0.0168)Lys+(0.1642)Ile;0.797,0.831,0.806,0.811,0.813,0.841,0.754,0.805,(8.8124)+(0.0040)Gly+(-0.0679)His+(-0.0001)Ala+(-0.0362)Cit+(-0.0050)Met+(-0.0975)Trp;0.797,0.829,0.813,0.822,0.804,0.828,0.797,0.813,(6.7477)+(-0.0565)Asn+(0.0004)Gly+(-0.0060)Ala+(0.0093)Pro+(0.0228)Orn+(-0.1294)Trp;0.797,0.833,0.781,0.773,0.782,0.800,0.789,0.786,(3.1471)+(0.0429)Ser+(-0.0085)Gly+(0.0008)Gln+(-0.0107)Lys+(0.0156)Leu+(-0.1555)Trp;0.797,0.832,0.776,0.786,0.778,0.814,0.716,0.774,(3.4156)+(0.0284)Ser+(-0.0011)Thr+(-0.0099)Tyr+(0.0179)Orn+(-0.0061)Lys+(-0.1427)Trp;0.797,0.830,0.778,0.784,0.771,0.796,0.765,0.779,(5.2879)+(0.0094)Thr+(-0.0194)Tyr+(-0.0270)Val+(0.0197)Orn+(0.0493)Leu+(-0.1527)Trp;0.797,0.825,0.737,0.706,0.743,0.781,0.772,0.751,(4.6528)+(-0.1546)His+(0.0184)Thr+(-0.0006)Pro+(-0.0093)Lys+(0.0031)Leu+(0.0766)Phe;0.797,0.829,0.786,0.766,0.782,0.813,0.827,0.797,(4.6751)+(-0.1155)His+(-0.0046)Ala+(0.0093)Pro+(-0.1839)Met+(0.0035)Leu+(0.1097)Phe;0.797,0.827,0.812,0.805,0.824,0.826,0.798,0.813,(9.1241)+(-0.0734)His+(-0.0018)Ala+(-0.0391)Cit+(0.0103)Val+(0.0001)Met+(-0.1105)Trp;0.797,0.838,0.794,0.809,0.794,0.758,0.781,0.785,(3.6323)+(-0.0343)Tyr+(0.0123)Orn+(-0.0042)Lys+(-0.0010)Leu+(0.0870)Phe+(-0.1549)Trp;0.797,0.832,0.816,0.828,0.832,0.828,0.739,0.807,(5.7113)+(0.0048)Gln+(0.0133)Thr+(-0.0708)Cit+(-0.0102)Arg+(-0.0053)Tyr+(-0.1596)Trp;0.797,0.829,0.793,0.785,0.794,0.801,0.803,0.796,(5.6142)+(-0.0108)Asn+(0.0021)Gly+(-0.0020)Arg+(-0.1577)Met+(0.0660)Ile+(-0.1415)Trp;0.797,0.827,0.753,0.744,0.750,0.845,0.721,0.765,(5.1607)+(0.0377)Ser+(-0.0667)Asn+(-0.1170)His+(0.0105)Thr+(-0.0016)Ala+(-0.0032)Tyr;0.797,0.823,0.775,0.755,0.758,0.836,0.816,0.791,(3.8256)+(0.0081)Gln+(-0.1526)His+(-

0.0058)Ala+(0.0053)Pro+(0.0177)Orn+(0.0121)Leu;0.797,0.823,0.774,0.75
6,0.756,0.837,0.813,0.790,(3.8787)+(0.0081)Gln+(-0.1564)His+(0.0077)T
hr+(-0.0057)Ala+(0.0050)Pro+(0.0151)Leu;0.797,0.833,0.807,0.810,0.812
,0.845,0.760,0.807,(8.5992)+(0.0039)Gly+(-0.0688)His+(-0.0004)Ala+(-0
.0407)Cit+(0.0060)Arg+(-0.0995)Trp;0.797,0.831,0.808,0.802,0.790,0.82
7,0.848,0.817,(6.0574)+(-0.0299)Asn+(-0.0070)Ala+(-0.0063)Arg+(-0.000
0)Tyr+(0.0665)Ile+(-0.1474)Trp;0.797,0.830,0.796,0.795,0.774,0.814,0.
831,0.803,(5.9104)+(0.0000)Gly+(-0.0071)Ala+(0.0107)Pro+(-0.0247)Val+
(0.0515)Leu+(-0.1436)Trp;0.797,0.830,0.768,0.744,0.773,0.822,0.782,0.
780,(2.0090)+(0.0106)Gln+(-0.1656)His+(-0.0492)Cit+(-0.0175)Arg+(0.02
60)Orn+(0.0719)Phe;0.797,0.827,0.745,0.729,0.729,0.809,0.774,0.760,(3
.9659)+(0.0032)Gly+(-0.1473)His+(0.0140)Thr+(-0.0044)Ala+(-0.0040)Val
+(0.0903)Phe;0.797,0.825,0.745,0.727,0.735,0.852,0.738,0.763,(4.2643)
+(0.0392)Ser+(-0.1166)His+(-0.0062)Ala+(-0.0381)Cit+(0.0127)Pro+(-0.0
008)Lys;0.797,0.823,0.773,0.752,0.761,0.835,0.808,0.789,(3.8976)+(0.0
076)Gln+(-0.1588)His+(0.0069)Thr+(-0.0048)Ala+(0.0163)Orn+(0.0149)Leu
;0.797,0.830,0.779,0.777,0.758,0.803,0.811,0.787,(0.9095)+(0.0025)Asn
+(-0.0161)Arg+(-0.3008)Met+(0.1785)Ile+(-0.0988)Leu+(0.1072)Phe;0.797
,0.829,0.810,0.796,0.824,0.828,0.807,0.814,(8.4192)+(0.0105)Asn+(-0.0
868)His+(0.0231)Tyr+(0.0078)Val+(-0.0647)Met+(-0.1095)Trp;0.797,0.829
,0.787,0.753,0.777,0.846,0.853,0.807,(6.4434)+(-0.0973)His+(-0.0063)A
la+(-0.0509)Cit+(0.0136)Arg+(-0.1265)Met+(0.0746)Ile;0.797,0.831,0.77
4,0.747,0.784,0.802,0.802,0.784,(4.0604)+(-0.1267)His+(0.0049)Pro+(-0
.2072)Met+(0.0197)Orn+(0.0042)Lys+(0.1037)Phe;0.797,0.826,0.760,0.728
,0.746,0.842,0.815,0.783,(6.0263)+(-0.1209)His+(0.0170)Thr+(-0.0080)A
la+(-0.0463)Cit+(-0.0046)Arg+(0.0622)Ile;0.797,0.821,0.713,0.676,0.71
8,0.819,0.724,0.734,(3.5108)+(0.0369)Ser+(-0.1432)His+(0.0066)Thr+(-0
.0296)Cit+(-0.0169)Val+(0.0444)Leu;0.797,0.831,0.831,0.850,0.819,0.84

4,0.793,0.826,(5.8908)+(-0.1009)Asn+(0.0058)Gln+(0.0175)Thr+(-0.0034)Ala+(-0.0043)Tyr+(-0.1407)Trp;0.797,0.829,0.771,0.773,0.762,0.775,0.782,0.773,(3.9761)+(0.0019)Gln+(0.0057)Thr+(-0.0012)Pro+(-0.0271)Tyr+(0.0529)Ile+(-0.1677)Trp;0.797,0.828,0.786,0.777,0.780,0.839,0.787,0.796,(4.7041)+(-0.0796)Asn+(0.0094)Gln+(-0.1408)His+(0.0111)Thr+(-0.0016)Val+(0.0206)Orn;0.797,0.825,0.772,0.754,0.767,0.835,0.789,0.786,(4.0367)+(0.0095)Gln+(-0.1501)His+(-0.0205)Arg+(-0.0196)Val+(0.0272)Orn+(0.0387)Leu;0.797,0.825,0.772,0.743,0.760,0.830,0.836,0.792,(5.8841)+(0.0355)Asn+(-0.1082)His+(-0.0064)Ala+(0.0065)Pro+(-0.1683)Met+(0.0683)Ile;0.797,0.834,0.805,0.805,0.794,0.823,0.811,0.808,(3.5344)+(0.0367)Ser+(-0.0076)Gly+(0.0012)Gln+(-0.0039)Ala+(0.0027)Val+(-0.1489)Trp;0.797,0.833,0.777,0.773,0.778,0.784,0.782,0.779,(3.4587)+(0.0392)Ser+(-0.0085)Gly+(0.0015)Thr+(-0.0189)Tyr+(0.0118)Leu+(-0.1560)Trp;0.797,0.831,0.776,0.787,0.776,0.808,0.723,0.773,(3.2323)+(0.0273)Ser+(-0.0035)Thr+(-0.0118)Tyr+(-0.0009)Val+(0.0164)Orn+(-0.1460)Trp;0.797,0.830,0.781,0.780,0.771,0.822,0.777,0.787,(2.9023)+(0.0290)Ser+(0.0002)Gln+(-0.0003)Thr+(-0.0056)Ala+(0.0171)Leu+(-0.1553)Trp;0.797,0.828,0.825,0.844,0.812,0.831,0.797,0.821,(5.0865)+(0.0062)Gln+(-0.0043)Ala+(-0.0083)Arg+(0.0122)Pro+(-0.1316)Met+(-0.1306)Trp;0.797,0.830,0.754,0.722,0.760,0.817,0.781,0.770,(2.1041)+(0.0080)Gln+(-0.1673)His+(0.0050)Thr+(-0.0615)Cit+(0.0264)Orn+(0.0674)Phe;0.797,0.829,0.779,0.765,0.779,0.788,0.807,0.785,(4.0775)+(-0.1188)His+(0.0082)Pro+(-0.0096)Val+(-0.2272)Met+(0.0110)Lys+(0.1254)Phe;0.797,0.824,0.744,0.728,0.734,0.850,0.730,0.761,(4.3347)+(0.0388)Ser+(-0.1147)His+(-0.0059)Ala+(-0.0376)Cit+(0.0133)Pro+(-0.0079)Tyr;0.797,0.834,0.744,0.737,0.714,0.841,0.758,0.762,(-0.6810)+(0.0396)Ser+(0.0006)Gln+(-0.3119)Met+(-0.0017)Orn+(0.1708)Ile+(-0.0750)Leu;0.797,0.827,0.802,0.803,0.828,0.822,0.729,0.796,(7.1468)+(0.0163)Thr+(-0.0761)Cit+(-0.0051)Tyr+(0.0045)Val+(-0.004

0)Lys+(-0.1597)Trp;0.797,0.826,0.756,0.720,0.758,0.830,0.795,0.776,(3.1233)+(0.0084)Gln+(-0.1536)His+(-0.0618)Cit+(-0.0040)Pro+(0.0267)Orn+(0.0453)Ile;0.797,0.826,0.714,0.667,0.742,0.824,0.703,0.734,(3.2554)+(0.0369)Ser+(-0.1430)His+(-0.0011)Thr+(-0.0592)Cit+(0.0355)Orn+(0.0139)Leu;0.797,0.835,0.767,0.772,0.777,0.799,0.714,0.765,(3.0160)+(0.0316)Ser+(0.0007)Gln+(-0.0228)Arg+(0.0054)Pro+(0.0084)Leu+(-0.1591)Trp;0.797,0.834,0.781,0.760,0.768,0.839,0.822,0.797,(6.4790)+(-0.0782)His+(-0.0373)Cit+(-0.0036)Tyr+(-0.1370)Met+(0.1373)Ile+(-0.0529)Leu;0.797,0.826,0.798,0.802,0.824,0.814,0.726,0.791,(6.8536)+(0.0004)Gly+(0.0144)Thr+(-0.0756)Cit+(-0.0061)Tyr+(0.0036)Val+(-0.1610)Trp;0.797,0.835,0.781,0.781,0.781,0.797,0.769,0.782,(6.2736)+(-0.0635)Asn+(0.0202)Thr+(-0.0156)Arg+(-0.0210)Tyr+(0.0523)Ile+(-0.1543)Trp;0.797,0.829,0.806,0.818,0.799,0.822,0.779,0.804,(6.4864)+(-0.0048)Ala+(0.0118)Pro+(-0.0023)Val+(-0.1181)Met+(0.0253)Orn+(-0.1230)Trp;0.797,0.827,0.738,0.694,0.751,0.791,0.787,0.756,(4.8199)+(-0.0578)Asn+(-0.1393)His+(0.0198)Thr+(-0.0410)Cit+(0.0297)Ile+(0.0606)Phe;0.797,0.820,0.719,0.677,0.733,0.813,0.732,0.739,(3.4324)+(0.0425)Ser+(-0.0029)Gly+(-0.1472)His+(0.0040)Thr+(-0.0301)Cit+(0.0192)Leu;0.797,0.833,0.760,0.757,0.764,0.786,0.741,0.762,(2.5364)+(0.0317)Ser+(-0.0006)Gln+(-0.0059)Thr+(0.0044)Pro+(0.0085)Leu+(-0.1593)Trp;0.797,0.832,0.790,0.800,0.781,0.834,0.752,0.792,(3.5136)+(0.0258)Ser+(0.0002)Gln+(-0.0046)Ala+(-0.0043)Tyr+(0.0180)Orn+(-0.1439)Trp;0.797,0.828,0.799,0.793,0.792,0.850,0.793,0.807,(4.3518)+(-0.0361)Asn+(0.0005)Gly+(0.0103)Gln+(-0.1340)His+(-0.0847)Met+(0.0253)Orn;0.797,0.832,0.778,0.758,0.765,0.832,0.822,0.794,(6.0150)+(-0.0919)His+(-0.0086)Arg+(-0.1680)Met+(0.0113)Lys+(0.1380)Ile+(-0.0577)Leu;0.797,0.831,0.790,0.773,0.788,0.840,0.803,0.801,(3.6131)+(0.0105)Gln+(-0.1489)His+(0.0019)Tyr+(-0.1451)Met+(0.0180)Orn+(0.0181)Leu;0.797,0.831,0.768,0.768,0.750,0.804,0.782,0.776,(0.2579)+(0.00

42)Gly+(-0.0186)Arg+(-0.3113)Met+(0.1811)Ile+(-0.0994)Leu+(0.1120)Phe;0.797,0.831,0.738,0.712,0.762,0.838,0.682,0.748,(4.5745)+(0.0345)Ser+(-0.1219)His+(-0.0587)Cit+(-0.0095)Arg+(-0.0176)Tyr+(0.0483)Orn;0.797,0.830,0.805,0.810,0.802,0.831,0.779,0.805,(4.5062)+(0.0411)Ser+(-0.0075)Gly+(-0.0023)Ala+(-0.0151)Arg+(0.0017)Tyr+(-0.1404)Trp;0.797,0.830,0.789,0.766,0.800,0.853,0.785,0.801,(3.7976)+(0.0107)Gln+(-0.1379)His+(-0.0610)Cit+(-0.1396)Met+(0.0349)Orn+(0.0165)Leu;0.797,0.827,0.801,0.800,0.797,0.850,0.774,0.805,(5.0559)+(-0.0725)Asn+(0.0118)Gln+(-0.1365)His+(0.0178)Thr+(-0.0289)Cit+(-0.0161)Arg;0.797,0.824,0.748,0.731,0.741,0.850,0.730,0.763,(4.4025)+(0.0407)Ser+(-0.1161)His+(-0.0059)Ala+(-0.0291)Cit+(-0.0104)Arg+(0.0129)Pro;0.797,0.830,0.805,0.798,0.813,0.819,0.798,0.807,(8.5136)+(0.0065)Asn+(-0.0865)His+(0.0031)Arg+(0.0087)Val+(-0.0324)Met+(-0.1043)Trp;0.797,0.826,0.766,0.756,0.750,0.820,0.786,0.778,(4.5057)+(-0

.0454)Asn+(0.0060)Gly+(-0.1333)His+(-0.0042)Ala+(0.0021)Lys+(0.0921)Phe;0.797,0.825,0.795,0.793,0.789,0.849,0.778,0.802,(4.9147)+(-0.0824)Asn+(0.0012)Gly+(0.0107)Gln+(-0.1328)His+(0.0147)Thr+(-0.0413)Cit;0.797,0.824,0.785,0.774,0.772,0.842,0.799,0.797,(4.3504)+(-0.0004)Gly+(0.0083)Gln+(-0.1446)His+(-0.0032)Ala+(0.0257)Orn+(-0.0022)Lys;0.797,0.822,0.757,0.758,0.684,0.831,0.853,0.782,(4.3267)+(-0.0100)Ala+(-0.0218)Arg+(0.0083)Pro+(-0.0232)Tyr+(-0.0528)Val+(0.1743)Ile;0.797,0.821,0.718,0.675,0.731,0.814,0.736,0.739,(3.2666)+(0.0440)Ser+(-0.0029)Gly+(-0.1448)His+(-0.0289)Cit+(0.0036)Pro+(0.0171)Leu;0.797,0.833,0.766,0.770,0.771,0.799,0.722,0.766,(3.2318)+(0.0298)Ser+(-0.0001)Gln+(0.0057)Pro+(-0.0003)Val+(-0.0063)Lys+(-0.1484)Trp;0.797,0.831,0.792,0.795,0.789,0.811,0.773,0.792,(4.3500)+(0.0388)Ser+(-0.0089)Gly+(0.0051)Thr+(-0.0107)Tyr+(-0.0056)Lys+(-0.1438)Trp;0.797,0.825,0.800,0.804,0.781,0.850,0.795,0.807,(5.1365)+(-0.0748)Asn+(0.0100)Gln+(-0.1337)His+(0.

0156)Thr+(-0.0019)Ala+(-0.0100)Tyr;0.797,0.829,0.767,0.769,0.761,0.791,0.754,0.769,(-2.1591)+(0.0621)Ser+(-0.0843)Asn+(-0.0055)Gly+(-0.2889)Met+(-0.0069)Lys+(0.1103)Phe;0.797,0.829,0.756,0.748,0.761,0.847,0.703,0.765,(5.4062)+(0.0385)Ser+(-0.0576)Asn+(-0.1176)His+(0.0131)Thr+(-0.0015)Ala+(-0.0137)Arg;0.797,0.828,0.730,0.719,0.721,0.776,0.745,0.740,(3.9682)+(0.0032)Gly+(-0.1415)His+(0.0030)Pro+(-0.0467)Tyr+(0.0248)Orn+(0.0915)Phe;0.797,0.822,0.774,0.771,0.719,0.855,0.840,0.796,(4.3777)+(-0.1436)Asn+(0.0045)Gln+(-0.0222)Arg+(-0.0598)Val+(0.0336)Orn+(0.1667)Ile;0.797,0.833,0.808,0.804,0.806,0.809,0.824,0.811,(7.2280)+(-0.0307)Asn+(0.0098)Pro+(-0.0286)Val+(-0.1287)Met+(0.0576)Leu+(-0.1241)Trp;0.797,0.832,0.820,0.809,0.835,0.833,0.807,0.821,(8.4867)+(-0.0746)His+(-0.0286)Cit+(0.0275)Tyr+(-0.0898)Met+(0.0132)Lys+(-0.1125)Trp;0.797,0.830,0.758,0.730,0.772,0.826,0.756,0.771,(6.3999)+(-0.1350)His+(0.0293)Thr+(-0.0028)Ala+(-0.1864)Met+(0.0220)Orn+(0.0235)Leu;0.797,0.828,0.774,0.748,0.785,0.802,0.801,0.784,(4.2365)+(-0.1231)His+(-0.0006)Arg+(0.0049)Pro+(-0.1954)Met+(0.0219)Orn+(0.1035)Phe;0.797,0.836,0.812,0.829,0.812,0.764,0.801,0.802,(4.7995)+(-0.0563)Asn+(-0.0095)Arg+(-0.0263)Tyr+(0.0045)Lys+(0.0918)Phe+(-0.1502)Trp;0.797,0.833,0.741,0.718,0.768,0.821,0.692,0.750,(0.0718)+(0.0492)Ser+(-0.0677)Asn+(-0.0909)Cit+(-0.2698)Met+(0.0259)Orn+(0.0571)Ile;0.797,0.831,0.756,0.734,0.765,0.847,0.734,0.770,(3.8060)+(0.0445)Ser+(-0.1270)His+(-0.0018)Ala+(0.0161)Tyr+(0.0090)Val+(-0.1417)Met;0.797,0.829,0.787,0.773,0.782,0.836,0.798,0.797,(3.4230)+(0.0017)Gly+(0.0109)Gln+(-0.1460)His+(0.0060)Pro+(-0.1636)Met+(0.0190)Leu;0.797,0.830,0.799,0.815,0.797,0.840,0.728,0.795,(3.9676)+(0.0260)Ser+(0.0019)Gln+(0.0067)Thr+(-0.0035)Ala+(-0.0204)Arg+(-0.1449)Trp;0.797,0.830,0.810,0.821,0.813,0.811,0.772,0.804,(6.8782)+(-0.0702)Asn+(-0.0000)Gly+(0.0060)Pro+(-0.0063)Val+(0.0263)Orn+(-0.1257)Trp;0.797,0.829,0.794,0.796,0.817,0.799,0.739,0.

788,(5.8403)+(0.0253)Thr+(0.0135)Tyr+(-0.2204)Met+(0.0004)Lys+(0.0162)Leu+(-0.1543)Trp;0.797,0.827,0.782,0.768,0.778,0.834,0.788,0.792,(4.4605)+(-0.0786)Asn+(0.0095)Gln+(-0.1446)His+(0.0103)Thr+(0.0025)Pro+(0.0174)Orn;0.797,0.833,0.775,0.776,0.765,0.785,0.783,0.777,(4.3110)+(0.0025)Gln+(0.0094)Thr+(-0.0251)Tyr+(-0.0108)Lys+(0.0576)Ile+(-0.1612)Trp;0.797,0.831,0.789,0.791,0.786,0.803,0.778,0.789,(3.9424)+(0.0381)Ser+(-0.0086)Gly+(0.0022)Thr+(-0.0144)Tyr+(0.0011)Val+(-0.1488)Trp;0.797,0.831,0.701,0.679,0.710,0.766,0.693,0.712,(-5.4323)+(0.0505)Ser+(0.0090)Thr+(0.0041)Pro+(-0.4923)Met+(0.0492)Ile+(0.0910)Phe;0.797,0.827,0.741,0.720,0.726,0.816,0.777,0.760,(3.9046)+(0.0036)Gly+(-0.1520)His+(0.0135)Thr+(-0.0053)Ala+(0.0043)Leu+(0.0794)Phe;0.797,0.827,0.727,0.701,0.733,0.781,0.747,0.740,(4.0581)+(0.0035)Gly+(-0.1560)His+(0.0156)Thr+(-0.0001)Pro+(-0.0083)Lys+(0.0833)Phe;0.797,0.826,0.726,0.697,0.721,0.795,0.761,0.744,(5.5751)+(-0.1411)His+(0.0146)Thr+(-0.0015)Pro+(-0.0399)Tyr+(0.0227)Orn+(0.0496)Ile;0.797,0.826,0.725,0.696,0.732,0.783,0.747,0.740,(4.0584)+(0.0036)Gly+(-0.1573)His+(0.0158)Thr+(-0.0091)Lys+(0.0035)Leu+(0.0799)Phe;0.797,0.826,0.761,0.748,0.744,0.819,0.791,0.776,(4.4960)+(-0.0448)Asn+(0.0060)Gly+(-0.1297)His+(-0.0060)Ala+(0.0068)Pro+(0.0883)Phe;0.797,0.839,0.807,0.815,0.823,0.765,0.785,0.797,(3.7961)+(0.0008)Gly+(-0.0172)Arg+(-0.0002)Lys+(-0.0012)Leu+(0.0813)Phe+(-0.1676)Trp;0.797,0.830,0.748,0.727,0.759,0.808,0.736,0.757,(-0.1073)+(0.0549)Ser+(-0.0541)Asn+(-0.0029)Gly+(-0.0671)Cit+(-0.2800)Met+(0.0656)Ile;0.797,0.827,0.764,0.723,0.759,0.847,0.821,0.788,(5.8961)+(-0.1126)His+(-0.0088)Ala+(-0.0784)Cit+(0.0033)Arg+(0.0444)Orn+(0.0551)Ile;0.797,0.825,0.741,0.719,0.750,0.831,0.715,0.754,(4.5517)+(0.0438)Ser+(-0.0668)Asn+(-0.1146)His+(-0.0313)Cit+(0.0081)Pro+(0.0009)Lys;0.797,0.821,0.712,0.672,0.718,0.813,0.732,0.734,(3.3210)+(0.0392)Ser+(-0.1393)His+(-0.0275)Cit+(0.0044)Pro+(-0.0165)Val+(0.0415)Le

u;0.797,0.836,0.764,0.755,0.772,0.853,0.710,0.772,(5.3059)+(0.0417)Se
r+(-0.0047)Gly+(-0.1147)His+(0.0216)Thr+(-0.0138)Arg+(-0.1445)Met;0.7
97,0.830,0.796,0.773,0.814,0.815,0.806,0.802,(8.3199)+(-0.0865)His+(-
0.0368)Cit+(0.0110)Tyr+(0.0041)Lys+(0.0226)Leu+(-0.1240)Trp;0.797,0.8
33,0.831,0.837,0.818,0.832,0.839,0.832,(4.7502)+(-0.0002)Gly+(0.0059)
Gln+(-0.0252)Val+(-0.1666)Met+(0.0561)Leu+(-0.1357)Trp;0.797,0.830,0.
830,0.841,0.812,0.837,0.834,0.831,(5.2236)+(-0.0757)Asn+(0.0060)Gln+(
-0.0061)Ala+(0.0086)Pro+(0.0093)Leu+(-0.1415)Trp;0.797,0.837,0.745,0.
747,0.725,0.803,0.742,0.754,(-3.1197)+(0.0479)Ser+(-0.0073)Ala+(0.015
2)Pro+(-0.3563)Met+(-0.0092)Lys+(0.1135)Phe;0.797,0.834,0.769,0.780,0
.774,0.809,0.701,0.766,(3.8073)+(0.0319)Ser+(-0.0205)Arg+(0.0082)Pro+
(-0.0097)Tyr+(-0.0010)Val+(-0.1449)Trp;0.797,0.831,0.753,0.735,0.756,
0.806,0.755,0.763,(4.7924)+(-0.1201)His+(-0.0653)Cit+(-0.0462)Tyr+(-0
.0068)Val+(0.0508)Orn+(0.1024)Phe;0.797,0.823,0.746,0.725,0.748,0.840
,0.727,0.760,(4.2546)+(0.0405)Ser+(-0.1340)His+(-0.0029)Ala+(-0.0132)
Arg+(0.0075)Val+(0.0001)Lys;0.797,0.820,0.757,0.732,0.748,0.821,0.795
,0.774,(3.8372)+(0.0072)Gln+(-0.1526)His+(0.0017)Pro+(-0.0193)Val+(0.
0220)Orn+(0.0376)Leu;0.797,0.837,0.727,0.699,0.757,0.822,0.669,0.737,
(-0.0271)+(0.0441)Ser+(0.0159)Thr+(-0.0818)Cit+(-0.3326)Met+(-0.0145)
Lys+(0.0788)Ile;0.797,0.828,0.800,0.790,0.821,0.801,0.783,0.799,(6.84
13)+(-0.0786)Cit+(0.0034)Arg+(0.0065)Pro+(-0.0029)Lys+(0.0143)Leu+(-0
.1612)Trp;0.797,0.820,0.769,0.756,0.768,0.827,0.765,0.779,(3.8452)+(0
.0003)Gly+(0.0102)Gln+(-0.1650)His+(0.0128)Thr+(-0.0235)Arg+(0.0126)L
eu;0.797,0.831,0.800,0.806,0.806,0.816,0.764,0.798,(4.0000)+(0.0375)S
er+(-0.0086)Gly+(0.0019)Gln+(0.0057)Thr+(-0.0222)Arg+(-0.1531)Trp;0.7
97,0.830,0.793,0.779,0.789,0.843,0.807,0.804,(3.4065)+(0.0018)Gly+(0.
0111)Gln+(-0.1502)His+(0.0089)Tyr+(-0.1565)Met+(0.0216)Leu;0.797,0.82
9,0.803,0.791,0.796,0.844,0.820,0.813,(3.7062)+(-0.0215)Asn+(0.0120)G

ln+(-0.1465)His+(0.0054)Tyr+(-0.1314)Met+(0.0200)Leu;0.797,0.829,0.804,0.789,0.794,0.853,0.829,0.816,(3.6437)+(0.0114)Gln+(-0.1477)His+(-0.0023)Ala+(0.0100)Tyr+(-0.1419)Met+(0.0225)Leu;0.797,0.828,0.783,0.781,0.772,0.833,0.774,0.790,(4.9416)+(-0.0755)Asn+(0.0091)Gln+(-0.1370)His+(0.0133)Thr+(-0.0197)Tyr+(0.0230)Orn;0.797,0.826,0.701,0.679,0.646,0.802,0.802,0.732,(-1.1145)+(0.0303)Ser+(-0.0444)Val+(-0.0256)Lys+(0.1777)Ile+(-0.0310)Leu+(0.0487)Phe;0.797,0.825,0.799,0.795,0.792,0.850,0.788,0.806,(5.0057)+(-0.0806)Asn+(0.0109)Gln+(-0.1330)His+(0.0151)Thr+(-0.0399)Cit+(-0.0007)Lys;0.797,0.834,0.822,0.839,0.830,0.825,0.756,0.812,(5.5862)+(-0.0972)Asn+(0.0058)Gln+(0.0166)Thr+(-0.0188)Arg+(0.0155)Orn+(-0.1457)Trp;0.797,0.831,0.829,0.850,0.833,0.838,0.760,0.820,(5.9907)+(-0.0999)Asn+(0.0064)Gln+(0.0197)Thr+(-0.0165)Arg+(-0.0031)Val+(-0.1404)Trp;0.797,0.831,0.818,0.831,0.818,0.812,0.789,0.812,(5.2762)+(-0.1108)Asn+(0.0053)Gln+(0.0139)Thr+(0.0028)Pro+(0.0049)Leu+(-0.1510)Trp;0.797,0.831,0.804,0.793,0.815,0.819,0.801,0.807,(8.4598)+(-0.0025)Asn+(-0.0897)His+(0.0002)Arg+(0.0128)Tyr+(0.0070)Val+(-0.1096)Trp;0.797,0.826,0.796,0.797,0.790,0.845,0.773,0.801,(4.7837)+(-0.0706)Asn+(0.0117)Gln+(-0.1452)His+(0.0167)Thr+(-0.0224)Arg+(0.0037)Lys;0.797,0.830,0.829,0.842,0.817,0.831,0.816,0.826,(4.8298)+(0.0057)Gln+(-0.0047)Ala+(0.0114)Pro+(0.0163)Tyr+(-0.1630)Met+(-0.1352)Trp;0.797,0.830,0.779,0.778,0.771,0.824,0.769,0.785,(2.9296)+(0.0282)Ser+(-0.0003)Gln+(-0.0060)Ala+(0.0124)Orn+(0.0148)Leu+(-0.1550)Trp;0.797,0.830,0.837,0.853,0.829,0.835,0.811,0.832,(5.5654)+(-0.0910)Asn+(-0.0012)Gly+(0.0059)Gln+(-0.0048)Val+(0.0230)Orn+(-0.1318)Trp;0.797,0.824,0.795,0.787,0.788,0.840,0.799,0.803,(3.9776)+(-0.0525)Asn+(0.0016)Gly+(0.0124)Gln+(-0.1498)His+(-0.0147)Arg+(0.0136)Leu;0.797,0.831,0.778,0.793,0.759,0.809,0.753,0.779,(-2.8194)+(0.0507)Ser+(-0.1025)Asn+(0.0022)Gln+(-0.0035)Ala+(-0.2799)Met+(0.1092)Phe;0.797,0.830,0.781,0.780,0.7

71,0.824,0.774,0.787,(2.8104)+(0.0291)Ser+(-0.0027)Thr+(-0.0059)Ala+(0.0133)Orn+(0.0148)Leu+(-0.1536)Trp;0.796,0.824,0.763,0.741,0.736,0.818,0.837,0.783,(4.9070)+(-0.1288)His+(-0.0058)Ala+(0.0073)Pro+(-0.0194)Val+(0.0311)Leu+(0.0757)Phe;0.796,0.832,0.738,0.719,0.706,0.826,0.790,0.760,(-1.5733)+(0.0461)Ser+(-0.0098)Ala+(0.0104)Pro+(-0.3225)Met+(-0.0043)Orn+(0.0738)Ile;0.796,0.830,0.748,0.715,0.741,0.815,0.803,0.769,(4.5774)+(-0.1354)His+(-0.0236)Val+(0.0315)Orn+(-0.0054)Lys+(0.0348)Leu+(0.0693)Phe;0.796,0.823,0.778,0.757,0.765,0.841,0.813,0.794,(3.8223)+(0.0004)Gly+(0.0082)Gln+(-0.1555)His+(-0.0046)Ala+(0.0191)Orn+(0.0144)Leu;0.796,0.821,0.760,0.736,0.750,0.825,0.798,0.777,(3.8832)+(-0.0002)Gly+(0.0073)Gln+(-0.1528)His+(-0.0190)Val+(0.0227)Orn+(0.0381)Leu;0.796,0.840,0.808,0.816,0.824,0.770,0.778,0.797,(3.9562)+(-0.0194)Arg+(0.0146)Orn+(-0.0012)Lys+(-0.0033)Leu+(0.0751)Phe+(-0.1640)Trp;0.796,0.830,0.827,0.827,0.851,0.846,0.765,0.822,(7.7242)+(-0.0331)Asn+(0.0042)Gly+(-0.0647)Cit+(0.0299)Tyr+(-0.0719)Met+(-0.1368)Trp;0.796,0.830,0.793,0.784,0.787,0.842,0.795,0.802,(4.1390)+(-0.0295)Asn+(0.0105)Gln+(-0.1340)His+(0.0066)Pro+(-0.1154)Met+(0.0217)Orn;0.796,0.828,0.766,0.789,0.688,0.814,0.837,0.782,(0.8692)+(0.0003)Gln+(-0.0100)Ala+(-0.0635)Tyr+(0.1765)Ile+(-0.0986)Leu+(0.0850)Phe;0.796,0.827,0.718,0.674,0.746,0.827,0.696,0.736,(3.4955)+(0.0382)Ser+(-0.1406)His+(-0.0505)Cit+(-0.0104)Arg+(0.0350)Orn+(0.0137)Leu;0.796,0.821,0.741,0.720,0.710,0.816,0.807,0.763,(5.5692)+(0.0027)Gly+(-0.0936)His+(-0.0149)Arg+(-0.0004)Pro+(-0.0364)Val
+(0.1353)Ile;0.796,0.821,0.740,0.719,0.709,0.815,0.805,0.762,(5.5132)+(0.0027)Gly+(-0.0947)His+(-0.0160)Arg+(-0.0366)Val+(0.0016)Lys+(0.1342)Ile;0.796,0.834,0.727,0.737,0.714,0.771,0.695,0.729,(-0.5139)+(0.0491)Ser+(-0.1595)Asn+(-0.0806)Cit+(-0.0689)Tyr+(0.0326)Ile+(0.0858)Phe;0.796,0.830,0.742,0.713,0.760,0.838,0.713,0.756,(4.5258)+(0.0376)Se

r+(-0.0035)Gly+(-0.1219)His+(-0.0617)Cit+(-0.0222)Tyr+(0.0480)Orn;0.796,0.830,0.802,0.786,0.810,0.860,0.784,0.810,(4.5781)+(-0.0413)Asn+(0.0109)Gln+(-0.1232)His+(-0.0670)Cit+(-0.0813)Met+(0.0429)Orn;0.796,0.830,0.772,0.755,0.776,0.801,0.789,0.780,(4.3739)+(0.0104)Asn+(-0.1263)His+(-0.0220)Tyr+(-0.1585)Met+(0.0269)Orn+(0.1116)Phe;0.796,0.830,0.759,0.742,0.765,0.841,0.731,0.770,(5.3509)+(0.0445)Ser+(-0.0573)Asn+(-0.0042)Gly+(-0.1196)His+(0.0124)Thr+(-0.0138)Arg;0.796,0.829,0.738,0.721,0.739,0.827,0.720,0.751,(4.4738)+(0.0422)Ser+(-0.0669)Asn+(-0.1182)His+(0.0091)Pro+(-0.0147)Tyr+(0.0027)Lys;0.796,0.828,0.787,0.768,0.796,0.850,0.775,0.797,(4.7490)+(-0.0821)Asn+(0.0099)Gln+(-0.1327)His+(0.0106)Thr+(-0.0662)Cit+(0.0371)Orn;0.796,0.821,0.737,0.714,0.737,0.818,0.739,0.752,(4.2609)+(0.0417)Ser+(-0.0052)Gly+(-0.1372)His+(0.0060)Thr+(-0.0189)Tyr+(0.0056)Val;0.796,0.833,0.798,0.800,0.799,0.859,0.750,0.802,(4.7660)+(0.0002)Gly+(0.0096)Gln+(-0.1288)His+(0.0232)Thr+(-0.0365)Cit+(-0.1670)Met;0.796,0.830,0.793,0.805,0.794,0.839,0.724,0.791,(4.3468)+(0.0283)Ser+(0.0070)Thr+(-0.0035)Ala+(-0.0190)Arg+(0.0037)Tyr+(-0.1439)Trp;0.796,0.823,0.772,0.761,0.754,0.828,0.795,0.785,(4.1540)+(0.0080)Gln+(-0.1559)His+(0.0113)Thr+(-0.0038)Ala+(-0.0174)Tyr+(0.0188)Leu;0.796,0.821,0.762,0.763,0.695,0.839,0.844,0.785,(3.7052)+(0.0091)Thr+(-0.0094)Ala+(-0.0292)Arg+(-0.0452)Val+(0.2064)Ile+(-0.0339)Leu;0.796,0.832,0.799,0.799,0.791,0.822,0.801,0.803,(3.9021)+(0.0386)Ser+(-0.0076)Gly+(-0.0034)Ala+(-0.0053)Tyr+(0.0031)Val+(-0.1459)Trp;0.796,0.827,0.742,0.710,0.734,0.805,0.798,0.762,(4.3031)+(-0.1390)His+(0.0014)Pro+(-0.0235)Val+(0.0284)Orn+(0.0316)Leu+(0.0668)Phe;0.796,0.824,0.757,0.730,0.740,0.843,0.803,0.779,(5.4014)+(0.0060)Gly+(-0.1127)His+(-0.0079)Ala+(-0.0582)Cit+(0.0027)Arg+(0.0693)Ile;0.796,0.822,0.733,0.695,0.737,0.812,0.764,0.752,(5.9861)+(-0.1369)His+(0.0164)Thr+(-0.0258)Val+(0.0309)Orn+(-0.0086)Lys+(0.0518)Leu;0.796,0.831,0.7

90,0.773,0.788,0.840,0.803,0.801,(3.6481)+(0.0104)Gln+(-0.1485)His+(-0.1416)Met+(0.0184)Orn+(-0.0002)Lys+(0.0182)Leu;0.796,0.830,0.802,0.788,0.808,0.803,0.823,0.805,(5.6255)+(-0.0091)Asn+(0.0145)Tyr+(-0.1845)Met+(0.0020)Lys+(0.0631)Ile+(-0.1476)Trp;0.796,0.829,0.804,0.789,0.822,0.820,0.792,0.806,(8.3925)+(-0.0835)His+(-0.0366)Cit+(0.0105)Tyr+(0.0072)Val+(0.0071)Lys+(-0.1200)Trp;0.796,0.827,0.834,0.838,0.841,0.845,0.804,0.832,(5.2954)+(0.0058)Gln+(-0.0046)Ala+(-0.0797)Cit+(0.0066)Tyr+(0.0068)Val+(-0.1589)Trp;0.796,0.826,0.743,0.706,0.747,0.825,0.772,0.763,(2.8508)+(0.0028)Gly+(0.0075)Gln+(-0.1533)His+(-0.0651)Cit+(0.0259)Orn+(0.0422)Ile;0.796,0.825,0.797,0.790,0.792,0.845,0.789,0.804,(4.8123)+(-0.0797)Asn+(0.0110)Gln+(-0.1369)His+(0.0144)Thr+(-0.0407)Cit+(0.0018)Val;0.796,0.825,0.802,0.797,0.794,0.853,0.799,0.811,(4.6763)+(-0.0473)Asn+(0.0113)Gln+(-0.1366)His+(-0.0024)Ala+(-0.0165)Arg+(0.0282)Orn;0.796,0.823,0.773,0.769,0.720,0.837,0.849,0.794,(6.1696)+(-0.0984)Asn+(-0.0466)Cit+(-0.0006)Arg+(-0.0228)Tyr+(-0.0515)Val+(0.1657)Ile;0.796,0.822,0.748,0.724,0.753,0.843,0.731,0.763,(4.2899)+(0.0408)Ser+(-0.1280)His+(-0.0039)Ala+(-0.0383)Cit+(0.0102)Val+(-0.0038)Lys;0.796,0.828,0.832,0.849,0.812,0.840,0.825,0.831,(5.5325)+(-0.0761)Asn+(0.0062)Gln+(-0.0053)Ala+(0.0098)Pro+(-0.0036)Tyr+(-0.1334)Trp;0.796,0.828,0.839,0.848,0.842,0.852,0.802,0.836,(5.5471)+(0.0058)Gln+(-0.0034)Ala+(-0.0726)Cit+(0.0084)Tyr+(-0.0003)Lys+(-0.1493)Trp;0.796,0.825,0.730,0.695,0.740,0.799,0.754,0.747,(3.7895)+(-0.0504)Asn+(0.0085)Gly+(-0.1326)His+(-0.0507)Cit+(0.0372)Ile+(0.0706)Phe;0.796,0.823,0.790,0.779,0.783,0.840,0.794,0.799,(4.3418)+(-0.0639)Asn+(0.0007)Gly+(0.0100)Gln+(-0.1414)His+(0.0226)Orn+(0.0002)Lys;0.796,0.823,0.753,0.738,0.741,0.839,0.753,0.768,(4.7307)+(0.0399)Ser+(-0.0054)Gly+(-0.1270)His+(0.0074)Thr+(-0.0018)Ala+(-0.0099)Tyr;0.796,0.822,0.779,0.763,0.759,0.842,0.818,0.795,(3.7775)+(0.0008)Gly+(0.0088)Gln+(-0.1527)His+

(-0.0056)Ala+(0.0059)Pro+(0.0148)Leu;0.796,0.832,0.834,0.852,0.824,0.833,0.806,0.829,(5.4397)+(-0.0985)Asn+(0.0056)Gln+(-0.0055)Val+(0.0216)Orn+(0.0037)Lys+(-0.1334)Trp;0.796,0.832,0.788,0.797,0.780,0.833,0.751,0.790,(3.4826)+(0.0262)Ser+(-0.0047)Ala+(-0.0045)Tyr+(0.0011)Val+(0.0173)Orn+(-0.1450)Trp;0.796,0.830,0.789,0.796,0.783,0.833,0.750,0.791,(3.7056)+(0.0289)Ser+(0.0026)Thr+(-0.0042)Ala+(0.0042)Val+(-0.0050)Lys+(-0.1449)Trp;0.796,0.830,0.789,0.788,0.791,0.808,0.777,0.791,(3.9099)+(0.0402)Ser+(-0.0086)Gly+(0.0030)Thr+(0.0020)Val+(-0.0072)Lys+(-0.1493)Trp;0.796,0.826,0.802,0.802,0.784,0.854,0.804,0.811,(4.9718)+(-0.0762)Asn+(0.0101)Gln+(-0.1371)His+(0.0140)Thr+(-0.0024)Ala+(0.0008)Lys;0.796,0.825,0.795,0.776,0.801,0.856,0.785,0.805,(4.6708)+(-0.0637)Asn+(0.0107)Gln+(-0.1278)His+(-0.0689)Cit+(0.0429)Orn+(-0.0031)Lys;0.796,0.829,0.771,0.778,0.762,0.790,0.755,0.771,(-2.1987)+(0.0608)Ser+(-0.0943)Asn+(-0.0053)Gly+(-0.2925)Met+(-0.0067)Leu+(0.1125)Phe;0.796,0.833,0.752,0.723,0.758,0.838,0.751,0.768,(3.8787)+(0.0064)Gly+(-0.1289)His+(-0.0069)Ala+(-0.0835)Cit+(0.0464)Orn+(0.0849)Phe;0.796,0.829,0.760,0.740,0.744,0.815,0.809,0.777,(4.4560)+(-0.1308)His+(-0.0057)Ala+(0.0063)Pro+(-0.0072)Val+(0.0263)Orn+(0.0795)Phe;0.796,0.825,0.707,0.662,0.714,0.780,0.763,0.730,(3.1713)+(0.0039)Gly+(-0.1613)His+(0.0084)Thr+(0.0090)Orn+(0.0295)Ile+(0.0529)Phe;0.796,0.830,0.806,0.790,0.816,0.829,0.813,0.812,(8.9079)+(-0.0767)His+(-0.0021)Ala+(-0.0368)Cit+(-0.0143)Met+(0.0278)Leu+(-0.1136)Trp;0.796,0.825,0.756,0.740,0.756,0.846,0.735,0.769,(5.0036)+(0.0413)Ser+(-0.0047)Gly+(-0.1270)His+(0.0103)Thr+(-0.0019)Ala+(-0.0165)Arg;0.796,0.831,0.796,0.797,0.796,0.855,0.750,0.800,(4.6460)+(0.0095)Gln+(-0.1301)His+(0.0228)Thr+(-0.0358)Cit+(-0.1743)Met+(0.0027)Lys;0.796,0.831,0.794,0.781,0.800,0.805,0.809,0.799,(5.0583)+(0.0023)Gly+(0.0172)Tyr+(-0.2038)Met+(0.0013)Lys+(0.0655)Ile+(-0.1477)Trp;0.796,0.830,0.815,0.822,0.831,0.842,0.742,0.

809,(7.4667)+(0.0001)Gly+(0.0185)Thr+(-0.0035)Ala+(-0.0670)Cit+(-0.0050)Arg+(-0.1490)Trp;0.796,0.828,0.789,0.771,0.800,0.851,0.772,0.798,(4.1731)+(0.0100)Gln+(-0.1278)His+(-0.0629)Cit+(0.0064)Pro+(-0.1356)Met+(0.0391)Orn;0.796,0.827,0.748,0.725,0.738,0.829,0.771,0.766,(5.4370)+(-0.0350)Asn+(0.0061)Gly+(-0.0949)His+(-0.0509)Cit+(0.1187)Ile+(-0.0475)Leu;0.796,0.826,0.711,0.662,0.739,0.823,0.701,0.731,(3.1674)+(0.0368)Ser+(-0.1441)His+(-0.0589)Cit+(0.0022)Pro+(0.0338)Orn+(0.0126)Leu;0.796,0.826,0.755,0.760,0.675,0.848,0.842,0.781,(0.2400)+(0.0312)Ser+(-0.0162)Thr+(-0.0101)Ala+(-0.0249)Tyr+(0.1821)Ile+(-0.0854)Leu;0.796,0.826,0.743,0.723,0.754,0.832,0.710,0.755,(4.6865)+(0.0447)Ser+(-0.0589)Asn+(-0.1138)His+(-0.0248)Cit+(-0.0083)Arg+(0.0085)Pro;0.796,0.832,0.759,0.756,0.769,0.822,0.701,0.762,(0.6089)+(0.0463)Ser+(-0.2036)Asn+(-0.0974)Cit+(-0.0217)Val+(0.0514)Orn+(0.1010)Phe;0.796,0.826,0.761,0.729,0.767,0.830,0.787,0.778,(3.1034)+(0.0100)Gln+(-0.1540)His+(-0.0502)Cit+(-0.0149)Arg+(0.0241)Orn+(0.0412)Ile;0.796,0.822,0.785,0.777,0.770,0.842,0.795,0.796,(4.3210)+(0.0087)Gln+(-0.1525)His+(0.0095)Thr+(-0.0035)Ala+(0.0051)Val+(-0.0039)Lys;0.796,0.831,0.805,0.810,0.806,0.832,0.770,0.805,(8.5384)+(0.0029)Gly+(-0.0780)His+(0.0002)Ala+(0.0012)Arg+(-0.0177)Met+(-0.0931)Trp;0.796,0.828,0.814,0.813,0.829,0.811,0.785,0.810,(7.7731)+(-0.0517)Asn+(-0.0675)Cit+(0.0031)Arg+(0.0084)Pro+(0.0051)Lys+(-0.1454)Trp;0.796,0.827,0.805,0.815,0.800,0.822,0.778,0.804,(6.6449)+(-0.0049)Ala+(-0.0081)Arg+(0.0114)Pro+(-0.1074)Met+(0.0263)Orn+(-0.1250)Trp;0.796,0.827,0.738,0.728,0.735,0.788,0.737,0.747,(4.3357)+(0.0039)Gly+(-0.1386)His+(-0.0122)Arg+(-0.0423)Tyr+(0.0289)Orn+(0.0958)Phe;0.796,0.832,0.767,0.748,0.767,0.821,0.780,0.779,(5.1120)+(-0.1188)His+(-0.0048)Ala+(-0.0723)Cit+(-0.0398)Tyr+(0.0505)Orn+(0.0949)Phe;0.796,0.828,0.757,0.740,0.744,0.812,0.791,0.772,(4.7651)+(-0.1429)His+(0.0189)Thr+(-0.0043)Ala+(-0.0037)Val+(-0.0062)Lys+(0

.0906)Phe;0.796,0.827,0.739,0.719,0.708,0.832,0.792,0.763,(4.3268)+(-0.0983)Cit+(-0.0388)Tyr+(-0.0475)Val+(0.0555)Orn+(-0.0165)Lys+(0.1547)Ile;0.796,0.833,0.780,0.782,0.785,0.796,0.755,0.780,(5.9227)+(0.0167)Thr+(-0.0224)Arg+(0.0052)Pro+(-0.0277)Val+(0.0503)Leu+(-0.1577)Trp;0.796,0.828,0.749,0.714,0.759,0.820,0.772,0.766,(5.3113)+(0.0051)Gly+(-0.1217)His+(0.0012)Pro+(-0.1649)Met+(0.0199)Orn+(0.0603)Ile;0.796,0.827,0.767,0.766,0.749,0.809,0.776,0.775,(4.8114)+(-0.0381)Asn+(0.0054)Gly+(-0.1278)His+(-0.0029)Ala+(-0.0293)Tyr+(0.1071)Phe;0.796,0.826,0.802,0.803,0.830,0.822,0.728,0.796,(7.1437)+(0.0165)Thr+(-0.0740)Cit+(-0.0039)Arg+(0.0040)Val+(-0.0033)Lys+(-0.1611)Trp;0.796,0.822,0.750,0.721,0.739,0.824,0.793,0.769,(5.5338)+(-0.1100)His+(0.0096)Thr+(-0.0441)Cit+(-0.0043)Pro+(0.1159)Ile+(-0.0457)Leu;0.796,0.819,0.751,0.725,0.743,0.821,0.785,0.768,(3.9288)+(0.0064)Gln+(-0.1563)His+(0.0074)Thr+(-0.0199)Val+(0.0200)Orn+(0.0399)Leu;0.796,0.817,0.758,0.736,0.747,0.815,0.796,0.774,(4.0203)+(-0.0006)Gly+(0.0074)Gln+(-0.1580)His+(0.0098)Thr+(-0.0175)Val+(0.0392)Leu;0.796,0.832,0.775,0.743,0.768,0.836,0.830,0.794,(6.2270)+(-0.1125)His+(-0.0051)Ala+(-0.0043)Tyr+(-0.1213)Met+(0.0260)Orn+(0.0628)Ile;0.796,0.825,0.766,0.758,0.753,0.820,0.775,0.777,(4.6891)+(-0.0362)Asn+(0.0063)Gly+(-0.1315)His+(-0.0040)Ala+(-0.0070)Arg+(0.0949)Phe;0.796,0.825,0.735,0.708,0.713,0.819,0.792,0.758,(5.8330)+(-0.0981)His+(0.0171)Thr+(-0.0220)Cit+(-0.0204)Arg+(-0.0375)Val+(0.1359)Ile;0.796,0.824,0.792,0.785,0.787,0.842,0.789,0.801,(4.7975)+(-0.0823)Asn+(0.0109)Gln+(-0.1347)His+(0.0137)Thr+(-0.0402)Cit+(0.0037)Pro;0.796,0.823,0.772,0.758,0.771,0.829,0.770,0.782,(3.9749)+(0.0102)Gln+(-0.1639)His+(0.0139)Thr+(-0.0218)Arg+(-0.0035)Lys+(0.0142)Leu;0.796,0.823,0.779,0.767,0.766,0.836,0.796,0.791,(4.3441)+(-0.0008)Gly+(0.0076)Gln+(-0.1486)His+(0.0061)Thr+(-0.0036)Ala+(0.0223)Orn;0.796,0.821,0.753,0.758,0.674,0.828,0.849,0.777,(3.0661)+(-0.0091)Ala

+(-0.0328)Tyr+(-0.0401)Val+(0.0179)Orn+(0.1908)Ile+(-0.0342)Leu;0.796,0.834,0.837,0.845,0.823,0.838,0.848,0.838,(5.5044)+(-0.0983)Asn+(0.0065)Gln+(0.0008)Tyr+(-0.0265)Val+(0.0510)Leu+(-0.1364)Trp;0.796,0.826,0.810,0.810,0.796,0.862,0.799,0.817,(5.2498)+(-0.0781)Asn+(0.0107)Gln+(-0.1275)His+(0.0162)Thr+(-0.0027)Ala+(-0.0414)Cit;0.796,0.824,0.788,0.777,0.781,0.839,0.796,0.798,(4.4340)+(-0.0671)Asn+(0.0100)Gln+(-0.1375)His+(0.0039)Pro+(-0.0027)Val+(0.0227)Orn;0.796,0.830,0.800,0.789,0.811,0.812,0.795,0.802,(8.2054)+(-0.0940)His+(-0.0054)Arg+(0.0082)Tyr+(0.0053)Val+(0.0097)Lys+(-0.1131)Trp;0.796,0.829,0.835,0.853,0.820,0.840,0.817,0.832,(5.5661)+(-0.0687)Asn+(0.0066)Gln+(-0.0052)Ala+(-0.0092)Arg+(0.0098)Pro+(-0.1339)Trp;0.796,0.827,0.805,0.815,0.798,0.820,0.782,0.804,(6.3883)+(0.0001)Gly+(-0.0050)Ala+(0.0114)Pro+(-0.1193)Met+(0.0236)Orn+(-0.1259)Trp;0.796,0.823,0.801,0.799,0.781,0.849,0.814,0.811,(4.6125)+(-0.0587)Asn+(0.0011)Gly+(0.0106)Gln+(-0.1325)His+(-0.0042)Ala+(0.0082)Pro;0.796,0.822,0.804,0.799,0.784,0.849,0.823,0.814,(4.5765)+(-0.0555)Asn+(0.0108)Gln+(-0.1352)His+(-0.0044)Ala+(0.0077)Pro+(0.0015)Val;0.796,0.829,0.726,0.682,0.726,0.794,0.794,0.749,(3.9121)+(-0.1603)His+(0.0121)Thr+(-0.0048)Pro+(0.0120)Orn+(0.0333)Ile+(0.0498)Phe;0.796,0.828,0.735,0.699,0.745,0.795,0.766,0.751,(4.4432)+(-0.1538)His+(0.0161)Thr+(-0.0011)Pro+(0.0199)Orn+(-0.0100)Lys+(0.0744)Phe;0.796,0.827,0.726,0.685,0.751,0.828,0.712,0.744,(3.7244)+(0.0380)Ser+(-0.0025)Gly+(-0.1343)His+(-0.0583)Cit+(0.0040)Pro+(0.0383)Orn;0.796,0.835,0.750,0.728,0.737,0.815,0.791,0.768,(4.2057)+(-0.1434)His+(0.0130)Thr+(-0.0046)Ala+(-0.0064)Val+(0.0222)Orn+(0.0830)Phe;0.796,0.834,0.771,0.747,0.786,0.810,0.776,0.780,(4.8079)+(-0.1157)His+(-0.0581)Cit+(-0.0269)Tyr+(-0.1277)Met+(0.0430)Orn+(0.1071)Phe;0.796,0.831,0.781,0.765,0.781,0.816,0.800,0.790,(4.6228)+(-0.1222)His+(-0.0020)Ala+(-0.0207)Tyr+(-0.1392)Met+(

0.0281)Orn+(0.1104)Phe;0.796,0.830,0.793,0.795,0.815,0.802,0.738,0.787,(5.7196)+(0.0236)Thr+(0.0112)Tyr+(-0.2161)Met+(0.0095)Orn+(0.0145)Leu+(-0.1525)Trp;0.796,0.830,0.815,0.822,0.832,0.842,0.743,0.809,(7.4958)+(0.0187)Thr+(-0.0035)Ala+(-0.0669)Cit+(-0.0049)Arg+(-0.0002)Lys+(-0.1489)Trp;0.796,0.833,0.836,0.850,0.833,0.835,0.806,0.831,(5.0153)+(-0.0574)Asn+(0.0067)Gln+(0.0120)Tyr+(-0.1238)Met+(0.0197)Orn+(-0.1357)Trp;0.796,0.828,0.793,0.809,0.795,0.800,0.743,0.787,(6.8203)+(-0.0831)Asn+(0.0153)Thr+(0.0045)Pro+(-0.0180)Tyr+(0.0168)Orn+(-0.1376)Trp;0.796,0.827,0.837,0.849,0.839,0.846,0.794,0.832,(5.5639)+(0.0061)Gln+(-0.0029)Ala+(-0.0690)Cit+(-0.0032)Arg+(0.0010)Lys+(-0.1469)Trp;0.796,0.831,0.780,0.779,0.771,0.822,0.774,0.786,(3.0152)+(0.0291)Ser+(0.0002)Thr+(-0.0054)Ala+(-0.0029)Tyr+(0.0173)Leu+(-0.1544)Trp;0.796,0.830,0.759,0.782,0.710,0.773,0.790,0.764,(2.2408)+(-0.1116)Asn+(0.0112)Thr+(-0.0778)Tyr+(0.1522)Ile+(-0.0946)Leu+(0.1014)Phe;0.796,0.828,0.751,0.730,0.739,0.791,0.804,0.766,(4.9947)+(-0.1251)His+(-0.0384)Cit+(-0.0474)Tyr+(-0.0041)Lys+(0.0436)Ile+(0.0844)Phe;0.796,0.832,0.762,0.751,0.683,0.836,0.899,0.792,(2.1890)+(-0.0113)Ala+(0.0037)Pro+(-0.0528)Val+(-0.0142)Lys+(0.1704)Ile+(0.0448)Phe;0.796,0.829,0.794,0.769,0.806,0.818,0.817,0.803,(8.4433)+(-0.0831)His+(-0.0337)Cit+(0.0170)Tyr+(-0.0156)Val+(0.0488)Leu+(-0.1204)Trp;0.796,0.828,0.741,0.711,0.738,0.818,0.768,0.759,(5.5803)+(-0.1187)His+(0.0107)Thr+(-0.0210)Arg+(0.0230)Orn+(0.1065)Ile+(-0.0483)Leu;0.796,0.833,0.779,0.761,0.761,0.832,0.825,0.795,(6.3060)+(-0.0871)His+(-0.0023)Arg+(-0.0038)Tyr+(-0.1417)Met+(0.1332)Ile+(-0.0507)Leu;0.796,0.827,0.786,0.776,0.780,0.837,0.788,0.795,(3.9228)+(0.0099)Gln+(-0.1381)His+(0.0068)Pro+(0.0007)Val+(-0.1386)Met+(0.0212)Orn;0.796,0.827,0.752,0.718,0.787,0.824,0.716,0.761,(6.5299)+(-0.1257)His+(0.0291)Thr+(-0.0598)Cit+(-0.1972)Met+(0.0369)Orn+(0.0198)Leu;0.796,0.826,0.799,0.794,0.785,0.850,0.804,0.808,(4.7504)

+(-0.0566)Asn+(0.0099)Gln+(-0.1333)His+(-0.0023)Ala+(-0.0092)Tyr+(0.0272)Orn;0.796,0.825,0.734,0.716,0.747,0.788,0.718,0.742,(4.5646)+(-0.0637)Asn+(0.0057)Gly+(-0.1477)His+(0.0223)Thr+(-0.0168)Arg+(0.0890)Phe;0.796,0.824,0.735,0.703,0.736,0.836,0.747,0.756,(3.7193)+(0.0411)Ser+(-0.1353)His+(-0.0046)Ala+(-0.0359)Cit+(-0.0048)Tyr+(0.0260)Leu;0.796,0.829,0.802,0.818,0.798,0.839,0.740,0.799,(3.7017)+(0.0283)Ser+(0.0021)Gln+(-0.0032)Ala+(-0.0181)Arg+(0.0010)Lys+(-0.1419)Trp;0.796,0.830,0.790,0.792,0.785,0.804,0.788,0.792,(5.0038)+(0.0019)Gln+(0.0123)Thr+(-0.0255)Val+(-0.0084)Lys+(0.0516)Leu+(-0.1581)Trp;0.796,0.826,0.729,0.691,0.736,0.791,0.772,0.747,(4.4794)+(-0.1565)His+(0.0187)Thr+(-0.0171)Arg+(-0.0039)Pro+(0.0338)Ile+(0.0570)Phe;0.796,0.831,0.774,0.741,0.796,0.822,0.783,0.785,(4.4641)+(0.0135)Asn+(-0.1198)His+(-0.0558)Cit+(-0.1783)Met+(0.0391)Orn+(0.1025)Phe;0.796,0.829,0.744,0.736,0.731,0.779,0.769,0.754,(4.4233)+(-0.1298)His+(0.0044)Pro+(-0.0469)Tyr+(-0.0073)Val+(0.0306)Orn+(0.0979)Phe;0.796,0.835,0.742,0.733,0.714,0.840,0.755,0.761,(-0.5399)+(0.0399)Ser+(0.0014)Thr+(-0.3138)Met+(-0.0016)Orn+(0.1704)Ile+(-0.0745)Leu;0.796,0.834,0.743,0.735,0.714,0.839,0.756,0.761,(-0.6597)+(0.0393)Ser+(0.0004)Gln+(0.0008)Thr+(-0.3145)Met+(0.1701)Ile+(-0.0748)Leu;0.796,0.826,0.742,0.722,0.748,0.832,0.718,0.755,(4.5906)+(0.0398)Ser+(-0.0646)Asn+(-0.1276)His+(0.0075)Thr+(0.0037)Val+(-0.0006)Lys;0.796,0.830,0.818,0.812,0.839,0.820,0.786,0.814,(7.4904)+(-0.0638)Cit+(0.0093)Pro+(0.0160)Tyr+(0.0022)Val+(-0.1070)Met+(-0.1430)Trp;0.796,0.827,0.734,0.713,0.750,0.827,0.691,0.745,(4.3113)+(0.0367)Ser+(-0.1344)His+(-0.0175)Arg+(-0.0155)Tyr+(0.0033)Val+(0.0307)Orn;0.796,0.833,0.753,0.755,0.773,0.810,0.665,0.751,(-2.3634)+(0.0433)Ser+(-0.0946)Cit+(-0.0125)Val+(-0.3457)Met+(0.0372)Orn+(0.1284)Phe;0.796,0.830,0.834,0.850,0.827,0.824,0.816,0.829,(5.5168)+(-0.0890)Asn+(-0.0007)Gly+(0.0064)Gln+(0.0062)Pro+(-0.0039)Val+(-0.1346)Trp;0.7

96,0.830,0.831,0.847,0.813,0.835,0.827,0.830,(5.3869)+(-0.0840)Asn+(0.0059)Gln+(-0.0056)Ala+(0.0095)Pro+(0.0044)Lys+(-0.1382)Trp;0.796,0.828,0.720,0.734,0.652,0.765,0.791,0.735,(-1.5662)+(0.0368)Ser+(-0.0117)Gly+(-0.0921)Tyr+(0.1618)Ile+(-0.0994)Leu+(0.0932)Phe;0.796,0.827,0.742,0.719,0.744,0.802,0.755,0.755,(-1.0256)+(0.0560)Ser+(-0.0630)Asn+(-0.0059)Gly+(0.0099)Thr+(-0.3265)Met+(0.0606)Ile;0.796,0.821,0.722,0.709,0.671,0.828,0.782,0.748,(1.0395)+(0.0319)Ser+(-0.0299)Arg+(-0.0016)Pro+(-0.0530)Val+(-0.0139)Lys+(0.1693)Ile;0.796,0.820,0.709,0.666,0.725,0.812,0.713,0.729,(3.1958)+(0.0394)Ser+(-0.1467)His+(0.0022)Thr+(-0.0342)Cit+(0.0033)Pro+(0.0178)Leu;0.796,0.834,0.779,0.772,0.778,0.797,0.783,0.783,(3.5466)+(0.0438)Ser+(-0.0085)Gly+(-0.0121)Tyr+(-0.0091)Lys+(0.0168)Leu+(-0.1509)Trp;0.796,0.831,0.793,0.802,0.786,0.837,0.752,0.794,(3.9368)+(0.0277)Ser+(0.0029)Thr+(-0.0037)Ala+(0.0021)Tyr+(-0.0036)Lys+(-0.1416)Trp;0.796,0.823,0.806,0.804,0.788,0.852,0.817,0.815,(4.4673)+(-0.0535)Asn+(0.0009)Gly+(0.0111)Gln+(-0.1400)His+(-0.0025)Ala+(0.0036)Val;0.796,0.820,0.753,0.746,0.690,0.844,0.838,0.780,(3.3386)+(0.0071)Thr+(-0.0098)Ala+(-0.0327)Arg+(-0.0585)Val+(0.0257)Orn+(0.1822)Ile;0.796,0.829,0.786,0.785,0.781,0.796,0.795,0.789,(5.3080)+(-0.0023)Gly+(0.0086)Thr+(-0.0277)Val+(0.0180)Orn+(0.0479)Leu+(-0.1577)Trp;0.796,0.831,0.752,0.743,0.738,0.791,0.773,0.761,(4.4992)+(-0.1314)His+(-0.0441)Tyr+(-0.0066)Val+(0.0323)Orn+(0.0006)Lys+(0.0993)Phe;0.796,0.827,0.741,0.730,0.732,0.777,0.765,0.751,(4.4660)+(-0.1351)His+(0.0035)Pro+(-0.0496)Tyr+(0.0280)Orn+(-0.0037)Leu+(0.0924)Phe;0.796,0.826,0.721,0.692,0.718,0.792,0.749,0.738,(5.3695)+(0.0011)Gly+(-0.1412)His+(0.0134)Thr+(-0.0394)Tyr+(0.0217)Orn+(0.0486)Ile;0.796,0.825,0.744,0.709,0.742,0.809,0.794,0.764,(6.1041)+(-0.0332)Asn+(-0.1355)His+(0.0185)Thr+(-0.0031)Pro+(-0.0058)Lys+(0.0509)Ile;0.796,0.829,0.743,0.712,0.753,0.783,0.775,0.756,(4.7462)+(-0.0622)Asn+(-0.1440)His+(

0.0177)Thr+(0.0173)Orn+(-0.0043)Leu+(0.0757)Phe;0.796,0.825,0.761,0.746,0.738,0.822,0.800,0.777,(6.2601)+(-0.0893)His+(-0.0382)Cit+(-0.0029)Arg+(-0.0266)Tyr+(0.1251)Ile+(-0.0506)Leu;0.796,0.835,0.742,0.733,0.714,0.839,0.754,0.760,(-0.6614)+(0.0398)Ser+(0.0004)Gln+(0.0014)Pro+(-0.3151)Met+(0.1681)Ile+(-0.0746)Leu;0.796,0.828,0.790,0.776,0.784,0.835,0.808,0.801,(3.5056)+(0.0114)Gln+(-0.1459)His+(0.0058)Pro+(0.0014)Tyr+(-0.1624)Met+(0.0184)Leu;0.796,0.828,0.811,0.821,0.801,0.825,0.796,0.811,(6.8517)+(-0.0543)Asn+(-0.0057)Ala+(0.0096)Pro+(-0.0058)Tyr+(0.0237)Orn+(-0.1275)Trp;0.796,0.835,0.761,0.757,0.770,0.798,0.729,0.763,(2.7891)+(0.0319)Ser+(-0.0004)Gln+(0.0121)Orn+(-0.0110)Lys+(0.0143)Leu+(-0.1548)Trp;0.796,0.828,0.816,0.814,0.832,0.817,0.784,0.812,(7.9920)+(-0.0400)Asn+(-0.0670)Cit+(0.0084)Pro+(0.0021)Tyr+(0.0012)Val+(-0.1433)Trp;0.796,0.824,0.813,0.818,0.830,0.826,0.755,0.807,(7.5778)+(-0.0482)Asn+(0.0037)Gly+(-0.0759)Cit+(0.0089)Arg+(0.0047)Val+(-0.1435)Trp;0.796,0.824,0.791,0.781,0.784,0.842,0.795,0.801,(4.4325)+(-0.0643)Asn+(0.0006)Gly+(0.0100)Gln+(-0.1393)His+(-0.0010)Val+(0.0238)Orn;0.796,0.833,0.768,0.779,0.774,0.808,0.700,0.765,(3.7493)+(0.0321)Ser+(-0.0203)Arg+(0.0079)Pro+(-0.0100)Tyr+(-0.0005)Lys+(-0.1459)Trp;0.796,0.833,0.763,0.764,0.766,0.800,0.723,0.763,(2.9364)+(0.0310)Ser+(-0.0128)Tyr+(0.0138)Orn+(-0.0101)Lys+(0.0149)Leu+(-0.1512)Trp;0.796,0.830,0.830,0.846,0.822,0.822,0.809,0.825,(5.4182)+(-0.1006)Asn+(0.0060)Gln+(0.0064)Pro+(-0.0055)Val+(0.0058)Lys+(-0.1368)Trp;0.796,0.825,0.785,0.766,0.782,0.834,0.805,0.797,(3.9791)+(-0.0642)Asn+(0.0104)Gln+(-0.1498)His+(0.0016)Pro+(0.0171)Orn+(0.0091)Leu;0.796,0.821,0.765,0.749,0.759,0.829,0.771,0.777,(4.2216)+(0.0094)Gln+(-0.1578)His+(0.0157)Thr+(-0.0242)Arg+(-0.0184)Val+(0.0408)Leu;0.796,0.828,0.793,0.780,0.794,0.842,0.794,0.802,(3.7416)+(0.0116)Gln+(-0.1473)His+(-0.0135)Arg+(-0.1258)Met+(0.0208)Orn+(0.0165)Leu;0.796,0.828,0.736,0.736,0.766,0.77

1,0.651,0.731,(-2.8173)+(0.0488)Ser+(-0.0034)Gly+(0.0182)Thr+(-0.0825)Cit+(-0.4298)Met+(0.1209)Phe;0.796,0.827,0.741,0.720,0.724,0.811,0.780,0.759,(3.8770)+(0.0035)Gly+(-0.1479)His+(0.0119)Thr+(-0.0062)Ala+(0.0046)Pro+(0.0807)Phe;0.796,0.827,0.796,0.788,0.786,0.849,0.798,0.805,(4.1320)+(0.0098)Gln+(-0.1406)His+(-0.0019)Ala+(0.0036)Val+(-0.1043)Met+(0.0240)Orn;0.796,0.830,0.793,0.793,0.788,0.846,0.767,0.799,(4.3406)+(0.0092)Gln+(-0.1398)His+(0.0214)Thr+(0.0086)Tyr+(-0.1912)Met+(0.0031)Lys;0.796,0.827,0.789,0.782,0.813,0.800,0.751,0.787,(6.3036)+(0.0030)Gly+(-0.0822)Cit+(0.0003)Arg+(0.0067)Pro+(0.0135)Leu+(-0.1642)Trp;0.796,0.820,0.741,0.722,0.709,0.816,0.803,0.762,(5.5348)+(0.0027)Gly+(-0.0907)His+(-0.0157)Arg+(-0.0332)Val+(0.1438)Ile+(-0.0120)Leu;0.796,0.834,0.810,0.810,0.801,0.825,0.816,0.813,(6.8745)+(-0.0856)Asn+(-0.0326)Val+(0.0316)Orn+(0.0028)Lys+(0.0556)Leu+(-0.1291)Trp;0.796,0.831,0.808,0.823,0.823,0.824,0.729,0.800,(7.4030)+(-0.0772)Asn+(0.0189)Thr+(-0.0156)Arg+(-0.0055)Val+(0.0255)Orn+(-0.1326)Trp;0.796,0.831,0.830,0.842,0.831,0.820,0.801,0.823,(5.7400)+(-0.1078)Asn+(-0.0020)Gly+(0.0058)Gln+(0.0161)Thr+(0.0003)Lys+(-0.1478)Trp;0.796,0.830,0.842,0.861,0.835,0.835,0.813,0.836,(5.1763)+(-0.0635)Asn+(0.0072)Gln+(-0.0012)Val+(-0.1044)Met+(0.0078)Lys+(-0.1367)Trp;0.796,0.830,0.814,0.822,0.824,0.819,0.770,0.809,(5.4320)+(0.0056)Gln+(-0.0767)Cit+(-0.0054)Arg+(0.0083)Pro+(-0.0081)Tyr+(-0.1566)Trp;0.796,0.829,0.735,0.724,0.697,0.812,0.789,0.756,(-1.3546)+(0.0439)Ser+(-0.1875)Asn+(-0.0026)Orn+(0.1449)Ile+(-0.0908)Leu+(0.0768)Phe;0.796,0.828,0.808,0.794,0.806,0.849,0.818,0.816,(3.8549)+(-0.0267)Asn+(0.0129)Gln+(-0.1380)His+(-0.0382)Cit+(-0.1181)Met+(0.0212)Leu;0.796,0.827,0.790,0.791,0.777,0.837,0.783,0.797,(4.8826)+(-0.0743)Asn+(0.0101)Gln+(-0.1396)His+(0.0151)Thr+(-0.0158)Tyr+(0.0021)Val;0.796,0.827,0.776,0.778,0.766,0.772,0.795,0.778,(3.9103)+(0.0023)Gln+(-0.0

008)Pro+(-0.0244)Tyr+(0.0026)Orn+(0.0523)Ile+(-0.1654)Trp;0.796,0.826,0.758,0.730,0.790,0.832,0.711,0.766,(6.7213)+(-0.1114)His+(0.0236)Thr+(-0.0636)Cit+(0.0061)Pro+(-0.1726)Met+(0.0429)Orn;0.796,0.823,0.726,0.701,0.718,0.792,0.762,0.743,(5.6949)+(0.0016)Gly+(-0.1346)His+(0.0168)Thr+(-0.0324)Tyr+(-0.0051)Lys+(0.0556)Ile;0.796,0.823,0.791,0.782,0.779,0.832,0.811,0.801,(4.1358)+(-0.0590)Asn+(0.0011)Gly+(0.0111)Gln+(-0.1469)His+(-0.0121)Tyr+(0.0152)Leu;0.796,0.829,0.792,0.806,0.794,0.837,0.719,0.789,(4.4117)+(0.0281)Ser+(0.0074)Thr+(-0.0033)Ala+(-0.0188)Arg+(0.0001)Lys+(-0.1429)Trp;0.796,0.825,0.763,0.738,0.745,0.820,0.824,0.782,(5.7893)+(-0.0229)Asn+(-0.1065)His+(-0.0029)Pro+(0.0018)Lys+(0.1149)Ile+(-0.0481)Leu;0.796,0.823,0.792,0.775,0.785,0.835,0.819,0.803,(4.0256)+(-0.0604)Asn+(0.0113)Gln+(-0.1494)His+(0.0023)Pro+(-0.0013)Lys+(0.0123)Leu;0.796,0.825,0.754,0.751,0.743,0.787,0.761,0.760,(4.6755)+(-0.0387)Asn+(0.0053)Gly+(-0.1317)His+(-0.0353)Tyr+(0.0007)Leu+(0.1044)Phe;0.796,0.830,0.796,0.795,0.773,0.815,0.831,0.804,(5.9359)+(-0.0070)Ala+(0.0107)Pro+(-0.0247)Val+(-0.0004)Lys+(0.0517)Leu+(-0.1432)Trp;0.796,0.830,0.761,0.732,0.765,0.821,0.788,0.776,(2.0675)+(0.0087)Gln+(-0.1646)His+(-0.0625)Cit+(-0.0015)Pro+(0.0292)Orn+(0.0689)Phe;0.796,0.829,0.772,0.739,0.755,0.839,0.846,0.795,(4.8568)+(-0.1216)His+(-0.0084)Ala+(-0.0498)Cit+(0.0017)Arg+(0.0513)Ile+(0.0602)Phe;0.796,0.829,0.807,0.789,0.827,0.827,0.799,0.810,(8.5166)+(-0.0796)His+(-0.0439)Cit+(0.0066)Arg+(0.0131)Tyr+(0.0089)Val+(-0.1194)Trp;0.796,0.830,0.804,0.798,0.768,0.872,0.849,0.822,(4.6207)+(-0.0091)Ala+(-0.0736)Cit+(-0.1564)Met+(0.0028)Lys+(0.1849)Ile+(-0.0801)Leu;0.796,0.830,0.805,0.812,0.805,0.821,0.774,0.803,(3.8247)+(0.0399)Ser+(-0.0085)Gly+(0.0024)Gln+(-0.0186)Arg+(-0.0018)Lys+(-0.1470)Trp;0.796,0.827,0.771,0.793,0.695,0.812,0.845,0.786,(1.4308)+(-0.0022)Gly+(-0.0098)Ala+(-0.0648)Tyr+(0.1769)Ile+(-0.0989)Leu+(0.0864)Phe;0.796,0.824,0.797,0.7

90,0.794,0.845,0.785,0.803,(4.5351)+(-0.0516)Asn+(0.0114)Gln+(-0.1389)His+(-0.0173)Arg+(-0.0012)Val+(0.0269)Orn;0.796,0.827,0.794,0.799,0.812,0.795,0.743,0.787,(6.2643)+(-0.0019)Gly+(0.0273)Thr+(-0.2015)Met+(0.0002)Lys+(0.0166)Leu+(-0.1520)Trp;0.796,0.825,0.755,0.735,0.762,0.841,0.731,0.767,(5.2393)+(0.0434)Ser+(-0.0683)Asn+(-0.0033)Gly+(-0.1151)His+(0.0114)Thr+(-0.0294)Cit;0.796,0.822,0.790,0.788,0.779,0.844,0.777,0.797,(4.4146)+(0.0103)Gln+(-0.1535)His+(0.0136)Thr+(-0.0031)Ala+(-0.0224)Arg+(0.0039)Val;0.796,0.831,0.776,0.788,0.787,0.816,0.692,0.771,(3.8498)+(0.0285)Ser+(0.0027)Thr+(-0.0226)Arg+(-0.0091)Tyr+(0.0201)Orn+(-0.1465)Trp;0.796,0.831,0.781,0.793,0.790,0.818,0.700,0.775,(3.5301)+(0.0285)Ser+(0.0010)Gln+(-0.0225)Arg+(-0.0084)Tyr+(0.0200)Orn+(-0.1465)Trp;0.796,0.830,0.799,0.809,0.816,0.805,0.731,0.790,(6.9157)+(-0.0744)Asn+(0.0173)Thr+(-0.0162)Arg+(0.0036)Pro+(0.0180)Orn+(-0.1437)Trp;0.796,0.828,0.783,0.784,0.728,0.858,0.839,0.802,(4.4654)+(-0.0123)Ala+(-0.0843)Cit+(0.0074)Pro+(-0.0324)Tyr+(0.1738)Ile+(-0.0797)Leu;0.796,0.828,0.810,0.816,0.806,0.822,0.792,0.809,(6.3317)+(-0.0052)Ala+(0.0110)Pro+(0.0119)Tyr+(-0.1340)Met+(0.0226)Orn+(-0.1287)Trp;0.796,0.827,0.808,0.804,0.814,0.815,0.799,0.808,(8.5412)+(-0.0205)Asn+(-0.0850)His+(-0.0058)Arg+(0.0122)Tyr+(0.0124)Lys+(-0.1083)Trp;0.796,0.825,0.726,0.689,0.753,0.833,0.695,0.742,(3.8028)+(0.0349)Ser+(-0.1337)His+(-0.0013)Thr+(-0.0637)Cit+(0.0018)Val+(0.0418)Orn;0.796,0.823,0.728,0.709,0.678,0.824,0.812,0.756,(1.0390)+(0.0363)Ser+(-0.0089)Gly+(-0.0411)Arg+(-0.0599)Val+(0.0213)Orn+(0.1661)Ile;0.796,0.828,0.772,0.779,0.762,0.782,0.766,0.772,(-3.0812)+(0.0596)Ser+(-0.1011)Asn+(-0.0055)Gly+(0.0026)Gln+(-0.3101)Met+(0.1041)Phe;0.796,0.833,0.729,0.722,0.721,0.776,0.732,0.738,(-3.7761)+(0.0573)Ser+(-0.0803)Asn+(-0.0229)Tyr+(-0.3361)Met+(0.0490)Ile+(0.0963)Phe;0.796,0.829,0.786,0.768,0.782,0.812,0.825,0.797,(4.6227)+(-0.1148)His+(-0.0044)Ala+(0.0015)Arg+(0.0

095)Pro+(-0.1843)Met+(0.1130)Phe;0.796,0.828,0.822,0.822,0.845,0.836,0.763,0.817,(6.7723)+(0.0033)Gly+(-0.0625)Cit+(0.0293)Tyr+(-0.1280)Met+(0.0077)Lys+(-0.1448)Trp;0.796,0.836,0.740,0.731,0.713,0.839,0.751,0.759,(-0.5668)+(0.0400)Ser+(0.0008)Thr+(0.0014)Pro+(-0.3159)Met+(0.1679)Ile+(-0.0744)Leu;0.796,0.830,0.792,0.798,0.798,0.815,0.750,0.790,(4.7118)+(0.0389)Ser+(-0.0086)Gly+(0.0083)Thr+(-0.0195)Arg+(-0.0095)Tyr+(-0.1473)Trp;0.796,0.828,0.785,0.776,0.779,0.837,0.782,0.794,(3.9333)+(0.0006)Gly+(0.0097)Gln+(-0.1371)His+(0.0071)Pro+(-0.1386)Met+(0.0217)Orn;0.796,0.828,0.818,0.812,0.834,0.817,0.802,0.817,(7.5424)+(-0.0269)Asn+(-0.0693)Cit+(0.0121)Arg+(-0.0685)Met+(0.0193)Leu+(-0.1466)Trp;0.796,0.828,0.725,0.688,0.756,0.831,0.685,0.740,(3.8919)+(0.0366)Ser+(-0.1315)His+(-0.0518)Cit+(-0.0121)Arg+(0.0048)Pro+(0.0387)Orn;0.796,0.826,0.805,0.798,0.794,0.850,0.816,0.814,(3.8210)+(0.0124)Gln+(-0.1454)His+(-0.0018)Ala+(-0.0108)Arg+(-0.1160)Met+(0.0216)Leu;0.796,0.831,0.787,0.795,0.810,0.805,0.702,0.778,(6.2784)+(0.0273)Thr+(-0.0153)Arg+(-0.1902)Met+(0.0147)Orn+(0.0139)Leu+(-0.1481)Trp;0.796,0.830,0.816,0.826,0.808,0.818,0.803,0.814,(6.9138)+(-0.0327)Asn+(-0.0044)Ala+(0.0124)Pro+(-0.1080)Met+(0.0101)Lys+(-0.1312)Trp;0.796,0.828,0.807,0.807,0.827,0.819,0.758,0.803,(7.3374)+(-0.0280)Asn+(0.0043)Gly+(-0.0690)Cit+(-0.0578)Met+(0.0202)Leu+(-0.1452)Trp;0.796,0.827,0.805,0.810,0.826,0.828,0.730,0.799,(7.1872)+(0.0001)Gly+(0.0161)Thr+(-0.0714)Cit+(-0.0032)Tyr+(-0.0021)Lys+(-0.1540)Trp;0.796,0.825,0.741,0.721,0.749,0.830,0.711,0.753,(4.4590)+(0.0442)Ser+(-0.0595)Asn+(-0.1213)His+(-0.0141)Arg+(0.0082)Pro+(0.0035)Lys;0.796,0.832,0.775,0.785,0.779,0.814,0.714,0.773,(3.4443)+(0.0279)Ser+(0.0001)Gln+(-0.0104)Tyr+(0.0175)Orn+(-0.0064)Lys+(-0.1431)Trp;0.796,0.831,0.792,0.791,0.790,0.804,0.789,0.794,(3.4540)+(0.0380)Ser+(-0.0082)Gly+(0.0005)Gln+(-0.0007)Thr+(0.0001)Val+(-0.1529)Trp;0.796,0.829,0.837,0.846,0.840,0.853,0.796,0.83

4,(5.4742)+(0.0008)Gly+(0.0056)Gln+(-0.0035)Ala+(-0.0738)Cit+(0.0090)Tyr+(-0.1498)Trp;0.796,0.824,0.785,0.769,0.766,0.844,0.827,0.802,(3.9515)+(0.0093)Gln+(-0.1506)His+(-0.0054)Ala+(0.0058)Pro+(-0.0038)Lys+(0.0163)Leu;0.796,0.827,0.734,0.707,0.738,0.794,0.758,0.749,(4.8722)+(-0.1487)His+(0.0237)Thr+(-0.0217)Arg+(-0.0248)Val+(0.0356)Leu+(0.0832)Phe;0.796,0.828,0.750,0.728,0.723,0.829,0.808,0.772,(-1.5482)+(0.0526)Ser+(-0.0052)Gly+(-0.0072)Ala+(-0.3070)Met+(0.0012)Orn+(0.0774)Ile;0.796,0.823,0.772,0.749,0.780,0.790,0.805,0.781,(4.1440)+(0.0243)Asn+(-0.1252)His+(0.0063)Pro+(-0.2231)Met+(0.0026)Leu+(0.1128)Phe;0.796,0.821,0.729,0.701,0.747,0.829,0.694,0.743,(4.2089)+(0.0383)Ser+(-0.1356)His+(0.0060)Thr+(-0.0367)Cit+(0.0073)Val+(-0.0062)Lys;0.796,0.836,0.743,0.718,0.761,0.820,0.715,0.753,(0.2496)+(0.0514)Ser+(-0.0465)Asn+(-0.0727)Cit+(-0.2503)Met+(-0.0100)Lys+(0.0731)Ile;0.796,0.831,0.804,0.799,0.803,0.824,0.801,0.807,(6.1534)+(0.0004)Gly+(-0.0311)Val+(-0.1499)Met+(0.0311)Orn+(0.0615)Leu+(-0.1279)Trp;0.796,0.827,0.808,0.793,0.829,0.825,0.796,0.811,(8.7655)+(-0.0012)Asn+(-0.0779)His+(-0.0395)Cit+(0.0157)Tyr+(0.0083)Val+(-0.1181)Trp;0.796,0.823,0.732,0.701,0.737,0.814,0.742,0.749,(3.9169)+(0.0472)Ser+(-0.0042)Gly+(-0.1394)His+(-0.0118)Arg+(-0.0154)Tyr+(0.0209)Leu;0.796,0.821,0.749,0.722,0.751,0.840,0.750,0.766,(4.2038)+(0.0432)Ser+(-0.0028)Gly+(-0.1296)His+(-0.0039)Ala+(-0.0333)Cit+(0.0085)Val;0.796,0.819,0.729,0.695,0.739,0.821,0.731,0.747,(3.7577)+(0.0430)Ser+(-0.0033)Gly+(-0.1355)His+(-0.0287)Cit+(0.0056)Pro+(0.0032)Val;0.796,0.830,0.794,0.797,0.801,0.817,0.755,0.792,(4.6064)+(0.0396)Ser+(-0.0084)Gly+(0.0077)Thr+(-0.0189)Arg+(-0.0027)Lys+(-0.1488)Trp;0.796,0.826,0.828,0.829,0.838,0.835,0.798,0.825,(7.9999)+(-0.0351)Asn+(-0.0029)Ala+(-0.0714)Cit+(0.0104)Arg+(0.0063)Val+(-0.1409)Trp;0.796,0.824,0.798,0.797,0.779,0.849,0.801,0.806,(4.2341)+(0.0009)Gly+(0.0104)Gln+(-0.1294)His+(-0.0032)Ala+(0.0107)Pro+(-0.1

210)Met;0.796,0.826,0.806,0.805,0.788,0.851,0.814,0.815,(4.4857)+(-0.0294)Asn+(0.0113)Gln+(-0.1268)His+(-0.0032)Ala+(0.0101)Pro+(-0.0968)Met;0.796,0.829,0.784,0.782,0.780,0.782,0.798,0.785,(5.4573)+(-0.0021)Gly+(0.0103)Thr+(0.0039)Pro+(-0.0261)Val+(0.0468)Leu+(-0.1597)Trp;0.796,0.825,0.747,0.720,0.754,0.779,0.780,0.758,(4.9743)+(-0.0618)Asn+(-0.1445)His+(0.0203)Thr+(-0.0001)Pro+(-0.0022)Leu+(0.0797)Phe;0.796,0.835,0.758,0.750,0.772,0.856,0.683,0.765,(4.9348)+(0.0372)Ser+(-0.1189)His+(0.0203)Thr+(-0.0136)Arg+(0.0155)Tyr+(-0.1710)Met;0.796,0.834,0.798,0.815,0.802,0.756,0.777,0.787,(3.9157)+(0.0004)Gly+(-0.0145)Arg+(-0.0289)Tyr+(0.0011)Lys+(0.0936)Phe+(-0.1592)Trp;0.796,0.829,0.754,0.725,0.748,0.821,0.794,0.772,(5.8377)+(-0.0167)Asn+(-0.1057)His+(-0.0144)Arg+(0.0276)Orn+(0.1110)Ile+(-0.0519)Leu;0.796,0.829,0.742,0.717,0.762,0.810,0.716,0.751,(5.9708)+(0.0030)Gly+(-0.1344)His+(0.0307)Thr+(0.0053)Pro+(-0.2217)Met+(0.0241)Leu;0.796,0.828,0.772,0.751,0.770,0.826,0.793,0.785,(5.6129)+(-0.0618)Asn+(-0.1282)His+(0.0242)Thr+(-0.0056)Ala+(-0.0448)Cit+(0.0908)Phe;0.796,0.824,0.749,0.719,0.749,0.822,0.777,0.767,(6.8877)+(-0.0871)Asn+(-0.1190)His+(0.0217)Thr+(-0.0337)Val+(0.0326)Orn+(0.0593)Leu;0.796,0.831,0.793,0.795,0.801,0.814,0.756,0.791,(4.4360)+(0.0393)Ser+(-0.0083)Gly+(0.0066)Thr+(-0.0203)Arg+(0.0003)Val+(-0.1515)Trp;0.796,0.831,0.771,0.767,0.765,0.779,0.789,0.775,(5.4805)+(-0.0023)Gly+(0.0139)Thr+(-0.0271)Tyr+(-0.0096)Lys+(0.0574)Ile+(-0.1590)Trp;0.796,0.829,0.

778,0.755,0.788,0.807,0.800,0.787,(4.3988)+(-0.1254)His+(-0.0007)Arg+(-0.1792)Met+(0.0247)Orn+(0.0007)Leu+(0.1042)Phe;0.796,0.830,0.794,0.803,0.785,0.833,0.760,0.795,(3.3627)+(0.0286)Ser+(0.0011)Gln+(-0.0042)Ala+(0.0042)Val+(-0.0049)Lys+(-0.1450)Trp;0.795,0.831,0.748,0.767,0.749,0.792,0.666,0.744,(-3.0892)+(0.0377)Ser+(0.0157)Thr+(-0.0154)Val+(-0.4075)Met+(0.0081)Orn+(0.1341)Phe;0.795,0.826,0.752,0.749,0.740,0.

784,0.761,0.759,(4.5676)+(-0.0442)Asn+(0.0053)Gly+(-0.1336)His+(-0.0380)Tyr+(0.0040)Lys+(0.1042)Phe;0.795,0.823,0.736,0.708,0.745,0.825,0.727,0.751,(4.0317)+(0.0461)Ser+(-0.0041)Gly+(-0.1339)His+(-0.0161)Arg+(0.0067)Pro+(0.0022)Val;0.795,0.834,0.794,0.811,0.800,0.758,0.764,0.783,(4.0160)+(-0.0002)Gly+(-0.0169)Arg+(-0.0313)Tyr+(0.0159)Orn+(0.0859)Phe+(-0.1560)Trp;0.795,0.831,0.796,0.796,0.773,0.813,0.829,0.803,(5.9585)+(-0.0069)Ala+(0.0108)Pro+(-0.0026)Tyr+(-0.0245)Val+(0.0513)Leu+(-0.1426)Trp;0.795,0.828,0.760,0.738,0.763,0.842,0.752,0.774,(4.1055)+(0.0480)Ser+(-0.0036)Gly+(-0.1234)His+(-0.0013)Ala+(0.0089)Val+(-0.1131)Met;0.795,0.826,0.718,0.669,0.744,0.825,0.721,0.740,(3.3318)+(0.0394)Ser+(-0.0021)Gly+(-0.1433)His+(-0.0556)Cit+(0.0341)Orn+(0.0135)Leu;0.795,0.826,0.759,0.735,0.769,0.825,0.753,0.771,(6.5629)+(0.0066)Asn+(-0.1333)His+(0.0329)Thr+(-0.0024)Ala+(-0.1992)Met+(0.0272)Leu;0.795,0.830,0.804,0.802,0.803,0.820,0.802,0.807,(6.0827)+(-0.0313)Val+(-0.1590)Met+(0.0296)Orn+(0.0041)Lys+(0.0603)Leu+(-0.1303)Trp;0.795,0.829,0.807,0.812,0.800,0.826,0.793,0.808,(6.8649)+(-0.0753)Asn+(0.0177)Thr+(-0.0066)Ala+(0.0082)Pro+(0.0104)Leu+(-0.1448)Trp;0.795,0.827,0.804,0.813,0.811,0.807,0.766,0.799,(6.6541)+(-0.0330)Asn+(0.0003)Gly+(0.0076)Pro+(-0.1142)Met+(0.0233)Orn+(-0.1277)Trp;0.795,0.827,0.789,0.775,0.798,0.855,0.756,0.796,(4.3073)+(0.0018)Gly+(0.0094)Gln+(-0.1276)His+(-0.0674)Cit+(-0.1106)Met+(0.0436)Orn;0.795,0.825,0.799,0.801,0.789,0.847,0.778,0.804,(5.2091)+(-0.0797)Asn+(0.0107)Gln+(-0.1281)His+(0.0170)Thr+(-0.0396)Cit+(-0.0133)Tyr;0.795,0.819,0.732,0.719,0.676,0.821,0.820,0.759,(1.0331)+(0.0384)Ser+(-0.0082)Gly+(-0.0011)Thr+(-0.0365)Arg+(-0.0572)Val+(0.1654)Ile;0.795,0.831,0.742,0.710,0.717,0.855,0.798,0.770,(0.7742)+(0.0377)Ser+(-0.0150)Ala+(-0.1015)Cit+(0.0085)Pro+(-0.0243)Lys+(0.0781)Ile;0.795,0.830,0.852,0.866,0.845,0.852,0.827,0.848,(5.1777)+(-0.0531)Asn+(0.0075)Gln+(-0.0015)Ala+(0.0202)Tyr+(-0.

1137)Met+(-0.1356)Trp;0.795,0.829,0.806,0.804,0.827,0.818,0.760,0.802,(7.2152)+(-0.0484)Asn+(0.0045)Gly+(-0.0760)Cit+(0.0104)Tyr+(0.0168)Leu+(-0.1540)Trp;0.795,0.820,0.788,0.785,0.769,0.844,0.795,0.798,(4.6195)+(-0.0011)Gly+(0.0086)Gln+(-0.1459)His+(0.0100)Thr+(-0.0028)Ala+(-0.0024)Lys;0.795,0.820,0.728,0.691,0.727,0.806,0.772,0.749,(5.2878)+(0.0028)Gly+(-0.1422)His+(0.0137)Thr+(-0.0031)Pro+(-0.0075)Lys+(0.0542)Ile;0.795,0.836,0.742,0.733,0.714,0.840,0.752,0.760,(-0.5562)+(0.0405)Ser+(0.0016)Pro+(-0.3130)Met+(-0.0016)Orn+(0.1684)Ile+(-0.0744)Leu;0.795,0.834,0.840,0.849,0.826,0.839,0.846,0.840,(5.5231)+(-0.0905)Asn+(0.0071)Gln+(-0.0080)Arg+(-0.0259)Val+(0.0505)Leu+(-0.1360)Trp;0.795,0.820,0.735,0.712,0.735,0.823,0.730,0.750,(4.3013)+(0.0436)Ser+(-0.0045)Gly+(-0.1221)His+(-0.0248)Cit+(0.0087)Pro+(-0.0196)Tyr;0.795,0.831,0.753,0.754,0.703,0.826,0.800,0.771,(1.9752)+(0.0445)Ser+(-0.1166)Asn+(-0.0068)Gly+(-0.0432)Tyr+(0.1469)Ile+(-0.0736)Leu;0.795,0.829,0.805,0.814,0.797,0.819,0.784,0.804,(6.1433)+(-0.0050)Ala+(0.0116)Pro+(-0.1347)Met+(0.0205)Orn+(0.0057)Lys+(-0.1311)Trp;0.795,0.828,0.756,0.735,0.770,0.843,0.716,0.766,(4.4111)+(0.0453)Ser+(-0.0226)Asn+(-0.1158)His+(-0.0313)Cit+(0.0088)Val+(-0.1036)Met;0.795,0.826,0.805,0.798,0.797,0.846,0.811,0.813,(3.8433)+(-0.0197)Asn+(0.0130)Gln+(-0.1449)His+(-0.0109)Arg+(-0.1111)Met+(0.0195)Leu;0.795,0.822,0.785,0.795,0.721,0.848,0.851,0.803,(4.4949)+(-0.1273)Asn+(0.0058)Gln+(-0.0159)Arg+(-0.0223)Tyr+(-0.0539)Val+(0.1650)Ile;0.795,0.821,0.737,0.733,0.694,0.822,0.774,0.756,(3.4308)+(-0.0948)Cit+(-0.0498)Tyr+(-0.0366)Val+(0.0435)Orn+(0.1770)Ile+(-0.0398)Leu;0.795,0.830,0.818,0.813,0.836,0.822,0.787,0.815,(7.3953)+(-0.0657)Cit+(0.0063)Arg+(0.0098)Pro+(0.0160)Tyr+(-0.1138)Met+(-0.1402)Trp;0.795,0.830,0.828,0.840,0.817,0.839,0.810,0.826,(5.4420)+(-0.1013)Asn+(0.0055)Gln+(0.0171)Thr+(-0.0049)Ala+(0.0119)Leu+(-0.1495)Trp;0.795,0.830,0.798,0.793,0.810,0.814,0.776,0.798,(6.68

44)+(0.0030)Gly+(-0.0703)Cit+(-0.0163)Val+(-0.0023)Lys+(0.0446)Leu+(-0.1553)Trp;0.795,0.828,0.839,0.856,0.825,0.846,0.816,0.836,(5.5241)+(-0.0838)Asn+(0.0059)Gln+(-0.0032)Ala+(-0.0028)Val+(0.0241)Orn+(-0.1302)Trp;0.795,0.827,0.785,0.786,0.773,0.774,0.812,0.786,(4.1099)+(-0.0018)Gly+(0.0029)Gln+(-0.0005)Pro+(-0.0252)Tyr+(0.0522)Ile+(-0.1651)Trp;0.795,0.823,0.776,0.763,0.764,0.835,0.793,0.789,(4.1759)+(0.0076)Gln+(-0.1517)His+(0.0058)Thr+(-0.0039)Ala+(0.0023)Val+(0.0205)Orn;0.795,0.817,0.723,0.718,0.673,0.824,0.766,0.745,(0.7168)+(0.0290)Ser+(-0.0391)Arg+(-0.0031)Pro+(-0.0424)Val+(0.2017)Ile+(-0.0446)Leu;0.795,0.828,0.796,0.789,0.782,0.815,0.831,0.804,(5.4778)+(-0.0077)Ala+(-0.0133)Arg+(-0.0042)Tyr+(0.0135)Orn+(0.0643)Ile+(-0.1511)Trp;0.795,0.825,0.787,0.772,0.778,0.842,0.803,0.799,(4.0010)+(0.0102)Gln+(-0.1531)His+(-0.0040)Ala+(-0.0184)Arg+(0.0229)Orn+(0.0128)Leu;0.795,0.824,0.824,0.836,0.834,0.844,0.759,0.818,(8.1934)+(-0.0337)Asn+(0.0034)Gly+(-0.0011)Ala+(-0.0605)Cit+(-0.0152)Met+(-0.1270)Trp;0.795,0.823,0.800,0.795,0.790,0.841,0.807,0.808,(4.2200)+(-0.0476)Asn+(0.0127)Gln+(-0.1465)His+(-0.0139)Arg+(-0.0108)Tyr+(0.0144)Leu;0.795,0.822,0.814,0.820,0.833,0.830,0.747,0.807,(7.7585)+(-0.0299)Asn+(0.0037)Gly+(-0.0672)Cit+(0.0055)Val+(-0.0364)Met+(-0.1385)Trp;0.795,0.818,0.768,0.766,0.696,0.844,0.868,0.794,(3.3365)+(-0.0002)Gly+(0.0012)Gln+(-0.0095)Ala+(-0.0240)Arg+(-0.0546)Val+(0.1801)Ile;0.795,0.820,0.783,0.774,0.768,0.838,0.800,0.795,(4.2111)+(-0.0005)Gly+(0.0086)Gln+(-0.1534)His+(0.0083)Thr+(-0.0037)Ala+(0.0043)Val;0.795,0.837,0.815,0.830,0.809,0.786,0.811,0.809,(4.1352)+(-0.0047)Ala+(-0.0138)Arg+(-0.0200)Tyr+(0.0025)Lys+(0.0971)Phe+(-0.1539)Trp;0.795,0.828,0.751,0.729,0.723,0.831,0.808,0.773,(-1.6020)+(0.0525)Ser+(-0.0053)Gly+(0.0002)Gln+(-0.0072)Ala+(-0.3077)Met+(0.0777)Ile;0.795,0.825,0.754,0.734,0.754,0.831,0.753,0.768,(4.6641)+(0.0474)Ser+(-0.0503)Asn+(-0.0042)Gly+(-0.1221)His+(-0.0090)Tyr+(0.00

48)Val;0.795,0.831,0.738,0.716,0.757,0.809,0.706,0.747,(-0.1343)+(0.0515)Ser+(-0.0565)Asn+(-0.0727)Cit+(0.0044)Pro+(-0.2907)Met+(0.0616)Ile;0.795,0.830,0.778,0.753,0.788,0.803,0.802,0.787,(4.2114)+(-0.1287)His+(-0.1905)Met+(0.0226)Orn+(0.0044)Lys+(-0.0005)Leu+(0.1056)Phe;0.795,0.830,0.723,0.680,0.726,0.798,0.779,0.746,(3.6563)+(0.0047)Gly+(-0.1483)His+(0.0157)Orn+(-0.0089)Lys+(0.0352)Ile+(0.0575)Phe;0.795,0.824,0.745,0.720,0.727,0.820,0.795,0.766,(5.0615)+(0.0031)Gly+(-0.1163)His+(-0.0033)Pro+(-0.0007)Lys+(0.1130)Ile+(-0.0440)Leu;0.795,0.822,0.762,0.748,0.755,0.817,0.776,0.774,(4.2061)+(0.0083)Gln+(-0.1580)His+(0.0132)Thr+(-0.0213)Tyr+(-0.0068)Lys+(0.0189)Leu;0.795,0.830,0.773,0.783,0.775,0.808,0.716,0.770,(3.4258)+(0.0260)Ser+(-0.0004)Gln+(-0.0134)Tyr+(-0.0010)Val+(0.0155)Orn+(-0.1471)Trp;0.795,0.835,0.755,0.737,0.730,0.842,0.795,0.776,(-0.5195)+(0.0494)Ser+(-0.0452)Asn+(-0.0070)Ala+(-0.2359)Met+(-0.0095)Lys+(0.0819)Ile;0.795,0.829,0.700,0.674,0.707,0.762,0.705,0.712,(-4.9577)+(0.0548)Ser+(-0.0015)Gln+(0.0047)Pro+(-0.4561)Met+(0.0500)Ile+(0.0898)Phe;0.795,0.829,0.749,0.731,0.755,0.797,0.753,0.759,(4.8352)+(-0.1248)His+(-0.0649)Cit+(-0.0490)Tyr+(0.0480)Orn+(-0.0037)Leu+(0.0963)Phe;0.795,0.827,0.747,0.729,0.731,0.784,0.802,0.761,(4.9016)+(-0.1339)His+(-0.0058)Arg+(-0.0477)Tyr+(-0.0013)Lys+(0.0397)Ile+(0.0807)Phe;0.795,0.835,0.742,0.733,0.715,0.841,0.752,0.760,(-0.3655)+(0.0400)Ser+(0.0024)Thr+(-0.3048)Met+(-0.0041)Lys+(0.1689)Ile+(-0.0723)Leu;0.795,0.827,0.749,0.729,0.736,0.789,0.801,0.764,(4.8507)+(-0.1288)His+(-0.0372)Cit+(-0.0000)Arg+(-0.0500)Tyr+(0.0414)Ile+(0.0828)Phe;0.795,0.826,0.834,0.832,0.849,0.836,0.805,0.830,(8.0455)+(-0.0315)Asn+(-0.0033)Ala+(-0.0671)Cit+(0.0171)Tyr+(0.0055)Val+(-0.1446)Trp;0.795,0.830,0.804,0.798,0.767,0.872,0.848,0.821,(4.8544)+(-0.0089)Ala+(-0.0729)Cit+(-0.0035)Tyr+(-0.1431)Met+(0.1837)Ile+(-0.0784)Leu;0.795,0.828,0.754,0.726,0.746,0.822,0.795,0.772,(5.7313)+(-0.1096)

His+(-0.0157)Arg+(-0.0042)Pro+(0.0288)Orn+(0.1186)Ile+(-0.0534)Leu;0.795,0.824,0.767,0.753,0.759,0.843,0.766,0.780,(5.0746)+(0.0465)Ser+(-0.0535)Asn+(-0.0043)Gly+(-0.1123)His+(-0.0013)Ala+(-0.0006)Tyr;0.795,0.834,0.808,0.809,0.799,0.826,0.813,0.812,(6.9390)+(-0.0795)Asn+(-0.0028)Tyr+(-0.0322)Val+(0.0330)Orn+(0.0564)Leu+(-0.1271)Trp;0.795,0.829,0.811,0.810,0.819,0.822,0.789,0.810,(8.8392)+(-0.0218)Asn+(-0.0729)His+(-0.0295)Cit+(0.0001)Arg+(0.0121)Lys+(-0.1068)Trp;0.795,0.828,0.794,0.799,0.811,0.799,0.743,0.788,(6.1159)+(-0.0021)Gly+(0.0252)Thr+(-0.2003)Met+(0.0115)Orn+(0.0143)Leu+(-0.1507)Trp;0.795,0.827,0.745,0.729,0.742,0.813,0.745,0.757,(4.3177)+(0.0043)Gly+(-0.1489)His+(0.0192)Thr+(-0.0049)Ala+(-0.0199)Arg+(0.0909)Phe;0.795,0.821,0.727,0.690,0.740,0.820,0.734,0.746,(3.6596)+(0.0458)Ser+(-0.0030)Gly+(-0.1416)His+(-0.0196)Cit+(-0.0102)Arg+(0.0193)Leu;0.795,0.834,0.806,0.803,0.801,0.830,0.810,0.811,(6.2878)+(-0.0024)Ala+(-0.0305)Val+(-0.1329)Met+(0.0323)Orn+(0.0623)Leu+(-0.1270)Trp;0.795,0.833,0.827,0.844,0.823,0.820,0.793,0.820,(5.9946)+(-0.1035)Asn+(-0.0026)Gly+(0.0060)Gln+(0.0180)Thr+(-0.0136)Tyr+(-0.1434)Trp;0.795,0.831,0.799,0.798,0.801,0.859,0.757,0.804,(4.6616)+(0.0098)Gln+(-0.1313)His+(0.0229)Thr+(-0.0362)Cit+(0.0092)Tyr+(-0.1808)Met;0.795,0.831,0.810,0.810,0.826,0.810,0.775,0.805,(7.1771)+(-0.0615)Cit+(0.0022)Arg+(0.0108)Pro+(-0.1165)Met+(0.0079)Lys+(-0.1416)Trp;0.795,0.831,0.761,0.762,0.766,0.797,0.727,0.763,(3.0665)+(0.0313)Ser+(0.0018)Thr+(-0.0102)Tyr+(-0.0093)Lys+(0.0168)Leu+(-0.1534)Trp;0.795,0.830,0.803,0.818,0.800,0.842,0.744,0.801,(3.6546)+(0.0287)Ser+(0.0021)Gln+(-0.0034)Ala+(-0.0180)Arg+(0.0056)Tyr+(-0.1430)Trp;0.795,0.830,0.799,0.793,0.781,0.819,0.839,0.808,(5.4350)+(0.0012)Gly+(-0.0077)Ala+(-0.0094)Arg+(-0.0026)Lys+(0.0704)Ile+(-0.1507)Trp;0.795,0.830,0.818,0.829,0.806,0.822,0.815,0.818,(4.6113)+(0.0055)Gln+(-0.0052)Ala+(0.0108)Pro+(-0.1524)Met+(0.0136)Leu+(-0.1390)Trp;0.795,0.8

30,0.798,0.809,0.789,0.837,0.762,0.799,(3.5855)+(0.0274)Ser+(0.0011)Gln+(-0.0037)Ala+(0.0027)Tyr+(-0.0034)Lys+(-0.1416)Trp;0.795,0.830,0.791,0.802,0.790,0.834,0.732,0.790,(3.9427)+(0.0318)Ser+(-0.0035)Ala+(-0.0157)Arg+(0.0037)Val+(-0.0001)Lys+(-0.1432)Trp;0.795,0.834,0.808,0.811,0.815,0.843,0.760,0.807,(8.6075)+(0.0040)Gly+(-0.0676)His+(-0.0405)Cit+(0.0069)Arg+(-0.0159)Met+(-0.0986)Trp;0.795,0.830,0.764,0.768,0.768,0.791,0.728,0.764,(2.7296)+(0.0289)Ser+(-0.0040)Thr+(-0.0154)Tyr+(0.0119)Orn+(0.0101)Leu+(-0.1548)Trp;0.795,0.822,0.778,0.766,0.763,0.838,0.801,0.792,(4.2390)+(0.0080)Gln+(-0.1430)His+(-0.0052)Ala+(0.0069)Pro+(0.0228)Orn+(-0.0022)Lys;0.795,0.826,0.733,0.697,0.742,0.795,0.766,0.750,(4.4167)+(-0.1539)His+(0.0159)Thr+(0.0192)Orn+(-0.0102)Lys+(0.0009)Leu+(0.0726)Phe;0.795,0.828,0.746,0.715,0.768,0.812,0.734,0.757,(6.0986)+(-0.1349)His+(0.0293)Thr+(0.0042)Pro+(-0.2113)Met+(0.0189)Orn+(0.0200)Leu;0.795,0.828,0.724,0.699,0.732,0.822,0.704,0.739,(3.8974)+(0.0332)Ser+(-0.1406)His+(0.0010)Thr+(-0.0186)Tyr+(0.0038)Val+(0.0254)Orn;0.795,0.822,0.746,0.716,0.736,0.824,0.791,0.767,(5.8493)+(-0.1345)His+(0.0139)Thr+(-0.0042)Ala+(-0.0235)Val+(0.0295)Orn+(0.0483)Leu;0.795,0.819,0.739,0.734,0.651,0.849,0.855,0.772,(0.3024)+(0.0204)Ser+(-0.0115)Ala+(-0.0418)Val+(0.0054)Orn+(0.1932)Ile+(-0.0332)Leu;0.795,0.829,0.778,0.775,0.758,0.805,0.807,0.786,(0.9580)+(-0.0173)Arg+(-0.2972)Met+(0.0058)Orn+(0.1768)Ile+(-0.0988)Leu+(0.1051)Phe;0.795,0.828,0.799,0.785,0.801,0.865,0.785,0.809,(4.6340)+(0.0095)Gln+(-0.1229)His+(-0.0029)Ala+(-0.0699)Cit+(-0.0908)Met+(0.0467)Orn;0.795,0.826,0.741,0.725,0.746,0.830,0.712,0.753,(4.7393)+(0.0390)Ser+(-0.0634)Asn+(-0.1262)His+(0.0092)Thr+(-0.0109)Tyr+(0.0045)Val;0.795,0.826,0.794,0.807,0.749,0.851,0.812,0.805,(3.0853)+(-0.0986)Asn+(0.0073)Gln+(-0.0822)Cit+(-0.0426)Tyr+(0.1582)Ile+(-0.0802)Leu;0.795,0.825,0.725,0.698,0.724,0.793,0.752,0.742,(3.5

678)+(0.0028)Gly+(-0.1521)His+(0.0103)Thr+(-0.0080)Val+(0.0205)Orn+(0.0827)Phe;0.795,0.823,0.737,0.716,0.735,0.835,0.727,0.753,(4.0538)+(0.0359)Ser+(-0.1386)His+(0.0044)Thr+(-0.0031)Ala+(-0.0087)Tyr+(0.0077)Val;0.795,0.823,0.740,0.721,0.742,0.825,0.728,0.754,(4.4983)+(0.0466)Ser+(-0.0051)Gly+(-0.1224)His+(-0.0150)Arg+(0.0093)Pro+(-0.0184)Tyr;0.795,0.823,0.758,0.748,0.735,0.810,0.792,0.772,(6.1353)+(-0.0994)His+(-0.0151)Arg+(-0.0310)Tyr+(0.0082)Lys+(0.1250)Ile+(-0.0547)Leu;0.795,0.833,0.803,0.796,0.817,0.844,0.765,0.805,(8.2432)+(0.0047)Gly+(-0.0765)His+(-0.0426)Cit+(0.0027)Arg+(0.0241)Tyr+(-0.1093)Trp;0.795,0.832,0.845,0.858,0.844,0.835,0.822,0.840,(4.9189)+(-0.0600)Asn+(0.0072)Gln+(0.0178)Tyr+(-0.1362)Met+(0.0071)Lys+(-0.1428)Trp;0.795,0.828,0.801,0.789,0.790,0.847,0.823,0.812,(3.7231)+(0.0112)Gln+(-0.1466)His+(-0.0021)Ala+(-0.1318)Met+(0.0015)Lys+(0.0222)Leu;0.795,0.830,0.819,0.837,0.812,0.812,0.792,0.813,(5.2357)+(-0.0882)Asn+(0.0056)Gln+(0.0047)Pro+(-0.0141)Tyr+(0.0170)Orn+(-0.1367)Trp;0.795,0.829,0.798,0.789,0.784,0.819,0.835,0.807,(5.5687)+(-0.0078)Ala+(-0.0116)Arg+(0.0143)Orn+(-0.0038)Lys+(0.0660)Ile+(-0.1494)Trp;0.795,0.829,0.798,0.809,0.796,0.821,0.754,0.795,(6.2027)+(0.0128)Thr+(-0.0071)Ala+(-0.0213)Arg+(0.0090)Pro+(0.0202)Orn+(-0.1455)Trp;0.795,0.820,0.770,0.766,0.700,0.847,0.871,0.796,(3.4640)+(0.0016)Gln+(-0.0092)Ala+(-0.0213)Arg+(-0.0531)Val+(-0.0055)Lys+(0.1804)Ile;0.795,0.830,0.727,0.695,0.727,0.800,0.761,0.746,(5.7753)+(-0.1364)His+(0.0164)Thr+(-0.0382)Tyr+(0.0240)Orn+(-0.0066)Lys+(0.0509)Ile;0.795,0.828,0.742,0.709,0.752,0.786,0.779,0.756,(4.7652)+(-0.0612)Asn+(-0.1467)His+(0.0182)Thr+(-0.0011)Pro+(0.0167)Orn+(0.0719)Phe;0.795,0.826,0.816,0.818,0.836,0.829,0.756,0.810,(7.5760)+(-0.0464)Asn+(0.0041)Gly+(-0.0727)Cit+(0.0136)Tyr+(0.0040)Val+(-0.1463)Trp;0.795,0.825,0.710,0.673,0.722,0.782,0.730,0.727,(3.6008)+(0.0049)Gly+(-0.1585)His+(0.0153)Thr+(-0.0203)Arg+(0.0313)Ile+(0.0626)Phe;0.

795,0.823,0.723,0.690,0.735,0.821,0.716,0.741,(3.7271)+(0.0430)Ser+(-0.1415)His+(-0.0105)Arg+(-0.0093)Tyr+(-0.0047)Lys+(0.0238)Leu;0.795,0.823,0.741,0.716,0.752,0.830,0.721,0.755,(4.4260)+(0.0429)Ser+(-0.0042)Gly+(-0.1377)His+(0.0076)Thr+(-0.0168)Arg+(0.0039)Val;0.795,0.834,0.783,0.779,0.793,0.798,0.760,0.782,(3.8390)+(0.0404)Ser+(-0.0080)Gly+(0.0051)Thr+(-0.0208)Arg+(0.0104)Leu+(-0.1603)Trp;0.795,0.831,0.799,0.786,0.806,0.801,0.817,0.803,(5.6657)+(-0.0032)Arg+(0.0023)Pro+(0.0140)Tyr+(-0.1878)Met+(0.0624)Ile+(-0.1461)Trp;0.795,0.830,0.816,0.821,0.834,0.843,0.747,0.811,(7.4352)+(0.0181)Thr+(-0.0037)Ala+(-0.0674)Cit+(-0.0053)Arg+(0.0047)Tyr+(-0.1507)Trp;0.795,0.829,0.778,0.755,0.788,0.802,0.800,0.786,(4.2792)+(-0.1282)His+(-0.0024)Arg+(-0.1885)Met+(0.0229)Orn+(0.0047)Lys+(0.1045)Phe;0.795,0.829,0.794,0.784,0.797,0.794,0.811,0.797,(5.6997)+(-0.0040)Arg+(0.0031)Pro+(-0.1734)Met+(0.0028)Lys+(0.0608)Ile+(-0.1451)Trp;0.795,0.829,0.789,0.780,0.793,0.799,0.796,0.792,(5.4052)+(0.0016)Gly+(-0.0052)Arg+(-0.1673)Met+(0.0107)Orn+(0.0630)Ile+(-0.1424)Trp;0.795,0.827,0.759,0.755,0.748,0.812,0.756,0.768,(4.4876)+(0.0059)Gly+(-0.1277)His+(-0.0037)Ala+(-0.0442)Cit+(-0.0289)Tyr+(0.1108)Phe;0.795,0.826,0.738,0.738,0.650,0.844,0.845,0.769,(1.0435)+(0.0186)Ser+(-0.0103)Ala+(-0.0286)Tyr+(-0.0501)Val+(0.0126)Orn+(0.1668)Ile;0.795,0.823,0.732,0.704,0.726,0.817,0.759,0.752,(4.8443)+(0.0043)Gly+(-0.1108)His+(0.0059)Thr+(-0.0506)Cit+(0.1108)Ile+(-0.0436)Leu;0.795,0.821,0.751,0.730,0.717,0.819,0.825,0.773,(5.9160)+(-0.0877)His+(-0.0141)Arg+(-0.0009)Pro+(-0.0340)Val+(0.1460)Ile+(-0.0123)Leu;0.795,0.821,0.731,0.701,0.738,0.823,0.732,0.748,(3.9930)+(0.0419)Ser+(-0.0037)Gly+(-0.1318)His+(0.0021)Thr+(-0.0276)Cit+(0.0063)Pro;0.795,0.829,0.848,0.866,0.838,0.844,0.821,0.842,(5.4007)+(-0.0550)Asn+(-0.0006)Gly+(0.0077)Gln+(-0.0011)Ala+(-0.0829)Met+(-0.1306)Trp;0.795,0.825,0.821,0.819,0.831,0.821,0.806,0.819,(7.7670)+(-0.0328)Asn+(-0.0035)

Ala+(-0.0650)Cit+(0.0030)Lys+(0.0190)Leu+(-0.1474)Trp;0.795,0.824,0.768,0.745,0.767,0.826,0.790,0.782,(3.7526)+(0.0003)Gly+(0.0087)Gln+(-0.1590)His+(0.0188)Orn+(-0.0065)Lys+(0.0130)Leu;0.795,0.823,0.821,0.832,0.830,0.839,0.762,0.816,(7.8061)+(-0.0507)Asn+(0.0033)Gly+(-0.0019)Ala+(-0.0622)Cit+(0.0079)Lys+(-0.1350)Trp;0.795,0.822,0.755,0.739,0.708,0.838,0.837,0.781,(5.2385)+(-0.1604)Asn+(0.0148)Thr+(-0.0597)Val+(0.0281)Orn+(-0.0059)Lys+(0.1694)Ile;0.795,0.820,0.789,0.780,0.774,0.831,0.810,0.799,(4.1998)+(-0.0578)Asn+(0.0112)Gln+(-0.1444)His+(0.0039)Pro+(-0.0175)Tyr+(0.0128)Leu;0.795,0.834,0.780,0.778,0.780,0.804,0.771,0.783,(5.3727)+(0.0113)Thr+(-0.0289)Val+(0.0200)Orn+(-0.0090)Lys+(0.0545)Leu+(-0.1534)Trp;0.795,0.832,0.779,0.791,0.789,0.821,0.698,0.775,(3.8421)+(0.0294)Ser+(-0.0216)Arg+(-0.0070)Tyr+(-0.0013)Val+(0.0219)Orn+(-0.1435)Trp;0.795,0.829,0.734,0.735,0.740,0.774,0.693,0.735,(-2.8791)+(0.0560)Ser+(-0.0819)Asn+(0.0093)Pro+(-0.3313)Met+(-0.0078)Lys+(0.1122)Phe;0.795,0.829,0.813,0.805,0.821,0.833,0.801,0.815,(8.5218)+(-0.0773)His+(-0.0017)Ala+(-0.0329)Cit+(0.0179)Tyr+(0.0095)Lys+(-0.1116)Trp;0.795,0.827,0.824,0.830,0.838,0.828,0.779,0.819,(5.2979)+(0.0059)Gln+(-0.0790)Cit+(-0.0022)Arg+(0.0049)Val+(-0.0027)Lys+(-0.1603)Trp;0.795,0.826,0.789,0.770,0.785,0.840,0.811,0.802,(4.0763)+(-0.0592)Asn+(0.0105)Gln+(-0.1494)His+(0.0188)Orn+(-0.0028)Lys+(0.0113)Leu;0.795,0.823,0.769,0.753,0.766,0.824,0.777,0.780,(4.2854)+(-0.0009)Gly+(0.0079)Gln+(-0.1529)His+(0.0071)Thr+(0.0215)Orn+(-0.0054)Lys;0.795,0.831,0.779,0.779,0.771,0.820,0.766,0.784,(2.9740)+(0.0278)Ser+(-0.0057)Ala+(-0.0063)Tyr+(0.0131)Orn+(0.0150)Leu+(-0.1534)Trp;0.795,0.823,0.796,0.786,0.789,0.838,0.805,0.805,(4.0364)+(-0.0511)Asn+(0.0126)Gln+(-0.1491)His+(-0.0150)Arg+(0.0028)Pro+(0.0111)Leu;0.795,0.829,0.754,0.722,0.764,0.822,0.771,0.770,(5.4783)+(0.0071)Gly+(-0.1099)His+(-0.0513)Cit+(0.0093)Arg+(-0.1673)Met+(0.0706)Ile;0.795,0.823,0.760,0.737,0.

741,0.842,0.800,0.780,(5.6808)+(0.0059)Gly+(-0.1101)His+(-0.0074)Ala+(-0.0548)Cit+(-0.0085)Tyr+(0.0700)Ile;0.795,0.827,0.799,0.802,0.746,0.864,0.855,0.817,(2.0206)+(0.0003)Gly+(0.0041)Gln+(-0.0079)Ala+(-0.2248)Met+(0.1805)Ile+(-0.0810)Leu;0.795,0.832,0.799,0.800,0.780,0.816,0.824,0.805,(6.3413)+(-0.0067)Ala+(-0.0096)Arg+(0.0113)Pro+(-0.0245)Val+(0.0516)Leu+(-0.1402)Trp;0.795,0.830,0.755,0.733,0.766,0.840,0.727,0.766,(3.9991)+(0.0455)Ser+(-0.0214)Asn+(-0.1231)His+(0.0131)Tyr+(0.0074)Val+(-0.1298)Met;0.795,0.828,0.795,0.789,0.784,0.847,0.795,0.804,(4.1853)+(0.0093)Gln+(-0.1374)His+(-0.0014)Ala+(-0.1088)Met+(0.0255)Orn+(0.0031)Lys;0.795,0.826,0.819,0.825,0.835,0.824,0.768,0.813,(5.1691)+(0.0008)Gly+(0.0056)Gln+(-0.0780)Cit+(-0.0041)Arg+(0.0042)Val+(-0.1615)Trp;0.795,0.825,0.755,0.734,0.767,0.825,0.737,0.766,(6.3245)+(0.0027)Gly+(-0.1342)His+(0.0317)Thr+(-0.0024)Ala+(-0.1972)Met+(0.0282)Leu;0.795,0.825,0.800,0.815,0.803,0.800,0.753,0.793,(7.2915)+(-0.0785)Asn+(-0.0013)Gly+(0.0186)Thr+(0.0055)Pro+(-0.0161)Tyr+(-0.1396)Trp;0.795,0.825,0.785,0.772,0.777,0.831,0.801,0.795,(4.2748)+(-0.0580)Asn+(0.0102)Gln+(-0.1450)His+(-0.0183)Tyr+(0.0214)Orn+(0.0119)Leu;0.795,0.825,0.818,0.811,0.823,0.845,0.807,0.821,(8.7551)+(0.0000)Asn+(-0.0765)His+(-0.0007)Ala+(0.0286)Tyr+(-0.0474)Met+(-0.1015)Trp;0.795,0.819,0.722,0.717,0.672,0.824,0.766,0.744,(0.5949)+(0.0313)Ser+(-0.0053)Thr+(-0.0370)Arg+(-0.0412)Val+(0.1969)Ile+(-0.0453)Leu;0.795,0.819,0.711,0.693,0.666,0.820,0.773,0.738,(1.5915)+(0.0347)Ser+(-0.0024)Gln+(-0.0278)Arg+(-0.0533)Val+(-0.0131)Lys+(0.1697)Ile;0.795,0.823,0.773,0.759,0.757,0.835,0.795,0.787,(4.1861)+(0.0074)Gln+(-0.1465)His+(0.0045)Thr+(-0.0054)Ala+(0.0065)Pro+(0.0202)Orn;0.795,0.831,0.761,0.749,0.745,0.802,0.795,0.773,(4.7463)+(-0.1325)His+(-0.0033)Ala+(-0.0404)Tyr+(0.0300)Orn+(-0.0003)Lys+(0.0922)Phe;0.795,0.830,0.756,0.746,0.748,0.786,0.779,0.765,(4.9943)+(-0.0297)Asn+(-0.1303)His+(-0.0464)Tyr+(0.0297)

Orn+(0.0010)Lys+(0.0915)Phe;0.795,0.829,0.835,0.829,0.854,0.839,0.806,0.832,(7.6022)+(-0.0030)Ala+(-0.0652)Cit+(0.0269)Tyr+(0.0063)Val+(-0.0767)Met+(-0.1450)Trp;0.795,0.828,0.797,0.789,0.788,0.851,0.798,0.807,(4.2312)+(0.0096)Gln+(-0.1371)His+(-0.0015)Ala+(0.0056)Tyr+(-0.1081)Met+(0.0260)Orn;0.795,0.831,0.737,0.718,0.706,0.827,0.787,0.759,(-1.6783)+(0.0459)Ser+(-0.0098)Ala+(0.0101)Pro+(0.0028)Tyr+(-0.3281)Met+(0.0724)Ile;0.795,0.832,0.773,0.757,0.775,0.796,0.792,0.780,(4.3540)+(-0.1286)His+(-0.0249)Tyr+(-0.1597)Met+(0.0248)Orn+(0.0053)Lys+(0.1112)Phe;0.795,0.829,0.739,0.728,0.700,0.817,0.791,0.759,(-1.5407)+(0.0429)Ser+(-0.1935)Asn+(0.0009)Gln+(0.1436)Ile+(-0.0905)Leu+(0.0754)Phe;0.795,0.828,0.759,0.738,0.765,0.838,0.746,0.772,(4.2976)+(0.0492)Ser+(-0.0226)Asn+(-0.0036)Gly+(-0.

1194)His+(0.0074)Val+(-0.1031)Met;0.795,0.826,0.780,0.752,0.766,0.835,0.845,0.799,(6.2973)+(-0.1036)His+(-0.0064)Ala+(0.0033)Arg+(0.0062)Pro+(-0.1380)Met+(0.0647)Ile;0.795,0.830,0.816,0.833,0.809,0.811,0.789,0.810,(4.6242)+(0.0053)Gln+(0.0098)Pro+(-0.0030)Val+(-0.1807)Met+(0.0072)Lys+(-0.1378)Trp;0.795,0.827,0.813,0.813,0.828,0.810,0.782,0.808,(7.8013)+(-0.0499)Asn+(-0.0655)Cit+(0.0086)Pro+(-0.0008)Tyr+(0.0058)Lys+(-0.1453)Trp;0.795,0.820,0.767,0.771,0.692,0.844,0.859,0.792,(3.6914)+(0.0015)Gln+(-0.0086)Ala+(-0.0226)Arg+(-0.0203)Tyr+(-0.0525)Val+(0.1783)Ile;0.795,0.832,0.780,0.770,0.782,0.789,0.792,0.783,(2.9924)+(0.0397)Ser+(-0.0080)Gly+(0.0000)Gln+(-0.0020)Thr+(0.0097)Leu+(-0.1608)Trp;0.795,0.831,0.805,0.805,0.798,0.802,0.824,0.807,(6.9983)+(-0.0798)Asn+(0.0071)Pro+(-0.0287)Val+(0.0058)Lys+(0.0499)Leu+(-0.1346)Trp;0.795,0.831,0.747,0.756,0.715,0.835,0.729,0.759,(1.8947)+(0.0402)Ser+(-0.0967)Asn+(-0.0272)Arg+(-0.0334)Tyr+(0.1645)Ile+(-0.0822)Leu;0.795,0.829,0.795,0.783,0.802,0.805,0.806,0.799,(5.2296)+(0.0025)Gly+(-0.0039)Arg+(0.0183)Tyr+(-0.1956)Met+(0.0662)Ile+(-0.1461)Trp;0.795,0.820

,0.763,0.755,0.716,0.845,0.824,0.785,(5.2839)+(-0.1243)Asn+(0.0052)Gl
y+(-0.0560)Cit+(-0.0530)Val+(-0.0002)Lys+(0.1669)Ile;0.795,0.832,0.78
6,0.789,0.784,0.825,0.755,0.788,(3.3884)+(0.0327)Ser+(-0.0048)Ala+(-0
.0165)Arg+(0.0032)Tyr+(0.0177)Leu+(-0.1524)Trp;0.795,0.829,0.805,0.80
7,0.754,0.867,0.861,0.822,(2.2901)+(-0.0284)Asn+(0.0050)Gln+(-0.0077)
Ala+(-0.1998)Met+(0.1770)Ile+(-0.0804)Leu;0.795,0.828,0.750,0.716,0.7
58,0.823,0.774,0.768,(5.2655)+(0.0051)Gly+(-0.1239)His+(-0.1672)Met+(
0.0193)Orn+(0.0022)Lys+(0.0609)Ile;0.795,0.827,0.768,0.767,0.762,0.76
6,0.788,0.770,(4.9543)+(-0.0023)Gly+(0.0093)Thr+(-0.0306)Tyr+(0.0032)
Orn+(0.0509)Ile+(-0.1648)Trp;0.795,0.825,0.807,0.797,0.823,0.819,0.78
8,0.807,(8.9110)+(0.0068)Asn+(-0.0757)His+(-0.0370)Cit+(0.0097)Val+(-
0.0165)Met+(-0.1111)Trp;0.795,0.824,0.793,0.786,0.791,0.844,0.778,0.8
00,(4.3988)+(-0.0517)Asn+(0.0009)Gly+(0.0113)Gln+(-0.1410)His+(-0.017
5)Arg+(0.0257)Orn;0.795,0.823,0.748,0.733,0.757,0.842,0.703,0.759,(5.
1515)+(0.0392)Ser+(-0.0715)Asn+(-0.1155)His+(0.0113)Thr+(-0.0340)Cit+
(0.0011)Lys;0.795,0.831,0.820,0.840,0.817,0.820,0.776,0.813,(5.6913)+
(-0.1073)Asn+(0.0057)Gln+(0.0160)Thr+(-0.0112)Tyr+(0.0011)Lys+(-0.143
2)Trp;0.795,0.827,0.824,0.830,0.837,0.827,0.779,0.818,(5.3024)+(0.005
8)Gln+(-0.0803)Cit+(-0.0013)Tyr+(0.0051)Val+(-0.0032)Lys+(-0.1601)Trp
;0.795,0.827,0.750,0.737,0.758,0.842,0.698,0.759,(5.3655)+(0.0386)Ser
+(-0.0694)Asn+(-0.1127)His+(0.0130)Thr+(-0.0343)Cit+(-0.0068)Tyr;0.79
5,0.826,0.813,0.805,0.813,0.822,0.824,0.816,(7.0248)+(-0.0042)Ala+(-0
.0673)Cit+(0.0058)Arg+(-0.0154)Val+(0.0463)Leu+(-0.1513)Trp;0.795,0.8
26,0.730,0.695,0.757,0.835,0.686,0.743,(4.0634)+(0.0360)Ser+(-0.1314)
His+(-0.0547)Cit+(-0.0106)Arg+(0.0016)Val+(0.0413)Orn;0.795,0.825,0.7
67,0.788,0.714,0.787,0.807,0.774,(2.2525)+(-0.0882)Asn+(-0.0018)Pro+(
-0.0691)Tyr+(0.1600)Ile+(-0.0967)Leu+(0.0970)Phe;0.795,0.825,0.784,0.
771,0.779,0.834,0.791,0.794,(4.2051)+(-0.0659)Asn+(0.0010)Gly+(0.0099

)Gln+(-0.1423)His+(0.0033)Pro+(0.0204)Orn;0.795,0.823,0.732,0.707,0.723,0.796,0.771,0.749,(5.9731)+(-0.1338)His+(0.0184)Thr+(-0.0011)Pro+(-0.0334)Tyr+(-0.0052)Lys+(0.0561)Ile;0.795,0.822,0.722,0.697,0.721,0.799,0.735,0.738,(5.4965)+(0.0032)Gly+(-0.1288)His+(0.0156)Thr+(-0.0440)Cit+(-0.0330)Tyr+(0.0562)Ile;0.795,0.822,0.731,0.720,0.691,0.817,0.782,0.753,(3.8862)+(-0.0017)Gln+(-0.0903)Cit+(-0.0490)Tyr+(-0.0496)Val+(0.0473)Orn+(0.1494)Ile;0.795,0.821,0.741,0.716,0.745,0.845,0.722,0.757,(4.1662)+(0.0376)Ser+(-0.1332)His+(0.0060)Thr+(-0.0043)Ala+(-0.0409)Cit+(0.0087)Val;0.795,0.835,0.721,0.707,0.729,0.781,0.700,0.729,(-4.7981)+(0.0550)Ser+(0.0000)Gln+(-0.0193)Arg+(-0.4237)Met+(0.0555)Ile+(0.0927)Phe;0.795,0.823,0.756,0.753,0.673,0.828,0.886,0.785,(1.8060)+(-0.0020)Gln+(-0.0111)Ala+(-0.0434)Val+(0.1956)Ile+(-0.0386)Leu+(0.0486)Phe;0.795,0.832,0.796,0.799,0.790,0.802,0.797,0.797,(4.7783)+(0.0021)Gln+(-0.0264)Val+(0.0218)Orn+(-0.0064)Lys+(0.0495)Leu+(-0.1508)Trp;0.795,0.823,0.765,0.747,0.770,0.826,0.760,0.776,(3.8435)+(0.0096)Gln+(-0.1641)His+(0.0109)Thr+(-0.0242)Arg+(0.0164)Orn+(0.0097)Leu;0.795,0.822,0.777,0.764,0.762,0.836,0.801,0.791,(4.1022)+(0.0079)Gln+(-0.1458)His+(-0.0054)Ala+(0.0067)Pro+(0.0009)Val+(0.0211)Orn;0.795,0.824,0.773,0.751,0.780,0.789,0.806,0.782,(4.1390)+(0.0225)Asn+(-0.1242)His+(0.0010)Arg+(0.0065)Pro+(-0.2209)Met+(0.1151)Phe;0.795,0.831,0.747,0.721,0.735,0.817,0.793,0.766,(4.2659)+(-0.1488)His+(0.0131)Thr+(-0.0055)Ala+(0.0183)Orn+(0.0017)Leu+(0.0717)Phe;0.795,0.829,0.762,0.733,0.745,0.831,0.823,0.783,(6.1048)+(-0.1218)His+(-0.0057)Ala+(-0.0219)Tyr+(0.0279)Orn+(-0.0024)Lys+(0.0559)Ile;0.795,0.826,0.793,0.783,0.798,0.799,0.805,0.796,(5.6163)+(-0.0053)Arg+(-0.1653)Met+(0.0114)Orn+(0.0012)Lys+(0.0611)Ile+(-0.1438)Trp;0.795,0.825,0.756,0.736,0.760,0.834,0.745,0.769,(4.7464)+(0.0482)Ser+(-0.0448)Asn+(-0.0038)Gly+(-0.1227)His+(-0.0101)Arg+(0.0042)Val;0.795,0.825,0.815,0.814,0.833,0.833,0.769

,0.812,(6.8859)+(0.0032)Gly+(-0.0044)Ala+(-0.0773)Cit+(0.0155)Tyr+(0.0072)Val+(-0.1529)Trp;0.795,0.821,0.724,0.687,0.741,0.826,0.718,0.743,(3.7185)+(0.0436)Ser+(-0.1384)His+(-0.0285)Cit+(-0.0049)Arg+(-0.0078)Lys+(0.0246)Leu;0.795,0.832,0.750,0.767,0.756,0.797,0.660,0.745,(-2.8007)+(0.0391)Ser+(0.0193)Thr+(-0.0131)Val+(-0.3975)Met+(-0.0070)Lys+(0.1371)Phe;0.795,0.831,0.803,0.802,0.797,0.809,0.814,0.806,(6.9263)+(-0.0715)Asn+(0.0014)Gly+(0.0070)Pro+(-0.0282)Val+(0.0524)Leu+(-0.1320)Trp;0.795,0.830,0.707,0.718,0.660,0.770,0.732,0.720,(-1.6278)+(0.0294)Ser+(-0.0747)Tyr+(-0.0185)Lys+(0.1584)Ile+(-0.0899)Leu+(0.0925)Phe;0.795,0.829,0.774,0.758,0.777,0.801,0.790,0.782,(4.5849)+(-0.1237)His+(-0.0017)Arg+(-0.0237)Tyr+(-0.1446)Met+(0.0277)Orn+(0.1101)Phe;0.795,0.829,0.802,0.808,0.803,0.815,0.772,0.800,(3.7312)+(0.0396)Ser+(-0.0083)Gly+(0.0022)Gln+(-0.0198)Arg+(0.0006)Val+(-0.1500)Trp;0.795,0.826,0.757,0.734,0.732,0.831,0.814,0.778,(5.6703)+(0.0038)Gly+(-0.1224)His+(-0.0059)Ala+(-0.0129)Tyr+(-0.0008)Lys+(0.0630)Ile;0.795,0.824,0.761,0.749,0.739,0.812,0.802,0.776,(6.3840)+(-0.0075)Asn+(-0.0946)His+(-0.0090)Arg+(-0.0256)Tyr+(0.1216)Ile+(-0.0498)Leu;0.795,0.821,0.769,0.756,0.768,0.825,0.766,0.779,(3.8310)+(0.0102)Gln+(-0.1647)His+(0.0125)Thr+(-0.0237)Arg+(0.0014)Pro+(0.0117)Leu;0.795,0.832,0.770,0.772,0.784,0.803,0.706,0.767,(3.2002)+(0.0305)Ser+(0.0009)Thr+(-0.0231)Arg+(0.0151)Orn+(0.0087)Leu+(-0.1575)Trp;0.795,0.831,0.731,0.736,0.771,0.775,0.601,0.721,(-2.8362)+(0.0455)Ser+(0.0215)Thr+(-0.0798)Cit+(-0.0124)Arg+(-0.4319)Met+(0.1274)Phe;0.795,0.827,0.840,0.849,0.844,0.852,0.801,0.836,(5.5572)+(0.0060)Gln+(-0.0033)Ala+(-0.0707)Cit+(-0.0032)Arg+(0.0090)Tyr+(-0.1493)Trp;0.795,0.825,0.749,0.726,0.760,0.785,0.762,0.758,(5.4050)+(-0.0492)Asn+(-0.1440)His+(0.0249)Thr+(-0.0136)Arg+(-0.0040)Lys+(0.0823)Phe;0.795,0.824,0.824,0.833,0.831,0.845,0.768,0.820,(8.0217)+(-0.0457)Asn+(0.0034)Gly+(-0.0017)Ala+(-0.0687)Cit+(0.0100)A

rg+(-0.1298)Trp;0.795,0.823,0.792,0.794,0.777,0.837,0.783,0.798,(4.9771)+(-0.0780)Asn+(0.0100)Gln+(-0.1365)His+(0.0151)Thr+(-0.0143)Tyr+(0.0012)Lys;0.795,0.823,0.801,0.787,0.796,0.841,0.819,0.811,(4.1606)+(-0.0605)Asn+(0.0125)Gln+(-0.1422)His+(-0.0398)Cit+(-0.0022)Lys+(0.0156)Leu;0.795,0.821,0.793,0.784,0.778,0.845,0.807,0.804,(3.8811)+(0.0010)Gly+(0.0110)Gln+(-0.1540)His+(-0.0035)Ala+(-0.0163)Arg+(0.0167)Leu;0.795,0.819,0.718,0.720,0.664,0.819,0.756,0.740,(1.5534)+(0.0246)Ser+(0.0041)Thr+(-0.0356)Arg+(-0.0338)Tyr+(-0.0528)Val+(0.1632)Ile;0.795,0.831,0.775,0.785,0.779,0.813,0.713,0.772,(3.4302)+(0.0281)Ser+(-0.0105)Tyr+(0.0004)Val+(0.0173)Orn+(-0.0065)Lys+(-0.1435)Trp;0.795,0.828,0.811,0.817,0.802,0.821,0.808,0.812,(6.5859)+(-0.0540)Asn+(-0.0064)Ala+(0.0087)Pro+(0.0205)Orn+(0.0069)Leu+(-0.1349)Trp;0.795,0.821,0.777,0.764,0.761,0.836,0.801,0.790,(4.1456)+(0.0000)Gly+(0.0078)Gln+(-0.1446)His+(-0.0053)Ala+(0.0069)Pro+(0.0217)Orn;0.795,0.828,0.787,0.768,0.789,0.809,0.819,0.796,(4.3259)+(0.0144)Asn+(-0.1283)His+(-0.0020)Ala+(-0.1977)Met+(0.0076)Lys+(0.1169)Phe;0.795,0.825,0.749,0.745,0.723,0.799,0.777,0.761,(4.3210)+(0.0040)Gly+(-0.1325)His+(-0.0049)Ala+(0.0079)Pro+(-0.0356)Tyr+(0.0989)Phe;0.795,0.834,0.744,0.735,0.715,0.842,0.758,0.763,(-0.7310)+(0.0398)Ser+(0.0005)Gln+(0.0026)Tyr+(-0.3169)Met+(0.1706)Ile+(-0.0753)Leu;0.795,0.826,0.762,0.726,0.750,0.833,0.828,0.784,(5.8960)+(-0.1239)His+(-0.0074)Ala+(-0.0084)Arg+(0.0034)Pro+(0.0244)Orn+(0.0492)Ile;0.795,0.823,0.716,0.689,0.729,0.815,0.691,0.731,(3.9518)+(0.0383)Ser+(-0.1463)His+(0.0100)Thr+(-0.0166)Arg+(-0.0180)Tyr+(0.0213)Leu;0.795,0.822,0.753,0.740,0.740,0.814,0.772,0.766,(4.2921)+(0.0055)Gly+(-0.1361)His+(-0.0062)Ala+(-0.0122)Arg+(0.0071)Pro+(0.0877)Phe;0.795,0.821,0.725,0.693,0.743,0.825,0.702,0.740,(3.8802)+(0.0405)Ser+(-0.1328)His+(-0.0344)Cit+(0.0058)Pro+(0.0055)Val+(-0.0056)Lys;0.795,0.821,0.741,0.717,0.730,0.825,0.770,0.760,(5.0510)+(0.0049)Gly

+(-0.1039)His+(-0.0500)Cit+(-0.0032)Pro+(0.1222)Ile+(-0.0477)Leu;0.795,0.817,0.768,0.774,0.696,0.840,0.850,0.790,(4.4383)+(-0.0081)Ala+(-0.0209)Arg+(-0.0217)Tyr+(-0.0400)Val+(0.2046)Ile+(-0.0379)Leu;0.795,0.819,0.757,0.757,0.676,0.832,0.870,0.784,(3.5232)+(-0.0034)Gly+(-0.0091)Ala+(-0.0341)Tyr+(-0.0520)Val+(0.0226)Orn+(0.1681)Ile;0.795,0.829,0.813,0.821,0.804,0.822,0.803,0.813,(6.6766)+(-0.0613)Asn+(-0.0061)Ala+(0.0093)Pro+(0.0209)Orn+(0.0037)Lys+(-0.1329)Trp;0.795,0.824,0.794,0.792,0.818,0.807,0.741,0.790,(6.6486)+(0.0026)Gly+(-0.0783)Cit+(0.0079)Pro+(0.0023)Val+(0.0002)Lys+(-0.1555)Trp;0.795,0.831,0.738,0.745,0.748,0.771,0.677,0.735,(-3.0016)+(0.0572)Ser+(-0.0788)Asn+(-0.0151)Arg+(0.0094)Pro+(-0.3409)Met+(0.1112)Phe;0.795,0.825,0.762,0.785,0.709,0.779,0.799,0.768,(2.1169)+(-0.0930)Asn+(0.0011)Gly+(-0.0692)Tyr+(0.1564)Ile+(-0.0957)Leu+(0.0964)Phe;0.795,0.829,0.755,0.749,0.747,0.792,0.760,0.762,(4.9242)+(-0.1261)His+(-0.0118)Arg+(-0.0423)Tyr+(-0.0073)Val+(0.0359)Orn+(0.1025)Phe;0.795,0.829,0.765,0.784,0.747,0.800,0.726,0.764,(-1.9965)+(0.0520)Ser+(-0.0984)Asn+(-0.0030)Ala+(-0.0204)Tyr+(-0.2454)Met+(0.1161)Phe;0.795,0.835,0.743,0.733,0.714,0.841,0.756,0.761,(-0.6132)+(0.0407)Ser+(0.0030)Tyr+(-0.3146)Met+(-0.0014)Orn+(0.1711)Ile+(-0.0751)Leu;0.795,0.831,0.795,0.797,0.745,0.863,0.844,0.813,(2.0152)+(0.0036)Gln+(0.0092)Thr+(-0.0079)Ala+(-0.2529)Met+(0.1775)Ile+(-0.0790)Leu;0.795,0.822,0.748

,0.727,0.715,0.817,0.826,0.771,(5.8794)+(-0.0920)His+(-0.0146)Arg+(-0.0004)Pro+(-0.0376)Val+(0.0018)Lys+(0.1355)Ile;0.795,0.822,0.763,0.758,0.716,0.846,0.819,0.785,(5.1566)+(-0.1178)Asn+(0.0053)Gly+(-0.0585)Cit+(-0.0464)Val+(0.1798)Ile+(-0.0199)Leu;0.795,0.829,0.796,0.781,0.798,0.848,0.792,0.805,(3.5368)+(0.0027)Gly+(0.0116)Gln+(-0.1411)His+(-0.0409)Cit+(-0.1433)Met+(0.0236)Leu;0.795,0.824,0.783,0.775,0.780,0.844,0.766,0.791,(4.5480)+(0.0092)Gln+(-0.1489)His+(0.0113)Thr+(-0.0032

)Ala+(-0.0236)Arg+(0.0243)Orn;0.795,0.821,0.748,0.728,0.715,0.816,0.820,0.770,(5.8083)+(-0.0895)His+(-0.0162)Arg+(-0.0340)Val+(0.0029)Lys+(0.1448)Ile+(-0.0136)Leu;0.795,0.819,0.764,0.755,0.711,0.843,0.842,0.788,(4.4170)+(-0.1837)Asn+(0.0027)Gln+(0.0122)Thr+(-0.0601)Val+(0.0235)Orn+(0.1659)Ile;0.795,0.833,0.778,0.789,0.788,0.819,0.698,0.774,(3.7853)+(0.0302)Ser+(-0.0205)Arg+(-0.0069)Tyr+(0.0215)Orn+(-0.0020)Lys+(-0.1436)Trp;0.795,0.830,0.774,0.758,0.778,0.800,0.792,0.782,(4.5325)+(-0.1245)His+(-0.0234)Tyr+(-0.1483)Met+(0.0271)Orn+(0.0008)Leu+(0.1098)Phe;0.795,0.825,0.814,0.827,0.805,0.821,0.792,0.811,(7.1838)+(-0.0261)Asn+(0.0013)Gly+(-0.0043)Ala+(0.0126)Pro+(-0.0850)Met+(-0.1220)Trp;0.795,0.825,0.771,0.758,0.767,0.850,0.756,0.783,(4.9931)+(0.0476)Ser+(-0.0350)Asn+(-0.0043)Gly+(-0.1070)His+(0.0000)Ala+(-0.0705)Met;0.795,0.819,0.760,0.755,0.688,0.838,0.865,0.787,(3.7574)+(0.0000)Gly+(-0.0108)Ala+(-0.0237)Arg+(0.0070)Pro+(-0.0550)Val+(0.1769)Ile;0.795,0.834,0.754,0.749,0.764,0.780,0.723,0.754,(2.7149)+(0.0286)Ser+(-0.0012)Gln+(0.0031)Pro+(0.0064)Orn+(0.0071)Leu+(-0.1626)Trp;0.795,0.831,0.781,0.780,0.771,0.820,0.775,0.787,(2.9525)+(0.0288)Ser+(0.0003)Gln+(-0.0054)Ala+(-0.0030)Tyr+(0.0172)Leu+(-0.1546)Trp;0.795,0.829,0.810,0.822,0.811,0.809,0.776,0.804,(6.7854)+(-0.0809)Asn+(0.0063)Pro+(-0.0078)Val+(0.0243)Orn+(0.0058)Lys+(-0.1287)Trp;0.795,0.829,0.800,0.806,0.810,0.810,0.757,0.796,(6.3548)+(-0.0016)Gly+(0.0276)Thr+(-0.0028)Ala+(-0.1847)Met+(0.0189)Leu+(-0.1497)Trp;0.795,0.827,0.810,0.823,0.817,0.828,0.751,0.805,(7.2919)+(-0.0670)Asn+(0.0194)Thr+(-0.0039)Ala+(-0.0149)Arg+(0.0235)Orn+(-0.1372)Trp;0.795,0.822,0.721,0.716,0.668,0.822,0.772,0.745,(1.5358)+(0.0301)Ser+(-0.0283)Arg+(-0.0236)Tyr+(-0.0504)Val+(-0.0107)Lys+(0.1646)Ile;0.795,0.820,0.777,0.768,0.757,0.838,0.800,0.791,(4.1383)+(0.0082)Gln+(-0.1495)His+(0.0066)Thr+(-0.0053)Ala+(0.0066)Pro+(0.0029)Val;0.795,0.829,0.791,0.778,0.789,0.806,0.818,0.798,(4

.4122)+(-0.1223)His+(-0.0012)Ala+(-0.0063)Val+(-0.1924)Met+(0.0103)Lys+(0.1256)Phe;0.795,0.828,0.754,0.733,0.740,0.812,0.799,0.771,(4.7381)+(-0.1427)His+(0.0175)Thr+(-0.0060)Ala+(0.0046)Pro+(-0.0071)Lys+(0.0824)Phe;0.795,0.827,0.747,0.711,0.751,0.831,0.775,0.767,(5.5065)+(-0.1020)His+(-0.0622)Cit+(-0.0076)Arg+(0.0412)Orn+(0.1128)Ile+(-0.0535)Leu;0.795,0.826,0.736,0.704,0.761,0.810,0.716,0.748,(4.0277)+(-0.0560)Asn+(0.0077)Gly+(-0.1289)His+(-0.0726)Cit+(0.0402)Orn+(0.0805)Phe;0.795,0.826,0.813,0.809,0.821,0.814,0.807,0.813,(7.2223)+(-0.0510)Cit+(-0.0203)Val+(-0.1058)Met+(0.0053)Lys+(0.0506)Leu+(-0.1416)Trp;0.795,0.832,0.830,0.817,0.847,0.834,0.824,0.830,(7.2942)+(-0.0037)Ala+(-0.0659)Cit+(0.0277)Tyr+(-0.0912)Met+(0.0219)Leu+(-0.1508)Trp;0.795,0.828,0.786,0.777,0.780,0.837,0.787,0.795,(3.9879)+(0.0098)Gln+(-0.1366)His+(0.0071)Pro+(-0.0021)Tyr+(-0.1350)Met+(0.0221)Orn;0.795,0.828,0.813,0.825,0.814,0.802,0.786,0.807,(6.9946)+(-0.0402)Asn+(0.0106)Pro+(-0.0046)Val+(-0.1241)Met+(0.0121)Lys+(-0.1305)Trp;0.795,0.827,0.818,0.815,0.845,0.833,0.757,0.813,(6.9462)+(0.0039)Gly+(-0.0700)Cit+(0.0275)Tyr+(0.0052)Val+(-0.1049)Met+(-0.1474)Trp;0.795,0.826,0.758,0.739,0.755,0.813,0.773,0.770,(5.1224)+(-0.1444)His+(0.0228)Thr+(-0.0049)Ala+(-0.0165)Arg+(-0.0043)Lys+(0.0879)Phe;0.795,0.824,0.749,0.725,0.738,0.825,0.780,0.767,(5.9012)+(-0.1164)His+(0.0141)Thr+(-0.0184)Arg+(-0.0038)Pro+(0.1147)Ile+(-0.0467)Leu;0.795,0.836,0.723,0.709,0.727,0.781,0.709,0.731,(-4.8398)+(0.0560)Ser+(-0.0176)Arg+(-0.4259)Met+(-0.0085)Orn+(0.0586)Ile+(0.0950)Phe;0.795,0.835,0.769,0.773,0.776,0.817,0.707,0.768,(-1.9406)+(0.0490)Ser+(-0.0039)Ala+(-0.0829)Cit+(-0.3007)Met+(-0.0087)Lys+(0.1260)Phe;0.795,0.828,0.752,0.734,0.757,0.838,0.726,0.764,(3.9090)+(0.0427)Ser+(-0.1263)His+(-0.0014)Ala+(0.0090)Val+(-0.1277)Met+(0.0032)Lys;0.795,0.826,0.814,0.810,0.817,0.836,0.807,0.817,(8.7956)+(-0.0092)Asn+(-0.0790)His+(-0.0011)Ala+(0.0001)Arg+(0.0214)Tyr+(-0.

1016)Trp;0.795,0.833,0.765,0.754,0.772,0.858,0.711,0.774,(1.8133)+(0.0374)Ser+(-0.0103)Ala+(-0.1130)Cit+(0.0177)Pro+(-0.2395)Met+(0.0440)Orn;0.795,0.831,0.819,0.831,0.820,0.815,0.786,0.813,(5.2363)+(-0.1103)Asn+(0.0051)Gln+(0.0132)Thr+(0.0101)Orn+(0.0046)Leu+(-0.1499)Trp;0.795,0.827,0.755,0.734,0.748,0.815,0.781,0.769,(4.9143)+(-0.1433)His+(0.0199)Thr+(-0.0064)Ala+(-0.0186)Arg+(0.0052)Pro+(0.0822)Phe;0.795,0.826,0.762,0.756,0.741,0.832,0.773,0.775,(0.3027)+(0.0468)Ser+(-0.1586)Asn+(-0.0118)Ala+(-0.0857)Cit+(0.0120)Pro+(0.0758)Phe;0.795,0.823,0.821,0.830,0.832,0.838,0.759,0.815,(7.9362)+(-0.0399)Asn+(0.0034)Gly+(-0.0671)Cit+(0.0104)Arg+(-0.0332)Met+(-0.1299)Trp;0.795,0.822,0.748,0.730,0.743,0.832,0.744,0.762,(4.7479)+(0.0406)Ser+(-0.0056)Gly+(-0.1280)His+(0.0077)Thr+(-0.0123)Tyr+(-0.0022)Lys;0.795,0.818,0.758,0.748,0.693,0.846,0.852,0.785,(3.5557)+(-0.0006)Gly+(-0.0095)Ala+(-0.0283)Arg+(-0.0573)Val+(0.0289)Orn+(0.1796)Ile;0.795,0.830,0.778,0.757,0.789,0.822,0.776,0.786,(0.7648)+(0.0321)Thr+(-0.0102)Ala+(-0.0953)Cit+(-0.3615)Met+(0.0623)Ile+(0.0844)Phe;0.794,0.832,0.808,0.783,0.830,0.827,0.815,0.814,(8.6278)+(-0.0785)His+(-0.0364)Cit+(0.0252)Tyr+(-0.0653)Met+(0.0254)Leu+(-0.1208)Trp;0.794,0.830,0.754,0.736,0.732,0.833,0.790,0.773,(-1.0288)+(0.0497)Ser+(-0.0564)Asn+(-0.0072)Ala+(0.0045)Tyr+(-0.2653)Met+(0.0760)Ile;0.794,0.820,0.756,0.745,0.738,0.815,0.782,0.770,(4.1565)+(0.0047)Gly+(-0.1385)His+(-0.0040)Ala+(-0.0031)Val+(-0.0000)Lys+(0.0923)Phe;0.794,0.835,0.742,0.733,0.714,0.841,0.755,0.761,(-0.6059)+(0.0401)Ser+(0.0008)Thr+(0.0023)Tyr+(-0.3167)Met+(0.1703)Ile+(-0.0749)Leu;0.794,0.831,0.753,0.728,0.754,0.815,0.771,0.767,(4.7856)+(-0.1457)His+(0.0185)Thr+(-0.0054)Ala+(-0.0192)Arg+(0.0206)Orn+(0.0775)Phe;0.794,0.829,0.815,0.808,0.819,0.821,0.824,0.818,(7.7834)+(-0.0525)Asn+(-0.0632)Cit+(0.0092)Arg+(-0.0192)Val+(0.0472)Leu+(-0.1439)Trp;0.794,0.828,0.816,0.808,0.824,0.824,0.811,0.817,(7.1533)+(-0.0045)Ala

+(-0.0769)Cit+(0.0096)Arg+(-0.0032)Lys+(0.0236)Leu+(-0.1533)Trp;0.794,0.828,0.751,0.739,0.762,0.844,0.691,0.759,(5.3863)+(0.0394)Ser+(-0.0635)Asn+(-0.1155)His+(0.0134)Thr+(-0.0274)Cit+(-0.0096)Arg;0.794,0.827,0.724,0.699,0.729,0.793,0.730,0.738,(6.1144)+(-0.1374)His+(0.0197)Thr+(-0.0172)Arg+(-0.0421)Tyr+(0.0256)Orn+(0.0480)Ile;0.794,0.826,0.764,0.729,0.753,0.837,0.829,0.787,(6.0316)+(-0.1232)His+(-0.0066)Ala+(-0.0064)Arg+(0.0264)Orn+(-0.0030)Lys+(0.0534)Ile;0.794,0.823,0.715,0.684,0.726,0.811,0.704,0.731,(3.6044)+(0.0422)Ser+(-0.1399)His+(-0.0147)Arg+(0.0064)Pro+(-0.0188)Tyr+(0.0181)Leu;0.794,0.822,0.745,0.757,0.678,0.791,0.823,0.762,(2.1459)+(0.0004)Gln+(-0.0298)Arg+(-0.0570)Tyr+(-0.0563)Val+(0.1601)Ile+(0.0723)Phe;0.794,0.819,0.717,0.682,0.736,0.819,0.697,0.734,(3.6432)+(0.0397)Ser+(-0.1462)His+(0.0072)Thr+(-0.0252)Cit+(-0.0127)Arg+(0.0194)Leu;0.794,0.818,0.769,0.762,0.711,0.847,0.851,0.793,(4.2155)+(-0.1583)Asn+(0.0032)Gln+(-0.0546)Val+(0.0265)Orn+(0.1693)Ile+(-0.0111)Leu;0.794,0.828,0.815,0.828,0.811,0.813,0.787,0.810,(4.7157)+(-0.0015)Gly+(0.0052)Gln+(0.0077)Pro+(-0.1692)Met+(0.0165)Orn+(-0.1363)Trp;0.794,0.827,0.750,0.743,0.758,0.840,0.689,0.757,(5.4034)+(0.0384)Ser+(-0.0583)Asn+(-0.1185)His+(0.0136)Thr+(-0.0142)Arg+(-0.0062)Tyr;0.794,0.825,0.798,0.797,0.788,0.840,0.794,0.805,(4.1964)+(-0.0308)Asn+(0.0012)Gly+(0.0113)Gln+(-0.1312)His+(0.0080)Pro+(-0.1109)Met;0.794,0.824,0.791,0.786,0.781,0.838,0.792,0.799,(4.6117)+(-0.0589)Asn+(0.0100)Gln+(-0.1360)His+(-0.0136)Tyr+(-0.0001)Val+(0.0260)Orn;0.794,0.823,0.755,0.729,0.735,0.834,0.808,0.777,(5.4838)+(0.0046)Gly+(-0.1228)His+(-0.0074)Ala+(-0.0075)Arg+(0.0044)Pro+(0.0576)Ile;0.794,0.822,0.770,0.764,0.712,0.847,0.851,0.794,(4.4450)+(-0.1737)Asn+(0.0038)Gln+(0.0163)Thr+(-0.0575)Val+(-0.0050)Lys+(0.1681)Ile;0.794,0.821,0.748,0.746,0.669,0.829,0.858,0.776,(3.6862)+(-0.0021)Gln+(-0.0092)Ala+(-0.0299)Tyr+(-0.0523)Val+(0.0232)Orn+(0.1704)Ile;0.794,0.831,0.8

27,0.839,0.825,0.818,0.809,0.823,(5.1679)+(-0.0913)Asn+(-0.0009)Gly+(0.0057)Gln+(0.0037)Pro+(0.0154)Orn+(-0.1422)Trp;0.794,0.829,0.790,0.800,0.793,0.835,0.723,0.788,(4.1692)+(0.0289)Ser+(0.0065)Thr+(-0.0038)Ala+(-0.0188)Arg+(0.0030)Val+(-0.1464)Trp;0.794,0.825,0.786,0.770,0.795,0.853,0.762,0.795,(4.4478)+(-0.0718)Asn+(0.0026)Gly+(0.0101)Gln+(-0.1287)His+(-0.0709)Cit+(0.0420)Orn;0.794,0.825,0.767,0.743,0.785,0.827,0.748,0.776,(7.0128)+(-0.1224)His+(0.0348)Thr+(-0.0031)Ala+(-0.0395)Cit+(-0.1929)Met+(0.0281)Leu;0.794,0.824,0.791,0.786,0.781,0.838,0.792,0.799,(4.5976)+(-0.0591)Asn+(0.0002)Gly+(0.0099)Gln+(-0.1361)His+(-0.0135)Tyr+(0.0259)Orn;0.794,0.815,0.767,0.767,0.699,0.844,0.855,0.791,(3.8125)+(0.0005)Gly+(-0.0091)Ala+(-0.0232)Arg+(-0.0425)Val+(0.2046)Ile+(-0.0361)Leu;0.794,0.831,0.752,0.758,0.771,0.797,0.664,0.748,(-2.3932)+(0.0422)Ser+(0.0191)Thr+(-0.0046)Ala+(-0.0881)Cit+(-0.3938)Met+(0.1260)Phe;0.794,0.820,0.780,0.772,0.758,0.840,0.800,0.793,(4.3413)+(-0.0005)Gly+(0.0082)Gln+(-0.1452)His+(0.0071)Thr+(-0.0050)Ala+(0.0072)Pro;0.794,0.829,0.800,0.792,0.794,0.850,0.795,0.808,(4.2766)+(-0.0328)Asn+(0.0105)Gln+(-0.1364)His+(0.0014)Val+(-0.0895)Met+(0.0241)Orn;0.794,0.828,0.800,0.793,0.794,0.851,0.797,0.809,(4.3632)+(-0.0351)Asn+(0.0105)Gln+(-0.1343)His+(0.0007)Tyr+(-0.0862)Met+(0.0253)Orn;0.794,0.831,0.746,0.721,0.731,0.816,0.796,0.766,(4.2353)+(-0.1460)His+(0.0120)Thr+(-0.0064)Ala+(0.0040)Pro+(0.0174)Orn+(0.0710)Phe;0.794,0.822,0.743,0.718,0.744,0.823,0.748,0.758,(4.2349)+(0.0450)Ser+(-0.0049)Gly+(-0.1335)His+(-0.0123)Tyr+(0.0067)Val+(-0.0034)Lys;0.794,0.820,0.764,0.756,0.716,0.845,0.825,0.785,(5.2816)+(-0.1244)Asn+(0.0052)Gly+(-0.0559)Cit+(-0.0004)Pro+(-0.0530)Val+(0.1673)Ile;0.794,0.818,0.766,0.758,0.709,0.847,0.845,0.790,(4.1957)+(-0.1653)Asn+(0.0017)Gly+(0.0029)Gln+(-0.0583)Val+(0.0271)Orn+(0.1628)Ile;0.794,0.828,0.754,0.736,0.763,0.843,0.719,0.765,(4.2190)+(0.0442)Ser+(-0.1245)His+(-0.0013)Ala+(

-0.0077)Arg+(0.0094)Val+(-0.1036)Met;0.794,0.827,0.764,0.786,0.687,0.810,0.834,0.779,(0.9576)+(-0.0100)Ala+(-0.0637)Tyr+(0.0033)Orn+(0.1755)Ile+(-0.0985)Leu+(0.0844)Phe;0.794,0.826,0.818,0.814,0.817,0.824,0.826,0.820,(7.9837)+(-0.0359)Asn+(-0.0030)Ala+(-0.0573)Cit+(-0.0181)Val+(0.0495)Leu+(-0.1399)Trp;0.794,0.822,0.781,0.769,0.768,0.838,0.802,0.794,(4.1296)+(-0.0001)Gly+(0.0082)Gln+(-0.1493)His+(-0.0037)Ala+(0.0022)Val+(0.0227)Orn;0.794,0.829,0.797,0.806,0.812,0.812,0.732,0.790,(6.5182)+(0.0299)Thr+(-0.0027)Ala+(-0.0124)Arg+(-0.1775)Met+(0.0191)Leu+(-0.1478)Trp;0.794,0.828,0.770,0.807,0.744,0.802,0.702,0.764,(0.4402)+(0.0491)Ser+(-0.1650)Asn+(-0.0162)Arg+(-0.0489)Tyr+(-0.0169)Val+(0.1270)Phe;0.794,0.819,0.712,0.702,0.665,0.817,0.758,0.736,(1.2244)+(0.0317)Ser+(-0.0022)Gln+(-0.0371)Arg+(-0.0441)Val+(0.1969)Ile+(-0.0403)Leu;0.794,0.834,0.769,0.773,0.784,0.805,0.706,0.767,(3.1802)+(0.0327)Ser+(-0.0193)Arg+(0.0167)Orn+(-0.0060)Lys+(0.0118)Leu+(-0.1534)Trp;0.794,0.829,0.799,0.805,0.788,0.798,0.807,0.799,(4.7542)+(0.0027)Gln+(0.0045)Pro+(-0.0237)Val+(-0.0043)Lys+(0.0456)Leu+(-0.1541)Trp;0.794,0.825,0.755,0.749,0.735,0.804,0.777,0.766,(4.3900)+(0.0043)Gly+(-0.1373)His+(-0.0033)Ala+(-0.0315)Tyr+(0.0043)Leu+(0.0988)Phe;0.794,0.830,0.731,0.727,0.651,0.829,0.836,0.761,(-1.2726)+(0.0295)Ser+(-0.0043)Gln+(-0.0137)Ala+(0.1747)Ile+(-0.0948)Leu+(0.0580)Phe;0.794,0.826,0.796,0.788,0.820,0.805,0.760,0.793,(6.5511)+(0.0031)Gly+(-0.0825)Cit+(0.0064)Arg+(-0.0044)Lys+(0.0196)Leu+(-0.1605)Trp;0.794,0.821,0.723,0.708,0.733,0.824,0.670,0.734,(4.4673)+(0.0372)Ser+(-0.1283)His+(0.0079)Thr+(-0.0190)Arg+(0.0085)Pro+(-0.0178)Tyr;0.794,0.819,0.775,0.756,0.762,0.830,0.813,0.790,(4.0243)+(0.0001)Gly+(0.0091)Gln+(-0.1513)His+(-0.0155)Val+(-0.0049)Lys+(0.0390)Leu;0.794,0.830,0.761,0.753,0.684,0.856,0.878,0.793,(-0.2340)+(0.0439)Ser+(-0.0070)Gly+(-0.0197)Thr+(-0.0114)Ala+(0.1856)Ile+(-0.0893)Leu

;0.794,0.832,0.764,0.762,0.770,0.799,0.735,0.766,(2.8218)+(0.0320)Ser+(0.0000)Gln+(0.0002)Thr+(-0.0099)Lys+(0.0160)Leu+(-0.1559)Trp;0.794,0.829,0.790,0.788,0.815,0.799,0.733,0.784,(6.7255)+(0.0165)Thr+(-0.0744)Cit+(-0.0055)Arg+(-0.0091)Tyr+(0.0158)Leu+(-0.1689)Trp;0.794,0.828,0.754,0.736,0.763,0.835,0.724,0.764,(4.1172)+(0.0441)Ser+(-0.0281)Asn+(-0.1217)His+(0.0070)Val+(-0.1170)Met+(0.0044)Lys;0.794,0.827,0.813,0.824,0.813,0.829,0.773,0.810,(6.9898)+(-0.0791)Asn+(0.0161)Thr+(-0.0041)Ala+(0.0199)Orn+(0.0008)Lys+(-0.1377)Trp;0.794,0.818,0.793,0.788,0.779,0.836,0.801,0.801,(4.3147)+(-0.0635)Asn+(0.0011)Gly+(0.0109)Gln+(-0.1399)His+(0.0046)Pro+(0.0001)Val;0.794,0.830,0.737,0.726,0.728,0.786,0.749,0.747,(4.0883)+(0.0032)Gly+(-0.1409)His+(-0.0432)Tyr+(0.0269)Orn+(-0.0013)Lys+(0.0937)Phe;0.794,0.825,0.751,0.732,0.732,0.808,0.800,0.768,(4.4412)+(-0.1411)His+(0.0145)Thr+(-0.0058)Ala+(0.0054)Pro+(-0.0054)Val+(0.0849)Phe;0.794,0.819,0.725,0.698,0.740,0.821,0.697,0.739,(3.8869)+(0.0411)Ser+(-0.1357)His+(-0.0164)Arg+(0.0067)Pro+(0.0031)Val+(-0.0009)Lys;0.794,0.829,0.792,0.791,0.777,0.823,0.806,0.799,(5.3625)+(0.0102)Thr+(-0.0059)Ala+(-0.0277)Val+(0.0204)Orn+(0.0548)Leu+(-0.1525)Trp;0.794,0.825,0.766,0.731,0.755,0.837,0.829,0.788,(6.0589)+(-0.0086)Asn+(-0.1235)His+(-0.0066)Ala+(-0.0068)Arg+(0.0257)Orn+(0.0515)Ile;0.794,0.823,0.757,0.731,0.738,0.835,0.812,0.779,(5.5772)+(0.0045)Gly+(-0.1240)His+(-0.0064)Ala+(-0.0063)Arg+(-0.0004)Lys+(0.0615)Ile;0.794,0.819,0.755,0.744,0.707,0.840,0.820,0.778,(5.1760)+(-0.1276)Asn+(0.0023)Gly+(-0.0184)Arg+(-0.0600)Val+(0.0365)Orn+(0.1696)Ile;0.794,0.830,0.802,0.789,0.808,0.805,0.823,0.806,(5.7389)+(-0.0056)Asn+(-0.0023)Arg+(0.0153)Tyr+(-0.1796)Met+(0.0643)Ile+(-0.1460)Trp;0.794,0.827,0.789,0.783,0.811,0.799,0.749,0.786,(6.4148)+(0.0029)Gly+(-0.0808)Cit+(0.0071)Pro+(-0.0050)Tyr+(0.0137)Leu+(-0.1620)Trp;0.794,0.825,0.802,0.786,0.802,0.864,0.800,0.813,(4.9804)+(-0.0622)Asn+(0.0103)Gln

+(-0.1203)His+(-0.0041)Ala+(-0.0742)Cit+(0.0469)Orn;0.794,0.823,0.784,0.771,0.772,0.840,0.800,0.796,(4.2172)+(0.0085)Gln+(-0.1480)His+(-0.0036)Ala+(0.0028)Val+(0.0237)Orn+(-0.0029)Lys;0.794,0.821,0.759,0.746,0.708,0.842,0.841,0.784,(5.0999)+(-0.1684)Asn+(0.0135)Thr+(-0.0037)Pro+(-0.0607)Val+(0.0284)Orn+(0.1727)Ile;0.794,0.833,0.732,0.736,0.715,0.790,0.716,0.739,(-3.7331)+(0.0444)Ser+(0.0094)Thr+(-0.0078)Ala+(0.0145)Pro+(-0.4152)Met+(0.1114)Phe;0.794,0.829,0.813,0.806,0.824,0.823,0.800,0.813,(8.7367)+(-0.0237)Asn+(-0.0745)His+(-0.0318)Cit+(0.0150)Tyr+(0.0106)Lys+(-0.1124)Trp;0.794,0.829,0.788,0.794,0.807,0.801,0.727,0.782,(5.8251)+(0.0239)Thr+(-0.2002)Met+(0.0111)Orn+(-0.0007)Lys+(0.0151)Leu+(-0.1496)Trp;0.794,0.827,0.811,0.824,0.810,0.829,0.765,0.807,(7.0879)+(-0.0771)Asn+(0.0169)Thr+(-0.0038)Ala+(-0.0065)Tyr+(0.0211)Orn+(-0.1353)Trp;0.794,0.824,0.816,0.821,0.832,0.833,0.756,0.810,(7.3633)+(0.0033)Gly+(-0.0026)Ala+(-0.0691)Cit+(0.0075)Val+(-0.0452)Met+(-0.1405)Trp;0.794,0.822,0.766,0.750,0.764,0.822,0.770,0.777,(4.1597)+(0.0078)Gln+(-0.1546)His+(0.0067)Thr+(0.0012)Val+(0.0205)Orn+(-0.0056)Lys;0.794,0.822,0.794,0.785,0.782,0.833,0.817,0.804,(4.2175)+(-0.0569)Asn+(0.0114)Gln+(-0.1464)His+(-0.0130)Tyr+(-0.0001)Lys+(0.0149)Leu;0.794,0.831,0.799,0.805,0.792,0.815,0.787,0.800,(3.8254)+(0.0390)Ser+(-0.0088)Gly+(0.0015)Gln+(-0.0094)Tyr+(-0.0050)Lys+(-0.1431)Trp;0.794,0.825,0.738,0.720,0.732,0.797,0.756,0.751,(6.6616)+(-0.0303)Asn+(-0.1284)His+(0.0240)Thr+(-0.0125)Arg+(-0.0365)Tyr+(0.0523)Ile;0.794,0.829,0.743,0.716,0.765,0.816,0.714,0.753,(5.9620)+(0.0024)Gly+(-0.1392)His+(0.0288)Thr+(-0.2034)Met+(0.0197)Orn+(0.0232)Leu;0.794,0.825,0.764,0.764,0.746,0.838,0.749,0.774,(4.9477)+(-0.0708)Asn+(-0.0983)Cit+(-0.0470)Tyr+(0.0467)Orn+(0.1491)Ile+(-0.0813)Leu;0.794,0.835,0.797,0.816,0.802,0.761,0.761,0.785,(4.0114)+(-0.0172)Arg+(-0.0311)Tyr+(0.0170)Orn+(-0.0036)Leu+(0.0888)Phe+(-0.1532)Trp;0.794,0.823,0.748,0.734,0.

728,0.811,0.779,0.763,(5.8122)+(0.0032)Gly+(-0.1009)His+(-0.0118)Arg+(-0.0229)Tyr+(0.1207)Ile+(-0.0480)Leu;0.794,0.816,0.754,0.732,0.744,0.813,0.793,0.770,(3.9383)+(0.0072)Gln+(-0.1576)His+(0.0091)Thr+(0.0015)Pro+(-0.0176)Val+(0.0386)Leu;0.794,0.836,0.744,0.736,0.723,0.849,0.731,0.760,(0.0845)+(0.0445)Ser+(-0.0241)Arg+(0.0024)Pro+(-0.2715)Met+(0.1784)Ile+(-0.0812)Leu;0.794,0.833,0.816,0.808,0.826,0.825,0.807,0.817,(8.3607)+(-0.0828)His+(-0.0049)Arg+(0.0258)Tyr+(-0.0930)Met+(0.0150)Lys+(-0.1100)Trp;0.794,0.828,0.760,0.739,0.769,0.799,0.771,0.769,(5.5812)+(-0.0803)Asn+(-0.1274)His+(0.0254)Thr+(-0.0365)Cit+(-0.0097)Val+(0.1009)Phe;0.794,0.826,0.794,0.778,0.801,0.855,0.773,0.802,(4.3898)+(0.0098)Gln+(-0.1277)His+(-0.0652)Cit+(-0.1086)Met+(0.0433)Orn+(-0.0003)Lys;0.794,0.833,0.730,0.743,0.723,0.775,0.683,0.731,(-3.0584)+(0.0475)Ser+(-0.0009)Gln+(0.0141)Pro+(-0.0169)Val+(-0.4029)Met+(0.1335)Phe;0.794,0.831,0.788,0.778,0.787,0.784,0.816,0.791,(4.1706)+(-0.0020)Gly+(0.0027)Gln+(0.0075)Thr+(-0.0121)Lys+(0.0538)Ile+(-0.1696)Trp;0.794,0.827,0.807,0.820,0.798,0.814,0.788,0.805,(6.3024)+(0.0007)Gly+(-0.0046)Ala+(0.0129)Pro+(-0.1345)Met+(0.0088)Lys+(-0.1323)Trp;0.794,0.818,0.774,0.763,0.767,0.825,0.783,0.784,(4.1997)+(-0.0006)Gly+(0.0088)Gln+(-0.1564)His+(0.0088)Thr+(0.0030)Val+(-0.0047)Lys;0.794,0.830,0.795,0.806,0.785,0.835,0.759,0.796,(3.5582)+(0.0262)Ser+(0.0008)Gln+(0.0008)Thr+(-0.0039)Ala+(0.0002)Tyr+(-0.1446)Trp;0.794,0.829,0.816,0.816,0.829,0.817,0.786,0.812,(5.0826)+(0.0055)Gln+(-0.0785)Cit+(-0.0037)Arg+(-0.0041)Tyr+(0.0149)Leu+(-0.1670)Trp;0.794,0.831,0.812,0.798,0.824,0.828,0.811,0.815,(8.4800)+(-0.0853)His+(0.0028)Arg+(0.0224)Tyr+(0.0075)Val+(-0.0599)Met+(-0.1092)Trp;0.794,0.827,0.733,0.687,0.738,0.809,0.789,0.756,(5.5314)+(-0.1437)His+(0.0141)Thr+(-0.0041)Pro+(0.0205)Orn+(-0.0093)Lys+(0.0496)Ile;0.794,0.823,0.738,0.697,0.743,0.808,0.789,0.759,(5.7049)+(-0.0425)Asn+(-0.1409)His+(0.0152)Thr+(-0.0036)Pr

o+(0.0182)Orn+(0.0437)Ile;0.794,0.822,0.739,0.712,0.747,0.826,0.729,0.754,(4.2039)+(0.0460)Ser+(-0.0043)Gly+(-0.1296)His+(-0.0158)Arg+(0.0075)Pro+(-0.0005)Lys;0.794,0.822,0.722,0.703,0.723,0.820,0.698,0.736,(4.0547)+(0.0358)Ser+(-0.1310)His+(0.0026)Thr+(0.0080)Pro+(-0.0162)Tyr+(-0.0018)Lys;0.794,0.821,0.748,0.724,0.717,0.821,0.826,0.772,(5.9563)+(-0.0871)His+(-0.0266)Cit+(-0.0088)Arg+(-0.0366)Val+(-0.0004)Lys+(0.1357)Ile;0.794,0.828,0.797,0.784,0.805,0.802,0.810,0.800,(5.5567)+(-0.0050)Arg+(0.0131)Tyr+(-0.1829)Met+(0.0101)Orn+(0.0615)Ile+(-0.1457)Trp;0.794,0.825,0.799,0.800,0.827,0.818,0.721,0.792,(6.9272)+(0.0005)Gly+(0.0153)Thr+(-0.0726)Cit+(-0.0060)Arg+(0.0032)Val+(-0.1621)Trp;0.794,0.823,0.730,0.695,0.731,0.805,0.764,0.749,(5.5641)+(-0.0427)Asn+(0.0038)Gly+(-0.1354)His+(0.0157)Thr+(-0.0049)Lys+(0.0492)Ile;0.794,0.832,0.795,0.799,0.822,0.805,0.721,0.787,(6.3199)+(0.0292)Thr+(-0.0136)Arg+(0.0150)Tyr+(-0.2126)Met+(0.0161)Leu+(-0.1529)Trp;0.794,0.828,0.796,0.789,0.808,0.810,0.778,0.796,(6.4612)+(0.0027)Gly+(-0.0716)Cit+(0.0022)Arg+(-0.0163)Val+(0.0430)Leu+(-0.1581)Trp;0.794,0.828,0.836,0.854,0.829,0.843,0.800,0.832,(5.4241)+(-0.0714)Asn+(0.0064)Gln+(-0.0035)Ala+(-0.0126)Arg+(0.0249)Orn+(-0.1333)Trp;0.794,0.827,0.814,0.826,0.813,0.814,0.781,0.809,(4.4975)+(0.0050)Gln+(0.0073)Pro+(0.0098)Tyr+(-0.1844)Met+(0.0149)Orn+(-0.1383)Trp;0.794,0.825,0.804,0.805,0.821,0.814,0.757,0.799,(7.2833)+(-0.0480)Asn+(0.0041)Gly+(-0.0727)Cit+(0.0023)Lys+(0.0164)Leu+(-0.1512)Trp;0.794,0.824,0.747,0.734,0.667,0.830,0.886,0.779,(2.1929)+(-0.0031)Gln+(-0.0112)Ala+(-0.0567)Val+(0.0153)Orn+(0.1700)Ile+(0.0380)Phe;0.794,0.824,0.804,0.812,0.813,0.809,0.759,0.798,(6.8284)+(-0.0288)Asn+(-0.0063)Arg+(0.0076)Pro+(-0.1084)Met+(0.0253)Orn+(-0.1272)Trp;0.794,0.820,0.794,0.783,0.776,0.849,0.822,0.808,(4.1316)+(0.0108)Gln+(-0.1479)His+(-0.0030)Ala+(-0.0158)Arg+(-0.0140)Val+(0.0375)Leu;0.794,0.818,0.763,0.761,0.694,0.843,0.857,0.789,(3.89

70)+(-0.0103)Ala+(-0.0241)Arg+(0.0059)Pro+(-0.0438)Val+(0.1988)Ile+(-0.0332)Leu;0.794,0.817,0.723,0.706,0.670,0.816,0.811,0.751,(1.5453)+(0.0399)Ser+(-0.0075)Gly+(-0.0021)Gln+(-0.0343)Arg+(-0.0574)Val+(0.1676)Ile;0.794,0.827,0.800,0.806,0.788,0.790,0.817,0.800,(4.7886)+(-0.0016)Gly+(0.0025)Gln+(0.0045)Pro+(-0.0236)Val+(0.0428)Leu+(-0.1565)Trp;0.794,0.821,0.802,0.798,0.781,0.848,0.823,0.812,(4.5658)+(-0.0616)Asn+(0.0107)Gln+(-0.1347)His+(-0.0044)Ala+(0.0080)Pro+(0.0033)Lys;0.794,0.824,0.785,0.763,0.787,0.811,0.818,0.795,(4.5604)+(0.0213)Asn+(-0.1254)His+(-0.0022)Ala+(-0.1884)Met+(0.0070)Leu+(0.1119)Phe;0.794,0.829,0.750,0.739,0.742,0.777,0.774,0.758,(4.9259)+(-0.0289)Asn+(-0.1291)His+(0.0032)Pro+(-0.0485)Tyr+(0

.0283)Orn+(0.0899)Phe;0.794,0.821,0.773,0.766,0.715,0.851,0.858,0.797,(4.2768)+(-0.1615)Asn+(0.0033)Gln+(-0.0033)Pro+(-0.0584)Val+(0.0293)Orn+(0.1663)Ile;0.794,0.828,0.763,0.749,0.766,0.834,0.748,0.774,(6.5772)+(-0.1158)His+(0.0225)Thr+(-0.0040)Ala+(0.0095)Pro+(-0.1565)Met+(0.0268)Orn;0.794,0.835,0.752,0.750,0.725,0.856,0.740,0.768,(-0.4080)+(0.0413)Ser+(0.0023)Gln+(-0.0263)Arg+(-0.2734)Met+(0.1836)Ile+(-0.0833)Leu;0.794,0.834,0.800,0.817,0.804,0.758,0.778,0.789,(3.9945)+(-0.0144)Arg+(-0.0291)Tyr+(0.0014)Lys+(-0.0013)Leu+(0.0942)Phe+(-0.1581)Trp;0.794,0.830,0.708,0.702,0.646,0.794,0.791,0.733,(-0.5808)+(0.0289)Ser+(-0.0525)Tyr+(-0.0486)Val+(-0.0219)Lys+(0.1497)Ile+(0.0707)Phe;0.794,0.829,0.783,0.782,0.774,0.784,0.802,0.786,(4.1387)+(0.0030)Gln+(-0.0212)Tyr+(0.0059)Orn+(-0.0090)Lys+(0.0558)Ile+(-0.1584)Trp;0.794,0.828,0.770,0.748,0.757,0.819,0.820,0.786,(4.9730)+(-0.0324)Asn+(-0.1276)His+(-0.0063)Ala+(0.0056)Pro+(0.0239)Orn+(0.0715)Phe;0.794,0.828,0.768,0.779,0.771,0.805,0.709,0.766,(-2.1354)+(0.0460)Ser+(-0.0028)Ala+(-0.0741)Cit+(-0.0076)Val+(-0.3236)Met+(0.1328)Phe;0.794,0.825,0.760,0.783,0.682,0.805,0.830,0.775,(1.0342)+(-0.0107)Ala+(0.0039)Pro+(-0.0644

)Tyr+(0.1710)Ile+(-0.0969)Leu+(0.0835)Phe;0.794,0.825,0.725,0.691,0.739,0.810,0.726,0.741,(5.3662)+(0.0045)Gly+(-0.1236)His+(-0.0687)Cit+(-0.0319)Tyr+(0.0434)Orn+(0.0484)Ile;0.794,0.824,0.728,0.726,0.703,0.831,0.714,0.743,(1.5451)+(0.0291)Ser+(-0.0822)Cit+(-0.0408)Tyr+(-0.0141)Lys+(0.1608)Ile+(-0.0743)Leu;0.794,0.824,0.754,0.752,0.746,0.792,0.752,0.760,(4.7823)+(-0.0337)Asn+(0.0055)Gly+(-0.1308)His+(-0.0060)Arg+(-0.0343)Tyr+(0.1063)Phe;0.794,0.821,0.723,0.699,0.715,0.790,0.758,0.740,(5.5125)+(0.0016)Gly+(-0.1383)His+(0.0152)Thr+(-0.0008)Pro+(-0.0340)Tyr+(0.0540)Ile;0.794,0.828,0.808,0.803,0.811,0.823,0.801,0.810,(8.3769)+(-0.0875)His+(-0.0014)Ala+(-0.0073)Arg+(0.0148)Tyr+(0.0117)Lys+(-0.1080)Trp;0.794,0.824,0.786,0.773,0.781,0.836,0.797,0.797,(4.2671)+(-0.0640)Asn+(0.0101)Gln+(-0.1423)His+(0.0032)Pro+(0.0207)Orn+(-0.0003)Lys;0.794,0.823,0.813,0.816,0.798,0.855,0.807,0.819,(4.5814)+(-0.0377)Asn+(0.0006)Gly+(0.0115)Gln+(-0.1300)His+(-0.0006)Ala+(-0.0662)Met;0.794,0.821,0.752,0.743,0.688,0.843,0.846,0.780,(3.4854)+(-0.0106)Ala+(-0.0291)Arg+(0.0052)Pro+(-0.0572)Val+(0.0257)Orn+(0.1763)Ile;0.794,0.830,0.795,0.804,0.780,0.794,0.800,0.794,(4.8283)+(0.0025)Gln+(0.0056)Pro+(-0.0154)Tyr+(-0.0227)Val+(0.0429)Leu+(-0.1520)Trp;0.794,0.822,0.803,0.803,0.780,0.848,0.817,0.812,(4.7659)+(-0.0552)Asn+(0.0108)Gln+(-0.1295)His+(-0.0039)Ala+(0.0088)Pro+(-0.0096)Tyr;0.794,0.833,0.780,0.776,0.779,0.785,0.787,0.782,(3.3142)+(0.0392)Ser+(-0.0085)Gly+(0.0005)Gln+(-0.0183)Tyr+(0.0117)Leu+(-0.1556)Trp;0.794,0.819,0.738,0.713,0.728,0.801,0.777,0.755,(4.2170)+(0.0043)Gly+(-0.1408)His+(-0.0182)Val+(-0.0031)Lys+(0.0298)Leu+(0.0799)Phe;0.794,0.827,0.790,0.782,0.786,0.841,0.787,0.799,(3.9983)+(0.0004)Gly+(0.0098)Gln+(-0.1420)His+(0.0028)Val+(-0.1154)Met+(0.0232)Orn;0.794,0.827,0.797,0.798,0.747,0.862,0.853,0.815,(2.0640)+(0.0039)Gln+(-0.0079)Ala+(-0.2248)Met+(0.0056)Orn+(0.1790)Ile+(-0.0813)Leu;0.794,0.829,0.804,0.812,0.803,0.818,0.

774,0.802,(3.8875)+(0.0394)Ser+(-0.0086)Gly+(0.0025)Gln+(-0.0188)Arg+(-0.0070)Tyr+(-0.1456)Trp;0.794,0.821,0.745,0.720,0.752,0.830,0.735,0.759,(4.3139)+(0.0458)Ser+(-0.0041)Gly+(-0.1338)His+(-0.0129)Arg+(0.0052)Val+(-0.0015)Lys;0.794,0.817,0.770,0.749,0.759,0.827,0.810,0.786,(4.0034)+(0.0089)Gln+(-0.1508)His+(0.0027)Pro+(-0.0162)Val+(-0.0051)Lys+(0.0386)Leu;0.794,0.829,0.821,0.807,0.846,0.820,0.807,0.820,(6.9316)+(-0.0702)Cit+(0.0092)Arg+(0.0217)Tyr+(-0.1215)Met+(0.0193)Leu+(-0.1535)Trp;0.794,0.826,0.818,0.823,0.833,0.823,0.767,0.812,(5.1513)+(0.0007)Gly+(0.0054)Gln+(-0.0802)Cit+(-0.0024)Tyr+(0.0044)Val+(-0.1617)Trp;0.794,0.824,0.796,0.795,0.776,0.843,0.808,0.805,(4.0332)+(0.0103)Gln+(-0.1329)His+(-0.0035)Ala+(0.0109)Pro+(-0.1383)Met+(0.0064)Lys;0.794,0.822,0.749,0.726,0.718,0.821,0.821,0.772,(5.9137)+(-0.0838)His+(-0.0281)Cit+(-0.0094)Arg+(-0.0328)Val+(0.1459)Ile+(-0.0139)Leu;0.794,0.821,0.737,0.708,0.743,0.828,0.738,0.754,(4.1925)+(0.0438)Ser+(-0.0038)Gly+(-0.1263)His+(-0.0261)Cit+(0.0071)Pro+(-0.0038)Lys;0.794,0.821,0.799,0.789,0.790,0.838,0.815,0.808,(4.2692)+(-0.0599)Asn+(0.0124)Gln+(-0.1391)His+(-0.0391)Cit+(-0.0127)Tyr+(0.0162)Leu;0.794,0.820,0.722,0.688,0.727,0.822,0.729,0.742,(3.6965)+(0.0410)Ser+(-0.1364)His+(-0.0183)Cit+(-0.0099)Arg+(-0.0159)Val+(0.0435)Leu;0.794,0.816,0.771,0.772,0.702,0.848,0.855,0.794,(3.2126)+(0.0019)Gln+(-0.0092)Ala+(-0.0262)Arg+(-0.0417)Val+(0.2047)Ile+(-0.0383)Leu;0.794,0.830,0.751,0.754,0.682,0.846,0.817,0.775,(1.0011)+(0.0273)Ser+(-0.0101)Ala+(-0.0297)Tyr+(-0.0130)Lys+(0.1710)Ile+(-0.0749)Leu;0.794,0.830,0.798,0.790,0.781,0.817,0.837,0.807,(5.3319)+(0.0012)Gly+(-0.0078)Ala+(-0.0111)Arg+(-0.0001)Tyr+(0.0690)Ile+(-0.1528)Trp;0.794,0.830,0.826,0.841,0.827,0.824,0.784,0.819,(5.1958)+(-0.0803)Asn+(0.0062)Gln+(-0.0144)Arg+(0.0041)Pro+(0.0188)Orn+(-0.1408)Trp;0.794,0.828,0.746,0.737,0.677,0.850,0.837,0.775,(0.2484)+(0.0294)Ser+(-0.0125)Ala+(0.0040)Pro+(-0.0171)Lys+(0.16

37)Ile+(-0.0742)Leu;0.794,0.823,0.791,0.786,0.783,0.839,0.787,0.799,(3.8106)+(0.0011)Gly+(0.0108)Gln+(-0.1394)His+(0.0075)Pro+(0.0033)Val+(-0.1387)Met;0.794,0.822,0.761,0.752,0.685,0.842,0.884,0.791,(3.5301)+(-0.0015)Gly+(0.0069)Thr+(-0.0099)Ala+(-0.0516)Val+(-0.0133)Lys+(0.1771)Ile;0.794,0.830,0.792,0.800,0.784,0.829,0.761,0.793,(3.3257)+(0.0271)Ser+(0.0007)Gln+(0.0000)Thr+(-0.0044)Ala+(0.0030)Val+(-0.1479)Trp;0.794,0.827,0.762,0.782,0.712,0.780,0.801,0.769,(2.2299)+(-0.0932)Asn+(-0.0713)Tyr+(0.0113)Orn+(0.1524)Ile+(-0.0950)Leu+(0.0932)Phe;0.794,0.827,0.746,0.723,0.776,0.816,0.694,0.753,(6.3695)+(0.0042)Gly+(-0.1282)His+(0.0332)Thr+(-0.0429)Cit+(-0.2140)Met+(0.0281)Leu;0.794,0.822,0.763,0.747,0.761,0.820,0.770,0.774,(4.1164)+(0.0077)Gln+(-0.1533)His+(0.0060)Thr+(0.0022)Pro+(0.0202)Orn+(-0.0053)Lys;0.794,0.821,0.730,0.746,0.656,0.781,0.806,0.747,(0.9176)+(-0.0037)Pro+(-0.0669)Tyr+(-0.0373)Val+(0.1914)Ile+(-0.0539)Leu+(0.0753)Phe;0.794,0.831,0.758,0.744,0.767,0.822,0.733,0.766,(-0.8720)+(0.0476)Ser+(-0.0760)Asn+(0.0041)Gln+(-0.0790)Cit+(-0.2797)Met+(0.0647)Ile;0.794,0.830,0.779,0.777,0.758,0.804,0.812,0.788,(0.9506)+(-0.0159)Arg+(0.0003)Pro+(-0.2990)Met+(0.1776)Ile+(-0.0985)Leu+(0.1071)Phe;0.794,0.822,0.716,0.693,0.720,0.814,0.701,0.732,(3.7461)+(0.0365)Ser+(-0.1379)His+(0.0018)Thr+(0.0070)Pro+(-0.0204)Tyr+(0.0042)Val;0.794,0.819,0.738,0.713,0.712,0.821,0.797,0.761,(5.4635)+(0.0035)Gly+(-0.0905)His+(-0.0316)Cit+(-0.0098)Arg+(-0.0351)Val+(0.1340)Ile;0.794,0.831,0.735,0.718,0.705,0.828,0.777,0.757,(-1.6024)+(0.0444)Ser+(0.0041)Thr+(-0.0097)Ala+(0.0100)Pro+(-0.3366)Met+(0.0721)Ile;0.794,0.831,0.782,0.781,0.791,0.806,0.749,0.782,(5.7875)+(0.0149)Thr+(-0.0248)Arg+(-0.0300)Val+(0.0245)Orn+(0.0525)Leu+(-0.1554)Trp;0.794,0.828,0.750,0.716,0.757,0.822,0.772,0.767,(5.3903)+(0.0049)Gly+(-0.1219)His+(-0.0031)Tyr+(-0.1568)Met+(0.0210)Orn+(0.0615)Ile;0.794,0.828,0.774,0.751,0.765,0.821,0.818,0.789,(5.0266)+(-0.031

6)Asn+(-0.1294)His+(-0.0048)Ala+(0.0266)Orn+(-0.0008)Leu+(0.0754)Phe;0.794,0.827,0.786,0.776,0.781,0.833,0.787,0.794,(3.8286)+(0.0097)Gln+(-0.1389)His+(0.0071)Pro+(-0.1475)Met+(0.0202)Orn+(0.0034)Lys;0.794,0.826,0.804,0.802,0.827,0.813,0.755,0.799,(6.7473)+(0.0036)Gly+(-0.0675)Cit+(-0.0932)Met+(0.0034)Lys+(0.0194)Leu+(-0.1492)Trp;0.794,0.826,0.731,0.698,0.759,0.835,0.684,0.744,(4.2148)+(0.0348)Ser+(-0.1298)His+(0.0019)Thr+(-0.0546)Cit+(-0.0114)Arg+(0.0421)Orn;0.794,0.825,0.779,0.751,0.766,0.832,0.843,0.798,(6.2175)+(-0.1066)His+(-0.0064)Ala+(0.0064)Pro+(-0.1459)Met+(0.0050)Lys+(0.0622)Ile;0.794,0.824,0.749,0.731,0.730,0.814,0.789,0.766,(4.0117)+(0.0048)Gly+(-0.1403)His+(-0.0063)Ala+(0.0061)Pro+(0.0025)Leu+(0.0800)Phe;0.794,0.822,0.724,0.694,0.724,0.822,0.730,0.743,(3.7683)+(0.0409)Ser+(-0.1372)His+(-0.0123)Arg+(-0.0065)Tyr+(-0.0162)Val+(0.0447)Leu;0.794,0.827,0.817,0.833,0.812,0.803,0.795,0.811,(4.5865)+(-0.0010)Gly+(0.0055)Gln+(0.0089)Pro+(-0.1787)Met+(0.0057)Lys+(-0.1408)Trp;0.794,0.826,0.811,0.814,0.812,0.827,0.791,0.811,(8.9045)+(-0.0057)Asn+(-0.0744)His+(0.0001)Ala+(0.0023)Arg+(-0.0087)Met+(-0.0943)Trp;0.794,0.825,0.791,0.777,0.791,0.839,0.792,0.800,(4.0820)+(-0.0516)Asn+(0.0118)Gln+(-0.1491)His+(-0.0167)Arg+(0.0210)Orn+(0.0092)Leu;0.794,0.825,0.789,0.794,0.722,0.855,0.867,0.810,(1.8733)+(-0.1005)Asn+(0.0031)Gly+(-0.0107)Ala+(0.1652)Ile+(-0.0927)Leu+(0.0695)Phe;0.794,0.822,0.813,0.813,0.798,0.853,0.814,0.820,(4.5306)+(-0.0427)Asn+(0.0125)Gln+(-0.1406)His+(-0.0021)Ala+(-0.0141)Arg+(0.0036)Val;0.794,0.833,0.831,0.839,0.820,0.833,0.834,0.831,(4.7947)+(0.0063)Gln+(-0.0051)Arg+(-0.0247)Val+(-0.1596)Met+(0.0554)Leu+(-0.1354)Trp;0.794,0.827,0.816,0.826,0.816,0.829,0.780,0.813,(7.1620)+(-0.0767)Asn+(-0.0012)Gly+(0.0171)Thr+(-0.0040)Ala+(0.0204)Orn+(-0.1380)Trp;0.794,0.825,0.775,0.745,0.761,0.834,0.840,0.795,(5.9509)+(0.0335)Asn+(-0.1123)His+(-0.0050)Ala+(0.0022)Arg+(-0.1579)Met+(0.0731)Ile;0.794,0.829,

0.805,0.806,0.818,0.820,0.767,0.803,(5.9733)+(0.0258)Thr+(-0.0034)Ala+(0.0176)Tyr+(-0.2053)Met+(0.0187)Leu+(-0.1527)Trp;0.794,0.829,0.763,0.752,0.752,0.803,0.784,0.773,(5.0600)+(-0.1295)His+(-0.0032)Ala+(-0.0097)Arg+(-0.0398)Tyr+(0.0324)Orn+(0.0935)Phe;0.794,0.826,0.738,0.694,0.744,0.810,0.787,0.759,(5.8137)+(-0.0352)Asn+(-0.1367)His+(0.0159)Thr+(0.0194)Orn+(-0.0071)Lys+(0.0428)Ile;0.794,0.840,0.730,0.693,0.766,0.833,0.678,0.743,(0.0099)+(0.0462)Ser+(-0.1003)Cit+(-0.2744)Met+(0.0323)Orn+(-0.0171)Lys+(0.0690)Ile;0.794,0.826,0.757,0.741,0.754,0.812,0.770,0.769,(5.0257)+(-0.1416)His+(0.0224)Thr+(-0.0042)Ala+(-0.0197)Arg+(-0.0060)Val+(0.0956)Phe;0.794,0.825,0.731,0.691,0.754,0.833,0.713,0.748,(3.9063)+(0.0375)Ser+(-0.0025)Gly+(-0.1335)His+(-0.0598)Cit+(0.0013)Val+(0.0405)Orn;0.794,0.822,0.754,0.745,0.672,0.830,0.894,0.785,(2.1397)+(-0.0002)Gly+(-0.0023)Gln+(-0.0112)Ala+(-0.0559)Val+(0.1718)Ile+(0.0417)Phe;0.794,0.822,0.748,0.759,0.680,0.790,0.834,0.765,(2.5864)+(-0.0018)Gly+(-0.0281)Arg+(-0.0584)Tyr+(-0.0566)Val+(0.1613)Ile+(0.0732)Phe;0.794,0.822,0.730,0.696,0.730,0.805,0.767,0.750,(5.4720)+(-0.0479)Asn+(0.0038)Gly+(-0.1385)His+(0.0151)Thr+(-0.0026)Pro+(0.0499)Ile;0.794,0.828,0.790,0.776,0.784,0.835,0.808,0.801,(3.4667)+(0.0113)Gln+(-0.1463)His+(0.0059)Pro+(-0.1650)Met+(0.0019)Lys+(0.0177)Leu;0.794,0.828,0.817,0.817,0.822

,0.837,0.794,0.817,(9.1515)+(-0.0115)Asn+(-0.0630)His+(-0.0003)Ala+(-0.0368)Cit+(0.0079)Arg+(-0.0995)Trp;0.794,0.825,0.806,0.817,0.811,0.795,0.776,0.800,(6.6072)+(-0.0368)Asn+(0.0011)Gly+(0.0093)Pro+(-0.1287)Met+(0.0099)Lys+(-0.1353)Trp;0.794,0.824,0.776,0.768,0.782,0.843,0.739,0.783,(7.3887)+(-0.0999)His+(0.0279)Thr+(-0.0044)Ala+(-0.0387)Cit+(0.0117)Pro+(-0.1600)Met;0.794,0.823,0.752,0.729,0.761,0.831,0.738,0.765,(4.6692)+(0.0467)Ser+(-0.0530)Asn+(-0.0028)Gly+(-0.1195)His+(-0.0277)Cit+(0.0049)Val;0.794,0.817,0.733,0.702,0.744,0.824,0.725,0.749,(

4.0250)+(0.0412)Ser+(-0.0033)Gly+(-0.1375)His+(0.0043)Thr+(-0.0302)Cit+(0.0050)Val;0.794,0.833,0.791,0.789,0.796,0.801,0.774,0.790,(3.3354)+(0.0407)Ser+(-0.0081)Gly+(0.0017)Gln+(-0.0203)Arg+(0.0103)Leu+(-0.1586)Trp;0.794,0.829,0.791,0.792,0.779,0.785,0.818,0.793,(4.3081)+(-0.0017)Gly+(0.0036)Gln+(-0.0212)Tyr+(-0.0083)Lys+(0.0567)Ile+(-0.1590)Trp;0.794,0.828,0.809,0.808,0.815,0.827,0.784,0.808,(8.6255)+(-0.0762)His+(-0.0009)Ala+(-0.0288)Cit+(-0.0015)Arg+(0.0114)Lys+(-0.1060)Trp;0.794,0.827,0.753,0.737,0.763,0.839,0.714,0.763,(4.3590)+(0.0453)Ser+(-0.0202)Asn+(-0.1212)His+(-0.0069)Arg+(0.0080)Val+(-0.0964)Met;0.794,0.824,0.793,0.782,0.785,0.841,0.799,0.802,(4.4620)+(-0.0645)Asn+(0.0101)Gln+(-0.1392)His+(-0.0013)Val+(0.0237)Orn+(0.0006)Lys;0.794,0.823,0.794,0.777,0.799,0.855,0.785,0.804,(4.6877)+(-0.0695)Asn+(0.0106)Gln+(-0.1267)His+(-0.0675)Cit+(-0.0017)Val+(0.0426)Orn;0.794,0.823,0.812,0.825,0.819,0.811,0.762,0.805,(7.4013)+(-0.0866)Asn+(-0.0011)Gly+(0.0185)Thr+(-0.0035)Val+(0.0035)Lys+(-0.1397)Trp;0.794,0.822,0.812,0.814,0.826,0.830,0.764,0.808,(6.9640)+(0.0028)Gly+(-0.0038)Ala+(-0.0780)Cit+(0.0059)Arg+(0.0076)Val+(-0.1488)Trp;0.794,0.831,0.822,0.807,0.837,0.829,0.825,0.824,(7.2091)+(-0.0541)Cit+(0.0305)Tyr+(-0.0224)Val+(-0.1359)Met+(0.0551)Leu+(-0.1449)Trp;0.794,0.830,0.794,0.794,0.793,0.809,0.786,0.795,(3.5411)+(0.0401)Ser+(-0.0086)Gly+(0.0011)Gln+(0.0021)Val+(-0.0070)Lys+(-0.1489)Trp;0.794,0.825,0.787,0.763,0.795,0.847,0.792,0.799,(4.1853)+(-0.0688)Asn+(0.0110)Gln+(-0.1377)His+(-0.0645)Cit+(0.0360)Orn+(0.0086)Leu;0.794,0.817,0.732,0.706,0.723,0.793,0.777,0.750,(4.0173)+(0.0041)Gly+(-0.1427)His+(0.0023)Pro+(-0.0187)Val+(0.0279)Leu+(0.0768)Phe;0.794,0.826,0.733,0.704,0.732,0.794,0.767,0.749,(3.9956)+(-0.1493)His+(0.0117)Thr+(0.0005)Pro+(-0.0088)Val+(0.0217)Orn+(0.0796)Phe;0.794,0.835,0.744,0.736,0.715,0.842,0.756,0.762,(-0.5430)+(0.0399)Ser+(0.0007)Gln+(-0.3011)Met+(-0.0038)Lys+(0.1696)Ile+(-0.0731

)Leu;0.794,0.830,0.796,0.798,0.743,0.862,0.855,0.814,(2.1747)+(0.0040)Gln+(-0.0093)Ala+(0.0065)Pro+(-0.2315)Met+(0.1722)Ile+(-0.0789)Leu;0.794,0.828,0.799,0.791,0.793,0.847,0.798,0.807,(4.2471)+(-0.0372)Asn+(0.0104)Gln+(-0.1356)His+(-0.0941)Met+(0.0237)Orn+(0.0036)Lys;0.794,0.827,0.782,0.770,0.773,0.803,0.813,0.790,(4.7849)+(-0.1133)His+(-0.0040)Ala+(0.0100)Pro+(-0.0183)Tyr+(-0.1611)Met+(0.1175)Phe;0.794,0.821,0.723,0.697,0.739,0.822,0.688,0.736,(3.9572)+(0.0392)Ser+(-0.1380)His+(0.0045)Thr+(-0.0185)Arg+(0.0062)Pro+(0.0026)Val;0.794,0.831,0.789,0.782,0.737,0.861,0.863,0.811,(2.2871)+(-0.0130)Ala+(-0.0976)Cit+(-0.0103)Lys+(0.1831)Ile+(-0.0905)Leu+(0.0741)Phe;0.794,0.828,0.750,0.716,0.758,0.821,0.771,0.766,(5.3994)+(0.0051)Gly+(-0.1216)His+(-0.0024)Arg+(-0.1585)Met+(0.0211)Orn+(0.0610)Ile;0.794,0.822,0.749,0.736,0.752,0.833,0.718,0.760,(5.1528)+(0.0414)Ser+(-0.0054)Gly+(-0.1263)His+(0.0121)Thr+(-0.0171)Arg+(-0.0136)Tyr;0.794,0.819,0.716,0.710,0.671,0.822,0.754,0.739,(0.6281)+(0.0269)Ser+(-0.0432)Arg+(-0.0449)Val+(0.0164)Orn+(0.1955)Ile+(-0.0424)Leu;0.794,0.818,0.716,0.678,0.736,0.815,0.705,0.734,(3.4031)+(0.0423)Ser+(-0.1420)His+(-0.0235)Cit+(-0.0118)Arg+(0.0045)Pro+(0.0171)Leu;0.794,0.831,0.835,0.853,0.832,0.839,0.788,0.828,(5.5297)+(-0.0813)Asn+(0.0064)Gln+(-0.0136)Arg+(-0.0046)Val+(0.0262)Orn+(-0.1301)Trp;0.794,0.828,0.809,0.825,0.805,0.808,0.777,0.804,(4.4733)+(0.0048)Gln+(0.0079)Pro+(-0.1803)Met+(0.0138)Orn+(0.0039)Lys+(-0.1394)Trp;0.794,0.828,0.813,0.830,0.813,0.818,0.764,0.806,(4.7751)+(0.0056)Gln+(-0.0128)Arg+(0.0078)Pro+(-0.1576)Met+(0.0195)Orn+(-0.1346)Trp;0.794,0.824,0.751,0.721,0.763,0.819,0.758,0.765,(5.6535)+(0.0073)Gly+(-0.1078)His+(-0.0439)Cit+(0.0023)Pro+(-0.1606)Met+(0.0667)Ile;0.794,0.824,0.800,0.798,0.783,0.848,0.810,0.810,(4.2299)+(0.0107)Gln+(-0.1307)His+(-0.0033)Ala+(0.0103)Pro+(0.0054)Tyr+(-0.1263)Met;0.794,0.823,0.818,0.829,0.832,0.825,0.753,0.810,(7.6879)+(-0.0416)Asn+(0.0032

)Gly+(-0.0590)Cit+(-0.0538)Met+(0.0096)Lys+(-0.1350)Trp;0.794,0.821,0.731,0.706,0.727,0.799,0.758,0.747,(5.9817)+(-0.1280)His+(0.0182)Thr+(-0.0386)Cit+(-0.0007)Pro+(-0.0363)Tyr+(0.0552)Ile;0.794,0.830,0.805,0.819,0.806,0.808,0.765,0.799,(6.9640)+(-0.0668)Asn+(0.0067)Pro+(-0.0099)Tyr+(-0.0060)Val+(0.0274)Orn+(-0.1226)Trp;0.794,0.829,0.786,0.796,0.776,0.798,0.775,0.786,(4.9694)+(0.0017)Gln+(0.0106)Thr+(-0.0169)Tyr+(-0.0238)Val+(0.0469)Leu+(-0.1573)Trp;0.794,0.823,0.732,0.702,0.732,0.792,0.767,0.748,(3.9499)+(-0.0376)Asn+(0.0067)Gly+(-0.1414)His+(-0.0087)Arg+(0.0337)Ile+(0.0655)Phe;0.794,0.821,0.780,0.769,0.757,0.834,0.814,0.794,(4.0108)+(0.0090)Gln+(-0.1477)His+(-0.0050)Ala+(0.0069)Pro+(-0.0154)Tyr+(0.0153)Leu;0.794,0.830,0.740,0.748,0.742,0.769,0.693,0.738,(-2.8602)+(0.0549)Ser+(-0.0941)Asn+(0.0102)Pro+(-0.3309)Met+(-0.0116)Leu+(0.1183)Phe;0.794,0.822,0.781,0.761,0.761,0.823,0.844,0.797,(5.6920)+(-0.0464)Asn+(-0.1169)His+(-0.0034)Ala+(-0.0229)Val+(0.0369)Leu+(0.0851)Phe;0.794,0.824,0.721,0.697,0.724,0.818,0.706,0.736,(3.8023)+(0.0384)Ser+(-0.1357)His+(0.0071)Pro+(-0.0172)Tyr+(0.0050)Val+(-0.0032)Lys;0.794,0.833,0.742,0.722,0.720,0.838,0.768,0.762,(-0.9064)+(0.0436)Ser+(0.0096)Thr+(-0.0074)Ala+(-0.2981)Met+(-0.0132)Lys+(0.0864)Ile;0.794,0.829,0.820,0.814,0.831,0.826,0.812,0.821,(7.1892)+(-0.0033)Ala+(-0.0711)Cit+(0.0114)Arg+(-0.0696)Met+(0.0232)Leu+(-0.1470)Trp;0.794,0.826,0.761,0.737,0.770,0.825,0.755,0.772,(6.6615)+(-0.1321)His+(0.0331)Thr+(-0.0024)Ala+(-0.0009)Tyr+(-0.1924)Met+(0.0269)Leu;0.794,0.824,0.800,0.796,0.790,0.840,0.802,0.807,(4.1007)+(-0.0260)Asn+(0.0116)Gln+(-0.1350)His+(0.0073)Pro+(0.0021)Val+(-0.1157)Met;0.794,0.823,0.792,0.782,0.790,0.839,0.785,0.799,(4.3146)+(-0.0520)Asn+(0.0115)Gln+(-0.1422)His+(-0.0175)Arg+(0.0033)Pro+(0.0233)Orn;0.794,0.821,0.745,0.723,0.749,0.834,0.728,0.758,(4.7205)+(0.0404)Ser+(-0.0041)Gly+(-0.1265)His+(0.0075)Thr+(-0.0273)Cit+(-0.0036)Lys;0.794,0.829,0.829,0.

847,0.819,0.822,0.806,0.823,(5.5163)+(-0.0871)Asn+(0.0064)Gln+(0.0068)Pro+(-0.0080)Tyr+(-0.0035)Val+(-0.1322)Trp;0.794,0.822,0.791,0.779,0.788,0.839,0.798,0.801,(3.9628)+(-0.0679)Asn+(0.0027)Gly+(0.0118)Gln+(-0.1422)His+(-0.0428)Cit+(0.0157)Leu;0.794,0.821,0.774,0.769,0.761,0.832,0.777,0.784,(4.5291)+(0.0071)Gln+(-0.1441)His+(0.0077)Thr+(-0.0028)Ala+(-0.0161)Tyr+(0.0250)Orn;0.794,0.820,0.721,0.698,0.659,0.818,0.841,0.754,(0.9454)+(0.0404)Ser+(-0.0097)Gly+(-0.0453)Val+(-0.0211)Lys+(0.1779)Ile+(-0.0219)Leu;0.794,0.820,0.752,0.734,0.749,0.845,0.741,0.767,(4.7626)+(0.0392)Ser+(-0.0038)Gly+(-0.1235)His+(0.0079)Thr+(-0.0026)Ala+(-0.0298)Cit;0.794,0.819,0.757,0.748,0.692,0.845,0.849,0.784,(3.4484)+(0.0000)Gln+(-0.0096)Ala+(-0.0286)Arg+(-0.0572)Val+(0.0284)Orn+(0.1795)Ile;0.794,0.828,0.797,0.802,0.788,0.796,0.806,0.798,(4.8101)+(-0.0018)Gly+(0.0019)Gln+(-0.0260)Val+(0.0198)Orn+(0.0452)Leu+(-0.1546)Trp;0.794,0.827,0.790,0.772,0.792,0.809,0.821,0.799,(4.5609)+(-0.1255)His+(-0.0022)Ala+(-0.0011)Arg+(-0.1838)Met+(0.0082)Lys+(0.1150)Phe;0.794,0.830,0.788,0.766,0.788,0.812,0.828,0.798,(4.9338)+(-0.1076)His+(-0.0191)Cit+(-0.0239)Val+(-0.1953)Met+(0.0422)Leu+(0.1164)Phe;0.794,0.828,0.802,0.806,0.782,0.823,0.817,0.807,(4.9204)+(0.0021)Gln+(0.0114)Thr+(-0.0058)Ala+(-0.0241)Val+(0.0520)Leu+(-0.1573)Trp;0.794,0.823,0.743,0.733,0.726,0.791,0.771,0.755,(4.3659)+(0.0037)Gly+(-0.1358)His+(-0.0333)Tyr+(-0.0149)Val+(0.0248)Leu+(0.0967)Phe;0.794,0.822,0.732,0.723,0.643,0.846,0.859,0.768,(0.2411)+(0.0200)Ser+(-0.0126)Ala+(0.0041)Pro+(-0.0526)Val+(0.0059)Orn+(0.1665)Ile;0.794,0.817,0.761,0.749,0.708,0.843,0.844,0.786,(5.4087)+(-0.1511)Asn+(0.0181)Thr+(-0.0024)Pro+(-0.0580)Val+(-0.0044)Lys+(0.1738)Ile;0.794,0.832,0.821,0.834,0.821,0.815,0.789,0.815,(5.3061)+(-0.1086)Asn+(0.0055)Gln+(0.0151)Thr+(-0.0012)Lys+(0.0071)Leu+(-0.1511)Trp;0.794,0.829,0.760,0.768,0.771,0.802,0.683,0.756,(-2.1482)+(0.0481)Ser+(-0.0741)Cit+(-0.0078)Val+(-0

.3285)Met+(-0.0061)Lys+(0.1354)Phe;0.794,0.829,0.812,0.812,0.821,0.824,0.787,0.811,(8.6496)+(-0.0740)His+(-0.0264)Cit+(-0.0004)Arg+(-0.0503)Met+(0.0139)Lys+(-0.1043)Trp;0.794,0.824,0.740,0.748,0.664,0.836,0.807,0.764,(1.1329)+(0.0247)Ser+(-0.0020)Gln+(-0.0104)Ala+(-0.0365)Tyr+(0.1733)Ile+(-0.0811)Leu;0.794,0.823,0.718,0.718,0.695,0.823,0.690,0.731,(1.2081)+(0.0198)Ser+(-0.1070)Cit+(-0.0569)Tyr+(0.0333)Orn+(0.1561)Ile+(-0.0833)Leu;0.794,0.821,0.757,0.748,0.680,0.842,0.876,0.787,(3.5523)+(-0.0007)Gln+(0.0066)Thr+(-0.0099)Ala+(-0.0516)Val+(-0.0129)Lys+(0.1776)Ile;0.794,0.821,0.754,0.754,0.674,0.836,0.860,0.781,(3.7457)+(0.0090)Thr+(-0.0090)Ala+(-0.0251)Tyr+(-0.0497)Val+(-0.0120)Lys+(0.1755)Ile;0.794,0.820,0.793,0.795,0.780,0.848,0.775,0.800,(4.6994)+(-0.0007)Gly+(0.0102)Gln+(-0.1479)His+(0.0144)Thr+(-0.0024)Ala+(-0.0227)Arg;0.794,0.819,0.713,0.698,0.669,0.811,0.774,0.738,(-0.8157)+(0.0285)Ser+(-0.0401)Cit+(-0.0360)Arg+(-0.0571)Val+(0.1581)Ile+(0.0474)Phe;0.794,0.830,0.792,0.786,0.789,0.787,0.819,0.795,(3.9966)+(-0.0013)Gly+(0.0030)Gln+(0.0033)Orn+(-0.0104)Lys+(0.0537)Ile+(-0.1662)Trp;0.794,0.827,0.760,0.733,0.746,0.826,0.815,0.780,(6.2772)+(-0.1213)His+(-0.0057)Ala+(-0.0070)Arg+(-0.0226)Tyr+(0.0294)Orn+(0.0545)Ile;0.794,0.823,0.810,0.798,0.797,0.851,0.837,0.821,(4.3343)+(-0.0571)Asn+(0.0123)Gln+(-0.1374)His+(-0.0039)Ala+(-0.0426)Cit+(0.0189)Leu;0.794,0.829,0.761,0.762,0.758,0.782,0.753,0.764,(-2.5144)+(0.0613)Ser+(-0.0936)Asn+(-0.0055)Gly+(-0.3080)Met+(0.0080)Orn+(0.1027)Phe;0.793,0.826,0.778,0.761,0.781,0.795,0.804,0.785,(4.3622)+(0.0130)Asn+(-0.1153)His+(0.0078)Pro+(-0.0064)Val+(-0.2095)Met+(0.1234)Phe;0.793,0.821,0.731,0.709,0.743,0.830,0.690,0.743,(4.2908)+(0.0379)Ser+(-0.1393)His+(0.0074)Thr+(-0.0167)Arg+(0.0051)Val+(-0.0016)Lys;0.793,0.830,0.741,0.722,0.757,0.809,0.711,0.750,(-0.1479)+(0.0510)Ser+(-0.0574)Asn+(-0.0722)Cit+(0.0009)Arg+(-0.2788)Met+(0.0668)Ile;0.793,0.829,0.760,0.736,0.744,0.819,0.

810,0.778,(4.4935)+(-0.1359)H
is+(-0.0064)Ala+(0.0055)Pro+(0.0229)Orn+(-0.0009)Leu+(0.0702)Phe;0.79
3,0.836,0.741,0.732,0.714,0.840,0.753,0.760,(-0.6049)+(0.0405)Ser+(0.
0014)Pro+(0.0016)Tyr+(-0.3162)Met+(0.1684)Ile+(-0.0747)Leu;0.793,0.82
9,0.795,0.793,0.781,0.827,0.805,0.802,(5.9312)+(0.0169)Thr+(-0.0053)A
la+(-0.0257)Val+(-0.0066)Lys+(0.0582)Leu+(-0.1519)Trp;0.793,0.827,0.8
27,0.836,0.838,0.832,0.777,0.821,(5.3922)+(0.0005)Gly+(0.0056)Gln+(-0
.0751)Cit+(0.0010)Tyr+(-0.0011)Lys+(-0.1536)Trp;0.793,0.825,0.747,0.7
35,0.757,0.836,0.697,0.756,(5.1045)+(0.0391)Ser+(-0.0629)Asn+(-0.1226
)His+(0.0116)Thr+(-0.0155)Arg+(0.0037)Lys;0.793,0.822,0.747,0.727,0.7
57,0.833,0.717,0.758,(4.6119)+(0.0434)Ser+(-0.0535)Asn+(-0.1203)His+(
-0.0320)Cit+(0.0056)Val+(-0.0004)Lys;0.793,0.820,0.734,0.725,0.692,0.
820,0.781,0.754,(3.2285)+(0.0001)Thr+(-0.0929)Cit+(-0.0510)Tyr+(-0.04
87)Val+(0.0445)Orn+(0.1465)Ile;0.793,0.829,0.747,0.724,0.763,0.807,0.
734,0.757,(6.4144)+(-0.1308)His+(0.0326)Thr+(0.0055)Pro+(-0.0090)Tyr+
(-0.2076)Met+(0.0231)Leu;0.793,0.828,0.800,0.781,0.809,0.823,0.816,0.
807,(8.7813)+(-0.0748)His+(-0.0298)Cit+(-0.0153)Val+(-0.0358)Met+(0.0
509)Leu+(-0.1102)Trp;0.793,0.821,0.780,0.774,0.759,0.840,0.796,0.792,
(4.4066)+(0.0082)Gln+(-0.1439)His+(0.0077)Thr+(-0.0048)Ala+(0.0072)Pr
o+(-0.0021)Lys;0.793,0.831,0.792,0.796,0.787,0.804,0.786,0.793,(3.652
6)+(0.0379)Ser+(-0.0086)Gly+(0.0010)Gln+(-0.0141)Tyr+(0.0012)Val+(-0.
1487)Trp;0.793,0.828,0.835,0.833,0.851,0.839,0.805,0.832,(7.3153)+(-0
.0020)Ala+(-0.0574)Cit+(0.0282)Tyr+(-0.1078)Met+(0.0081)Lys+(-0.1419)
Trp;0.793,0.828,0.748,0.719,0.769,0.815,0.733,0.759,(6.1781)+(0.0041)
Asn+(-0.1381)His+(0.0297)Thr+(-0.2048)Met+(0.0206)Orn+(0.0222)Leu;0.7
93,0.817,0.719,0.687,0.735,0.819,0.699,0.735,(3.6621)+(0.0383)Ser+(-0
.1373)His+(0.0013)Thr+(-0.0343)Cit+(0.0054)Pro+(0.0038)Val;0.793,0.82
5,0.820,0.812,0.831,0.844,0.804,0.823,(9.1664)+(-0.0094)Asn+(-0.0673)

His+(-0.0014)Ala+(-0.0353)Cit+(0.0256)Tyr+(-0.1072)Trp;0.793,0.824,0.767,0.743,0.766,0.825,0.791,0.781,(3.7486)+(0.0087)Gln+(-0.1588)His+(0.0010)Pro+(0.0184)Orn+(-0.0066)Lys+(0.0123)Leu;0.793,0.821,0.749,0.725,0.717,0.824,0.827,0.773,(5.9543)+(-0.0874)His+(-0.0264)Cit+(-0.0088)Arg+(-0.0005)Pro+(-0.0366)Val+(0.1360)Ile;0.793,0.818,0.760,0.739,0.748,0.827,0.797,0.777,(7.3903)+(-0.0718)Asn+(-0.1183)His+(0.0260)Thr+(-0.0029)Ala+(-0.0280)Val+(0.0580)Leu;0.793,0.830,0.793,0.800,0.816,0.800,0.724,0.785,(6.7009)+(-0.0017)Gly+(0.0309)Thr+(-0.0128)Arg+(-0.1926)Met+(0.0165)Leu+(-0.1503)Trp;0.793,0.829,0.793,0.802,0.793,0.836,0.738,0.792,(3.8754)+(0.0317)Ser+(-0.0038)Ala+(-0.0163)Arg+(0.0054)Tyr+(0.0034)Val+(-0.1448)Trp;0.793,0.826,0.804,0.810,0.735,0.864,0.887,0.824,(1.2571)+(-0.1124)Asn+(0.0037)Gln+(-0.0107)Ala+(0.1636)Ile+(-0.0928)Leu+(0.0646)Phe;0.793,0.823,0.769,0.756,0.765,0.846,0.754,0.780,(5.2462)+(0.0473)Ser+(-0.0458)Asn+(-0.0042)Gly+(-0.1114)His+(-0.0010)Ala+(-0.0089)Arg;0.793,0.819,0.765,0.767,0.691,0.835,0.862,0.789,(4.2889)+(-0.0004)Gly+(-0.0084)Ala+(-0.0199)Arg+(-0.0198)Tyr+(-0.0527)Val+(0.1796)Ile;0.793,0.830,0.797,0.803,0.807,0.813,0.748,0.793,(6.1095)+(0.0264)Thr+(-0.0029)Ala+(-0.1848)Met+(-0.0001)Lys+(0.0194)Leu+(-0.1490)Trp;0.793,0.828,0.778,0.786,0.781,0.809,0.728,0.776,(3.2373)+(0.0291)Ser+(0.0005)Gln+(-0.0003)Thr+(0.0017)Val+(-0.0059)Lys+(-0.1484)Trp;0.793,0.819,0.766,0.760,0.697,0.843,0.868,0.792,(3.9185)+(0.0004)Gly+(-0.0091)Ala+(-0.0194)Arg+(-0.0534)Val+(-0.0046)Lys+(0.1814)Ile;0.793,0.817,0.769,0.750,0.764,0.820,0.794,0.782,(3.6853)+(0.0006)Gly+(0.0094)Gln+(-0.1591)His+(0.0017)Pro+(-0.0052)Lys+(0.0145)Leu;0.793,0.821,0.761,0.742,0.750,0.826,0.788,0.777,(4.1422)+(0.0073)Gln+(-0.1477)His+(-0.0184)Tyr+(-0.0174)Val+(0.0258)Orn+(0.0378)Leu;0.793,0.827,0.818,0.811,0.822,0.827,0.822,0.820,(7.5471)+(-0.0024)Ala+(-0.0544)Cit+(-0.0185)Val+(-0.0701)Met+(0.0522)Leu+(-0.1390)Trp;0.793,0.827,0.771,0

.749,0.778,0.784,0.806,0.779,(3.9228)+(0.0202)Asn+(-0.1290)His+(0.0063)Pro+(-0.2342)Met+(0.0064)Lys+(0.1135)Phe;0.793,0.823,0.748,0.728,0.755,0.833,0.725,0.760,(4.8193)+(0.0418)Ser+(-0.0047)Gly+(-0.1307)His+(0.0093)Thr+(-0.0169)Arg+(-0.0004)Lys;0.793,0.822,0.743,0.725,0.750,0.794,0.742,0.753,(4.9850)+(-0.1462)His+(0.0224)Thr+(-0.0192)Arg+(-0.0076)Val+(-0.0030)Lys+(0.0939)Phe;0.793,0.820,0.713,0.681,0.727,0.808,0.699,0.729,(3.7141)+(0.0374)Ser+(-0.1433)His+(0.0077)Thr+(-0.0351)Cit+(-0.0194)Tyr+(0.0222)Leu;0.793,0.819,0.740,0.712,0.751,0.827,0.732,0.755,(4.2268)+(0.0445)Ser+(-0.0034)Gly+(-0.1315)His+(-0.0290)Cit+(0.0070)Val+(-0.0052)Lys;0.793,0.829,0.804,0.813,0.811,0.801,0.772,0.799,(6.4873)+(-0.0375)Asn+(0.0077)Pro+(-0.1289)Met+(0.0196)Orn+(0.0069)Lys+(-0.1341)Trp;0.793,0.827,0.738,0.712,0.734,0.816,0.759,0.755,(5.1683)+(0.0035)Gly+(-0.1135)His+(-0.0178)Arg+(0.0253)Orn+(0.1113)Ile+(-0.0498)Leu;0.793,0.827,0.790,0.782,0.792,0.799,0.797,0.793,(5.3894)+(0.0020)Gly+(-0.0040)Arg+(-0.1710)Met+(0.0025)Lys+(0.0655)Ile+(-0.1442)Trp;0.793,0.825,0.813,0.808,0.814,0.822,0.818,0.816,(7.2527)+(-0.0039)Ala+(-0.0627)Cit+(-0.0158)Val+(-0.0004)Lys+(0.0468)Leu+(-0.1487)Trp;0.793,0.825,0.724,0.684,0.732,0.808,0.754,0.745,(3.6828)+(0.0074)Gly+(-0.1361)His+(-0.0542)Cit+(-0.0103)Lys+(0.0443)Ile+(0.0709)Phe;0.793,0.823,0.778,0.762,0.764,0.837,0.806,0.792,(4.0634)+(0.0083)Gln+(-0.1513)His+(-0.0038)Ala+(-0.0155)Tyr+(0.0220)Orn+(0.0151)Leu;0.793,0.834,0.748,0.724,0.723,0.838,0.797,0.770,(-1.2712)+(0.0475)Ser+(-0.0077)Ala+(0.0110)Tyr+(-0.2894)Met+(-0.0122)Lys+(0.0871)Ile;0.793,0.829,0.802,0.792,0.794,0.842,0.819,0.812,(3.7437)+(-0.0242)Asn+(0.0119)Gln+(-0.1459)His+(-0.1258)Met+(0.0020)Lys+(0.0194)Leu;0.793,0.828,0.809,0.827,0.799,0.829,0.764,0.805,(5.2598)+(0.0037)Gln+(0.0127)Thr+(-0.0068)Ala+(-0.0215)Arg+(0.0095)Pro+(-0.1494)Trp;0.793,0.828,0.766,0.752,0.769,0.854,0.735,0.777,(4.6172)+(0.0432)Ser+(-0.0325)Asn+(-0.1115)His+(-0

.0005)Ala+(0.0186)Tyr+(-0.1042)Met;0.793,0.825,0.808,0.794,0.802,0.85
4,0.824,0.818,(3.8347)+(0.0121)Gln+(-0.1380)His+(-0.0027)Ala+(-0.0396
)Cit+(-0.1238)Met+(0.0245)Leu;0.793,0.824,0.766,0.762,0.766,0.837,0.7
29,0.773,(6.7827)+(0.0019)Gly+(-0.1107)His+(0.0252)Thr+(-0.0037)Ala+(
0.0109)Pro+(-0.1608)Met;0.793,0.820,0.810,0.811,0.790,0.854,0.814,0.8
17,(4.7285)+(-0.0563)Asn+(0.0006)Gly+(0.0111)Gln+(-0.1334)His+(-0.001
7)Ala+(-0.0014)Tyr;0.793,0.820,0.761,0.757,0.689,0.841,0.865,0.788,(3
.4881)+(0.0008)Gln+(-0.0108)Ala+(-0.0249)Arg+(0.0068)Pro+(-0.0550)Val
+(0.1764)Ile;0.793,0.831,0.776,0.743,0.798,0.819,0.788,0.787,(4.5943)
+(-0.1181)His+(-0.0554)Cit+(-0.1709)Met+(0.0386)Orn+(0.0014)Lys+(0.10
07)Phe;0.793,0.827,0.790,0.770,0.791,0.812,0.825,0.799,(4.5629)+(-0.1
262)His+(-0.0024)Ala+(-0.1856)Met+(0.0073)Lys+(0.0035)Leu+(0.1120)Phe
;0.793,0.828,0.787,0.774,0.788,0.799,0.812,0.793,(4.2996)+(0.0040)Asn
+(-0.1238)His+(-0.0068)Val+(-0.2027)Met+(0.0102)Lys+(0.1262)Phe;0.793
,0.821,0.769,0.738,0.747,0.836,0.849,0.792,(6.1050)+(-0.0077)Asn+(-0.
1175)His+(-0.0073)Ala+(0.0041)Pro+(-0.0013)Lys+(0.0552)Ile;0.793,0.82
1,0.733,0.725,0.722,0.772,0.747,0.741,(4.1531)+(0.0040)Gly+(-0.1391)H
is+(0.0043)Pro+(-0.0424)Tyr+(-0.0002)Leu+(0.0988)Phe;0.793,0.831,0.79
3,0.781,0.785,0.842,0.804,0.803,(3.5058)+(0.0015)Gly+(0.0110)Gln+(-0.
1490)His+(-0.1461)Met+(0.0016)Lys+(0.0213)Leu;0.793,0.829,0.750,0.733
,0.767,0.819,0.710,0.757,(6.2269)+(0.0016)Gly+(-0.1222)His+(0.0227)Th
r+(0.0067)Pro+(-0.1726)Met+(0.0255)Orn;0.793,0.825,0.745,0.740,0.736,
0.776,0.753,0.751,(4.5623)+(-0.0401)Asn+(0.0052)Gly+(-0.1305)His+(0.0
045)Pro+(-0.0398)Tyr+(0.1021)Phe;0.793,0.821,0.745,0.733,0.749,0.844,
0.700,0.756,(4.7782)+(0.0351)Ser+(-0.1294)His+(0.0095)Thr+(-0.0020)Al
a+(-0.0179)Arg+(0.0020)Lys;0.793,0.818,0.720,0.686,0.724,0.815,0.730,
0.739,(3.6561)+(0.0393)Ser+(-0.1361)His+(-0.0265)Cit+(-0.0098)Tyr+(-0
.0146)Val+(0.0430)Leu;0.793,0.817,0.758,0.765,0.676,0.832,0.858,0.783

,(3.5014)+(-0.0003)Gln+(-0.0090)Ala+(-0.0279)Tyr+(-0.0390)Val+(0.1951)Ile+(-0.0352)Leu;0.793,0.829,0.799,0.813,0.796,0.836,0.741,0.796,(3.5005)+(0.0292)Ser+(0.0020)Gln+(-0.0037)Ala+(-0.0178)Arg+(0.0033)Val+(-0.1455)Trp;0.793,0.826,0.777,0.781,0.766,0.844,0.743,0.783,(0.5903)+(0.0482)Ser+(-0.1385)Asn+(-0.0072)Ala+(-0.0816)Cit+(-0.0124)Lys+(0.0925)Phe;0.793,0.823,0.811,0.820,0.827,0.822,0.750,0.804,(7.5671)+(-0.0507)Asn+(0.0035)Gly+(-0.0677)Cit+(0.0031)Val+(0.0057)Lys+(-0.1436)Trp;0.793,0.820,0.752,0.740,0.702,0.837,0.827,0.777,(4.9105)+(-0.1722)Asn+(0.0016)Gly+(0.0124)Thr+(-0.0604)Val+(0.0260)Orn+(0.1683)Ile;0.793,0.822,0.761,0.754,0.691,0.840,0.868,0.788,(3.9973)+(-0.0105)Ala+(-0.0210)Arg+(0.0069)Pro+(-0.0538)Val+(-0.0044)Lys+(0.1772)Ile;0.793,0.817,0.791,0.786,0.777,0.836,0.799,0.799,(4.2371)+(-0.0669)Asn+(0.0012)Gly+(0.0108)Gln+(-0.1411)His+(0.0045)Pro+(0.0021)Lys;0.793,0.830,0.755,0.741,0.734,0.834,0.777,0.772,(-0.7206)+(0.0499)Ser+(-0.0494)Asn+(-0.0070)Ala+(-0.0096)Arg+(-0.2482)Met+(0.0766)Ile;0.793,0.829,0.816,0.800,0.836,0.831,0.805,0.818,(8.8624)+(-0.0742)His+(-0.0381)Cit+(0.0241)Tyr+(0.0085)Val+(-0.0470)Met+(-0.1167)Trp;0.793,0.830,0.746,0.720,0.765,0.813,0.729,0.757,(6.3201)+(-0.1368)His+(0.0299)Thr+(-0.0097)Tyr+(-0.1878)Met+(0.0223)Orn+(0.0224)Leu;0.793,0.826,0.799,0.795,0.793,0.853,0.785,0.806,(4.3986)+(0.0108)Gln+(-0.1362)His+(-0.0013)Ala+(-0.0160)Arg+(-0.0835)Met+(0.0293)Orn;0.793,0.825,0.733,0.695,0.756,0.835,0.713,0.750,(4.0029)+(0.0376)Ser+(-0.0026)Gly+(-0.1308)His+(-0.0009)Thr+(-0.0600)Cit+(0.0422)Orn;0.793,0.824,0.757,0.756,0.736,0.802,0.774,0.767,(4.4169)+(0.0041)Gly+(-0.1334)His+(-0.0027)Ala+(-0.0308)Tyr+(-0.0022)Val+(0.1062)Phe;0.793,0.819,0.784,0.769,0.762,0.842,0.826,0.800,(4.1401)+(0.0089)Gln+(-0.1470)His+(-0.0033)Ala+(-0.0069)Tyr+(-0.0136)Val+(0.0378)Leu;0.793,0.833,0.744,0.723,0.719,0.838,0.785,0.766,(-1.0164)+(0.0458)Ser+(-0.0075)Ala+(-0.2702)Met+(0.0059)Orn+(-0.0127)Lys+(

0.0848)Ile;0.793,0.830,0.754,0.736,0.729,0.831,0.797,0.773,(-1.1610)+(0.0536)Ser+(-0.0049)Gly+(-0.0071)Ala+(-0.0116)Arg+(-0.2888)Met+(0.0782)Ile;0.793,0.830,0.752,0.737,0.765,0.817,0.716,0.759,(6.4770)+(-0.1200)His+(0.0236)Thr+(0.0071)Pro+(-0.0112)Tyr+(-0.1576)Met+(0.0274)Orn;0.793,0.824,0.784,0.754,0.774,0.841,0.842,0.803,(6.7139)+(-0.0919)His+(-0.0076)Ala+(-0.0414)Cit+(0.0072)Pro+(-0.1196)Met+(0.0667)Ile;0.793,0.823,0.742,0.720,0.740,0.838,0.735,0.758,(4.0602)+(0.0387)Ser+(-0.1358)His+(-0.0030)Ala+(-0.0040)Tyr+(0.0085)Val+(-0.0028)Lys;0.793,0.822,0.744,0.754,0.677,0.789,0.822,0.760,(2.2743)+(-0.0293)Arg+(0.0003)Pro+(-0.0570)Tyr+(-0.0564)Val
+(0.1602)Ile+(0.0724)Phe;0.793,0.822,0.755,0.738,0.738,0.820,0.786,0.771,(4.1853)+(0.0050)Gly+(-0.1416)His+(-0.0047)Ala+(-0.0019)Lys+(0.0051)Leu+(0.0836)Phe;0.793,0.819,0.711,0.678,0.723,0.805,0.708,0.729,(3.4888)+(0.0402)Ser+(-0.1379)His+(-0.0325)Cit+(0.0056)Pro+(-0.0210)Tyr+(0.0193)Leu;0.793,0.818,0.766,0.763,0.708,0.840,0.842,0.788,(4.2360)+(-0.1826)Asn+(0.0014)Gly+(0.0034)Gln+(0.0142)Thr+(-0.0583)Val+(0.1676)Ile;0.793,0.830,0.822,0.844,0.825,0.830,0.755,0.813,(5.8677)+(-0.0963)Asn+(0.0064)Gln+(0.0199)Thr+(-0.0164)Arg+(-0.0093)Tyr+(-0.1422)Trp;0.793,0.829,0.780,0.772,0.781,0.766,0.811,0.783,(3.6919)+(-0.0015)Gly+(0.0020)Gln+(0.0031)Thr+(-0.0030)Orn+(0.0479)Ile+(-0.1780)Trp;0.793,0.826,0.769,0.768,0.763,0.766,0.789,0.771,(4.9849)+(-0.0022)Gly+(0.0098)Thr+(-0.0008)Pro+(-0.0292)Tyr+(0.0527)Ile+(-0.1653)Trp;0.793,0.826,0.839,0.853,0.827,0.842,0.823,0.836,(5.4332)+(-0.0801)Asn+(-0.0009)Gly+(0.0060)Gln+(-0.0037)Ala+(0.0218)Orn+(-0.1347)Trp;0.793,0.820,0.811,0.816,0.826,0.827,0.759,0.807,(7.0430)+(0.0028)Gly+(-0.0036)Ala+(-0.0730)Cit+(0.0069)Val+(0.0017)Lys+(-0.1481)Trp;0.793,0.828,0.825,0.837,0.822,0.817,0.804,0.820,(4.6417)+(-0.0007)Gly+(0.0059)Gln+(0.0082)Pro+(0.0125)Tyr+(-0.1817)Met+(-0.1387)Trp;0.793,0.826,0.811,0.823,0.8

00,0.817,0.794,0.809,(6.4693)+(-0.0044)Ala+(0.0133)Pro+(-0.0019)Val+(-0.1339)Met+(0.0096)Lys+(-0.1307)Trp;0.793,0.823,0.811,0.814,0.831,0.825,0.751,0.805,(7.0361)+(0.0031)Gly+(-0.0729)Cit+(0.0086)Arg+(0.0062)Val+(-0.0746)Met+(-0.1433)Trp;0.793,0.820,0.742,0.703,0.751,0.814,0.775,0.761,(6.2982)+(-0.0324)Asn+(-0.1244)His+(0.0195)Thr+(-0.0404)Cit+(-0.0072)Lys+(0.0499)Ile;0.793,0.814,0.757,0.737,0.753,0.810,0.784,0.771,(3.5868)+(0.0000)Gly+(0.0082)Gln+(-0.1657)His+(0.0068)Thr+(0.0008)Pro+(0.0124)Leu;0.793,0.830,0.767,0.774,0.779,0.802,0.701,0.764,(3.3380)+(0.0308)Ser+(-0.0215)Arg+(-0.0108)Tyr+(0.0170)Orn+(0.0097)Leu+(-0.1529)Trp;0.793,0.827,0.793,0.784,0.788,0.845,0.788,0.801,(4.1097)+(0.0003)Gly+(0.0096)Gln+(-0.1388)His+(0.0043)Tyr+(-0.1164)Met+(0.0250)Orn;0.793,0.820,0.761,0.750,0.712,0.841,0.838,0.785,(5.4240)+(-0.1210)Asn+(-0.0180)Arg+(-0.0022)Pro+(-0.0602)Val+(0.0389)Orn+(0.1715)Ile;0.793,0.827,0.778,0.778,0.756,0.800,0.808,0.786,(0.7831)+(-0.0183)Arg+(-0.3046)Met+(0.0039)Lys+(0.1797)Ile+(-0.1012)Leu+(0.1074)Phe;0.793,0.826,0.775,0.753,0.784,0.786,0.809,0.783,(4.1859)+(-0.1252)His+(0.0062)Pro+(-0.2162)Met+(0.0072)Lys+(-0.0013)Leu+(0.1122)Phe;0.793,0.823,0.749,0.719,0.758,0.818,0.759,0.764,(5.4512)+(0.0224)Asn+(0.0068)Gly+(-0.1119)His+(-0.0431)Cit+(-0.1756)Met+(0.0713)Ile;0.793,0.819,0.736,0.709,0.747,0.824,0.722,0.751,(4.2232)+(0.0451)Ser+(-0.0038)Gly+(-0.1275)His+(-0.0153)Cit+(-0.0135)Arg+(0.0074)Pro;0.793,0.817,0.756,0.764,0.674,0.833,0.854,0.781,(3.2838)+(0.0019)Thr+(-0.0091)Ala+(-0.0298)Tyr+(-0.0391)Val+(0.1945)Ile+(-0.0351)Leu;0.793,0.829,0.796,0.807,0.794,0.839,0.738,0.794,(4.0819)+(0.0310)Ser+(-0.0032)Ala+(-0.0167)Arg+(0.0066)Tyr+(0.0011)Lys+(-0.1416)Trp;0.793,0.826,0.786,0.782,0.782,0.792,0.802,0.789,(5.7056)+(-0.0551)Asn+(0.0008)Gly+(-0.0165)Tyr+(0.0109)Orn+(0.0497)Ile+(-0.1491)Trp;0.793,0.822,0.753,0.744,0.671,0.828,0.893,0.784,(2.1250)+(-0.0024)Gln+(0.0003)Thr+(-0.0112)Ala+(-0.0559)Val+(

0.1718)Ile+(0.0418)Phe;0.793,0.820,0.755,0.741,0.705,0.837,0.836,0.78
0,(5.0445)+(-0.1667)Asn+(0.0126)Thr+(-0.0592)Val+(0.0264)Orn+(0.1700)
Ile+(-0.0038)Leu;0.793,0.820,0.747,0.724,0.753,0.839,0.726,0.761,(4.3
041)+(0.0408)Ser+(-0.1290)His+(-0.0037)Ala+(-0.0312)Cit+(-0.0076)Arg+
(0.0089)Val;0.793,0.829,0.790,0.797,0.784,0.832,0.757,0.793,(3.5928)+
(0.0301)Ser+(-0.0042)Ala+(0.0022)Tyr+(0.0042)Val+(-0.0045)Lys+(-0.144
4)Trp;0.793,0.829,0.786,0.783,0.790,0.782,0.787,0.785,(4.0602)+(-0.00
17)Gly+(0.0034)Gln+(0.0106)Thr+(-0.0264)Arg+(0.0491)Ile+(-0.1766)Trp;
0.793,0.828,0.749,0.722,0.722,0.859,0.795,0.775,(-0.7559)+(0.0401)Ser
+(-0.0138)Ala+(-0.1050)Cit+(-0.0285)Lys+(0.0763)Ile+(0.0511)Phe;0.793
,0.826,0.730,0.734,0.764,0.773,0.619,0.722,(-3.3038)+(0.0433)Ser+(0.0
012)Gln+(0.0179)Thr+(-0.0896)Cit+(-0.4389)Met+(0.1245)Phe;0.793,0.825
,0.768,0.751,0.762,0.813,0.789,0.779,(4.9037)+(-0.1280)His+(-0.0039)A
la+(-0.0123)Arg+(-0.0073)Val+(0.0323)Orn+(0.0856)Phe;0.793,0.820,0.77
1,0.755,0.774,0.827,0.769,0.781,(3.6737)+(0.0008)Gly+(0.0102)Gln+(-0.
1590)His+(-0.0203)Arg+(0.0203)Orn+(0.0095)Leu;0.793,0.820,0.796,0.780
,0.792,0.837,0.816,0.806,(4.0797)+(-0.0648)Asn+(0.0122)Gln+(-0.1425)H
is+(-0.0395)Cit+(0.0024)Pro+(0.0129)Leu;0.793,0.820,0.796,0.795,0.788
,0.840,0.787,0.802,(4.3592)+(-0.0521)Asn+(0.0013)Gly+(0.0121)Gln+(-0.
1394)His+(-0.0155)Arg+(0.0050)Pro;0.793,0.817,0.760,0.753,0.699,0.844
,0.843,0.785,(3.6168)+(-0.0093)Ala+(-0.0292)Arg+(-0.0456)Val+(0.0269)
Orn+(0.2019)Ile+(-0.0342)Leu;0.793,0.831,0.789,0.791,0.786,0.806,0.77
6,0.790,(3.9765)+(0.0415)Ser+(-0.0085)Gly+(-0.0095)Tyr+(0.0028)Val+(-
0.0055)Lys+(-0.1450)Trp;0.793,0.828,0.782,0.793,0.782,0.815,0.726,0.7
79,(3.5072)+(0.0277)Ser+(0.0006)Gln+(0.0010)Thr+(-0.0061)Tyr+(-0.0047
)Lys+(-0.1449)Trp;0.793,0.817,0.807,0.807,0.788,0.852,0.814,0.816,(4.
5827)+(-0.0622)Asn+(0.0008)Gly+(0.0109)Gln+(-0.1359)His+(-0.0020)Ala+
(0.0037)Lys;0.793,0.828,0.793,0.801,0.782,0.801,0.790,0.793,(4.8211)+

(0.0018)Gln+(-0.0152)Tyr+(-0.0253)Val+(0.0215)Orn+(0.0460)Leu+(-0.1500)Trp;0.793,0.831,0.777,0.744,0.798,0.821,0.787,0.788,(4.6471)+(-0.1165)His+(-0.0565)Cit+(-0.1653)Met+(0.0399)Orn+(-0.0012)Leu+(0.1017)Phe;0.793,0.832,0.792,0.772,0.794,0.817,0.825,0.802,(4.9845)+(-0.1081)His+(-0.0052)Ala+(-0.0327)Cit+(0.0103)Pro+(-0.1684)Met+(0.1146)Phe;0.793,0.828,0.744,0.770,0.738,0.774,0.667,0.737,(0.0542)+(0.0491)Ser+(-0.1552)Asn+(-0.0729)Cit+(-0.0057)Arg+(-0.0621)Tyr+(0.1037)Phe;0.793,0.826,0.778,0.756,0.785,0.795,0.810,0.786,(4.1889)+(0.0186)Asn+(-0.1315)His+(-0.2141)Met+(0.0065)Lys+(0.0028)Leu+(0.1139)Phe;0.793,0.828,0.809,0.821,0.815,0.817,0.760,0.803,(7.0676)+(-0.0600)Asn+(-0.0101)Arg+(0.0064)Pro+(-0.0063)Val+(0.0292)Orn+(-0.1247)Trp;0.793,0.826,0.737,0.719,0.716,0.826,0.762,0.756,(-1.5052)+(0.0442)Ser+(-0.0007)Gln+(0.0068)Thr+(-0.0075)Ala+(-0.3290)Met+(0.0797)Ile;0.793,0.826,0.819,0.810,0.832,0.822,0.813,0.819,(7.1591)+(-0.0049)Ala+(-0.0723)Cit+(0.0133)Tyr+(-0.0013)Lys+(0.0217)Leu+(-0.1563)Trp;0.793,0.821,0.703,0.714,0.630,0.774,0.773,0.723,(-1.1830)+(0.0192)Ser+(-0.0715)Tyr+(-0.0359)Val+(0.1829)Ile+(-0.0542)Leu+(0.0764)Phe;0.793,0.820,0.722,0.703,0.729,0.822,0.686,0.735,(4.2275)+(0.0360)Ser+(-0.1257)His+(0.0046)Thr+(-0.0333)Cit+(0.0080)Pro+(-0.0180)Tyr;0.793,0.819,0.780,0.763,0.768,0.844,0.803,0.795,(4.0572)+(0.0088)Gln+(-0.1509)His+(0.0107)Thr+(-0.0052)Ala+(-0.0441)Cit+(0.0196)Leu;0.793,0.818,0.720,0.696,0.731,0.817,0.693,0.734,(3.8890)+(0.0389)Ser+(-0.1305)His+(-0.0337)Cit+(0.0073)Pro+(-0.0194)Tyr+(0.0052)Val;0.793,0.835,0.745,0.737,0.724,0.850,0.736,0.762,(-0.0067)+(0.0447)Ser+(-0.0238)Arg+(0.0043)Tyr+(-0.2736)Met+(0.1829)Ile+(-0.0823)Leu;0.793,0.831,0.848,0.862,0.846,0.844,0.821,0.843,(5.1177)+(-0.0542)Asn+(-0.0002)Gly+(0.0076)Gln+(0.0182)Tyr+(-0.1223)Met+(-0.1367)Trp;0.793,0.831,0.831,0.847,0.837,0.830,0.777,0.823,(5.9547)+(-0.0962)Asn+(-0.0022)Gly+(0.0065)Gln+(0.0199)Thr+(-0.0170)Arg+(-0.1472)Trp;

0.793,0.826,0.763,0.756,0.762,0.845,0.728,0.773,(4.6433)+(0.0416)Ser+(-0.0420)Asn+(-0.1112)His+(-0.0002)Ala+(-0.0948)Met+(0.0075)Lys;0.793,0.825,0.800,0.810,0.803,0.810,0.761,0.796,(6.3451)+(-0.0004)Gly+(0.0087)Pro+(-0.0036)Val+(-0.1380)Met+(0.0248)Orn+(-0.1257)Trp;0.793,0.824,0.747,0.738,0.664,0.824,0.890,0.779,(2.2754)+(-0.0027)Gln+(-0.0121)Ala+(0.0046)Pro+(-0.0559)Val+(0.1691)Ile+(0.0397)Phe;0.793,0.818,0.784,0.772,0.767,0.837,0.815,0.798,(3.9591)+(0.0003)Gly+(0.0093)Gln+(-0.1526)His+(-0.0036)Ala+(-0.0101)Tyr+(0.0179)Leu;0.793,0.833,0.787,0.782,0.768,0.865,0.781,0.799,(1.8293)+(0.0054)Gln+(0.0139)Thr+(-0.0839)Cit+(-0.2947)Met+(0.1711)Ile+(-0.0785)Leu;0.793,0.827,0.807,0.813,0.816,0.809,0.771,0.802,(6.6394)+(-0.0318)Asn+(0.0073)Pro+(0.0068)Tyr+(-0.1237)Met+(0.0227)Orn+(-0.1296)Trp;0.793,0.826,0.783,0.775,0.795,0.876,0.710,0.789,(3.6992)+(0.0371)Ser+(-0.1112)Asn+(-0.0073)Ala+(-0.1183)Cit+(0.0624)Orn+(-0.0123)Lys;0.793,0.823,0.816,0.828,0.802,0.823,0.808,0.815,(7.0863)+(-0.0627)Asn+(-0.0053)Ala+(0.0114)Pro+(-0.0033)Val+(0.0082)Lys+(-0.1302)Trp;0.793,0.822,0.808,0.806,0.789,0.851,0.821,0.817,(4.5609)+(-0.0511)Asn+(0.0113)Gln+(-0.1388)His+(-0.0023)Ala+(-0.0049)Tyr+(0.0038)Val;0.793,0.823,0.799,0.790,0.792,0.839,0.809,0.807,(4.0362)+(-0.0530)Asn+(0.0127)Gln+(-0.1505)His+(-0.0159)Arg+(0.0025)Lys+(0.0117)Leu;0.793,0.835,0.742,0.732,0.715,0.839,0.752,0.760,(-0.4029)+(0.0409)Ser+(0.0015)Pro+(-0.3021)Met+(-0.0036)Lys+(0.1674)Ile+(-0.0727)Leu;0.793,0.815,0.753,0.740,0.739,0.811,0.778,0.767,(4.2685)+(0.0071)Gln+(-0.1533)His+(0.0124)Thr+(-0.0205)Tyr+(-0.0157)Val+(0.0394)Leu;0.793,0.826,0.740,0.725,0.717,0.825,0.767,0.759,(-1.6625)+(0.0436)Ser+(0.0076)Thr+(-0.0074)Ala+(-0.3342)Met+(-0.0050)Orn+(0.0812)Ile;0.793,0.826,0.791,0.784,0.785,0.843,0.786,0.799,(4.0577)+(0.0003)Gly+(0.0094)Gln+(-0.1393)His+(-0.1184)Met+(0.0244)Orn+(0.0030)Lys;0.793,0.825,0.740,0.715,0.751,0.799,0.739,0.751,(4.6143)+(-0.1451)His+(0.0184)

Thr+(-0.0222)Arg+(-0.0103)Val+(0.0248)Orn+(0.0877)Phe;0.793,0.821,0.740,0.732,0.737,0.791,0.729,0.747,(4.2928)+(0.0057)Gly+(-0.1344)His+(-0.0408)Cit+(-0.0374)Tyr+(0.0026)Leu+(0.1056)Phe;0.793,0.833,0.747,0.729,0.718,0.838,0.792,0.769,(-1.1123)+(0.0459)Ser+(0.0004)Gln+(-0.0074)Ala+(-0.2729)Met+(-0.0119)Lys+(0.0863)Ile;0.793,0.825,0.769,0.756,0.766,0.846,0.754,0.780,(4.7199)+(0.0468)Ser+(-0.0394)Asn+(-0.0038)Gly+(-0.1096)His+(-0.0930)Met+(0.0063)Lys;0.793,0.825,0.812,0.810,0.797,0.853,0.816,0.819,(4.2882)+(-0.0282)Asn+(0.0117)Gln+(-0.1378)His+(-0.0014)Ala+(0.0051)Val+(-0.0795)Met;0.793,0.822,0.741,0.751,0.661,0.836,0.812,0.765,(0.6972)+(0.0214)Ser+(-0.0117)Ala+(0.0060)Pro+(-0.0412)Tyr+(0.1651)Ile+(-0.0806)Leu;0.793,0.822,0.780,0.784,0.720,0.850,0.846,0.800,(4.0397)+(-0.1406)Asn+(0.0021)Gly+(0.0053)Gln+(-0.0171)Arg+(-0.0561)Val+(0.1660)Ile;0.793,0.833,0.772,0.776,0.786,0.804,0.708,0.769,(3.0491)+(0.0302)Ser+(0.0006)Gln+(-0.0233)Arg+(0.0149)Orn+(0.0086)Leu+(-0.1577)Trp;0.793,0.832,0.764,0.764,0.767,0.800,0.731,0.765,(2.9534)+(0.0317)Ser+(0.0003)Gln+(-0.0094)Tyr+(-0.0089)Lys+(0.0166)Leu+(-0.1531)Trp;0.793,0.830,0.825,0.836,0.827,0.811,0.803,0.819,(5.4817)+(-0.1088)Asn+(-0.0018)Gly+(0.0056)Gln+(0.0158)Thr+(0.0061)Leu+(-0.1524)Trp;0.793,0.828,0.822,0.838,0.8
16,0.815,0.799,0.817,(4.8620)+(-0.0011)Gly+(0.0060)Gln+(0.0092)Pro+(-0.0011)Val+(-0.1619)Met+(-0.1343)Trp;0.793,0.827,0.796,0.789,0.810,0.810,0.776,0.796,(6.4477)+(0.0028)Gly+(-0.0710)Cit+(0.0041)Tyr+(-0.0165)Val+(0.0430)Leu+(-0.1588)Trp;0.793,0.825,0.765,0.771,0.772,0.790,0.717,0.762,(-2.1973)+(0.0514)Ser+(-0.0036)Gly+(-0.0674)Cit+(-0.0094)Val+(-0.3426)Met+(0.1315)Phe;0.793,0.824,0.783,0.777,0.772,0.831,0.789,0.792,(4.5103)+(-0.0600)Asn+(0.0099)Gln+(-0.1354)His+(0.0049)Pro+(-0.0197)Tyr+(0.0238)Orn;0.793,0.824,0.799,0.795,0.781,0.846,0.812,0.808,(4.0711)+(0.0108)Gln+(-0.1352)His+(-0.0036)Ala+(0.0097)Pro+(0.0041)Va

l+(-0.1232)Met;0.793,0.824,0.794,0.792,0.818,0.807,0.741,0.790,(6.655
9)+(0.0026)Gly+(-0.0785)Cit+(0.0002)Arg+(0.0079)Pro+(0.0024)Val+(-0.1
554)Trp;0.793,0.827,0.775,0.785,0.778,0.808,0.719,0.772,(3.5163)+(0.0
291)Ser+(0.0010)Thr+(-0.0068)Tyr+(0.0021)Val+(-0.0053)Lys+(-0.1465)Tr
p;0.793,0.832,0.774,0.739,0.797,0.820,0.787,0.786,(4.5142)+(-0.1160)H
is+(-0.0540)Cit+(0.0039)Pro+(-0.1793)Met+(0.0368)Orn+(0.0994)Phe;0.79
3,0.827,0.803,0.799,0.799,0.853,0.784,0.809,(4.4427)+(-0.0297)Asn+(0.
0116)Gln+(-0.1348)His+(-0.0153)Arg+(-0.0725)Met+(0.0278)Orn;0.793,0.8
35,0.743,0.736,0.724,0.848,0.728,0.759,(0.0960)+(0.0433)Ser+(-0.0255)
Arg+(-0.2657)Met+(0.0082)Orn+(0.1816)Ile+(-0.0831)Leu;0.793,0.830,0.7
12,0.692,0.712,0.771,0.726,0.725,(-5.0888)+(0.0550)Ser+(-0.0006)Gln+(
-0.4464)Met+(-0.0132)Orn+(0.0601)Ile+(0.0920)Phe;0.793,0.828,0.825,0.
815,0.849,0.822,0.805,0.823,(7.5670)+(-0.0193)Asn+(-0.0635)Cit+(0.022
7)Tyr+(-0.0918)Met+(0.0180)Leu+(-0.1501)Trp;0.793,0.827,0.826,0.836,0
.838,0.830,0.772,0.819,(5.3995)+(0.0004)Gly+(0.0058)Gln+(-0.0720)Cit+
(-0.0043)Arg+(0.0000)Lys+(-0.1532)Trp;0.793,0.825,0.792,0.776,0.801,0
.853,0.773,0.801,(4.2241)+(0.0101)Gln+(-0.1314)His+(-0.0646)Cit+(0.00
24)Val+(-0.1143)Met+(0.0407)Orn;0.793,0.823,0.752,0.738,0.730,0.814,0
.788,0.768,(4.0978)+(0.0045)Gly+(-0.1357)His+(-0.0057)Ala+(0.0069)Pro
+(-0.0042)Val+(0.0886)Phe;0.793,0.832,0.788,0.798,0.812,0.797,0.707,0
.779,(6.3592)+(0.0290)Thr+(-0.0147)Arg+(-0.1978)Met+(0.0034)Lys+(0.01
56)Leu+(-0.1510)Trp;0.793,0.829,0.742,0.733,0.770,0.787,0.677,0.742,(
-2.8218)+(0.0517)Ser+(-0.0035)Gly+(-0.0960)Cit+(-0.3693)Met+(0.0272)O
rn+(0.1082)Phe;0.793,0.829,0.824,0.837,0.821,0.821,0.798,0.819,(4.644
7)+(0.0058)Gln+(0.0086)Pro+(0.0138)Tyr+(-0.0014)Val+(-0.1827)Met+(-0.
1370)Trp;0.793,0.827,0.845,0.863,0.836,0.846,0.816,0.840,(5.2714)+(-0
.0544)Asn+(0.0075)Gln+(-0.0013)Ala+(0.0014)Val+(-0.0852)Met+(-0.1323)
Trp;0.793,0.825,0.746,0.733,0.746,0.836,0.713,0.757,(4.9877)+(0.0378)

Ser+(-0.0710)Asn+(-0.1199)His+(0.0098)Thr+(-0.0079)Tyr+(0.0023)Lys;0.793,0.823,0.774,0.744,0.761,0.831,0.837,0.793,(5.9086)+(0.0324)Asn+(-0.1144)His+(-0.0050)Ala+(-0.1628)Met+(0.0037)Lys+(0.0714)Ile;0.793,0.821,0.818,0.829,0.828,0.831,0.755,0.811,(7.2164)+(0.0024)Gly+(-0.0013)Ala+(-0.0584)Cit+(-0.0734)Met+(0.0082)Lys+(-0.1352)Trp;0.793,0.820,0.787,0.785,0.772,0.846,0.778,0.795,(4.5364)+(0.0098)Gln+(-0.1457)His+(0.0125)Thr+(-0.0043)Ala+(-0.0225)Arg+(0.0070)Pro;0.793,0.830,0.767,0.751,0.769,0.792,0.790,0.775,(4.3655)+(-0.1216)His+(0.0057)Pro+(-0.0263)Tyr+(-0.1628)Met+(0.0240)Orn+(0.1094)Phe;0.793,0.828,0.784,0.800,0.792,0.815,0.701,0.777,(3.7246)+(0.0271)Ser+(0.0015)Gln+(0.0050)Thr+(-0.0214)Arg+(-0.0049)Tyr+(-0.1486)Trp;0.793,0.826,0.836,0.852,0.824,0.841,0.817,0.833,(5.3795)+(-0.0807)Asn+(0.0059)Gln+(-0.0036)Ala+(-0.0028)Tyr+(0.0220)Orn+(-0.1335)Trp;0.793,0.824,0.790,0.784,0.780,0.836,0.792,0.798,(4.5742)+(-0.0606)Asn+(0.0099)Gln+(-0.1367)His+(-0.0145)Tyr+(0.0254)Orn+(0.0014)Lys;0.793,0.821,0.804,0.804,0.794,0.847,0.792,0.809,(4.3690)+(-0.0478)Asn+(0.0011)Gly+(0.0125)Gln+(-0.1423)His+(-0.0152)Arg+(0.0024)Val;0.793,0.829,0.760,0.774,0.757,0.789,0.708,0.757,(-2.4585)+(0.0524)Ser+(-0.1011)Asn+(-0.2906)Met+(0.0092)Orn+(-0.0083)Leu+(0.1126)Phe;0.793,0.829,0.748,0.737,0.738,0.787,0.772,0.759,(4.5908)+(-0.1359)His+(-0.0464)Tyr+(0.0298)Orn+(-0.0006)Lys+(-0.0022)Leu+(0.0929)Phe;0.793,0.817,0.764,0.770,0.682,0.832,0.868,0.788,(3.8017)+(-0.0021)Gly+(-0.0088)Ala+(-0.0295)Tyr+(-0.0390)Val+(0.1954)Ile+(-0.0356)Leu;0.793,0.824,0.777,0.754,0.784,0.792,0.811,0.785,(4.4167)+(-0.1209)His+(0.0024)Arg+(0.0061)Pro+(-0.2033)Met+(0.0017)Leu+(0.1111)Phe;0.793,0.829,0.798,0.790,0.800,0.796,0.815,0.800,(5.8471)+(-0.0098)Asn+(-0.0026)Arg+(-0.1579)Met+(0.0029)Lys+(0.0633)Ile+(-0.1445)Trp;0.793,0.827,0.817,0.807,0.829,0.820,0.815,0.818,(6.9059)+(-0.0051)Ala+(-0.0759)Cit+(0.0056)Arg+(0.0103)Tyr+(0.0214)Leu+(-0.1581)Trp;0.793,0.824

,0.740,0.723,0.714,0.828,0.776,0.760,(-1.6241)+(0.0459)Ser+(-0.0004)G
ln+(-0.0075)Ala+(-0.3079)Met+(-0.0007)Orn+(0.0803)Ile;0.793,0.824,0.7
37,0.714,0.735,0.799,0.756,0.751,(3.8409)+(0.0037)Gly+(-0.1425)His+(-
0.0071)Val+(0.0260)Orn+(-0.0031)Lys+(0.0838)Phe;0.793,0.823,0.746,0.7
26,0.750,0.838,0.726,0.760,(4.2987)+(0.0405)Ser+(-0.1332)His+(-0.0028
)Ala+(-0.0129)Arg+(-0.0032)Tyr+(0.0078)Val;0.793,0.825,0.823,0.819,0.
836,0.828,0.803,0.822,(7.8520)+(-0.0188)Asn+(-0.0029)Ala+(-0.0628)Cit
+(-0.0370)Met+(0.0214)Leu+(-0.1432)Trp;0.793,0.823,0.759,0.747,0.737,
0.813,0.800,0.774,(6.2959)+(-0.0965)His+(-0.0097)Arg+(-0.0008)Pro+(-0
.0253)Tyr+(0.1230)Ile+(-0.0500)Leu;0.793,0.821,0.739,0.712,0.730,0.82
4,0.767,0.758,(5.0442)+(0.0050)Gly+(-0.1031)His+(-0.0504)Cit+(-0.0020
)Lys+(0.1165)Ile+(-0.0457)Leu;0.793,0.818,0.727,0.693,0.734,0.810,0.7
40,0.744,(3.7536)+(0.0448)Ser+(-0.0035)Gly+(-0.1382)His+(-0.0261)Cit+
(-0.0171)Tyr+(0.0217)Leu;0.793,0.825,0.824,0.826,0.836,0.829,0.789,0.
820,(7.5138)+(-0.0027)Ala+(-0.0702)Cit+(0.0097)Arg+(0.0072)Val+(-0.05
27)Met+(-0.1413)Trp;0.793,0.830,0.803,0.811,0.812,0.802,0.765,0.798,(
6.7361)+(-0.0857)Asn+(-0.0010)Gly+(0.0146)Thr+(0.0032)Pro+(0.0150)Orn
+(-0.1444)Trp;0.793,0.832,0.803,0.798,0.802,0.804,0.815,0.805,(6.6753
)+(-0.0002)Arg+(0.0097)Pro+(-0.0276)Val+(-0.1560)Met+(0.0569)Leu+(-0.
1284)Trp;0.793,0.832,0.785,0.781,0.740,0.858,0.837,0.804,(3.3396)+(0.
0115)Thr+(-0.0094)Ala+(0.0068)Pro+(-0.2436)Met+(0.1678)Ile+(-0.0757)L
eu;0.793,0.828,0.784,0.777,0.779,0.794,0.806,0.789,(4.4495)+(-0.1227)
His+(-0.0171)Tyr+(-0.0064)Val+(-0.1794)Met+(0.0109)Lys+(0.1300)Phe;0.
793,0.821,0.724,0.688,0.737,0.823,0.720,0.742,(3.7818)+(0.0428)Ser+(-
0.1364)His+(-0.0321)Cit+(-0.0087)Tyr+(-0.0081)Lys+(0.0260)Leu;0.793,0
.818,0.759,0.729,0.763,0.828,0.777,0.774,(3.9969)+(0.0076)Gln+(-0.143
6)His+(-0.0593)Cit+(-0.0180)Val+(0.0396)Orn+(0.0355)Leu;0.793,0.829,0
.757,0.754,0.774,0.796,0.700,0.756,(-2.2118)+(0.0555)Ser+(-0.0036)Gly

+(-0.0772)Cit+(-0.3295)Met+(-0.0101)Lys+(0.1225)Phe;0.793,0.824,0.725,0.686,0.730,0.802,0.759,0.745,(5.2039)+(-0.0508)Asn+(0.0038)Gly+(-0.1401)His+(0.0128)Thr+(0.0162)Orn+(0.0424)Ile;0.793,0.820,0.773,0.757,0.770,0.825,0.782,0.784,(4.0554)+(-0.0003)Gly+(0.0085)Gln+(-0.1522)His+(0.0009)Val+(0.0225)Orn+(-0.0038)Lys;0.793,0.817,0.757,0.760,0.673,0.835,0.871,0.785,(3.6399)+(-0.0032)Gly+(0.0058)Thr+(-0.0092)Ala+(-0.0332)Tyr+(-0.0512)Val+(0.1717)Ile;0.793,0.826,0.796,0.779,0.795,0.843,0.806,0.806,(3.5834)+(0.0121)Gln+(-0.1388)His+(-0.0373)Cit+(0.0059)Pro+(-0.1589)Met+(0.0194)Leu;0.793,0.825,0.805,0.807,0.786,0.827,0.822,0.811,(4.8143)+(0.0023)Gln+(-0.0056)Ala+(-0.0257)Val+(0.0224)Orn+(0.0511)Leu+(-0.1490)Trp;0.793,0.822,0.789,0.776,0.771,0.842,0.820,0.802,(4.0481)+(0.0097)Gln+(-0.1514)His+(-0.0035)Ala+(-0.0085)Tyr+(-0.0031)Lys+(0.0190)Leu;0.793,0.822,0.832,0.838,0.839,0.841,0.794,0.828,(8.3108)+(-0.0336)Asn+(-0.0013)Ala+(-0.0621)Cit+(0.0106)Arg+(-0.0240)Met+(-0.1284)Trp;0.793,0.821,0.802,0.791,0.798,0.842,0.812,0.811,(4.1244)+(-0.0567)Asn+(0.0131)Gln+(-0.1437)His+(-0.0330)Cit+(-0.0091)Arg+(0.0142)Leu;0.793,0.819,0.733,0.720,0.677,0.822,0.819,0.759,(1.0632)+(0.0379)Ser+(-0.0082)Gly+(-0.0368)Arg+(-0.0010)Pro+(-0.0574)Val+(0.1668)Ile;0.793,0.829,0.764,0.761,0.771,0.793,0.737,0.765,(2.5515)+(0.0307)Ser+(-0.0007)Gln+(-0.0059)Thr+(0.0106)Orn+(0.0091)Leu+(-0.1583)Trp;0.793,0.826,0.766,0.785,0.766,0.787,0.704,0.760,(-3.1822)+(0.0526)Ser+(-0.0955)Asn+(0.0030)Gln+(-0.0147)Arg+(-0.3006)Met+(0.1102)Phe;0.793,0.828,0.759,0.772,0.764,0.792,0.690,0.754,(-2.3337)+(0.0551)Ser+(-0.0828)Asn+(-0.0108)Arg+(-0.2866)Met+(-0.0045)Lys+(0.1137)Phe;0.793,0.821,0.759,0.748,0.706,0.842,0.838,0.783,(4.8638)+(-0.1482)Asn+(0.0022)Gly+(-0.0029)Pro+(-0.0587)Val+(0.0319)Orn+(0.1688)Ile;0.793,0.823,0.731,0.706,0.728,0.794,0.757,0.746,(3.6593)+(0.0037)Gly+(-0.1444)His+(0.0016)Pro+(-0.0081)Val+(0.0242)Orn+(0.0814)Phe;0.793,0.823,0.770,0.768,0

.770,0.826,0.733,0.774,(4.6718)+(0.0090)Gln+(-0.1478)His+(0.0136)Thr+(-0.0249)Arg+(-0.0219)Tyr+(0.0260)Orn;0.793,0.820,0.822,0.828,0.836,0.817,0.778,0.815,(7.8711)+(-0.0322)Asn+(-0.0573)Cit+(0.0028)Val+(-0.0572)Met+(0.0084)Lys+(-0.1400)Trp;0.793,0.829,0.819,0.831,0.818,0.809,0.795,0.813,(4.3704)+(0.0054)Gln+(0.0083)Pro+(0.0130)Tyr+(-0.1984)Met+(0.0057)Lys+(-0.1437)Trp;0.793,0.828,0.791,0.789,0.747,0.861,0.836,0.808,(3.5701)+(-0.0166)Asn+(0.0133)Thr+(-0.0078)Ala+(-0.2222)Met+(0.1732)Ile+(-0.0769)Leu;0.793,0.828,0.823,0.823,0.844,0.842,0.766,0.819,(7.0334)+(0.0035)Gly+(-0.0678)Cit+(0.0066)Arg+(0.0291)Tyr+(-0.1073)Met+(-0.1401)Trp;0.793,0.826,0.801,0.795,0.753,0.877,0.862,0.822,(4.8485)+(-0.0479)Asn+(-0.0109)Ala+(-0.0811)Cit+(0.0008)Arg+(0.1745)Ile+(-0.0801)Leu;0.793,0.825,0.801,0.795,0.754,0.876,0.861,0.821,(4.9210)+(-0.0444)Asn+(-0.0108)Ala+(-0.0802)Cit+(-0.0015)Lys+(0.1743)Ile+(-0.0794)Leu;0.793,0.824,0.770,0.749,0.793,0.847,0.721,0.777,(7.1302)+(-0.1071)His+(0.0222)Thr+(-0.0031)Ala+(-0.0709)Cit+(-0.1277)Met+(0.0502)Orn;0.793,0.821,0.827,0.832,0.839,0.831,0.788,0.822,(8.1908)+(-0.0219)Asn+(-0.0022)Ala+(-0.0623)Cit+(0.0062)Val+(-0.0214)Met+(-0.1373)Trp;0.793,0.821,0.753,0.743,0.747,0.795,0.761,0.761,(4.4736)+(-0.0613)Asn+(0.0059)Gly+(-0.1298)His+(-0.0081)Val+(0.0041)Lys+(0.0992)Phe;0.793,0.819,0.750,0.752,0.667,0.833,0.861,0.778,(3.6286)+(-0.0015)Gln+(0.0046)Thr+(-0.0092)Ala+(-0.0286)Tyr+(-0.0512)Val+(0.1730)Ile;0.793,0.816,0.697,0.677,0.655,0.812,0.753,0.724,(1.5340)+(0.0300)Ser+(-0.0040)Gln+(-0.0375)Arg+(-0.0589)Val+(0.0228)Orn+(0.1676)Ile;0.793,0.829,0.790,0.780,0.790,0.796,0.809,0.794,(5.5347)+(-0.0563)Asn+(0.0011)Gly+(0.0094)Orn+(-0.0033)Lys+(0.0497)Ile+(-0.1527)Trp;0.793,0.828,0.803,0.817,0.814,0.815,0.735,0.795,(7.5522)+(-0.0763)Asn+(0.0205)Thr+(-0.0133)Arg+(0.0062)Pro+(-0.0045)Val+(-0.1361)Trp;0.793,0.822,0.705,0.660,0.720,0.782,0.739,0.725,(3.1667)+(0.

0059)Gly+(-0.1520)His+(0.0102)Thr+(-0.0503)Cit+(0.0353)Ile+(0.0606)Ph
e;0.793,0.828,0.753,0.759,0.757,0.794,0.702,0.753,(-2.4412)+(0.0535)S
er+(-0.0899)Asn+(-0.2885)Met+(0.0105)Orn+(-0.0078)Lys+(0.1087)Phe;0.7
93,0.829,0.742,0.720,0.748,0.791,0.750,0.752,(4.7616)+(-0.1267)His+(-
0.0638)Cit+(0.0032)Pro+(-0.0525)Tyr+(0.0454)Orn+(0.0911)Phe;0.793,0.8
25,0.795,0.791,0.792,0.849,0.774,0.801,(4.2692)+(0.0004)Gly+(0.0109)G
ln+(-0.1380)His+(-0.0161)Arg+(-0.0924)Met+(0.0282)Orn;0.793,0.823,0.7
78,0.754,0.785,0.799,0.811,0.787,(4.3460)+(0.0217)Asn+(-0.1284)His+(0
.0024)Arg+(-0.2048)Met+(0.0055)Leu+(0.1128)Phe;0.793,0.826,0.786,0.78
4,0.741,0.858,0.829,0.803,(3.1781)+(0.0007)Gly+(0.0117)Thr+(-0.0079)A
la+(-0.2374)Met+(0.1759)Ile+(-0.0774)Leu;0.793,0.823,0.744,0.721,0.76
4,0.812,0.715,0.753,(6.1342)+(0.0032)Asn+(0.0027)Gly+(-0.1370)His+(0.
0318)Thr+(-0.2122)Met+(0.0268)Leu;0.793,0.820,0.725,0.704,0.735,0.819
,0.692,0.737,(4.0612)+(0.0409)Ser+(-0.1316)His+(-0.0160)Arg+(0.0081)P
ro+(-0.0167)Tyr+(0.0041)Val;0.793,0.820,0.764,0.756,0.717,0.845,0.823
,0.785,(5.2987)+(-0.1228)Asn+(0.0052)Gly+(-0.0547)Cit+(-0.0015)Arg+(-
0.0531)Val+(0.1671)Ile;0.793,0.829,0.795,0.800,0.805,0.816,0.749,0.79
2,(5.9316)+(0.0239)Thr+(-0.0033)Ala+(-0.1822)Met+(0.0128)Orn+(0.0170)
Leu+(-0.1478)Trp;0.793,0.828,0.828,0.840,0.828,0.825,0.801,0.824,(4.7
947)+(-0.0548)Asn+(0.0066)Gln+(-0.1226)Met+(0.0173)Orn+(0.0102)Leu+(-
0.1385)Trp;0.793,0.826,0.799,0.810,0.801,0.804,0.761,0.794,(6.0466)+(
0.0093)Pro+(-0.0052)Val+(-0.1588)Met+(0.0215)Orn+(0.0075)Lys+(-0.1307
)Trp;0.793,0.819,0.778,0.787,0.709,0.841,0.851,0.797,(4.3936)+(-0.133
2)Asn+(0.0046)Gln+(-0.0266)Tyr+(-0.0468)Val+(0.1752)Ile+(-0.0195)Leu;
0.793,0.824,0.811,0.817,0.800,0.821,0.812,0.812,(6.6599)+(-0.0485)Asn
+(0.0012)Gly+(-0.0062)Ala+(0.0099)Pro+(0.0110)Leu+(-0.1364)Trp;0.793,
0.820,0.800,0.799,0.787,0.841,0.803,0.807,(4.4484)+(-0.0557)Asn+(0.00
07)Gly+(0.0112)Gln+(-0.1399)His+(-0.0080)Tyr+(0.0027)Val;0.793,0.818,

0.755,0.744,0.701,0.838,0.835,0.779,(5.1627)+(-0.1569)Asn+(0.0020)Gly+(0.0166)Thr+(-0.0579)Val+(-0.0039)Lys+(0.1710)Ile;0.793,0.827,0.789,0.780,0.790,0.794,0.808,0.793,(5.4555)+(-0.0613)Asn+(0.0012)Gly+(-0.0009)Pro+(0.0083)Orn+(0.0488)Ile+(-0.1548)Trp;0.792,0.818,0.758,0.747,0.710,0.837,0.832,0.781,(5.3462)+(-0.1152)Asn+(-0.0193)Arg+(-0.0552)Val+(0.0367)Orn+(0.1787)Ile+(-0.0149)Leu;0.792,0.822,0.738,0.730,0.701,0.824,0.776,0.757,(3.8959)+(-0.0757)Cit+(-0.0189)Arg+(-0.0448)Tyr+(-0.0516)Val+(0.0481)Orn+(0.1548)Ile;0.792,0.818,0.756,0.744,0.704,0.839,0.834,0.780,(4.7913)+(-0.1458)Asn+(0.0022)Gly+(-0.0554)Val+(0.0294)Orn+(0.1716)Ile+(-0.0101)Leu;0.792,0.834,0.745,0.738,0.722,0.849,0.735,0.761,(0.0259)+(0.0440)Ser+(-0.0248)Arg+(-0.2703)Met+(0.0022)Lys+(0.1835)Ile+(-0.0834)Leu;0.792,0.826,0.763,0.763,0.757,0.768,0.775,0.766,(4.5683)+(0.0073)Thr+(-0.0011)Pro+(-0.0271)Tyr+(0.0026)Orn+(0.0529)Ile+(-0.1650)Trp;0.792,0.825,0.799,0.803,0.826,0.817,0.722,0.792,(7.0562)+(0.0162)Thr+(-0.0713)Cit+(-0.0057)Arg+(-0.0054)Tyr+(0.0034)Val+(-0.1603)Trp;0.792,0.824,0.794,0.785,0.788,0.836,0.802,0.802,(3.6138)+(0.0125)Gln+(-0.1446)His+(-0.0116)Arg+(0.0060)Pro+(-0.1467)Met+(0.0175)Leu;0.792,0.824,0.751,0.735,0.732,0.813,0.789,0.767,(4.1032)+(0.0047)Gly+(-0.1381)His+(-0.0061)Ala+(0.0064)Pro+(-0.0016)Lys+(0.0838)Phe;0.792,0.824,0.802,0.800,0.790,0.842,0.803,0.809,(4.2369)+(-0.0292)Asn+(0.0116)Gln+(-0.1317)His+(0.0077)Pro+(0.0011)Tyr+(-0.1121)Met;0.792,0.823,0.793,0.789,0.782,0.842,0.788,0.800,(3.9626)+(0.0010)Gly+(0.0107)Gln+(-0.1353)His+(0.0081)Pro+(0.0043)Tyr+(-0.1400)Met;0.792,0.817,0.768,0.755,0.762,0.819,0.776,0.778,(4.0780)+(0.0086)Gln+(-0.1556)His+(0.0077)Thr+(0.0026)Pro+(0.0022)Val+(-0.0045)Lys;0.792,0.829,0.750,0.728,0.761,0.839,0.723,0.763,(3.6683)+(0.0440)Ser+(-0.1278)His+(0.0137)Tyr+(0.0076)Val+(-0.1582)Met+(0.0028)Lys;0.792,0.828,0.801,0.806,0.800,0.815,0.781,0.800,(4.9050)+(0.0032)Gln+(-0.0207)Arg+(-0.0266)Val+(

0.0260)Orn+(0.0468)Leu+(-0.1509)Trp;0.792,0.827,0.727,0.730,0.763,0.771,0.614,0.719,(-2.9694)+(0.0444)Ser+(0.0183)Thr+(-0.0875)Cit+(-0.4337)Met+(-0.0008)Leu+(0.1254)Phe;0.792,0.824,0.771,0.764,0.770,0.833,0.748,0.779,(7.0972)+(-0.0084)Asn+(-0.1088)His+(0.0266)Thr+(-0.0037)Ala+(0.0106)Pro+(-0.1532)Met;0.792,0.823,0.824,0.826,0.840,0.825,0.787,0.819,(7.9221)+(-0.0292)Asn+(-0.0676)Cit+(0.0107)Arg+(0.0051)Val+(-0.0459)Met+(-0.1396)Trp;0.792,0.821,0.780,0.772,0.768,0.835,0.791,0.791,(4.2759)+(0.0082)Gln+(-0.1460)His+(-0.0031)Ala+(-0.0135)Tyr+(0.0030)Val+(0.0248)Orn;0.792,0.831,0.758,0.761,0.765,0.787,0.716,0.758,(2.9949)+(0.0279)Ser+(-0.0007)Gln+(-0.0172)Tyr+(0.0110)Orn+(0.0103)Leu+(-0.1559)Trp;0.792,0.822,0.808,0.805,0.789,0.851,0.824,0.817,(4.4881)+(-0.0564)Asn+(0.0112)Gln+(-0.1401)His+(-0.0025)Ala+(0.0028)Val+(0.0024)Lys;0.792,0.827,0.757,0.747,0.752,0.787,0.772,0.764,(5.1744)+(-0.0219)Asn+(-0.1286)His+(-0.0075)Arg+(-0.0455)Tyr+(0.0317)Orn+(0.0923)Phe;0.792,0.826,0.816,0.811,0.822,0.823,0.813,0.817,(7.9365)+(-0.0257)Asn+(-0.0519)Cit+(-0.0203)Val+(-0.0649)Met+(0.0520)Leu+(-0.1364)Trp;0.792,0.829,0.795,0.802,0.798,0.805,0.761,0.791,(5.1001)+(0.0029)Gln+(0.0157)Thr+(-0.0240)Arg+(-0.0255)Val+(0.0484)Leu+(-0.1610)Trp;0.792,0.825,0.738,0.703,0.761,0.836,0.709,0.752,(4.2679)+(0.0391)Ser+(-0.0028)Gly+(-0.1282)His+(-0.0503)Cit+(-0.0111)Arg+(0.0416)Orn;0.792,0.824,0.746,0.705,0.745,0.802,0.814,0.767,(4.6052)+(-0.0293)Asn+(-0.1413)His+(-0.0031)Pro+(0.0188)Orn+(0.0312)Ile+(0.0506)Phe;0.792,0.824,0.749,0.723,0.733,0.812,0.803,0.768,(4.4212)+(-0.1462)His+(0.0145)Thr+(-0.0064)Ala+(0.0044)Pro+(0.0024)Leu+(0.0741)Phe;0.792,0.824,0.748,0.730,0.758,0.832,0.714,0.759,(4.6924)+(0.0438)Ser+(-0.0493)Asn+(-0.1204)His+(-0.0275)Cit+(-0.0058)Arg+(0.0055)Val;0.792,0.821,0.729,0.712,0.736,0.793,0.714,0.739,(4.2430)+(0.0040)Gly+(-0.1503)His+(0.0196)Thr+(-0.0219)Arg+(-0.0075)Val+(0.0971)Phe;0.792,0.826,0.797,0.789,0.790,0.843,0.797

,0.805,(3.6160)+(0.0016)Gly+(0.0122)Gln+(-0.1476)His+(-0.0115)Arg+(-0.1280)Met+(0.0210)Leu;0.792,0.824,0.794,0.794,0.816,0.807,0.740,0.789,(6.7262)+(0.0026)Gly+(-0.0777)Cit+(0.0082)Pro+(-0.0031)Tyr+(0.0025)Val+(-0.1540)Trp;0.792,0.823,0.798,0.796,0.788,0.835,0.801,0.805,(4.0063)+(-0.0324)Asn+(0.0113)Gln+(-0.1346)His+(0.0078)Pro+(-0.1275)Met+(0.0062)Lys;0.792,0.814,0.754,0.747,0.699,0.835,0.831,0.778,(4.9966)+(-0.1598)Asn+(0.0021)Gly+(0.0146)Thr+(-0.0564)Val+(0.1740)Ile+(-0.0063)Leu;0.792,0.830,0.832,0.851,0.821,0.835,0.799,0.827,(5.5035)+(-0.0900)Asn+(0.0058)Gln+(-0.0066)Tyr+(-0.0043)Val+(0.0235)Orn+(-0.1297)Trp;0.792,0.824,0.814,0.831,0.800,0.828,0.786,0.811,(5.0042)+(0.0039)Gln+(-0.0070)Ala+(-0.0192)Arg+(0.0092)Pro+(0.0209)Orn+(-0.1429)Trp;0.792,0.823,0.754,0.744,0.677,0.838,0.879,0.785,(3.3252)+(0.0048)Thr+(-0.0109)Ala+(0.0046)Pro+(-0.0512)Val+(-0.0131)Lys+(0.1729)Ile;0.792,0.823,0.793,0.799,0.782,0.810,0.788,0.795,(5.2360)+(0.0071)Thr+(-0.0080)Ala+(0.0080)Pro+(0.0122)Orn+(0.0091)Leu+(-0.1529)Trp;0.792,0.821,0.791,0.781,0.774,0.846,0.813,0.803,(3.9550)+(0.0109)Gln+(-0.1508)His+(-0.0050)Ala+(-0.0168)Arg+(0.0063)Pro+(0.0139)Leu;0.792,0.820,0.717,0.715,0.667,0.816,0.756,0.738,(1.5054)+(0.0238)Ser+(-0.0378)Arg+(-0.0360)Tyr+(-0.0542)Val+(0.0243)Orn+(0.1614)Ile;0.792,0.820,0.764,0.765,0.691,0.837,0.862,0.789,(4.3066)+(-0.0084)Ala+(-0.0185)Arg+(-0.0178)Tyr+(-0.0522)Val+(-0.0027)Lys+(0.1799)Ile;0.792,0.831,0.821,0.837,0.829,0.819,0.767,0.813,(5.4691)+(-0.0988)Asn+(0.0061)Gln+(0.0185)Thr+(-0.0172)Arg+(0.0069)Leu+(-0.1514)Trp;0.792,0.828,0.783,0.798,0.793,0.813,0.702,0.776,(3.5844)+(0.0278)Ser+(0.0014)Gln+(0.0040)Thr+(-0.0218)Arg+(0.0004)Val+(-0.1508)Trp;0.792,0.820,0.795,0.788,0.780,0.842,0.809,0.805,(4.0422)+(0.0113)Gln+(-0.1516)His+(-0.0031)Ala+(-0.0157)Arg+(-0.0079)Tyr+(0.0169)Leu;0.792,0.828,0.769,0.789,0.761,0.789,0.721,0.765,(-3.0204)+(0.0511)Ser+(-0.1069)Asn+(0.0025)Gln+(-0.2956)Met+(-0.0073)Leu+(0

.1138)Phe;0.792,0.825,0.822,0.829,0.818,0.825,0.810,0.821,(7.1786)+(-0.0221)Asn+(-0.0045)Ala+(0.0119)Pro+(0.0160)Tyr+(-0.1062)Met+(-0.1266)Trp;0.792,0.822,0.725,0.701,0.723,0.783,0.749,0.739,(3.7565)+(0.0032)Gly+(-0.1529)His+(0.0125)Thr+(0.0010)Pro+(-0.0065)Val+(0.0865)Phe;0.792,0.828,0.750,0.727,0.723,0.830,0.810,0.773,(-1.6128)+(0.0528)Ser+(-0.0051)Gly+(-0.0073)Ala+(0.0028)Tyr+(-0.3117)Met+(0.0780)Ile;0.792,0.821,0.718,0.674,0.722,0.800,0.764,0.740,(4.6997)+(0.0027)Gly+(-0.1505)His+(0.0091)Thr+(-0.0036)Pro+(0.0162)Orn+(0.0462)Ile;0.792,0.821,0.737,0.711,0.750,0.784,0.747,0.748,(4.9301)+(-0.1521)His+(0.0216)Thr+(-0.0160)Arg+(-0.0059)Lys+(0.0000)Leu+(0.0809)Phe;0.792,0.821,0.737,0.710,0.750,0.784,0.748,0.748,(4.9286)+(-0.1521)His+(0.0216)Thr+(-0.0161)Arg+(0.0000)Pro+(-0.0059)Lys+(0.0809)Phe;0.792,0.820,0.741,0.734,0.738,0.792,0.730,0.748,(4.3228)+(0.0057)Gly+(-0.1330)His+(-0.0407)Cit+(-0.0367)Tyr+(-0.0003)Lys+(0.1085)Phe;0.792,0.819,0.762,0.751,0.709,0.842,0.847,0.787,(5.0110)+(-0.1376)Asn+(-0.0033)Pro+(-0.0548)Val+(0.0322)Orn+(0.1765)Ile+(-0.0123)Leu;0.792,0.826,0.815,0.804,0.819,0.825,0.827,0.819,(7.0237)+(-0.0046)Ala+(-0.0654)Cit+(0.0131)Tyr+(-0.0161)Val+(0.0466)Leu+(-0.1537)Trp;0.792,0.822,0.734,0.710,0.729,0.815,0.752,0.751,(5.3675)+(0.0030)Gly+(-0.1175)His+(0.0115)Thr+(-0.0196)Arg+(0.1089)Ile+(-0.0446)Leu;0.792,0.821,0.753,0.723,0.744,0.830,0.792,0.772,(5.8702)+(0.0021)Gly+(-0.1257)His+(-0.0038)Ala+(-0.0218)Val+(0.0352)Orn+(0.0456)Leu;0.792,0.816,0.721,0.712,0.680,0.828,0.754,0.744,(0.8758)+(0.0285)Ser+(-0.0435)Cit+(-0.0311)Arg+(-0.0396)Val+(0.1938)Ile+(-0.0444)Leu;0.792,0.831,0.848,0.861,0.846,0.844,0.820,0.843,(5.0971)+(-0.0544)Asn+(0.0075)Gln+(0.0184)Tyr+(0.0000)Val+(-0.1227)Met+(-0.1368)Trp;0.792,0.826,0.717,0.684,0.660,0.822,0.845,0.753,(0.9218)+(0.0406)Ser+(-0.0108)Gly+(-0.0529)Val+(0.0199)Orn+(-0.0256)Lys+(0.1617)Ile;0.792,0.825,0.800,0.809,0.788,0.817,0.791,0.801,(5.7573)+(-0.0020)Gly+

(0.0081)Thr+(-0.0074)Ala+(0.0086)Pro+(0.0155)Orn+(-0.1468)Trp;0.792,0.823,0.802,0.800,0.823,0.803,0.765,0.798,(6.9755)+(-0.0730)Cit+(-0.0001)Arg+(0.0079)Pro+(0.0017)Val+(0.0010)Lys+(-0.1544)Trp;0.792,0.822,0.817,0.823,0.803,0.857,0.802,0.821,(4.6527)+(-0.0319)Asn+(0.0127)Gln+(-0.1311)His+(-0.0004)Ala+(-0.0125)Arg+(-0.0555)Met;0.792,0.831,0.723,0.684,0.757,0.837,0.676,0.739,(1.4151)+(0.0444)Ser+(-0.1243)Asn+(-0.1101)Cit+(0.0434)Orn+(-0.0236)Lys+(0.0438)Ile;0.792,0.829,0.776,0.793,0.766,0.797,0.737,0.773,(-2.2918)+(0.0540)Ser+(-0.0057)Gly+(-0.0170)Arg+(-0.0124)Val+(-0.3269)Met

+(0.1298)Phe;0.792,0.828,0.772,0.778,0.784,0.801,0.711,0.769,(3.1066)+(0.0298)Ser+(0.0009)Gln+(0.0028)Thr+(-0.0220)Arg+(0.0112)Leu+(-0.1598)Trp;0.792,0.823,0.808,0.809,0.791,0.852,0.811,0.816,(4.6870)+(-0.0466)Asn+(0.0119)Gln+(-0.1331)His+(-0.0037)Ala+(-0.0137)Arg+(0.0079)Pro;0.792,0.826,0.834,0.832,0.853,0.831,0.800,0.829,(7.7593)+(-0.0336)Asn+(-0.0565)Cit+(0.0243)Tyr+(-0.0927)Met+(0.0093)Lys+(-0.1423)Trp;0.792,0.823,0.789,0.775,0.789,0.808,0.813,0.796,(4.6949)+(0.0124)Asn+(-0.1185)His+(-0.0012)Ala+(-0.0036)Val+(-0.1755)Met+(0.1230)Phe;0.792,0.828,0.741,0.728,0.727,0.828,0.741,0.756,(-1.1514)+(0.0437)Ser+(0.0110)Thr+(-0.0073)Ala+(-0.0166)Arg+(-0.3201)Met+(0.0794)Ile;0.792,0.825,0.779,0.759,0.785,0.795,0.807,0.787,(4.2284)+(0.0172)Asn+(-0.1304)His+(-0.0014)Arg+(-0.2101)Met+(0.0073)Lys+(0.1161)Phe;0.792,0.822,0.789,0.785,0.747,0.855,0.843,0.807,(3.6350)+(-0.0118)Asn+(-0.0079)Ala+(-0.1873)Met+(0.0134)Orn+(0.1743)Ile+(-0.0802)Leu;0.792,0.829,0.708,0.687,0.707,0.760,0.726,0.720,(-5.3309)+(0.0548)Ser+(0.0052)Pro+(-0.4650)Met+(-0.0159)Orn+(0.0545)Ile+(0.0947)Phe;0.792,0.828,0.766,0.746,0.755,0.817,0.807,0.781,(4.5830)+(-0.1320)His+(-0.0041)Ala+(-0.0061)Val+(0.0293)Orn+(-0.0018)Lys+(0.0825)Phe;0.792,0.828,0.786,0.774,0.782,0.803,0.813,0.793,(4.6218)+(-0.1258)His+(-0.0017)Ala+(-0.0181)Tyr+(-0.1662)

Met+(0.0088)Lys+(0.1203)Phe;0.792,0.827,0.742,0.699,0.740,0.808,0.811,0.764,(4.5298)+(-0.1426)His+(-0.0032)Pro+(0.0210)Orn+(-0.0087)Lys+(0.0367)Ile+(0.0523)Phe;0.792,0.821,0.745,0.736,0.747,0.842,0.693,0.755,(4.9521)+(0.0348)Ser+(-0.1271)His+(0.0108)Thr+(-0.0017)Ala+(-0.0171)Arg+(-0.0044)Tyr;0.792,0.829,0.774,0.751,0.766,0.824,0.819,0.790,(5.0580)+(-0.0297)Asn+(-0.1291)His+(-0.0048)Ala+(0.0270)Orn+(-0.0013)Lys+(0.0752)Phe;0.792,0.826,0.748,0.720,0.766,0.809,0.737,0.758,(6.2105)+(0.0088)Asn+(-0.1335)His+(0.0321)Thr+(0.0050)Pro+(-0.2257)Met+(0.0232)Leu;0.792,0.821,0.720,0.720,0.643,0.780,0.837,0.745,(-0.2236)+(0.0343)Ser+(-0.0119)Gly+(-0.0742)Tyr+(-0.0520)Val+(0.1456)Ile+(0.0662)Phe;0.792,0.821,0.761,0.760,0.675,0.834,0.893,0.790,(1.2925)+(-0.0014)Gly+(-0.0113)Ala+(-0.0424)Val+(0.1942)Ile+(-0.0400)Leu+(0.0448)Phe;0.792,0.827,0.754,0.766,0.761,0.788,0.683,0.750,(-2.5428)+(0.0546)Ser+(-0.0876)Asn+(-0.0145)Arg+(-0.2975)Met+(0.0099)Orn+(0.1080)Phe;0.792,0.826,0.784,0.779,0.781,0.772,0.816,0.787,(3.6569)+(-0.0011)Gly+(0.0023)Gln+(-0.0024)Pro+(-0.0006)Orn+(0.0507)Ile+(-0.1753)Trp;0.792,0.826,0.803,0.806,0.799,0.817,0.795,0.804,(6.1598)+(-0.0054)Ala+(0.0105)Pro+(-0.1271)Met+(0.0202)Orn+(0.0110)Leu+(-0.1324)Trp;0.792,0.825,0.832,0.829,0.854,0.832,0.797,0.828,(7.9347)+(-0.0226)Asn+(-0.0619)Cit+(0.0231)Tyr+(0.0042)Val+(-0.0714)Met+(-0.1430)Trp;0.792,0.828,0.767,0.789,0.689,0.813,0.838,0.782,(1.0511)+(-0.0014)Thr+(-0.0099)Ala+(-0.0621)Tyr+(0.1773)Ile+(-0.0988)Leu+(0.0852)Phe;0.792,0.820,0.726,0.700,0.738,0.829,0.695,0.740,(4.1531)+(0.0375)Ser+(-0.1283)His+(0.0033)Thr+(-0.0330)Cit+(0.0067)Pro+(-0.0038)Lys;0.792,0.820,0.717,0.688,0.722,0.777,0.745,0.733,(3.6223)+(0.0037)Gly+(-0.1595)His+(0.0119)Thr+(-0.0003)Pro+(-0.0001)Leu+(0.0766)Phe;0.792,0.818,0.776,0.778,0.771,0.828,0.744,0.780,(4.4860)+(0.0102)Gln+(-0.1525)His+(0.0155)Thr+(-0.0237)Arg+(-0.0187)Tyr+(0.0037)Val;0.792,0.829,0.771,0.789,0.697,0.816,0.844,0.787,(

1.5115)+(-0.0097)Ala+(-0.0594)Tyr+(-0.0075)Lys+(0.1754)Ile+(-0.0945)Leu+(0.0872)Phe;0.792,0.826,0.742,0.710,0.760,0.789,0.756,0.753,(5.0764)+(-0.0517)Asn+(-0.1454)His+(0.0215)Thr+(-0.0158)Arg+(0.0177)Orn+(0.0723)Phe;0.792,0.826,0.815,0.809,0.830,0.811,0.799,0.812,(7.6050)+(-0.0441)Asn+(-0.0719)Cit+(0.0087)Arg+(0.0004)Lys+(0.0161)Leu+(-0.1520)Trp;0.792,0.825,0.786,0.782,0.780,0.792,0.806,0.790,(5.7464)+(-0.0521)Asn+(0.0011)Gly+(0.0005)Pro+(-0.0139)Tyr+(0.0527)Ile+(-0.1503)Trp;0.792,0.822,0.751,0.730,0.761,0.786,0.760,0.759,(5.3469)+(-0.0531)Asn+(-0.1430)His+(0.0241)Thr+(-0.0154)Arg+(-0.0038)Leu+(0.0838)Phe;0.792,0.822,0.795,0.786,0.794,0.841,0.785,0.802,(4.3171)+(-0.0544)Asn+(0.0116)Gln+(-0.1437)His+(-0.0190)Arg+(0.0238)Orn+(0.0036)Lys;0.792,0.830,0.726,0.725,0.750,0.771,0.648,0.724,(-3.2629)+(0.0521)Ser+(-0.0846)Cit+(0.0119)Pro+(-0.4094)Met+(-0.0069)Leu+(0.1249)Phe;0.792,0.829,0.844,0.862,0.838,0.840,0.815,0.839,(5.2945)+(-0.0550)Asn+(-0.0007)Gly+(0.0077)Gln+(0.0007)Val+(-0.0932)Met+(-0.1328)Trp;0.792,0.827,0.836,0.851,0.824,0.840,0.818,0.833,(5.3129)+(-0.0844)Asn+(0.0057)Gln+(-0.0037)Ala+(0.0205)Orn+(0.0022)Lys+(-0.1362)Trp;0.792,0.826,0.805,0.809,0.829,0.828,0.726,0.798,(7.2191)+(0.0001)Gly+(0.0167)Thr+(-0.0684)Cit+(-0.0057)Arg+(-0.0012)Lys+(-0.1555)Trp;0.792,0.824,0.757,0.735,0.735,0.830,0.806,0.777,(5.7930)+(0.0042)Gly+(-0.1213)His+(-0.0058)Ala+(-0.0055)Arg+(-0.0120)Tyr+(0.0629)Ile;0.792,0.821,0.810,0.816,0.829,0.818,0.746,0.802,(6.9998)+(0.0028)Gly+(-0.0643)Cit+(0.0045)Val+(-0.0834)Met+(0.0061)Lys+(-0.1435)Trp;0.792,0.827,0.769,0.769,0.774,0.804,0.731,0.770,(-2.2481)+(0.0510)Ser+(-0.0028)Gly+(-0.0041)Ala+(-0.0788)Cit+(-0.3254)Met+(0.1188)Phe;0.792,0.826,0.803,0.817,0.808,0.803,0.756,0.796,(7.1355)+(-0.0796)Asn+(-0.0018)Gly+(0.0172)Thr+(-0.0154)Tyr+(0.0196)Orn+(-0.1386)Trp;0.792,0.822,0.774,0.774,0.770,0.847,0.729,0.780,(2.8752)+(0.0448)Ser+(-0.0677)Asn+(-0.0080)Ala+(-0.0768)Cit+(0.0184)Pro+(-0.

1762)Met;0.792,0.821,0.723,0.703,0.721,0.795,0.731,0.737,(5.9365)+(0.0020)Gly+(-0.1352)His+(0.0199)Thr+(-0.0155)Arg+(-0.0343)Tyr+(0.0538)Ile;0.792,0.820,0.800,0.798,0.791,0.842,0.797,0.807,(4.4095)+(-0.0503)Asn+(0.0124)Gln+(-0.1401)His+(-0.0154)Arg+(0.0047)Pro+(0.0002)Val;0.792,0.818,0.719,0.719,0.663,0.819,0.760,0.740,(1.4243)+(0.0264)Ser+(-0.0337)Arg+(0.0009)Pro+(-0.0319)Tyr+(-0.0521)Val+(0.1609)Ile;0.792,0.829,0.748,0.727,0.755,0.798,0.755,0.759,(4.8796)+(-0.1264)His+(-0.0633)Cit+(-0.0011)Arg+(-0.0495)Tyr+(0.0470)Orn+(0.0926)Phe;0.792,0.829,0.793,0.795,0.777,0.821,0.805,0.799,(5.6873)+(0.0143)Thr+(-0.0052)Ala+(-0.0063)Tyr+(-0.0247)Val+(0.0541)Leu+(-0.1534)Trp;0.792,0.826,0.763,0.742,0.760,0.802,0.793,0.774,(4.9667)+(-0.0514)Asn+(-0.1218)His+(0.0029)Pro+(-0.0115)Val+(0.0301)Orn+(0.0844)Phe;0.792,0.824,0.747,0.716,0.749,0.812,0.777,0.763,(5.2082)+(0.0258)Asn+(0.0053)Gly+(-0.1203)His+(0.0022)Pro+(-0.1909)Met+(0.0674)Ile;0.792,0.829,0.815,0.832,0.812,0.812,0.777,0.808,(5.4524)+(-0.1067)Asn+(0.0055)Gln+(0.0164)Thr+(-0.0146)Tyr+(0.0082)Leu+(-0.1479)Trp;0.792,0.829,0.787,0.785,0.791,0.802,0.775,0.788,(5.7902)+(-0.0182)Arg+(0.0051)Pro+(-0.0285)Val+(0.0273)Orn+(0.0483)Leu+(-0.1464)Trp;0.792,0.825,0.820,0.823,0.835,0.841,0.766,0.816,(7.6967)+(-0.0544)Asn+(0.0039)Gly+(-0.0725)Cit+(0.0076)Arg+(0.0148)Tyr+(-0.1398)Trp;0.792,0.825,0.760,0.737,0.770,0.824,0.755,0.772,(6.6048)+(-0.1326)His+(0.0327)Thr+(-0.0024)Ala+(-0.1962)Met+(0.0012)Lys+(0.0264)Leu;0.792,0.823,0.724,0.692,0.723,0.793,0.763,0.743,(3.6797)+(0.0059)Gly+(-0.1490)His+(-0.0119)Arg+(-0.0021)Pro+(0.0369)Ile+(0.0619)Phe;0.792,0.822,0.815,0.827,0.820,0.816,0.775,0.810,(6.8646)+(-0.0464)Asn+(-0.0042)Val+(-0.0908)Met+(0.0278)Orn+(0.0080)Lys+(-0.1279)Trp;0.792,0.826,0.804,0.810,0.827,0.826,0.725,0.797,(7.2144)+(-0.0000)Gly+(0.0168)Thr+(-0.0674)Cit+(-0.0062)Arg+(-0.0033)Tyr+(-0.1551)Trp;0.792,0.822,0.772,0.759,0.777,0.831,0.752,0.780,(4.2414)+(-0.0003)Gly+(

0.0095)Gln+(-0.1557)His+(0.0106)Thr+(-0.0246)Arg+(0.0212)Orn;0.792,0.820,0.759,0.752,0.747,0.815,0.765,0.770,(4.4290)+(0.0053)Gly+(-0.1352)His+(-0.0037)Ala+(-0.0108)Arg+(-0.0035)Val+(0.0975)Phe;0.792,0.818,0.779,0.776,0.762,0.834,0.785,0.789,(4.3295)+(0.0084)Gln+(-0.1505)His+(0.0099)Thr+(-0.0031)Ala+(-0.0144)Tyr+(0.0053)Val;0.792,0.817,0.742,0.722,0.742,0.792,0.757,0.753,(4.2645)+(-0.0473)Asn+(0.0061)Gly+(-0.1380)His+(0.0021)Pro+(-0.0020)Leu+(0.0857)Phe;0.792,0.830,0.801,0.811,0.809,0.803,0.757,0.795,(6.5943)+(-0.0874)Asn+(0.0139)Thr+(0.0033)Pro+(0.0147)Orn+(0.0002)Lys+(-0.1437)Trp;0.792,0.827,0.805,0.798,0.814,0.811,0.803,0.807,(6.9789)+(-0.0690)Cit+(0.0054)Arg+(-0.0163)Val+(-0.0033)Lys+(0.0441)Leu+(-0.1547)Trp;0.792,0.824,0.769,0.758,0.770,0.834,0.747,0.777,(6.9024)+(-0.1134)His+(0.0265)Thr+(-0.0040)Ala+(0.0102)Pro+(0.0026)Val+(-0.1620)Met;0.792,0.818,0.792,0.785,0.774,0.843,0.809,0.803,(4.1160)+(0.0002)Gly+(0.0096)Gln+(-0.1501)His+(-0.0032)Ala+(0.0050)Val+(-0.0013)Lys;0.792,0.829,0.759,0.772,0.743,0.771,0.747,0.758,(-1.9625)+(0.0615)Ser+(-0.0959)Asn+(-0.0060)Gly+(-0.0293)Tyr+(-0.2558)Met+(0.1142)Phe;0.792,0.822,0.726,0.699,0.742,0.796,0.713,0.738,(4.2371)+(0.0052)Gly+(-0.1481)His+(0.0175)Thr+(-0.0489)Cit+(-0.0104)Lys+(0.0932)Phe;0.792,0.826,0.775,0.752,0.784,0.786,0.809,0.783,(4.2166)+(-0.1253)His+(-0.0006)Arg+(0.0060)Pro+(-0.2159)Met+(0.0070)Lys+(0.1109)Phe;0.792,0.814,0.764,0.745,0.751,0.822,0.804,0.780,(3.8345)+(0.0002)Gly+(0.0084)Gln+(-0.1534)His+(0.0025)Pro+(-0.0162)Val+(0.0360)Leu;0.792,0.834,0.808,0.807,0.804,0.828,0.803,0.810,(7.0674)+(-0.0718)Asn+(-0.0082)Arg+(-0.0323)Val+(0.0354)Orn+(0.0565)Leu+(-0.1273)Trp;0.792,0.829,0.793,0.796,0.797,0.812,0.764,0.792,(4.2143)+(0.0425)Ser+(-0.0080)Gly+(-0.0160)Arg+(0.0016)Val+(-0.0018)Lys+(-0.1466)Trp;0.792,0.826,0.751,0.745,0.666,0.841,0.878,0.783,(-1.8279)+(0.0345)Ser+(-0.0084)Gly+(-0.0142)Ala+(0.1759)Ile+(-0.0963)Leu+(0.0496)Phe;0.792,0.823,0.748,

0.731,0.755,0.831,0.717,0.758,(4.6012)+(0.0431)Ser+(-0.0501)Asn+(-0.1250)His+(-0.0116)Arg+(0.0041)Val+(0.0028)Lys;0.792,0.818,0.769,0.765,0.710,0.841,0.849,0.791,(4.2673)+(-0.1768)Asn+(0.0037)Gln+(0.0139)Thr+(-0.0557)Val+(0.1720)Ile+(-0.0078)Leu;0.792,0.816,0.771,0.760,0.763,0.824,0.778,0.781,(4.2307)+(-0.0007)Gly+(0.0085)Gln+(-0.1524)His+(0.0079)Thr+(0.0032)Pro+(-0.0038)Lys;0.792,0.826,0.751,0.726,0.773,0.810,0.725,0.759,(6.6607)+(-0.1296)His+(0.0348)Thr+(-0.0095)Arg+(0.0053)Pro+(-0.2131)Met+(0.0219)Leu;0.792,0.825,0.816,0.809,0.823,0.837,0.805,0.819,(8.6806)+(-0.0009)Asn+(-0.0770)His+(0.0016)Arg+(0.0275)Tyr+(-0.0518)Met+(-0.1018)Trp;0.792,0.824,0.816,0.831,0.816,0.828,0.769,0.811,(7.3642)+(-0.0808)Asn+(0.0190)Thr+(-0.0032)Ala+(-0.0014)Val+(0.0035)Lys+(-0.1382)Trp;0.792,0.824,0.818,0.832,0.819,0.830,0.773,0.814,(7.5978)+(-0.0743)Asn+(-0.0011)Gly+(0.0208)Thr+(-0.0032)Ala+(-0.0007)Val+(-0.1377)Trp;0.792,0.821,0.768,0.756,0.773,0.828,0.750,0.777,(4.1156)+(0.0095)Gln+(-0.1561)His+(0.0099)Thr+(-0.0247)Arg+(0.0023)Pro+(0.0199)Orn;0.792,0.821,0.783,0.775,0.769,0.835,0.794,0.793,(4.4559)+(-0.0008)Gly+(0.0082)Gln+(-0.1419)His+(-0.0027)Ala+(-0.0126)Tyr+(0.0271)Orn;0.792,0.820,0.827,0.837,0.83

5,0.827,0.784,0.821,(8.0488)+(-0.0356)Asn+(-0.0012)Ala+(-0.0542)Cit+(-0.0460)Met+(0.0098)Lys+(-0.1338)Trp;0.792,0.820,0.769,0.747,0.782,0.842,0.749,0.780,(4.5721)+(0.0080)Gln+(-0.1397)His+(0.0073)Thr+(-0.0685)Cit+(0.0425)Orn+(-0.0085)Lys;0.792,0.820,0.756,0.743,0.744,0.817,0.773,0.769,(4.3404)+(0.0056)Gly+(-0.1396)His+(-0.0045)Ala+(-0.0101)Arg+(0.0035)Leu+(0.0881)Phe;0.792,0.836,0.741,0.747,0.718,0.795,0.734,0.749,(-3.5068)+(0.0464)Ser+(-0.0075)Ala+(0.0157)Pro+(-0.3779)Met+(-0.0060)Leu+(0.1141)Phe;0.792,0.825,0.795,0.797,0.789,0.792,0.805,0.796,(5.0054)+(-0.0026)Gly+(0.0018)Gln+(0.0099)Thr+(-0.0245)Val+(0.0454)Leu+(-0.1617)Trp;0.792,0.821,0.813,0.818,0.798,0.854,0.802,0.818,(4.7126

)+(-0.0471)Asn+(0.0008)Gly+(0.0123)Gln+(-0.1345)His+(-0.0013)Ala+(-0.0141)Arg;0.792,0.824,0.787,0.769,0.788,0.810,0.817,0.796,(4.5723)+(0.0172)Asn+(-0.1231)His+(-0.0018)Ala+(0.0014)Arg+(-0.1820)Met+(0.1180)Phe;0.792,0.829,0.840,0.838,0.857,0.846,0.809,0.837,(8.2468)+(-0.0252)Asn+(-0.0018)Ala+(-0.0580)Cit+(0.0279)Tyr+(-0.0555)Met+(-0.1344)Trp;0.792,0.816,0.747,0.722,0.731,0.822,0.795,0.767,(6.1488)+(-0.1300)His+(0.0164)Thr+(-0.0054)Ala+(0.0065)Pro+(-0.0214)Val+(0.0466)Leu;0.792,0.834,0.795,0.811,0.801,0.760,0.764,0.784,(4.0000)+(-0.0167)Arg+(-0.0310)Tyr+(0.0160)Orn+(-0.0006)Lys+(0.0863)Phe+(-0.1557)Trp;0.792,0.823,0.824,0.822,0.842,0.824,0.791,0.820,(7.8786)+(-0.0438)Asn+(-0.0702)Cit+(0.0079)Arg+(0.0086)Tyr+(0.0036)Val+(-0.1458)Trp;0.792,0.818,0.759,0.736,0.757,0.817,0.784,0.773,(3.4931)+(0.0004)Gly+(0.0082)Gln+(-0.1623)His+(0.0009)Pro+(0.0159)Orn+(0.0097)Leu;0.792,0.831,0.742,0.767,0.742,0.777,0.651,0.734,(-2.8160)+(0.0366)Ser+(0.0191)Thr+(-0.0192)Tyr+(-0.0141)Val+(-0.3914)Met+(0.1419)Phe;0.792,0.829,0.755,0.731,0.764,0.837,0.742,0.769,(3.8921)+(0.0485)Ser+(-0.0033)Gly+(-0.1249)His+(0.0106)Tyr+(0.0078)Val+(-0.1399)Met;0.792,0.822,0.766,0.743,0.741,0.828,0.838,0.787,(6.3171)+(-0.0063)Asn+(-0.1140)His+(-0.0067)Ala+(0.0051)Pro+(-0.0188)Tyr+(0.0565)Ile;0.792,0.820,0.724,0.701,0.738,0.787,0.712,0.735,(4.2391)+(0.0043)Gly+(-0.1554)His+(0.0193)Thr+(-0.0183)Arg+(-0.0050)Lys+(0.0867)Phe;0.792,0.827,0.826,0.839,0.828,0.822,0.792,0.820,(4.7217)+(0.0064)Gln+(-0.0097)Arg+(0.0084)Pro+(0.0147)Tyr+(-0.1745)Met+(-0.1378)Trp;0.792,0.821,0.772,0.756,0.775,0.825,0.773,0.782,(3.6926)+(0.0104)Gln+(-0.1586)His+(-0.0205)Arg+(0.0018)Pro+(0.0196)Orn+(0.0082)Leu;0.792,0.826,0.802,0.813,0.811,0.796,0.763,0.796,(6.9249)+(-0.0856)Asn+(-0.0008)Gly+(0.0162)Thr+(0.0042)Pro+(0.0017)Lys+(-0.1456)Trp;0.792,0.826,0.804,0.816,0.786,0.826,0.791,0.805,(4.7260)+(0.0023)Gln+(0.0047)Thr+(-0.0076)Ala+(0.0085)Pro+(0.0134)Orn+(-0.1487)Trp;0.792

,0.826,0.778,0.770,0.776,0.772,0.805,0.781,(3.5500)+(0.0018)Gln+(0.0027)Thr+(-0.0028)Pro+(-0.0022)Orn+(0.0515)Ile+(-0.1770)Trp;0.792,0.828,0.720,0.696,0.748,0.801,0.666,0.728,(-0.8803)+(0.0442)Ser+(0.0118)Thr+(-0.0806)Cit+(0.0039)Pro+(-0.3838)Met+(0.0666)Ile;0.792,0.827,0.754,0.783,0.747,0.782,0.675,0.747,(0.3054)+(0.0481)Ser+(-0.1586)Asn+(-0.0747)Cit+(-0.0594)Tyr+(-0.0125)Leu+(0.1171)Phe;0.792,0.825,0.712,0.727,0.648,0.771,0.762,0.727,(-2.5009)+(0.0326)Ser+(-0.0195)Thr+(-0.0693)Tyr+(0.1716)Ile+(-0.1032)Leu+(0.0876)Phe;0.792,0.832,0.782,0.777,0.789,0.798,0.771,0.784,(3.7026)+(0.0445)Ser+(-0.0080)Gly+(-0.0145)Arg+(-0.0059)Lys+(0.0145)Leu+(-0.1536)Trp;0.792,0.831,0.725,0.723,0.766,0.778,0.606,0.718,(-3.0554)+(0.0439)Ser+(0.0148)Thr+(-0.1019)Cit+(-0.4279)Met+(0.0219)Orn+(0.1179)Phe;0.792,0.825,0.754,0.734,0.751,0.812,0.774,0.768,(4.9672)+(-0.1464)His+(0.0213)Thr+(-0.0052)Ala+(-0.0178)Arg+(0.0018)Leu+(0.0827)Phe;0.792,0.824,0.793,0.781,0.797,0.850,0.775,0.801,(4.8335)+(-0.0633)Asn+(0.0105)Gln+(-0.1228)His+(-0.0693)Cit+(-0.0178)Tyr+(0.0453)Orn;0.792,0.824,0.818,0.811,0.823,0.844,0.808,0.822,(8.7041)+(-0.0767)His+(-0.0007)Ala+(0.0015)Arg+(0.0284)Tyr+(-0.0496)Met+(-0.1016)Trp;0.792,0.831,0.717,0.703,0.752,0.778,0.637,0.718,(-3.4375)+(0.0510)Ser+(-0.0986)Cit+(0.0096)Pro+(-0.4161)Met+(0.0200)Orn+(0.1133)Phe;0.792,0.830,0.782,0.774,0.781,0.786,0.803,0.786,(3.9403)+(0.0024)Gln+(0.0060)Thr+(0.0005)Orn+(-0.0118)Lys+(0.0546)Ile+(-0.1688)Trp;0.792,0.829,0.749,0.732,0.718,0.863,0.779,0.773,(1.0834)+(0.0368)Ser+(-0.0116)Ala+(-0.0933)Cit+(-0.0201)Tyr+(-0.0214)Lys+(0.0832)Ile;0.792,0.827,0.755,0.734,0.790,0.836,0.679,0.760,(6.6340)+(0.0029)Gly+(-0.1136)His+(0.0218)Thr+(-0.0693)Cit+(-0.1470)Met+(0.0472)Orn;0.792,0.824,0.796,0.796,0.817,0.810,0.740,0.791,(6.7108)+(0.0024)Gly+(-0.0751)Cit+(-0.0010)Arg+(0.0085)Pro+(0.0014)Lys+(-0.1526)Trp;0.792,0.822,0.782,0.775,0.768,0.838,0.789,0.793,(4.4324)+(0.0081)Gln+(-0.1416)His+(-

0.0027)Ala+(-0.0111)Tyr+(0.0273)Orn+(-0.0011)Lys;0.792,0.819,0.767,0.750,0.764,0.822,0.779,0.779,(3.9780)+(0.0083)Gln+(-0.1517)His+(0.0027)Pro+(0.0001)Val+(0.0214)Orn+(-0.0039)Lys;0.792,0.827,0.781,0.785,0.776,0.797,0.769,0.782,(5.8174)+(0.0158)Thr+(-0.0138)Tyr+(-0.0255)Val+(-0.0069)Lys+(0.0532)Leu+(-0.1527)Trp;0.792,0.827,0.794,0.811,0.797,0.794,0.744,0.787,(7.0110)+(-0.0841)Asn+(0.0169)Thr+(0.0055)Pro+(-0.0156)Tyr+(0.0025)Lys+(-0.1405)Trp;0.792,0.826,0.790,0.793,0.738,0.865,0.840,0.809,(4.6025)+(-0.0105)Ala+(-0.0815)Cit+(-0.0267)Tyr+(-0.0030)Lys+(0.1807)Ile+(-0.0801)Leu;0.792,0.825,0.741,0.719,0.745,0.796,0.754,0.753,(4.1011)+(-0.0494)Asn+(0.0055)Gly+(-0.1390)His+(0.0219)Orn+(-0.0039)Leu+(0.0811)Phe;0.792,0.819,0.757,0.741,0.747,0.840,0.763,0.773,(4.6192)+(0.0424)Ser+(-0.0049)Gly+(-0.1236)His+(-0.0016)Ala+(-0.0043)Tyr+(-0.0003)Lys;0.792,0.828,0.736,0.741,0.736,0.764,0.701,0.736,(-3.5784)+(0.0546)Ser+(-0.0955)Asn+(0.0015)Gln+(0.0085)Pro+(-0.3507)Met+(0.1071)Phe;0.792,0.827,0.775,0.789,0.753,0.798,0.764,0.776,(-2.5899)+(0.0508)Ser+(-0.0056)Gly+(-0.0014)Ala+(-0.0117)Val+(-0.3377)Met+(0.1252)Phe;0.792,0.826,0.781,0.764,0.783,0.796,0.807,0.788,(4.5165)+(-0.1125)His+(0.0011)Arg+(0.0078)Pro+(-0.0069)Val+(-0.1991)Met+(0.1228)Phe;0.792,0.834,0.742,0.733,0.714,0.840,0.755,0.760,(-0.3905)+(0.0406)Ser+(-0.2981)Met+(0.0012)Orn+(-0.0038)Lys+(0.1695)Ile+(-0.0731)Leu;0.792,0.824,0.795,0.791,0.792,0.843,0.779,0.801,(4.6437)+(-0.0476)Asn+(0.0113)Gln+(-0.1365)His+(-0.0170)Arg+(-0.0122)Tyr+(0.0285)Orn;0.792,0.821,0.737,0.732,0.723,0.774,0.754,0.746,(4.2217)+(0.0037)Gly+(-0.1342)His+(0.0051)Pro+(-0.0406)Tyr+(-0.0045)Val+(0.1043)Phe;0.792,0.821,0.745,0.741,0.730,0.782,0.757,0.753,(4.2267)+(0.0039)Gly+(-0.1372)His+(-0.0374)Tyr+(-0.0038)Val+(0.0022)Lys+(0.1059)Phe;0.792,0.820,0.772,0.768,0.714,0.845,0.852,0.795,(4.3164)+(-0.1804)Asn+(0.0038)Gln+(0.0152)Thr+(-0.0028)Pro+(-0.0584)Val+(0.1709)Ile;0.792,0.829,0.840,0.847,0.8

42,0.830,0.823,0.835,(4.6469)+(-0.0504)Asn+(0.0073)Gln+(0.0166)Tyr+(-0.1461)Met+(0.0130)Leu+(-0.1437)Trp;0.792,0.828,0.846,0.866,0.839,0.846,0.811,0.840,(5.3864)+(-0.0532)Asn+(0.0079)Gln+(-0.0010)Ala+(-0.0058)Arg+(-0.0788)Met+(-0.1295)Trp;0.792,0.828,0.773,0.778,0.771,0.779,0.760,0.772,(4.2209)+(0.0033)Gln+(0.0125)Thr+(-0.0249)Arg+(-0.0240)Tyr+(0.0533)Ile+(-0.1673)Trp;0.792,0.827,0.816,0.810,0.833,0.812,0.802,0.814,(7.5735)+(-0.0451)Asn+(-0.0728)Cit+(0.0085)Arg+(0.0050)Tyr+(0.0158)Leu+(-0.1535)Trp;0.792,0.817,0.753,0.727,0.742,0.826,0.793,0.772,(6.5573)+(-0.1319)His+(0.0208)Thr+(-0.0037)Ala+(-0.0213)Val+(-0.0056)Lys+(0.0513)Leu;0.792,0.834,0.730,0.750,0.714,0.768,0.682,0.729,(-3.0346)+(0.0454)Ser+(0.0145)Pro+(-0.0192)Tyr+(-0.0163)Val+(-0.3813)Met+(0.1371)Phe;0.792,0.830,0.765,0.762,0.760,0.781,0.774,0.769,(5.0211)+(0.0109)Thr+(-0.0256)Tyr+(0.0058)Orn+(-0.0101)Lys+(0.0566)Ile+(-0.1579)Trp;0.792,0.826,0.805,0.804,0.794,0.847,0.798,0.811,(4.1464)+(-0.0296)Asn+(0.0011)Gly+(0.0116)Gln+(-0.1388)His+(0.0046)Val+(-0.0886)Met;0.792,0.819,0.724,0.720,0.674,0.827,0.763,0.746,(1.7265)+(0.0257)Ser+(-0.0431)Cit+(-0.0244)Arg+(-0.0333)Tyr+(-0.0490)Val+(0.1581)Ile;0.792,0.818,0.764,0.747,0.761,0.819,0.777,0.776,(3.9855)+(-0.0006)Gly+(0.0077)Gln+(-0.1562)His+(0.0050)Thr+(-0.0001)Val+(0.0194)Orn;0.792,0.817,0.777,0.756,0.776,0.829,0.798,0.790,(3.8408)+(0.0105)Gln+(-0.1517)His+(-0.0391)Cit+(0.0019)Pro+(-0.0061)Lys+(0.0161)Leu;0.792,0.816,0.759,0.747,0.748,0.808,0.780,0.770,(4.1096)+(-0.0011)Gly+(0.0082)Gln+(-0.1590)His+(0.0114)Thr+(-0.0252)Tyr+(0.0159)Leu;0.792,0.826,0.761,0.795,0.729,0.789,0.719,0.758,(0.3768)+(0.0447)Ser+(-0.1901)Asn+(-0.0553)Tyr+(-0.0209)Val+(0.0300)Orn+(0.1229)Phe;0.792,0.824,0.789,0.768,0.795,0.852,0.786,0.800,(4.4468)+(-0.0693)Asn+(0.0106)Gln+(-0.1312)His+(-0.0660)Cit+(0.0025)Pro+(0.0389)Orn;0.792,0.823,0.794,0.779,0.801,0.851,0.780,0.803,(4.5561)+(-0.0618)Asn+(0.0114)Gln+(-0.1308)His+(-0.0602)Ci

t+(-0.0090)Arg+(0.0401)Orn;0.792,0.823,0.807,0.822,0.790,0.827,0.791,0.807,(4.9556)+(0.0029)Gln+(0.0079)Thr+(-0.0071)Ala+(0.0092)Pro+(-0.0029)Lys+(-0.1470)Trp;0.792,0.821,0.773,0.763,0.771,0.822,0.767,0.781,(4.0385)+(0.0102)Gln+(-0.1527)His+(-0.0192)Arg+(-0.0192)Tyr+(0.0242)Orn+(0.0112)Leu;0.792,0.816,0.786,0.786,0.767,0.836,0.787,0.794,(4.7079)+(-0.0015)Gly+(0.0084)Gln+(-0.1434)His+(0.0109)Thr+(-0.0023)Ala+(-0.0125)Tyr;0.792,0.829,0.769,0.754,0.771,0.861,0.738,0.781,(2.8848)+(0.0384)Ser+(-0.1370)Asn+(-0.0118)Ala+(-0.1173)Cit+(0.0125)Pro+(0.0498)Orn;0.792,0.826,0.782,0.773,0.782,0.773,0.810,0.785,(3.7099)+(-0.0016)Gly+(0.0019)Gln+(0.0035)Thr+(-0.0029)Pro+(0.0500)Ile+(-0.1773)Trp;0.792,0.818,0.784,0.775,0.762,0.842,0.809,0.797,(4.0514)+(0.0004)Gly+(0.0089)Gln+(-0.1469)His+(-0.0052)Ala+(0.0072)Pro+(0.0031)Val;0.792,0.823,0.770,0.749,0.748,0.822,0.837,0.789,(5.0657)+(-0.1299)His+(-0.0040)Ala+(-0.0185)Val+(-0.0013)Lys+(0.0323)Leu+(0.0790)Phe;0.792,0.826,0.751,0.742,0.747,0.788,0.760,0.759,(4.9226)+(-0.1319)His+(-0.0104)Arg+(-0.0458)Tyr+(0.0325)Orn+(-0.0036)Leu+(0.0957)Phe;0.792,0.825,0.774,0.751,0.769,0.819,0.810,0.787,(5.1858)+(-0.0241)Asn+(-0.1285)His+(-0.0048)Ala+(-0.0080)Arg+(0.0282)Orn+(0.0751)Phe;0.792,0.822,0.728,0.706,0.733,0.824,0.704,0.742,(4.0984)+(0.0363)Ser+(-0.1395)His+(0.0051)Thr+(-0.0119)Tyr+(0.0069)Val+(-0.0040)Lys;0.792,0.829,0.793,0.797,0.797,0.812,0.762,0.792,(4.2782)+(0.0421)Ser+(-0.0081)Gly+(-0.0163)Arg+(-0.0060)Tyr+(0.0016)Val+(-0.1455)Trp;0.792,0.827,0.792,0.782,0.788,0.843,0.790,0.801,(3.9976)+(0.0099)Gln+(-0.1422)His+(0.0023)Tyr+(0.0026)Val+(-0.1183)Met+(0.0230)Orn;0.792,0.820,0.779,0.749,0.769,0.839,0.834,0.798,(6.3203)+(0.0347)Asn+(-0.1016)His+(-0.0059)Ala+(-0.0393)Cit+(-0.1415)Met+(0.0754)Ile;0.792,0.818,0.775,0.774,0.751,0.836,0.783,0.786,(4.5104)+(0.0079)Gln+(-0.139

6)His+(0.0089)Thr+(-0.0044)Ala+(0.0084)Pro+(-0.0172)Tyr;0.792,0.829,0

.793,0.796,0.787,0.822,0.781,0.796,(6.2251)+(0.0199)Thr+(-0.0049)Ala+(-0.0183)Arg+(-0.0257)Val+(0.0557)Leu+(-0.1538)Trp;0.792,0.829,0.797,0.782,0.792,0.840,0.816,0.807,(3.5135)+(0.0115)Gln+(-0.1497)His+(0.0065)Tyr+(-0.1525)Met+(0.0011)Lys+(0.0206)Leu;0.792,0.826,0.754,0.732,0.760,0.833,0.742,0.767,(3.9671)+(0.0476)Ser+(-0.0036)Gly+(-0.1242)His+(0.0078)Val+(-0.1298)Met+(0.0024)Lys;0.792,0.825,0.748,0.743,0.665,0.851,0.862,0.780,(-0.5888)+(0.0360)Ser+(-0.0232)Thr+(-0.0126)Ala+(0.0067)Pro+(0.1777)Ile+(-0.0877)Leu;0.792,0.830,0.806,0.805,0.799,0.808,0.822,0.808,(7.1258)+(-0.0673)Asn+(0.0072)Pro+(-0.0019)Tyr+(-0.0277)Val+(0.0515)Leu+(-0.1318)Trp;0.792,0.824,0.803,0.810,0.809,0.812,0.765,0.799,(6.2345)+(0.0083)Pro+(0.0092)Tyr+(-0.0037)Val+(-0.1509)Met+(0.0237)Orn+(-0.1277)Trp;0.792,0.823,0.760,0.744,0.756,0.835,0.758,0.773,(4.9345)+(0.0463)Ser+(-0.0583)Asn+(-0.0043)Gly+(-0.1151)His+(-0.0057)Tyr+(0.0026)Lys;0.792,0.823,0.771,0.759,0.777,0.830,0.749,0.779,(4.2623)+(0.0094)Gln+(-0.1550)His+(0.0108)Thr+(-0.0242)Arg+(0.0216)Orn+(-0.0008)Lys;0.792,0.822,0.787,0.791,0.724,0.854,0.860,0.807,(4.1519)+(-0.1366)Asn+(0.0057)Gln+(-0.0170)Arg+(-0.0010)Pro+(-0.0561)Val+(0.1663)Ile;0.792,0.822,0.771,0.759,0.776,0.831,0.750,0.779,(4.2559)+(0.0094)Gln+(-0.1549)His+(0.0106)Thr+(-0.0246)Arg+(-0.0004)Val+(0.0217)Orn;0.792,0.821,0.746,0.728,0.756,0.831,0.715,0.757,(4.6723)+(0.0432)Ser+(-0.0521)Asn+(-0.1193)His+(-0.0319)Cit+(-0.0057)Tyr+(0.0060)Val;0.792,0.819,0.776,0.784,0.708,0.840,0.852,0.796,(4.4112)+(-0.1432)Asn+(0.0012)Gly+(0.0044)Gln+(-0.0236)Tyr+(-0.0533)Val+(0.1627)Ile;0.792,0.819,0.764,0.748,0.758,0.816,0.781,0.776,(3.9458)+(-0.0004)Gly+(0.0083)Gln+(-0.1547)His+(-0.0226)Tyr+(0.0211)Orn+(0.0124)Leu;0.792,0.819,0.756,0.744,0.745,0.814,0.768,0.768,(4.2928)+(0.0056)Gly+(-0.1395)His+(-0.0044)Ala+(-0.0115)Arg+(0.0020)Lys+(0.0907)Phe;0.792,0.826,0.804,0.817,0.798,0.820,0.776,0.802,(6.3379)+(-0.0063)Ala+(-0.0153)Arg+(0.0103)P

ro+(-0.0030)Val+(0.0267)Orn+(-0.1324)Trp;0.792,0.822,0.757,0.744,0.695,0.847,0.852,0.785,(3.8294)+(-0.0092)Ala+(-0.0249)Arg+(-0.0556)Val+(0.0312)Orn+(-0.0073)Lys+(0.1804)Ile;0.792,0.820,0.796,0.787,0.781,0.846,0.814,0.807,(3.9438)+(0.0112)Gln+(-0.1539)His+(-0.0035)Ala+(-0.0163)Arg+(0.0004)Lys+(0.0161)Leu;0.792,0.829,0.763,0.766,0.766,0.785,0.732,0.762,(2.8825)+(0.0295)Ser+(-0.0002)Gln+(-0.0019)Thr+(-0.0129)Tyr+(0.0122)Leu+(-0.1564)Trp;0.792,0.821,0.729,0.709,0.724,0.794,0.749,0.744,(6.2973)+(-0.1326)His+(0.0219)Thr+(-0.0138)Arg+(-0.0359)Tyr+(-0.0022)Lys+(0.0539)Ile;0.792,0.825,0.835,0.833,0.852,0.842,0.804,0.833,(8.0043)+(-0.0315)Asn+(-0.0633)Cit+(0.0092)Arg+(0.0240)Tyr+(-0.0709)Met+(-0.1367)Trp;0.792,0.825,0.795,0.789,0.793,0.847,0.777,0.801,(4.1559)+(0.0112)Gln+(-0.1410)His+(-0.0158)Arg+(0.0021)Val+(-0.0970)Met+(0.0261)Orn;0.792,0.828,0.748,0.720,0.769,0.815,0.733,0.759,(6.2454)+(-0.1372)His+(0.0299)Thr+(-0.2003)Met+(0.0208)Orn+(-0.0005)Lys+(0.0220)Leu;0.792,0.819,0.743,0.737,0.739,0.793,0.733,0.751,(4.3462)+(0.0055)Gly+(-0.1310)His+(-0.0394)Cit+(-0.0356)Tyr+(-0.0023)Val+(0.1114)Phe;0.792,0.813,0.771,0.773,0.706,0.843,0.851,0.793,(3.9287)+(-0.1520)Asn+(0.0020)Gly+(0.0040)Gln+(-0.0508)Val+(0.1734)Ile+(-0.0153)Leu;0.792,0.827,0.841,0.861,0.837,0.827,0.804,0.832,(5.1246)+(-0.0585)Asn+(0.0077)Gln+(-0.0109)Arg+(-0.1028)Met+(0.0095)Lys+(-0.1377)Trp;0.792,0.827,0.795,0.803,0.793,0.812,0.768,0.794,(6.0696)+(0.0154)Thr+(-0.0075)Ala+(-0.0187)Arg+(0.0090)Pro+(0.0117)Leu+(-0.1539)Trp;0.792,0.826,0.761,0.748,0.762,0.849,0.731,0.772,(4.0777)+(0.0407)Ser+(-0.1187)His+(-0.0005)Ala+(0.0193)Tyr+(-0.1502)Met+(0.0056)Lys;0.792,0.823,0.781,0.776,0.798,0.863,0.698,0.784,(3.0389)+(0.0391)Ser+(-0.0935)Asn+(-0.0057)Ala+(-0.1072)Cit+(-0.1245)Met+(0.0533)Orn;0.792,0.819,0.750,0.737,0.745,0.795,0.762,0.760,(4.5346)+(-0.0567)Asn+(0.0058)Gly+(-0.1276)His+(0.0037)Pro+(-0.0081)Val+(0.0969)Phe;0.792,0.819,0.738,0.699,0.746,0.814,

0.773,0.758,(6.0226)+(-0.1302)His+(0.0178)Thr+(-0.0412)Cit+(-0.0034)Pro+(-0.0093)Lys+(0.0560)Ile;0.792,0.823,0.815,0.824,0.827,0.828,0.755,0.809,(7.6719)+(-0.0563)Asn+(0.0033)Gly+(-0.0668)Cit+(0.0048)Arg+(0.0061)Lys+(-0.1386)Trp;0.792,0.818,0.754,0.724,0.742,0.826,0.806,0.774,(6.0175)+(-0.1203)His+(-0.0055)Ala+(0.0073)Pro+(-0.0235)Val+(0.0336)Orn+(0.0448)Leu;0.792,0.817,0.771,0.755,0.773,0.830,0.763,0.780,(3.8872)+(0.0103)Gln+(-0.1608)His+(0.0126)Thr+(-0.0263)Cit+(-0.0192)Arg+(0.0134)Leu;0.792,0.816,0.768,0.767,0.701,0.844,0.859,0.793,(3.9584)+(-0.0090)Ala+(-0.0220)Arg+(-0.0426)Val+(-0.0014)Lys+(0.2039)Ile+(-0.0349)Leu;0.792,0.831,0.767,0.770,0.779,0.802,0.705,0.764,(3.3942)+(0.0319)Ser+(0.0048)Thr+(-0.0183)Arg+(-0.0058)Lys+(0.0145)Leu+(-0.1565)Trp;0.792,0.819,0.785,0.777,0.764,0.842,0.811,0.799,(4.1163)+(0.0091)Gln+(-0.1462)His+(-0.0051)Ala+(0.0071)Pro+(0.0033)Val+(-0.0011)Lys;0.792,0.828,0.760,0.772,0.759,0.793,0.710,0.758,(-2.3296)+(0.0538)Ser+(-0.0913)Asn+(-0.2852)Met+(-0.0052)Lys+(-0.0039)Leu+(0.1152)Phe;0.792,0.827,0.753,0.775,0.750,0.781,0.683,0.747,(-2.1067)+(0.0543)Ser+(-0.0906)Asn+(-0.0127)Arg+(-0.0244)Tyr+(-0.2545)Met+(0.1185)Phe;0.792,0.829,0.761,0.736,0.748,0.821,0.812,0.779,(4.6485)+(-0.1333)His+(-0.0063)Ala+(0.0055)Pro+(0.0244)Orn+(-0.0036)Lys+(0.0716)Phe;0.792,0.817,0.753,0.759,0.670,0.833,0.854,0.779,(3.3804)+(-0.0101)Ala+(0.0058)Pro+(-0.0310)Tyr+(-0.0392)Val+(0.1884)Ile+(-0.0336)Leu;0.792,0.826,0.788,0.783,0.783,0.792,0.806,0.791,(5.8131)+(-0.0532)Asn+(0.0001)Pro+(-0.0172)Tyr+(0.0114)Orn+(0.0492)Ile+(-0.1492)Trp;0.792,0.825,0.767,0.758,0.771,0.849,0.722,0.775,(5.2090)+(0.0423)Ser+(-0.0378)Asn+(-0.1019)His+(-0.0003)Ala+(-0.0273)Cit+(-0.0626)Met;0.792,0.824,0.747,0.730,0.754,0.831,0.715,0.758,(4.6705)+(0.0433)Ser+(-0.0449)Asn+(-0.1241)His+(-0.0103)Arg+(-0.0042)Tyr+(0.0053)Val;0.792,0.823,0.744,0.718,0.736,0.817,0.777,0.762,(5.7387)+(-0.1162)His+(0.0129)Thr+(-0.0192)Arg+(0.0009)Lys+(0

.1089)Ile+(-0.0465)Leu;0.792,0.822,0.748,0.719,0.748,0.815,0.778,0.765,(5.2808)+(0.0257)Asn+(0.0053)Gly+(-0.1208)His+(-0.0003)Arg+(-0.1841)Met+(0.0698)Ile;0.792,0.828,0.805,0.814,0.798,0.803,0.799,0.804,(4.8624)+(0.0038)Gln+(-0.0177)Arg+(0.0057)Pro+(-0.0234)Val+(0.0434)Leu+(-0.1536)Trp;0.792,0.819,0.768,0.751,0.765,0.823,0.780,0.780,(3.9939)+(-0.0002)Gly+(0.0083)Gln+(-0.1515)His+(0.0027)Pro+(0.0215)Orn+(-0.0039)Lys;0.792,0.829,0.788,0.795,0.782,0.829,0.755,0.790,(3.5283)+(0.0279)Ser+(0.0006)Thr+(-0.0043)Ala+(-0.0005)Tyr+(0.0031)Val+(-0.1471)Trp;0.792,0.821,0.816,0.828,0.804,0.825,0.802,0.815,(7.1546)+(-0.0493)Asn+(0.0009)Gly+(-0.0053)Ala+(0.0113)Pro+(-0.0010)Val+(-0.1261)Trp;0.791,0.828,0.800,0.788,0.807,0.801,0.818,0.804,(5.5737)+(-0.0039)Arg+(0.0157)Tyr+(-0.1892)Met+(0.0023)Lys+(0.0635)Ile+(-0.1482)Trp;0.791,0.827,0.754,0.737,0.776,0.823,0.705,0.760,(6.8361)+(-0.1197)His+(0.0272)Thr+(-0.0140)Arg+(0.0065)Pro+(-0.1662)Met+(0.0280)Orn;0.791,0.826,0.837,0.837,0.848,0.847,0.811,0.836,(8.1817)+(-0.0429)Asn+(-0.0025)Ala+(-0.0662)Cit+(0.0084)Arg+(0.0174)Tyr+(-0.1363)Trp;0.791,0.819,0.755,0.730,0.755,0.815,0.780,0.770,(3.5666)+(-0.0000)Gly+(0.0077)Gln+(-0.1654)His+(0.0054)Thr+(0.0141)Orn+(0.0105)Leu;0.791,0.826,0.798,0.791,0.818,0.798,0.777,0.796,(6.9448)+(-0.0750)Cit+(0.0071)Pro+(-0.0053)Tyr+(-0.0013)Lys+(0.0136)Leu+(-0.1589)Trp;0.791,0.824,0.779,0.752,0.765,0.833,0.841,0.798,(6.4101)+(-0.1026)His+(-0.0063)Ala+(0.0063)Pro+(0.0001)Tyr+(-0.1331)Met+(0.0642)Ile;0.791,0.824,0.752,0.722,0.764,0.818,0.762,0.766,(5.5800)+(0.0072)Gly+(-0.1116)His+(-0.0432)Cit+(-0.1650)Met+(0.0038)Lys+(0.0677)Ile;0.791,0.823,0.732,0.744,0.699,0.789,0.732,0.741,(1.0530)+(-0.1092)Cit+(-0.0820)Tyr+(0.0333)Orn+(0.1650)Ile+(-0.1014)Leu+(0.0936)Phe;0.791,0.822,0.745,0.717,0.738,0.822,0.777,0.763,(5.7450)+(-0.1088)His+(0.0121)Thr+(-0.0342)Cit+(-0.0122)Arg+(0.1112)Ile+(-0.0465)Leu;0.791,0.817,0.758,0.747,0.704,0.841,0.842,0.783,(5.3390)+(

-0.1504)Asn+(0.0169)Thr+(-0.0566)Val+(-0.0038)Lys+(0.1729)Ile+(-0.0043)Leu;0.791,0.818,0.772,0.760,0.774,0.828,0.760,0.781,(3.9373)+(0.0005)Gly+(0.0100)Gln+(-0.1520)His+(-0.0211)Arg+(0.0030)Pro+(0.0228)Orn;0.791,0.829,0.741,0.723,0.756,0.808,0.709,0.749,(-0.0936)+(0.0509)Ser+(-0.0570)Asn+(-0.0714)Cit+(-0.0019)Tyr+(-0.2741)Met+(0.0669)Ile;0.791,0.824,0.720,0.676,0.727,0.804,0.762,0.742,(5.0227)+(0.0026)Gly+(-0.1439)His+(0.0112)Thr+(0.0181)Orn+(-0.0087)Lys+(0.0463)Ile;0.791,0.828,0.822,0.811,0.846,0.818,0.802,0.819,(7.0030)+(-0.0631)Cit+(0.0231)Tyr+(-0.1230)Met+(0.0040)Lys+(0.0169)Leu+(-0.1536)Trp;0.791,0.827,0.797,0.790,0.816,0.795,0.776,0.794,(6.8062)+(-0.0760)Cit+(0.0018)Arg+(0.0071)Pro+(-0.0069)Tyr+(0.0130)Leu+(-0.1601)Trp;0.791,0.825,0.725,0.705,0.749,0.804,0.672,0.733,(-1.1412)+(0.0423)Ser+(0.0011)Gln+(0.0120)Thr+(-0.0817)Cit+(-0.3787)Met+(0.0707)Ile;0.791,0.820,0.774,0.767,0.755,0.835,0.789,0.787,(4.3581)+(0.0077)Gln+(-0.1386)His+(-0.0047)Ala+(0.0081)Pro+(-0.0178)Tyr+(0.0245)Orn;0.791,0.831,0.781,0.778,0.786,0.781,0.775,0.780,(3.8716)+(0.0031)Gln+(0.0093)Thr+(-0.0266)Arg+(0.0020)Orn+(0.0494)Ile+(-0.1757)Trp;0.791,0.830,0.728,0.719,0.751,0.764,0.681,0.729,(-3.2733)+(0.0566)Ser+(-0.0031)Gly+(-0.0812)Cit+(0.0109)Pro+(-0.4127)Met+(0.1159)Phe;0.791,0.826,0.799,0.813,0.796,0.823,0.751,0.796,(6.5040)+(0.0154)Thr+(-0.0065)Ala+(-0.0183)Arg+(0.0102)Pro+(-0.0009)Val+(-0.1439)Trp;0.791,0.825,0.801,0.810,0.786,0.813,0.803,0.803,(4.5305)+(0.0025)Gln+(0.0067)Thr+(-0.0081)Ala+(0.0082)Pro+(0.0107)Leu+(-0.1571)Trp;0.791,0.825,0.762,0.741,0.759,0.828,0.777,0.776,(5.2334)+(-0.1353)His+(0.0218)Thr+(-0.0054)Ala+(-0.0456)Cit+(-0.0088)Lys+(0.0930)Phe;0.791,0.824,0.816,0.816,0.801,0.857,0.815,0.822,(4.4847)+(-0.0343)Asn+(0.0117)Gln+(-0.1324)His+(-0.0009)Ala+(0.0098)Tyr+(-0.0821)Met;0.791,0.820,0.780,0.787,0.711,0.841,0.860,0.800,(4.5003)+(-0.1401)Asn+(0.0046)Gln+(0.0000)Pro+(-0.0247)Tyr+(-0.0532)Val+(0.1620)Ile;0.791,0

.821,0.815,0.819,0.800,0.854,0.807,0.820,(4.7606)+(-0.0461)Asn+(0.0125)Gln+(-0.1344)His+(-0.0013)Ala+(-0.0139)Arg+(-0.0006)Tyr;0.791,0.816,0.727,0.693,0.728,0.805,0.758,0.746,(5.4845)+(0.0008)Gly+(-0.1406)His+(0.0124)Thr+(-0.0243)Val+(0.0279)Orn+(0.0460)Leu;0.791,0.827,0.823,0.813,0.835,0.847,0.806,0.825,(9.0805)+(-0.0665)His+(-0.0011)Ala+(-0.0338)Cit+(0.0310)Tyr+(-0.0381)Met+(-0.1065)Trp;0.791,0.819,0.758,0.747,0.709,0.839,0.833,0.782,(5.3971)+(-0.1228)Asn+(-0.0186)Arg+(-0.0604)Val+(0.0376)Orn+(0.0008)Lys+
(0.1687)Ile;0.791,0.825,0.801,0.790,0.795,0.845,0.807,0.809,(3.6077)+(0.0127)Gln+(-0.1486)His+(-0.0114)Arg+(0.0073)Tyr+(-0.1374)Met+(0.0200)Leu;0.791,0.824,0.750,0.725,0.767,0.811,0.735,0.759,(6.4567)+(0.0064)Asn+(-0.1351)His+(0.0333)Thr+(-0.0038)Tyr+(-0.2069)Met+(0.0259)Leu;0.791,0.822,0.807,0.804,0.800,0.850,0.799,0.813,(4.3934)+(-0.0328)Asn+(0.0123)Gln+(-0.1239)His+(-0.0360)Cit+(0.0080)Pro+(-0.1054)Met;0.791,0.820,0.742,0.736,0.740,0.791,0.729,0.749,(4.4030)+(0.0058)Gly+(-0.1327)His+(-0.0380)Cit+(-0.0041)Arg+(-0.0362)Tyr+(0.1094)Phe;0.791,0.820,0.821,0.824,0.835,0.819,0.786,0.816,(7.8533)+(-0.0469)Asn+(-0.0660)Cit+(0.0057)Arg+(0.0029)Val+(0.0045)Lys+(-0.1441)Trp;0.791,0.819,0.772,0.742,0.771,0.838,0.807,0.789,(6.5792)+(-0.1085)His+(-0.0020)Ala+(-0.0263)Val+(-0.1089)Met+(0.0401)Orn+(0.0553)Leu;0.791,0.819,0.725,0.702,0.740,0.823,0.686,0.738,(4.1480)+(0.0384)Ser+(-0.1337)His+(0.0051)Thr+(-0.0187)Arg+(0.0069)Pro+(-0.0002)Lys;0.791,0.833,0.748,0.731,0.723,0.837,0.779,0.767,(-0.8683)+(0.0473)Ser+(-0.0073)Ala+(-0.0085)Arg+(-0.2634)Met+(-0.0100)Lys+(0.0857)Ile;0.791,0.823,0.814,0.820,0.801,0.858,0.795,0.818,(4.5772)+(-0.0326)Asn+(0.0008)Gly+(0.0126)Gln+(-0.1317)His+(-0.0127)Arg+(-0.0585)Met;0.791,0.822,0.794,0.788,0.785,0.839,0.796,0.802,(3.8698)+(0.0111)Gln+(-0.1392)His+(0.0073)Pro+(0.0013)Tyr+(0.0030)Val+(-0.1384)Met;0.791,0.821,0.770,0.741,0.781,0.842,0.776,0

.785,(4.0471)+(0.0093)Gln+(-0.1456)His+(-0.0674)Cit+(0.0397)Orn+(-0.0099)Lys+(0.0129)Leu;0.791,0.816,0.759,0.761,0.676,0.834,0.874,0.786,(3.7497)+(-0.0019)Gly+(-0.0004)Gln+(-0.0091)Ala+(-0.0273)Tyr+(-0.0508)Val+(0.1720)Ile;0.791,0.828,0.765,0.782,0.767,0.790,0.698,0.759,(-2.2208)+(0.0543)Ser+(-0.0888)Asn+(-0.0130)Arg+(-0.2812)Met+(-0.0071)Leu+(0.1181)Phe;0.791,0.828,0.834,0.852,0.828,0.827,0.804,0.828,(5.5164)+(-0.0803)Asn+(0.0069)Gln+(-0.0106)Arg+(0.0066)Pro+(-0.0035)Val+(-0.1339)Trp;0.791,0.816,0.714,0.701,0.665,0.822,0.769,0.739,(0.4681)+(0.0271)Ser+(-0.0046)Thr+(-0.0396)Arg+(-0.0574)Val+(0.0196)Orn+(0.1616)Ile;0.791,0.828,0.777,0.788,0.777,0.806,0.727,0.775,(3.2786)+(0.0276)Ser+(0.0003)Gln+(-0.0013)Thr+(-0.0089)Tyr+(0.0009)Val+(-0.1490)Trp;0.791,0.829,0.750,0.729,0.759,0.800,0.754,0.760,(5.0061)+(-0.1223)His+(-0.0670)Cit+(-0.0467)Tyr+(0.0495)Orn+(-0.0045)Lys+(0.0944)Phe;0.791,0.824,0.763,0.740,0.756,0.818,0.800,0.778,(4.8582)+(-0.1319)His+(-0.0065)Ala+(-0.0115)Arg+(0.0060)Pro+(0.0254)Orn+(0.0715)Phe;0.791,0.831,0.701,0.689,0.704,0.759,0.682,0.708,(-4.9977)+(0.0478)Ser+(0.0122)Thr+(-0.0225)Tyr+(-0.4547)Met+(0.0537)Ile+(0.0960)Phe;0.791,0.820,0.730,0.713,0.742,0.825,0.680,0.740,(4.4830)+(0.0368)Ser+(-0.1374)His+(0.0095)Thr+(-0.0173)Arg+(-0.0134)Tyr+(0.0058)Val;0.791,0.815,0.757,0.749,0.702,0.839,0.834,0.781,(5.0536)+(-0.1624)Asn+(0.0021)Gly+(0.0157)Thr+(-0.0021)Pro+(-0.0585)Val+(0.1729)Ile;0.791,0.822,0.766,0.742,0.751,0.829,0.813,0.784,(6.0907)+(-0.0178)Asn+(-0.0937)His+(-0.0411)Cit+(-0.0029)Pro+(0.1226)Ile+(-0.0509)Leu;0.791,0.824,0.770,0.763,0.769,0.833,0.744,0.777,(7.0077)+(-0.1096)His+(0.0264)Thr+(-0.0036)Ala+(0.0108)Pro+(-0.0025)Tyr+(-0.1568)Met;0.791,0.818,0.798,0.794,0.785,0.842,0.802,0.806,(4.3214)+(-0.0628)Asn+(0.0009)Gly+(0.0110)Gln+(-0.1420)His+(0.0014)Val+(0.0022)Lys;0.791,0.817,0.795,0.789,0.781,0.836,0.807,0.803,(4.3497)+(-0.0661)Asn+(0.0110)Gln+(-0.1400)His+(0.0045)Pro+(-0.0007)Val

+(0.0022)Lys;0.791,0.826,0.734,0.699,0.752,0.790,0.745,0.747,(4.7341)+(-0.1520)His+(0.0194)Thr+(-0.0166)Arg+(0.0204)Orn+(-0.0074)Lys+(0.0747)Phe;0.791,0.835,0.743,0.732,0.715,0.842,0.757,0.761,(-0.4696)+(0.0412)Ser+(0.0037)Tyr+(-0.3047)Met+(-0.0037)Lys+(0.1701)Ile+(-0.0734)Leu;0.791,0.826,0.788,0.778,0.787,0.799,0.808,0.793,(4.4458)+(-0.1220)His+(-0.0035)Arg+(-0.0074)Val+(-0.1965)Met+(0.0112)Lys+(0.1260)Phe;0.791,0.825,0.790,0.783,0.786,0.843,0.777,0.797,(4.0822)+(0.0111)Gln+(-0.1367)His+(-0.0154)Arg+(0.0067)Pro+(-0.1211)Met+(0.0242)Orn;0.791,0.823,0.745,0.722,0.765,0.813,0.715,0.754,(6.1771)+(0.0027)Gly+(-0.1364)His+(0.0319)Thr+(-0.0004)Tyr+(-0.2090)Met+(0.0267)Leu;0.791,0.827,0.791,0.782,0.785,0.841,0.788,0.799,(3.9591)+(0.0098)Gln+(-0.1424)His+(0.0024)Val+(-0.1207)Met+(0.0226)Orn+(0.0023)Lys;0.791,0.827,0.783,0.775,0.782,0.790,0.803,0.787,(3.9728)+(0.0025)Gln+(0.0073)Thr+(-0.0034)Pro+(-0.0121)Lys+(0.0587)Ile+(-0.1684)Trp;0.791,0.824,0.816,0.822,0.833,0.828,0.758,0.810,(7.5517)+(-0.0578)Asn+(0.0037)Gly+(-0.0672)Cit+(0.0127)Tyr+(0.0061)Lys+(-0.1433)Trp;0.791,0.821,0.759,0.754,0.673,0.835,0.899,0.790,(1.5101)+(-0.0011)Gly+(-0.0017)Thr+(-0.0115)Ala+(-0.0550)Val+(0.1688)Ile+(0.0375)Phe;0.791,0.815,0.751,0.726,0.747,0.815,0.781,0.767,(7.3665)+(-0.0750)Asn+(-0.1203)His+(0.0263)Thr+(-0.0296)Val+(-0.0021)Lys+(0.0585)Leu;0.791,0.823,0.771,0.767,0.775,0.838,0.727,0.777,(7.3732)+(-0.1084)His+(0.0296)Thr+(-0.0036)Ala+(-0.0115)Arg+(0.0107)Pro+(-0.1550)Met;0.791,0.823,0.754,0.728,0.781,0.814,0.726,0.762,(6.7133)+(0.0071)Asn+(-0.1274)His+(0.0347)Thr+(-0.0360)Cit+(-0.2149)Met+(0.0263)Leu;0.791,0.822,0.748,0.724,0.759,0.783,0.760,0.757,(5.3060)+(-0.0523)Asn+(-0.1451)His+(0.0240)Thr+(-0.0149)Arg+(-0.0003)Pro+(0.0794)Phe;0.791,0.821,0.789,0.781,0.783,0.841,0.783,0.797,(4.3709)+(0.0002)Gly+(0.0100)Gln+(-0.1445)His+(-0.0029)Ala+(-0.0195)Arg+(0.0280)Orn;0.791,0.819,0.789,0.791,0.777,0.845,0.768,0.795,(4.5500)+(0.0101)G

ln+(-0.1493)His+(0.0135)Thr+(-0.0025)Ala+(-0.0238)Arg+(0.0023)Lys;0.791,0.828,0.784,0.800,0.793,0.818,0.702,0.778,(3.6712)+(0.0277)Ser+(0.0015)Gln+(0.0047)Thr+(-0.0211)Arg+(-0.0015)Lys+(-0.1491)Trp;0.791,0.825,0.802,0.800,0.789,0.849,0.801,0.810,(4.0072)+(0.0008)Gly+(0.0109)Gln+(-0.1424)His+(-0.0015)Ala+(0.0063)Val+(-0.1026)Met;0.791,0.821,0.789,0.780,0.782,0.841,0.787,0.797,(4.2924)+(0.0101)Gln+(-0.1469)His+(-0.0031)Ala+(-0.0193)Arg+(0.0017)Val+(0.0265)Orn;0.791,0.821,0.731,0.707,0.731,0.799,0.747,0.746,(6.2362)+(-0.1274)His+(0.0208)Thr+(-0.0318)Cit+(-0.0090)Arg+(-0.0369)Tyr+(0.0543)Ile;0.791,0.819,0.792,0.791,0.777,0.834,0.795,0.799,(4.5115)+(-0.0599)Asn+(0.0007)Gly+(0.0109)Gln+(-0.1347)His+(0.0059)Pro+(-0.0134)Tyr;0.791,0.827,0.764,0.777,0.759,0.792,0.720,0.762,(-3.0003)+(0.0520)Ser+(-0.0970)Asn+(0.0025)Gln+(-0.2940)Met+(-0.0067)Lys+(0.1107)Phe;0.791,0.824,0.817,0.827,0.809,0.820,0.802,0.815,(7.3292)+(-0.0238)Asn+(-0.0043)Ala+(0.0125)Pro+(0.0001)Val+(-0.0835)Met+(-0.1226)Trp;0.791,0.827,0.795,0.776,0.799,0.816,0.819,0.802,(4.8249)+(-0.1193)His+(-0.0026)Ala+(-0.0289)Cit+(-0.1756)Met+(0.0078)Lys+(0.1168)Phe;0.791,0.824,0.752,0.734,0.741,0.826,0.769,0.768,(4.1521)+(0.0065)Gly+(-0.1295)His+(-0.0074)Ala+(-0.0523)Cit+(0.0083)Pro+(0.0923)Phe;0.791,0.827,0.748,0.720,0.746,0.807,0.787,0.765,(4.7689)+(-0.1331)His+(-0.0137)Arg+(-0.0250)Val+(0.0335)Orn+(0.0331)Leu+(0.0728)Phe;0.791,0.827,0.817,0.816,0.823,0.836,0.792,0.817,(9.1295)+(-0.0113)Asn+(-0.0633)His+(-0.0366)Cit+(0.0079)Arg+(-0.0028)Met+(-0.0998)Trp;0.791,0.826,0.750,0.723,0.774,0.816,0.719,0.758,(6.5881)+(-0.1348)His+(0.0322)Thr+(-0.0110)Arg+(-0.1933)Met+(0.0227)Orn+(0.0206)Leu;0.791,0.825,0.794,0.782,0.803,0.853,0.768,0.802,(4.3928)+(0.0105)Gln+(-0.1285)His+(-0.0589)Cit+(-0.0078)Arg+(-0.1016)Met+(0.0423)Orn;0.791,0.820,0.788,0.784,0.781,0.837,0.778,0.795,(4.5157)+(0.0099)Gln+(-0.1413)His+(-0.0024)Ala+(-0.0193)Arg+(-0.0102)Tyr+(0.0299)Orn;0.791,0.81

7,0.776,0.764,0.775,0.835,0.770,0.786,(4.2923)+(0.0094)Gln+(-0.1504)His+(0.0101)Thr+(-0.0405)Cit+(0.0047)Val+(-0.0060)Lys;0.791,0.828,0.723,0.694,0.734,0.811,0.713,0.738,(-0.5043)+(0.0520)Ser+(-0.1435)Asn+(-0.0862)Cit+(-0.0235)Lys+(0.0414)Ile+(0.0630)Phe;0.791,0.827,0.808,0.819,0.808,0.801,0.784,0.803,(4.3600)+(0.0050)Gln+(0.0068)Pro+(-0.1806)Met+(0.0131)Orn+(0.0091)Leu+(-0.1413)Trp;0.791,0.827,0.777,0.764,0.777,0.790,0.804,0.784,(4.3889)+(0.0112)Asn+(-0.1293)His+(-0.0192)Tyr+(-0.1836)Met+(0.0082)Lys+(0.1211)Phe;0.791,0.825,0.822,0.829,0.836,0.823,0.774,0.815,(5.2422)+(0.0058)Gln+(-0.0767)Cit+(-0.0040)Arg+(-0.0017)Tyr+(0.0042)Val+(-0.1607)Trp;0.791,0.824,0.780,0.753,0.765,0.835,0.844,0.799,(6.2851)+(-0.1103)His+(-0.0051)Ala+(0.0021)Arg+(-0.1354)Met+(0.0042)Lys+(0.0677)Ile;0.791,0.824,0.748,0.742,0.668,0.851,0.853,0.779,(-0.1800)+(0.0359)Ser+(-0.0013)Gln+(-0.0202)Thr+(-0.0111)Ala+(0.1845)Ile+(-0.0877)Leu;0.791,0.818,0.744,0.763,0.697,0.789,0.762,0.753,(0.2223)+(0.0026)Gln+(-0.0932)Cit+(-0.0827)Tyr+(0.1750)Ile+(-0.1031)Leu+(0.0992)Phe;0.791,0.827,0.771,0.755,0.772,0.853,0.756,0.784,(4.7200)+(0.0479)Ser+(-0.0319)Asn+(-0.0037)Gly+(-0.1098)His+(0.0137)Tyr+(-0.0984)Met;0.791,0.820,0.806,0.808,0.795,0.844,0.798,0.811,(4.4994)+(-0.0446)Asn+(0.0127)Gln+(-0.1406)His+(-0.0147)Arg+(-0.0066)Tyr+(0.0028)Val;0.791,0.819,0.723,0.684,0.735,0.811,0.738,0.742,(5.3040)+(0.0046)Gly+(-0.1300)His+(0.0140)Thr+(-0.0488)Cit+(-0.0092)Lys+(0.0557)Ile;0.791,0.827,0.778,0.788,0.791,0.813,0.696,0.772,(3.9511)+(0.0296)Ser+(0.0050)Thr+(-0.0197)Arg+(0.0010)Val+(-0.0016)Lys+(-0.1486)Trp;0.791,0.823,0.813,0.824,0.801,0.821,0.805,0.813,(6.7922)+(-0.0608)Asn+(0.0010)Gly+(-0.0057)Ala+(0.0107)Pro+(0.0067)Lys+(-0.1338)Trp;0.791,0.825,0.775,0.765,0.773,0.785,0.798,0.780,(4.6624)+(-0.1110)His+(0.0084)Pro+(-0.0190)Tyr+(-0.0062)Val+(-0.1745)Met+(0.1266)Phe;0.791,0.820,0.765,0.775,0.731,0.825,0.769,0.775,(5.0238)+(-0.0765)Asn+(0.0107)Thr+(-0.07

28)Cit+(-0.0463)Tyr+(0.1543)Ile+(-0.0779)Leu;0.791,0.816,0.761,0.754,0.705,0.839,0.843,0.785,(5.2271)+(-0.1538)Asn+(0.0158)Thr+(-0.0025)Pro+(-0.0561)Val+(0.1776)Ile+(-0.0077)Leu;0.791,0.828,0.815,0.826,0.813,0.801,0.802,0.811,(4.4769)+(-0.0008)Gly+(0.0058)Gln+(0.0075)Pro+(-0.1766)Met+(0.0109)Leu+(-0.1423)Trp;0.791,0.827,0.796,0.789,0.821,0.803,0.757,0.792,(6.5736)+(0.0032)Gly+(-0.0787)Cit+(0.0045)Tyr+(-0.0027)Lys+(0.0183)Leu+(-0.1611)Trp;0.791,0.825,0.745,0.751,0.681,0.794,0.827,0.763,(2.4632)+(-0.0260)Arg+(-0.0535)Tyr+(-0.0552)Val+(-0.0055)Lys+(0.1613)Ile+(0.0731)Phe;0.791,0.825,0.769,0.753,0.771,0.785,0.795,0.776,(4.3709)+(0.0181)Asn+(-0.1213)His+(0.0073)Pro+(-0.0204)Tyr+(-0.1902)Met+(0.1196)Phe;0.791,0.824,0.758,0.757,0.742,0.805,0.762,0.766,(4.6151)+(0.0048)Gly+(-0.1335)His+(-0.0029)Ala+(-0.0089)Arg+(-0.0298)Tyr+(0.1061)Phe;0.791,0.822,0.748,0.719,0.749,0.812,0.780,0.765,(5.1592)+(0.0233)Asn+(0.0053)Gly+(-0.1238)His+(-0.1918)Met+(0.0037)Lys+(0.0681)Ile;0.791,0.822,0.770,0.762,0.750,0.794,0.816,0.780,(5.6799)+(-0.0428)Asn+(-0.1166)His+(-0.0311)Tyr+(-0.0206)Val+(0.0317)Leu+(0.0988)Phe;0.791,0.818,0.746,0.733,0.748

,0.849,0.706,0.759,(4.7822)+(0.0343)Ser+(-0.1224)His+(0.0085)Thr+(-0.0025)Ala+(-0.0353)Cit+(-0.0014)Lys;0.791,0.829,0.786,0.786,0.776,0.785,0.807,0.788,(4.1170)+(0.0033)Gln+(-0.0010)Pro+(-0.0191)Tyr+(-0.0085)Lys+(0.0583)Ile+(-0.1595)Trp;0.791,0.828,0.805,0.803,0.780,0.867,0.819,0.817,(2.0861)+(-0.0402)Asn+(0.0077)Gln+(-0.0798)Cit+(-0.2183)Met+(0.1702)Ile+(-0.0803)Leu;0.791,0.823,0.768,0.751,0.764,0.820,0.782,0.779,(4.0108)+(0.0086)Gln+(-0.1532)His+(-0.0195)Tyr+(0.0221)Orn+(-0.0046)Lys+(0.0141)Leu;0.791,0.822,0.825,0.830,0.836,0.825,0.789,0.820,(7.9790)+(-0.0381)Asn+(-0.0026)Ala+(-0.0622)Cit+(0.0043)Val+(0.0061)Lys+(-0.1413)Trp;0.791,0.821,0.761,0.745,0.763,0.834,0.745,0.772,(5.0045)+(0.0470)Ser+(-0.0523)Asn+(-0.0038)Gly+(-0.1167)His+(-0.0113)Arg+(0.

0041)Lys;0.791,0.821,0.759,0.743,0.756,0.840,0.748,0.772,(4.7760)+(0.0437)Ser+(-0.0044)Gly+(-0.1231)His+(-0.0016)Ala+(-0.0137)Arg+(0.0024)Lys;0.791,0.816,0.774,0.755,0.774,0.832,0.785,0.787,(3.7624)+(0.0017)Gly+(0.0102)Gln+(-0.1518)His+(-0.0410)Cit+(-0.0061)Lys+(0.0179)Leu;0.791,0.831,0.825,0.837,0.822,0.816,0.803,0.820,(5.0584)+(-0.0947)Asn+(0.0055)Gln+(0.0037)Pro+(0.0145)Orn+(0.0014)Lys+(-0.1431)Trp;0.791,0.831,0.726,0.721,0.750,0.769,0.656,0.724,(-3.7374)+(0.0514)Ser+(0.0012)Gln+(-0.0880)Cit+(0.0109)Pro+(-0.4221)Met+(0.1189)Phe;0.791,0.831,0.804,0.801,0.804,0.826,0.795,0.806,(6.3775)+(-0.0055)Arg+(-0.0308)Val+(-0.1396)Met+(0.0333)Orn+(0.0606)Leu+(-0.1273)Trp;0.791,0.826,0.807,0.816,0.817,0.805,0.765,0.801,(6.8592)+(-0.0842)Asn+(-0.0012)Gly+(0.0155)Thr+(0.0170)Orn+(-0.0000)Lys+(-0.1436)Trp;0.791,0.820,0.793,0.791,0.778,0.834,0.799,0.800,(4.5004)+(-0.0578)Asn+(0.0111)Gln+(-0.1360)His+(0.0057)Pro+(-0.0146)Tyr+(0.0009)Val;0.791,0.828,0.788,0.784,0.785,0.797,0.795,0.790,(5.9643)+(-0.0023)Gly+(0.0158)Thr+(-0.0263)Val+(-0.0077)Lys+(0.0527)Leu+(-0.1560)Trp;0.791,0.820,0.729,0.709,0.725,0.793,0.747,0.744,(6.2558)+(-0.1340)His+(0.0215)Thr+(-0.0148)Arg+(-0.0003)Pro+(-0.0366)Tyr+(0.0533)Ile;0.791,0.828,0.797,0.796,0.782,0.819,0.818,0.804,(5.8482)+(-0.0017)Gly+(0.0148)Thr+(-0.0054)Ala+(-0.0249)Val+(0.0536)Leu+(-0.1549)Trp;0.791,0.825,0.800,0.786,0.798,0.846,0.809,0.810,(3.6634)+(0.0122)Gln+(-0.1416)His+(-0.0370)Cit+(-0.1404)Met+(0.0006)Lys+(0.0221)Leu;0.791,0.825,0.827,0.824,0.849,0.825,0.792,0.822,(7.1606)+(-0.0606)Cit+(0.0238)Tyr+(0.0031)Val+(-0.1162)Met+(0.0067)Lys+(-0.1480)Trp;0.791,0.822,0.716,0.682,0.721,0.784,0.743,0.733,(3.4643)+(0.0035)Gly+(-0.1604)His+(0.0101)Thr+(-0.0010)Pro+(0.0157)Orn+(0.0713)Phe;0.791,0.819,0.728,0.703,0.724,0.803,0.748,0.744,(5.9775)+(-0.1364)His+(0.0161)Thr+(-0.0275)Tyr+(-0.0226)Val+(0.0320)Orn+(0.0464)Leu;0.791,0.824,0.755,0.735,0.764,0.836,0.732,0.767,(4.2618)+(0.0489)Ser+(-

0.0036)Gly+(-0.1225)His+(-0.0074)Arg+(0.0080)Val+(-0.1086)Met;0.791,0.824,0.763,0.740,0.796,0.836,0.706,0.769,(7.0979)+(-0.0151)Asn+(-0.1098)His+(0.0237)Thr+(-0.0656)Cit+(-0.1387)Met+(0.0468)Orn;0.791,0.827,0.790,0.795,0.780,0.787,0.804,0.791,(5.8688)+(-0.0008)Gly+(0.0063)Pro+(-0.0128)Tyr+(-0.0236)Val+(0.0451)Leu+(-0.1468)Trp;0.791,0.825,0.792,0.806,0.778,0.812,0.766,0.791,(5.6546)+(0.0078)Thr+(-0.0069)Ala+(0.0093)Pro+(-0.0137)Tyr+(0.0167)Orn+(-0.1417)Trp;0.791,0.825,0.802,0.821,0.782,0.820,0.782,0.801,(4.9655)+(0.0028)Gln+(0.0078)Thr+(-0.0068)Ala+(0.0098)Pro+(-0.0122)Tyr+(-0.1454)Trp;0.791,0.823,0.821,0.831,0.831,0.839,0.759,0.815,(7.4799)+(0.0026)Gly+(-0.0014)Ala+(-0.0649)Cit+(0.0081)Arg+(-0.0528)Met+(-0.1307)Trp;0.791,0.832,0.782,0.777,0.785,0.796,0.776,0.783,(4.1059)+(0.0035)Gln+(0.0116)Thr+(-0.0230)Arg+(-0.0080)Lys+(0.0546)Ile+(-0.1704)Trp;0.791,0.824,0.790,0.785,0.744,0.855,0.851,0.809,(3.7930)+(-0.0042)Asn+(-0.0093)Ala+(0.0072)Pro+(-0.1984)Met+(0.1692)Ile+(-0.0773)Leu;0.791,0.831,0.786,0.765,0.784,0.810,0.830,0.797,(4.8158)+(-0.1105)His+(-0.0039)Tyr+(-0.0245)Val+(-0.1956)Met+(0.0430)Leu+(0.1166)Phe;0.791,0.826,0.827,0.821,0.849,0.827,0.793,0.823,(7.2736)+(-0.0681)Cit+(0.0077)Arg+(0.0223)Tyr+(0.0049)Val+(-0.1013)Met+(-0.1468)Trp;0.791,0.825,0.755,0.751,0.735,0.802,0.773,0.765,(4.3270)+(0.0042)Gly+(-0.1368)His+(-0.0031)Ala+(-0.0328)Tyr+(0.0018)Lys+(0.1025)Phe;0.791,0.820,0.746,0.727,0.755,0.801,0.737,0.755,(4.4207)+(-0.0500)Asn+(0.0078)Gly+(-0.1305)His+(-0.0443)Cit+(-0.0003)Leu+(0.0946)Phe;0.791,0.817,0.729,0.705,0.747,0.828,0.683,0.740,(4.2552)+(0.0380)Ser+(-0.1370)His+(0.0075)Thr+(-0.0256)Cit+(-0.0131)Arg+(0.0053)Val;0.791,0.827,0.814,0.809,0.831,0.812,0.793,0.811,(7.0490)+(-0.0680)Cit+(0.0092)Arg+(-0.0937)Met+(0.0016)Lys+(0.0193)Leu+(-0.1494)Trp;0.791,0.826,0.766,0.748,0.762,0.803,0.797,0.777,(4.9700)+(-0.0519)Asn+(-0.1232)His+(-0.0110)Val+(0.0307)Orn+(0.0016)Lys+(0.0857)Phe;0.791,0.824,0.81

9,0.815,0.832,0.822,0.801,0.817,(7.3235)+(-0.0030)Ala+(-0.0624)Cit+(-0.0661)Met+(0.0036)Lys+(0.0206)Leu+(-0.1464)Trp;0.791,0.820,0.735,0.700,0.750,0.796,0.753,0.750,(5.0233)+(-0.1469)His+(0.0206)Thr+(-0.0411)Cit+(-0.0113)Lys+(0.0041)Leu+(0.0815)Phe;0.791,0.820,0.742,0.715,0.751,0.800,0.755,0.755,(4.9936)+(-0.1425)His+(0.0202)Thr+(-0.0385)Cit+(-0.0048)Val+(-0.0087)Lys+(0.0925)Phe;0.791,0.819,0.785,0.790,0.722,0.851,0.852,0.804,(4.0227)+(-0.1287)Asn+(0.0058)Gln+(-0.0191)Arg+(-0.0491)Val+(0.1796)Ile+(-0.0217)Leu;0.791,0.817,0.725,0.702,0.740,0.827,0.682,0.738,(4.2148)+(0.0383)Ser+(-0.1306)His+(0.0055)Thr+(-0.0215)Cit+(-0.0151)Arg+(0.0068)Pro;0.791,0.826,0.751,0.731,0.766,0.837,0.709,0.761,(4.0844)+(0.0438)Ser+(-0.1206)His+(-0.0311)Cit+(0.0092)Val+(-0.1299)Met+(0.0023)Lys;0.791,0.821,0.745,0.727,0.749,0.831,0.725,0.758,(4.4835)+(0.0419)Ser+(-0.0555)Asn+(-0.1249)His+(-0.0064)Tyr+(0.0049)Val+(0.0010)Lys;0.791,0.819,0.725,0.696,0.680,0.832,0.817,0.756,(1.5484)+(0.0377)Ser+(-0.0063)Gly+(-0.0564)Cit+(-0.0472)Val+(-0.0225)Lys+(0.1599)Ile;0.791,0.816,0.777,0.763,0.766,0.831,0.797,0.789,(3.9545)+(0.0106)Gln+(-0.1512)His+(-0.0186)Arg+(0.0037)Pro+(-0.0164)Val+(0.0360)Leu;0.791,0.827,0.769,0.776,0.773,0.806,0.714,0.767,(-2.8831)+(0.0449)Ser+(0.0020)Gln+(-0.0044)Ala+(-0.0862)Cit+(-0.3348)Met+(0.1208)Phe;0.791,0.827,0.747,0.739,0.680,0.849,0.836,0.776,(0.2626)+(0.0288)Ser+(-0.0116)Ala+(0.0044)Orn+(-0.0174)Lys+(0.1677)Ile+(-0.0752)Leu;0.791,0.824,0.807,0.822,0.789,0.823,0.794,0.807,(4.8704)+(0.0027)Gln+(0.0067)Thr+(-0.0072)Ala+(0.0094)Pro+(-0.0008)Val+(-0.1478)Trp;0.791,0.822,0.817,0.830,0.816,0.825,0.776,0.812,(7.4112)+(-0.0776)Asn+(-0.0010)Gly+(0.0195)Thr+(-0.0034)Ala+(0.0028)Lys+(-0.1404)Trp;0.791,0.821,0.784,0.774,0.774,0.842,0.790,0.795,(4.3137)+(0.0097)Gln+(-0.1429)His+(-0.0048)Ala+(-0.0196)Arg+(0.0069)Pro+(0.0251)Orn;0.791,0.817,0.724,0.697,0.742,0.819,0.691,0.737,(3.8960)+(0.0410)Ser+(-0.1333)His+(-0.0230)Cit

+(-0.0128)Arg+(0.0065)Pro+(0.0036)Val;0.791,0.824,0.788,0.782,0.795,0.791,0.790,0.789,(5.6245)+(-0.0507)Asn+(0.0014)Gly+(-0.0113)Arg+(0.0117)Orn+(0.0484)Ile+(-0.1535)Trp;0.791,0.819,0.751,0.753,0.667,0.837,0.858,0.779,(2.8884)+(0.0001)Thr+(-0.0095)Ala+(-0.0314)Tyr+(-0.0515)Val+(0.0194)Orn+(0.1674)Ile;0.791,0.830,0.753,0.746,0.680,0.854,0.852,0.783,(-0.0194)+(0.0359)Ser+(-0.0160)Thr+(-0.0108)Ala+(-0.0109)Lys+(0.1797)Ile+(-0.0807)Leu;0.791,0.827,0.795,0.789,0.789,0.789,0.825,0.798,(3.9937)+(-0.0011)Gly+(0.0033)Gln+(-0.0024)Pro+(-0.0100)Lys+(0.0574)Ile+(-0.1658)Trp;0.791,0.826,0.763,0.749,0.766,0.847,0.731,0.773,(4.3528)+(0.0429)Ser+(-0.0374)Asn+(-0.1139)His+(0.0154)Tyr+(-0.1252)Met+(0.0066)Lys;0.791,0.826,0.721,0.701,0.749,0.803,0.655,0.727,(-0.7045)+(0.0439)Ser+(0.0141)Thr+(-0.0755)Cit+(-0.0071)Arg+(-0.3701)Met+(0.0711)Ile;0.791,0.825,0.810,0.827,0.815,0.812,0.753,0.802,(7.6124)+(-0.0785)Asn+(-0.0014)Gly+(0.0205)Thr+(-0.0076)Tyr+(-0.0023)Val+(-0.1370)Trp;0.791,0.825,0.799,0.796,0.788,0.821,0.816,0.805,(5.7595)+(-0.0050)Ala+(-0.0270)Val+(0.0277)Orn+(-0.0036)Lys+(0.0550)Leu+(-0.1413)Trp;0.791,0.824,0.766,0.755,0.742,0.806,0.817,0.780,(5.1399)+(-0.1270)His+(-0.0028)Ala+(-0.0300)Tyr+(-0.0157)Val+(0.0276)Leu+(0.0946)Phe;0.791,0.824,0.806,0.806,0.793,0.855,0.801,0.814,(4.1892)+(0.0008)Gly+(0.0108)Gln+(-0.1368)His+(-0.0009)Ala+(0.0137)Tyr+(-0.1128)Met;0.791,0.822,0.764,0.752,0.759,0.845,0.749,0.776,(4.4457)+(0.0445)Ser+(-0.0041)Gly+(-0.1146)His+(0.0000)Ala+(-0.1161)Met+(0.0053)Lys;0.791,0.821,0.803,0.805,0.787,0.848,0.799,0.810,(4.3695)+(0.0117)Gln+(-0.1296)His+(-0.0029)Ala+(-0.0124)Arg+(0.0102)Pro+(-0.1055)Met;0.791,0.821,0.768,0.753,0.767,0.847,0.753,0.780,(5.2770)+(0.0459)Ser+(-0.0527)Asn+(-0.0034)Gly+(-0.1063)His+(-0.0015)Ala+(-0.0249)Cit;0.791,0.819,0.801,0.797,0.794,0.844,0.792,0.807,(4.3366)+(-0.0617)Asn+(0.0021)Gly+(0.0118)Gln+(-0.1356)His+(-0.0412)Cit+(0.0035)Val;0.791,0.827,0.805,0.815,0.823,0.808

,0.740,0.796,(7.1726)+(-0.0721)Asn+(-0.0012)Gly+(0.0187)Thr+(-0.0157)Arg+(0.0204)Orn+(-0.1434)Trp;0.791,0.826,0.778,0.791,0.789,0.815,0.694,0.772,(4.1121)+(0.0290)Ser+(0.0058)Thr+(-0.0197)Arg+(-0.0035)Tyr+(-0.0009)Lys+(-0.1465)Trp;0.791,0.826,0.793,0.778,0.801,0.854,0.772,0.801,(4.3948)+(0.0098)Gln+(-0.1276)His+(-0.0651)Cit+(-0.0013)Tyr+(-0.1074)Met+(0.0433)Orn;0.791,0.824,0.815,0.831,0.815,0.831,0.764,0.810,(7.4691)+(-0.0754)Asn+(0.0202)Thr+(-0.0031)Ala+(-0.0013)Tyr+(-0.0006)Val+(-0.1368)Trp;0.791,0.818,0.780,0.767,0.769,0.835,0.799,0.792,(3.9560)+(0.0005)Gly+(0.0107)Gln+(-0.1520)His+(-0.0176)Arg+(-0.0151)Val+(0.0363)Leu;0.791,0.829,0.765,0.771,0.776,0.797,0.702,0.762,(3.4909)+(0.0303)Ser+(0.0045)Thr+(-0.0205)Arg+(-0.0089)Tyr+(0.0125)Leu+(-0.1564)Trp;0.791,0.825,0.722,0.680,0.735,0.788,0.763,0.741,(4.2770)+(-0.1559)His+(0.0163)Thr+(-0.0185)Arg+(0.0129)Orn+(0.0269)Ile+(0.0526)Phe;0.791,0.823,0.785,0.782,0.739,0.854,0.842,0.804,(3.4285)+(0.0018)Gly+(-0.0094)Ala+(0.0072)Pro+(-0.2088)Met+(0.1703)Ile+(-0.0771)Leu;0.791,0.818,0.755,0.730,0.755,0.815,0.779,0.770,(3.5556)+(0.0077)Gln+(-0.1652)His+(0.0053)Thr+(0.0004)Pro+(0.0140)Orn+(0.0103)Leu;0.791,0.824,0.787,0.786,0.776,0.833,0.784,0.795,(3.7586)+(0.0011)Gly+(0.0103)Gln+(-0.1376)His+(0.0085)Pro+(-0.1530)Met+(0.0060)Lys;0.791,0.821,0.736,0.728,0.694,0.820,0.784,0.756,(3.2348)+(-0.0926)Cit+(-0.0019)Pro+(-0.0494)Tyr+(-0.0488)Val+(0.0452)Orn+(0.1485)Ile;0.791,0.825,0.753,0.722,0.765,0.822,0.759,0.767,(5.6046)+(0.0075)Gly+(-0.1092)His+(-0.0443)Cit+(0.0063)Tyr+(-0.1645)Met+(0.0689)Ile;0.791,0.823,0.756,0.747,0.779,0.832,0.681,0.760,(6.8535)+(0.0032)Gly+(-0.1081)His+(0.0271)Thr+(-0.0386)Cit+(0.0087)Pro+(-0.1792)Met;0.791,0.823,0.799,0.809,0.806,0.813,0.749,0.794,(6.5653)+(-0.0086)Arg+(
0.0088)Pro+(-0.0037)Val+(-0.1266)Met+(0.0275)Orn+(-0.1243)Trp;0.791,0.831,0.824,0.835,0.822,0.815,0.805,0.819,(5.0051)+(-0.0924)Asn+(0.005

5)Gln+(0.0034)Pro+(0.0142)Orn+(0.0028)Leu+(-0.1442)Trp;0.791,0.825,0.768,0.751,0.769,0.853,0.753,0.781,(4.4398)+(0.0460)Ser+(-0.0038)Gly+(-0.1146)His+(-0.0003)Ala+(0.0164)Tyr+(-0.1230)Met;0.791,0.824,0.762,0.775,0.769,0.792,0.694,0.757,(-2.8818)+(0.0444)Ser+(0.0019)Gln+(-0.0756)Cit+(-0.0093)Val+(-0.3546)Met+(0.1336)Phe;0.791,0.818,0.780,0.775,0.778,0.829,0.764,0.786,(4.3981)+(-0.0004)Gly+(0.0101)Gln+(-0.1444)His+(-0.0199)Arg+(-0.0152)Tyr+(0.0287)Orn;0.791,0.828,0.799,0.807,0.807,0.797,0.760,0.793,(6.4830)+(-0.0871)Asn+(0.0141)Thr+(0.0028)Pro+(0.0134)Orn+(0.0036)Leu+(-0.1466)Trp;0.791,0.826,0.786,0.780,0.741,0.854,0.843,0.805,(3.5180)+(-0.0094)Ala+(0.0067)Pro+(-0.2076)Met+(0.0100)Orn+(0.1681)Ile+(-0.0781)Leu;0.791,0.826,0.820,0.811,0.834,0.842,0.799,0.822,(9.0577)+(-0.0029)Asn+(-0.0668)His+(-0.0331)Cit+(0.0293)Tyr+(-0.0407)Met+(-0.1069)Trp;0.791,0.824,0.812,0.809,0.815,0.813,0.813,0.813,(7.8375)+(-0.0510)Asn+(-0.0561)Cit+(-0.0196)Val+(0.0037)Lys+(0.0459)Leu+(-0.1434)Trp;0.791,0.816,0.761,0.766,0.698,0.827,0.833,0.781,(5.3384)+(-0.1116)Asn+(0.0021)Gly+(-0.0232)Tyr+(-0.0478)Val+(0.1783)Ile+(-0.0182)Leu;0.791,0.815,0.745,0.722,0.742,0.814,0.763,0.760,(7.0314)+(-0.0808)Asn+(0.0022)Gly+(-0.1215)His+(0.0247)Thr+(-0.0293)Val+(0.0580)Leu;0.791,0.826,0.753,0.729,0.771,0.843,0.714,0.764,(3.9677)+(0.0453)Ser+(-0.1212)His+(-0.0318)Cit+(0.0145)Tyr+(0.0089)Val+(-0.1471)Met;0.791,0.822,0.764,0.750,0.763,0.840,0.746,0.775,(5.1904)+(0.0475)Ser+(-0.0467)Asn+(-0.0043)Gly+(-0.1129)His+(-0.0093)Arg+(-0.0018)Tyr;0.791,0.822,0.805,0.806,0.794,0.847,0.794,0.810,(4.3228)+(-0.0245)Asn+(0.0126)Gln+(-0.1316)His+(-0.0125)Arg+(0.0078)Pro+(-0.0992)Met;0.791,0.822,0.748,0.717,0.749,0.816,0.779,0.765,(5.1521)+(0.0270)Asn+(0.0054)Gly+(-0.1220)His+(0.0059)Tyr+(-0.1954)Met+(0.0697)Ile;0.791,0.820,0.743,0.720,0.748,0.840,0.727,0.758,(4.1839)+(0.0396)Ser+(-0.1293)His+(-0.0038)Ala+(-0.0376)Cit+(-0.0039)Tyr+(0.0094)Val;0.791,0.820,0.759,0.

749,0.759,0.841,0.725,0.769,(4.9957)+(0.0415)Ser+(-0.0542)Asn+(-0.116
0)His+(-0.0014)Ala+(-0.0118)Arg+(0.0060)Lys;0.791,0.819,0.743,0.730,0
.737,0.841,0.720,0.757,(4.5062)+(0.0335)Ser+(-0.1291)His+(0.0059)Thr+
(-0.0020)Ala+(-0.0033)Tyr+(-0.0009)Lys;0.791,0.816,0.747,0.737,0.668,
0.837,0.876,0.780,(3.1885)+(-0.0012)Gly+(-0.0022)Gln+(-0.0105)Ala+(-0
.0547)Val+(0.0194)Orn+(0.1718)Ile;0.791,0.822,0.753,0.742,0.768,0.820
,0.703,0.758,(6.5153)+(0.0021)Gly+(-0.1191)His+(0.0262)Thr+(0.0077)Pr
o+(0.0019)Val+(-0.1782)Met;0.791,0.820,0.721,0.734,0.649,0.771,0.799,
0.738,(1.6740)+(-0.0019)Gln+(-0.0675)Tyr+(-0.0385)Val+(0.1868)Ile+(-0
.0503)Leu+(0.0760)Phe;0.791,0.819,0.755,0.754,0.668,0.833,0.885,0.785
,(1.0647)+(-0.0119)Ala+(0.0024)Pro+(-0.0425)Val+(0.1912)Ile+(-0.0391)
Leu+(0.0433)Phe;0.791,0.826,0.759,0.772,0.755,0.779,0.713,0.755,(-3.2
400)+(0.0521)Ser+(-0.1039)Asn+(0.0020)Gln+(-0.3108)Met+(0.0046)Orn+(0
.1056)Phe;0.791,0.823,0.768,0.795,0.717,0.788,0.788,0.772,(2.6860)+(-
0.0644)Asn+(-0.0204)Arg+(-0.0675)Tyr+(0.1658)Ile+(-0.1006)Leu+(0.0987
)Phe;0.791,0.823,0.812,0.815,0.806,0.817,0.812,0.812,(6.8569)+(-0.018
9)Asn+(-0.0050)Ala+(0.0113)Pro+(-0.1006)Met+(0.0138)Leu+(-0.1315)Trp;
0.791,0.825,0.761,0.749,0.770,0.828,0.724,0.768,(6.6031)+(0.0011)Gly+
(-0.1213)His+(0.0226)Thr+(-0.0015)Ala+(-0.1391)Met+(0.0305)Orn;0.791,
0.814,0.774,0.775,0.710,0.847,0.854,0.797,(4.0107)+(-0.1560)Asn+(0.00
21)Gly+(0.0041)Gln+(-0.0017)Pro+(-0.0556)Val+(0.1653)Ile;0.791,0.827,
0.800,0.803,0.748,0.867,0.857,0.818,(2.0848)+(0.0043)Gln+(-0.0078)Ala
+(-0.2218)Met+(-0.0011)Lys+(0.1801)Ile+(-0.0805)Leu;0.791,0.821,0.740
,0.732,0.728,0.780,0.755,0.749,(4.2241)+(0.0041)Gly+(-0.1409)His+(-0.
0388)Tyr+(0.0008)Lys+(0.0013)Leu+(0.0997)Phe;0.791,0.820,0.745,0.724,
0.749,0.824,0.735,0.758,(4.4572)+(0.0458)Ser+(-0.0045)Gly+(-0.1310)Hi
s+(-0.0127)Arg+(-0.0114)Tyr+(0.0059)Val;0.791,0.827,0.799,0.804,0.744
,0.864,0.853,0.816,(2.1273)+(0.0042)Gln+(-0.0078)Ala+(-0.0049)Tyr+(-0

.2161)Met+(0.1803)Ile+(-0.0809)Leu;0.791,0.825,0.760,0.739,0.776,0.82
2,0.740,0.769,(6.9367)+(-0.1303)His+(0.0352)Thr+(-0.0023)Ala+(-0.0082
)Arg+(-0.1884)Met+(0.0260)Leu;0.791,0.824,0.763,0.751,0.783,0.828,0.7
08,0.768,(7.1979)+(-0.1067)His+(0.0288)Thr+(-0.0338)Cit+(0.0086)Pro+(
-0.0051)Tyr+(-0.1712)Met;0.791,0.823,0.761,0.750,0.762,0.847,0.727,0.
772,(5.0944)+(0.0420)Ser+(-0.0486)Asn+(-0.1138)His+(-0.0012)Ala+(-0.0
095)Arg+(0.0046)Tyr;0.791,0.822,0.762,0.761,0.676,0.833,0.891,0.790,(
1.2292)+(-0.0042)Thr+(-0.0111)Ala+(-0.0414)Val+(0.1951)Ile+(-0.0417)L
eu+(0.0467)Phe;0.791,0.821,0.739,0.729,0.695,0.819,0.796,0.760,(3.577
1)+(-0.0020)Gly+(-0.0898)Cit+(-0.0520)Tyr+(-0.0492)Val+(0.0459)Orn+(0
.1474)Ile;0.791,0.820,0.762,0.737,0.748,0.824,0.813,0.781,(5.9681)+(-
0.0214)Asn+(-0.0944)His+(-0.0408)Cit+(0.0012)Lys+(0.1172)Ile+(-0.0505
)Leu;0.791,0.820,0.822,0.827,0.835,0.828,0.779,0.817,(7.4560)+(-0.002
2)Ala+(-0.0609)Cit+(0.0053)Val+(-0.0633)Met+(0.0062)Lys+(-0.1416)Trp;
0.791,0.819,0.779,0.775,0.776,0.834,0.757,0.785,(4.2610)+(-0.0002)Gly
+(0.0104)Gln+(-0.1569)His+(0.0129)Thr+(-0.0237)Arg+(0.0019)Val;0.791,
0.818,0.757,0.742,0.751,0.813,0.774,0.770,(3.8766)+(0.0081)Gln+(-0.15
34)His+(0.0031)Pro+(-0.0255)Tyr+(0.0202)Orn+(0.0110)Leu;0.791,0.826,0
.777,0.789,0.789,0.812,0.693,0.771,(4.0064)+(0.0291)Ser+(0.0052)Thr+(
-0.0201)Arg+(-0.0045)Tyr+(0.0009)Val+(-0.1482)Trp;0.791,0.818,0.800,0
.799,0.785,0.838,0.807,0.807,(4.4634)+(-0.0591)Asn+(0.0112)Gln+(-0.13
98)His+(-0.0098)Tyr+(0.0020)Val+(0.0028)Lys;0.791,0.826,0.798,0.809,0
.786,0.821,0.778,0.798,(5.5903)+(0.0066)Thr+(-0.0071)Ala+(0.0091)Pro+
(-0.0027)Val+(0.0173)Orn+(-0.1422)Trp;0.790,0.824,0.788,0.767,0.789,0
.812,0.826,0.798,(4.7640)+(-0.1222)His+(-0.0023)Ala+(0.0033)Arg+(-0.1
730)Met+(0.0064)Leu+(0.1104)Phe;0.790,0.821,0.751,0.716,0.746,0.799,0
.822,0.771,(4.8580)+(-0.0178)Asn+(-0.1362)His+(-0.0022)Pro+(-0.0053)L
ys+(0.0376)Ile+(0.0574)Phe;0.790,0.825,0.759,0.788,0.745,0.779,0.693,

0.751,(-0.9214)+(0.0448)Ser+(-0.1807)Asn+(0.0047)Gln+(-0.0865)Cit+(-0.0657)Tyr+(0.1029)Phe;0.790,0.822,0.726,0.682,0.734,0.790,0.783,0.747,(4.2090)+(-0.1507)His+(0.0150)Thr+(-0.0408)Cit+(-0.0045)Pro+(0.0374)Ile+(0.0551)Phe;0.790,0.820,0.748,0.748,0.737,0.786,0.746,0.754,(4.5694)+(0.0046)Gly+(-0.1333)His+(-0.0096)Arg+(-0.0336)Tyr+(-0.0037)Val+(0.1100)Phe;0.790,0.828,0.818,0.836,0.816,0.810,0.779,0.810,(4.6199)+(0.0060)Gln+(-0.0134)Arg+(0.0092)Pro+(-0.1717)Met+(0.0084)Lys+(-0.1411)Trp;0.790,0.827,0.826,0.836,0.838,0.831,0.773,0.819,(5.3829)+(0.0004)Gly+(0.0057)Gln+(-0.0724)Cit+(-0.0044)Arg+(0.0016)Tyr+(-0.1539)Trp;0.790,0.823,0.804,0.813,0.787,0.812,0.808,0.805,(4.4665)+(0.0027)Gln+(-0.0080)Ala+(0.0082)Pro+(0.0125)Orn+(0.0086)Leu+(-0.1522)Trp;0.790,0.822,0.723,0.677,0.747,0.824,0.724,0.743,(5.1257)+(0.0057)Gly+(-0.1231)His+(-0.0747)Cit+(0.0432)Orn+(-0.0100)Lys+(0.0486)Ile;0.790,0.821,0.747,0.720,0.764,0.787,0.756,0.757,(5.4240)+(-0.0574)Asn+(-0.1390)His+(0.0241)Thr+(-0.0322)Cit+(-0.0094)Arg+(0.0815)Phe;0.790,0.818,0.773,0.740,0.756,0.844,0.848,0.797,(6.3279)+(-0.0101)Asn+(-0.1077)His+(-0.0077)Ala+(-0.0494)Cit+(0.0065)Arg+(0.0639)Ile;0.790,0.813,0.757,0.735,0.751,0.820,0.785,0.773,(4.0503)+(0.0079)Gln+(-0.1537)His+(0.0106)Thr+(-0.0348)Cit+(-0.0155)Val+(0.0374)Leu;0.790,0.825,0.785,0.789,0.777,0.790,0.787,0.786,(5.9788)+(-0.0028)Gly+(0.0150)Thr+(-0.0187)Tyr+(-0.0246)Val+(0.0484)Leu+(-0.1549)Trp;0.790,0.825,0.804,0.814,0.798,0.816,0.781,0.802,(6.2807)+(-0.0005)Gly+(-0.0067)Ala+(-0.0149)Arg+(0.0098)Pro+(0.0246)Orn+(-0.1366)Trp;0.790,0.821,0.826,0.833,0.836,0.825,0.785,0.820,(7.9431)+(-0.0378)Asn+(-0.0575)Cit+(0.0052)Arg+(-0.0557)Met+(0.0086)Lys+(-0.1355)Trp;0.790,0.820,0.796,0.797,0.787,0.845,0.778,0.802,(4.1152)+(0.0010)Gly+(0.0118)Gln+(-0.1340)His+(-0.0134)Arg+(0.0083)Pro+(-0.1182)Met;0.790,0.819,0.748,0.749,0.664,0.826,0.864,0.775,(3.7538)+(-0.0013)Gln+(-0.0105)Ala+(0.0071)Pro+(-0.0286)Tyr+(-0.0508)Val

+(0.1674)Ile;0.790,0.818,0.755,0.758,0.670,0.829,0.873,0.782,(3.7545)+(-0.0026)Gly+(-0.0104)Ala+(0.0071)Pro+(-0.0315)Tyr+(-0.0507)Val+(0.1662)Ile;0.790,0.818,0.774,0.762,0.775,0.828,0.763,0.782,(3.9355)+(0.0101)Gln+(-0.1527)His+(-0.0214)Arg+(0.0029)Pro+(0.0225)Orn+(0.0007)Lys;0.790,0.826,0.794,0.812,0.804,0.799,0.724,0.785,(7.3862)+(-0.0709)Asn+(0.0208)Thr+(-0.0132)Arg+(0.0059)Pro+(-0.0136)Tyr+(-0.1391)Trp;0.790,0.824,0.738,0.712,0.742,0.796,0.755,0.751,(4.0501)+(-0.0490)Asn+(0.0056)Gly+(-0.1410)His+(0.0007)Pro+(0.0204)Orn+(0.0761)Phe;0.790,0.827,0.757,0.780,0.746,0.782,0.698,0.752,(-2.0311)+(0.0523)Ser+(-0.1020)Asn+(-0.0246)Tyr+(-0.2505)Met+(-0.0069)Leu+(0.1222)Phe;0.790,0.821,0.764,0.741,0.751,0.800,0.826,0.779,(5.5703)+(-0.0552)Asn+(-0.1186)His+(0.0039)Pro+(-0.0259)Val+(0.0363)Leu+(0.0803)Phe;0.790,0.821,0.728,0.699,0.723,0.797,0.763,0.746,(5.3681)+(0.0027)Gly+(-0.1344)His+(-0.0005)Pro+(-0.0305)Tyr+(0.0252)Orn+(0.0489)Ile;0.790,0.826,0.816,0.808,0.824,0.817,0.819,0.817,(7.8451)+(-0.0486)Asn+(-0.0591)Cit+(0.0111)Tyr+(-0.0200)Val+(0.0474)Leu+(-0.1455)Trp;0.790,0.824,0.727,0.690,0.754,0.812,0.707,0.741,(3.9029)+(0.0065)Gly+(-0.1345)His+(-0.0774)Cit+(0.0447)Orn+(-0.0097)Lys+(0.0823)Phe;0.790,0.824,0.794,0.790,0.791,0.845,0.775,0.800,(4.0628)+(0.0111)Gln+(-0.1414)His+(-0.0189)Arg+(-0.1077)Met+(0.0253)Orn+(0.0064)Lys;0.790,0.822,0.823,0.825,0.840,0.818,0.786,0.817,(7.8531)+(-0.0471)Asn+(-0.0632)Cit+(0.0084)Tyr+(0.0021)Val+(0.0055)Lys+(-0.1461)Trp;0.790,0.821,0.744,0.739,0.736,0.784,0.742,0.750,(4.4889)+(0.0048)Gly+(-0.1379)His+(-0.0091)Arg+(-0.0361)Tyr+(0.0010)Leu+(0.1033)Phe;0.790,0.820,0.820,0.825,0.833,0.838,0.770,0.816,(6.9845)+(0.0025)Gly+(-0.0033)Ala+(-0.0684)Cit+(0.0147)Tyr+(0.0030)Lys+(-0.1450)Trp;0.790,0.817,0.770,0.765,0.760,0.823,0.766,0.779,(4.3214)+(0.0085)Gln+(-0.1523)His+(0.0106)Thr+(-0.0178)Tyr+(0.0045)Val+(-0.0034)Lys;0.790,0.832,0.724,0.720,0.751,0.773,0.644,0.722,(-3.3560)+(0.0536)Se

r+(-0.0808)Cit+(-0.0065)Arg+(0.0111)Pro+(-0.4092)Met+(0.1200)Phe;0.790,0.830,0.806,0.804,0.801,0.808,0.822,0.809,(7.1799)+(-0.0638)Asn+(-0.0036)Arg+(0.0073)Pro+(-0.0276)Val+(0.0514)Leu+(-0.1320)Trp;0.790,0.825,0.781,0.752,0.766,0.837,0.848,0.801,(6.3452)+(-0.1076)His+(-0.0051)Ala+(0.0039)Arg+(0.0025)Tyr+(-0.1308)Met+(0.0694)Ile;0.790,0.822,0.738,0.716,0.736,0.792,0.761,0.751,(-1.1534)+(0.0587)Ser+(-0.0581)Asn+(-0.0056)Gly+(0.0039)Pro+(-0.3

092)Met+(0.0569)Ile;0.790,0.820,0.750,0.735,0.744,0.808,0.764,0.763,(4.0426)+(0.0072)Gln+(-0.1584)His+(0.0092)Thr+(-0.0277)Tyr+(0.0186)Orn+(0.0138)Leu;0.790,0.816,0.778,0.758,0.771,0.833,0.808,0.793,(4.0985)+(0.0100)Gln+(-0.1462)His+(-0.0346)Cit+(-0.0134)Val+(-0.0058)Lys+(0.0377)Leu;0.790,0.816,0.776,0.770,0.772,0.830,0.757,0.782,(4.2500)+(-0.0002)Gly+(0.0102)Gln+(-0.1544)His+(0.0122)Thr+(-0.0240)Arg+(0.0034)Pro;0.790,0.829,0.849,0.863,0.849,0.844,0.815,0.843,(5.1494)+(-0.0511)Asn+(0.0079)Gln+(-0.0070)Arg+(0.0196)Tyr+(-0.1191)Met+(-0.1358)Trp;0.790,0.827,0.846,0.865,0.840,0.841,0.812,0.840,(5.3831)+(-0.0529)Asn+(-0.0006)Gly+(0.0080)Gln+(-0.0060)Arg+(-0.0860)Met+(-0.1306)Trp;0.790,0.823,0.806,0.824,0.811,0.808,0.746,0.797,(7.3273)+(-0.0862)Asn+(0.0184)Thr+(-0.0068)Tyr+(-0.0030)Val+(0.0038)Lys+(-0.1377)Trp;0.790,0.823,0.817,0.831,0.817,0.827,0.770,0.811,(7.5879)+(-0.0732)Asn+(-0.0012)Gly+(0.0209)Thr+(-0.0032)Ala+(-0.0028)Tyr+(-0.1379)Trp;0.790,0.820,0.758,0.749,0.680,0.840,0.888,0.789,(3.5318)+(-0.0009)Gly+(-0.0108)Ala+(0.0053)Pro+(-0.0509)Val+(-0.0107)Lys+(0.1716)Ile;0.790,0.819,0.778,0.767,0.779,0.833,0.764,0.786,(4.0824)+(0.0003)Gly+(0.0101)Gln+(-0.1508)His+(-0.0207)Arg+(-0.0001)Val+(0.0250)Orn;0.790,0.815,0.782,0.774,0.775,0.829,0.784,0.790,(3.8922)+(0.0005)Gly+(0.0112)Gln+(-0.1546)His+(-0.0172)Arg+(-0.0131)Tyr+(0.0147)Leu;0.790,0.830,0.729,0.723,0.717,0.837,0.688,0.741,(0.8476)+(0.0353)Ser+(0.0183)Thr+(0.0120)Pro+(-0.0476)

Val+(-0.3930)Met+(0.0799)Leu;0.790,0.824,0.808,0.823,0.788,0.826,0.796,0.809,(4.8027)+(0.0026)Gln+(-0.0072)Ala+(0.0092)Pro+(-0.0024)Val+(0.0170)Orn+(-0.1425)Trp;0.790,0.824,0.799,0.814,0.785,0.814,0.780,0.798,(6.3071)+(-0.0024)Gly+(0.0125)Thr+(-0.0064)Ala+(0.0101)Pro+(-0.0133)Tyr+(-0.1428)Trp;0.790,0.824,0.816,0.827,0.809,0.821,0.801,0.814,(7.3503)+(-0.0234)Asn+(-0.0043)Ala+(-0.0007)Arg+(0.0125)Pro+(-0.0827)Met+(-0.1224)Trp;0.790,0.823,0.756,0.743,0.771,0.820,0.715,0.762,(6.6403)+(-0.0148)Asn+(0.0013)Gly+(-0.1212)His+(0.0234)Thr+(-0.1390)Met+(0.0294)Orn;0.790,0.820,0.796,0.810,0.728,0.857,0.859,0.813,(3.3160)+(-0.0831)Asn+(0.0044)Gln+(-0.0086)Ala+(-0.0334)Tyr+(0.1672)Ile+(-0.0818)Leu;0.790,0.820,0.746,0.727,0.755,0.802,0.736,0.755,(4.4455)+(-0.0488)Asn+(0.0078)Gly+(-0.1302)His+(-0.0445)Cit+(-0.0007)Lys+(0.0948)Phe;0.790,0.819,0.769,0.738,0.748,0.834,0.845,0.791,(6.1521)+(-0.0055)Asn+(-0.1176)His+(-0.0074)Ala+(-0.0039)Arg+(0.0043)Pro+(0.0545)Ile;0.790,0.822,0.771,0.772,0.751,0.780,0.799,0.776,(5.3531)+(-0.0424)Asn+(-0.1211)His+(-0.0395)Tyr+(-0.0070)Val+(0.0069)Lys+(0.1097)Phe;0.790,0.821,0.731,0.722,0.730,0.778,0.723,0.738,(4.1904)+(0.0055)Gly+(-0.1329)His+(-0.0420)Cit+(0.0049)Pro+(-0.0423)Tyr+(0.1058)Phe;0.790,0.818,0.769,0.761,0.711,0.851,0.855,0.794,(4.3453)+(-0.1564)Asn+(0.0032)Gln+(-0.0576)Val+(0.0286)Orn+(-0.0030)Lys+(0.1622)Ile;0.790,0.826,0.805,0.810,0.828,0.827,0.725,0.797,(7.2651)+(0.0171)Thr+(-0.0678)Cit+(-0.0056)Arg+(-0.0029)Tyr+(-0.0010)Lys+(-0.1544)Trp;0.790,0.825,0.749,0.721,0.742,0.817,0.788,0.767,(5.5441)+(-0.1109)His+(-0.0173)Arg+(0.0263)Orn+(0.0020)Lys+(0.1118)Ile+(-0.0530)Leu;0.790,0.823,0.757,0.747,0.770,0.822,0.706,0.761,(6.7173)+(-0.0100)Asn+(0.0020)Gly+(-0.1147)His+(0.0263)Thr+(0.0081)Pro+(-0.1680)Met;0.790,0.822,0.741,0.719,0.740,0.799,0.762,0.755,(-1.1444)+(0.0581)Ser+(-0.0605)Asn+(-0.0055)Gly+(-0.2978)Met+(0.0040)Orn+(0.0597)Ile;0.790,0.820,0.763,0.753,0.765,0.850,0.724,0.7

73,(5.3212)+(0.0419)Ser+(-0.0505)Asn+(-0.1064)His+(-0.0013)Ala+(-0.0258)Cit+(-0.0046)Arg;0.790,0.820,0.753,0.743,0.757,0.803,0.740,0.760,(4.6430)+(-0.0561)Asn+(0.0075)Gly+(-0.1231)His+(-0.0417)Cit+(-0.0058)Val+(0.1056)Phe;0.790,0.825,0.773,0.798,0.736,0.788,0.776,0.774,(0.6563)+(0.0563)Ser+(-0.1735)Asn+(-0.0068)Gly+(-0.0566)Tyr+(-0.0171)Val+(0.1244)Phe;0.790,0.819,0.732,0.694,0.736,0.808,0.769,0.752,(5.1811)+(-0.0318)Asn+(0.0044)Gly+(-0.1354)His+(-0.0021)Pro+(0.0211)Orn+(0.0456)Ile;0.790,0.816,0.765,0.747,0.761,0.820,0.778,0.777,(3.8555)+(-0.0001)Gly+(0.0080)Gln+(-0.1535)His+(0.0026)Pro+(-0.0008)Val+(0.0201)Orn;0.790,0.828,0.778,0.789,0.779,0.809,0.725,0.775,(3.3361)+(0.0287)Ser+(0.0006)Gln+(-0.0069)Tyr+(0.0021)Val+(-0.0054)Lys+(-0.1467)Trp;0.790,0.824,0.805,0.809,0.800,0.814,0.800,0.806,(6.3217)+(0.0012)Gly+(-0.0052)Ala+(0.0115)Pro+(-0.1214)Met+(0.0148)Leu+(-0.1332)Trp;0.790,0.825,0.788,0.774,0.793,0.800,0.807,0.793,(4.5908)+(-0.1186)His+(-0.0234)Cit+(-0.0064)Val+(-0.1943)Met+(0.0099)Lys+(0.1262)Phe;0.790,0.823,0.785,0.771,0.786,0.804,0.807,0.792,(4.5924)+(0.0122)Asn+(-0.1197)His+(0.0012)Arg+(-0.0042)Val+(-0.1843)Met+(0.1236)Phe;0.790,0.816,0.741,0.715,0.752,0.828,0.727,0.755,(4.2700)+(0.0446)Ser+(-0.0034)Gly+(-0.1322)His+(-0.0197)Cit+(-0.0106)Arg+(0.0054)Val;0.790,0.825,0.730,0.679,0.753,0.820,0.752,0.751,(5.7864)+(-0.1279)His+(0.0142)Thr+(-0.0676)Cit+(0.0403)Orn+(-0.0134)Lys+(0.0457)Ile;0.790,0.823,0.824,0.822,0.838,0.830,0.794,0.821,(7.2799)+(-0.0041)Ala+(-0.0706)Cit+(0.0125)Tyr+(0.0062)Val+(0.0014)Lys+(-0.1512)Trp;0.790,0.822,0.744,0.720,0.764,0.810,0.717,0.753,(6.1141)+(0.0028)Gly+(-0.1371)His+(0.0315)Thr+(-0.2128)Met+(0.0014)Lys+(0.0262)Leu;0.790,0.819,0.726,0.691,0.737,0.809,0.734,0.743,(5.4808)+(-0.0527)Asn+(0.0057)Gly+(-0.1268)His+(0.0156)Thr+(-0.0476)Cit+(0.0504)Ile;0.790,0.828,0.750,0.769,0.740,0.769,0.709,0.747,(0.2174)+(0.0533)Ser+(-0.1552)Asn+(-0.0039)Gly+(-0.0712)Cit+(-0.0659)Tyr+(0.

1010)Phe;0.790,0.824,0.815,0.828,0.800,0.819,0.809,0.814,(4.7551)+(0.0045)Gln+(-0.0072)Ala+(-0.0157)Arg+(0.0095)Pro+(0.0109)Leu+(-0.1502)Trp;0.790,0.822,0.764,0.741,0.738,0.827,0.836,0.786,(6.2024)+(-0.1157)His+(-0.0068)Ala+(0.0050)Pro+(-0.0192)Tyr+(0.0000)Lys+(0.0568)Ile;0.790,0.822,0.799,0.796,0.786,0.819,0.820,0.805,(5.6612)+(-0.0006)Gly+(-0.0052)Ala+(-0.0267)Val+(0.0261)Orn+(0.0529)Leu+(-0.1440)Trp;0.790,0.821,0.716,0.683,0.723,0.783,0.742,0.733,(3.4472)+(0.0034)Gly+(-0.1591)His+(0.0097)Thr+(0.0159)Orn+(-0.0023)Leu+(0.0729)Phe;0.790,0.819,0.788,0.795,0.776,0.844,0.756,0.793,(4.8053)+(0.0100)Gln+(-0.1445)His+(0.0158)Thr+(-0.0018)Ala+(-0.0230)Arg+(-0.0113)Tyr;0.790,0.813,0.715,0.688,0.679,0.833,0.780,0.745,(1.3041)+(0.0300)Ser+(-0.0019)Thr+(-0.0658)Cit+(-0.0460)Val+(-0.0217)Lys+(0.1586)Ile;0.790,0.830,0.825,0.843,0.831,0.825,0.766,0.816,(5.6317)+(-0.1017)Asn+(0.0062)Gln+(0.0179)Thr+(-0.0184)Arg+(0.0036)Lys+(-0.1479)Trp;0.790,0.828,0.776,0.766,0.767,0.851,0.765,0.787,(3.9817)+(-0.0184)Asn+(0.0190)Thr+(-0.0745)Cit+(-0.2547)Met+(0.1641)Ile+(-0.0759)Leu;0.790,0.824,0.801,0.805,0.811,0.799,0.771,0.797,(6.4749)+(-0.0292)Asn+(0.0068)Pro+(-0.1248)Met+(0.0209)Orn+(0.0076)Leu+(-0.1329)Trp;0.790,0.821,0.821,0.822,0.832,0.827,0.790,0.818,(7.3065)+(-0.0037)Ala+(-0.0727)Cit+(0.0058)Arg+(0.0068)Val+(0.0007)Lys+(-0.1479)Trp;0.790,0.818,0.775,0.764,0.775,0.830,0.763,0.783,(4.0439)+(0.0100)Gln+(-0.1500)His+(-0.0211)Arg+(0.0033)Pro+(-0.0012)Val+(0.0239)Orn;0.790,0.830,0.774,0.780,0.783,0.803,0.720,0.772,(3.0013)+(0.0323)Ser+(0.0012)Gln+(-0.0176)Arg+(-0.0050)Lys+(0.0142)Leu+(-0.1555)Trp;0.790,0.826,0.753,0.772,0.745,0.783,0.698,0.749,(-2.0594)+(0.0534)Ser+(-0.0932)Asn+(-0.0230)Tyr+(-0.2529)Met+(-0.0057)Lys+(0.1184)Phe;0.790,0.824,0.774,0.749,0.788,0.794,0.796,0.782,(4.4163)+(0.0218)Asn+(-0.1190)His+(-0.0260)Cit+(0.0065)Pro+(-0.2110)Met+(0.1158)Phe;0.790,0.828,0.754,0.735,0.771,0.821,0.722,0.762,(6.4866)+(-0.0078)Asn+

(-0.1203)His+(0.0240)Thr+(0.0064)Pro+(-0.1666)Met+(0.0259)Orn;0.790,0.827,0.792,0.783,0.786,0.843,0.788,0.800,(4.0309)+(0.0096)Gln+(-0.1399)His+(0.0032)Tyr+(-0.1226)Met+(0.0239)Orn+(0.0028)Lys;0.790,0.827,0.740,0.722,0.719,0.829,0.769,0.760,(-1.8292)+(0.0440)Ser+(0.0059)Thr+(-0.0076)Ala+(0.0051)Tyr+(-0.3383)Met+(0.0794)Ile;0.790,0.821,0.752,0.738,0.682,0.841,0.873,0.784,(3.5410)+(-0.0011)Gln+(-0.0098)Ala+(-0.0522)Val+(0.0239)Orn+(-0.0129)Lys+(0.1742)Ile;0.790,0.819,0.756,0.743,0.704,0.841,0.836,0.781,(4.8986)+(-0.1454)Asn+(0.0021)Gly+(-0.0583)Val+(0.0310)Orn+(-0.0019)Lys+(0.1652)Ile;0.790,0.813,0.747,0.723,0.735,0.824,0.783,0.766,(6.1001)+(0.0013)Gly+(-0.1348)His+(0.0176)Thr+(-0.0039)Ala+(-0.0203)Val+(0.0478)Leu;0.790,0.829,0.762,0.763,0.748,0.852,0.725,0.772,(2.8322)+(0.0396)Ser+(-0.1207)Asn+(0.0249)Thr+(-0.0516)Val+(-0.2673)Met+(0.0920)Leu;0.790,0.829,0.765,0.740,0.758,0.819,0.810,0.781,(4.7237)+(-0.1357)His+(-0.0049)Ala+(0.0265)Orn+(-0.0036)Lys+(0.0018)Leu+(0.0728)Phe;0.790,0.828,0.762,0.764,0.769,0.805,0.710,0.762,(-2.4177)+(0.0476)Ser+(-0.0045)Ala+(-0.0835)Cit+(-0.3292)Met+(0.0028)Leu+(0.1193)Phe;0.790,0.827,0.760,0.771,0.771,0.795,0.680,0.754,(-2.2964)+(0.0476)Ser+(-0.0669)Cit+(-0.0069)Arg+(-0.0095)Val+(-0.3370)Met+(0.1358)Phe;0.790,0.826,0.832,0.844,0.821,0.837,0.822,0.831,(5.1029)+(-0.0798)Asn+(0.0057)Gln+(-0.0044)Ala+(0.0184)Orn+(0.0088)Leu+(-0.1406)Trp;0.790,0.822,0.739,0.722,0.744,0.798,0.734,0.749,(4.0719)+(0.0045)Gly+(-0.1387)His+(-0.0153)Arg+(-0.0084)Val+(0.0288)Orn+(0.0880)Phe;0.790,0.821,0.681,0.644,0.638,0.791,0.786,0.715,(0.2582)+(0.0383)Ser+(-0.0058)Gln+(-0.0542)Val+(-0.0244)Lys+(0.1620)Ile+(0.0535)Phe;0.790,0.817,0.772,0.762,0.722,0.841,0.853,0.794,(5.7741)+(-0.1092)Asn+(-0.0450)Cit+(-0.0025)Arg+(-0.0540)Val+(0.0004)Lys+(0.1654)Ile;0.790,0.817,0.771,0.767,0.767,0.824,0.755,0.778,(4.2757)+(0.0099)Gln+(-0.1440)His+(-0.0204)Arg+(0.0050)Pro+(-0.0208)Tyr+(0.0265)Orn;0.790,0.828,0.743,

0.732,0.678,0.849,0.829,0.772,(0.6891)+(0.0317)Ser+(-0.0018)Gln+(-0.0114)Ala+(-0.0159)Lys+(0.1698)Ile+(-0.0749)Leu;0.790,0.827,0.824,0.841,0.820,0.815,0.790,0.817,(4.9381)+(-0.0010)Gly+(0.0065)Gln+(-0.0091)Arg+(0.0091)Pro+(-0.1526)Met+(-0.1346)Trp;0.790,0.826,0.818,0.809,0.828,0.844,0.805,0.821,(8.8666)+(-0.0699)His+(-0.0016)Ala+(-0.0381)Cit+(0.0045)Arg+(0.0237)Tyr+(-0.1078)Trp;0.790,0.825,0.811,0.812,0.799,0.854,0.805,0.817,(4.3511)+(-0.0350)Asn+(0.0010)Gly+(0.0116)Gln+(-0.1335)His+(0.0100)Tyr+(-0.0895)Met;0.790,0.822,0.808,0.809,0.795,0.854,0.800,0.814,(4.1475)+(0.0124)Gln+(-0.1422)His+(-0.0013)Ala+(-0.0132)Arg+(0.0059)Val+(-0.0865)Met;0.790,0.821,0.757,0.745,0.752,0.843,0.736,0.769,(4.8250)+(0.0406)Ser+(-0.0618)Asn+(-0.1161)His+(-0.0016)Ala+(0.0006)Tyr+(0.0038)Lys;0.790,0.821,0.821,0.823,0.808,0.862,0.809,0.826,(4.7857)+(-0.0408)Asn+(0.0123)Gln+(-0.1221)His+(-0.0009)Ala+(-0.0353)Cit+(-0.0571)Met;0.790,0.819,0.774,0.741,0.756,0.848,0.849,0.798,(6.3364)+(-0.1056)His+(-0.0077)Ala+(-0.0527)Cit+(0.0086)Arg+(-0.0048)Lys+(0.0675)Ile;0.790,0.829,0.792,0

.800,0.783,0.829,0.760,0.793,(3.3348)+(0.0271)Ser+(0.0008)Gln+(-0.0044)Ala+(-0.0009)Tyr+(0.0030)Val+(-0.1477)Trp;0.790,0.821,0.748,0.760,0.705,0.797,0.771,0.758,(1.7588)+(-0.0857)Cit+(-0.0740)Tyr+(-0.0085)Lys+(0.1734)Ile+(-0.0980)Leu+(0.1031)Phe;0.790,0.821,0.811,0.824,0.803,0.820,0.785,0.808,(6.7681)+(0.0008)Gly+(-0.0045)Ala+(0.0128)Pro+(0.0006)Val+(-0.1071)Met+(-0.1251)Trp;0.790,0.818,0.798,0.796,0.784,0.847,0.796,0.806,(4.1492)+(0.0007)Gly+(0.0113)Gln+(-0.1494)His+(-0.0027)Ala+(-0.0170)Arg+(0.0048)Val;0.790,0.813,0.765,0.752,0.757,0.816,0.780,0.776,(3.9273)+(-0.0004)Gly+(0.0084)Gln+(-0.1569)His+(0.0062)Thr+(0.0027)Pro+(0.0011)Val;0.790,0.824,0.791,0.779,0.790,0.809,0.816,0.798,(4.8196)+(-0.1162)His+(-0.0012)Ala+(0.0016)Arg+(-0.0041)Val+(-0.1664)Met+(0.1225)Phe;0.790,0.818,0.729,0.693,0.732,0.794,0.771,0.748,(4.538

7)+(-0.1472)His+(0.0181)Thr+(-0.0321)Cit+(-0.0204)Val+(0.0310)Leu+(0.0756)Phe;0.790,0.818,0.769,0.748,0.755,0.803,0.830,0.784,(5.5753)+(-0.0563)Asn+(-0.1200)His+(-0.0251)Val+(0.0024)Lys+(0.0357)Leu+(0.0820)Phe;0.790,0.827,0.730,0.705,0.750,0.803,0.704,0.741,(-0.7755)+(0.0486)Ser+(-0.0038)Gly+(0.0127)Thr+(-0.0740)Cit+(-0.3732)Met+(0.0693)Ile;0.790,0.829,0.754,0.736,0.770,0.821,0.720,0.762,(6.4213)+(-0.1201)His+(0.0235)Thr+(0.0067)Pro+(-0.0010)Val+(-0.1711)Met+(0.0265)Orn;0.790,0.821,0.732,0.724,0.720,0.773,0.747,0.741,(4.1278)+(0.0040)Gly+(-0.1397)His+(0.0043)Pro+(-0.0429)Tyr+(0.0006)Lys+(0.0984)Phe;0.790,0.812,0.736,0.708,0.733,0.808,0.763,0.753,(6.2131)+(0.0012)Gly+(-0.1372)His+(0.0191)Thr+(-0.0222)Val+(-0.0064)Lys+(0.0500)Leu;0.790,0.826,0.748,0.722,0.767,0.808,0.736,0.758,(6.2545)+(-0.1326)His+(0.0319)Thr+(0.0051)Pro+(-0.2221)Met+(0.0018)Lys+(0.0221)Leu;0.790,0.824,0.755,0.717,0.761,0.819,0.799,0.774,(5.5196)+(0.0304)Asn+(-0.1226)His+(0.0010)Pro+(-0.1815)Met+(0.0223)Orn+(0.0586)Ile;0.790,0.824,0.751,0.720,0.755,0.812,0.780,0.767,(5.4721)+(0.0058)Gly+(-0.1168)His+(0.0021)Pro+(0.0020)Tyr+(-0.1689)Met+(0.0649)Ile;0.790,0.824,0.798,0.796,0.784,0.821,0.814,0.804,(5.6287)+(-0.0050)Ala+(-0.0036)Tyr+(-0.0266)Val+(0.0264)Orn+(0.0530)Leu+(-0.1432)Trp;0.790,0.824,0.774,0.744,0.762,0.834,0.840,0.795,(5.9090)+(0.0363)Asn+(-0.1125)His+(-0.0052)Ala+(0.0064)Tyr+(-0.1662)Met+(0.0730)Ile;0.790,0.821,0.749,0.720,0.763,0.789,0.766,0.760,(5.2856)+(-0.0640)Asn+(-0.1372)His+(0.0222)Thr+(-0.0386)Cit+(-0.0022)Leu+(0.0834)Phe;0.790,0.818,0.760,0.742,0.758,0.815,0.775,0.773,(3.8692)+(-0.0004)Gly+(0.0076)Gln+(-0.1567)His+(0.0043)Thr+(0.0020)Pro+(0.0181)Orn;0.790,0.817,0.710,0.704,0.660,0.813,0.756,0.734,(1.9487)+(0.0296)Ser+(-0.0024)Gln+(-0.0305)Arg+(-0.0292)Tyr+(-0.0524)Val+(0.1645)Ile;0.790,0.817,0.759,0.742,0.757,0.816,0.770,0.771,(3.8810)+(0.0075)Gln+(-0.1555)His+(0.0041)Thr+(0.0023)Pro+(-0.0007)Val+(0.0187)Orn;0.790,0.

828,0.831,0.843,0.829,0.821,0.810,0.826,(5.1917)+(-0.0910)Asn+(-0.0009)Gly+(0.0058)Gln+(0.0173)Orn+(0.0014)Lys+(-0.1417)Trp;0.790,0.825,0.802,0.814,0.815,0.805,0.742,0.794,(7.3105)+(-0.0723)Asn+(-0.0008)Gly+(0.0200)Thr+(-0.0137)Arg+(0.0047)Pro+(-0.1444)Trp;0.790,0.827,0.818,0.825,0.821,0.804,0.804,0.813,(4.2654)+(0.0056)Gln+(0.0068)Pro+(0.0130)Tyr+(-0.1966)Met+(0.0110)Leu+(-0.1450)Trp;0.790,0.821,0.747,0.736,0.752,0.847,0.693,0.757,(4.9782)+(0.0352)Ser+(-0.1234)His+(0.0109)Thr+(-0.0023)Ala+(-0.0257)Cit+(-0.0128)Arg;0.790,0.826,0.788,0.784,0.784,0.794,0.805,0.792,(5.8644)+(-0.0491)Asn+(-0.0164)Tyr+(0.0126)Orn+(-0.0027)Lys+(0.0508)Ile+(-0.1475)Trp;0.790,0.823,0.762,0.731,0.769,0.834,0.777,0.777,(6.1494)+(0.0029)Gly+(-0.1125)His+(-0.0264)Val+(-0.1257)Met+(0.0375)Orn+(0.0557)Leu;0.790,0.821,0.708,0.685,0.649,0.816,0.813,0.741,(-0.8978)+(0.0307)Ser+(-0.0059)Pro+(-0.0529)Val+(-0.0268)Lys+(0.1631)Ile+(0.0464)Phe;0.790,0.820,0.746,0.726,0.754,0.836,0.715,0.758,(4.8337)+(0.0411)Ser+(-0.0041)Gly+(-0.1286)His+(0.0095)Thr+(-0.0167)Cit+(-0.0145)Arg;0.790,0.818,0.769,0.745,0.746,0.829,0.835,0.789,(6.4350)+(-0.0030)Asn+(-0.1162)His+(-0.0057)Ala+(-0.0022)Arg+(-0.0159)Tyr+(0.0606)Ile;0.790,0.818,0.759,0.741,0.762,0.837,0.741,0.770,(5.0164)+(0.0459)Ser+(-0.0589)Asn+(-0.0032)Gly+(-0.1115)His+(-0.0244)Cit+(0.0022)Lys;0.790,0.817,0.740,0.755,0.697,0.787,0.755,0.749,(1.1278)+(0.0021)Thr+(-0.0879)Cit+(-0.0812)Tyr+(0.1736)Ile+(-0.1023)Leu+(0.1000)Phe;0.790,0.829,0.767,0.763,0.761,0.782,0.779,0.771,(5.0900)+(0.0120)Thr+(-0.0015)Pro+(-0.0235)Tyr+(-0.0098)Lys+(0.0597)Ile+(-0.1590)Trp;0.790,0.827,0.797,0.815,0.809,0.810,0.714,0.787,(7.1803)+(-0.0713)Asn+(0.0192)Thr+(-0.0154)Arg+(-0.0125)Tyr+(0.0222)Orn+(-0.1377)Trp;0.790,0.825,0.804,0.813,0.790,0.818,0.796,0.804,(5.8999)+(-0.0011)Gly+(-0.0068)Ala+(0.0098)Pro+(-0.0028)Val+(0.0213)Orn+(-0.1366)Trp;0.790,0.822,0.815,0.812,0.833,0.809,0.793,0.812,(7.6462)+(-0.0422)Asn+(-0.0670)Cit

+(0.0063)Tyr+(0.0024)Lys+(0.0143)Leu+(-0.1531)Trp;0.790,0.822,0.811,0.812,0.802,0.851,0.797,0.816,(4.2665)+(-0.0239)Asn+(0.0129)Gln+(-0.1393)His+(-0.0128)Arg+(0.0044)Val+(-0.0759)Met;0.790,0.820,0.811,0.813,0.795,0.849,0.812,0.817,(4.3798)+(-0.0404)Asn+(0.0114)Gln+(-0.1327)His+(-0.0008)Ala+(-0.0841)Met+(0.0065)Lys;0.790,0.820,0.788,0.780,0.783,0.841,0.784,0.797,(4.2983)+(0.0100)Gln+(-0.1462)His+(-0.0030)Ala+(-0.0207)Arg+(0.0269)Orn+(0.0023)Lys;0.790,0.819,0.799,0.801,0.787,0.839,0.790,0.804,(4.5780)+(-0.0480)Asn+(0.0123)Gln+(-0.1350)His+(-0.0149)Arg+(0.0061)Pro+(-0.0122)Tyr;0.790,0.818,0.709,0.678,0.654,0.815,0.829,0.744,(1.7231)+(0.0434)Ser+(-0.0086)Gly+(-0.0031)Gln+(-0.0515)Val+(-0.0208)Lys+(0.1643)Ile;0.790,0.827,0.775,0.750,0.778,0.839,0.789,0.789,(3.4039)+(0.0254)Thr+(-0.0121)Ala+(-0.0926)Cit+(0.0100)Pro+(-0.2828)Met+(0.0686)Ile;0.790,0.820,0.815,0.827,0.807,0.822,0.798,0.813,(7.1717)+(-0.0445)Asn+(0.0011)Gly+(-0.0053)Ala+(-0.0042)Arg+(0.0112)Pro+(-0.1272)Trp;0.790,0.827,0.758,0.741,0.775,0.862,0.694,0.768,(1.5560)+(0.0359)Ser+(-0.0859)Cit+(-0.0392)Val+(-0.2838)Met+(0.0474)Orn+(0.0671)Leu;0.790,0.826,0.767,0.753,0.776,0.831,0.736,0.774,(6.8854)+(-0.0140)Asn+(-0.1186)His+(0.0236)Thr+(-0.0017)Ala+(-0.1288)Met+(0.0307)Orn;0.790,0.827,0.786,0.784,0.744,0.856,0.833,0.804,(3.2087)+(0.0108)Thr+(-0.0080)Ala+(-0.2349)Met+(0.0062)Orn+(0.1745)Ile+(-0.0781)Leu;0.790,0.826,0.698,0.671,0.643,0.811,0.804,0.732,(-0.9150)+(0.0297)Ser+(-0.0531)Val+(0.0102)Orn+(-0.0285)Lys+(0.1546)Ile+(0.0409)Phe;0.790,0.823,0.758,0.743,0.751,0.828,0.761,0.771,(4.3257)+(0.0066)Gly+(-0.1306)His+(-0.0049)Ala+(-0.0474)Cit+(-0.0019)Lys+(0.0985)Phe;0.790,0.821,0.742,0.739,0.733,0.781,0.740,0.748,(4.3866)+(0.0048)Gly+(-0.1399)His+(-0.0113)Arg+(-0.0387)Tyr+(0.0039)Lys+(0.1034)Phe;0.790,0.819,0.769,0.742,0.759,0.833,0.813,0.787,(6.8967)+(-0.0442)Asn+(-0.1093)His+(-0.0031)Ala+(-0.0273)Val+(0.0405)Orn+(0.0515)Leu;0.790,0.817,0.771,0.762,0.

721,0.837,0.850,0.792,(5.6099)+(-0.1058)Asn+(-0.0495)Cit+(-0.0472)Val+(0.0007)Lys+(0.1777)Ile+(-0.0200)Leu;0.790,0.812,0.735,0.705,0.734,0.805,0.769,0.753,(6.2917)+(-0.1357)His+(0.0190)Thr+(0.0024)Pro+(-0.0232)Val+(-0.0065)Lys+(0.0498)Leu;0.790,0.824,0.794,0.796,0.814,0.808,0.738,0.789,(6.7441)+(0.0023)Gly+(-0.0750)Cit+(0.0088)Pro+(-0.0035)Tyr+(0.0015)Lys+(-0.1514)Trp;0.790,0.819,0.769,0.745,0.746,0.830,0.838,0.790,(6.3789)+(-0.0056)Asn+(-0.1168)His+(-0.0057)Ala+(-0.0164)Tyr+(0.0004)Lys+(0.0603)Ile;0.790,0.818,0.722,0.692,0.735,0.816,0.706,0.737,(3.7713)+(0.0417)Ser+(-0.1383)His+(-0.0244)Cit+(-0.0087)Arg+(-0.0123)Tyr+(0.0218)Leu;0.790,0.817,0.779,0.773,0.778,0.835,0.755,0.785,(4.2450)+(0.0104)Gln+(-0.1536)His+(0.0125)Thr+(-0.0249)Cit+(-0.0196)Arg+(0.0028)Val;0.790,0.835,0.735,0.748,0.726,0.780,0.689,0.736,(-3.1528)+(0.0469)Ser+(0.0138)Pro+(-0.0160)Val+(-0.3968)Met+(-0.0032)Lys+(0.1327)Phe;0.790,0.828,0.816,0.806,0.829,0.837,0.800,0.818,(8.9672)+(-0.0153)Asn+(-0.0681)His+(-0.0380)Cit+(0.0056)Arg+(0.0210)Tyr+(-0.1083)Trp;0.790,0.824,0.765,0.758,0.767,0.851,0.716,0.773,(5.0899)+(0.0425)Ser+(-0.0332)Asn+(-0.1082)His+(0.0000)Ala+(-0.0072)Arg+(-0.0616)Met;0.790,0.823,0.760,0.735,0.793,0.835,0.704,0.767,(6.9022)+(-0.1132)His+(0.0234)Thr+(-0.0651)Cit+(0.0007)Val+(-0.1507)Met+(0.0461)Orn;0.790,0.820,0.763,0.749,0.765,0.852,0.734,0.775,(5.1761)+(0.0418)Ser+(-0.0554)Asn+(-0.1075)His+(-0.0018)Ala+(-0.0301)Cit+(0.0053)Tyr;0.790,0.819,0.779,0.773,0.777,0.827,0.761,0.785,(4.3099)+(0.0101)Gln+(-0.1462)His+(-0.0199)Arg+(-0.0157)Tyr+(0.0011)Val+(0.0277)Orn;0.790,0.818,0.810,0.807,0.793,0.856,0.821,0.819,(4.8687)+(-0.0580)Asn+(0.0115)Gln+(-0.1225)His+(-0.0048)Ala+(-0.0410)Cit+(0.0090)Pro;0.790,0.816,0.756,0.738,0.753,0.841,0.749,0.770,(4.7477)+(0.0418)Ser+(-0.0038)Gly+(-0.1185)His+(-0.0020)Ala+(-0.0255)Cit+(-0.0004)Lys;0.790,0.813,0.704,0.688,0.656,0.814,0.767,0.731,(1.3539)+(0.0317)Ser+(-0.0031)Gln+(-0.0010)Thr+(-0.0

337)Arg+(-0.0564)Val+(0.1668)Ile;0.790,0.829,0.793,0.790,0.790,0.798,0.800,0.795,(5.6052)+(-0.0011)Gly+(-0.0273)Val+(0.0253)Orn+(-0.0048)Lys+(0.0504)Leu+(-0.1466)Trp;0.790,0.827,0.786,0.800,0.793,0.818,0.710,0.780,(3.4154)+(0.0296)Ser+(0.0016)Gln+(-0.0193)Arg+(0.0011)Val+(-0.0010)Lys+(-0.1483)Trp;0.790,0.821,0.718,0.679,0.724,0.795,0.754,0.738,(3.3569)+(0.0069)Gly+(-0.1441)His+(-0.0487)Cit+(-0.0028)Pro+(0.0409)Ile+(0.0632)Phe;0.790,0.821,0.816,0.826,0.805,0.824,0.803,0.815,(7.0682)+(-0.0492)Asn+(0.0010)Gly+(-0.0055)Ala+(0.0110)Pro+(0.0011)Tyr+(-0.1281)Trp;0.790,0.826,0.734,0.758,0.734,0.767,0.647,0.727,(0.2233)+(0.0462)Ser+(-0.1704)Asn+(0.0080)Thr+(-0.0804)Cit+(-0.0680)Tyr+(0.1034)Phe;0.790,0.822,0.784,0.781,0.740,0.851,0.834,0.801,(3.2402)+(0.0013)Gly+(-0.0080)Ala+(-0.2031)Met+(0.0112)Orn+(0.1768)Ile+(-0.0802)Leu;0.790,0.821,0.756,0.737,0.750,0.828,0.768,0.771,(4.1975)+(0.0066)Gly+(-0.1338)His+(-0.0055)Ala+(-0.0480)Cit+(0.0063)Leu+(0.0903)Phe;0.790,0.814,0.780,0.781,0.713,0.847,0.867,0.802,(4.0052)+(-0.1464)Asn+(0.0045)Gln+(-0.0024)Pro+(-0.0501)Val+(0.1768)Ile+(-0.0172)Leu;0.790,0.822,0.752,0.740,0.678,0.842,0.874,0.784,(3.1875)+(-0.0107)Ala+(0.0036)Pro+(-0.0516)Val+(0.0204)Orn+(-0.0138)Lys+(0.1703)Ile;0.790,0.829,0.772,0.796,0.762,0.809,0.704,0.768,(-2.4689)+(0.0455)Ser+(-0.0017)Ala+(-0.0170)Arg+(-0.0118)Val+(-0.3178)Met+(0.1325)Phe;0.790,0.827,0.747,0.718,0.718,0.867,0.798,0.775,(0.6971)+(0.0367)Ser+(-0.0131)Ala+(-0.1026)Cit+(0.0058)Arg+(-0.0252)Lys+(0.0846)Ile;0.790,0.824,0.773,0.769,0.720,0.857,0.834,0.795,(0.8020)+(0.0045)Gly+(-0.0140)Ala+(-0.1080)Cit+(0.1885)Ile+(-0.0964)Leu+(0.0687)Phe;0.790,0.821,0.756,0.747,0.678,0.838,0.883,0.787,(3.5586)+(-0.0005)Gln+(-0.0108)Ala+(0.0053)Pro+(-0.0510)Val+(-0.0105)Lys+(0.1720)Ile;0.790,0.818,0.745,0.727,0.744,0.795,0.758,0.756,(4.3065)+(-0.0470)Asn+(0.0061)Gly+(-0.1388)His+(0.0006)Lys+(-0.0012)Leu+(0.0869)Phe;0.790,

0.818,0.752,0.726,0.749,0.825,0.777,0.769,(6.4566)+(-0.0555)Asn+(0.0029)Gly+(-0.1133)His+(-0.0283)Val+(0.0383)Orn+(0.0512)Leu;0.790,0.829,0.775,0.760,0.781,0.780,0.801,0.780,(4.8741)+(-0.0014)Gly+(0.0089)Thr+(0.0033)Orn+(-0.0111)Lys+(0.0534)Ile+(-0.1663)Trp;0.790,0.825,0.798,0.808,0.787,0.821,0.776,0.798,(5.6686)+(0.0081)Thr+(-0.0073)Ala+(0.0086)Pro+(0.0166)Orn+(-0.0032)Lys+(-0.1434)Trp;0.790,0.821,0.775,0.758,0.777,0.830,0.778,0.786,(3.7783)+(0.0104)Gln+(-0.1580)His+(-0.0192)Arg+(0.0210)Orn+(-0.0018)Lys+(0.0100)Leu;0.790,0.818,0.734,0.748,0.658,0.771,0.826,0.751,(1.6175)+(-0.0038)Gly+(-0.0715)Tyr+(-0.0380)Val+(0.1868)Ile+(-0.0516)Leu+(0.0758)Phe;0.790,0.818,0.784,0.778,0.762,0.843,0.804,0.796,(4.2449)+(0.0001)Gly+(0.0089)Gln+(-0.1422)His+(-0.0048)Ala+(0.0079)Pro+(0.0000)Lys;0.790,0.813,0.718,0.710,0.665,0.821,0.778,0.743,(0.5821)+(0.0281)Ser+(-0.0020)Thr+(-0.0366)Arg+(-0.0017)Pro+(-0.0559)Val+(0.1652)Ile;0.790,0.827,0.753,0.760,0.744,0.783,0.734,0.755,(-3.2316)+(0.0493)Ser+(-0.0062)Gly+(0.0143)Thr+(-0.0037)Ala+(-0.3958)Met+(0.1077)Phe;0.790,0.825,0.816,0.824,0.812,0.829,0.797,0.815,(6.5755)+(0.0013)Gly+(-0.0048)Ala+(0.0122)Pro+(0.0185)Tyr+(-0.1322)Met+(-0.1286)Trp;0.790,0.828,0.741,0.727,0.733,0.780,0.768,0.752,(4.5378)+(-0.1359)His+(0.0032)Pro+(-0.0489)Tyr+(0.0279)Orn+(-0.0013)Lys+(0.0892)Phe;0.790,0.818,0.770,0.740,0.751,0.837,0.843,0.793,(6.2294)+(-0.0044)Asn+(-0.1190)His+(-0.0064)Ala+(-0.0026)Arg+(-0.0007)Lys+(0.0585)Ile;0.790,0.833,0.729,0.700,0.750,0.817,0.696,0.741,(-0.3390)+(0.0490)Ser+(-0.0756)Cit+(0.0040)Pro+(-0.3007)Met+(-0.0118)Lys+(0.0723)Ile;0.790,0.827,0.769,0.756,0.769,0.779,0.799,0.776,(4.3328)+(-0.1247)His+(0.0070)Pro+(-0.0251)Tyr+(-0.1889)Met+(0.0082)Lys+(0.1174)Phe;0.790,0.825,0.744,0.724,0.719,0.829,0.785,0.764,(-1.9113)+(0.0464)Ser+(-0.0077)Ala+(0.0081)Tyr+(-0.3237)Met+(-0.0023)Orn+(0.0809)Ile;0.790,0.821,0.739,0.719,0.746,0.790,0.741,0.749,(4.8494)+(-0.1463)His+(0.0210)Thr+(-

0.0208)Arg+(0.0018)Pro+(-0.0087)Val+(0.0918)Phe;0.790,0.818,0.720,0.697,0.734,0.784,0.706,0.730,(4.0432)+(0.0045)Gly+(-0.1564)His+(0.0177)Thr+(-0.0205)Arg+(-0.0018)Leu+(0.0851)Phe;0.790,0.826,0.779,0.768,0.778,0.790,0.804,0.785,(4.5948)+(-0.1270)His+(-0.0015)Arg+(-0.0208)Tyr+(-0.1710)Met+(0.0088)Lys+(0.1199)Phe;0.790,0.824,0.751,0.720,0.755,0.811,0.779,0.766,(5.4930)+(0.0057)Gly+(-0.1166)His+(0.0004)Arg+(0.0022)Pro+(-0.1665)Met+(0.0649)Ile;0.790,0.823,0.785,0.780,0.730,0.856,0.863,0.807,(1.6499)+(-0.0017)Thr+(-0.0135)Ala+(-0.0976)Cit+(0.1858)Ile+(-0.0965)Leu+(0.0677)Phe;0.790,0.823,0.752,0.734,0.745,0.803,0.781,0.766,(-1.6201)+(0.0567)Ser+(-0.0690)Asn+(-0.0058)Gly+(0.0023)Gln+(-0.3005)Met+(0.0597)Ile;0.790,0.821,0.758,0.744,0.687,0.845,0.880,0.789,(3.4044)+(-0.0015)Gly+(-0.0098)Ala+(-0.0520)Val+(0.0235)Orn+(-0.0135)Lys+(0.1731)Ile;0.790,0.820,0.732,0.700,0.741,0.815,0.741,0.749,(6.2028)+(-0.1356)His+(0.0180)Thr+(-0.0180)Arg+(-0.0268)Val+(0.0325)Orn+(0.0486)Leu;0.790,0.826,0.808,0.814,0.808,0.825,0.780,0.807,(6.6932)+(-0.0775)Asn+(0.0168)Thr+(-0.0050)Ala+(0.0163)Orn+(0.0101)Leu+(-0.1443)Trp;0.790,0.825,0.802,0.790,0.801,0.846,0.806,0.811,(3.7082)+(0.0127)Gln+(-0.1416)His+(-0.0329)Cit+(-0.0058)Arg+(-0.1316)Met+(0.0217)Leu;0.790,0.824,0.814,0.816,0.820,0.834,0.782,0.813,(9.3251)+(-0.0070)Asn+(-0.0642)His+(-0.0002)Ala+(-0.0316)Cit+(0.0076)Met+(-0.0985)Trp;0.790,0.822,0.790,0.785,0.780,0.832,0.792,0.797,(3.7396)+(0.0108)Gln+(-0.1401)His+(0.0077)Pro+(0.0019)Val+(-0.1506)Met+(0.0050)Lys;0.790,0.822,0.817,0.815,0.833,0.812,0.791,0.813,(7.6130)+(-0.0263)Asn+(-0.0598)Cit+(-0.0691)Met+(0.0056)Lys+(0.0161)Leu+(-0.1465)Trp;0.790,0.821,0.765,0.757,0.759,0.822,0.757,0.774,(4.5003)+(0.0073)Gln+(-0.1465)His+(0.0087)Thr+(-0.0196)Tyr+(0.0248)Orn+(-0.0035)Lys;0.790,0.819,0.790,0.788,0.775,0.830,0.799,0.798,(4.4642)+(-0.0633)Asn+(0.0109)Gln+(-0.1362)His+(0.0059)Pro+(-0.0164)Tyr+(0.0035)Lys;0.790,0.830,0.763,0.783,0.763,

0.810,0.679,0.759,(-2.5430)+(0.0438)Ser+(-0.0209)Arg+(-0.0152)Val+(-0.3287)Met+(0.0208)Orn+(0.1302)Phe;0.790,0.821,0.808,0.812,0.796,0.849,0.793,0.812,(4.6306)+(-0.0484)Asn+(0.0007)Gly+(0.0124)Gln+(-0.1362)His+(-0.0146)Arg+(-0.0027)Tyr;0.790,0.820,0.797,0.780,0.784,0.854,0.826,0.811,(4.0947)+(0.0107)Gln+(-0.1443)His+(-0.0045)Ala+(-0.0425)Cit+(-0.0048)Lys+(0.0216)Leu;0.790,0.819,0.808,0.806,0.802,0.847,0.801,0.814,(4.4754)+(-0.0517)Asn+(0.0130)Gln+(-0.1371)His+(-0.0311)Cit+(-0.0101)Arg+(0.0030)Val;0.790,0.817,0.735,0.709,0.751,0.828,0.702,0.748,(4.2075)+(0.0409)Ser+(-0.1324)His+(-0.0266)Cit+(-0.0087)Arg+(0.0068)Val+(-0.0025)Lys;0.790,0.825,0.834,0.837,0.844,0.836,0.804,0.830,(8.0141)+(-0.0468)Asn+(-0.0025)Ala+(-0.0605)Cit+(0.0151)Tyr+(0.0068)Lys+(-0.1403)Trp;0.790,0.819,0.746,0.727,0.755,0.801,0.736,0.755,(4.4294)+(-0.0491)Asn+(0.0078)Gly+(-0.1306)His+(-0.0437)Cit+(-0.0009)Arg+(0.0943)Phe;0.790,0.825,0.801,0.784,0.801,0.847,0.812,0.811,(3.5922)+(0.0123)Gln+(-0.1426)His+(-0.0371)Cit+(0.0066)Tyr+(-0.1489)Met+(0.0221)Leu;0.790,0.824,0.808,0.805,0.798,0.849,0.810,0.815,(4.1398)+(-0.0275)Asn+(0.0118)Gln+(-0.1397)His+(0.0058)Tyr+(0.0041)Val+(-0.0975)Met;0.790,0.823,0.756,0.748,0.769,0.820,0.704,0.760,(6.6464)+(0.0018)Gly+(-0.1156)His+(0.0262)Thr+(0.0083)Pro+(-0.0025)Tyr+(-0.1723)Met;0.790,0.822,0.795,0.793,0.792,0.844,0.773,0.801,(4.0999)+(0.0019)Gly+(0.0111)Gln+(-0.1266)His+(-0.0373)Cit+(0.0088)Pro+(-0.1333)Met;0.790,0.822,0.801,0.801,0.820,0.804,0.761,0.796,(7.0287)+(-0.0720)Cit+(0.0083)Pro+(-0.0052)Tyr+(0.0018)Val+(0.0014)Lys+(-0.1527)Trp;0.790,0.821,0.755,0.750,0.668,0.831,0.897,0.786,(1.5659)+(-0.0017)Gly+(-0.0123)Ala+(0.0039)Pro+(-0.0552)Val+(0.1661)Ile+(0.0345)Phe;0.790,0.818,0.781,0.771,0.765,0.813,0.823,0.793,(5.3776)+(-0.0416)Asn+(-0.1221)His+(-0.0034)Ala+(-0.0066)Val+(0.0043)Lys+(0.0934)Phe;0.790,0.816,0.742,0.706,0.747,0.809,0.778,0.760,(6.1365)+(-0.0405)Asn+(-0.1289)His+(0.0185)Thr+(-0.0383)Ci

t+(-0.0031)Pro+(0.0493)Ile;0.790,0.828,0.829,0.839,0.827,0.818,0.811,0.824,(5.0724)+(-0.0893)Asn+(-0.0008)Gly+(0.0058)Gln+(0.0161)Orn+(0.0042)Leu+(-0.1442)Trp;0.790,0.826,0.816,0.817,0.810,0.811,0.826,0.816,(7.0706)+(-0.0413)Asn+(-0.0277)Val+(-0.1168)Met+(0.0096)Lys+(0.0570)Leu+(-0.1301)Trp;0.790,0.827,0.792,0.782,0.794,0.795,0.813,0.796,(5.6958)+(-0.0528)Asn+(-0.0010)Pro+(0.0106)Orn+(-0.0036)Lys+(0.0502)Ile+(-0.1527)Trp;0.790,0.826,0.802,0.815,0.798,0.821,0.764,0.800,(6.7096)+(-0.0017)Gly+(0.0166)Thr+(-0.0065)Ala+(-0.0181)Arg+(0.0099)Pro+(-0.1461)Trp;0.790,0.825,0.749,0.732,0.760,0.833,0.709,0.758,(4.0697)+(0.0436)Ser+(-0.1255)His+(-0.0099)Arg+(0.0076)Val+(-0.1257)Met+(0.0052)Lys;0.790,0.825,0.799,0.816,0.804,0.803,0.741,0.791,(6.8772)+(-0.0830)Asn+(0.0159)Thr+(-0.0137)Tyr+(0.0188)Orn+(0.0007)Lys+(-0.1383)Trp;0.790,0.820,0.804,0.800,0.799,0.843,0.797,0.810,(4.5288)+(-0.0559)Asn+(0.0127)Gln+(-0.1334)His+(-0.0299)Cit+(-0.0106)Arg+(0.0049)Pro;0.790,0.817,0.808,0.809,0.789,0.850,0.816,0.816,(4.6677)+(-0.0605)Asn+(0.0111)Gln+(-0.1348)His+(-0.0018)Ala+(-0.0045)Tyr+(0.0040)Lys;0.790,0.815,0.730,0.713,0.680,0.824,0.808,0.756,(1.1258)+(0.0360)Ser+(-0.0069)Gly+(-0.0282)Cit+(-0.0317)Arg+(-0.0552)Val+(0.1624)Ile;0.790,0.827,0.730,0.732,0.735,0.765,0.691,0.731,(-3.2350)+(0.0559)Ser+(-0.0898)Asn+(0.0088)Pro+(-0.3496)Met+(0.0000)Orn+(0.1080)Phe;0.790,0.825,0.779,0.749,0.784,0.841,0.802,0.794,(5.3900)+(-0.0307)Asn+(-0.1148)His+(-0.0064)Ala+(-0.0737)Cit+(0.0477)Orn+(0.0771)Phe;0.790,0.827,0.779,0.753,0.792,0.796,0.808,0.787,(4.5271)+(-0.1162)His+(-0.0322)Cit+(0.0076)Arg+(0.0061)Pro+(-0.2005)Met+(0.1146)Phe;0.790,0.825,0.782,0.761,0.788,0.796,0.813,0.790,(4.4371)+(-0.1279)His+(-0.0003)Arg+(-0.1976)Met+(0.0072)Lys+(0.0015)Leu+(0.1127)Phe;0.790,0.827,0.752,0.734,0.768,0.820,0.721,0.761,(6.2269)+(-0.1233)His+(0.0232)Thr+(0.0066)Pro+(-0.1831)Met+(0.0241)Orn+(0.0038)Lys;0.790,0.821,0.733,0.705,0.731,0.801,0.764,0.750,(5.

6559)+(-0.0248)Asn+(0.0035)Gly+(-0.1286)His+(-0.0286)Tyr+(0.0259)Orn+(0.0482)Ile;0.790,0.828,0.748,0.766,0.758,0.797,0.646,0.742,(-3.0083)+(0.0427)Ser+(0.0201)Thr+(-0.0040)Ala+(-0.0238)Arg+(-0.3908)Met+(0.1190)Phe;0.790,0.824,0.824,0.820,0.838,0.831,0.799,0.822,(7.2161)+(-0.0042)Ala+(-0.0746)Cit+(0.0050)Arg+(0.0118)Tyr+(0.0067)Val+(-0.1515)Trp;0.790,0.824,0.792,0.784,0.798,0.790,0.800,0.793,(5.8165)+(-0.0479)Asn+(-0.0110)Arg+(-0.0004)Pro+(0.0126)Orn+(0.0479)Ile+(-0.1539)Trp;0.790,0.818,0.717,0.692,0.680,0.836,0.774,0.746,(1.3371)+(0.0290)Ser+(-0.0701)Cit+(-0.0378)Val+(-0.0199)Lys+(0.1797)Ile+(-0.0293)Leu;0.790,0.818,0.805,0.799,0.797,0.844,0.810,0.813,(4.4531)+(-0.0608)Asn+(0.0121)Gln+(-0.1359)His+(-0.0380)Cit+(0.0027)Val+(0.0010)Lys;0.790,0.817,0.726,0.707,0.731,0.826,0.695,0.740,(4.2092)+(0.0380)Ser+(-0.1229)His+(-0.0313)Cit+(0.0085)Pro+(-0.0145)Tyr+(-0.0013)Lys;0.790,0.814,0.715,0.703,0.668,0.824,0.769,0.741,(0.5845)+(0.0251)Ser+(-0.0412)Arg+(-0.0033)Pro+(-0.0583)Val+(0.0201)Orn+(0.1670)Ile;0.790,0.830,0.765,0.771,0.771,0.808,0.705,0.764,(-2.3178)+(0.0480)Ser+(-0.0042)Ala+(-0.0792)Cit+(-0.0047)Arg+(-0.3214)Met+(0.1222)Phe;0.790,0.824,0.806,0.801,0.794,0.851,0.812,0.814,(3.9798)+(0.0112)Gln+(-0.1434)His+(-0.0017)Ala+(0.0090)Tyr+(0.0057)Val+(-0.1136)Met;0.790,0.824,0.804,0.821,0.783,0.820,0.789,0.803,(4.8043)+(0.0029)Gln+(-0.0069)Ala+(0.0094)Pro+(-0.0120)Tyr+(0.0167)Orn+(-0.1416)Trp;0.790,0.820,0.762,0.746,0.764,0.839,0.743,0.773,(5.1626)+(0.0462)Ser+(-0.0546)Asn+(-0.0035)Gly+(-0.1091)His+(-0.0238)Cit+(-0.0018)Tyr;0.790,0.818,0.767,0.759,0.759,0.819,0.770,0.777,(4.5183)+(-0.0017)Gly+(0.0074)Gln+(-0.1476)His+(0.0086)Thr+(-0.0237)Tyr+(0.0241)Orn;0.790,0.818,0.806,0.803,0.797,0.844,0.807,0.813,(4.5373)+(-0.0559)Asn+(0.0122)Gln+(-0.1336)His+(-0.0383)Cit+(-0.0088)Tyr+(0.0039)Val;0.790,0.817,0.764,0.768,0.701,0.826,0.843,0.784,(5.5896)+(-0.1039)Asn+(0.0001)Pro+(-0.0252)Tyr+(-0.0474)Val+(0.1776)Ile+(-0.01

87)Leu;0.790,0.817,0.753,0.728,0.763,0.842,0.734,0.767,(6.1658)+(0.00
47)Gly+(-0.1076)His+(-0.0080)Ala+(-0.0852)Cit+(0.0101)Pro+(0.0550)Orn
;0.790,0.817,0.775,0.762,0.770,0.826,0.779,0.784,(3.6096)+(0.0010)Gly
+(0.0110)Gln+(-0.1589)His+(-0.0190)Arg+(0.0026)Pro+(0.0115)Leu;0.790,
0.833,0.719,0.711,0.721,0.774,0.696,0.726,(-4.5500)+(0.0541)Ser+(-0.0
190)Arg+(-0.0172)Tyr+(-0.3955
)Met+(0.0553)Ile+(0.0973)Phe;0.790,0.819,0.756,0.749,0.751,0.801,0.75
1,0.763,(4.7259)+(-0.0464)Asn+(0.0061)Gly+(-0.1283)His+(-0.0075)Arg+(
-0.0068)Val+(0.1010)Phe;0.790,0.816,0.727,0.692,0.728,0.806,0.763,0.7
47,(5.5435)+(-0.1395)His+(0.0124)Thr+(0.0014)Pro+(-0.0249)Val+(0.0277
)Orn+(0.0457)Leu;0.790,0.829,0.796,0.801,0.798,0.816,0.764,0.795,(4.4
172)+(0.0420)Ser+(-0.0081)Gly+(-0.0159)Arg+(-0.0040)Tyr+(-0.0005)Lys+
(-0.1428)Trp;0.790,0.823,0.726,0.691,0.726,0.795,0.768,0.745,(3.7961)
+(0.0058)Gly+(-0.1456)His+(-0.0097)Arg+(-0.0052)Lys+(0.0374)Ile+(0.06
36)Phe;0.790,0.823,0.744,0.756,0.666,0.833,0.813,0.767,(0.6767)+(0.02
07)Ser+(-0.0106)Ala+(-0.0394)Tyr+(0.0036)Orn+(0.1717)Ile+(-0.0822)Leu
;0.790,0.817,0.784,0.789,0.775,0.834,0.752,0.788,(4.8313)+(-0.0014)Gl
y+(0.0103)Gln+(-0.1467)His+(0.0165)Thr+(-0.0237)Arg+(-0.0167)Tyr;0.79
0,0.825,0.751,0.731,0.767,0.840,0.707,0.761,(4.2273)+(0.0445)Ser+(-0.
1200)His+(-0.0296)Cit+(-0.0029)Arg+(0.0095)Val+(-0.1177)Met;0.790,0.8
23,0.762,0.747,0.784,0.824,0.712,0.767,(7.0688)+(-0.1107)His+(0.0290)
Thr+(-0.0349)Cit+(0.0076)Pro+(0.0023)Val+(-0.1808)Met;0.790,0.822,0.7
99,0.791,0.796,0.845,0.795,0.807,(3.9359)+(0.0118)Gln+(-0.1334)His+(-
0.0368)Cit+(0.0073)Pro+(0.0042)Val+(-0.1352)Met;0.790,0.827,0.816,0.8
16,0.822,0.836,0.789,0.816,(9.0077)+(-0.0650)His+(-0.0003)Ala+(-0.035
8)Cit+(0.0071)Arg+(-0.0080)Met+(-0.0993)Trp;0.790,0.823,0.744,0.746,0
.654,0.842,0.854,0.774,(-2.2026)+(0.0238)Ser+(-0.0140)Ala+(-0.0107)Or
n+(0.1765)Ile+(-0.0952)Leu+(0.0533)Phe;0.790,0.821,0.748,0.718,0.762,

0.789,0.766,0.759,(5.2756)+(-0.0635)Asn+(-0.1383)His+(0.0223)Thr+(-0.0386)Cit+(-0.0004)Pro+(0.0811)Phe;0.790,0.826,0.790,0.782,0.789,0.795,0.811,0.794,(5.5832)+(-0.0538)Asn+(0.0014)Gly+(-0.0005)Pro+(-0.0022)Lys+(0.0530)Ile+(-0.1535)Trp;0.790,0.824,0.764,0.786,0.711,0.779,0.804,0.770,(2.2847)+(-0.0877)Asn+(-0.0699)Tyr+(-0.0007)Lys+(0.1564)Ile+(-0.0954)Leu+(0.0961)Phe;0.790,0.820,0.771,0.747,0.782,0.842,0.762,0.783,(4.3211)+(0.0087)Gln+(-0.1386)His+(-0.0676)Cit+(0.0023)Pro+(0.0426)Orn+(-0.0069)Lys;0.790,0.818,0.798,0.794,0.790,0.836,0.797,0.804,(4.2344)+(-0.0565)Asn+(0.0125)Gln+(-0.1438)His+(-0.0183)Arg+(0.0044)Pro+(0.0056)Lys;0.790,0.814,0.773,0.761,0.763,0.823,0.787,0.784,(3.9099)+(0.0002)Gly+(0.0093)Gln+(-0.1532)His+(0.0033)Pro+(0.0020)Val+(-0.0024)Lys;0.790,0.827,0.789,0.790,0.786,0.798,0.790,0.791,(5.5901)+(-0.0111)Tyr+(-0.0266)Val+(0.0262)Orn+(-0.0040)Lys+(0.0503)Leu+(-0.1437)Trp;0.790,0.824,0.819,0.826,0.814,0.822,0.807,0.818,(6.7682)+(-0.0048)Ala+(0.0121)Pro+(0.0170)Tyr+(0.0003)Val+(-0.1269)Met+(-0.1289)Trp;0.789,0.826,0.781,0.764,0.788,0.796,0.802,0.788,(4.7688)+(-0.1085)His+(-0.0243)Cit+(0.0078)Pro+(-0.0065)Val+(-0.1903)Met+(0.1234)Phe;0.789,0.825,0.741,0.721,0.717,0.828,0.781,0.762,(-1.7940)+(0.0467)Ser+(-0.0004)Gln+(-0.0077)Ala+(0.0076)Tyr+(-0.3210)Met+(0.0803)Ile;0.789,0.822,0.745,0.755,0.696,0.819,0.765,0.759,(1.2770)+(0.0340)Ser+(-0.1367)Asn+(0.0019)Gln+(-0.0394)Tyr+(0.1467)Ile+(-0.0737)Leu;0.789,0.827,0.763,0.718,0.782,0.829,0.794,0.781,(5.9233)+(-0.1106)His+(-0.0633)Cit+(0.0091)Arg+(-0.1511)Met+(0.0385)Orn+(0.0532)Ile;0.789,0.820,0.756,0.749,0.671,0.836,0.893,0.787,(1.4308)+(-0.0019)Gly+(-0.0116)Ala+(-0.0558)Val+(0.0120)Orn+(0.1667)Ile+(0.0329)Phe;0.789,0.819,0.741,0.730,0.662,0.833,0.869,0.774,(3.1873)+(-0.0027)Gln+(-0.0114)Ala+(0.0045)Pro+(-0.0546)Val+(0.0171)Orn+(0.1691)Ile;0.789,0.824,0.787,0.784,0.728,0.862,0.864,0.809,(0.6467)+(0.0025)Gln+(-0.0142)Ala+(-0.1046)Cit+(0.1882)Ile+(-

0.0972)Leu+(0.0635)Phe;0.789,0.824,0.751,0.745,0.671,0.851,0.857,0.781,(-0.6026)+(0.0342)Ser+(-0.0229)Thr+(-0.0112)Ala+(0.0085)Orn+(0.1830)Ile+(-0.0893)Leu;0.789,0.823,0.799,0.792,0.792,0.841,0.802,0.807,(3.6018)+(0.0125)Gln+(-0.1490)His+(-0.0138)Arg+(-0.1339)Met+(0.0046)Lys+(0.0185)Leu;0.789,0.819,0.779,0.787,0.711,0.840,0.859,0.799,(4.4929)+(-0.1422)Asn+(0.0045)Gln+(-0.0253)Tyr+(-0.0535)Val+(0.0012)Lys+(0.1619)Ile;0.789,0.817,0.775,0.769,0.772,0.830,0.755,0.781,(4.1735)+(0.0102)Gln+(-0.1559)His+(0.0120)Thr+(-0.0240)Arg+(0.0031)Pro+(0.0009)Val;0.789,0.817,0.772,0.764,0.722,0.841,0.850,0.794,(5.6327)+(-0.1031)Asn+(-0.0494)Cit+(-0.0011)Pro+(-0.0467)Val+(0.1795)Ile+(-0.0205)Leu;0.789,0.816,0.760,0.762,0.696,0.827,0.838,0.781,(5.4104)+(-0.1189)Asn+(0.0023)Gly+(0.0007)Pro+(-0.0217)Tyr+(-0.0538)Val+(0.1654)Ile;0.789,0.832,0.782,0.780,0.787,0.798,0.765,0.782,(3.8241)+(0.0428)Ser+(-0.0080)Gly+(-0.0167)Arg+(-0.0104)Tyr+(0.0125)Leu+(-0.1529)Trp;0.789,0.827,0.821,0.840,0.817,0.820,0.783,0.815,(4.9020)+(0.0063)Gln+(-0.0091)Arg+(0.0094)Pro+(-0.0009)Val+(-0.1528)Met+(-0.1330)Trp;0.789,0.827,0.839,0.852,0.831,0.834,0.825,0.836,(4.8744)+(-0.0499)Asn+(0.0073)Gln+(-0.0023)Ala+(-0.1040)Met+(0.0154)Leu+(-0.1386)Trp;0.789,0.825,0.791,0.804,0.796,0.793,0.747,0.785,(6.8485)+(-0.0811)Asn+(0.0179)Thr+(0.0045)Pro+(-0.0171)Tyr+(0.0073)Leu+(-0.1444)Trp;0.789,0.823,0.787,0.784,0.734,0.853,0.854,0.806,(1.8853)+(-0.0131)Ala+(-0.0889)Cit+(-0.0104)Arg+(0.1861)Ile+(-0.0977)Leu+(0.0711)Phe;0.789,0.823,0.797,0.800,0.786,0.810,0.802,0.799,(5.6407)+(-0.0016)Gly+(0.0105)Thr+(-0.0078)Ala+(0.0084)Pro+(0.0109)Leu+(-0.1549)Trp;0.789,0.823,0.754,0.740,0.751,0.860,0.721,0.768,(3.5944)+(0.0410)Ser+(-0.1891)Asn+(-0.0892)Cit+(-0.0462)Val+(0.0591)Orn+(0.0642)Leu;0.789,0.823,0.755,0.730,0.782,0.812,0.723,0.762,(6.9059)+(-0.1257)His+(0.0356)Thr+(-0.0339)Cit+(-0.0033)Arg+(-0.2068)Met+(0.0256)Leu;0.789,0.817,0.783,0.779,0.760,0.837,0.802,0.794,(4.209

5)+(0.0091)Gln+(-0.1426)His+(-0.0047)Ala+(0.0081)Pro+(-0.0143)Tyr+(0.0038)Val;0.789,0.827,0.828,0.846,0.820,0.815,0.809,0.822,(5.3844)+(-0.0833)Asn+(-0.0009)Gly+(0.0064)Gln+(0.0058)Pro+(-0.0109)Tyr+(-0.1376)Trp;0.789,0.819,0.772,0.752,0.753,0.819,0.830,0.788,(5.2523)+(-0.1280)His+(-0.0038)Ala+(-0.0073)Arg+(-0.0190)Val+(0.0318)Leu+(0.0825)Phe;0.789,0.824,0.741,0.746,0.694,0.822,0.770,0.758,(1.3967)+(0.0385)Ser+(-0.1172)Asn+(-0.0063)Thr+(-0.0351)Tyr+(0.1509)Ile+(-0.0749)Leu;0.789,0.821,0.745,0.711,0.756,0.812,0.766,0.761,(6.3366)+(-0.0149)Asn+(-0.1149)His+(-0.0618)Cit+(-0.0347)Tyr+(0.0460)Orn+(0.0447)Ile;0.789,0.818,0.721,0.719,0.668,0.821,0.761,0.742,(1.6041)+(0.0209)Ser+(-0.0710)Cit+(-0.0422)Tyr+(-0.0330)Val+(0.1815)Ile+(-0.0423)Leu;0.789,0.824,0.803,0.810,0.754,0.865,0.843,0.818,(2.2547)+(0.0059)Gln+(-0.0075)Ala+(-0.0200)Arg+(-0.2005)Met+(0.1875)Ile+(-0.0859)Leu;0.789,0.822,0.820,0.832,0.818,0.826,0.786,0.816,(7.0109)+(-0.0570)Asn+(0.0001)Gly+(-0.0030)Ala+(-0.0027)Val+(0.0301)Orn+(-0.1246)Trp;0.789,0.819,0.761,0.748,0.761,0.845,0.733,0.772,(5.0931)+(0.0414)Ser+(-0.0602)Asn+(-0.1085)His+(-0.0018)Ala+(-0.0298)Cit+(0.0040)Lys;0.789,0.818,0.724,0.699,0.661,0.823,0.849,0.758,(1.0306)+(0.0407)Ser+(-0.0095)Gly+(-0.0034)Pro+(-0.0510)Val+(-0.0226)Lys+(0.1656)Ile;0.789,0.817,0.744,0.731,0.745,0.847,0.704,0.757,(4.7558)+(0.0339)Ser+(-0.1226)His+(0.0085)Thr+(-0.0025)Ala+(-0.0352)Cit+(-0.0033)Tyr;0.789,0.813,0.755,0.748,0.673,0.838,0.883,0.785,(3.1811)+(-0.0010)Gly+(-0.0014)Gln+(0.0013)Thr+(-0.0104)Ala+(-0.0534)Val+(0.1739)Ile;0.789,0.829,0.802,0.795,0.783,0.819,0.844,0.810,(5.6320)+(-0.0076)Ala+(-0.0087)Arg+(-0.0002)Tyr+(-0.0026)Lys+(0.0698)Ile+(-0.1504)Trp;0.789,0.827,0.789,0.783,0.785,0.789,0.813,0.793,(3.8737)+(0.0029)Gln+(-0.0027)Pro+(0.0040)Orn+(-0.0105)Lys+(0.0572)Ile+(-0.1654)Trp;0.789,0.826,0.752,0.730,0.766,0.843,0.716,0.764,(3.9633)+(0.0453)Ser+(-0.1261)His+(-0.0076)Arg+(0.0139)Tyr+(0.0080)Val+(-0.13

55)Met;0.789,0.824,0.765,0.738,0.778,0.815,0.774,0.776,(5.2745)+(-0.0506)Asn+(-0.1115)His+(-0.0636)Cit+(-0.0111)Val+(0.0488)Orn+(0.0871)Phe;0.789,0.820,0.771,0.749,0.783,0.842,0.750,0.781,(4.3300)+(0.0014)Gly+(0.0084)Gln+(-0.1374)His+(-0.0700)Cit+(0.0445)Orn+(-0.0065)Lys;0.789,0.819,0.815,0.811,0.802,0.854,0.823,0.823,(4.5909)+(-0.0522)Asn+(0.0122)Gln+(-0.1328)His+(-0.0031)Ala+(-0.0412)Cit+(0.0053)Val;0.789,0.819,0.746,0.747,0.662,0.832,0.856,0.774,(2.9536)+(-0.0105)Ala+(0.0056)Pro+(-0.0335)Tyr+(-0.0512)Val+(0.0169)Orn+(0.1632)Ile;0.789,0.818,0.793,0.795,0.783,0.853,0.766,0.799,(4.7584)+(0.0101)Gln+(-0.1420)His+(0.0143)Thr+(-0.0027)Ala+(-0.0259)Cit+(-0.0185)Arg;0.789,0.817,0.780,0.768,0.775,0.831,0.784,0.790,(3.6728)+(0.0010)Gly+(0.0111)Gln+(-0.1591)His+(-0.0182)Arg+(-0.0002)Lys+(0.0132)Leu;0.789,0.817,0.741,0.720,0.741,0.791,0.758,0.753,(4.2466)+(-0.0469)Asn+(0.0061)Gly+(-0.1391)His+(0.0019)Pro+(0.0000)Lys+(0.0836)Phe;0.789,0.816,0.725,0.702,0.739,0.818,0.689,0.737,(4.1720)+(0.0363)Ser+(-0.1352)His+(0.0068)Thr+(-0.0361)Cit+(-0.0153)Tyr+(0.0070)Val;0.789,0.819,0.783,0.784,0.764,0.838,0.778,0.791,(4.6290)+(0.0082)Gln+(-0.1433)His+(0.0104)Thr+(-0.0023)Ala+(-0.0098)Tyr+(-0.0014)Lys;0.789,0.816,0.763,0.755,0.686,0.844,0.887,0.793,(3.4955)+(-0.0007)Gly+(0.0001)Gln+(-0.0097)Ala+(-0.0508)Val+(-0.0105)Lys+(0.1754)Ile;0.789,0.824,0.741,0.742,0.746,0.779,0.704,0.743,(-2.9874)+(0.0530)Ser+(-0.0072)Gly+(0.0176)Thr+(-0.3958)Met+(-0.0129)Lys+(0.1142)Phe;0.789,0.825,0.748,0.737,0.744,0.785,0.760,0.756,(4.8965)+(-0.1349)His+(-0.0105)Arg+(-0.0471)Tyr+(0.0311)Orn+(0.0014)Lys+(0.0915)Phe;0.789,0.826,0.726,0.746,0.721,0.757,0.660,0.721,(-0.0439)+(0.0488)Ser+(-0.1615)Asn+(-0.0782)Cit+(0.0062)Pro+(-0.0697)Tyr+(0.0988)Phe;0.789,0.825,0.754,0.732,0.767,0.837,0.726,0.766,(4.2104)+(0.0475)Ser+(-0.0027)Gly+(-0.1189)His+(-0.0277)Cit+(0.0091)Val+(-0.1200)Met;0.789,0.825,0.745,0.725,0.768,0.814,0.697,0.751,(6.4678)+(0.0030)Gly+(

-0.1345)His+(0.0342)Thr+(-0.0097)Arg+(-0.2033)Met+(0.0261)Leu;0.789,0.824,0.766,0.743,0.763,0.815,0.796,0.779,(4.9074)+(-0.1335)His+(-0.0049)Ala+(-0.0106)Arg+(0.0282)Orn+(-0.0010)Leu+(0.0751)Phe;0.789,0.822,0.802,0.815,0.804,0.795,0.769,0.796,(6.2509)+(0.0004)Gly+(0.0105)Pro+(-0.0033)Val+(-0.1560)Met+(0.0099)Lys+(-0.1338)Trp;0.789,0.821,0.729,0.736,0.703,0.826,0.695,0.740,(1.3171)+(0.0294)Ser+(-0.0612)Cit+(-0.0239)Arg+(-0.0436)Tyr+(0.1714)Ile+(-0.0869)Leu;0.789,0.820,0.781,0.775,0.767,0.807,0.807,0.789,(5.7582)+(-0.0219)Asn+(-0.1159)His+(-0.0033)Ala+(-0.0335)Cit+(-0.0324)Tyr+(0.1068)Phe;0.789,0.820,0.785,0.790,0.723,0.848,0.858,0.805,(4.1356)+(-0.1409)Asn+(0.0056)Gln+(-0.0183)Arg+(-0.0569)Val+(0.0025)Lys+(0.1650)Ile;0.789,0.819,0.735,0.730,0.729,0.774,0.734,0.742,(4.3994)+(0.0047)Gly+(-0.1367)His+(-0.0106)Arg+(0.0049)Pro+(-0.0411)Tyr+(0.1020)Phe;0.789,0.826,0.779,0.766,0.778,0.789,0.805,0.785,(4.5614)+(-0.1276)His+(-0.0205)Tyr+(-0.1734)Met+(0.0083)Lys+(0.0014)Leu+(0.1187)Phe;0.789

,0.823,0.813,0.808,0.808,0.852,0.807,0.819,(4.2651)+(-0.0306)Asn+(0.0126)Gln+(-0.1327)His+(-0.0378)Cit+(0.0055)Val+(-0.0849)Met;0.789,0.822,0.754,0.748,0.681,0.836,0.862,0.782,(3.6176)+(-0.0090)Ala+(-0.0247)Tyr+(-0.0502)Val+(0.0255)Orn+(-0.0116)Lys+(0.1711)Ile;0.789,0.819,0.774,0.750,0.785,0.843,0.766,0.786,(4.3312)+(0.0089)Gln+(-0.1395)His+(-0.0682)Cit+(0.0013)Val+(0.0430)Orn+(-0.0071)Lys;0.789,0.819,0.739,0.714,0.731,0.821,0.761,0.757,(5.1344)+(0.0051)Gly+(-0.1021)His+(-0.0446)Cit+(-0.0066)Arg+(0.1186)Ile+(-0.0481)Leu;0.789,0.818,0.763,0.741,0.747,0.819,0.810,0.780,(6.0783)+(-0.0109)Asn+(-0.1017)His+(-0.0098)Arg+(-0.0026)Pro+(0.1196)Ile+(-0.0505)Leu;0.789,0.818,0.743,0.726,0.743,0.830,0.723,0.756,(4.7879)+(0.0395)Ser+(-0.0045)Gly+(-0.1250)His+(0.0087)Thr+(-0.0267)Cit+(-0.0130)Tyr;0.789,0.818,0.765,0.770,0.701,0.824,0.842,0.784,(5.5165)+(-0.1111)Asn+(-0.0273)Tyr+(-0.0478)Val+(0.0039)

Lys+(0.1785)Ile+(-0.0203)Leu;0.789,0.815,0.776,0.770,0.775,0.833,0.751,0.782,(4.3033)+(0.0102)Gln+(-0.1501)His+(0.0119)Thr+(-0.0234)Cit+(-0.0203)Arg+(0.0035)Pro;0.789,0.826,0.792,0.793,0.786,0.788,0.808,0.794,(5.6903)+(-0.0005)Gly+(0.0054)Pro+(-0.0245)Val+(-0.0021)Lys+(0.0466)Leu+(-0.1499)Trp;0.789,0.824,0.756,0.718,0.761,0.820,0.801,0.775,(5.5316)+(0.0299)Asn+(-0.1233)His+(-0.1798)Met+(0.0224)Orn+(0.0006)Lys+(0.0593)Ile;0.789,0.825,0.791,0.795,0.784,0.793,0.796,0.792,(5.6844)+(-0.0015)Gly+(-0.0143)Tyr+(-0.0262)Val+(0.0256)Orn+(0.0475)Leu+(-0.1451)Trp;0.789,0.825,0.785,0.761,0.796,0.807,0.807,0.793,(4.5790)+(0.0154)Asn+(-0.1207)His+(-0.0319)Cit+(0.0071)Arg+(-0.1923)Met+(0.1193)Phe;0.789,0.829,0.720,0.705,0.708,0.761,0.756,0.733,(-4.5488)+(0.0596)Ser+(-0.0062)Gly+(-0.0224)Tyr+(-0.4000)Met+(0.0532)Ile+(0.0898)Phe;0.789,0.826,0.756,0.780,0.742,0.775,0.708,0.751,(-2.8526)+(0.0511)Ser+(-0.1078)Asn+(0.0023)Gln+(-0.0247)Tyr+(-0.2687)Met+(0.1144)Phe;0.789,0.823,0.750,0.719,0.754,0.811,0.777,0.765,(5.3257)+(0.0058)Gly+(-0.1203)His+(0.0023)Pro+(-0.1779)Met+(0.0046)Lys+(0.0629)Ile;0.789,0.823,0.792,0.772,0.798,0.817,0.812,0.800,(4.9204)+(0.0162)Asn+(-0.1162)His+(-0.0023)Ala+(-0.0290)Cit+(-0.1683)Met+(0.1192)Phe;0.789,0.822,0.776,0.758,0.778,0.795,0.801,0.783,(4.6037)+(0.0184)Asn+(-0.1256)His+(-0.0153)Tyr+(-0.1771)Met+(0.0052)Leu+(0.1167)Phe;0.789,0.820,0.780,0.787,0.723,0.841,0.838,0.797,(4.4607)+(-0.0664)Asn+(-0.0086)Ala+(-0.0361)Tyr+(0.0193)Orn+(0.1641)Ile+(-0.0817)Leu;0.789,0.825,0.800,0.800,0.790,0.822,0.802,0.804,(6.1215)+(-0.0046)Ala+(-0.0142)Arg+(-0.0274)Val+(0.0321)Orn+(0.0538)Leu+(-0.1399)Trp;0.789,0.820,0.806,0.804,0.792,0.855,0.807,0.814,(4.4591)+(0.0112)Gln+(-0.1206)His+(-0.0038)Ala+(-0.0379)Cit+(0.0113)Pro+(-0.1143)Met;0.789,0.816,0.784,0.783,0.759,0.839,0.799,0.795,(4.4101)+(-0.0003)Gly+(0.0090)Gln+(-0.1375)His+(-0.0044)Ala+(0.0088)Pro+(-0.0124)Tyr;0.789,0.826,0.744,0.730,0.723,0.831,0.763,0.762,

(-1.3252)+(0.0464)Ser+(-0.0074)Ala+(-0.0134)Arg+(-0.2892)Met+(0.0031)Orn+(0.0790)Ile;0.789,0.823,0.755,0.730,0.780,0.813,0.726,0.762,(6.8482)+(-0.1257)His+(0.0350)Thr+(-0.0359)Cit+(-0.0036)Tyr+(-0.2041)Met+(0.0261)Leu;0.789,0.822,0.828,0.835,0.835,0.831,0.793,0.824,(8.0762)+(-0.0468)Asn+(-0.0019)Ala+(-0.0609)Cit+(0.0052)Arg+(0.0068)Lys+(-0.1354)Trp;0.789,0.829,0.768,0.779,0.750,0.797,0.755,0.770,(-2.7080)+(0.0500)Ser+(-0.0064)Gly+(-0.0145)Val+(-0.3493)Met+(0.0168)Orn+(0.1223)Phe;0.789,0.828,0.807,0.799,0.820,0.824,0.791,0.809,(8.4623)+(-0.0792)His+(-0.0302)Cit+(-0.0024)Arg+(0.0142)Tyr+(0.0097)Lys+(-0.1125)Trp;0.789,0.825,0.740,0.715,0.743,0.798,0.754,0.753,(4.1414)+(-0.0458)Asn+(0.0055)Gly+(-0.1399)His+(0.0217)Orn+(-0.0019)Lys+(0.0777)Phe;0.789,0.824,0.784,0.786,0.781,0.784,0.783,0.783,(4.0635)+(0.0038)Gln+(-0.0201)Arg+(-0.0195)Tyr+(0.0081)Orn+(0.0513)Ile+(-0.1625)Trp;0.789,0.821,0.755,0.753,0.669,0.833,0.884,0.785,(0.9699)+(-0.0115)Ala+(-0.0429)Val+(0.0064)Orn+(0.1916)Ile+(-0.0387)Leu+(0.0424)Phe;0.789,0.818,0.771,0.762,0.763,0.819,0.776,0.780,(4.2263)+(-0.0008)Gly+(0.0083)Gln+(-0.1479)His+(-0.0193)Tyr+(0.0015)Val+(0.0246)Orn;0.789,0.824,0.781,0.760,0.793,0.799,0.800,0.788,(4.4607)+(0.0157)Asn+(-0.1251)His+(-0.0259)Cit+(-0.2040)Met+(0.0069)Lys+(0.1172)Phe;0.789,0.827,0.837,0.833,0.851,0.847,0.808,0.835,(7.5962)+(-0.0021)Ala+(-0.0630)Cit+(0.0073)Arg+(0.0280)Tyr+(-0.0858)Met+(-0.1369)Trp;0.789,0.823,0.815,0.817,0.799,0.829,0.830,0.819,(7.0184)+(-0.0568)Asn+(0.0017)Gly+(-0.0030)Ala+(-0.0253)Val+(0.0562)Leu+(-0.1303)Trp;0.789,0.817,0.735,0.716,0.744,0.822,0.702,0.746,(4.2370)+(0.0400)Ser+(-0.1348)His+(-0.0139)Arg+(-0.0083)Tyr+(0.0062)Val+(0.0004)Lys;0.789,0.828,0.817,0.830,0.818,0.806,0.789,0.811,(4.5527)+(0.0062)Gln+(-0.0089)Arg+(0.0077)Pro+(-0.1670)Met+(0.0109)Leu+(-0.1411)Trp;0.789,0.819,0.759,0.728,0.752,0.830,0.807,0.779,(6.2611)+(-0.1218)His+(-0.0037)Ala+(-0.0229)Val+(0.0375)Orn+(-0.0020)Lys+(0.0

471)Leu;0.789,0.816,0.750,0.743,0.667,0.833,0.882,0.781,(3.2979)+(-0.0010)Gly+(-0.0016)Gln+(-0.0115)Ala+(0.0056)Pro+(-0.0535)Val+(0.1702)Ile;0.789,0.826,0.734,0.691,0.763,0.809,0.737,0.750,(4.8372)+(-0.1396)His+(0.0171)Thr+(-0.0704)Cit+(0.0411)Orn+(-0.0148)Lys+(0.0778)Phe;0.789,0.824,0.718,0.680,0.724,0.794,0.751,0.738,(3.5653)+(0.0055)Gly+(-0.1502)His+(-0.0142)Arg+(0.0157)Orn+(0.0308)Ile+(0.0569)Phe;0.789,0.824,0.761,0.736,0.794,0.835,0.704,0.767,(6.9440)+(-0.1121)His+(0.0234)Thr+(-0.0655)Cit+(-0.1480)Met+(0.0469)Orn+(-0.0004)Lys;0.789,0.822,0.802,0.800,0.821,0.805,0.764,0.798,(7.0784)+(-0.0732)Cit+(0.0013)Arg+(0.0082)Pro+(-0.0047)Tyr+(0.0022)Val+(-0.1522)Trp;0.789,0.821,0.739,0.705,0.753,0.800,0.753,0.753,(5.0100)+(-0.1455)His+(0.0202)Thr+(-0.0406)Cit+(-0.0000)Pro+(-0.0103)Lys+(0.0854)Phe;0.789,0.820,0.738,0.703,0.743,0.803,0.771,0.755,(6.1829)+(-0.0295)Asn+(-0.1344)His+(0.0199)Thr+(-0.0105)Arg+(-0.0039)Lys+(0.0458)Ile;0.789,0.819,0.747,0.762,0.702,0.791,0.767,0.755,(1.2317)+(-0.0866)Cit+(-0.0031)Pro+(-0.0767)Tyr+(0.1792)Ile+(-0.1038)Leu+(0.1009)Phe;0.789,0.815,0.752,0.741,0.741,0.807,0.769,0.764,(3.9652)+(0.0079)Gln+(-0.1578)His+(0.0102)Thr+(0.0029)Pro+(-0.0270)Tyr+(0.0147)Leu;0.789,0.818,0.801,0.793,0.794,0.841,0.807,0.808,(4.4445)+(-0.0630)Asn+(0.0120)Gln+(-0.1340)His+(-0.0380)Cit+(0.0044)Pro+(0.0011)Val;0.789,0.827,0.786,0.801,0.793,0.816,0.710,0.780,(3.4479)+(0.0293)Ser+(0.0017)Gln+(-0.0195)Arg+(-0.0032)Tyr+(0.0011)Val+(-0.1479)Trp;0.789,0.823,0.785,0.771,0.783,0.806,0.814,0.793,(4.9815)+(-0.1202)His+(-0.0019)Ala+(-0.0147)Tyr+(-0.1500)Met+(0.0056)Leu+(0.1148)Phe;0.789,0.825,0.772,0.757,0.774,0.786,0.798,0.779,(4.6535)+(-0.1181)His+(0.0070)Pro+(-0.0223)Tyr+(-0.1720)Met+(0.0013)Leu+(0.1169)Phe;0.789,0.822,0.779,0.755,0.792,0.803,0.800,0.788,(4.6596)+(0.0215)Asn+(-0.1221)His+(-0.0264)Cit+(-0.1940)Met+(0.0053)Leu+(0.1136)Phe;0.789,0.820,0.789,0.786,0.744,0.856,0.839,0.807,(3.5247)+(-0.0104)Asn+(0

.0021)Gly+(-0.0078)Ala+(-0.1882)Met+(0.1781)Ile+(-0.0791)Leu;0.789,0.825,0.779,0.754,0.794,0.796,0.801,0.786,(4.7301)+(-0.1151)His+(-0.0263)Cit+(0.0061)Pro+(-0.1918)Met+(0.0015)Leu+(0.1119)Phe;0.789,0.822,0.822,0.825,0.833,0.843,0.771,0.818,(7.0948)+(0.0026)Gly+(-0.0032)Ala+(-0.0707)Cit+(0.0032)Arg+(0.0159)Tyr+(-0.1430)Trp;0.789,0.817,0.749,0.731,0.742,0.808,0.770,0.763,(7.5095)+(-0.0736)Asn+(-0.1187)His+(0.0277)Thr+(-0.0175)Tyr+(-0.0278)Val+(0.0571)Leu;0.789,0.826,0.813,0.819,0.802,0.817,0.816,0.813,(6.6995)+(-0.0538)Asn+(-0.0062)Ala+(0.0099)Pro+(0.0045)Lys+(0.0085)Leu+(-0.1389)Trp;0.789,0.825,0.796,0.796,0.815,0.811,0.741,0.791,(6.8305)+(0.0024)Gly+(-0.0753)Cit+(0.0004)Arg+(0.0088)Pro+(-0.0023)Tyr+(-0.1501)Trp;0.789,0.823,0.801,0.799,0.788,0.845,0.805,0.809,(3.9479)+(0.0109)Gln+(-0.1430)His+(-0.0015)Ala+(0.0054)Val+(-0.1124)Met+(0.0040)Lys;0.789,0.818,0.800,0.792,0.792,0.841,0.806,0.808,(4.4645)+(-0.0663)Asn+(0.0119)Gln+(-0.1331)His+(-0.0373)Cit+(0.0047)Pro+(0.0016)Lys;0.789,0.815,0.778,0.777,0.763,0.827,0.777,0.786,(4.6665)+(-0.0017)Gly+(0.0085)Gln+(-0.1458)His+(0.0113)Thr+(-0.0161)Tyr+(-0.0021)Lys;0.789,0.828,0.831,0.847,0.825,0.823,0.807,0.825,(5.3655)+(-0.0847)Asn+(-0.0013)Gly+(0.0060)Gln+(-0.0105)Tyr+(0.0200)Orn+(-0.1364)Trp;0.789,0.826,0.795,0.811,0.791,0.821,0.741,0.791,(6.5602)+(0.0161)Thr+(-0.0063)Ala+(-0.0180)Arg+(0.0105)Pro+(-0.0084)Tyr+(-0.1423)Trp;0.789,0.824,0.799,0.814,0.783,0.816,0.779,0.798,(5.8545)+(-0.0064)Ala+(0.0102)Pro+(-0.0097)Tyr+(-0.0025)Val+(0.0219)Orn+(-0.1335)Trp;0.789,0.819,0.771,0.761,0.764,0.822,0.773,0.780,(4.2100)+(0.0083)Gln+(-0.1477)His+(-0.0173)Tyr+(0.0020)Val+(0.0248)Orn+(-0.0022)Lys;0.789,0.818,0.775,0.767,0.767,0.823,0.778,0.784,(4.3644)+(-0.0009)Gly+(0.0083)Gln+(-0.1447)His+(-0.0170)Tyr+(0.0265)Orn+(-0.0017)Lys;0.789,0.815,0.791,0.787,0.773,0.838,0.803,0.800,(4.1770)+(-0.0000)Gly+(0.0096)Gln+(-0.1484)His+(-0.0029)Ala+(-0.0085)Tyr+(0.0053)Val;0.789,0.829,0.77

3,0.781,0.782,0.800,0.716,0.770,(3.0916)+(0.0307)Ser+(0.0012)Gln+(-0.0197)Arg+(-0.0072)Tyr+(0.0123)Leu+(-0.1557)Trp;0.789,0.827,0.796,0.776,0.799,0.825,0.821,0.805,(4.9370)+(-0.1145)His+(-0.0024)Ala+(-0.0355)Cit+(0.0081)Arg+(-0.1640)Met+(0.1189)Phe;0.789,0.829,0.820,0.809,0.834,0.842,0.803,0.822,(8.8195)+(-0.0673)His+(-0.0369)Cit+(0.0065)Arg+(0.0289)Tyr+(-0.0520)Met+(-0.1072)Trp;0.789,0.819,0.816,0.817,0.802,0.823,0.841,0.821,(7.1231)+(-0.0644)Asn+(-0.0030)Ala+(-0.0256)Val+(0.0058)Lys+(0.0533)Leu+(-0.1329)Trp;0.789,0.816,0.775,0.761,0.759,0.826,0.807,0.788,(4.1336)+(0.0091)Gln+(-0.1486)His+(-0.0105)Tyr+(-0.0144)Val+(-0.0038)Lys+(0.0382)Leu;0.789,0.826,0.836,0.849,0.833,0.824,0.816,0.831,(4.8342)+(-0.0516)Asn+(-0.0002)Gly+(0.0074)Gln+(-0.1184)Met+(0.0135)Leu+(-0.1399)Trp;0.789,0.822,0.730,0.701,0.734,0.796,0.753,0.746,(3.8180)+(0.0043)Gly+(-0.1481)His+(0.0222)Orn+(-0.0050)Lys+(-0.0009)Leu+(0.0753)Phe;0.789,0.822,0.768,0.764,0.744,0.794,0.812,0.778,(5.3729)+(-0.0247)Asn+(-0.1201)His+(-0.0049)Ala+(0.0085)Pro+(-0.0379)Tyr+(0.0985)Phe;0.789,0.819,0.762,0.738,0.748,0.823,0.810,0.780,(6.0627)+(-0.0168)Asn+(-0.0935)His+(-0.0386)Cit+(-0.0028)Arg+(0.1181)Ile+(-0.0506)Leu;0.789,0.816,0.728,0.710,0.738,0.823,0.688,0.740,(4.3521)+(0.0399)Ser+(-0.1221)His+(-0.0209)Cit+(-0.0124)Arg+(0.0090)Pro+(-0.0138)Tyr;0.789,0.815,0.772,0.740,0.756,0.841,0.842,0.795,(6.3492)+(-0.0049)Asn+(-0.1057)His+(-0.0088)Ala+(-0.0467)Cit+(0.0055)Pro+(0.0596)Ile;0.789,0.828,0.750,0.765,0.707,0.798,0.765,0.759,(0.5281)+(0.0511)Ser+(-0.2095)Asn+(-0.0446)Tyr+(-0.0432)Val+(0.0538)Leu+(0.1145)Phe;0.789,0.827,0.791,0.788,0.792,0.786,0.

798,0.791,(3.8681)+(-0.0007)Gly+(0.0038)Gln+(-0.0221)Arg+(0.0054)Orn+(0.0490)Ile+(-0.1708)Trp;0.789,0.826,0.799,0.812,0.796,0.819,0.754,0.795,(6.3450)+(0.0145)Thr+(-0.0067)Ala+(-0.0195)Arg+(0.0101)Pro+(0.0023)Lys+(-0.1468)Trp;0.789,0.818,0.747,0.751,0.659,0.829,0.862,0.775,(3

.1597)+(0.0020)Thr+(-0.0106)Ala+(0.0065)Pro+(-0.0316)Tyr+(-0.0505)Val+(0.1656)Ile;0.789,0.822,0.814,0.817,0.806,0.860,0.792,0.819,(4.6304)+(-0.0423)Asn+(0.0017)Gly+(0.0121)Gln+(-0.1229)His+(-0.0369)Cit+(-0.0646)Met;0.789,0.827,0.771,0.785,0.752,0.788,0.762,0.772,(-2.8499)+(0.0508)Ser+(-0.0059)Gly+(0.0006)Gln+(-0.0125)Val+(-0.3511)Met+(0.1252)Phe;0.789,0.818,0.770,0.749,0.757,0.805,0.825,0.784,(5.6927)+(-0.0483)Asn+(-0.1193)His+(-0.0033)Arg+(-0.0245)Val+(0.0360)Leu+(0.0834)Phe;0.789,0.824,0.764,0.748,0.774,0.830,0.735,0.772,(6.6789)+(-0.1231)His+(0.0236)Thr+(-0.0018)Ala+(0.0019)Val+(-0.1419)Met+(0.0293)Orn;0.789,0.819,0.768,0.737,0.747,0.835,0.844,0.791,(6.1039)+(-0.1182)His+(-0.0074)Ala+(-0.0041)Arg+(0.0043)Pro+(-0.0009)Lys+(0.0552)Ile;0.789,0.819,0.727,0.686,0.749,0.819,0.723,0.744,(5.1596)+(-0.0399)Asn+(0.0066)Gly+(-0.1221)His+(-0.0698)Cit+(0.0393)Orn+(0.0426)Ile;0.789,0.816,0.739,0.707,0.739,0.814,0.768,0.757,(5.7895)+(0.0019)Gly+(-0.1287)His+(-0.0233)Val+(0.0351)Orn+(-0.0031)Lys+(0.0455)Leu;0.789,0.820,0.763,0.748,0.767,0.839,0.739,0.773,(5.2328)+(0.0468)Ser+(-0.0498)Asn+(-0.0035)Gly+(-0.1097)His+(-0.0191)Cit+(-0.0062)Arg;0.789,0.813,0.771,0.758,0.755,0.822,0.803,0.785,(4.0781)+(-0.0002)Gly+(0.0088)Gln+(-0.1498)His+(-0.0132)Tyr+(-0.0143)Val+(0.0363)Leu;0.789,0.828,0.784,0.785,0.738,0.855,0.825,0.801,(3.4098)+(0.0127)Thr+(-0.0078)Ala+(-0.0093)Tyr+(-0.2238)Met+(0.1754)Ile+(-0.0771)Leu;0.789,0.824,0.761,0.751,0.772,0.819,0.721,0.766,(6.9754)+(-0.0083)Asn+(-0.1130)His+(0.0276)Thr+(0.0082)Pro+(-0.0059)Tyr+(-0.1611)Met;0.789,0.824,0.809,0.820,0.814,0.793,0.778,0.801,(6.8739)+(-0.0313)Asn+(-0.0067)Arg+(0.0094)Pro+(-0.1241)Met+(0.0112)Lys+(-0.1360)Trp;0.789,0.819,0.722,0.696,0.660,0.821,0.849,0.756,(0.8978)+(0.0420)Ser+(-0.0095)Gly+(-0.0035)Thr+(-0.0506)Val+(-0.0217)Lys+(0.1605)Ile;0.789,0.828,0.789,0.792,0.780,0.789,0.800,0.790,(5.7689)+(0.0062)Pro+(-0.0116)Tyr+(-0.0238)Val+(-0.0011)Lys+(0.0460)Leu+(-0

.1468)Trp;0.789,0.825,0.763,0.753,0.768,0.844,0.721,0.772,(4.8575)+(0.0423)Ser+(-0.0421)Asn+(-0.1055)His+(-0.0263)Cit+(-0.0903)Met+(0.0071)Lys;0.789,0.824,0.812,0.825,0.793,0.821,0.810,0.813,(5.0696)+(-0.0027)Gly+(0.0031)Gln+(0.0083)Thr+(-0.0073)Ala+(0.0090)Pro+(-0.1505)Trp;0.789,0.824,0.796,0.811,0.783,0.818,0.768,0.795,(5.9962)+(0.0109)Thr+(-0.0065)Ala+(0.0101)Pro+(-0.0104)Tyr+(-0.0011)Lys+(-0.1417)Trp;0.789,0.822,0.798,0.802,0.789,0.805,0.804,0.800,(5.5231)+(-0.0007)Gly+(-0.0076)Ala+(0.0087)Pro+(0.0164)Orn+(0.0083)Leu+(-0.1467)Trp;0.789,0.827,0.788,0.804,0.793,0.819,0.713,0.782,(3.5237)+(0.0291)Ser+(0.0017)Gln+(-0.0193)Arg+(-0.0021)Tyr+(-0.0003)Lys+(-0.1462)Trp;0.789,0.825,0.787,0.790,0.782,0.781,0.794,0.787,(4.0400)+(0.0041)Gln+(-0.0189)Arg+(0.0003)Pro+(-0.0181)Tyr+(0.0534)Ile+(-0.1634)Trp;0.789,0.821,0.777,0.764,0.757,0.810,0.828,0.790,(5.4296)+(-0.0386)Asn+(-0.1171)His+(-0.0054)Ala+(0.0081)Pro+(-0.0069)Val+(0.0915)Phe;0.789,0.820,0.740,0.705,0.750,0.811,0.763,0.757,(6.0961)+(-0.1194)His+(-0.0618)Cit+(-0.0005)Pro+(-0.0354)Tyr+(0.0454)Orn+(0.0460)Ile;0.789,0.824,0.780,0.760,0.752,0.872,0.825,0.802,(4.2489)+(-0.0123)Ala+(-0.1204)Cit+(0.0479)Orn+(-0.0122)Lys+(0.1662)Ile+(-0.0764)Leu;0.789,0.823,0.790,0.798,0.777,0.808,0.781,0.791,(5.5652)+(0.0105)Thr+(-0.0074)Ala+(0.0090)Pro+(-0.0127)Tyr+(0.0118)Leu+(-0.1510)Trp;0.789,0.822,0.750,0.724,0.768,0.810,0.736,0.760,(6.3711)+(0.0066)Asn+(-0.1360)His+(0.0329)Thr+(-0.2144)Met+(0.0010)Lys+(0.0253)Leu;0.789,0.818,0.778,0.774,0.775,0.833,0.756,0.784,(4.2266)+(0.0103)Gln+(-0.1571)His+(0.0127)Thr+(-0.0239)Arg+(0.0019)Val+(0.0004)Lys;0.789,0.817,0.718,0.694,0.733,0.783,0.706,0.729,(4.0110)+(0.0045)Gly+(-0.1573)His+(0.0176)Thr+(-0.0204)Arg+(0.0002)Pro+(0.0827)Phe;0.789,0.816,0.767,0.771,0.708,0.823,0.841,0.786,(5.8622)+(-0.1059)Asn+(-0.0122)Arg+(-0.0241)Tyr+(-0.0555)Val+(0.0054)Lys+(0.1677)Ile;0.789,0.832,0.737,0.733,0.773,0.789,0.634,0.732,(-2.9101)+(0.0482)Ser+

(-0.0959)Cit+(-0.0077)Arg+(-0.3643)Met+(0.0282)Orn+(0.1127)Phe;0.789,0.826,0.750,0.724,0.723,0.866,0.791,0.776,(0.4785)+(0.0363)Ser+(0.0009)Gln+(-0.0129)Ala+(-0.0994)Cit+(-0.0242)Lys+(0.0834)Ile;0.789,0.825,0.793,0.787,0.817,0.799,0.756,0.790,(6.3788)+(0.0028)Gly+(-0.0792)Cit+(0.0025)Arg+(0.0015)Tyr+(0.0169)Leu+(-0.1629)Trp;0.789,0.824,0.787,0.782,0.781,0.793,0.807,0.791,(5.7737)+(-0.0496)Asn+(0.0012)Gly+(-0.0129)Tyr+(-0.0014)Lys+(0.0541)Ile+(-0.1496)Trp;0.789,0.817,0.782,0.769,0.771,0.835,0.803,0.795,(3.9997)+(0.0108)Gln+(-0.1517)His+(-0.0174)Arg+(-0.0153)Val+(-0.0003)Lys+(0.0365)Leu;0.789,0.814,0.777,0.771,0.767,0.824,0.780,0.786,(3.9218)+(0.0112)Gln+(-0.1524)His+(-0.0178)Arg+(0.0043)Pro+(-0.0184)Tyr+(0.0126)Leu;0.789,0.822,0.813,0.825,0.793,0.822,0.815,0.814,(4.8466)+(-0.0020)Gly+(0.0031)Gln+(-0.0074)Ala+(0.0088)Pro+(0.0156)Orn+(-0.1460)Trp;0.789,0.818,0.777,0.767,0.778,0.833,0.762,0.785,(4.0212)+(0.0003)Gly+(0.0101)Gln+(-0.1520)His+(-0.0214)Arg+(0.0243)Orn+(0.0012)Lys;0.789,0.816,0.775,0.763,0.764,0.821,0.797,0.786,(3.9246)+(0.0001)Gly+(0.0096)Gln+(-0.1547)His+(-0.0148)Tyr+(-0.0034)Lys+(0.0166)Leu;0.789,0.809,0.717,0.704,0.672,0.824,0.770,0.743,(0.7629)+(0.0279)Ser+(-0.0029)Thr+(-0.0397)Cit+(-0.0288)Arg+(-0.0530)Val+(0.1596)Ile;0.789,0.826,0.829,0.827,0.849,0.830,0.793,0.825,(7.1748)+(-0.0588)Cit+(0.0024)Arg+(0.0252)Tyr+(-0.1194)Met+(0.0075)Lys+(-0.1440)Trp;0.789,0.823,0.763,0.749,0.772,0.830,0.734,0.771,(6.5686)+(-0.1224)His+(0.0227)Thr+(-0.0016)Ala+(-0.1488)Met+(0.0291)Orn+(0.0035)Lys;0.789,0.820,0.784,0.756,0.775,0.840,0.839,0.802,(6.6729)+(-0.0996)His+(-0.0059)Ala+(-0.0383)Cit+(-0.1199)Met+(0.0041)Lys+(0.0698)Ile;0.789,0.820,0.727,0.692,0.733,0.783,0.768,0.744,(4.0036)+(-0.1566)His+(0.0119)Thr+(-0.0009)Pro+(0.0175)Orn+(-0.0027)Leu+(0.0692)Phe;0.789,0.819,0.776,0.774,0.755,0.802,0.809,0.785,(5.3795)+(-0.0285)Asn+(-0.1258)His+(-0.0029)Ala+(-0.0367)Tyr+(0.0046)Lys+(0.1008)Phe;0.789,0.819,0.739,

0.704,0.743,0.804,0.774,0.756,(6.1796)+(-0.0328)Asn+(-0.1369)His+(0.0200)Thr+(-0.0117)Arg+(-0.0028)Pro+(0.0470)Ile;0.789,0.825,0.765,0.752,0.786,0.828,0.714,0.770,(7.2491)+(-0.0075)Asn+(-0.1065)His+(0.0290)Thr+(-0.0339)Cit+(0.0082)Pro+(-0.1719)Met;0.789,0.816,0.770,0.773,0.763,0.825,0.738,0.775,(4.5694)+(0.0099)Gln+(-0.1462)His+(0.0150)Thr+(-0.0244)Arg+(0.0056)Pro+(-0.0222)Tyr;0.789,0.823,0.781,0.799,0.781,0.789,0.725,0.774,(5.4549)+(0.0066)Thr+(0.0053)Pro+(-0.0214)Tyr+(-0.0044)Val+(0.0178)Orn+(-0.1422)Trp;0.789,0.821,0.732,0.719,0.682,0.807,0.816,0.756,(2.1065)+(0.0127)Thr+(-0.0341)Arg+(-0.0598)Val+(-0.0140)Lys+(0.1676)Ile+(0.0458)Phe;0.789,0.820,0.818,0.830,0.820,0.828,0.778,0.814,(7.0366)+(-0.0371)Asn+(-0.0020)Ala+(-0.0016)Val+(-0.0671)Met+(0.0311)Orn+(-0.1223)Trp;0.789,0.817,0.772,0.761,0.721,0.842,0.855,0.795,(5.7562)+(-0.1107)Asn+(-0.0471)Cit+(-0.0002)Pro+(-0.0536)Val+(-0.0002)Lys+(0.1653)Ile;0.789,0.822,0.809,0.816,0.807,0.821,0.785,0.807,(6.8894)+(-0.0749)Asn+(0.0197)Thr+(-0.0047)Ala+(-0.0003)Lys+(0.0133)Leu+(-0.1468)Trp;0.789,0.821,0.815,0.830,0.821,0.831,0.752,0.809,(7.7821)+(-0.0656)Asn+(-0.0011)Gly+(0.0233)Thr+(-0.0031)Ala+(-0.0113)Arg+(-0.1384)Trp;0.789,0.827,0.817,0.824,0.810,0.819,0.809,0.815,(6.2945)+(-0.0049)Ala+(0.0122)Pro+(0.0161)Tyr+(-0.1528)Met+(0.0086)Lys+(-0.1362)Trp;0.789,0.826,0.796,0.792,0.793,0.849,0.777,0.803,(4.2487)+(0.0110)Gln+(-0.1385)His+(-0.0160)Arg+(0.0027)Tyr+(-0.0967)Met+(0.0277)Orn;0.789,0.823,0.742,0.731,0.737,0.776,0.756,0.750,(4.8457)+(-0.1333)His+(-0.0107)Arg+(0.0037)Pro+(-0.0494)Tyr+(0.0297)Orn+(0.0904)Phe;0.789,0.827,0.721,0.697,0.752,0.805,0.657,0.728,(-0.8439)+(0.0427)Ser+(0.0095)Thr+(-0.0916)Cit+(-0.3663)Met+(0.0167)Orn+(0.0652)Ile;0.789,0.824,0.781,0.773,0.726,0.852,0.868,0.805,(1.6328)+(-0.0147)Ala+(-0.1000)Cit+(0.0040)Pro+(0.1815)Ile+(-0.0951)Leu+(0.0653)Phe;0.789,0.822,0.788,0.769,0.790,0.858,0.784,0.800,(4.7850)+(0.0085)Gln+(-0.1270)His+(-0.0044)Al

a+(-0.0751)Cit+(0.0493)Orn+(-0.0050)Lys;0.789,0.820,0.740,0.717,0.746,0.800,0.743,0.751,(4.2342)+(-0.0398)Asn+(0.0059)Gly+(-0.1393)His+(-0.0103)Arg+(0.0229)Orn+(0.0780)Phe;0.789,0.818,0.760,0.754,0.685,0.842,0.874,0.789,(3.2851)+(0.0035)Thr+(-0.0098)Ala+(-0.0431)Val+(-0.0105)Lys+(0.1923)Ile+(-0.0255)Leu;0.789,0.817,0.770,0.762,0.721,0.838,0.845,0.792,(5.6729)+(-0.0998)Asn+(-0.0467)Cit+(-0.0035)Arg+(-0.0471)Val+(0.1788)Ile+(-0.0204)Leu;0.789,0.816,0.726,0.709,0.734,0.821,0.690,0.738,(4.2120)+(0.0395)Ser+(-0.1275)His+(-0.0174)Arg+(0.0090)Pro+(-0.0158)Tyr+(0.0027)Lys;0.789,0.821,0.817,0.828,0.819,0.821,0.784,0.813,(6.7638)+(-0.0401)Asn+(-0.0022)Ala+(-0.0834)Met+(0.0263)Orn+(0.0065)Lys+(-0.1305)Trp;0.789,0.815,0.771,0.767,0.759,0.819,0.774,0.780,(4.3449)+(-0.0013)Gly+(0.0085)Gln+(-0.1523)His+(0.0103)Thr+(-0.0207)Tyr+(0.0037)Val;0.789,0.834,0.733,0.749,0.721,0.780,0.685,0.734,(-3.2943)+(0.0454)Ser+(0.0135)Pro+(-0.0177)Val+(-0.4062)Met+(0.0076)Orn+(0.1313)Phe;0.789,0.834,0.737,0.740,0.714,0.791,0.737,0.745,(-3.6351)+(0.0470)Ser+(-0.0077)Ala+(0.0152)Pro+(-0.3835)Met+(-0.0012)Orn+(0.1094)Phe;0.789,0.823,0.755,0.729,0.782,0.814,0.727,0.763,(6.8031)+(-0.1262)His+(0.0348)Thr+(-0.0360)Cit+(-0.2092)Met+(0.0001)Lys+(0.0259)Leu;0.789,0.821,0.810,0.805,0.802,0.857,0.806,0.817,(4.1426)+(0.0118)Gln+(-0.1356)His+(-0.0022)Ala+(-0.0394)Cit+(0.0077)Val+(-0.0957)Met;0.789,0.818,0.794,0.789,0.788,0.844,0.785,0.801,(4.4247)+(-0.0670)Asn+(0.0022)Gly+(0.0115)Gln+(-0.1308)His+(-0.0402)Cit+(0.0051)Pro;0.789,0.825,0.777,0.753,0.791,0.790,0.804,0.784,(4.4489)+(-0.1203)His+(-0.0259)Cit+(0.0060)Pro+(-0.2096)Met+(0.0068)Lys+(0.1119)Phe;0.789,0.818,0.741,0.720,0.751,0.797,0.733,0.750,(4.3281)+(-0.0511)Asn+(0.0079)Gly+(-0.1308)His+(-0.0448)Cit+(0.0023)Pro+(0.0916)Phe;0.789,0.818,0.759,0.745,0.706,0.840,0.845,0.784,(5.0438)+(-0.1362)Asn+(-0.0552)Val+(0.0313)Orn+(-0.0018)Lys+(0.1706)Ile+(-0.0097)Leu;0.789,0.824,0.784,0.771,0.783,0.802,0

.807,0.791,(4.7492)+(0.0144)Asn+(-0.1213)His+(-0.0014)Ala+(-0.0135)Tyr+(-0.1612)Met+(0.1213)Phe;0.789,0.823,0.765,0.752,0.779,0.833,0.719,0.771,(7.1652)+(-0.1193)His+(0.0264)Thr+(-0.0016)Ala+(-0.0140)Arg+(-0.1309)Met+(0.0330)Orn;0.789,0.823,0.825,0.826,0.840,0.823,0.791,0.820,(7.8960)+(-0.0519)Asn+(-0.06
35)Cit+(0.0042)Arg+(0.0090)Tyr+(0.0055)Lys+(-0.1428)Trp;0.789,0.820,0.748,0.736,0.672,0.856,0.861,0.781,(0.3546)+(0.0356)Ser+(-0.0076)Gly+(-0.0019)Gln+(-0.0127)Ala+(0.1733)Ile+(-0.0853)Leu;0.789,0.826,0.828,0.837,0.839,0.831,0.776,0.821,(5.4202)+(0.0058)Gln+(-0.0718)Cit+(-0.0044)Arg+(0.0013)Tyr+(-0.0000)Lys+(-0.1537)Trp;0.789,0.825,0.755,0.719,0.758,0.819,0.798,0.773,(5.6736)+(0.0275)Asn+(-0.1221)His+(-0.0081)Tyr+(-0.1637)Met+(0.0241)Orn+(0.0595)Ile;0.789,0.816,0.781,0.772,0.768,0.831,0.797,0.792,(4.1079)+(0.0108)Gln+(-0.1492)His+(-0.0168)Arg+(-0.0091)Tyr+(-0.0142)Val+(0.0359)Leu;0.789,0.816,0.754,0.724,0.750,0.819,0.793,0.771,(6.6807)+(-0.0534)Asn+(-0.1100)His+(0.0040)Pro+(-0.0300)Val+(0.0380)Orn+(0.0502)Leu;0.789,0.828,0.826,0.842,0.821,0.821,0.797,0.820,(5.2071)+(-0.0896)Asn+(0.0057)Gln+(-0.0099)Tyr+(0.0186)Orn+(0.0019)Lys+(-0.1380)Trp;0.789,0.828,0.829,0.842,0.824,0.813,0.814,0.823,(5.1485)+(-0.0931)Asn+(-0.0005)Gly+(0.0061)Gln+(0.0048)Pro+(0.0032)Lys+(-0.1444)Trp;0.789,0.826,0.804,0.796,0.814,0.807,0.800,0.804,(6.8175)+(-0.0669)Cit+(0.0023)Arg+(0.0020)Tyr+(-0.0165)Val+(0.0423)Leu+(-0.1569)Trp;0.789,0.822,0.814,0.829,0.814,0.824,0.766,0.808,(7.3126)+(-0.0788)Asn+(0.0191)Thr+(-0.0033)Ala+(-0.0024)Tyr+(0.0030)Lys+(-0.1392)Trp;0.789,0.821,0.789,0.812,0.783,0.790,0.741,0.782,(4.8346)+(0.0025)Gln+(0.0068)Thr+(0.0056)Pro+(-0.0203)Tyr+(-0.0026)Val+(-0.1480)Trp;0.789,0.819,0.801,0.804,0.784,0.849,0.795,0.808,(4.1271)+(0.0005)Gly+(0.0104)Gln+(-0.1365)His+(-0.0006)Ala+(-0.1118)Met+(0.0059)Lys;0.789,0.817,0.792,0.792,0.773,0.846,0.791,0.801,(4.3426)+(0.0006)Gly+(0.010

6)Gln+(-0.1407)His+(-0.0042)Ala+(-0.0174)Arg+(0.0081)Pro;0.789,0.813,0.708,0.678,0.674,0.828,0.771,0.738,(1.8637)+(0.0318)Ser+(-0.0022)Gln+(-0.0620)Cit+(-0.0470)Val+(-0.0207)Lys+(0.1611)Ile;0.789,0.824,0.753,0.739,0.769,0.819,0.710,0.760,(6.4359)+(0.0013)Gly+(-0.1254)His+(0.0233)Thr+(0.0014)Val+(-0.1529)Met+(0.0282)Orn;0.789,0.823,0.773,0.769,0.768,0.767,0.797,0.776,(4.8799)+(-0.0009)Gly+(-0.0004)Pro+(-0.0238)Tyr+(0.0070)Orn+(0.0516)Ile+(-0.1602)Trp;0.789,0.823,0.751,0.728,0.768,0.810,0.736,0.760,(6.4978)+(-0.1344)His+(0.0331)Thr+(-0.0044)Tyr+(-0.2035)Met+(0.0013)Lys+(0.0251)Leu;0.789,0.826,0.794,0.795,0.730,0.853,0.879,0.814,(2.2555)+(-0.0926)Asn+(-0.0108)Ala+(0.0060)Orn+(0.1618)Ile+(-0.0921)Leu+(0.0647)Phe;0.789,0.822,0.791,0.787,0.779,0.834,0.793,0.798,(3.8145)+(0.0106)Gln+(-0.1377)His+(0.0083)Pro+(0.0008)Tyr+(-0.1516)Met+(0.0057)Lys;0.789,0.817,0.772,0.762,0.722,0.842,0.854,0.795,(5.7811)+(-0.1085)Asn+(-0.0452)Cit+(-0.0022)Arg+(-0.0001)Pro+(-0.0538)Val+(0.1656)Ile;0.789,0.816,0.763,0.758,0.688,0.843,0.879,0.792,(3.4503)+(-0.0008)Gly+(-0.0097)Ala+(-0.0422)Val+(-0.0085)Lys+(0.1931)Ile+(-0.0278)Leu;0.789,0.825,0.805,0.797,0.816,0.807,0.802,0.806,(6.9996)+(-0.0657)Cit+(0.0044)Tyr+(-0.0167)Val+(-0.0019)Lys+(0.0436)Leu+(-0.1552)Trp;0.789,0.824,0.802,0.813,0.789,0.818,0.789,0.802,(5.7265)+(-0.0068)Ala+(0.0097)Pro+(-0.0027)Val+(0.0207)Orn+(-0.0001)Lys+(-0.1369)Trp;0.789,0.823,0.797,0.806,0.803,0.794,0.762,0.791,(5.9323)+(-0.0001)Gly+(0.0081)Pro+(-0.1576)Met+(0.0187)Orn+(0.0056)Lys+(-0.1360)Trp;0.789,0.822,0.759,0.747,0.772,0.819,0.723,0.765,(6.8334)+(-0.0048)Asn+(-0.1163)His+(0.0275)Thr+(0.0075)Pro+(0.0012)Val+(-0.1728)Met;0.789,0.815,0.781,0.767,0.774,0.832,0.799,0.793,(3.9944)+(0.0109)Gln+(-0.1491)His+(-0.0234)Cit+(-0.0141)Arg+(-0.0140)Val+(0.0353)Leu;0.788,0.826,0.785,0.763,0.795,0.801,0.808,0.792,(4.5724)+(-0.1225)His+(-0.0301)Cit+(0.0050)Arg+(-0.1945)Met+(0.0062)Lys+(0.1165)Phe;0.788,0.834,0.739,0.

710,0.751,0.820,0.730,0.753,(-0.2343)+(0.0535)Ser+(-0.0036)Gly+(-0.06
96)Cit+(-0.2867)Met+(-0.0121)Lys+(0.0757)Ile;0.788,0.827,0.781,0.768,
0.786,0.789,0.801,0.786,(4.7887)+(-0.1219)His+(-0.0256)Cit+(-0.0202)T
yr+(-0.1667)Met+(0.0082)Lys+(0.1211)Phe;0.788,0.815,0.727,0.703,0.741
,0.826,0.692,0.740,(4.1427)+(0.0402)Ser+(-0.1274)His+(-0.0209)Cit+(-0
.0130)Arg+(0.0076)Pro+(-0.0002)Lys;0.788,0.828,0.748,0.750,0.771,0.79
3,0.661,0.744,(-2.4002)+(0.0507)Ser+(-0.0821)Cit+(-0.0002)Arg+(-0.333
2)Met+(-0.0097)Lys+(0.1255)Phe;0.788,0.825,0.767,0.758,0.767,0.829,0.
746,0.775,(6.6444)+(-0.1138)His+(0.0248)Thr+(-0.0038)Ala+(0.0109)Pro+
(-0.1783)Met+(0.0068)Lys;0.788,0.825,0.830,0.844,0.824,0.839,0.800,0.
827,(4.6476)+(0.0051)Gln+(-0.0028)Ala+(0.0178)Tyr+(-0.1511)Met+(0.020
6)Orn+(-0.1376)Trp;0.788,0.821,0.761,0.746,0.757,0.842,0.748,0.773,(4
.9068)+(0.0443)Ser+(-0.0046)Gly+(-0.1205)His+(-0.0013)Ala+(-0.0123)Ar
g+(-0.0021)Tyr;0.788,0.821,0.754,0.750,0.664,0.833,0.896,0.786,(1.423
5)+(-0.0034)Thr+(-0.0122)Ala+(0.0041)Pro+(-0.0547)Val+(0.1656)Ile+(0.
0358)Phe;0.788,0.827,0.822,0.841,0.814,0.809,0.802,0.816,(5.2161)+(-0
.0909)Asn+(0.0061)Gln+(0.0057)Pro+(-0.0117)Tyr+(0.0039)Lys+(-0.1405)T
rp;0.788,0.818,0.706,0.680,0.690,0.823,0.724,0.729,(-1.5640)+(0.0354)
Ser+(-0.0973)Cit+(-0.0268)Lys+(0.1613)Ile+(-0.0867)Leu+(0.0686)Phe;0.
788,0.823,0.758,0.743,0.774,0.820,0.724,0.765,(6.7311)+(-0.0115)Asn+(
-0.1217)His+(0.0242)Thr+(0.0005)Val+(-0.1430)Met+(0.0292)Orn;0.788,0.
822,0.737,0.742,0.695,0.815,0.752,0.751,(1.6443)+(0.0349)Ser+(-0.1314
)Asn+(-0.0418)Tyr+(0.0123)Orn+(0.1447)Ile+(-0.0737)Leu;0.788,0.828,0.
708,0.717,0.732,0.757,0.601,0.702,(-3.9483)+(0.0479)Ser+(0.0170)Thr+(
-0.0254)Arg+(0.0095)Pro+(-0.4560)Met+(0.1166)Phe;0.788,0.826,0.772,0.
759,0.773,0.785,0.798,0.779,(4.5959)+(-0.1181)His+(0.0016)Arg+(0.0071
)Pro+(-0.0221)Tyr+(-0.1737)Met+(0.1182)Phe;0.788,0.825,0.720,0.699,0.
745,0.803,0.666,0.728,(-0.7745)+(0.0431)Ser+(0.0128)Thr+(-0.0795)Cit+

(-0.0037)Tyr+(-0.3692)Met+(0.0712)Ile;0.788,0.823,0.779,0.765,0.779,0.796,0.803,0.786,(4.6187)+(0.0148)Asn+(-0.1234)His+(0.0015)Arg+(-0.0154)Tyr+(-0.1704)Met+(0.1214)Phe;0.788,0.822,0.747,0.721,0.746,0.798,0.784,0.762,(4.3890)+(-0.1370)His+(0.0019)Pro+(-0.0085)Val+(0.0282)Orn+(-0.0029)Lys+(0.0788)Phe;0.788,0.821,0.772,0.754,0.754,0.812,0.828,0.787,(5.2493)+(-0.0287)Asn+(-0.1253)His+(-0.0062)Ala+(0.0070)Pro+(0.0000)Leu+(0.0798)Phe;0.788,0.823,0.785,0.783,0.741,0.850,0.836,0.802,(3.5543)+(-0.0078)Ala+(-0.0096)Tyr+(-0.1845)Met+(0.0136)Orn+(0.1760)Ile+(-0.0804)Leu;0.788,0.822,0.805,0.819,0.784,0.810,0.809,0.805,(4.5943)+(0.0034)Gln+(-0.0073)Ala+(0.0093)Pro+(-0.0096)Tyr+(0.0109)Leu+(-0.1497)Trp;0.788,0.821,0.776,0.761,0.783,0.840,0.752,0.784,(4.6218)+(0.0086)Gln+(-0.1310)His+(-0.0693)Cit+(-0.0184)Tyr+(0.0474)Orn+(-0.0046)Lys;0.788,0.819,0.814,0.816,0.800,0.859,0.806,0.820,(4.8362)+(-0.0594)Asn+(0.0016)Gly+(0.0117)Gln+(-0.1242)His+(-0.0019)Ala+(-0.0392)Cit;0.788,0.824,0.791,0.795,0.785,0.781,0.804,0.791,(4.1636)+(-0.0012)Gly+(0.0043)Gln+(-0.0184)Arg+(-0.0188)Tyr+(0.0532)Ile+(-0.1631)Trp;0.788,0.822,0.823,0.840,0.817,0.832,0.786,0.819,(4.6965)+(0.0049)Gln+(-0.0024)Ala+(-0.1340)Met+(0.0210)Orn+(0.0031)Lys+(-0.1363)Trp;0.788,0.819,0.754,0.753,0.672,0.834,0.867,0.782,(3.8346)+(-0.0102)Ala+(0.0066)Pro+(-0.0238)Tyr+(-0.0491)Val+(-0.0084)Lys+(0.1687)Ile;0.788,0.825,0.810,0.823,0.804,0.811,0.789,0.807,(6.6078)+(-0.0045)Ala+(-0.0081)Arg+(0.0130)Pro+(-0.1250)Met+(0.0106)Lys+(-0.1329)Trp;0.788,0.821,0.730,0.713,0.736,0.796,0.711,0.739,(-1.2377)+(0.0484)Ser+(-0.0667)Asn+(0.0089)Thr+(-0.3220)Met+(-0.0025)Orn+(0.0632)Ile;0.788,0.820,0.762,0.748,0.709,0.843,0.849,0.787,(5.1398)+(-0.1368)Asn+(-0.0030)Pro+(-0.0583)Val+(0.0340)Orn+(-0.0026)Lys+(0.1682)Ile;0.788,0.821,0.761,0.757,0.733,0.793,0.804,0.772,(4.9970)+(-0.1231)His+(-0.0046)Ala+(0.0089)Pro+(-0.0377)Tyr+(-0.0041)Val+(0.1025)Phe;0.788,0.819,0.752,0.742,0.756,0.834,0

.714,0.761,(4.9323)+(0.0417)Ser+(-0.0550)Asn+(-0.1177)His+(-0.0121)Ar
g+(-0.0024)Tyr+(0.0056)Lys;0.788,0.819,0.770,0.738,0.774,0.833,0.800,
0.786,(6.7224)+(-0.0170)Asn+(-0.1058)His+(-0.0287)Val+(-0.1060)Met+(0
.0406)Orn+(0.0565)Leu;0.788,0.819,0.787,0.777,0.775,0.849,0.791,0.798
,(4.2925)+(0.0091)Gln+(-0.1462)His+(0.0097)Thr+(-0.0044)Ala+(-0.0434)
Cit+(0.0062)Val;0.788,0.829,0.812,0.823,0.811,0.799,0.793,0.807,(4.32
01)+(0.0054)Gln+(0.0077)Pro+(-0.1853)Met+(0.0035)Lys+(0.0095)Leu+(-0.
1443)Trp;0.788,0.825,0.798,0.806,0.808,0.795,0.762,0.793,(6.6491)+(-0
.0852)Asn+(0.0162)Thr+(0.0034)Pro+(0.0003)Lys+(0.0058)Leu+(-0.1489)Tr
p;0.788,0.820,0.797,0.805,0.806,0.807,0.750,0.792,(6.4172)+(-0.0001)G
ly+(-0.0082)Arg+(0.0080)Pro+(-0.1308)Met+(0.0245)Orn+(-0.1295)Trp;0.7
88,0.810,0.759,0.755,0.679,0.839,0.876,0.787,(3.0673)+(-0.0011)Gly+(-
0.0008)Gln+(-0.0102)Ala+(-0.0425)Val+(0.1945)Ile+(-0.0324)Leu;0.788,0
.823,0.774,0.762,0.777,0.770,0.801,0.778,(4.3157)+(-0.0011)Gly+(0.005
3)Thr+(-0.0027)Pro+(-0.0001)Orn+(0.0507)Ile+(-0.1745)Trp;0.788,0.822,
0.800,0.812,0.785,0.811,0.791,0.800,(5.9704)+(-0.0013)Gly+(-0.0066)Al
a+(0.0099)Pro+(-0.0111)Tyr+(0.0209)Orn+(-0.1362)Trp;0.788,0.821,0.786
,0.768,0.794,0.805,0.802,0.792,(4.8517)+(0.0123)Asn+(-0.1151)His+(-0.
0251)Cit+(-0.0037)Val+(-0.1768)Met+(0.1239)Phe;0.788,0.817,0.765,0.74
3,0.784,0.844,0.728,0.775,(6.9189)+(-0.0324)Asn+(0.0048)Gly+(-0.1008)
His+(-0.0047)Ala+(-0.0818)Cit+(0.0595)Orn;0.788,0.822,0.758,0.744,0.7
52,0.825,0.757,0.770,(4.3215)+(0.0067)Gly+(-0.1315)His+(-0.0049)Ala+(
-0.0439)Cit+(-0.0044)Arg+(0.0982)Phe;0.788,0.819,0.779,0.779,0.758,0.
802,0.810,0.787,(5.5622)+(-0.0290)Asn+(-0.1180)His+(-0.0022)Ala+(-0.0
322)Tyr+(-0.0042)Val+(0.1086)Phe;0.788,0.817,0.770,0.744,0.749,0.837,
0.832,0.790,(6.5383)+(-0.1026)His+(-0.0082)Ala+(-0.0458)Cit+(0.0064)P
ro+(-0.0171)Tyr+(0.0613)Ile;0.788,0.816,0.734,0.708,0.748,0.827,0.705
,0.747,(4.1957)+(0.0399)Ser+(-0.1310)His+(-0.0338)Cit+(-0.0084)Tyr+(0

.0081)Val+(-0.0039)Lys;0.788,0.813,0.760,0.756,0.747,0.811,0.760,0.769,(4.1597)+(0.0081)Gln+(-0.1504)His+(0.0088)Thr+(0.0045)Pro+(-0.0239)Tyr+(0.0027)Val;0.788,0.831,0.718,0.721,0.735,0.759,0.645,0.715,(-3.1092)+(0.0518)Ser+(-0.0852)Cit+(0.0122)Pro+(-0.0266)Tyr+(-0.3833)Met+(0.1271)Phe;0.788,0.825,0.794,0.797,0.730,0.853,0.881,0.815,(2.2550)+(-0.0952)Asn+(0.0025)Thr+(-0.0109)Ala+(0.1627)Ile+(-0.0920)Leu+(0.0670)Phe;0.788,0.822,0.751,0.728,0.773,0.811,0.722,0.759,(6.6700)+(0.0118)Asn+(-0.1343)His+(0.0354)Thr+(-0.0094)Arg+(-0.2104)Met+(0.0253)Leu;0.788,0.820,0.759,0.732,0.745,0.826,0.810,0.778,(5.7971)+(-0.0989)His+(-0.0417)Cit+(-0.0032)Pro+(-0.0005)Lys+(0.1223)Ile+(-0.0501)Leu;0.788,0.816,0.734,0.694,0.744,0.811,0.765,0.754,(5.9582)+(-0.1302)His+(0.0176)Thr+(-0.0381)Cit+(-0.0038)Arg+(-0.0083)Lys+(0.0511)Ile;0.788,0.816,0.762,0.756,0.687,0.842,0.877,0.790,(3.3155)+(0.0000)Gln+(-0.0097)Ala+(-0.0421)Val+(-0.0088)Lys+

(0.1929)Ile+(-0.0277)Leu;0.788,0.824,0.796,0.811,0.782,0.817,0.769,0.795,(5.9588)+(0.0104)Thr+(-0.0065)Ala+(0.0102)Pro+(-0.0106)Tyr+(-0.0006)Val+(-0.1416)Trp;0.788,0.824,0.810,0.824,0.791,0.826,0.799,0.810,(4.7745)+(0.0029)Gln+(-0.0073)Ala+(0.0089)Pro+(0.0166)Orn+(-0.0026)Lys+(-0.1433)Trp;0.788,0.822,0.810,0.817,0.808,0.821,0.790,0.809,(6.9740)+(-0.0744)Asn+(-0.0007)Gly+(0.0200)Thr+(-0.0047)Ala+(0.0130)Leu+(-0.1473)Trp;0.788,0.816,0.721,0.737,0.647,0.774,0.795,0.738,(0.8987)+(0.0003)Thr+(-0.0697)Tyr+(-0.0374)Val+(0.1852)Ile+(-0.0522)Leu+(0.0734)Phe;0.788,0.821,0.818,0.822,0.809,0.858,0.798,0.822,(4.7104)+(-0.0367)Asn+(0.0130)Gln+(-0.1254)His+(-0.0291)Cit+(-0.0080)Arg+(-0.0579)Met;0.788,0.814,0.789,0.771,0.771,0.848,0.830,0.805,(4.1117)+(0.0097)Gln+(-0.1427)His+(-0.0042)Ala+(-0.0371)Cit+(-0.0115)Val+(0.0363)Leu;0.788,0.823,0.738,0.744,0.693,0.818,0.760,0.754,(1.6363)+(0.0358)Ser+(-0.1263)Asn+(-0.0005)Pro+(-0.0387)Tyr+(0.1486)Ile+(-0.0737)Leu;0.788,0.820

,0.779,0.756,0.776,0.854,0.791,0.794,(4.5416)+(0.0078)Gln+(-0.1294)His+(-0.0072)Ala+(-0.0751)Cit+(0.0082)Pro+(0.0444)Orn;0.788,0.816,0.784,0.777,0.767,0.849,0.790,0.796,(4.5552)+(0.0085)Gln+(-0.1354)His+(0.0084)Thr+(-0.0056)Ala+(-0.0423)Cit+(0.0083)Pro;0.788,0.814,0.755,0.750,0.670,0.836,0.885,0.786,(2.7583)+(-0.0016)Gly+(-0.0012)Thr+(-0.0116)Ala+(0.0053)Pro+(-0.0531)Val+(0.1681)Ile;0.788,0.825,0.746,0.732,0.723,0.832,0.768,0.764,(-1.4429)+(0.0461)Ser+(0.0005)Gln+(-0.0074)Ala+(-0.0133)Arg+(-0.2911)Met+(0.0799)Ile;0.788,0.825,0.744,0.726,0.741,0.825,0.743,0.759,(4.0314)+(0.0052)Gly+(-0.1414)His+(0.0153)Thr+(-0.0057)Ala+(-0.0512)Cit+(0.0928)Phe;0.788,0.824,0.794,0.808,0.797,0.791,0.753,0.787,(4.5285)+(0.0018)Gln+(0.0030)Thr+(0.0037)Pro+(-0.0048)Val+(0.0140)Orn+(-0.1512)Trp;0.788,0.823,0.730,0.699,0.734,0.795,0.753,0.745,(3.8088)+(0.0043)Gly+(-0.1483)His+(0.0005)Pro+(0.0218)Orn+(-0.0052)Lys+(0.0740)Phe;0.788,0.822,0.761,0.738,0.793,0.835,0.699,0.766,(7.0758)+(-0.1120)His+(0.0246)Thr+(-0.0612)Cit+(-0.0054)Arg+(-0.1470)Met+(0.0463)Orn;0.788,0.817,0.781,0.778,0.778,0.835,0.757,0.787,(4.3748)+(-0.0004)Gly+(0.0103)Gln+(-0.1543)His+(0.0130)Thr+(-0.0243)Arg+(0.0012)Lys;0.788,0.817,0.772,0.740,0.757,0.841,0.841,0.794,(6.4068)+(-0.1041)His+(-0.0088)Ala+(-0.0474)Cit+(0.0056)Pro+(-0.0027)Lys+(0.0615)Ile;0.788,0.816,0.781,0.778,0.778,0.837,0.751,0.786,(4.4719)+(0.0001)Gly+(0.0102)Gln+(-0.1489)His+(0.0131)Thr+(-0.0230)Cit+(-0.0200)Arg;0.788,0.827,0.834,0.848,0.831,0.822,0.816,0.829,(4.7553)+(-0.0563)Asn+(0.0071)Gln+(-0.1242)Met+(0.0047)Lys+(0.0115)Leu+(-0.1427)Trp;0.788,0.825,0.800,0.807,0.810,0.794,0.766,0.795,(6.7560)+(-0.0838)Asn+(-0.0007)Gly+(0.0167)Thr+(0.0033)Pro+(0.0058)Leu+(-0.1493)Trp;0.788,0.825,0.829,0.840,0.825,0.814,0.817,0.824,(5.0701)+(-0.0879)Asn+(-0.0005)Gly+(0.0062)Gln+(0.0042)Pro+(0.0050)Leu+(-0.1458)Trp;0.788,0.825,0.789,0.794,0.736,0.860,0.835,0.806,(4.5313)+(-0.0104)Ala+(-0.0782)Cit+(-0.0037)A

rg+(-0.0281)Tyr+(0.1821)Ile+(-0.0825)Leu;0.788,0.824,0.848,0.864,0.835,0.847,0.831,0.844,(5.4817)+(-0.0765)Asn+(-0.0006)Gly+(0.0068)Gln+(-0.0028)Ala+(0.0026)Tyr+(-0.1349)Trp;0.788,0.823,0.806,0.804,0.794,0.843,0.805,0.812,(4.1006)+(-0.0331)Asn+(0.0116)Gln+(-0.1390)His+(0.0033)Val+(-0.0984)Met+(0.0050)Lys;0.788,0.821,0.795,0.805,0.800,0.791,0.762,0.790,(5.5059)+(-0.0026)Gly+(0.0065)Thr+(0.0038)Pro+(-0.0053)Val+(0.0165)Orn+(-0.1493)Trp;0.788,0.818,0.731,0.692,0.735,0.809,0.767,0.751,(5.2311)+(-0.0274)Asn+(0.0043)Gly+(-0.1327)His+(0.0217)Orn+(-0.0038)Lys+(0.0450)Ile;0.788,0.818,0.719,0.735,0.646,0.773,0.794,0.737,(0.8097)+(-0.0704)Tyr+(-0.0381)Val+(0.0090)Orn+(0.1831)Ile+(-0.0511)Leu+(0.0703)Phe;0.788,0.811,0.765,0.754,0.755,0.810,0.786,0.776,(3.8294)+(0.0000)Gly+(0.0091)Gln+(-0.1541)His+(0.0036)Pro+(-0.0213)Tyr+(0.0135)Leu;0.788,0.825,0.734,0.734,0.695,0.821,0.757,0.752,(1.3874)+(0.0310)Ser+(-0.0061)Gly+(-0.0744)Cit+(-0.0544)Tyr+(0.1611)Ile+(-0.0815)Leu;0.788,0.821,0.811,0.825,0.803,0.820,0.785,0.809,(6.8895)+(0.0009)Gly+(-0.0044)Ala+(-0.0027)Arg+(0.0130)Pro+(-0.1023)Met+(-0.1238)Trp;0.788,0.816,0.800,0.801,0.785,0.841,0.802,0.807,(4.5282)+(-0.0632)Asn+(0.0006)Gly+(0.0110)Gln+(-0.1369)His+(-0.0076)Tyr+(0.0037)Lys;0.788,0.815,0.761,0.764,0.703,0.828,0.829,0.781,(5.5761)+(-0.1060)Asn+(0.0025)Gly+(-0.0105)Arg+(-0.0190)Tyr+(-0.0543)Val+(0.1688)Ile;0.788,0.824,0.744,0.763,0.734,0.774,0.691,0.741,(-2.3356)+(0.0525)Ser+(-0.1024)Asn+(-0.0268)Tyr+(-0.2624)Met+(0.0094)Orn+(0.1125)Phe;0.788,0.823,0.754,0.741,0.769,0.822,0.711,0.761,(6.3223)+(0.0013)Gly+(-0.1251)His+(0.0224)Thr+(-0.1601)Met+(0.0278)Orn+(0.0037)Lys;0.788,0.823,0.820,0.833,0.816,0.825,0.791,0.816,(6.9294)+(-0.0660)Asn+(-0.0030)Ala+(-0.0039)Val+(0.0282)Orn+(0.0053)Lys+(-0.1276)Trp;0.788,0.819,0.737,0.709,0.754,0.794,0.739,0.749,(5.1207)+(-0.1461)His+(0.0220)Thr+(-0.0335)Cit+(-0.0097)Arg+(-0.0083)Lys+(0.0855)Phe;0.788,0.818,0.735,0.720,0.747,0.837,0.

678,0.745,(4.7317)+(0.0358)Ser+(-0.1287)His+(0.0095)Thr+(-0.0226)Cit+(-0.0140)Arg+(0.0000)Lys;0.788,0.817,0.764,0.743,0.770,0.828,0.759,0.775,(4.1113)+(0.0085)Gln+(-0.1424)His+(-0.0643)Cit+(-0.0262)Tyr+(0.0401)Orn+(0.0115)Leu;0.788,0.816,0.747,0.740,0.664,0.832,0.878,0.778,(3.2273)+(-0.0019)Gln+(-0.0002)Thr+(-0.0115)Ala+(0.0056)Pro+(-0.0534)Val+(0.1703)Ile;0.788,0.820,0.817,0.829,0.819,0.825,0.777,0.813,(6.9272)+(-0.0355)Asn+(0.0002)Gly+(-0.0022)Ala+(-0.0700)Met+(0.0297)Orn+(-0.1246)Trp;0.788,0.819,0.824,0.833,0.833,0.827,0.778,0.818,(7.4568)+(-0.0013)Ala+(-0.0573)Cit+(0.0035)Arg+(-0.0719)Met+(0.0076)Lys+(-0.1353)Trp;0.788,0.826,0.833,0.849,0.833,0.826,0.791,0.825,(5.3199)+(-0.0775)Asn+(-0.0010)Gly+(0.0065)Gln+(-0.0138)Arg+(0.0217)Orn+(-0.1390)Trp;0.788,0.826,0.799,0.794,0.791,0.846,0.795,0.806,(3.8165)+(0.0011)Gly+(0.0110)Gln+(-0.1448)His+(0.0087)Tyr+(0.0052)Val+(-0.1250)Met;0.788,0.824,0.794,0.798,0.784,0.814,0.788,0.796,(5.6396)+(0.0115)Thr+(-0.0077)Ala+(0.0083)Pro+(-0.0047)Lys+(0.0135)Leu+(-0.1524)Trp;0.788,0.824,0.839,0.851,0.825,0.836,0.835,0.837,(5.1157)+(-0.0752)Asn+(-0.0003)Gly+(0.0065)Gln+(-0.0039)Ala+(0.0121)Leu+(-0.1425)Trp;0.788,0.820,0.797,0.792,0.792,0.843,0.787,0.804,(3.9610)+(0.0112)Gln+(-0.1305)His+(-0.0341)Cit+(0.0086)Pro+(-0.1478)Met+(0.0054)Lys;0.788,0.819,0.815,0.825,0.829,0.823,0.751,0.807,(7.0970)+(0.0024)Gly+(-0.0605)Cit+(0.0031)Arg+(-0.0845)Met+(0.0074)Lys+(-0.1372)Trp;0.788,0.819,0.765,0.742,0.741,0.828,0.831,0.786,(6.3447)+(-0.1142)His+(-0.0068)Ala+(-0.0036)Arg+(0.0052)Pro+(-0.0186)Tyr+(0.0567)Ile;0.788,0.818,0.799,0.799,0.784,0.846,0.796,0.806,(4.2540)+(0.0115)Gln+(-0.1476)His+(-0.0024)Ala+(-0.0166)Arg+(-0.0062)Tyr+(0.0050)Val;0.788,0.815,0.756,0.739,0.752,0.841,0.748,0.770,(4.7584)+(0.0418)Ser+(-0.0039)Gly+(-0.1182)His+(-0.0019)Ala+(-0.0252)Cit+(-0.0018)Tyr;0.788,0.815,0.782,0.772,0.769,0.813,0.815,0.792,(5.5828)+(-0.0297)Asn+(-0.1205)His+(-0.0033)Ala+(-0.0045)Arg+(-0.0

055)Val+(0.0949)Phe;0.788,0.823,0.707,0.657,0.727,0.801,0.730,0.729,(3.0853)+(0.0066)Gly+(-0.1449)His+(-0.0687)Cit+(0.0312)Orn+(0.0307)Ile+(0.0553)Phe;0.788,0.822,0.816,0.827,0.807,0.817,0.804,0.814,(7.0350)+(-0.0516)Asn+(-0.0056)Ala+(-0.0086)Arg+(0.0110)Pro+(0.0084)Lys+(-0.1349)Trp;0.788,0.824,0.794,0.773,0.800,0.821,0.819,0.803,(5.1595)+(-0.1145)His+(-0.0029)Ala+(-0.0299)Cit+(-0.1568)Met+(0.0065)Leu+(0.1114)Phe;0.788,0.821,0.757,0.743,0.748,0.826,0.761,0.770,(4.2410)+(0.0064)Gly+(-0.1313)His+(-0.0048)Ala+(-0.0461)Cit+(-0.0011)Val+(0.0983)Phe;0.788,0.827,0.843,0.863,0.839,0.838,0.806,0.837,(5.2775)+(-0.0529)Asn+(0.0079)Gln+(-0.0062)Arg+(0.0008)Val+(-0.0886)Met+(-0.1317)Trp;0.788,0.824,0.764,0.748,0.765,0.847,0.747,0.777,(4.2105)+(0.0452)Ser+(-0.0035)Gly+(-0.1167)His+(0.0146)Tyr+(-0.1411)Met+(0.0047)Lys;0.788,0.823,0.771,0.758,0.772,0.848,0.748,0.782,(5.1814)+(0.0469)Ser+(-0.0357)Asn+(-0.0035)Gly+(-0.1022)His+(-0.0223)Cit+(-0.0667)Met;0.788,0.823,0.742,0.736,0.712,0.817,0.770,0.759,(0.4171)+(0.0489)Ser+(-0.2386)Asn+(-0.0542)Val+(0.0291)Orn+(0.0631)Leu+(0.0877)Phe;0.788,0.821,0.755,0.744,0.735,0.786,0.802,0.767,(4.9816)+(-0.1306)His+(-0.0363)Tyr+(-0.0160)Val+(0.0012)Lys+(0.0255)Leu+(0.0950)Phe;0.788,0.821,0.753,0.740,0.681,0.844,0.873,0.785,(3.1499)+(0.0031)Thr+(-0.0100)Ala+(-0.0520)Val+(0.0210)Orn+(-0.0150)Lys+(0.1738)Ile;0.788,0.823,0.779,0.791,0.788,0.814,0.703,0.774,(3.8019)+(0.0316)Ser+(-0.0175)Arg+(-0.0017)Tyr+(0.0015)Val+(-0.0005)Lys+(-0.1461)Trp;0.788,0.821,0.798,0.796,0.789,0.841,0.789,0.804,(3.9862)+(0.0123)Gln+(-0.1387)His+(-0.0133)Arg+(0.0074)Pro+(0.0030)Val+(-0.1215)Met;0.788,0.818,0.778,0.768,0.779,0.834,0.765,0.786,(4.0677)+(0.0101)Gln+(-0.1513)His+(-0.0214)Arg+(-0.0004)Val+(0.0247)Orn+(0.0013)Lys;0.788,0.818,0.727,0.727,0.690,0.819,0.734,0.743,(0.8334)+(0.0300)Ser+(-0.0126)Thr+(-0.0773)Cit+(-0.0411)Tyr+(0.1693)Ile+(-0.0848)Leu;0.788,0.817,0.753,0.740,0.762,0.834,0.712,0.762,(5.0202)+(

0.0422)Ser+(-0.0573)Asn+(-0.1131)His+(-0.0226)Cit+(-0.0078)Arg+(0.0045)Lys;0.788,0.816,0.791,0.787,0.773,0.838,0.804,0.801,(4.1883)+(0.0097)Gln+(-0.1482)His+(-0.0029)Ala+(-0.0082)Tyr+(0.0054)Val+(-0.0006)Lys;0.788,0.826,0.799,0.809,0.817,0.803,0.733,0.791,(6.8301)+(-0.0740)Asn+(0.0182)Thr+(-0.0157)Arg+(0.0180)Orn+(0.0049)Leu+(-0.1467)Trp;0.788,0.825,0.806,0.815,0.792,0.805,0.808,0.805,(4.8249)+(0.0032)Gln+(-0.0084)Tyr+(-0.0219)Val+(-0.0035)Lys+(0.0457)Leu+(-0.1511)Trp;0.788,0.824,0.804,0.811,0.813,0.800,0.767,0.798,(6.6591)+(-0.0849)Asn+(-0.0011)Gly+(0.0155)Thr+(0.0148)Orn+(0.0047)Leu+(-0.1476)Trp;0.788,0.824,0.785,0.784,0.763,0.859,0.777,0.796,(1.6129)+(0.0028)Gly+(0.0058)Gln+(-0.0829)Cit+(-0.2551)Met+(0.1757)Ile+(-0.0813)Leu;0.788,0.824,0.773,0.741,0.781,0.839,0.793,0.788,(5.2105)+(-0.1171)His+(-0.0063)Ala+(-0.0778)Cit+(0.0508)Orn+(-0.0066)Lys+(0.0800)Phe;0.788,0.825,0.790,0.771,0.797,0.810,0.811,0.797,(4.8322)+(-0.1138)His+(-0.0304)Cit+(0.0068)Arg+(-0.0039)Val+(-0.1751)Met+(0.1238)Phe;0.788,0.824,0.729,0.684,0.741,0.808,0.763,0.749,(5.6700)+(-0.1413)His+(0.0161)Thr+(-0.0133)Arg+(0.0207)Orn+(-0.0067)Lys+(0.0430)Ile;0.788,0.824,0.809,0.813,0.801,0.811,0.817,0.810,(6.8745)+(-0.0763)Asn+(0.0016)Gly+(-0.0270)Val+(0.0057)Lys+(0.0520)Leu+(-0.1344)Trp;0.788,0.817,0.761,0.760,0.744,0.773,0.792,0.767,(5.3780)+(-0.0351)Asn+(-0.1167)His+(0.0062)Pro+(-0.0411)Tyr+(-0.0069)Val+(0.1076)Phe;0.788,0.825,0.790,0.785,0.784,0.790,0.814,0.793,(5.9412)+(-0.0467)Asn+(0.0006)Pro+(-0.0142)Tyr+(-0.0014)Lys+(0.0532)Ile+(-0.1496)Trp;0.788,0.825,0.

741,0.700,0.767,0.804,0.751,0.756,(4.9737)+(-0.0629)Asn+(-0.1348)His+(0.0179)Thr+(-0.0605)Cit+(0.0332)Orn+(0.0695)Phe;0.788,0.823,0.783,0.773,0.781,0.796,0.803,0.788,(4.7644)+(0.0097)Asn+(-0.1180)His+(-0.0136)Tyr+(-0.0038)Val+(-0.1625)Met+(0.1264)Phe;0.788,0.823,0.767,0.755,0.767,0.851,0.742,0.779,(4.8936)+(0.0448)Ser+(-0.0038)Gly+(-0.1070)His

+(-0.0001)Ala+(-0.0219)Cit+(-0.0907)Met;0.788,0.821,0.748,0.728,0.734,0.819,0.778,0.765,(5.5677)+(-0.0223)Asn+(0.0045)Gly+(-0.1040)His+(-0.0116)Arg+(0.1151)Ile+(-0.0477)Leu;0.788,0.819,0.746,0.735,0.725,0.778,0.795,0.758,(4.9032)+(-0.1289)His+(0.0053)Pro+(-0.0402)Tyr+(-0.0166)Val+(0.0247)Leu+(0.0939)Phe;0.788,0.818,0.747,0.733,0.747,0.796,0.747,0.756,(4.4732)+(-0.0391)Asn+(0.0064)Gly+(-0.1372)His+(-0.0078)Arg+(-0.0013)Leu+(0.0894)Phe;0.788,0.817,0.737,0.725,0.748,0.835,0.674,0.745,(4.9334)+(0.0350)Ser+(-0.1259)His+(0.0112)Thr+(-0.0228)Cit+(-0.0139)Arg+(-0.0082)Tyr;0.788,0.825,0.843,0.861,0.829,0.841,0.824,0.839,(5.4029)+(-0.0855)Asn+(0.0065)Gln+(-0.0027)Ala+(-0.0011)Val+(0.0052)Lys+(-0.1367)Trp;0.788,0.824,0.801,0.814,0.820,0.803,0.728,0.791,(6.9411)+(-0.0764)Asn+(0.0175)Thr+(-0.0168)Arg+(0.0192)Orn+(0.0027)Lys+(-0.1443)Trp;0.788,0.823,0.780,0.752,0.766,0.834,0.843,0.799,(6.3338)+(-0.1101)His+(-0.0051)Ala+(0.0009)Tyr+(-0.1344)Met+(0.0046)Lys+(0.0672)Ile;0.788,0.820,0.808,0.811,0.800,0.849,0.789,0.812,(4.6577)+(-0.0556)Asn+(0.0016)Gly+(0.0125)Gln+(-0.1302)His+(-0.0312)Cit+(-0.0098)Arg;0.788,0.815,0.763,0.761,0.683,0.840,0.880,0.791,(4.0239)+(-0.0013)Gly+(-0.0088)Ala+(-0.0214)Tyr+(-0.0495)Val+(-0.0079)Lys+(0.1741)Ile;0.788,0.814,0.769,0.757,0.758,0.814,0.789,0.780,(3.8993)+(0.0094)Gln+(-0.1530)His+(0.0035)Pro+(-0.0191)Tyr+(-0.0032)Lys+(0.0148)Leu;0.788,0.831,0.769,0.774,0.778,0.802,0.714,0.767,(3.3215)+(0.0336)Ser+(-0.0159)Arg+(-0.0049)Tyr+(-0.0045)Lys+(0.0151)Leu+(-0.1526)Trp;0.788,0.825,0.801,0.809,0.812,0.800,0.758,0.795,(6.5347)+(-0.0847)Asn+(0.0152)Thr+(0.0148)Orn+(-0.0011)Lys+(0.0055)Leu+(-0.1465)Trp;0.788,0.822,0.767,0.750,0.768,0.806,0.781,0.776,(5.2120)+(-0.0408)Asn+(-0.1211)His+(-0.0094)Arg+(-0.0108)Val+(0.0334)Orn+(0.0869)Phe;0.788,0.819,0.812,0.815,0.797,0.850,0.808,0.817,(4.5405)+(-0.0532)Asn+(0.0125)Gln+(-0.1393)His+(-0.0018)Ala+(-0.0178)Arg+(0.0071)Lys;0.788,0.818,0.794,0.790,0.777,0.84

5,0.801,0.803,(4.2105)+(0.0109)Gln+(-0.1452)His+(-0.0045)Ala+(-0.0172)Arg+(0.0074)Pro+(0.0030)Val;0.788,0.827,0.786,0.759,0.797,0.808,0.815,0.795,(4.7069)+(-0.1199)His+(-0.0338)Cit+(0.0092)Arg+(-0.1873)Met+(0.0055)Leu+(0.1125)Phe;0.788,0.818,0.735,0.700,0.738,0.804,0.770,0.753,(5.9411)+(-0.1398)His+(0.0186)Thr+(-0.0115)Arg+(-0.0030)Pro+(-0.0055)Lys+(0.0510)Ile;0.788,0.824,0.767,0.743,0.764,0.816,0.798,0.780,(4.9359)+(-0.1332)His+(-0.0049)Ala+(-0.0100)Arg+(0.0283)Orn+(-0.0011)Lys+(0.0747)Phe;0.788,0.823,0.779,0.764,0.778,0.798,0.807,0.787,(4.7802)+(-0.1227)His+(0.0030)Arg+(-0.0172)Tyr+(-0.1621)Met+(0.0046)Leu+(0.1160)Phe;0.788,0.822,0.716,0.687,0.734,0.785,0.705,0.728,(3.8445)+(0.0043)Gly+(-0.1576)His+(0.0155)Thr+(-0.0211)Arg+(0.0170)Orn+(0.0761)Phe;0.788,0.820,0.760,0.754,0.733,0.795,0.806,0.772,(4.9955)+(-0.1270)His+(-0.0050)Ala+(0.0082)Pro+(-0.0389)Tyr+(0.0009)Leu+(0.0959)Phe;0.788,0.820,0.758,0.749,0.752,0.776,0.781,0.765,(5.4345)+(-0.0237)Asn+(-0.1203)His+(-0.0316)Cit+(0.0053)Pro+(-0.0452)Tyr+(0.1020)Phe;0.788,0.814,0.732,0.698,0.733,0.809,0.764,0.751,(5.5196)+(0.0019)Gly+(-0.1308)His+(0.0029)Pro+(-0.0235)Val+(0.0320)Orn+(0.0429)Leu;0.788,0.826,0.730,0.690,0.704,0.833,0.813,0.760,(2.3197)+(-0.1059)Cit+(-0.0520)Val+(0.0510)Orn+(-0.0251)Lys+(0.1534)Ile+(0.0462)Phe;0.788,0.824,0.758,0.747,0.770,0.817,0.719,0.763,(6.8108)+(-0.1166)His+(0.0275)Thr+(0.0079)Pro+(-0.0063)Tyr+(0.0017)Val+(-0.1691)Met;0.788,0.822,0.762,0.755,0.766,0.839,0.717,0.769,(4.8009)+(0.0424)Ser+(-0.0367)Asn+(-0.1118)His+(-0.0104)Arg+(-0.0897)Met+(0.0091)Lys;0.788,0.813,0.766,0.763,0.752,0.814,0.768,0.774,(4.4288)+(-0.0015)Gly+(0.0083)Gln+(-0.1460)His+(0.0096)Thr+(0.0051)Pro+(-0.0238)Tyr;0.788,0.824,0.759,0.722,0.766,0.817,0.805,0.777,(5.8595)+(-0.1185)His+(0.0008)Pro+(-0.1553)Met+(0.0230)Orn+(0.0015)Lys+(0.0542)Ile;0.788,0.818,0.721,0.706,0.678,0.828,0.772,0.746,(1.9875)+(0.0274)Ser+(-0.0653)Cit+(-0.0277)Tyr+(-0.0435)Val+(-0.0179)

Lys+(0.1562)Ile;0.788,0.816,0.764,0.756,0.755,0.814,0.771,0.774,(4.19
47)+(-0.0008)Gly+(0.0080)Gln+(-0.1451)His+(0.0046)Pro+(-0.0238)Tyr+(0
.0238)Orn;0.788,0.826,0.747,0.719,0.721,0.864,0.790,0.774,(0.6338)+(0
.0382)Ser+(-0.0017)Thr+(-0.0127)Ala+(-0.0965)Cit+(-0.0232)Lys+(0.0834
)Ile;0.788,0.821,0.818,0.829,0.808,0.823,0.807,0.817,(7.2589)+(-0.047
4)Asn+(-0.0053)Ala+(0.0112)Pro+(0.0010)Tyr+(-0.0011)Val+(-0.1267)Trp;
0.788,0.819,0.783,0.782,0.724,0.876,0.839,0.805,(2.0084)+(0.0026)Gly+
(0.0027)Gln+(-0.0130)Ala+(-0.1006)Cit+(0.1850)Ile+(-0.0850)Leu;0.788,
0.814,0.739,0.720,0.732,0.796,0.760,0.752,(4.3456)+(0.0049)Gly+(-0.13
89)His+(-0.0116)Arg+(-0.0186)Val+(0.0283)Leu+(0.0853)Phe;0.788,0.818,
0.776,0.772,0.757,0.802,0.811,0.785,(5.4815)+(-0.0222)Asn+(-0.1243)Hi
s+(-0.0029)Ala+(-0.0340)Tyr+(0.0024)Leu+(0.0995)Phe;0.788,0.818,0.760
,0.751,0.754,0.815,0.758,0.769,(4.2731)+(0.0073)Gln+(-0.1509)His+(0.0
077)Thr+(-0.0230)Tyr+(0.0019)Val+(0.0223)Orn;0.788,0.833,0.732,0.741,
0.705,0.783,0.727,0.739,(-3.3902)+(0.0459)Ser+(-0.0073)Ala+(0.0156)Pr
o+(-0.0183)Tyr+(-0.3609)Met+(0.1135)Phe;0.788,0.824,0.787,0.800,0.801
,0.806,0.705,0.778,(5.9576)+(0.0116)Thr+(-0.0233)Arg+(0.0048)Pro+(-0.
0056)Val+(0.0214)Orn+(-0.1462)Trp;0.788,0.823,0.847,0.865,0.834,0.845
,0.829,0.843,(5.4951)+(-0.0756)Asn+(-0.0007)Gly+(0.0069)Gln+(-0.0027)
Ala+(0.0002)Val+(-0.1344)Trp;0.788,0.821,0.725,0.695,0.729,0.789,0.74
9,0.740,(3.5569)+(0.0042)Gly+(-0.1514)His+(0.0005)Pro+(0.0201)Orn+(-0
.0031)Leu+(0.0737)Phe;0.788,0.817,0.786,0.770,0.773,0.848,0.810,0.800
,(3.8355)+(0.0019)Gly+(0.0097)Gln+(-0.1466)His+(-0.0047)Ala+(-0.0439)
Cit+(0.0201)Leu;0.788,0.822,0.801,0.802,0.793,0.847,0.785,0.807,(4.01
04)+(0.0010)Gly+(0.0122)Gln+(-0.1434)His+(-0.0136)Arg+(0.0055)Val+(-0
.0950)Met;0.788,0.821,0.813,0.830,0.818,0.834,0.745,0.807,(7.6866)+(-
0.0674)Asn+(0.0228)Thr+(-0.0030)Ala+(-0.0113)Arg+(-0.0005)Val+(-0.137
0)Trp;0.788,0.813,0.705,0.689,0.657,0.814,0.767,0.732,(1.3671)+(0.031

2)Ser+(-0.0030)Gln+(-0.0339)Arg+(-0.0010)Pro+(-0.0565)Val+(0.1681)Ile;0.788,0.813,0.748,0.739,0.672,0.840,0.865,0.779,(3.0141)+(-0.0020)Gln+(-0.0103)Ala+(-0.0446)Val+(0.0163)Orn+(0.1910)Ile+(-0.0295)Leu;0.788,0.825,0.756,0.744,0.769,0.820,0.712,0.761,(6.5499)+(0.0009)Gly+(-0.1228)His+(0.0231)Thr+(-0.0038)Tyr+(-0.1436)Met+(0.0301)Orn;0.788,0.820,0.817,0.821,0.835,0.816,0.774,0.811,(7.2635)+(-0.0635)Cit+(0.0054)Arg+(0.0044)Val+(-0.0827)Met+(0.0053)Lys+(-0.1436)Trp;0.788,0.820,0.729,0.687,0.732,0.811,0.773,0.751,(5.0604)+(0.0036)Gly+(-0.1381)His+(-0.0025)Pro+(0.0223)Orn+(-0.0059)Lys+(0.0490)Ile;0.788,0.817,0.741,0.723,0.744,0.792,0.745,0.751,(4.3756)+(-0.0396)Asn+(0.0064)Gly+(-0.1379)His+(-0.0083)Arg+(0.0022)Pro+(0.0852)Phe;0.788,0.816,0.761,0.753,0.752,0.812,0.764,0.770,(4.1087)+(0.0079)Gln+(-0.1462)His+(0.0045)Pro+(-0.0233)Tyr+(0.0005)Val+(0.0232)Orn;0.788,0.823,0.796,0.794,0.785,0.838,0.792,0.802,(3.8031)+(0.0009)Gly+(0.0107)Gln+(-0.1442)His+(0.0049)Val+(-0.1232)Met+(0.0041)Lys;0.788,0.824,0.757,0.760,0.727,0.842,0.750,0.770,(0.5760)+(0.0393)Ser+(-0.1301)Asn+(0.0035)Gln+(-0.0333)Arg+(0.1628)Ile+(-0.0875)Leu;0.788,0.819,0.801,0.815,0.808,0.828,0.732,0.796,(6.3252)+(0.0145)Thr+(-0.0046)Ala+(-0.0208)Arg+(-0.0019)Val+(0.0251)Orn+(-0.1429)Trp;0.788,0.819,0.814,0.825,0.820,0.819,0.768,0.808,(6.9850)+(-0.0387)Asn+(0.0000)Gly+(-0.0025)Val+(-0.0780)Met+(0.0305)Orn+(-0.1231)Trp;0.788,0.814,0.772,0.773,0.708,0.844,0.854,0.795,(4.0385)+(-0.1556)Asn+(0.0021)Gly+(0.0040)Gln+(-0.0556)Val+(-0.0006)Lys+(0.1631)Ile;0.788,0.820,0.780,0.752,0.781,0.853,0.800,0.796,(4.1306)+(0.0085)Gln+(-0.1401)His+(-0.0061)Ala+(-0.0717)Cit+(0.0409)Orn+(0.0145)Leu;0.788,0.816,0.737,0.753,0.694,0.788,0.747,0.746,(0.9304)+(0.0015)Gly+(-0.0898)Cit+(-0.0788)Tyr+(0.1749)Ile+(-0.1027)Leu+(0.1002)Phe;0.788,0.816,0.775,0.770,0.771,0.829,0.754,0.781,(4.1943)+(0.0101)Gln+(-0.1550)His+(0.0119)Thr+(-0.0244)Arg+(0.0034)Pro+(0.0008)Lys;0.788,0.815,0.

739,0.713,0.746,0.822,0.730,0.753,(4.2294)+(0.0434)Ser+(-0.0037)Gly+(-0.1305)His+(-0.0275)Cit+(-0.0136)Tyr+(0.0067)Val;0.788,0.825,0.771,0.760,0.771,0.848,0.749,0.782,(5.1534)+(0.0481)Ser+(-0.0312)Asn+(-0.0042)Gly+(-0.1067)His+(-0.0069)Arg+(-0.0621)Met;0.788,0.818,0.736,0.726,0.742,0.831,0.680,0.745,(4.7934)+(0.0347)Ser+(-0.1307)His+(0.0103)Thr+(-0.0186)Arg+(-0.0095)Tyr+(0.0022)Lys;0.788,0.818,0.799,0.798,0.788,0.838,0.797,0.805,(4.6781)+(-0.0608)Asn+(0.0119)Gln+(-0.1268)His+(-0.0370)Cit+(0.0061)Pro+(-0.0133)Tyr;0.788,0.816,0.784,0.769,0.781,0.830,0.794,0.793,(3.8228)+(0.0115)Gln+(-0.1534)His+(-0.0297)Cit+(-0.0119)Arg+(-0.0025)Lys+(0.0152)Leu;0.788,0.815,0.773,0.763,0.769,0.830,0.767,0.782,(4.3981)+(0.0090)Gln+(-0.1447)His+(0.0090)Thr+(-0.0379)Cit+(0.0036)Pro+(-0.0043)Lys;0.788,0.823,0.815,0.825,0.803,0.819,0.809,0.814,(6.9435)+(-0.0577)Asn+(-0.0056)Ala+(0.0109)Pro+(-0.0028)Tyr+(0.0068)Lys+(-0.1334)Trp;0.788,0.810,0.757,0.735,0.758,0.817,0.768,0.769,(3.6453)+(0.0012)Gly+(0.0086)Gln+(-0.1592)His+(0.0080)Thr+(-0.0405)Cit+(0.0145)Leu;0.788,0.825,0.759,0.720,0.776,0.825,0.782,0.776,(6.3271)+(-0.1081)His+(-0.0573)Cit+(-0.0151)Tyr+(-0.1151)Met+(0.0417)Orn+(0.0523)Ile;0.788,0.823,0.805,0.813,0.817,0.802,0.759,0.798,(6.6620)+(-0.0561)Asn+(0.0003)Gly+(-0.0103)Arg+(0.0048)Pro+(0.0237)Orn+(-0.1359)Trp;0.788,0.818,0.767,0.761,0.759,0.783,0.788,0.773,(5.5820)+(-0.0228)Asn+(-0.1209)His+(-0.0303)Cit+(-0.0394)Tyr+(0.0005)Leu+(0.1038)Phe;0.788,0.815,0.775,0.743,0.760,0.842,0.839,0.796,(6.5075)+(-0.0005)Asn+(-0.1064)His+(-0.0074)Ala+(-0.0446)Cit+(-0.0022)Lys+(0.0650)Ile;0.788,0.824,0.837,0.851,0.823,0.835,0.832,0.835,(5.0694)+(-0.0791)Asn+(0.0064)Gln+(-0.0039)Ala+(0.0021)Lys+(0.0112)Leu+(-0.1435)Trp;0.788,0.821,0.805,0.804,0.791,0.851,0.806,0.813,(4.0446)+(0.0107)Gln+(-0.1385)His+(-0.0009)Ala+(0.0109)Tyr+(-0.1247)Met+(0.0053)Lys;0.788,0.816,0.805,0.809,0.792,0.840,0.796,0.809,(4.5038)+(-0.0539)Asn+(0.0126)Gln+(-0.139

7)His+(-0.0184)Arg+(-0.0085)Tyr+(0.0074)Lys;0.788,0.813,0.736,0.713,0.732,0.803,0.756,0.751,(6.5795)+(-0.1334)His+(0.0220)Thr+(-0.0195)Tyr+(-0.0208)Val+(-0.0050)Lys+(0.0494)Leu;0.788,0.824,0.801,0.807,0.795,0.813,0.787,0.800,(6.0036)+(-0.0072)Ala+(-0.0149)Arg+(0.0093)Pro+(0.0218)Orn+(0.0079)Leu+(-0.1425)Trp;0.788,0.822,0.809,0.823,0.808,0.798,0.783,0.803,(6.8614)+(-0.0744)Asn+(0.0008)Gly+(0.0075)Pro+(-0.0054)Val+(0.0079)Lys+(-0.1332)Trp;0.788,0.819,0.802,0.804,0.792,0.841,0.788,0.806,(4.3177)+(-0.0570)Asn+(0.0012)Gly+(0.0124)Gln+(-0.1424)His+(-0.0186)Arg+(0.0067)Lys;0.788,0.816,0.797,0.795,0.783,0.845,0.797,0.805,(4.1161)+(0.0113)Gln+(-0.1506)His+(-0.0028)Ala+(-0.0189)Arg+(0.0038)Val+(0.0035)Lys;0.787,0.824,0.759,0.747,0.771,0.820,0.720,0.765,(6.8452)+(-0.0147)Asn+(-0.1198)His+(0.0241)Thr+(-0.0070)Tyr+(-0.1285)Met+(0.0309)Orn;0.787,0.821,0.758,0.742,0.773,0.821,0.724,0.765,(6.6175)+(-0.0142)Asn+(-0.1224)His+(0.0237)Thr+(-0.1507)Met+(0.0280)Orn+(0.0037)Lys;0.787,0.827,0.817,0.823,0.796,0.826,0.839,0.821,(4.8546)+(0.0037)Gln+(-0.0049)Ala+(-0.0217)Val+(-0.0031)Lys+(0.0501)Leu+(-0.1487)Trp;0.787,0.826,0.814,0.806,0.819,0.823,0.821,0.817,(6.0417)+(0.0024)Gly+(0.0316)Tyr+(-0.0292)Val+(-0.1838)Met+(0.0635)Leu+(-0.1347)Trp;0.787,0.819,0.772,0.770,0.762,0.787,0.791,0.777,(5.6908)+(-0.0296)Asn+(-0.1146)His+(-0.0286)Cit+(-0.0361)Tyr+(-0.0047)Val+(0.1118)Phe;0.787,0.815,0.713,0.691,0.681,0.830,0.755,0.739,(0.7717)+(0.0230)Ser+(-0.0616)Cit+(-0.0320)Arg+(-0.0550)Val+(0.0325)Orn+(0.1561)Ile;0.787,0.826,0.839,0.853,0.834,0.837,0.816,0.835,(4.5234)+(0.0057)Gln+(-0.0020)Ala+(0.0229)Tyr+(-0.1653)Met+(0.0056)Lys+(-0.1435)Trp;0.787,0.825,0.793,0.791,0.756,0.841,0.843,0.807,(0.6796)+(-0.1401)Asn+(0.0068)Gln+(-0.0919)Cit+(0.1548)Ile+(-0.0948)Leu+(0.0678)Phe;0.787,0.825,0.823,0.839,0.815,0.809,0.805,0.817,(5.1328)+(-0.0847)Asn+(0.0062)Gln+(0.0050)Pro+(-0.0115)Tyr+(0.0058)Leu+(-0.1421

)Trp;0.787,0.824,0.843,0.861,0.830,0.839,0.828,0.839,(5.3886)+(-0.0832)Asn+(-0.0006)Gly+(0.0066)Gln+(-0.0029)Ala+(0.0047)Lys+(-0.1380)Trp;0.787,0.824,0.752,0.721,0.754,0.816,0.783,0.769,(5.4840)+(0.0058)Gly+(-0.1178)His+(0.0007)Arg+(0.0035)Tyr+(-0.1665)Met+(0.0671)Ile;0.787,0.823,0.817,0.820,0.806,0.859,0.803,0.822,(4.4788)+(-0.0293)Asn+(0.0128)Gln+(-0.1341)His+(-0.0126)Arg+(0.0088)Tyr+(-0.0750)Met;0.787,0.818,0.772,0.744,0.751,0.840,0.839,0.793,(6.4127)+(-0.1069)His+(-0.0071)Ala+(-0.0482)Cit+(0.0061)Arg+(-0.0147)Tyr+(0.0662)Ile;0.787,0.818,0.792,0.790,0.777,0.852,0.783,0.800,(4.7835)+(0.0089)Gln+(-0.1370)His+(0.0114)Thr+(-0.0031)Ala+(-0.0392)Cit+(-0.0026)Lys;0.787,0.816,0.718,0.722,0.684,0.816,0.708,0.732,(1.1289)+(0.0233)Ser+(-0.0002)Gln+(-0.0839)Cit+(-0.0512)Tyr+(0.1633)Ile+(-0.0822)Leu;0.787,0.827,0.827,0.838,0.827,0.818,0.807,0.823,(4.9865)+(-0.0912)Asn+(0.0057)Gln+(0.0156)Orn+(0.0005)Lys+(0.0043)Leu+(-0.1443)Trp;0.787,0.826,0.768,0.781,0.753,0.793,0.751,0.769,(-2.5149)+(0.0526)Ser+(-0.0060)Gly+(-0.0112)Val+(-0.3355)Met+(-0.0047)Lys+(0.1262)Phe;0.787,0.824,0.799,0.813,0.812,0.796,0.736,0.789,(7.0591)+(-0.0779)Asn+(0.0185)Thr+(-0.0156)Arg+(0.0047)Pro+(0.0044)Lys+(-0.1468)Trp;0.787,0.821,0.805,0.821,0.813,0.799,0.753,0.796,(7.3379)+(-0.0803)Asn+(-0.0014)Gly+(0.0192)Thr+(-0.0104)Tyr+(0.0024)Lys+(-0.1416)Trp;0.787,0.818,0.762,0.766,0.683,0.838,0.862,0.787,(3.7679)+(-0.0087)Ala+(-0.0238)Tyr+(-0.0393)Val+(-0.0059)Lys+(0.1940)Ile+(-0.0316)Leu;0.787,0.819,0.677,0.666,0.617,0.765,0.766,0.704,(0.4942)+(0.0294)Ser+(-0.0067)Gln+(-0.0611)Tyr+(-0.0528)Val+(0.1507)Ile+(0.0705)Phe;0.787,0.816,0.734,0.715,0.729,0.785,0.755,0.746,(3.9773)+(0.0045)Gly+(-0.1428)His+(0.0027)Pro+(-0.0057)Val+(-0.0014)Lys+(0.0875)Phe;0.787,0.822,0.760,0.751,0.777,0.820,0.703,0.763,(7.2268)+(-0.0008)Asn+(-0.1134)His+(0.0304)Thr+(-0.0118)Arg+(0.0081)Pro+(-0.1685)Met;0.787,0.820,0.760,0.738,0.747,0.815,0.807,0.777,(5.9130)+(-0.0174)Asn+

(-0.1030)His+(-0.0130)Arg+(0.0053)Lys+(0.1162)Ile+(-0.0530)Leu;0.787,0.817,0.770,0.736,0.751,0.840,0.847,0.794,(6.1130)+(-0.1080)His+(-0.0090)Ala+(-0.0504)Cit+(0.0041)Arg+(0.0052)Pro+(0.0604)Ile;0.787,0.825,0.750,0.720,0.724,0.863,0.804,0.778,(0.7613)+(0.0406)Ser+(-0.0024)Gly+(-0.0127)Ala+(-0.0934)Cit+(-0.0238)Lys+(0.0819)Ile;0.787,0.825,0.847,0.863,0.834,0.847,0.827,0.843,(5.4224)+(-0.0774)Asn+(0.0067)Gln+(-0.0028)Ala+(0.0030)Tyr+(0.0001)Val+(-0.1351)Trp;0.787,0.823,0.803,0.811,0.792,0.814,0.798,0.804,(5.8246)+(-0.0010)Gly+(-0.0070)Ala+(0.0093)Pro+(0.0198)Orn+(-0.0009)Lys+(-0.1395)Trp;0.787,0.823,0.813,0.818,0.802,0.818,0.818,0.814,(6.8241)+(-0.0454)Asn+(-0.0061)Ala+(0.0100)Pro+(-0.0016)Tyr+(0.0109)Leu+(-0.1362)Trp;0.787,0.822,0.812,0.819,0.820,0.809,0.780,0.807,(6.8289)+(-0.0277)Asn+(0.0014)Gly+(0.0087)Pro+(0.0141)Tyr+(-0.1251)Met+(-0.1298)Trp;0.787,0.817,0.749,0.722,0.737,0.795,0.812,0.766,(4.8867)+(-0.1348)His+(0.0029)Pro+(-0.0205)Val+(-0.0028)Lys+(0.0311)Leu+(0.0740)Phe;0.787,0.818,0.728,0.686,0.741,0.803,0.760,0.747,(5.5451)+(-0.1461)His+(0.0154)Thr+(-0.0155)Arg+(-0.0035)Pro+(0.0196)Orn+(0.0435)Ile;0.787,0.821,0.778,0.757,0.768,0.818,0.822,0.791,(5.5757)+(-0.0271)Asn+(-0.1165)His+(-0.0072)Ala+(-0.0405)Cit+(0.0084)Pro+(0.0861)Phe;0.787,0.817,0.760,0.744,0.759,0.844,0.743,0.773,(4.9371)+(0.0435)Ser+(-0.0040)Gly+(-0.1176)His+(-0.0017)Ala+(-0.0174)Cit+(-0.0096)Arg;0.787,0.816,0.754,0.747,0.747,0.808,0.751,0.763,(4.2438)+(0.0071)Gln+(-0.1474)His+(0.0070)Thr+(0.0044)Pro+(-0.0265)Tyr+(0.0221)Orn;0.787,0.816,0.761,0.763,0.698,0.827,0.838,0.782,(5.3632)+(-0.1242)Asn+(0.0023)Gly+(-0.0226)Tyr+(-0.0544)Val+(0.0027)Lys+(0.1660)Ile;0.787,0.814,0.776,0.777,0.710,0.845,0.864,0.799,(4.0410)+(-0.1475)Asn+(0.0043)Gln+(-0.0506)Val+(-0.0002)Lys+(0.1725)Ile+(-0.0157)Leu;0.787,0.825,0.836,0.849,0.834,0.826,0.812,0.830,(4.8672)+(-0.0493)Asn+(0.0077)Gln+(-0.0059)Arg+(-0.1131)Met+(0.0135)Leu+(-0.1389)Trp;0.787,0.825,0.

759,0.725,0.761,0.817,0.803,0.777,(6.0109)+(-0.1187)His+(-0.0121)Tyr+(-0.1357)Met+(0.0250)Orn+(0.0019)Lys+(0.0555)Ile;0.787,0.824,0.818,0.810,0.822,0.816,0.835,0.821,(6.1598)+(0.0287)Tyr+(-0.0292)Val+(-0.1923)Met+(0.0072)Lys+(0.0600)Leu+(-0.1385)Trp;0.787,0.823,0.792,0.779,0.793,0.813,0.810,0.799,(5.2436)+(-0.1124)His+(-0.0020)Ala+(-0.0288)Cit+(-0.0144)Tyr+(-0.1359)Met+(0.1216)Phe;0.787,0.819,0.812,0.822,0.819,0.812,0.772,0.806,(6.6239)+(-0.0408)Asn+(0.0002)Gly+(-0.0985)Met+(0.0245)Orn+(0.0065)Lys+(-0.1329)Trp;0.787,0.814,0.731,0.706,0.732,0.787,0.756,0.745,(3.9378)+(0.0049)Gly+(-0.1476)His+(0.0015)Pro+(-0.0033)Lys+(0.0006)Leu+(0.0797)Phe;0.787,0.812,0.746,0.719,0.742,0.809,0.778,0.762,(7.1987)+(-0.0795)Asn+(-0.1189)His+(0.0246)Thr+(0.0033)Pro+(-0.0306)Val+(0.0569)Leu;0.787,0.825,0.798,0.808,0.812,0.798,0.739,0.789,(6.9600)+(-0.0737)Asn+(0.0195)Thr+(-0.0139)Arg+(0.0039)Pro+(0.0062)Leu+(-0.1490)Trp;0.787,0.825,0.812,0.820,0.819,0.797,0.791,0.807,(6.6449)+(-0.0337)Asn+(0.0087)Pro+(0.0113)Tyr+(-0.1436)Met+(0.0096)Lys+(-0.1385)Trp;0.787,0.823,0.763,0.752,0.785,0.827,0.699,0.766,(7.3560)+(-0.1075)His+(0.0305)Thr+(-0.0290)Cit+(-0.0073)Arg+(0.0083)Pro+(-0.1742)Met;0.787,0.821,0.773,0.767,0.722,0.866,0.828,0.796,(2.9528)+(0.0038)Gly+(-0.0139)Ala+(-0.0983)Cit+(0.0056)Pro+(0.1767)Ile+(-0.0818)Leu;0.787,0.817,0.726,0.694,0.733,0.803,0.740,0.742,(5.6420)+(-0.0407)Asn+(0.0042)Gly+(-0.1364)His+(0.0176)Thr+(-0.0130)Arg+(0.0468)Ile;0.787,0.817,0.779,0.767,0.773,0.826,0.786,0.788,(3.6946)+(0.0112)Gln+(-0.1585)His+(-0.0185)Arg+(0.0026)Pro+(-0.0003)Lys+(0.0113)Leu;0.787,0.823,0.720,0.730,0.751,0.757,0.598,0.709,(-2.6583)+(0.0426)Ser+(0.0209)Thr+(-0.0878)Cit+(-0.0246)Tyr+(-0.4086)Met+(0.1333)Phe;0.787,0.822,0.800,0.807,0.808,0.805,0.764,0.796,(6.0893)+(0.0000)Gly+(0.0075)Pro+(0.0084)Tyr+(-0.1536)Met+(0.0210)Orn+(-0.1326)Trp;0.787,0.823,0.819,0.826,0.816,0.826,0.804,0.818,(6.8848)+(-0.0047)Ala+(-0.0029)Arg+(0.0122)Pro+(

0.0174)Tyr+(-0.1225)Met+(-0.1283)Trp;0.787,0.824,0.756,0.742,0.770,0.819,0.718,0.762,(6.6309)+(-0.1240)His+(0.0239)Thr+(-0.0064)Tyr+(0.0013)Val+(-0.1430)Met+(0.0297)Orn;0.787,0.823,0.755,0.743,0.777,0.826,0.690,0.759,(6.9095)+(0.0014)Gly+(-0.1220)His+(0.0262)Thr+(-0.0144)Arg+(-0.1408)Met+(0.0318)Orn;0.787,0.816,0.734,0.707,0.748,0.780,0.744,0.745,(4.7419)+(-0.1528)His+(0.0197)Thr+(-0.0186)Arg+(0.0002)Pro+(-0.0028)Leu+(0.0790)Phe;0.787,0.816,0.765,0.769,0.706,0.825,0.836,0.784,(5.8134)+(-0.0878)Asn+(-0.0117)Arg+(-0.0236)Tyr+(-0.0468)Val+(0.1829)Ile+(-0.0223)Leu;0.787,0.823,0.764,0.756,0.743,0.798,0.801,0.775,(5.3450)+(-0.1182)His+(-0.0060)Ala+(-0.0397)Cit+(0.0099)Pro+(-0.0383)Tyr+(0.1031)Phe;0.787,0.817,0.776,0.758,0.785,0.843,0.758,0.786,(4.3243)+(0.0096)Gln+(-0.1399)His+(-0.0579)Cit+(-0.0109)Arg+(0.0412)Orn+(-0.0037)Lys;0.787,0.817,0.750,0.723,0.780,0.831,0.701,0.759,(6.2558)+(0.0049)Gly+(-0.1072)His+(-0.0702)Cit+(0.0065)Pro+(-0.1060)Met+(0.0505)Orn;0.787,0.814,0.747,0.729,0.732,0.815,0.776,0.763,(6.4785)+(-0.1320)His+(0.0204)Thr+(-0.0032)Ala+(-0.0161)Tyr+(-0.0195)Val+(0.0476)Leu;0.787,0.812,0.764,0.752,0.747,0.814,0.797,0.777,(4.0507)+(0.0085)Gln+(-0.1479)His+(0.0041)Pro+(-0.0175)Tyr+(-0.0148)Val+(0.0351)Leu;0.787,0.825,0.765,0.752,0.771,0.852,0.723,0.775,(4.7411)+(0.0439)Ser+(-0.0287)Asn+(-0.1116)His+(-0.0070)Arg+(0.0178)Tyr+(-0.0977)Met;0.787,0.824,0.812,0.814,0.806,0.814,0.822,0.814,(6.4620)+(-0.0017)Ala+(-0.0257)Val+(-0.1343)Met+(0.0071)Lys+(0.0574)Leu+(-0.1335)Trp;0.787,0.823,0.799,0.813,0.799,0.799,0.760,0.793,(4.5679)+(0.0023)Gln+(0.0039)Pro+(-0.0040)Val+(0.0164)Orn+(-0.0031)Lys+(-0.1471)Trp;0.787,0.823,0.809,0.818,0.814,0.798,0.783,0.803,(6.2088)+(0.0098)Pro+(0.0139)Tyr+(-0.0037)Val+(-0.1736)Met+(0.0099)Lys+(-0.1368)Trp;0.787,0.820,0.806,0.809,0.792,0.845,0.800,0.812,(4.2548)+(-0.0413)Asn+(0.0010)Gly+(0.0112)Gln+(-0.1336)His+(-0.0909)Met+(0.0066)Lys;0.787,0.820,0.809,0.816,0.795,0.853,0.78

9,0.813,(4.4401)+(0.0004)Gly+(0.0120)Gln+(-0.1344)His+(-0.0003)Ala+(-0.0136)Arg+(-0.0773)Met;0.787,0.820,0.763,0.750,0.770,0.834,0.731,0.771,(4.6034)+(0.0073)Gln+(-0.1362)His+(0.0080)Thr+(-0.0667)Cit+(-0.0258)Tyr+(0.0432)Orn;0.787,0.814,0.718,0.691,0.680,0.838,0.780,0.747,(1.3936)+(0.0294)Ser+(-0.0660)Cit+(-0.0032)Pro+(-0.0461)Val+(-0.0219)Lys+(0.1626)Ile;0.787,0.820,0.797,0.817,0.790,0.783,0.770,0.790,(5.1227)+(-0.0039)Gly+(0.0030)Gln+(0.0094)Thr+(0.0050)Pro+(-0.0260)Tyr+(-0.1523)Trp;0.787,0.813,0.758,0.746,0.754,0.814,0.760,0.769,(4.1043)+(0.0086)Gln+(-0.1525)His+(0.0122)Thr+(-0.0395)Cit+(-0.0245)Tyr+(0.0174)Leu;0.787,0.821,0.801,0.807,0.812,0.807,0.757,0.795,(6.3523)+(-0.0084)Arg+(0.0076)Pro+(0.0089)Tyr+(-0.1429)Met+(0.0237)Orn+(-0.1316)Trp;0.787,0.824,0.818,0.824,0.797,0.824,0.844,0.822,(4.8764)+(-0.0011)Gly+(0.0036)Gln+(-0.0050)Ala+(-0.0216
)Val+(0.0481)Leu+(-0.1503)Trp;0.787,0.817,0.777,0.774,0.774,0.825,0.758,0.783,(4.2869)+(0.0100)Gln+(-0.1465)His+(-0.0216)Arg+(-0.0169)Tyr+(0.0275)Orn+(0.0032)Lys;0.787,0.816,0.763,0.754,0.755,0.815,0.766,0.772,(4.1844)+(0.0080)Gln+(-0.1445)His+(0.0046)Pro+(-0.0218)Tyr+(0.0242)Orn+(-0.0017)Lys;0.787,0.816,0.781,0.779,0.778,0.837,0.752,0.786,(4.4624)+(0.0102)Gln+(-0.1492)His+(0.0131)Thr+(-0.0228)Cit+(-0.0202)Arg+(0.0003)Lys;0.787,0.824,0.765,0.758,0.770,0.848,0.716,0.773,(5.2255)+(0.0426)Ser+(-0.0360)Asn+(-0.1027)His+(-0.0248)Cit+(-0.0029)Arg+(-0.0624)Met;0.787,0.823,0.811,0.822,0.791,0.813,0.824,0.813,(4.6273)+(-0.0015)Gly+(0.0035)Gln+(-0.0077)Ala+(0.0089)Pro+(0.0102)Leu+(-0.1527)Trp;0.787,0.823,0.799,0.811,0.788,0.821,0.777,0.799,(5.8946)+(0.0100)Thr+(-0.0069)Ala+(0.0097)Pro+(-0.0006)Val+(-0.0014)Lys+(-0.1438)Trp;0.787,0.823,0.810,0.821,0.813,0.808,0.773,0.804,(7.1090)+(-0.0292)Asn+(0.0011)Gly+(0.0098)Pro+(-0.0013)Val+(-0.1011)Met+(-0.1243)Trp;0.787,0.822,0.803,0.813,0.789,0.819,0.790,0.803,(6.1094)+(-0.0020)Gly+(0.0109

)Thr+(-0.0068)Ala+(0.0096)Pro+(-0.0010)Val+(-0.1452)Trp;0.787,0.825,0.840,0.857,0.832,0.825,0.820,0.833,(5.4217)+(-0.0924)Asn+(-0.0007)Gly+(0.0065)Gln+(-0.0030)Val+(0.0052)Lys+(-0.1380)Trp;0.787,0.824,0.808,0.810,0.803,0.812,0.808,0.808,(6.2007)+(0.0014)Gly+(-0.0267)Val+(-0.1515)Met+(0.0073)Lys+(0.0577)Leu+(-0.1343)Trp;0.787,0.824,0.816,0.829,0.819,0.815,0.779,0.810,(6.8433)+(-0.0739)Asn+(-0.0000)Gly+(-0.0057)Val+(0.0271)Orn+(0.0053)Lys+(-0.1292)Trp;0.787,0.824,0.747,0.757,0.747,0.800,0.681,0.746,(-2.9750)+(0.0416)Ser+(0.0167)Thr+(-0.0037)Ala+(-0.3742)Met+(-0.0111)Lys+(0.1181)Phe;0.787,0.823,0.773,0.807,0.734,0.804,0.744,0.772,(0.4084)+(0.0461)Ser+(-0.1738)Asn+(-0.0027)Ala+(-0.0466)Tyr+(-0.0158)Val+(0.1236)Phe;0.787,0.823,0.808,0.812,0.802,0.814,0.806,0.808,(6.5879)+(-0.0052)Ala+(-0.0022)Arg+(0.0116)Pro+(-0.1141)Met+(0.0144)Leu+(-0.1331)Trp;0.787,0.823,0.794,0.779,0.797,0.817,0.813,0.802,(5.1450)+(-0.1107)His+(-0.0018)Ala+(-0.0275)Cit+(-0.0032)Val+(-0.1540)Met+(0.1226)Phe;0.787,0.814,0.780,0.780,0.714,0.848,0.869,0.803,(4.1452)+(-0.1500)Asn+(0.0045)Gln+(-0.0017)Pro+(-0.0553)Val+(-0.0009)Lys+(0.1641)Ile;0.787,0.824,0.744,0.701,0.746,0.802,0.811,0.765,(4.6666)+(-0.0207)Asn+(-0.1375)His+(0.0202)Orn+(-0.0072)Lys+(0.0314)Ile+(0.0527)Phe;0.787,0.822,0.743,0.706,0.753,0.815,0.764,0.760,(6.3057)+(-0.1136)His+(-0.0652)Cit+(-0.0321)Tyr+(0.0483)Orn+(-0.0059)Lys+(0.0481)Ile;0.787,0.820,0.723,0.679,0.737,0.786,0.764,0.742,(4.3819)+(-0.1496)His+(0.0172)Thr+(-0.0322)Cit+(-0.0122)Arg+(0.0314)Ile+(0.0567)Phe;0.787,0.809,0.726,0.697,0.722,0.799,0.757,0.744,(5.7730)+(0.0013)Gly+(-0.1392)His+(0.0153)Thr+(0.0025)Pro+(-0.0221)Val+(0.0453)Leu;0.787,0.822,0.820,0.832,0.818,0.827,0.787,0.816,(7.0123)+(-0.0571)Asn+(-0.0030)Ala+(0.0007)Tyr+(-0.0027)Val+(0.0300)Orn+(-0.1248)Trp;0.787,0.821,0.756,0.713,0.776,0.825,0.782,0.774,(5.8277)+(0.0258)Asn+(-0.1135)His+(-0.0550)Cit+(-0.1635)Met+(0.0375)Orn+(0.0550)Ile;0.787,0.820,0.748,0

.747,0.765,0.777,0.693,0.746,(-2.7002)+(0.0533)Ser+(-0.0034)Gly+(-0.0768)Cit+(-0.3607)Met+(-0.0017)Leu+(0.1181)Phe;0.787,0.817,0.758,0.731,0.748,0.827,0.800,0.776,(6.3527)+(-0.1212)His+(-0.0032)Ala+(-0.0121)Tyr+(-0.0217)Val+(0.0386)Orn+(0.0453)Leu;0.787,0.815,0.735,0.721,0.742,0.835,0.687,0.746,(4.6950)+(0.0342)Ser+(-0.1255)His+(0.0083)Thr+(-0.0331)Cit+(-0.0073)Tyr+(-0.0018)Lys;0.787,0.829,0.745,0.745,0.769,0.793,0.662,0.742,(-2.4643)+(0.0514)Ser+(-0.0832)Cit+(-0.3366)Met+(-0.0107)Lys+(0.0036)Leu+(0.1232)Phe;0.787,0.827,0.824,0.839,0.819,0.818,0.799,0.819,(5.0869)+(-0.0866)Asn+(0.0058)Gln+(-0.0109)Tyr+(0.0174)Orn+(0.0053)Leu+(-0.1405)Trp;0.787,0.822,0.801,0.811,0.805,0.796,0.769,0.795,(6.6619)+(-0.0613)Asn+(-0.0002)Gly+(0.0053)Pro+(-0.0128)Tyr+(0.0227)Orn+(-0.1324)Trp;0.787,0.819,0.810,0.814,0.799,0.847,0.795,0.814,(4.2728)+(-0.0341)Asn+(0.0129)Gln+(-0.1371)His+(-0.0174)Arg+(-0.0831)Met+(0.0096)Lys;0.787,0.818,0.807,0.808,0.797,0.850,0.795,0.812,(4.6973)+(-0.0620)Asn+(0.0016)Gly+(0.0118)Gln+(-0.1276)His+(-0.0381)Cit+(-0.0029)Tyr;0.787,0.824,0.755,0.717,0.760,0.819,0.798,0.774,(5.5848)+(0.0306)Asn+(-0.1226)His+(-0.0015)Arg+(-0.1771)Met+(0.0231)Orn+(0.0592)Ile;0.787,0.823,0.826,0.843,0.819,0.835,0.788,0.821,(4.7879)+(0.0051)Gln+(-0.0024)Ala+(-0.0001)Val+(-0.1266)Met+(0.0226)Orn+(-0.1334)Trp;0.787,0.822,0.796,0.806,0.806,0.797,0.750,0.790,(6.1871)+(-0.0115)Arg+(0.0082)Pro+(-0.1481)Met+(0.0210)Orn+(0.0077)Lys+(-0.1363)Trp;0.787,0.811,0.760,0.736,0.761,0.818,0.778,0.773,(3.7081)+(0.0089)Gln+(-0.1592)His+(0.0080)Thr+(-0.0391)Cit+(0.0009)Pro+(0.0135)Leu;0.787,0.821,0.778,0.789,0.758,0.830,0.749,0.782,(0.6405)+(0.0473)Ser+(-0.1718)Asn+(-0.0052)Ala+(-0.0682)Cit+(-0.0130)Val+(0.1065)Phe;0.787,0.819,0.805,0.806,0.795,0.841,0.798,0.810,(4.3592)+(-0.0546)Asn+(0.0127)Gln+(-0.1433)His+(-0.0182)Arg+(0.0005)Val+(0.0061)Lys;0.787,0.824,0.806,0.812,0.799,0.808,0.805,0.806,(6.2276)+(-0.0051)Ala+(0.0117)Pro+(-0.1341)Met

+(0.0061)Lys+(0.0116)Leu+(-0.1371)Trp;0.787,0.825,0.758,0.723,0.762,0.816,0.801,0.776,(6.0402)+(-0.1166)His+(0.0012)Pro+(-0.0122)Tyr+(-0.1340)Met+(0.0254)Orn+(0.0548)Ile;0.787,0.825,0.787,0.775,0.783,0.806,0.812,0.794,(4.9010)+(-0.1191)His+(-0.0015)Ala+(0.0020)Arg+(-0.0150)Tyr+(-0.1492)Met+(0.1203)Phe;0.787,0.824,0.776,0.770,0.772,0.780,0.799,0.780,(5.1946)+(-0.0007)Gly+(-0.0206)Tyr+(0.0105)Orn+(-0.0071)Lys+(0.0549)Ile+(-0.1538)Trp;0.787,0.824,0.815,0.821,0.794,0.825,0.837,0.819,(4.7872)+(0.0034)Gln+(-0.0050)Ala+(-0.0004)Tyr+(-0.0217)Val+(0.0487)Leu+(-0.1506)Trp;0.787,0.823,0.738,0.740,0.696,0.824,0.758,0.755,(1.7009)+(0.0371)Ser+(-0.1177)Asn+(-0.0364)Tyr+(-0.0055)Lys+(0.1475)Ile+(-0.0709)Leu;0.787,0.821,0.781,0.765,0.787,0.800,0.796,0.787,(4.9041)+(0.0144)Asn+(-0.1178)His+(-0.0263)Cit+(-0.0156)Tyr+(-0.1606)Met+(0.1224)Phe;0.787,0.823,0.848,0.869,0.837,0.844,0.822,0.843,(5.5428)+(-0.0695)Asn+(-0.0007)Gly+(0.0074)Gln+(-0.0024)Ala+(-0.0081)Arg+(-0.1331)Trp;0.787,0.819,0.787,0.769,0.770,0.848,0.824,0.803,(3.9803)+(0.0098)Gln+(-0.1432)His+(-0.0065)Ala+(-0.0443)Cit+(0.0069)Pro+(0.0168)Leu;0.787,0.818,0.756,0.744,0.685,0.844,0.870,0.786,(3.1437)+(-0.0098)Ala+(-0.0442)Val+(0.0198)Orn+(-0.0119)Lys+(0.1882)Ile+(-0.0238)Leu;0.787,0.826,0.832,0.848,0.828,0.822,0.806,0.826,(5.3306)+(-0.0776)Asn+(-0.0005)Gly+(0.0069)Gln+(-0.0111)Arg+(0.0055)Pro+(-0.1403)Trp;0.787,0.821,0.789,0.807,0.788,0.783,0.752,0.782,(6.1978)+(-0.0030)Gly+(0.0120)Thr+(0.0061)Pro+(-0.0218)Tyr+(-0.0027)Val+(-0.1454)Trp;0.787,0.820,0.800,0.800,0.790,0.844,0.790,0.806,(4.1336)+(0.0121)Gln+(-0.1347)His+(-0.0133)Arg+(0.0080)Pro+(0.0032)Tyr+(-0.1213)Met;0.787,0.818,0.794,0.794,0.787,0.836,0.780,0.799,(3.8261)+(0.0121)Gln+(-0.1397)His+(-0.0179)Arg+(0.0082)Pro+(-0.1411)Met+(0.0094)Lys;0.787,0.822,0.777,0.781,0.782,0.860,0.699,0.780,(3.6368)+(0.0359)Ser+(-0.1246)Asn+(-0.0067)Ala+(-0.1130)Cit+(-0.0251)Tyr+(0.0576)Orn;0.787,0.815,0.721,0.687,0.727,0.797

,0.740,0.738,(5.2733)+(0.0034)Gly+(-0.1441)His+(0.0153)Thr+(-0.0153)A
rg+(-0.0025)Pro+(0.0498)Ile;0.787,0.827,0.747,0.730,0.728,0.832,0.770
,0.765,(-1.5216)+(0.0476)Ser+(-0.0076)Ala+(-0.0129)Arg+(0.0084)Tyr+(-
0.3041)Met+(0.0804)Ile;0.787,0.826,0.703,0.688,0.702,0.762,0.706,0.71
5,(-4.6425)+(0.0530)Ser+(-0.0013)Gln+(-0.0178)Tyr+(-0.4132)Met+(0.055
4)Ile+(0.0925)Phe;0.787,0.824,0.749,0.749,0.769,0.777,0.688,0.746,(-2
.6593)+(0.0546)Ser+(-0.0035)Gly+(-0.0725)Cit+(-0.0064)Arg+(-0.3561)Me
t+(0.1175)Phe;0.787,0.824,0.788,0.787,0.790,0.785,0.789,0.788,(3.7926
)+(0.0037)Gln+(-0.0219)Arg+(-0.0013)Pro+(0.0057)Orn+(0.0507)Ile+(-0.1
705)Trp;0.787,0.822,0.755,0.749,0.774,0.822,0.684,0.757,(6.9849)+(0.0
022)Gly+(-0.1143)His+(0.0293)Thr+(-0.0124)Arg+(0.0084)Pro+(-0.1694)Me
t;0.787,0.820,0.758,0.749,0.741,0.791,0.796,0.769,(5.2827)+(-0.1273)H
is+(-0.0069)Arg+(-0.0341)Tyr+(-0.0167)Val+(0.0265)Leu+(0.0980)Phe;0.7
87,0.817,0.803,0.802,0.794,0.846,0.793,0.809,(4.5328)+(-0.0675)Asn+(0
.0018)Gly+(0.0116)Gln+(-0.1307)His+(-0.0383)Cit+(0.0027)Lys;0.787,0.8
15,0.726,0.710,0.662,0.817,0.835,0.756,(1.8013)+(0.0396)Ser+(-0.0105)
Gly+(-0.0346)Tyr+(-0.0475)Val+(-0.0172)Lys+(0.1583)Ile;0.787,0.814,0.
783,0.776,0.774,0.828,0.786,0.791,(3.9170)+(0.0113)Gln+(-0.1548)His+(
-0.0178)Arg+(-0.0142)Tyr+(0.0013)Lys+(0.0141)Leu;0.787,0.824,0.787,0.
785,0.739,0.850,0.845,0.805,(3.8505)+(-0.0092)Ala+(0.0074)Pro+(-0.008
7)Tyr+(-0.1894)Met+(0.1694)Ile+(-0.0772)Leu;0.787,0.821,0.739,0.704,0
.748,0.811,0.762,0.757,(6.0458)+(-0.1195)His+(-0.0626)Cit+(0.0011)Arg
+(-0.0360)Tyr+(0.0452)Orn+(0.0455)Ile;0.787,0.825,0.792,0.784,0.799,0
.791,0.802,0.794,(5.8426)+(-0.0460)Asn+(-0.0104)Arg+(0.0130)Orn+(-0.0
018)Lys+(0.0485)Ile+(-0.1529)Trp;0.787,0.824,0.788,0.781,0.782,0.802,
0.809,0.794,(4.9590)+(-0.1151)His+(-0.0010)Ala+(-0.0135)Tyr+(-0.0037)
Val+(-0.1480)Met+(0.1255)Phe;0.787,0.823,0.785,0.775,0.782,0.797,0.80
6,0.790,(4.8566)+(-0.1161)His+(0.0015)Arg+(-0.0144)Tyr+(-0.0041)Val+(

-0.1549)Met+(0.1262)Phe;0.787,0.815,0.764,0.766,0.701,0.825,0.846,0.784,(5.6409)+(-0.1169)Asn+(0.0010)Pro+(-0.0254)Tyr+(-0.0542)Val+(0.0029)Lys+(0.1638)Ile;0.787,0.825,0.759,0.738,0.790,0.834,0.699,0.765,(7.0057)+(-0.1113)His+(0.0233)Thr+(-0.0658)Cit+(-0.0089)Tyr+(-0.1350)Met+(0.0483)Orn;0.787,0.824,0.810,0.819,0.791,0.817,0.819,0.812,(4.5835)+(0.0036)Gln+(-0.0076)Ala+(0.0088)Pro+(-0.0032)Lys+(0.0122)Leu+(-0.1509)Trp;0.787,0.823,0.760,0.754,0.776,0.819,0.699,0.762,(7.2784)+(-0.1124)His+(0.0306)Thr+(-0.0120)Arg+(0.0085)Pro+(-0.0062)Tyr+(-0.1613)Met;0.787,0.822,0.822,0.831,0.825,0.831,0.789,0.819,(6.8322)+(-0.0328)Asn+(-0.0025)Ala+(0.0144)Tyr+(-0.0914)Met+(0.0279)Orn+(-0.1282)Trp;0.787,0.816,0.758,0.751,0.680,0.841,0.876,0.787,(3.3177)+(-0.0106)Ala+(0.0043)Pro+(-0.0426)Val+(-0.0091)Lys+(0.1882)Ile+(-0.0258)Leu;0.787,0.815,0.779,0.773,0.772,0.837,0.766,0.787,(4.5407)+(0.0001)Gly+(0.0090)Gln+(-0.1438)His+(0.0102)Thr+(-0.0375)Cit+(-0.0038)Lys;0.787,0.827,0.826,0.839,0.821,0.810,0.813,0.821,(5.0000)+(-0.0925)Asn+(0.0060)Gln+(0.0042)Pro+(0.0022)Lys+(0.0040)Leu+(-0.1467)Trp;0.787,0.826,0.767,0.766,0.769,0.774,0.763,0.768,(5.5361)+(-0.0018)Gly+(0.0163)Thr+(-0.0208)Arg+(-0.0256)Tyr+(0.0536)Ile+(-0.1635)Trp;0.787,0.822,0.760,0.751,0.763,0.847,0.716,0.769,(4.5845)+(0.0393)Ser+(-0.1103)His+(-0.0003)Ala+(-0.0264)Cit+(-0.1136)Met+(0.0062)Lys;0.787,0.825,0.784,0.763,0.795,0.798,0.806,0.791,(4.6785)+(-0.1225)His+(-0.0262)Cit+(-0.1918)Met+(0.0069)Lys+(0.0017)Leu+(0.1136)P

he;0.787,0.821,0.729,0.698,0.725,0.800,0.765,0.747,(5.4545)+(0.0028)Gly+(-0.1318)His+(-0.0290)Tyr+(0.0261)Orn+(-0.0030)Lys+(0.0497)Ile;0.787,0.815,0.784,0.794,0.720,0.845,0.848,0.802,(4.4328)+(-0.0604)Asn+(0.0008)Gly+(-0.0086)Ala+(-0.0311)Tyr+(0.1687)Ile+(-0.0811)Leu;0.787,0.824,0.823,0.812,0.827,0.826,0.840,0.826,(6.9717)+(-0.0294)Asn+(0.0286)Tyr+(-0.0290)Val+(-0.1445)Met+(0.0620)Leu+(-0.1306)Trp;0.787,0.823,0

.737,0.738,0.649,0.834,0.848,0.767,(-2.2005)+(0.0225)Ser+(-0.0145)Ala+(0.0022)Pro+(0.1691)Ile+(-0.0939)Leu+(0.0488)Phe;0.787,0.817,0.721,0.686,0.728,0.799,0.741,0.739,(5.3720)+(0.0034)Gly+(-0.1406)His+(0.0158)Thr+(-0.0136)Arg+(-0.0047)Lys+(0.0493)Ile;0.787,0.825,0.793,0.791,0.792,0.787,0.803,0.793,(3.8544)+(-0.0006)Gly+(0.0040)Gln+(-0.0208)Arg+(-0.0010)Pro+(0.0519)Ile+(-0.1707)Trp;0.787,0.824,0.767,0.751,0.776,0.856,0.725,0.777,(4.8229)+(0.0438)Ser+(-0.0327)Asn+(-0.1058)His+(-0.0275)Cit+(0.0186)Tyr+(-0.1035)Met;0.787,0.822,0.819,0.827,0.827,0.824,0.777,0.814,(6.8880)+(-0.0371)Asn+(0.0125)Tyr+(-0.0028)Val+(-0.0975)Met+(0.0290)Orn+(-0.1261)Trp;0.787,0.821,0.808,0.824,0.804,0.794,0.785,0.802,(7.0252)+(-0.0702)Asn+(0.0080)Pro+(-0.0075)Tyr+(-0.0051)Val+(0.0083)Lys+(-0.1315)Trp;0.787,0.807,0.732,0.711,0.725,0.799,0.752,0.747,(6.2998)+(0.0005)Gly+(-0.1357)His+(0.0197)Thr+(-0.0212)Tyr+(-0.0201)Val+(0.0463)Leu;0.787,0.824,0.754,0.768,0.759,0.787,0.682,0.749,(-2.2134)+(0.0460)Ser+(-0.0723)Cit+(-0.0138)Tyr+(-0.0089)Val+(-0.3263)Met+(0.1384)Phe;0.787,0.823,0.814,0.814,0.810,0.818,0.819,0.815,(6.3677)+(-0.0055)Ala+(0.0108)Pro+(0.0166)Tyr+(-0.1397)Met+(0.0143)Leu+(-0.1369)Trp;0.787,0.821,0.813,0.829,0.818,0.832,0.744,0.806,(7.6566)+(-0.0670)Asn+(0.0227)Thr+(-0.0031)Ala+(-0.0113)Arg+(-0.0002)Tyr+(-0.1376)Trp;0.787,0.815,0.790,0.789,0.781,0.835,0.776,0.795,(4.1440)+(0.0003)Gly+(0.0114)Gln+(-0.1496)His+(-0.0176)Arg+(-0.0100)Tyr+(0.0039)Val;0.787,0.822,0.735,0.738,0.736,0.758,0.705,0.735,(-3.5947)+(0.0522)Ser+(-0.0066)Gly+(-0.0003)Gln+(0.0137)Thr+(-0.4252)Met+(0.1062)Phe;0.787,0.820,0.818,0.829,0.809,0.823,0.804,0.816,(7.3471)+(-0.0430)Asn+(-0.0052)Ala+(-0.0038)Arg+(0.0114)Pro+(-0.0009)Val+(-0.1262)Trp;0.787,0.819,0.818,0.820,0.805,0.858,0.811,0.824,(4.8873)+(-0.0511)Asn+(0.0127)Gln+(-0.1270)His+(-0.0017)Ala+(-0.0305)Cit+(-0.0089)Arg;0.787,0.829,0.712,0.698,0.704,0.766,0.722,0.723,(-5.0027)+(0.0531)Ser+(-0.0153)Tyr+(

-0.4241)Met+(-0.0124)Orn+(0.0595)Ile+(0.0955)Phe;0.787,0.825,0.821,0.831,0.802,0.829,0.828,0.823,(4.9260)+(0.0046)Gln+(-0.0045)Ala+(-0.0130)Arg+(-0.0212)Val+(0.0480)Leu+(-0.1484)Trp;0.787,0.821,0.734,0.694,0.747,0.806,0.763,0.753,(5.8970)+(-0.0348)Asn+(-0.1384)His+(0.0174)Thr+(-0.0135)Arg+(0.0191)Orn+(0.0386)Ile;0.787,0.818,0.765,0.749,0.743,0.808,0.822,0.780,(4.8281)+(-0.1293)His+(-0.0058)Ala+(0.0075)Pro+(-0.0052)Val+(0.0005)Lys+(0.0850)Phe;0.787,0.823,0.768,0.756,0.766,0.848,0.743,0.778,(4.9221)+(0.0465)Ser+(-0.0044)Gly+(-0.1111)His+(0.0002)Ala+(-0.0084)Arg+(-0.0830)Met;0.787,0.819,0.774,0.776,0.797,0.856,0.663,0.773,(3.3787)+(0.0386)Ser+(-0.1056)Asn+(-0.0962)Cit+(-0.0084)Val+(-0.1347)Met+(0.0542)Orn;0.787,0.817,0.746,0.735,0.668,0.837,0.872,0.778,(3.1030)+(-0.0023)Gln+(-0.0016)Thr+(-0.0105)Ala+(-0.0544)Val+(0.0197)Orn+(0.1716)Ile;0.787,0.811,0.750,0.746,0.669,0.834,0.869,0.779,(3.0915)+(-0.0014)Gln+(-0.0112)Ala+(0.0045)Pro+(-0.0433)Val+(0.1899)Ile+(-0.0302)Leu;0.787,0.811,0.768,0.749,0.759,0.827,0.792,0.782,(3.8455)+(0.0011)Gly+(0.0091)Gln+(-0.1494)His+(-0.0344)Cit+(-0.0131)Val+(0.0345)Leu;0.787,0.832,0.730,0.700,0.748,0.820,0.708,0.744,(-0.3426)+(0.0481)Ser+(-0.0782)Cit+(0.0043)Arg+(-0.2907)Met+(-0.0131)Lys+(0.0777)Ile;0.787,0.826,0.805,0.796,0.826,0.803,0.785,0.803,(6.9241)+(-0.0766)Cit+(0.0060)Arg+(0.0014)Tyr+(-0.0034)Lys+(0.0179)Leu+(-0.1597)Trp;0.787,0.823,0.793,0.800,0.781,0.805,0.791,0.794,(5.5565)+(-0.0072)Ala+(0.0091)Pro+(-0.0106)Tyr+(0.0174)Orn+(0.0087)Leu+(-0.1431)Trp;0.787,0.818,0.749,0.736,0.749,0.838,0.717,0.760,(4.6263)+(0.0377)Ser+(-0.1253)His+(-0.0017)Ala+(-0.0148)Arg+(-0.0004)Tyr+(0.0036)Lys;0.787,0.817,0.764,0.749,0.769,0.831,0.745,0.773,(4.3641)+(0.0081)Gln+(-0.1341)His+(-0.0659)Cit+(0.0045)Pro+(-0.0269)Tyr+(0.0430)Orn;0.787,0.813,0.718,0.680,0.726,0.806,0.739,0.738,(4.9001)+(0.0045)Gly+(-0.1376)His+(0.0115)Thr+(-0.0455)Cit+(-0.0029)Pro+(0.0531)Ile;0.787,0.824,0.820,0.839,0.80

4,0.830,0.799,0.818,(5.0502)+(0.0046)Gln+(-0.0064)Ala+(-0.0154)Arg+(0.0105)Pro+(-0.0002)Val+(-0.1417)Trp;0.787,0.822,0.819,0.817,0.812,0.862,0.810,0.825,(4.5685)+(-0.0378)Asn+(0.0125)Gln+(-0.1261)His+(-0.0348)Cit+(0.0087)Tyr+(-0.0804)Met;0.787,0.821,0.798,0.801,0.788,0.810,0.800,0.800,(5.5523)+(-0.0075)Ala+(0.0086)Pro+(0.0173)Orn+(-0.0028)Lys+(0.0097)Leu+(-0.1446)Trp;0.787,0.819,0.812,0.815,0.803,0.849,0.798,0.816,(4.7751)+(-0.0526)Asn+(0.0128)Gln+(-0.1297)His+(-0.0290)Cit+(-0.0098)Arg+(-0.0032)Tyr;0.787,0.824,0.766,0.786,0.748,0.802,0.721,0.764,(-2.8675)+(0.0425)Ser+(0.0002)Gln+(-0.0019)Ala+(-0.0118)Val+(-0.3404)Met+(0.1285)Phe;0.787,0.810,0.707,0.689,0.667,0.819,0.760,0.734,(1.4487)+(0.0302)Ser+(-0.0026)Gln+(-0.0371)Cit+(-0.0273)Arg+(-0.0540)Val+(0.1632)Ile;0.787,0.820,0.775,0.747,0.787,0.843,0.774,0.788,(7.0973)+(-0.0947)His+(-0.0067)Ala+(-0.0750)Cit+(0.0109)Pro+(-0.0756)Met+(0.0552)Orn;0.787,0.821,0.761,0.719,0.781,0.825,0.783,0.777,(6.1509)+(-0.1086)His+(-0.0561)Cit+(0.0001)Pro+(-0.1395)Met+(0.0389)Orn+(0.0514)Ile;0.787,0.827,0.791,0.788,0.791,0.792,0.798,0.792,(3.9614)+(0.0039)Gln+(-0.0190)Arg+(0.0074)Orn+(-0.0066)Lys+(0.0529)Ile+(-0.1653)Trp;0.787,0.825,0.763,0.750,0.768,0.854,0.721,0.773,(4.5281)+(0.0423)Ser+(-0.1155)His+(-0.0004)Ala+(-0.0083)Arg+(0.0206)Tyr+(-0.1179)Met;0.787,0.824,0.839,0.851,0.825,0.838,0.835,0.837,(5.0876)+(-0.0758)Asn+(0.0065)Gln+(-0.0040)Ala+(0.0004)Tyr+(0.0122)Leu+(-0.1426)Trp;0.787,0.824,0.804,0.809,0.812,0.797,0.778,0.799,(6.3671)+(-0.0659)Asn+(0.0002)Gly+(0.0040)Pro+(0.0196)Orn+(0.0030)Leu+(-0.1398)Trp;0.787,0.824,0.742,0.750,0.757,0.769,0.667,0.736,(-3.0947)+(0.0531)Ser+(-0.0064)Gly+(0.0200)Thr+(-0.0236)Arg+(-0.4204)Met+(0.1128)Phe;0.787,0.823,0.787,0.783,0.788,0.787,0.792,0.788,(5.9779)+(-0.0442)Asn+(-0.0100)Arg+(-0.0154)Tyr+(0.0147)Orn+(0.0495)Ile+(-0.1484)Trp;0.787,0.823,0.799,0.794,0.798,0.850,0.780,0.806,(3.8985)+(0.0021)Gly+(0.0115)Gln+(-0.1376)His+(-0.0402)

Cit+(0.0072)Val+(-0.1121)Met;0.787,0.820,0.803,0.805,0.828,0.814,0.743,0.797,(6.7621)+(0.0026)Gly+(-0.0747)Cit+(0.0053)Tyr+(0.0045)Val+(0.0003)Lys+(-0.1549)Trp;0.787,0.817,0.752,0.738,0.757,0.836,0.717,0.762,(4.9768)+(0.0416)Ser+(-0.0616)Asn+(-0.1115)His+(-0.0286)Cit+(-0.0015)Tyr+(0.0032)Lys;0.787,0.825,0.842,0.860,0.829,0.841,0.825,0.839,(5.3352)+(-0.0843)Asn+(0.0065)Gln+(-0.0030)Ala+(0.0013)Tyr+(0.0047)Lys+(-0.1383)Trp;0.787,0.823,0.803,0.814,0.797,0.815,0.777,0.801,(6.0857)+(-0.0068)Ala+(-0.0169)Arg+(0.0098)Pro+(0.0231)Orn+(0.0031)Lys+(-0.1397)Trp;0.787,0.820,0.807,0.825,0.821,0.810,0.730,0.796,(7.5021)+(-0.0804)Asn+(0.0206)Thr+(-0.0149)Arg+(-0.0037)Val+(0.0064)Lys+(-0.1398)Trp;0.787,0.818,0.725,0.708,0.733,0.795,0.707,0.736,(-1.2806)+(0.0489)Ser+(-0.0676)Asn+(0.0077)Thr+(0.0031)Pro+(-0.3263)Met+(0.0586)Ile;0.787,0.825,0.715,0.712,0.715,0.746,0.703,0.719,(-4.1446)+(0.0550)Ser+(-0.0068)Gly+(0.0110)Thr+(0.0091)Pro+(-0.4560)Met+(0.1049)Phe;0.787,0.828,0.787,0.785,0.743,0.858,0.834,0.805,(3.3461)+(0.0126)Thr+(-0.0079)Ala+(-0.2346)Met+(-0.0012)Lys+(0.1751)Ile+(-0.0768)Leu;0.787,0.822,0.792,0.791,0.744,0.854,0.848,0.809,(3.9042)+(-0.0069)Asn+(-0.0077)Ala+(-0.0072)Tyr+(-0.1736)Met+(0.1778)Ile+(-0.0794)Leu;0.787,0.816,0.781,0.780,0.756,0.838,0.796,0.793,(4.3480)+(0.0088)Gln+(-0.1383)His+(-0.0044)Ala+(0.0089)Pro+(-0.0132)Tyr+(0.0013)Lys;0.787,0.829,0.738,0.733,0.772,0.788,0.642,0.734,(-2.8648)+(0.0463)Ser+(-0.1010)Cit+(-0.3643)Met+(0.0294)Orn+(-0.0053)Leu+(0.1158)Phe;0.787,0.822,0.801,0.801,0.819,0.806,0.762,0.797,(7.0530)+(-0.0701)Cit+(-0.0006)Arg+(0.0087)Pro+(-0.0050)Tyr+(0.0022)Lys+(-0.1505)Trp;0.787,0.821,0.760,0.718,0.780,0.826,0.783,0.777,(6.1979)+(-0.1076)His+(-0.0569)Cit+(-0.1354)Met+(0.0398)Orn+(-0.0014)Lys+(0.0519)Ile;0.787,0.820,0.792,0.812,0.786,0.794,0.746,0.785,(4.7372)+(0.0024)Gln+(0.0054)Pro+(-0.0200)Tyr+(-0.0041)Val+(0.0176)Orn+(-0.1425)Trp;0.787,0.816,0.750,0.737,0.752,0.842,0.713,0.761,

(4.7454)+(0.0378)Ser+(-0.1201)His+(-0.0020)Ala+(-0.0221)Cit+(-0.0106)Arg+(0.0028)Lys;0.787,0.814,0.737,0.700,0.746,0.806,0.767,0.755,(6.1476)+(-0.0374)Asn+(-0.1285)His+(0.0189)Thr+(-0.0340)Cit+(-0.0057)Arg+(0.0451)Ile;0.787,0.811,0.780,0.769,0.778,0.833,0.774,0.789,(3.9742)+(0.0013)Gly+(0.0102)Gln+(-0.1480)His+(-0.0399)Cit+(0.0051)Val+(-0.0033)Lys;0.787,0.829,0.781,0.779,0.785,0.785,0.775,0.781,(3.8754)+(0.0032)Gln+(0.0100)Thr+(-0.0261)Arg+(-0.0019)Pro+(0.0522)Ile+(-0.1757)Trp;0.787,0.823,0.812,0.815,0.805,0.821,0.811,0.813,(6.9852)+(-0.0339)Asn+(0.0020)Gly+(-0.0266)Val+(-0.1015)Met+(0.0599)Leu+(-0.1255)Trp;0.787,0.822,0.824,0.841,0.808,0.828,0.810,0.822,(5.1634)+(-0.0015)Gly+(0.0049)Gln+(-0.0064)Ala+(-0.0151)Arg+(0.0104)Pro+(-0.1422)Trp;0.787,0.822,0.814,0.830,0.794,0.825,0.808,0.814,(4.8070)+(0.0035)Gln+(-0.0069)Ala+(0.0100)Pro+(-0.0004)Val+(-0.0004)Lys+(-0.1438)Trp;0.787,0.821,0.835,0.854,0.826,0.828,0.807,0.829,(4.8028)+(-0.0011)Gly+(0.0059)Gln+(-0.0014)Ala+(-0.1323)Met+(0.0057)Lys+(-0.1384)Trp;0.787,0.821,0.752,0.734,0.773,0.823,0.705,0.759,(7.3393)+(-0.0459)Asn+(-0.1097)His+(0.0183)Thr+(-0.0678)Cit+(-0.0293)Tyr+(0.0524)Orn;0.787,0.815,0.761,0.759,0.681,0.841,0.874,0.789,(3.7376)+(0.0002)Gln+(-0.0089)Ala+(-0.0204)Tyr+(-0.0493)Val+(-0.0086)Lys+(0.1738)Ile;0.786,0.825,0.763,0.751,0.771,0.829,0.729,0.770,(6.7416)+(-0.1205)His+(0.0232)Thr+(-0.0015)Ala+(-0.0035)Tyr+(-0.1342)Met+(0.0312)Orn;0.786,0.816,0.751,0.720,0.752,0.826,0.777,0.769,(6.1964)+(-0.1385)His+(0.0152)Thr+(-0.0048)Ala+(0.0263)Orn+(-0.0059)Lys+(0.0162)Leu;0.786,0.820,0.801,0.796,0.795,0.845,0.793,0.807,(4.1530)+(0.0115)Gln+(-0.1281)His+(-0.0346)Cit+(0.0083)Pro+(0.0031)Tyr+(-0.1343)Met;0.786,0.816,0.781,0.786,0.775,0.837,0.741,0.785,(4.7548)+(0.0101)Gln+(-0.1428)His+(0.0156)Thr+(-0.0228)Cit+(-0.0201)Arg+(-0.0148)Tyr;0.786,0.827,0.769,0.794,0.763,0.802,0.690,0.762,(-2.9113)+(0.0444)Ser+(0.0013)Gln+(-0.0183)Arg+(-0.0128)Val+(-0.3354)Met+(

0.1325)Phe;0.786,0.823,0.805,0.819,0.804,0.790,0.782,0.799,(4.7418)+(-0.0025)Gly+(0.0025)Gln+(0.0039)Pro+(-0.0049)Val+(0.0161)Orn+(-0.1492)Trp;0.786,0.821,0.755,0.749,
0.668,0.838,0.891,0.786,(1.2775)+(-0.0045)Thr+(-0.0115)Ala+(-0.0552)Val+(0.0130)Orn+(0.1661)Ile+(0.0344)Phe;0.786,0.815,0.779,0.764,0.777,0.827,0.787,0.789,(3.7115)+(0.0113)Gln+(-0.1547)His+(-0.0276)Cit+(-0.0145)Arg+(0.0025)Pro+(0.0122)Leu;0.786,0.815,0.759,0.731,0.756,0.822,0.798,0.777,(6.7647)+(-0.0517)Asn+(-0.1118)His+(-0.0290)Val+(0.0394)Orn+(0.0010)Lys+(0.0506)Leu;0.786,0.824,0.782,0.772,0.768,0.866,0.778,0.796,(1.9457)+(0.0052)Gln+(-0.0958)Cit+(-0.2489)Met+(0.0269)Orn+(0.1678)Ile+(-0.0826)Leu;0.786,0.822,0.812,0.830,0.790,0.823,0.801,0.811,(4.8737)+(0.0036)Gln+(-0.0066)Ala+(0.0104)Pro+(-0.0083)Tyr+(-0.0003)Val+(-0.1415)Trp;0.786,0.822,0.799,0.796,0.743,0.884,0.861,0.821,(2.6009)+(0.0045)Gln+(-0.0123)Ala+(-0.0967)Cit+(-0.0099)Lys+(0.1818)Ile+(-0.0797)Leu;0.786,0.822,0.805,0.818,0.810,0.793,0.768,0.797,(6.5662)+(-0.0092)Arg+(0.0108)Pro+(-0.0037)Val+(-0.1468)Met+(0.0122)Lys+(-0.1337)Trp;0.786,0.821,0.804,0.813,0.812,0.791,0.777,0.798,(5.9627)+(0.0008)Gly+(0.0088)Pro+(0.0134)Tyr+(-0.1746)Met+(0.0083)Lys+(-0.1402)Trp;0.786,0.818,0.817,0.819,0.801,0.859,0.818,0.824,(4.9103)+(-0.0572)Asn+(0.0120)Gln+(-0.1250)His+(-0.0020)Ala+(-0.0371)Cit+(-0.0001)Tyr;0.786,0.817,0.793,0.796,0.773,0.844,0.790,0.801,(4.4905)+(0.0108)Gln+(-0.1371)His+(-0.0038)Ala+(-0.0169)Arg+(0.0088)Pro+(-0.0102)Tyr;0.786,0.820,0.813,0.826,0.805,0.817,0.793,0.810,(6.9750)+(-0.0045)Ala+(-0.0025)Arg+(0.0128)Pro+(0.0006)Val+(-0.1008)Met+(-0.1249)Trp;0.786,0.821,0.742,0.713,0.739,0.798,0.787,0.759,(6.0648)+(-0.0151)Asn+(-0.1268)His+(-0.0003)Pro+(-0.0322)Tyr+(0.0284)Orn+(0.0464)Ile;0.786,0.820,0.702,0.677,0.645,0.808,0.814,0.736,(-1.0318)+(0.0330)Ser+(-0.0065)Thr+(-0.0515)Val+(-0.0250)Lys+(0.1537)Ile+(0.0432)Phe;0.786,0.824,0.791,0.792,0

.763,0.857,0.800,0.803,(1.9678)+(0.0064)Gln+(-0.0788)Cit+(-0.0113)Tyr+(-0.2324)Met+(0.1745)Ile+(-0.0813)Leu;0.786,0.823,0.751,0.742,0.765,0.816,0.702,0.756,(6.2377)+(0.0021)Gly+(-0.1200)His+(0.0246)Thr+(0.0082)Pro+(-0.1954)Met+(0.0068)Lys;0.786,0.822,0.782,0.765,0.789,0.800,0.800,0.788,(5.1069)+(-0.1164)His+(-0.0265)Cit+(-0.0175)Tyr+(-0.1497)Met+(0.0043)Leu+(0.1172)Phe;0.786,0.817,0.771,0.771,0.755,0.789,0.793,0.777,(5.5850)+(-0.0275)Asn+(-0.1190)His+(-0.0039)Arg+(-0.0354)Tyr+(-0.0053)Val+(0.1096)Phe;0.786,0.823,0.805,0.823,0.808,0.812,0.746,0.797,(4.8549)+(0.0036)Gln+(-0.0215)Arg+(0.0050)Pro+(-0.0050)Val+(0.0216)Orn+(-0.1450)Trp;0.786,0.823,0.828,0.844,0.822,0.832,0.797,0.824,(4.9123)+(-0.0016)Gly+(0.0053)Gln+(-0.0023)Ala+(-0.1257)Met+(0.0229)Orn+(-0.1337)Trp;0.786,0.819,0.762,0.730,0.766,0.829,0.788,0.778,(6.3539)+(-0.1052)His+(0.0069)Pro+(-0.0290)Val+(-0.1425)Met+(0.0366)Orn+(0.0550)Leu;0.786,0.811,0.780,0.768,0.776,0.831,0.785,0.790,(4.0205)+(0.0102)Gln+(-0.1471)His+(-0.0379)Cit+(0.0034)Pro+(0.0034)Val+(-0.0034)Lys;0.786,0.824,0.764,0.731,0.764,0.840,0.797,0.783,(4.8986)+(-0.1214)His+(-0.0087)Ala+(-0.0768)Cit+(0.0071)Pro+(0.0452)Orn+(0.0720)Phe;0.786,0.824,0.788,0.785,0.741,0.853,0.849,0.807,(3.5851)+(-0.0094)Ala+(0.0072)Pro+(-0.2080)Met+(0.0019)Lys+(0.1703)Ile+(-0.0785)Leu;0.786,0.825,0.741,0.717,0.737,0.808,0.765,0.756,(-0.7367)+(0.0583)Ser+(-0.0470)Asn+(-0.0056)Gly+(-0.2738)Met+(-0.0097)Lys+(0.0673)Ile;0.786,0.823,0.759,0.745,0.780,0.824,0.707,0.764,(7.1143)+(-0.0057)Asn+(-0.1205)His+(0.0270)Thr+(-0.0137)Arg+(-0.1379)Met+(0.0319)Orn;0.786,0.819,0.766,0.761,0.757,0.780,0.788,0.772,(5.5026)+(-0.0271)Asn+(-0.1227)His+(-0.0296)Cit+(-0.0417)Tyr+(0.0033)Lys+(0.1030)Phe;0.786,0.827,0.756,0.761,0.776,0.798,0.674,0.752,(-2.9953)+(0.0478)Ser+(0.0025)Gln+(-0.0868)Cit+(-0.3417)Met+(-0.0105)Lys+(0.1248)Phe;0.786,0.826,0.827,0.847,0.825,0.828,0.780,0.820,(5.3024)+(-0.0769)Asn+(0.0064)Gln+(-0.0133)Arg+(-0.0

074)Tyr+(0.0227)Orn+(-0.1355)Trp;0.786,0.823,0.826,0.846,0.823,0.835,0.776,0.820,(4.9308)+(0.0057)Gln+(-0.0023)Ala+(-0.0125)Arg+(-0.1144)Met+(0.0259)Orn+(-0.1318)Trp;0.786,0.819,0.768,0.761,0.759,0.783,0.791,0.774,(5.5545)+(-0.0246)Asn+(-0.1206)His+(-0.0316)Cit+(0.0018)Arg+(-0.0395)Tyr+(0.1041)Phe;0.786,0.815,0.750,0.731,0.755,0.832,0.732,0.763,(4.7187)+(0.0436)Ser+(-0.0040)Gly+(-0.1232)His+(-0.0151)Cit+(-0.0113)Arg+(0.0009)Lys;0.786,0.815,0.776,0.762,0.776,0.830,0.774,0.785,(3.6387)+(0.0017)Gly+(0.0110)Gln+(-0.1548)His+(-0.0297)Cit+(-0.0138)Arg+(0.0144)Leu;0.786,0.825,0.777,0.764,0.780,0.787,0.800,0.783,(4.9754)+(-0.0013)Gly+(0.0106)Thr+(-0.0031)Pro+(-0.0109)Lys+(0.0579)Ile+(-0.1662)Trp;0.786,0.820,0.801,0.801,0.794,0.846,0.786,0.807,(4.2323)+(0.0122)Gln+(-0.1285)His+(-0.0281)Cit+(-0.0087)Arg+(0.0084)Pro+(-0.1200)Met;0.786,0.820,0.727,0.705,0.725,0.792,0.739,0.740,(-1.9601)+(0.0532)Ser+(-0.0065)Gly+(0.0094)Thr+(-0.3832)Met+(-0.0045)Orn+(0.0663)Ile;0.786,0.814,0.780,0.766,0.774,0.828,0.792,0.790,(4.0100)+(0.0106)Gln+(-0.1475)His+(-0.0383)Cit+(-0.0142)Tyr+(-0.0045)Lys+(0.0184)Leu;0.786,0.819,0.802,0.808,0.809,0.796,0.778,0.798,(6.5836)+(-0.0249)Asn+(0.0013)Gly+(0.0079)Pro+(-0.1225)Met+(0.0116)Leu+(-0.1341)Trp;0.786,0.821,0.731,0.700,0.748,0.789,0.737,0.743,(4.5365)+(-0.1520)His+(0.0172)Thr+(-0.0198)Arg+(0.0196)Orn+(-0.0052)Leu+(0.0749)Phe;0.786,0.818,0.766,0.742,0.788,0.845,0.724,0.775,(6.7639)+(0.0043)Gly+(-0.1021)His+(-0.0039)Ala+(-0.0789)Cit+(-0.0577)Met+(0.0590)Orn;0.786,0.825,0.773,0.756,0.779,0.788,0.792,0.779,(4.8778)+(-0.1130)His+(-0.0265)Cit+(0.0073)Pro+(-0.0229)Tyr+(-0.1619)Met+(0.1195)Phe;0.786,0.822,0.820,0.819,0.806,0.829,0.849,0.826,(7.1168)+(-0.0569)Asn+(-0.0034)Ala+(0.0108)Tyr+(-0.0259)Val+(0.0559)Leu+(-0.1332)Trp;0.786,0.814,0.763,0.761,0.750,0.817,0.755,0.771,(4.3723)+(0.0081)Gln+(-0.1455)His+(0.0093)Thr+(0.0051)Pro+(-0.0209)Tyr+(-0.0019)Lys;0.786,0.825,0.829,0.845,0.831,0.824,0.785

,0.821,(5.1458)+(-0.0834)Asn+(0.0063)Gln+(-0.0156)Arg+(0.0196)Orn+(0.0041)Lys+(-0.1421)Trp;0.786,0.824,0.835,0.848,0.834,0.826,0.809,0.829,(4.4832)+(-0.0006)Gly+(0.0058)Gln+(0.0197)Tyr+(-0.1755)Met+(0.0055)Lys+(-0.1448)Trp;0.786,0.822,0.751,0.722,0.753,0.812,0.778,0.766,(5.4293)+(0.0058)Gly+(-0.1207)His+(-0.0016)Arg+(-0.1702)Met+(0.0048)Lys+(0.0652)Ile;0.786,0.822,0.789,0.800,0.796,0.796,0.739,0.783,(5.2979)+(0.0062)Thr+(0.0038)Pro+(-0.0043)Val+(0.0169)Orn+(-0.0035)Lys+(-0.1465)Trp;0.786,0.822,0.744,0.741,0.717,0.839,0.741,0.760,(1.0607)+(0.0440)Ser+(-0.1068)Asn+(-0.0058)Thr+(-0.0281)Arg+(0.1640)Ile+(-0.0865)Leu;0.786,0.819,0.748,0.743,0.660,0.834,0.886,0.781,(1.1403)+(-0.0123)Ala+(0.0029)Pro+(-0.0554)Val+(0.0091)Orn+(0.1642)Ile+(0.0322)Phe;0.786,0.818,0.760,0.736,0.747,0.826,0.805,0.778,(5.9140)+(-0.0976)His+(-0.0379)Cit+(-0.0042)Arg+(-0.0030)Pro+(0.1234)Ile+(-0.0513)Leu;0.786,0.810,0.756,0.753,0.677,0.838,0.872,0.785,(2.9882)+(-0.0009)Gln+(-0.0012)Thr+(-0.0102)Ala+(-0.0422)Val+(0.1946)Ile+(-0.0327)Leu;0.786,0.825,0.828,0.845,0.825,0.813,0.798,0.820,(5.1414)+(-0.0853)Asn+(0.0066)Gln+(-0.0142)Arg+(0.0052)Pro+(0.0059)Lys+(-0.1452)Trp;0.786,0.824,0.809,0.820,0.795,0.797,0.818,0.807,(4.9450)+(-0.0018)Gly+(0.0033)Gln+(-0.0116)Tyr+(-0.0215)Val+(0.0431)Leu+(-0.1518)Trp;0.786,0.823,0.741,0.753,0.737,0.788,0.681,0.740,(-3.3622)+(0.0419)Ser+(-0.0006)Gln+(0.0135)Thr+(-0.0041)Ala+(-0.3954)Met+(0.1123)Phe;0.786,0.823,0.756,0.739,0.772,0.822,0.721,0.763,(6.4567)+(-0.1252)His+(0.0234)Thr+(0.0006)Val+(-0.1607)Met+(0.0276)Orn+(0.0033)Lys;0.786,0.820,0.767,0.765,0.744,0.798,0.801,0.777,(4.9614)+(-0.1292)His+(-0.0025)Ala+(-0.0361)Tyr+(-0.0035)Val+(0.0036)Lys+(0.1043)Phe;0.786,0.820,0.764,0.760,0.750,0.778,0.792,0.770,(5.2615)+(-0.0298)Asn+(-0.1283)His+(-0.0424)Tyr+(0.0044)Lys+(-0.0019)Leu+(0.1011)Phe;0.786,0.819,0.753,0.749,0.739,0.768,0.784,0.760,(5.1372)+(-0.0290)Asn+(-0.1283)His+(0.0047)Pro+(-0.0467)Tyr+(0.0034)Ly

s+(0.0964)Phe;0.786,0.821,0.819,0.836,0.816,0.826,0.776,0.814,(4.6457)+(0.0048)Gln+(-0.0018)Val+(-0.1492)Met+(0.0202)Orn+(0.0039)Lys+(-0.1369)Trp;0.786,0.824,0.792,0.793,0.794,0.802,0.778,0.792,(5.9691)+(-0.0008)Gly+(-0.0165)Arg+(-0.0278)Val+(0.0301)Orn+(0.0493)Leu+(-0.1450)Trp;0.786,0.819,0.757,0.745,0.764,0.840,0.714,0.765,(5.1547)+(0.0424)Ser+(-0.0526)Asn+(-0.1103)His+(-0.0244)Cit+(-0.0056)Arg+(0.0021)Tyr;0.786,0.816,0.788,0.786,0.772,0.849,0.781,0.797,(4.6419)+(0.0002)Gly+(0.0087)Gln+(-0.1385)His+(0.0103)Thr+(-0.0032)Ala+(-0.0392)Cit;0.786,0.813,0.802,0.806,0.785,0.849,0.789,0.807,(4.4877)+(0.0001)Gly+(0.0113)Gln+(-0.1414)His+(-0.0017)Ala+(-0.0168)Arg+(-0.0023)Tyr;0.786,0.814,0.765,0.767,0.705,0.825,0.840,0.784,(5.8971)+(-0.0982)Asn+(-0.0103)Arg+(0.0014)Pro+(-0.0226)Tyr+(-0.0542)Val+(0.1663)Ile;0.786,0.825,0.728,0.722,0.725,0.763,0.728,0.734,(-3.4001)+(0.0587)Ser+(-0.0065)Gly+(0.0102)Pro+(-0.3843)Met+(-0.0113)Lys+(0.1097)Phe;0.786,0.815,0.752,0.718,0.770,0.840,0.740,0.767,(5.9911)+(0.0049)Gly+(-0.1180)His+(-0.0064)Ala+(-0.0806)Cit+(0.0531)Orn+(0.0148)Leu;0.786,0.826,0.828,0.847,0.822,0.817,0.798,0.821,(5.3632)+(-0.0764)Asn+(0.0069)Gln+(-0.0106)Arg+(0.0062)Pro+(-0.0081)Tyr+(-0.1371)Trp;0.786,0.823,0.743,0.740,0.718,0.840,0.731,0.758,(1.2817)+(0.0425)Ser+(-0.1107)Asn+(-0.0289)Arg+(-0.0032)Lys+(0.1608)Ile+(-0.0839)Leu;0.786,0.820,0.819,0.832,0.820,0.827,0.777,0.814,(7.1756)+(-0.0493)Asn+(-0.0028)Ala+(-0.0082)Arg+(-0.0027)Val+(0.0328)Orn+(-0.1235)Trp;0.786,0.819,0.817,0.828,0.821,0.826,0.773,0.812,(7.0668)+(-0.0318)Asn+(-0.0022)Ala+(-0.0059)Arg+(-0.0648)Met+(0.0316)Orn+(-0.1238)Trp;0.786,0.818,0.816,0.826,0.825,0.832,0.761,0.811,(7.1325)+(0.0021)Gly+(-0.0026)Ala+(-0.0661)Cit+(0.0020)Arg+(0.0037)Lys+(-0.1404)Trp;0.786,0.823,0.801,0.814,0.793,0.816,0.772,0.799,(6.2887)+(-0.0064)Ala+(-0.0146)Arg+(0.0102)Pro+(-0.0067)Tyr+(0.0252)Orn+(-0.1340)Trp;0.786,0.819,0.809,0.813,0.798,0.858,0.789,0.814,(4.4804)+(

0.0012)Gly+(0.0111)Gln+(-0.1261)His+(-0.0008)Ala+(-0.0349)Cit+(-0.0876)Met;0.786,0.809,0.719,0.706,0.674,0.825,0.770,0.744,(0.8151)+(0.0268)Ser+(-0.0399)Cit+(-0.0296)Arg+(-0.0019)Pro+(-0.0535)Val+(0.1624)Ile;0.786,0.823,0.752,0.722,0.754,0.815,0.780,0.768,(5.3638)+(0.0058)Gly+(-0.1211)His+(0.0020)Tyr+(-0.1744)Met+(0.0044)Lys+(0.0654)Ile;0.786,0.819,0.768,0.744,0.745,0.829,0.834,0.788,(6.3795)+(-0.1174)His+(-0.0057)Ala+(-0.0029)Arg+(-0.0165)Tyr+(0.0008)Lys+(0.0603)Ile;0.786,0.816,0.759,0.734,0.754,0.819,0.791,0.774,(6.9466)+(-0.0455)Asn+(-0.1099)His+(-0.0132)Tyr+(-0.0273)Val+(0.0419)Orn+(0.0499)Leu;0.786,0.813,0.780,0.775,0.768,0.825,0.787,0.789,(4.1164)+(-0.0003)Gly+(0.0096)Gln+(-0.1503)His+(-0.0131)Tyr+(0.0041)Val+(-0.0009)Lys;0.786,0.822,0.807,0.815,0.804,0.822,0.781,0.806,(6
.9418)+(-0.0745)Asn+(0.0201)Thr+(-0.0044)Ala+(-0.0056)Tyr+(0.0136)Leu+(-0.1456)Trp;0.786,0.821,0.742,0.723,0.735,0.795,0.765,0.755,(-0.8824)+(0.0578)Ser+(-0.0594)Asn+(-0.0057)Gly+(-0.0093)Tyr+(-0.2793)Met+(0.0616)Ile;0.786,0.817,0.753,0.737,0.754,0.827,0.738,0.764,(4.7848)+(0.0440)Ser+(-0.0047)Gly+(-0.1237)His+(-0.0139)Arg+(-0.0074)Tyr+(0.0025)Lys;0.786,0.817,0.797,0.785,0.784,0.851,0.818,0.810,(3.9952)+(0.0113)Gln+(-0.1475)His+(-0.0041)Ala+(-0.0336)Cit+(-0.0106)Arg+(0.0184)Leu;0.786,0.814,0.773,0.747,0.753,0.838,0.835,0.793,(6.6417)+(-0.0013)Asn+(-0.1056)His+(-0.0068)Ala+(-0.0427)Cit+(-0.0135)Tyr+(0.0653)Ile;0.786,0.810,0.762,0.742,0.762,0.819,0.776,0.774,(3.5249)+(0.0017)Gly+(0.0094)Gln+(-0.1551)His+(-0.0396)Cit+(0.0019)Pro+(0.0136)Leu;0.786,0.813,0.793,0.794,0.773,0.842,0.798,0.802,(4.4192)+(-0.0004)Gly+(0.0094)Gln+(-0.1421)His+(-0.0022)Ala+(-0.0057)Tyr+(0.0010)Lys;0.786,0.822,0.758,0.737,0.758,0.822,0.768,0.771,(5.0863)+(-0.1391)His+(0.0213)Thr+(-0.0056)Ala+(-0.0348)Cit+(-0.0125)Arg+(0.0879)Phe;0.786,0.810,0.759,0.758,0.702,0.835,0.825,0.780,(5.0923)+(-0.1079)Asn+(0.0032)Gly+(-0.0135

)Arg+(-0.0501)Val+(0.1815)Ile+(-0.0190)Leu;0.786,0.824,0.793,0.794,0.792,0.791,0.794,0.793,(5.9673)+(-0.0137)Arg+(0.0065)Pro+(-0.0245)Val+(0.0022)Lys+(0.0452)Leu+(-0.1489)Trp;0.786,0.820,0.753,0.755,0.767,0.775,0.704,0.750,(-3.2768)+(0.0513)Ser+(-0.0036)Gly+(0.0021)Gln+(-0.0809)Cit+(-0.3721)Met+(0.1156)Phe;0.786,0.821,0.763,0.796,0.732,0.789,0.722,0.760,(0.3612)+(0.0470)Ser+(-0.1755)Asn+(-0.0503)Tyr+(-0.0167)Val+(-0.0024)Lys+(0.1240)Phe;0.786,0.821,0.768,0.736,0.772,0.833,0.799,0.785,(6.3799)+(-0.1117)His+(-0.0277)Val+(-0.1321)Met+(0.0378)Orn+(0.0044)Lys+(0.0548)Leu;0.786,0.816,0.815,0.815,0.799,0.857,0.819,0.822,(4.7999)+(-0.0620)Asn+(0.0119)Gln+(-0.1271)His+(-0.0022)Ala+(-0.0370)Cit+(0.0034)Lys;0.786,0.818,0.812,0.828,0.817,0.825,0.747,0.804,(7.4779)+(-0.0721)Asn+(0.0213)Thr+(-0.0032)Ala+(-0.0137)Arg+(0.0054)Lys+(-0.1410)Trp;0.786,0.819,0.736,0.692,0.754,0.812,0.762,0.755,(5.7926)+(-0.0453)Asn+(-0.1276)His+(0.0144)Thr+(-0.0590)Cit+(0.0340)Orn+(0.0372)Ile;0.786,0.833,0.739,0.715,0.753,0.828,0.710,0.752,(-0.8477)+(0.0456)Ser+(0.0024)Gln+(-0.0795)Cit+(-0.2965)Met+(-0.0130)Lys+(0.0769)Ile;0.786,0.824,0.750,0.743,0.716,0.844,0.770,0.768,(1.0299)+(0.0406)Ser+(-0.0062)Ala+(0.0169)Pro+(-0.0390)Val+(-0.3027)Met+(0.0688)Leu;0.786,0.824,0.733,0.704,0.755,0.809,0.706,0.743,(-0.8284)+(0.0502)Ser+(-0.0038)Gly+(-0.0860)Cit+(-0.3321)Met+(0.0212)Orn+(0.0615)Ile;0.786,0.817,0.773,0.764,0.758,0.807,0.803,0.783,(5.4404)+(-0.1230)His+(-0.0037)Ala+(-0.0346)Cit+(-0.0335)Tyr+(0.0044)Leu+(0.1009)Phe;0.786,0.816,0.734,0.713,0.749,0.823,0.698,0.746,(4.2734)+(0.0403)Ser+(-0.1311)His+(-0.0254)Cit+(-0.0094)Arg+(-0.0088)Tyr+(0.0070)Val;0.786,0.826,0.785,0.767,0.790,0.803,0.807,0.792,(4.8988)+(-0.1163)His+(-0.0322)Cit+(0.0076)Arg+(-0.0165)Tyr+(-0.1569)Met+(0.1223)Phe;0.786,0.812,0.782,0.781,0.771,0.828,0.773,0.788,(4.1503)+(0.0112)Gln+(-0.1465)His+(-0.0183)Arg+(0.0055)Pro+(-0.0164)Tyr+(0.0024)Val;0.786,0.828,0.764,0.788,0.760,0.

798,0.684,0.758,(-2.5981)+(0.0460)Ser+(-0.0172)Arg+(-0.0127)Val+(-0.3305)Met+(-0.0001)Lys+(0.1332)Phe;0.786,0.818,0.744,0.728,0.747,0.795,0.745,0.754,(4.3861)+(-0.0414)Asn+(0.0065)Gly+(-0.1390)His+(-0.0088)Arg+(0.0021)Lys+(0.0865)Phe;0.786,0.814,0.781,0.775,0.775,0.831,0.772,0.788,(3.9341)+(0.0007)Gly+(0.0110)Gln+(-0.1518)His+(-0.0192)Arg+(0.0041)Pro+(0.0015)Val;0.786,0.810,0.771,0.765,0.758,0.816,0.780,0.780,(4.0640)+(-0.0003)Gly+(0.0093)Gln+(-0.1479)His+(0.0050)Pro+(-0.0194)Tyr+(0.0025)Val;0.786,0.824,0.814,0.819,0.805,0.817,0.815,0.814,(6.9079)+(-0.0408)Asn+(-0.0061)Ala+(-0.0046)Arg+(0.0101)Pro+(0.0110)Leu+(-0.1363)Trp;0.786,0.814,0.749,0.731,0.749,0.832,0.736,0.762,(4.6908)+(0.0423)Ser+(-0.0042)Gly+(-0.1208)His+(-0.0234)Cit+(-0.0060)Tyr+(-0.0008)Lys;0.786,0.823,0.758,0.744,0.779,0.824,0.704,0.763,(7.0474)+(-0.1217)His+(0.0270)Thr+(-0.0139)Arg+(0.0003)Val+(-0.1425)Met+(0.0317)Orn;0.786,0.815,0.760,0.731,0.757,0.826,0.799,0.778,(6.4835)+(-0.1196)His+(-0.0035)Ala+(-0.0083)Arg+(-0.0233)Val+(0.0398)Orn+(0.0462)Leu;0.786,0.814,0.750,0.743,0.666,0.840,0.881,0.782,(2.5032)+(-0.0024)Gly+(-0.0117)Ala+(0.0041)Pro+(-0.0542)Val+(0.0142)Orn+(0.1663)Ile;0.786,0.817,0.679,0.690,0.629,0.744,0.704,0.692,(-1.1893)+(0.0276)Ser+(-0.0042)Gln+(-0.0823)Tyr+(0.1613)Ile+(-0.0980)Leu+(0.0921)Phe;0.786,0.814,0.778,0.783,0.769,0.830,0.743,0.781,(4.5909)+(0.0100)Gln+(-0.1489)His+(0.0151)Thr+(-0.0253)Arg+(-0.0168)Tyr+(0.0031)Lys;0.786,0.825,0.754,0.749,0.736,0.837,0.748,0.767,(2.4531)+(0.0489)Ser+(-0.1113)Asn+(0.0135)Pro+(-0.0472)Val+(-0.2323)Met+(0.0769)Leu;0.786,0.824,0.813,0.815,0.800,0.856,0.801,0.818,(4.3296)+(0.0122)Gln+(-0.1369)His+(-0.0007)Ala+(-0.0134)Arg+(0.0121)Tyr+(-0.0947)Met;0.786,0.823,0.806,0.813,0.812,0.786,0.789,0.800,(6.5614)+(-0.0308)Asn+(0.0082)Pro+(-0.1342)Met+(0.0080)Lys+(0.0075)Leu+(-0.1391)Trp;0.786,0.823,0.803,0.813,0.791,0.820,0.788,0.803,(6.1788)+(-0.0020)Gly+(0.0117)Thr+(-0.0069)Ala+(0.0094)Pro+(-

0.0018)Lys+(-0.1453)Trp;0.786,0.822,0.796,0.798,0.732,0.854,0.884,0.817,(2.4330)+(-0.0833)Asn+(-0.0106)Ala+(-0.0040)Lys+(0.1633)Ile+(-0.0902)Leu+(0.0672)Phe;0.786,0.821,0.784,0.804,0.782,0.784,0.738,0.777,(4.6049)+(0.0020)Gln+(0.0049)Thr+(0.0042)Pro+(-0.0236)Tyr+(0.0127)Orn+(-0.1509)Trp;0.786,0.825,0.790,0.793,0.783,0.788,0.796,0.790,(4.1331)+(0.0043)Gln+(-0.0163)Arg+(-0.0161)Tyr+(-0.0049)Lys+(0.0565)Ile+(-0.1601)Trp;0.786,0.824,0.760,0.722,0.766,0.817,0.804,0.777,(5.9189)+(-0.1173)His+(-0.0003)Arg+(0.0008)Pro+(-0.1511)Met+(0.0238)Orn+(0.0546)Ile;0.786,0.817,0.808,0.808,0.800,0.845,0.800,0.813,(4.5188)+(-0.0588)Asn+(0.0129)Gln+(-0.1358)His+(-0.0263)Cit+(-0.0136)Arg+(0.0054)Lys;0.786,0.817,0.805,0.818,0.811,0.822,0.749,0.800,(6.5509)+(-0.0022)Gly+(0.0158)Thr+(-0.0048)Ala+(-0.0205)Arg+(0.0237)Orn+(-0.1466)Trp;0.786,0.824,0.819,0.838,0.802,0.827,0.799,0.816,(4.9287)+(0.0044)Gln+(-0.0066)Ala+(-0.0176)Arg+(0.0104)Pro+(0.0036)Lys+(-0.1453)Trp;0.786,0.823,0.768,0.740,0.771,0.837,0.789,0.784,(4.8656)+(-0.1194)His+(-0.0058)Ala+(-0.0731)Cit+(-0.0056)Val+(0.0495)Orn+(0.0841)Phe;0.786,0.819,0.793,0.809,0.791,0.789,0.756,0.786,(5.9139)+(-0.0021)Gly+(0.0060)Pro+(-0.0195)Tyr+(-0.0045)Val+(0.0227)Orn+(-0.1366)Trp;0.786,0.817,0.756,0.751,0.742,0.768,0.788,0.762,(5.2248)+(-0.0258)Asn+(-0.1249)His+(0.0051)Pro+(-0.0445)Tyr+(-0.0023)Leu+(0.1000)Phe;0.786,0.816,0.739,0.718,0.750,0.792,0.734,0.748,(4.9532)+(-0.1441)His+(0.0213)Thr+(-0.0238)Cit+(-0.0165)Arg+(-0.0076)Val+(0.0931)Phe;0.786,0.825,0.722,0.735,0.716,0.750,0.682,0.721,(-2.7526)+(0.0548)Ser+(-0.0941)Asn+(0.0101)Pro+(-0.0311)Tyr+(-0.3029)Met+(0.1164)Phe;0.786,0.822,0.759,0.750,0.777,0.821,0.703,0.763,(7.1743)+(-0.1150)His+(0.0305)Thr+(-0.0117)Arg+(0.0078)Pro+(0.0010)Val+(-0.1706)Met;0.786,0.821,0.758,0.746,0.771,0.814,0.723,0.763,(6.5977)+(-0.0097)Asn+(-0.1175)His+(0.0263)Thr+(0.0078)Pro+(-0.1869)Met+(0.0066)Lys;0.786,0.820,0.804,0.804,0.828,0.814,0.745,0.798,(6.7

126)+(0.0025)Gly+(-0.0764)Cit+(0.0024)Arg+(0.0045)Tyr+(0.0046)Val+(-0.1553)Trp;0.786,0.820,0.803,0.805,0.826,0.815,0.745,0.797,(6.7930)+(0.0024)Gly+(-0.0759)Cit+(0.0032)Arg+(0.0049)Val+(-0.0001)Lys+(-0.1535)Trp;0.786,0.819,0.777,0.775,0.725,0.867,0.828,0.799,(3.0282)+(0.0040)Gly+(-0.0020)Thr+(-0.0123)Ala+(-0.0949)Cit+(0.1835)Ile+(-0.0835)Leu;0.786,0.814,0.751,0.727,0.750,0.814,0.768,0.765,(7.5194)+(-0.0699)Asn+(-0.1200)His+(0.0277)Thr+(-0.0090)Arg+(-0.0295)Val+(0.0571)Leu;0.786,0.811,0.751,0.724,0.753,0.813,0.772,0.765,(7.5089)+(-0.0762)Asn+(-0.1166)His+(0.0268)Thr+(-0.0260)Cit+(-0.0284)Val+(0.0562)Leu;0.786,0.826,0.787,0.790,0.749,0.858,0.807,0.801,(3.9897)+(0.0185)Thr+(-0.0077)Ala+(-0.0202)Arg+(-0.2220)Met+(0.1802)Ile+(-0.0807)Leu;0.786,0.822,0.824,0.839,0.820,0.826,0.790,0.819,(4.8654)+(-0.0017)Gly+(0.0053)Gln+(-0.0012)Val+(-0.1400)Met+(0.0221)Orn+(-0.1343)Trp;0.786,0.822,0.811,0.829,0.790,0.822,0.801,0.811,(4.8601)+(0.0036)Gln+(-0.0066)Ala+(0.0103)Pro+(-0.0084)Tyr+(0.0000)Lys+(-0.1418)Trp;0.786,0.822,0.846,0.866,0.835,0.845,0.816,0.840,(5.4651)+(-0.0701)Asn+(0.0072)Gln+(-0.0025)Ala+(-0.0081)Arg+(0.0004)Val+(-0.1335)Trp;0.786,0.822,0.806,0.804,0.798,0.851,0.796,0.812,(4.0035)+(0.0125)Gln+(-0.1441)His+(-0.0134)Arg+(0.0072)Tyr+(0.0049)Val+(-0.1049)Met;0.786,0.818,0.738,0.771,0.704,0.759,0.708,0.736,(0.3504)+(0.0485)Ser+(-0.1893)Asn+(0.0108)Pro+(-0.0586)Tyr+(-0.0205)Val+(0.1221)Phe;0.786,0.817,0.748,0.734,0.739,0.819,0.748,0.760,(6.3372)+(-0.1229)His+(0.0125)Thr+(-0.0048)Ala+(0.0082)Pro+(-0.0254)Tyr+(0.0308)Orn;0.786,0.817,0.715,0.675,0.725,0.791,0.742,0.733,(3.4101)+(0.0071)Gly+(-0.1430)His+(-0.0446)Cit+(-0.0063)Arg+(0.0376)Ile+(0.0644)Phe;0.786,0.817,0.709,0.661,0.730,0.811,0.717,0.730,(4.4737)+(0.0048)Gly+(-0.1382)His+(0.0070)Thr+(-0.0666)Cit+(0.0338)Orn+(0.0418)Ile;0.786,0.828,0.746,0.753,0.764,0.789,0.659,0.741,(-2.1850)+(0.0498)Ser+(-0.0819)Cit+(-0.0160)Tyr+(-0.3104)Met+(-0.0095)Lys+(0.1302)Ph

e;0.786,0.825,0.789,0.789,0.795,0.799,0.768,0.788,(6.3018)+(-0.0020)Gly+(0.0192)Thr+(-0.0206)Arg+(-0.0265)Val+(0.0506)Leu+(-0.1578)Trp;0.786,0.824,0.723,0.728,0.732,0.769,0.656,0.721,(-3.5165)+(0.0516)Ser+(-0.0163)Arg+(0.0105)Pro+(-0.3830)Met+(-0.0079)Lys+(0.1147)Phe;0.786,0.821,0.791,0.793,0.724,0.851,0.881,0.812,(2.3174)+(-0.0911)Asn+(-0.0114)Ala+(0.0032)Pro+(0.1594)Ile+(-0.0912)Leu+(0.0655)Phe;0.786,0.819,0.748,0.766,0.706,0.794,0.757,0.756,(1.6841)+(-0.0726)Cit+(-0.0152)Arg+(-0.0759)Tyr+(0.1779)Ile+(-0.1048)Leu+(0.1043)Phe;0.786,0.817,0.778,0.761,0.767,0.818,0.820,0.791,(5.4350)+(-0.0221)Asn+(-0.1276)His+(-0.0043)Ala+(-0.0041)Arg+(0.0019)Leu+(0.0828)Phe;0.786,0.816,0.760,0.741,0.756,0.829,0.773,0.774,(6.7154)+(-0.0428)Asn+(-0.1199)His+(0.0141)Thr+(-0.0055)Ala+(0.0070)Pro+(0.0279)Orn;0.786,0.815,0.787,0.789,0.771,0.848,0.773,0.795,(4.7732)+(0.0086)Gln+(-0.1358)His+(0.0117)Thr+(-0.0027)Ala+(-0.0386)Cit+(-0.0095)Tyr;0.786,0.812,0.762,0.738,0.760,0.823,0.784,0.776,(6.9488)+(-0.0351)Asn+(-0.1316)His+(0.0211)Thr+(-0.0043)Ala+(-0.0025)Lys+(0.0181)Leu;0.786,0.811,0.767,0.747,0.757,0.825,0.798,0.782,(3.9022)+(0.0092)Gln+(-0.1489)His+(-0.0333)Cit+(0.0027)Pro+(-0.0142)Val+(0.0341)Leu;0.786,0.826,0.796,0.794,0.793,0.791,0.809,0.797,(4.0217)+(-0.0007)Gly+(0.0043)Gln+(-0.0177)Arg+(-0.0060)Lys+(0.0546)Ile+(-0.1660)Trp;0.786,0.824,0.759,0.724,0.763,0.816,0.803,0.777,(6.0837)+(-0.1171)His+(-0.0007)A

rg+(-0.0117)Tyr+(-0.1308)Met+(0.0261)Orn+(0.0559)Ile;0.786,0.815,0.778,0.778,0.769,0.836,0.757,0.785,(4.7119)+(0.0088)Gln+(-0.1390)His+(0.0119)Thr+(-0.0371)Cit+(-0.0136)Tyr+(-0.0025)Lys;0.786,0.820,0.731,0.742,0.664,0.775,0.810,0.748,(1.5843)+(-0.0628)Tyr+(-0.0377)Val+(-0.0097)Lys+(0.1840)Ile+(-0.0462)Leu+(0.0760)Phe;0.786,0.817,0.757,0.730,0.756,0.826,0.780,0.773,(6.5551)+(-0.0405)Asn+(-0.1329)His+(0.0166)Thr+(-0.0046)Ala+(0.0257)Orn+(0.0134)Leu;0.786,0.824,0.794,0.808,0.801,0.

794,0.746,0.787,(6.6863)+(-0.0824)Asn+(0.0164)Thr+(-0.0160)Tyr+(0.016
4)Orn+(0.0066)Leu+(-0.1427)Trp;0.786,0.824,0.848,0.866,0.837,0.847,0.
822,0.843,(5.4570)+(-0.0712)Asn+(0.0072)Gln+(-0.0026)Ala+(-0.0084)Arg
+(0.0048)Tyr+(-0.1345)Trp;0.786,0.823,0.800,0.807,0.807,0.796,0.766,0
.794,(5.8538)+(0.0077)Pro+(0.0085)Tyr+(-0.1694)Met+(0.0178)Orn+(0.005
6)Lys+(-0.1380)Trp;0.786,0.818,0.760,0.749,0.758,0.822,0.744,0.768,(7
.1170)+(-0.0419)Asn+(-0.1189)His+(0.0176)Thr+(-0.0025)Ala+(-0.0208)Ty
r+(0.0344)Orn;0.786,0.816,0.799,0.791,0.787,0.851,0.811,0.810,(4.2422
)+(0.0106)Gln+(-0.1422)His+(-0.0039)Ala+(-0.0417)Cit+(0.0071)Val+(-0.
0022)Lys;0.786,0.829,0.773,0.763,0.782,0.787,0.774,0.776,(5.3018)+(-0
.0010)Gly+(0.0145)Thr+(-0.0194)Arg+(-0.0070)Lys+(0.0541)Ile+(-0.1670)
Trp;0.786,0.820,0.818,0.828,0.809,0.822,0.807,0.816,(7.2774)+(-0.0426
)Asn+(-0.0053)Ala+(-0.0041)Arg+(0.0111)Pro+(0.0014)Tyr+(-0.1281)Trp;0
.785,0.824,0.731,0.703,0.746,0.803,0.721,0.743,(-0.9032)+(0.0528)Ser+
(-0.0037)Gly+(-0.0704)Cit+(0.0046)Pro+(-0.3433)Met+(0.0636)Ile;0.785,
0.823,0.775,0.769,0.770,0.781,0.795,0.779,(5.0682)+(-0.0008)Pro+(-0.0
195)Tyr+(0.0102)Orn+(-0.0073)Lys+(0.0560)Ile+(-0.1541)Trp;0.785,0.823
,0.739,0.698,0.741,0.802,0.797,0.759,(4.4885)+(-0.1451)His+(-0.0098)A
rg+(-0.0029)Pro+(0.0199)Orn+(0.0316)Ile+(0.0491)Phe;0.785,0.820,0.785
,0.757,0.776,0.842,0.840,0.804,(6.7740)+(-0.0964)His+(-0.0060)Ala+(-0
.0391)Cit+(0.0040)Tyr+(-0.1135)Met+(0.0712)Ile;0.785,0.820,0.773,0.75
6,0.759,0.811,0.823,0.787,(5.3575)+(-0.0227)Asn+(-0.1246)His+(-0.0062
)Ala+(-0.0059)Arg+(0.0073)Pro+(0.0812)Phe;0.785,0.818,0.782,0.793,0.7
16,0.845,0.842,0.799,(4.5870)+(-0.0700)Asn+(0.0069)Thr+(-0.0087)Ala+(
-0.0359)Tyr+(0.1660)Ile+(-0.0800)Leu;0.785,0.817,0.757,0.745,0.744,0.
788,0.794,0.768,(5.2380)+(-0.1248)His+(-0.0271)Cit+(-0.0363)Tyr+(-0.0
148)Val+(0.0245)Leu+(0.0990)Phe;0.785,0.821,0.786,0.785,0.739,0.853,0
.837,0.804,(3.4524)+(0.0016)Gly+(-0.0078)Ala+(-0.0039)Tyr+(-0.1920)Me

t+(0.1793)Ile+(-0.0794)Leu;0.785,0.824,0.845,0.858,0.839,0.846,0.821,0.841,(4.7530)+(-0.0005)Gly+(0.0062)Gln+(-0.0019)Ala+(0.0226)Tyr+(-0.1500)Met+(-0.1386)Trp;0.785,0.821,0.758,0.752,0.761,0.840,0.710,0.766,(4.5711)+(0.0401)Ser+(-0.1162)His+(-0.0001)Ala+(-0.0120)Arg+(-0.1109)Met+(0.0086)Lys;0.785,0.815,0.754,0.728,0.742,0.820,0.802,0.773,(5.7809)+(-0.0989)His+(-0.0363)Cit+(-0.0060)Arg+(0.0013)Lys+(0.1183)Ile+(-0.0512)Leu;0.785,0.822,0.816,0.822,0.823,0.811,0.789,0.811,(7.1303)+(-0.0266)Asn+(0.0091)Pro+(0.0135)Tyr+(-0.0016)Val+(-0.1190)Met+(-0.1277)Trp;0.785,0.822,0.817,0.835,0.794,0.819,0.815,0.816,(5.0532)+(-0.0021)Gly+(0.0041)Gln+(-0.0065)Ala+(0.0104)Pro+(-0.0102)Tyr+(-0.1414)Trp;0.785,0.823,0.766,0.785,0.751,0.807,0.719,0.765,(-2.6795)+(0.0434)Ser+(-0.0019)Ala+(-0.0109)Val+(-0.3295)Met+(-0.0037)Lys+(0.1288)Phe;0.785,0.817,0.750,0.716,0.746,0.793,0.815,0.768,(4.8463)+(-0.0206)Asn+(-0.1377)His+(-0.0051)Arg+(-0.0021)Pro+(0.0343)Ile+(0.0555)Phe;0.785,0.815,0.741,0.706,0.742,0.812,0.783,0.761,(5.9542)+(-0.1260)His+(0.0030)Pro+(-0.0247)Val+(0.0350)Orn+(-0.0032)Lys+(0.0452)Leu;0.785,0.821,0.817,0.829,0.814,0.820,0.792,0.814,(6.7173)+(-0.0610)Asn+(0.0003)Gly+(-0.0036)Ala+(0.0254)Orn+(0.0039)Lys+(-0.1323)Trp;0.785,0.817,0.746,0.742,0.728,0.767,0.779,0.754,(4.7163)+(-0.1301)His+(0.0056)Pro+(-0.0453)Tyr+(-0.0058)Val+(0.0030)Lys+(0.1027)Phe;0.785,0.811,0.756,0.751,0.678,0.840,0.875,0.786,(2.5756)+(-0.0021)Gly+(-0.0105)Ala+(-0.0437)Val+(0.0140)Orn+(0.1904)Ile+(-0.0316)Leu;0.785,0.826,0.828,0.843,0.830,0.825,0.789,0.822,(5.0903)+(-0.0789)Asn+(0.0063)Gln+(-0.0138)Arg+(0.0196)Orn+(0.0043)Leu+(-0.1425)Trp;0.785,0.824,0.762,0.762,0.766,0.774,0.743,0.761,(5.1683)+(0.0139)Thr+(-0.0225)Arg+(-0.0251)Tyr+(0.0081)Orn+(0.0519)Ile+(-0.1626)Trp;0.785,0.824,0.805,0.811,0.813,0.795,0.778,0.799,(6.3800)+(-0.0705)Asn+(0.0002)Gly+(0.0043)Pro+(0.0192)Orn+(0.0027)Lys+(-0.1396)Trp;0.785,0.818,0.746,0.726,0.732,0.819,0.778,0.764,(

5.4071)+(0.0039)Gly+(-0.1086)His+(-0.0132)Arg+(-0.0026)Pro+(0.1197)Ile+(-0.0486)Leu;0.785,0.818,0.793,0.791,0.732,0.876,0.863,0.816,(2.1860)+(0.0038)Gln+(-0.0037)Thr+(-0.0126)Ala+(-0.0950)Cit+(0.1854)Ile+(-0.0863)Leu;0.785,0.814,0.782,0.774,0.775,0.828,0.784,0.790,(3.9517)+(0.0115)Gln+(-0.1498)His+(-0.0285)Cit+(-0.0125)Arg+(-0.0143)Tyr+(0.0158)Leu;0.785,0.821,0.798,0.813,0.799,0.797,0.754,0.791,(4.6847)+(0.0025)Gln+(0.0063)Thr+(0.0041)Pro+(-0.0026)Val+(-0.0036)Lys+(-0.1518)Trp;0.785,0.819,0.734,0.719,0.737,0.800,0.719,0.744,(-1.5540)+(0.0473)Ser+(-0.0743)Asn+(0.0014)Gln+(0.0079)Thr+(-0.3195)Met+(0.0612)Ile;0.785,0.824,0.789,0.792,0.789,0.801,0.771,0.788,(5.9475)+(-0.0157)Arg+(-0.0073)Tyr+(-0.0273)Val+(0.0306)Orn+(0.0493)Leu+(-0.1428)Trp;0.785,0.820,0.763,0.758,0.797,0.850,0.643,0.762,(2.7432)+(0.0413)Ser+(-0.0876)Asn+(-0.1025)Cit+(-0.1471)Met+(0.0513)Orn+(-0.0082)Lys;0.785,0.818,0.714,0.675,0.728,0.802,0.725,0.733,(5.0051)+(0.0034)Gly+(-0.1462)His+(0.0129)Thr+(-0.0172)Arg+(0.0180)Orn+(0.0421)Ile;0.785,0.824,0.788,0.783,0.789,0.795,0.798,0.791,(5.6751)+(-0.0484)Asn+(0.0017)Gly+(-0.0090)Arg+(0.0002)Pro+(0.0522)Ile+(-0.1539)Trp;0.785,0.821,0.787,0.785,0.781,0.793,0.798,0.789,(5.8431)+(-0.0447)Asn+(0.0014)Gly+(-0.0077)Arg+(-0.0111)Tyr+(0.0541)Ile+(-0.1500)Trp;0.785,0.821,0.772,0.754,0.755,0.811,0.828,0.787,(5.2217)+(-0.0299)Asn+(-0.1258)His+(-0.0062)Ala+(0.0069)Pro+(0.0010)Lys+(0.0792)Phe;0.785,0.820,0.813,0.825,0.822,0.819,0.761,0.807,(7.1135)+(-0.0353)Asn+(-0.0061)Arg+(-0.0026)Val+(-0.0726)Met+(0.0324)Orn+(-0.1220)Trp;0.785,0.820,0.783,0.775,0.730,0.867,0.854,0.806,(3.5887)+(-0.0004)Thr+(-0.0136)Ala+(-0.0899)Cit+(0.0056)Pro+(0.1742)Ile+(-0.0821)Leu;0.785,0.825,0.811,0.811,0.804,0.818,0.821,0.814,(6.8962)+(-0.0679)Asn+(0.0017)Gly+(0.0061)Tyr+(-0.0269)Val+(0.0542)Leu+(-0.1337)Trp;0.785,0.818,0.777,0.773,0.758,0.802,0.807,0.785,(5.5605)+(-0.0199)Asn+(-0.1228)His+(-0.0027)Ala+(-0.0033)Arg+(-0.0336)Tyr+(0.

1027)Phe;0.785,0.825,0.810,0.817,0.798,0.804,0.822,0.810,(4.8835)+(-0.0015)Gly+(0.0034)Gln+(-0.0224)Val+(-0.0042)Lys+(0.0455)Leu+(-0.1530)Trp;0.785,0.826,0.783,0.783,0.791,0.802,0.753,0.782,(6.0839)+(0.0189)Thr+(-0.0192)Arg+(-0.0267)Val+(-0.0032)Lys+(0.0529)Leu+(-0.1561)Trp;0.785,0.822,0.788,0.783,0.744,0.852,0.843,0.806,(3.4540)+(-0.0080)Ala+(-0.1982)Met+(0.0127)Orn+(-0.0005)Lys+(0.1759)Ile+(-0.0802)Leu;0.785,0.822,0.809,0.808,0.797,0.847,0.809,0.815,(4.2132)+(-0.0379)Asn+(0.0115)Gln+(-0.1353)His+(0.0065)Tyr+(-0.1009)Met+(0.0060)Lys;0.785,0.815,0.752,0.740,0.753,0.845,0.716,0.763,(4.8090)+(0.0382)Ser+(-0.1187)His+(-0.0019)Ala+(-0.0234)Cit+(-0.0091)Arg+(0.0033)Tyr;0.785,0.822,0.760,0.745,0.779,0.822,0.714,0.765,(6.8353)+(-0.1111)His+(0.0275)Thr+(-0.0328)Cit+(0.0083)Pro+(-0.1937)Met+(0.0058)Lys;0.785,0.821,0.756,0.733,0.746,0.823,0.791,0.773,(4.7822)+(-0.1357)His+(0.0162)Thr+(-0.0074)Ala+(-0.0459)Cit+(0.0061)Pro+(0.0823)Phe;0.785,0.821,0.800,0.798,0.788,0.847,0.794,0.807,(3.9132)+(0.0009)Gly+(0.0105)Gln+(-0.1398)His+(0.0109)Tyr+(-0.1331)Met+(0.0054)Lys;0.785,0.821,0.781,0.778,0.732,0.872,0.825,0.802,(3.5260)+(0.0043)Gly+(-0.0119)Ala+(-0.0950)Cit+(-0.0072)Lys+(0.1809)Ile+(-0.0784)Leu;0.785,0.819,0.761,0.757,0.738,0.790,0.796,0.771,(5.2628)+(-0.1241)His+(-0.0050)Ala+(-0.0079)Arg+(0.0089)Pro+(-0.0385)Tyr+(0.0995)Phe;0.785,0.823,0.797,0.810,0.782,0.812,0.783,0.797,(5.7775)+(-0.0067)Ala+(0.0098)Pro+(-0.0099)Tyr+(0.0203)Orn+(-0.0003)Lys+(-0.1365)Trp;0.785,0.823,0.811,0.812,0.804,0.825,0.816,0.814,(6.5046)+(0.0016)Gly+(-0.0019)Ala+(-0.0251)Val+(-0.1172)Met+(0.0599)Leu+(-0.1295)Trp;0.785,0.822,0.762,0.795,0.725,0.809,0.718,0.762,(-0.1914)+(0.0469)Ser+(-0.1437)Asn+(-0.0053)Ala+(-0.0164)Arg+(-0.0508)Tyr+(0.0985)Phe;0.785,0.820,0.790,0.811,0.786,0.792,0.741,0.782,(4.8284)+(0.0027)Gln+(0.0081)Thr+(0.0049)Pro+(-0.0202)Tyr+(-0.0036)Lys+(-0.1492)Trp;0.785,0.819,0.794,0.798,0.803,0.793,0.764,0.789,(5.9423)+(0.0001)G

ly+(0.0070)Pro+(-0.1519)Met+(0.0190)Orn+(0.0088)Leu+(-0.1361)Trp;0.785,0.816,0.792,0.790,0.774,0.843,0.797,0.801,(4.2125)+(0.0106)Gln+(-0.1444)His+(-0.0044)Ala+(-0.0198)Arg+(0.0079)Pro+(0.0045)Lys;0.785,0.820,0.758,0.753,0.730,0.793,0.805,0.770,(4.9122)+(-0.1282)His+(-0.0050)Ala+(0.0082)Pro+(-0.0401)Tyr+(0.0019)Lys+(0.0959)Phe;0.785,0.818,0.769,0.755,0.751,0.811,0.814,0.783,(5.1813)+(-0.1252)His+(-0.0057)Ala+(-0.0097)Arg+(0.0083)Pro+(-0.0057)Val+(0.0898)Phe;0.785,0.811,0.756,0.753,0.675,0.837,0.877,0.786,(2.7996)+(-0.0017)Gly+(-0.0112)Ala+(0.0043)Pro+(-0.0427)Val+(0.1895)Ile+(-0.0317)Leu;0.785,0.822,0.784,0.801,0.785,0.775,0.745,0.776,(5.7931)+(-0.0033)Gly+(0.0095)Thr+(0.0045)Pro+(-0.0265)Tyr+(0.0156)Orn+(-0.1487)Trp;0.785,0.817,0.774,0.769,0.757,0.805,0.800,0.783,(5.4164)+(-0.1202)His+(-0.0031)Ala+(-0.0329)Cit+(-0.0329)Tyr+(-0.0019)Val+(0.1081)Phe;0.785,0.826,0.763,0.782,0.745,0.810,0.719,0.764,(-2.8441)+(0.0406)Ser+(-0.0023)Ala+(-0.0136)Val+(-0.3380)Met+(0.0157)Orn+(0.1258)Phe;0.785,0.822,0.808,0.820,0.813,0.806,0.769,0.802,(7.0520)+(-0.0273)Asn+(0.0011)Gly+(-0.0014)Arg+(0.0094)Pro+(-0.1025)Met+(-0.1261)Trp;0.785,0.821,0.757,0.744,0.768,0.816,0.723,0.763,(6.4814)+(-0.1192)His+(0.0260)Thr+(0.0078)Pro+(0.0003)Val+(-0.1937)Met+(0.0063)Lys;0.785,0.822,0.810,0.825,0.824,0.815,0.739,0.801,(7.7581)+(-0.0718)Asn+(-0.0011)Gly+(0.0226)Thr+(-0.0121)Arg+(-0.0025)Val+(-0.1385)Trp;0.785,0.816,0.808,0.809,0.795,0.847,0.804,0.814,(4.7001)+(-0.0636)Asn+(0.0119)Gln+(-0.1292)His+(-0.0357)Cit+(-0.0068)Tyr+(0.0032)Lys;0.785,0.815,0.749,0.716,0.783,0.826,0.709,0.759,(6.1260)+(0.0053)Gly+(-0.1162)His+(-0.0688)Cit+(-0.1047)Met+(0.0483)Orn+(0.0144)Leu;0.785,0.812,0.779,0.774,0.771,0.828,0.769,0.786,(3.9010)+(0.0007)Gly+(0.0109)Gln+(-0.1521)His+(-0.0211)Arg+(0.0043)Pro+(0.0032)Lys;0.785,0.812,0.796,0.799,0.782,0.842,0.787,0.802,(4.2540)+(0.0004)Gly+(0.0111)Gln+(-0.1463)His+(-0.0022)Ala+(-0.0201)Arg+(0.0052)Lys;0.785,0.821,

0.742,0.723,0.741,0.802,0.751,0.754,(-0.9035)+(0.0585)Ser+(-0.0515)As
n+(-0.0053)Gly+(-0.0094)Arg+(
-0.2896)Met+(0.0620)Ile;0.785,0.814,0.743,0.714,0.742,0.825,0.764,0.7
61,(5.6826)+(0.0019)Gly+(-0.1419)His+(0.0117)Thr+(-0.0049)Ala+(0.0245
)Orn+(0.0147)Leu;0.785,0.812,0.760,0.758,0.704,0.833,0.831,0.781,(5.1
196)+(-0.1220)Asn+(0.0033)Gly+(-0.0135)Arg+(-0.0572)Val+(0.0035)Lys+(
0.1686)Ile;0.785,0.824,0.823,0.813,0.822,0.832,0.848,0.829,(6.4723)+(
-0.0025)Ala+(0.0313)Tyr+(-0.0277)Val+(-0.1579)Met+(0.0627)Leu+(-0.134
0)Trp;0.785,0.822,0.841,0.856,0.828,0.840,0.829,0.838,(5.1348)+(-0.06
88)Asn+(0.0069)Gln+(-0.0037)Ala+(-0.0084)Arg+(0.0124)Leu+(-0.1418)Trp
;0.785,0.821,0.818,0.824,0.823,0.813,0.792,0.813,(4.1739)+(0.0052)Gln
+(0.0146)Tyr+(-0.1840)Met+(0.0141)Orn+(0.0118)Leu+(-0.1456)Trp;0.785,
0.818,0.767,0.735,0.772,0.831,0.795,0.783,(6.5425)+(-0.1092)His+(-0.0
014)Arg+(-0.0273)Val+(-0.1176)Met+(0.0400)Orn+(0.0552)Leu;0.785,0.813
,0.710,0.712,0.643,0.768,0.805,0.732,(2.3136)+(-0.0037)Gln+(-0.0637)T
yr+(-0.0549)Val+(0.0193)Orn+(0.1511)Ile+(0.0578)Phe;0.785,0.825,0.791
,0.792,0.792,0.803,0.775,0.791,(5.8567)+(-0.0165)Arg+(-0.0278)Val+(0.
0298)Orn+(-0.0003)Lys+(0.0497)Leu+(-0.1452)Trp;0.785,0.822,0.752,0.73
0,0.774,0.810,0.721,0.759,(6.7356)+(-0.1332)His+(0.0350)Thr+(-0.0103)
Arg+(-0.2069)Met+(0.0034)Lys+(0.0233)Leu;0.785,0.821,0.815,0.823,0.82
5,0.813,0.779,0.810,(6.5469)+(-0.0388)Asn+(0.0117)Tyr+(-0.1172)Met+(0
.0230)Orn+(0.0065)Lys+(-0.1361)Trp;0.785,0.821,0.800,0.807,0.786,0.80
6,0.808,0.802,(5.8767)+(-0.0003)Gly+(-0.0070)Ala+(0.0100)Pro+(-0.0065
)Tyr+(0.0116)Leu+(-0.1442)Trp;0.785,0.820,0.811,0.829,0.810,0.830,0.7
50,0.805,(5.1543)+(0.0035)Gln+(0.0122)Thr+(-0.0052)Ala+(-0.0234)Arg+(
0.0209)Orn+(-0.1494)Trp;0.785,0.819,0.708,0.676,0.714,0.842,0.684,0.7
29,(0.7151)+(0.0292)Ser+(-0.1149)Cit+(0.0377)Orn+(-0.0250)Lys+(0.1471
)Ile+(-0.0739)Leu;0.785,0.823,0.800,0.819,0.810,0.814,0.718,0.790,(5.

0374)+(0.0031)Gln+(0.0106)Thr+(-0.0251)Arg+(-0.0043)Val+(0.0203)Orn+(-0.1502)Trp;0.785,0.822,0.808,0.811,0.798,0.854,0.790,0.813,(4.2160)+(0.0009)Gly+(0.0121)Gln+(-0.1379)His+(-0.0136)Arg+(0.0126)Tyr+(-0.1008)Met;0.785,0.819,0.797,0.803,0.739,0.847,0.864,0.813,(2.6863)+(-0.0663)Asn+(-0.0102)Ala+(-0.0201)Arg+(0.1713)Ile+(-0.0967)Leu+(0.0701)Phe;0.785,0.818,0.746,0.711,0.743,0.795,0.814,0.766,(4.7518)+(-0.1391)His+(-0.0045)Arg+(-0.0021)Pro+(-0.0057)Lys+(0.0383)Ile+(0.0568)Phe;0.785,0.826,0.781,0.785,0.785,0.800,0.745,0.779,(6.1336)+(0.0191)Thr+(-0.0198)Arg+(-0.0112)Tyr+(-0.0258)Val+(0.0513)Leu+(-0.1546)Trp;0.785,0.826,0.699,0.688,0.695,0.752,0.701,0.709,(-4.9984)+(0.0514)Ser+(0.0057)Pro+(-0.0222)Tyr+(-0.4299)Met+(0.0481)Ile+(0.0955)Phe;0.785,0.822,0.786,0.774,0.788,0.803,0.801,0.791,(5.1271)+(-0.1114)His+(-0.0252)Cit+(-0.0149)Tyr+(-0.0037)Val+(-0.1458)Met+(0.1267)Phe;0.785,0.821,0.797,0.808,0.800,0.790,0.767,0.791,(5.5877)+(-0.0017)Gly+(0.0045)Pro+(-0.0048)Val+(0.0203)Orn+(-0.0013)Lys+(-0.1430)Trp;0.785,0.819,0.782,0.783,0.785,0.872,0.709,0.787,(3.8376)+(0.0351)Ser+(-0.1360)Asn+(-0.0061)Ala+(-0.1082)Cit+(-0.0081)Val+(0.0601)Orn;0.785,0.824,0.834,0.847,0.833,0.828,0.804,0.828,(4.4349)+(0.0057)Gln+(0.0206)Tyr+(-0.0004)Val+(-0.1772)Met+(0.0057)Lys+(-0.1447)Trp;0.785,0.823,0.752,0.731,0.773,0.810,0.723,0.759,(6.8615)+(-0.1318)His+(0.0357)Thr+(-0.0088)Arg+(-0.0046)Tyr+(-0.1944)Met+(0.0249)Leu;0.785,0.820,0.779,0.762,0.780,0.854,0.772,0.792,(4.6260)+(0.0075)Gln+(-0.1334)His+(0.0059)Thr+(-0.0049)Ala+(-0.0722)Cit+(0.0441)Orn;0.785,0.822,0.783,0.801,0.779,0.778,0.747,0.776,(4.5230)+(0.0023)Gln+(0.0067)Thr+(0.0041)Pro+(-0.0232)Tyr+(0.0066)Leu+(-0.1572)Trp;0.785,0.821,0.804,0.811,0.815,0.798,0.766,0.797,(6.8325)+(-0.0820)Asn+(-0.0009)Gly+(0.0180)Thr+(-0.0002)Lys+(0.0078)Leu+(-0.1498)Trp;0.785,0.820,0.818,0.834,0.797,0.822,0.819,0.818,(4.9585)+(-0.0018)Gly+(0.0038)Gln+(-0.0068)Ala+(0.0100)Pro+(-0.0006)Val+(-0.144

0)Trp;0.785,0.821,0.815,0.828,0.818,0.817,0.774,0.809,(6.9926)+(-0.06
26)Asn+(-0.0002)Gly+(-0.0043)Tyr+(-0.0042)Val+(0.0297)Orn+(-0.1250)Tr
p;0.785,0.815,0.754,0.726,0.766,0.828,0.751,0.768,(3.5780)+(0.0020)Gl
y+(0.0080)Gln+(-0.1514)His+(-0.0639)Cit+(0.0349)Orn+(0.0093)Leu;0.785
,0.810,0.748,0.725,0.743,0.821,0.768,0.764,(6.1992)+(0.0020)Gly+(-0.1
390)His+(0.0172)Thr+(-0.0045)Ala+(-0.0042)Lys+(0.0201)Leu;0.785,0.823
,0.765,0.749,0.773,0.860,0.724,0.776,(4.5637)+(0.0417)Ser+(-0.1100)Hi
s+(-0.0008)Ala+(-0.0280)Cit+(0.0222)Tyr+(-0.1267)Met;0.785,0.822,0.79
8,0.811,0.804,0.793,0.757,0.791,(7.0526)+(-0.0782)Asn+(-0.0013)Gly+(0
.0198)Thr+(-0.0142)Tyr+(0.0094)Leu+(-0.1466)Trp;0.785,0.821,0.756,0.7
31,0.750,0.825,0.787,0.773,(4.7990)+(-0.1404)His+(0.0181)Thr+(-0.0061
)Ala+(-0.0438)Cit+(0.0051)Leu+(0.0799)Phe;0.785,0.818,0.763,0.761,0.7
51,0.776,0.787,0.769,(5.3750)+(-0.0245)Asn+(-0.1291)His+(-0.0058)Arg+
(-0.0426)Tyr+(0.0051)Lys+(0.0996)Phe;0.785,0.816,0.740,0.719,0.728,0.
812,0.767,0.757,(5.1730)+(0.0040)Gly+(-0.1110)His+(-0.0166)Arg+(0.004
2)Lys+(0.1159)Ile+(-0.0502)Leu;0.785,0.826,0.731,0.731,0.735,0.758,0.
701,0.731,(-3.5705)+(0.0594)Ser+(-0.0059)Gly+(-0.0187)Arg+(0.0103)Pro
+(-0.3994)Met+(0.1072)Phe;0.785,0.824,0.741,0.748,0.742,0.760,0.708,0
.740,(-3.5213)+(0.0511)Ser+(-0.0067)Gly+(0.0137)Thr+(-0.4181)Met+(-0.
0045)Leu+(0.1099)Phe;0.785,0.822,0.806,0.797,0.803,0.852,0.799,0.813,
(3.9654)+(0.0120)Gln+(-0.1385)His+(-0.0370)Cit+(0.0064)Tyr+(0.0062)Va
l+(-0.1182)Met;0.785,0.811,0.770,0.757,0.766,0.822,0.778,0.781,(3.830
7)+(0.0012)Gly+(0.0098)Gln+(-0.1494)His+(-0.0386)Cit+(-0.0162)Tyr+(0.
0168)Leu;0.785,0.819,0.774,0.761,0.734,0.854,0.833,0.796,(1.5587)+(-0
.0141)Ala+(-0.1225)Cit+(0.0333)Orn+(0.1749)Ile+(-0.0944)Leu+(0.0586)P
he;0.785,0.817,0.749,0.739,0.742,0.774,0.772,0.757,(5.0825)+(-0.1264)
His+(-0.0321)Cit+(0.0053)Pro+(-0.0464)Tyr+(-0.0009)Leu+(0.1017)Phe;0.
785,0.812,0.759,0.755,0.699,0.837,0.838,0.782,(4.8767)+(-0.1262)Asn+(

0.0029)Gly+(-0.0015)Pro+(-0.0508)Val+(0.1785)Ile+(-0.0157)Leu;0.785,0.823,0.826,0.841,0.830,0.830,0.777,0.819,(4.6648)+(0.0058)Gln+(-0.0130)Arg+(0.0161)Tyr+(-0.1561)Met+(0.0219)Orn+(-0.1376)Trp;0.785,0.822,0.747,0.753,0.769,0.778,0.661,0.740,(-3.4127)+(0.0475)Ser+(0.0022)Gln+(-0.0810)Cit+(-0.0071)Arg+(-0.3683)Met+(0.1203)Phe;0.785,0.818,0.767,0.749,0.753,0.808,0.815,0.781,(5.1014)+(-0.1299)His+(-0.0063)Ala+(-0.0085)Arg+(0.0073)Pro+(0.0003)Leu+(0.0798)Phe;0.785,0.813,0.754,0.746,0.673,0.840,0.883,0.785,(2.5329)+(-0.0019)Gly+(-0.0027)Thr+(-0.0107)Ala+(-0.0539)Val+(0.0176)Orn+(0.1688)Ile;0.785,0.820,0.804,0.818,0.803,0.789,0.780,0.797,(4.8862)+(-0.0030)Gly+(0.0026)Gln+(0.0067)Thr+(0.0040)Pro+(-0.0037)Val+(-0.1546)Trp;0.785,0.817,0.727,0.701,0.736,0.793,0.731,0.740,(3.8577)+(0.0051)Gly+(-0.1478)His+(-0.0141)Arg+(0.0008)Pro+(0.0221)Orn+(0.0737)Phe;0.785,0.810,0.761,0.759,0.681,0.840,0.879,0.790,(2.8358)+(-0.0013)Gly+(-0.0013)Thr+(-0.0102)Ala+(-0.0418)Val+(0.1942)Ile+(-0.0336)Leu;0.785,0.810,0.726,0.705,0.719,0.792,0.747,0.741,(6.2590)+(-0.1332)His+(0.0190)Thr+(0.0042)Pro+(-0.0255)Tyr+(-0.0207)Val+(0.0452)Leu;0.785,0.822,0.819,0.819,0.810,0.824,0.833,0.821,(7.2530)+(-0.0290)Asn+(-0.0016)Ala+(-0.0255)Val+(-0.0874)Met+(0.0591)Leu+(-0.1257)Trp;0.785,0.815,0.791,0.779,0.774,0.844,0.817,0.804,(4.0581)+(0.0103)Gln+(-0.1444)His+(-0.0042)Ala+(-0.0408)Cit+(-0.0090)Tyr+(0.0199)Leu;0.785,0.823,0.761,0.723,0.766,0.819,0.805,0.779,(5.9034)+(-0.1187)His+(-0.0009)Arg+(-0.1521)Met+(0.0235)Orn+(0.0016)Lys+(0.0548)Ile;0.785,0.822,0.729,0.696,0.745,0.787,0.740,0.742,(4.5310)+(-0.1547)His+(0.0175)Thr+(-0.0191)Arg+(-0.0010)Pro+(0.0185)Orn+(0.0697)Phe;0.785,0.819,0.826,0.829,0.837,0.833,0.792,0.823,(7.2901)+(-0.0031)Ala+(-0.0651)Cit+(0.0014)Arg+(0.0124)Tyr+(0.0031)Lys+(-0.1441)Trp;0.785,0.812,0.750,0.728,0.742,0.824,0.774,0.767,(6.7362)+(-0.1314)His+(0.0225)Thr+(-0.0035)Ala+(-0.0128)Arg+(-0.0217)Val+(0.0489)Leu;0.785,0.821,0.7

49,0.726,0.754,0.798,0.766,0.761,(4.7009)+(-0.1327)His+(-0.0138)Arg+(0.0026)Pro+(-0.0101)Val+(0.0307)Orn+(0.0815)Phe;0.785,0.821,0.818,0.836,0.821,0.821,0.764,0.810,(4.6713)+(0.0056)Gln+(-0.0152)Arg+(-0.1423)Met+(0.0215)Orn+(0.0059)Lys+(-0.1385)Trp;0.785,0.819,0.790,0.789,0.748,0.853,0.838,0.807,(4.2574)+(-0.0091)Ala+(-0.0119)Arg+(0.0071)Pro+(-0.1816)Met+(0.1724)Ile+(-0.0795)Leu;0.785,0.819,0.788,0.772,0.789,0.854,0.777,0.798,(4.6025)+(0.0092)Gln+(-0.1318)His+(-0.0043)Ala+(-0.0633)Cit+(-0.0107)Arg+(0.0449)Orn;0.785,0.824,0.756,0.746,0.766,0.815,0.718,0.761,(6.5401)+(-0.1178)His+(0.0260)Thr+(0.0084)Pro+(-0.0069)Tyr+(-0.1853)Met+(0.0067)Lys;0.785,0.823,0.793,0.791,0.767,0.862,0.804,0.806,(1.7797)+(0.0065)Gln+(-0.0791)Cit+(-0.0008)Pro+(-0.2502)Met+(0.1760)Ile+(-0.0820)Leu;0.785,0.814,0.773,0.748,0.754,0.838,0.835,0.794,(6.6558)+(-0.1050)His+(-0.0068)Ala+(-0.0430)Cit+(-0.0130)Tyr+(-0.0009)Lys+(0.0658)Ile;0.785,0.814,0.752,0.730,0.748,0.824,0.770,0.768,(6.1701)+(-0.1269)His+(0.0107)Thr+(-0.0056)Ala+(0.0069)Pro+(0.0281)Orn+(-0.0019)Lys;0.785,0.828,0.770,0.759,0.779,0.787,0.765,0.773,(5.0882)+(0.0130)Thr+(-0.0205)Arg+(0.0072)Orn+(-0.0075)Lys+(0.0528)Ile+(-0.1660)Trp;0.785,0.825,0.829,0.843,0.826,0.817,0.807,0.823,(5.1115)+(-0.0784)Asn+(0.0067)Gln+(-0.0114)Arg+(0.0047)Pro+(0.0054)Leu+(-0.1449)Trp;0.785,0.824,0.837,0.857,0.829,0.826,0.812,0.831,(5.3821)+(-0.0925)Asn+(0.0065)Gln+(-0.0028)Tyr+(-0.0028)Val+(0.0054)Lys+(-0.1372)Trp;0.785,0.820,0.807,0.819,0.794,0.812,0.800,0.807,(6.0344)+(-0.0006)Gly+(-0.0065)Ala+(0.0108)Pro+(-0.0009)Val+(0.0024)Lys+(-0.1391)Trp;0.785,0.817,0.792,0.812,0.792,0.796,0.737,0.784,(4.7957)+(0.0021)Gln+(0.0059)Thr+(-0.0182)Tyr+(-0.0030)Val+(0.0172)Orn+(-0.1463)Trp;0.785,0.817,0.802,0.798,0.790,0.853,0.801,0.810,(4.2279)+(0.0115)Gln+(-0.1439)His+(-0.0034)Ala+(-0.0322)Cit+(-0.0116)Arg+(0.0061)Val;0.785,0.822,0.807,0.815,0.810,0.824,0.770,0.805,(7.1274)+(-0.0663)Asn+(0.0224)Thr+(-0.0044)

Ala+(-0.0117)Arg+(0.0134)Leu+(-0.1471)Trp;0.785,0.820,0.784,0.769,0.783,0.854,0.774,0.795,(4.7408)+(0.0081)Gln+(-0.1268)His+(-0.0040)Ala+(-0.0727)Cit+(-0.0135)Tyr+(0.0487)Orn;0.785,0.820,0.750,0.739,0.671,0.855,0.867,0.783,(-0.2002)+(0.0340)Ser+(-0.0085)Gly+(-0.0140)Ala+(0.0047)Pro+(0.1681)Ile+(-0.0858)Leu;0.785,0.817,0.758,0.737,0.742,0.816,0.803,0.774,(5.7894)+(-0.1066)His+(-0.0138)Arg+(-0.0028)Pro+(0.0042)Lys+(0.1210)Ile+(-0.0532)Leu;0.785,0.828,0.735,0.730,0.768,0.785,0.641,0.731,(-3.1723)+(0.0466)Ser+(0.0006)Gln+(-0.1014)Cit+(-0.3759)Met+(0.0266)Orn+(0.1120)Phe;0.785,0.822,0.822,0.836,0.820,0.820,0.789,0.817,(4.7068)+(-0.0016)Gly+(0.0052)Gln+(-0.1491)Met+(0.0194)Orn+(0.0030)Lys+(-0.1386)Trp;0.785,0.820,0.
833,0.854,0.827,0.828,0.790,0.825,(4.7687)+(0.0063)Gln+(-0.0013)Ala+(-0.0123)Arg+(-0.1275)Met+(0.0083)Lys+(-0.1383)Trp;0.785,0.819,0.802,0.802,0.794,0.843,0.788,0.807,(3.8980)+(0.0124)Gln+(-0.1450)His+(-0.0174)Arg+(0.0037)Val+(-0.1103)Met+(0.0078)Lys;0.785,0.818,0.759,0.758,0.744,0.777,0.777,0.764,(5.1243)+(-0.1295)His+(-0.0104)Arg+(-0.0406)Tyr+(-0.0057)Val+(0.0063)Lys+(0.1077)Phe;0.785,0.824,0.818,0.839,0.801,0.828,0.795,0.815,(5.0794)+(0.0047)Gln+(-0.0062)Ala+(-0.0150)Arg+(0.0107)Pro+(-0.0048)Tyr+(-0.1403)Trp;0.785,0.822,0.812,0.822,0.816,0.807,0.780,0.806,(7.2693)+(-0.0266)Asn+(-0.0010)Arg+(0.0097)Pro+(-0.0013)Val+(-0.0988)Met+(-0.1246)Trp;0.785,0.814,0.748,0.782,0.696,0.778,0.749,0.751,(0.4097)+(0.0034)Gln+(-0.0355)Arg+(-0.0752)Tyr+(0.1769)Ile+(-0.1082)Leu+(0.0917)Phe;0.785,0.819,0.815,0.812,0.805,0.864,0.807,0.822,(4.4017)+(0.0115)Gln+(-0.1293)His+(-0.0012)Ala+(-0.0339)Cit+(0.0132)Tyr+(-0.1046)Met;0.785,0.817,0.750,0.744,0.740,0.776,0.772,0.758,(5.0907)+(-0.1226)His+(-0.0309)Cit+(0.0062)Pro+(-0.0444)Tyr+(-0.0048)Val+(0.1074)Phe;0.785,0.815,0.721,0.696,0.731,0.789,0.715,0.733,(3.8244)+(0.0048)Gly+(-0.1486)His+(0.0142)Thr+(-0.0431)Cit+(-0.0053)Val+(0.0

921)Phe;0.785,0.826,0.754,0.747,0.726,0.840,0.768,0.770,(1.4821)+(0.0484)Ser+(-0.1112)Asn+(-0.0049)Gly+(-0.0300)Arg+(0.1605)Ile+(-0.0864)Leu;0.785,0.815,0.753,0.737,0.757,0.832,0.734,0.765,(4.8781)+(0.0439)Ser+(-0.0043)Gly+(-0.1199)His+(-0.0150)Cit+(-0.0104)Arg+(-0.0048)Tyr;0.785,0.825,0.773,0.759,0.777,0.789,0.791,0.779,(4.7125)+(0.0089)Thr+(-0.0032)Pro+(0.0040)Orn+(-0.0112)Lys+(0.0577)Ile+(-0.1653)Trp;0.785,0.821,0.802,0.806,0.789,0.807,0.811,0.803,(5.7764)+(-0.0002)Gly+(-0.0073)Ala+(0.0096)Pro+(-0.0006)Lys+(0.0117)Leu+(-0.1462)Trp;0.785,0.825,0.756,0.724,0.759,0.836,0.774,0.773,(4.6000)+(-0.1326)His+(0.0129)Thr+(-0.0070)Ala+(-0.0738)Cit+(0.0408)Orn+(0.0757)Phe;0.785,0.824,0.756,0.743,0.769,0.821,0.718,0.763,(6.5177)+(-0.1238)His+(0.0231)Thr+(-0.0058)Tyr+(-0.1507)Met+(0.0291)Orn+(0.0035)Lys;0.785,0.825,0.771,0.763,0.783,0.773,0.767,0.771,(4.9563)+(-0.0009)Gly+(0.0118)Thr+(-0.0235)Arg+(0.0052)Orn+(0.0485)Ile+(-0.1718)Trp;0.785,0.819,0.728,0.700,0.730,0.798,0.748,0.744,(5.6200)+(0.0033)Gly+(-0.1311)His+(-0.0097)Arg+(-0.0291)Tyr+(0.0277)Orn+(0.0483)Ile;0.785,0.819,0.818,0.830,0.816,0.824,0.789,0.815,(6.8519)+(-0.0549)Asn+(0.0001)Gly+(-0.0034)Ala+(-0.0002)Tyr+(0.0277)Orn+(-0.1287)Trp;0.785,0.827,0.762,0.754,0.756,0.849,0.733,0.773,(3.2303)+(0.0035)Gly+(0.0162)Thr+(-0.0808)Cit+(-0.2744)Met+(0.1683)Ile+(-0.0761)Leu;0.785,0.825,0.791,0.795,0.787,0.790,0.793,0.791,(6.1439)+(-0.0112)Arg+(0.0070)Pro+(-0.0076)Tyr+(-0.0239)Val+(0.0459)Leu+(-0.1448)Trp;0.785,0.825,0.842,0.859,0.835,0.832,0.819,0.836,(5.4825)+(-0.0822)Asn+(-0.0009)Gly+(0.0068)Gln+(-0.0022)Tyr+(-0.0014)Val+(-0.1351)Trp;0.785,0.823,0.843,0.863,0.833,0.837,0.813,0.837,(5.3444)+(-0.0779)Asn+(0.0070)Gln+(-0.0027)Ala+(-0.0120)Arg+(0.0071)Lys+(-0.1384)Trp;0.785,0.820,0.782,0.801,0.782,0.789,0.729,0.775,(5.7633)+(0.0100)Thr+(0.0059)Pro+(-0.0184)Tyr+(-0.0023)Val+(-0.0015)Lys+(-0.1446)Trp;0.785,0.813,0.792,0.784,0.779,0.849,0.796,0.802,(4.0596)+(0.0016)G

ly+(0.0100)Gln+(-0.1434)His+(-0.0041)Ala+(-0.0436)Cit+(0.0071)Val;0.785,0.812,0.781,0.775,0.775,0.829,0.775,0.789,(3.9161)+(0.0111)Gln+(-0.1529)His+(-0.0207)Arg+(0.0041)Pro+(0.0006)Val+(0.0028)Lys;0.784,0.823,0.725,0.718,0.736,0.809,0.662,0.731,(1.7488)+(0.0403)Ser+(-0.1413)Asn+(-0.1013)Cit+(-0.0505)Tyr+(0.0392)Orn+(0.0372)Ile;0.784,0.821,0.759,0.760,0.710,0.832,0.803,0.776,(0.5120)+(0.0497)Ser+(-0.2136)Asn+(-0.0045)Ala+(-0.0462)Val+(0.0607)Leu+(0.0948)Phe;0.784,0.819,0.766,0.755,0.730,0.867,0.800,0.788,(2.7122)+(0.0034)Gly+(-0.0134)Ala+(-0.1240)Cit+(0.0387)Orn+(0.1728)Ile+(-0.0837)Leu;0.784,0.816,0.770,0.755,0.777,0.834,0.750,0.779,(4.3738)+(0.0084)Gln+(-0.1365)His+(-0.0664)Cit+(-0.0229)Tyr+(0.0016)Val+(0.0436)Orn;0.784,0.814,0.746,0.718,0.740,0.825,0.773,0.764,(5.6533)+(0.0030)Gly+(-0.1302)His+(-0.0062)Ala+(0.0068)Pro+(0.0274)Orn+(0.0114)Leu;0.784,0.829,0.766,0.761,0.747,0.866,0.751,0.781,(2.4563)+(0.0443)Ser+(-0.1270)Asn+(-0.0506)Val+(-0.1906)Met+(0.0353)Orn+(0.0830)Leu;0.784,0.824,0.825,0.838,0.823,0.830,0.789,0.820,(4.5782)+(0.0051)Gln+(0.0154)Tyr+(-0.0014)Val+(-0.1647)Met+(0.0197)Orn+(-0.1377)Trp;0.784,0.824,0.724,0.700,0.721,0.804,0.739,0.741,(-1.1768)+(0.0533)Ser+(-0.0068)Gly+(0.0114)Thr+(-0.3423)Met+(-0.0135)Lys+(0.0717)Ile;0.784,0.819,0.812,0.817,0.799,0.857,0.793,0.816,(4.5607)+(0.0121)Gln+(-0.1284)His+(-0.0006)Ala+(-0.0267)Cit+(-0.0093)Arg+(-0.0770)Met;0.784,0.818,0.801,0.814,0.807,0.824,0.734,0.795,(6.2257)+(0.0143)Thr+(-0.0049)Ala+(-0.0207)Arg+(0.0235)Orn+(0.0003)Lys+(-0.1456)Trp;0.784,0.818,0.794,0.800,0.805,0.796,0.756,0.789,(6.2037)+(-0.0074)Arg+(0.0071)Pro+(-0.1407)Met+(0.0216)Orn+(0.0081)Leu+(-0.1348)Trp;0.784,0.822,0.764,0.769,0.748,0.796,0.759,0.768,(-2.6721)+(0.0541)Ser+(-0.0059)Gly+(-0.0029)Ala+(-0.3213)Met+(-0.0091)Lys+(0.1106)Phe;0.784,0.823,0.768,0.737,0.772,0.838,0.793,0.785,(4.9295)+(-0.1230)His+(-0.0067)Ala+(-0.0742)Cit+(0.0470)Orn+(0.0004)Leu+(0.0749)Phe;0.784,0.816,0.7

63,0.740,0.767,0.835,0.762,0.776,(7.0066)+(-0.0997)His+(-0.0070)Ala+(-0.0772)Cit+(0.0105)Pro+(-0.0196)Tyr+(0.0572)Orn;0.784,0.820,0.820,0.832,0.814,0.823,0.799,0.817,(4.4315)+(0.0051)Gln+(-0.0032)Ala+(-0.1406)Met+(0.0179)Orn+(0.0140)Leu+(-0.1406)Trp;0.784,0.818,0.749,0.713,0.747,0.791,0.815,0.767,(4.8580)+(-0.0159)Asn+(-0.1356)His+(-0.0039)Arg+(-0.0047)Lys+(0.0347)Ile+(0.0571)Phe;0.784,0.821,0.726,0.743,0.751,0.769,0.600,0.716,(-3.6167)+(0.0440)Ser+(0.0005)Gln+(0.0191)Thr+(-0.0246)Arg+(-0.4248)Met+(0.1168)Phe;0.784,0.816,0.772,0.769,0.752,0.800,0.798,0.780,(5.3518)+(-0.1244)His+(-0.0024)Ala+(-0.0062)Arg+(-0.0329)Tyr+(-0.0033)Val+(0.1071)Phe;0.784,0.810,0.752,0.723,0.744,0.821,0.791,0.770,(6.3322)+(-0.1339)His+(0.0166)Thr+(-0.0060)Ala+(0.0058)Pro+(-0.0040)Lys+(0.0167)Leu;0.784,0.823,0.794,0.810,0.806,0.798,0.721,0.784,(4.7210)+(0.0031)Gln+(0.0092)Thr+(-0.0253)Arg+(0.0031)Pro+(0.0147)Orn+(-0.1584)Trp;0.784,0.822,0.805,0.824,0.817,0.815,0.725,0.795,(7.6551)+(-0.0721)Asn+(0.0224)Thr+(-0.0120)Arg+(-0.0048)Tyr+(-0.0021)Val+(-0.1365)Trp;0.784,0.822,0.807,0.804,0.802,0.850,0.793,0.812,(4.0773)+(0.0126)Gln+(-0.1383)His+(-0.0310)Cit+(-0.0085)Arg+(0.0062)Val+(-0.0988)Met;0.784,0.819,0.805,0.817,0.807,0.791,0.776,0.798,(4.8923)+(-0.0032)Gly+(0.0023)Gln+(0.0059)Thr+(-0.0042)Val+(0.0154)Orn+(-0.1525)Trp;0.784,0.818,0.788,0.781,0.738,0.874,0.848,0.810,(4.0594)+(0.0044)Thr+(-0.0120)Ala+(-0.0893)Cit+(-0.0078)Lys+(0.1762)Ile+(-0.0777)Leu;0.784,0.826,0.771,0.761,0.762,0.848,0.759,0.783,(3.6527)+(0.0180)Thr+(-0.0752)Cit+(0.0002)Pro+(-0.2720)Met+(0.1665)Ile+(-0.0767)Leu;0.784,0.820,0.693,0.695,0.705,0.740,0.628,0.692,(-4.1423)+(0.0476)Ser+(-0.0013)Gln+(0.0102)Thr+(0.0092)Pro+(-0.4579)Met+(0.1100)Phe;0.784,0.813,0.755,0.726,0.767,0.825,0.761,0.770,(3.7321)+(0.0079)Gln+(-0.1541)His+(0.0048)Thr+(-0.0607)Cit+(0.0325)Orn+(0.0089)Leu;0.784,0.824,0.738,0.686,0.756,0.816,0.785,0.761,(4.7630)+(-0.1274)His+(-0.0673)Cit+(0.0407)Or

n+(-0.0130)Lys+(0.0342)Ile+(0.0553)Phe;0.784,0.817,0.743,0.721,0.739,0.816,0.756,0.758,(6.2266)+(-0.1382)His+(0.0158)Thr+(-0.0038)Ala+(-0.0261)Tyr+(0.0286)Orn+(0.0159)Leu;0.784,0.816,0.754,0.748,0.742,0.769,0.780,0.760,(5.3244)+(-0.0201)Asn+(-0.1258)His+(-0.0051)Arg+(0.0051)Pro+(-0.0446)Tyr+(0.0987)Phe;0.784,0.812,0.754,0.734,0.751,0.823,0.764,0.768,(6.5568)+(-0.0422)Asn+(0.0028)Gly+(-0.1332)His+(0.0190)Thr+(-0.0042)Ala+(0.0182)Leu;0.784,0.811,0.769,0.764,0.764,0.824,0.754,0.777,(4.3008)+(0.0089)Gln+(-0.1471)His+(0.0109)Thr+(-0.0394)Cit+(-0.0204)Tyr+(0.0051)Val;0.784,0.819,0.711,0.706,0.688,0.805,0.703,0.726,(-2.0745)+(0.0382)Ser+(-0.0427)Arg+(-0.0139)Lys+(0.1702)Ile+(-0.1014)Leu+(0.0629)Phe;0.784,0.817,0.760,0.760,0.794,0.837,0.632,0.756,(2.4534)+(0.0396)Ser+(-0.0959)Asn+(0.0072)Thr+(-0.0980)Cit+(-0.1960)Met+(0.0425)Orn;0.784,0.820,0.739,0.747,0.699,0.819,0.746,0.753,(1.4737)+(0.0414)Ser+(-0.0084)Gly+(-0.0348)Arg+(-0.0492)Tyr+(0.1717)Ile+(-0.0901)Leu;0.784,0.820,0.738,0.707,0.734,0.799,0.784,0.756,(5.9096)+(-0.1286)His+(-0.0005)Pro+(-0.0313)Tyr+(0.0286)Orn+(-0.0028)Lys+(0.0484)Ile;0.784,0.817,0.744,0.738,0.729,0.765,0.778,0.753,(4.7563)+(-0.1337)His+(0.0048)Pro+(-0.0469)Tyr+(0.0018)Lys+(-0.0019)Leu+(0.0974)Phe;0.784,0.816,0.784,0.770,0.774,0.821,0.816,0.795,(5.7348)+(-0.0314)Asn+(-0.1151)His+(-0.0040)Ala+(-0.0334)Cit+(-0.0041)Val+(0.0969)Phe;0.784,0.814,0.740,0.715,0.736,0.810,0.765,0.756,(6.0020)+(0.0015)Gly+(-0.1266)His+(-0.0166)Tyr+(-0.0217)Val+(0.0370)Orn+(0.0435)Leu;0.784,0.812,0.760,0.757,0.703,0.834,0.831,0.781,(5.1830)+(-0.1158)Asn+(0.0032)Gly+(-0.0119)Arg+(-0.0001)Pro+(-0.0562)Val+(0.1690)Ile;0.784,0.821,0.789,0.787,0.784,0.789,0.807,0.792,(6.0499)+(-0.0416)Asn+(-0.0074)Arg+(0.0010)Pro+(-0.0130)Tyr+(0.0526)Ile+(-0.1500)Trp;0.784,0.821,0.815,0.821,0.825,0.819,0.774,0.810,(6.6778)+(-0.0346)Asn+(0.0004)Gly+(0.0121)Tyr+(-0.1044)Met+(0.0262)Orn+(-0.1301)Trp;0.784,0.819,0.784,0.762,0.786,0.852,0

.789,0.797,(4.4140)+(0.0084)Gln+(-0.1350)His+(-0.0053)Ala+(-0.0729)Cit+(0.0031)Val+(0.0440)Orn;0.784,0.818,0.769,0.766,0.750,0.797,0.795,0.777,(5.2225)+(-0.1304)His+(-0.0030)Ala+(-0.0079)Arg+(-0.0370)Tyr+(0.0046)Lys+(0.1008)Phe;0.784,0.816,0.721,0.726,0.686,0.818,0.711,0.735,(1.0935)+(0.0231)Ser+(-0.0843)Cit+(-0.0016)Pro+(-0.0497)Tyr+(0.1658)Ile+(-0.0827)Leu;0.784,0.811,0.783,0.785,0.771,0.829,0.770,0.789,(4.2793)+(0.0000)Gly+(0.0111)Gln+(-0.1430)His+(-0.0184)Arg+(0.0061)Pro+(-0.0145)Tyr;0.784,0.819,0.727,0.713,0.731,0.795,0.706,0.736,(-1.0184)+(0.0475)Ser+(-0.0690)Asn+(0.0091)Thr+(-0.0086)Tyr+(-0.3051)Met+(0.0625)Ile;0.784,0.818,0.805,0.823,0.794,0.818,0.768,0.801,(4.8372)+(0.0026)Gln+(0.0072)Thr+(-0.0050)Ala+(-0.0101)Tyr+(0.0175)Orn+(-0.1463)Trp;0.784,0.826,0.721,0.694,0.750,0.806,0.672,0.731,(-0.9491)+(0.0458)Ser+(-0.0909)Cit+(0.0037)Pro+(-0.3451)Met+(0.0197)Orn+(0.0597)Ile;0.784,0.816,0.759,0.754,0.747,0.781,0.782,0.766,(5.1304)+(-0.1257)His+(-0.0288)Cit+(-0.0403)Tyr+(-0.0038)Val+(0.0025)Lys+(0.1075)Phe;0.784,0.818,0.779,0.760,0.765,0.818,0.827,0.793,(5.3127)+(-0.0276)Asn+(-0.1288)His+(-0.0044)Ala+(0.0012)Lys+(0.0018)Leu+(0.0815)Phe;0.784,0.817,0.805,0.811,0.793,0.844,0.788,0.809,(4.1378)+(0.0121)Gln+(-0.1395)His+(-0.0005)Ala+(-0.0183)Arg+(-0.1013)Met+(0.0095)Lys;0.784,0.818,0.815,0.827,0.807,0.819,0.799,0.813,(4.9
969)+(-0.0029)Gly+(0.0028)Gln+(0.0081)Thr+(-0.0055)Ala+(0.0161)Orn+(-0.1507)Trp;0.784,0.817,0.731,0.708,0.740,0.792,0.730,0.743,(3.9212)+(0.0050)Gly+(-0.1458)His+(-0.0144)Arg+(0.0239)Orn+(-0.0043)Leu+(0.0791)Phe;0.784,0.829,0.769,0.763,0.755,0.847,0.755,0.780,(3.8804)+(0.0187)Thr+(-0.0748)Cit+(-0.0157)Tyr+(-0.2475)Met+(0.1666)Ile+(-0.0757)Leu;0.784,0.820,0.742,0.713,0.739,0.801,0.787,0.760,(6.0824)+(-0.0131)Asn+(-0.1256)His+(-0.0315)Tyr+(0.0288)Orn+(-0.0018)Lys+(0.0469)Ile;0.784,0.820,0.758,0.737,0.752,0.824,0.780,0.773,(4.8032)+(-0.1372)His+(0.0

183)Thr+(-0.0052)Ala+(-0.0415)Cit+(-0.0033)Val+(0.0906)Phe;0.784,0.817,0.718,0.672,0.738,0.816,0.727,0.738,(4.7005)+(0.0054)Gly+(-0.1329)His+(-0.0678)Cit+(-0.0029)Pro+(0.0380)Orn+(0.0459)Ile;0.784,0.815,0.750,0.727,0.777,0.824,0.703,0.758,(6.8033)+(-0.0327)Asn+(0.0042)Gly+(-0.1060)His+(-0.0730)Cit+(-0.0160)Tyr+(0.0569)Orn;0.784,0.822,0.762,0.754,0.767,0.850,0.708,0.770,(4.9756)+(0.0404)Ser+(-0.1076)His+(-0.0001)Ala+(-0.0233)Cit+(-0.0048)Arg+(-0.0845)Met;0.784,0.821,0.788,0.778,0.738,0.870,0.857,0.811,(4.1006)+(-0.0131)Ala+(-0.0883)Cit+(0.0056)Pro+(-0.0060)Lys+(0.1719)Ile+(-0.0777)Leu;0.784,0.821,0.809,0.822,0.808,0.806,0.779,0.804,(7.0891)+(-0.0569)Asn+(0.0007)Gly+(0.0077)Pro+(-0.0041)Tyr+(-0.0029)Val+(-0.1283)Trp;0.784,0.823,0.838,0.850,0.837,0.832,0.810,0.832,(4.6151)+(-0.0007)Gly+(0.0062)Gln+(0.0194)Tyr+(0.0010)Val+(-0.1627)Met+(-0.1411)Trp;0.784,0.812,0.770,0.764,0.758,0.817,0.777,0.779,(4.0516)+(0.0092)Gln+(-0.1479)His+(0.0049)Pro+(-0.0188)Tyr+(0.0027)Val+(-0.0006)Lys;0.784,0.810,0.769,0.756,0.762,0.816,0.783,0.779,(3.9002)+(0.0099)Gln+(-0.1474)His+(-0.0376)Cit+(0.0038)Pro+(-0.0214)Tyr+(0.0146)Leu;0.784,0.817,0.798,0.814,0.805,0.822,0.726,0.792,(6.3113)+(0.0149)Thr+(-0.0045)Ala+(-0.0203)Arg+(-0.0066)Tyr+(0.0244)Orn+(-0.1432)Trp;0.784,0.816,0.760,0.745,0.760,0.826,0.751,0.770,(6.6869)+(-0.0448)Asn+(0.0018)Gly+(-0.1229)His+(0.0147)Thr+(-0.0034)Ala+(0.0308)Orn;0.784,0.817,0.777,0.768,0.782,0.839,0.747,0.784,(4.4978)+(0.0095)Gln+(-0.1348)His+(-0.0569)Cit+(-0.0120)Arg+(-0.0192)Tyr+(0.0434)Orn;0.784,0.821,0.825,0.832,0.829,0.810,0.809,0.820,(4.1195)+(0.0057)Gln+(0.0185)Tyr+(-0.1899)Met+(0.0025)Lys+(0.0132)Leu+(-0.1489)Trp;0.784,0.819,0.745,0.751,0.765,0.778,0.664,0.739,(-3.3646)+(0.0467)Ser+(0.0019)Gln+(-0.0851)Cit+(-0.3726)Met+(-0.0016)Leu+(0.1208)Phe;0.784,0.817,0.798,0.805,0.778,0.807,0.812,0.801,(-0.1302)+(0.0038)Gln+(-0.0446)Val+(-0.3586)Met+(0.0237)Orn+(0.0590)Leu+(0.1032)Phe;0.784,0.824,0.832,

0.845,0.828,0.815,0.819,0.827,(5.0295)+(-0.0884)Asn+(-0.0005)Gly+(0.0063)Gln+(0.0020)Lys+(0.0066)Leu+(-0.1465)Trp;0.784,0.823,0.821,0.841,0.822,0.828,0.762,0.813,(4.8749)+(0.0057)Gln+(-0.0128)Arg+(-0.0014)Val+(-0.1286)Met+(0.0251)Orn+(-0.1320)Trp;0.784,0.812,0.737,0.713,0.737,0.804,0.752,0.752,(5.8507)+(-0.0231)Asn+(0.0059)Gly+(-0.1158)His+(-0.0432)Cit+(-0.0199)Tyr+(0.0569)Ile;0.784,0.821,0.755,0.744,0.776,0.813,0.701,0.758,(6.8945)+(-0.1184)His+(0.0297)Thr+(-0.0161)Arg+(0.0082)Pro+(-0.1948)Met+(0.0094)Lys;0.784,0.819,0.796,0.804,0.803,0.782,0.771,0.790,(5.9351)+(0.0007)Gly+(0.0083)Pro+(-0.1611)Met+(0.0063)Lys+(0.0093)Leu+(-0.1409)Trp;0.784,0.819,0.725,0.702,0.724,0.793,0.741,0.740,(-2.0026)+(0.0531)Ser+(-0.0066)Gly+(-0.0000)Gln+(0.0083)Thr+(-0.3811)Met+(0.0646)Ile;0.784,0.814,0.749,0.735,0.748,0.844,0.722,0.762,(4.6280)+(0.0367)Ser+(-0.1195)His+(-0.0023)Ala+(-0.0310)Cit+(0.0019)Tyr+(0.0002)Lys;0.784,0.814,0.768,0.745,0.778,0.833,0.761,0.779,(3.7920)+(0.0099)Gln+(-0.1507)His+(-0.0513)Cit+(-0.0134)Arg+(0.0336)Orn+(0.0083)Leu;0.784,0.810,0.767,0.754,0.766,0.824,0.763,0.777,(3.9874)+(0.0008)Gly+(0.0089)Gln+(-0.1526)His+(0.0077)Thr+(-0.0397)Cit+(0.0035)Val;0.784,0.827,0.763,0.762,0.765,0.784,0.749,0.765,(5.4416)+(0.0164)Thr+(-0.0185)Arg+(-0.0223)Tyr+(-0.0062)Lys+(0.0575)Ile+(-0.1595)Trp;0.784,0.824,0.744,0.759,0.738,0.787,0.686,0.742,(-3.4923)+(0.0409)Ser+(0.0133)Thr+(-0.0040)Ala+(-0.3955)Met+(-0.0016)Leu+(0.1132)Phe;0.784,0.821,0.808,0.822,0.798,0.815,0.787,0.806,(6.3220)+(-0.0062)Ala+(-0.0138)Arg+(0.0115)Pro+(-0.0015)Val+(0.0063)Lys+(-0.1387)Trp;0.784,0.814,0.761,0.732,0.772,0.829,0.768,0.775,(3.6955)+(0.0085)Gln+(-0.1515)His+(-0.0612)Cit+(0.0006)Pro+(0.0342)Orn+(0.0083)Leu;0.784,0.817,0.772,0.766,0.756,0.803,0.800,0.781,(5.3353)+(-0.1233)His+(-0.0035)Ala+(-0.0336)Cit+(-0.0349)Tyr+(0.0021)Lys+(0.1044)Phe;0.784,0.822,0.742,0.747,0.766,0.777,0.653,0.736,(-2.8012)+(0.0496)Ser+(-0.0775)Cit+(-0.0056)Arg+(-

0.3573)Met+(-0.0016)Leu+(0.1222)Phe;0.784,0.821,0.790,0.815,0.796,0.794,0.711,0.779,(5.0610)+(0.0036)Gln+(0.0127)Thr+(-0.0229)Arg+(0.0056)Pro+(-0.0186)Tyr+(-0.1517)Trp;0.784,0.820,0.745,0.734,0.751,0.806,0.720,0.753,(6.8700)+(-0.0448)Asn+(0.0008)Gly+(-0.1226)His+(0.0172)Thr+(-0.0246)Tyr+(0.0334)Orn;0.784,0.820,0.814,0.815,0.805,0.855,0.804,0.820,(4.4677)+(-0.0429)Asn+(0.0122)Gln+(-0.1265)His+(-0.0339)Cit+(-0.0826)Met+(0.0058)Lys;0.784,0.821,0.819,0.834,0.798,0.823,0.819,0.819,(4.9472)+(-0.0018)Gly+(0.0039)Gln+(-0.0069)Ala+(0.0099)Pro+(-0.0006)Lys+(-0.1444)Trp;0.784,0.821,0.787,0.804,0.786,0.792,0.739,0.780,(5.5611)+(0.0058)Pro+(-0.0180)Tyr+(-0.0043)Val+(0.0212)Orn+(-0.0003)Lys+(-0.1377)Trp;0.784,0.811,0.736,0.722,0.734,0.789,0.737,0.746,(4.2197)+(0.0052)Gly+(-0.1392)His+(-0.0129)Arg+(0.0035)Pro+(-0.0065)Val+(0.0924)Phe;0.784,0.821,0.760,0.749,0.762,0.838,0.727,0.769,(1.4514)+(0.0423)Ser+(-0.0094)Ala+(-0.0853)Cit+(0.0183)Pro+(-0.2534)Met+(0.0122)Leu;0.784,0.821,0.779,0.795,0.783,0.787,0.722,0.772,(5.4793)+(0.0083)Thr+(0.0044)Pro+(-0.0217)Tyr+(0.0163)Orn+(-0.0039)Lys+(-0.1453)Trp;0.784,0.824,0.793,0.794,0.791,0.792,0.797,0.794,(6.0447)+(-0.0000)Gly+(-0.0121)Arg+(0.0065)Pro+(-0.0244)Val+(0.0462)Leu+(-0.1474)Trp;0.784,0.819,0.809,0.810,0.820,0.796,0.794,0.805,(6.6361)+(-0.0219)Asn+(0.0073)Pro+(0.0121)Tyr+(-0.1385)Met+(0.0111)Leu+(-0.1373)Trp;0.784,0.817,0.767,0.750,0.779,0.837,0.739,0.776,(4.2478)+(0.0091)Gln+(-0.1475)His+(0.0083)Thr+(-0.0494)Cit+(-0.0170)Arg+(0.0344)Orn;0.784,0.810,0.732,0.709,0.742,0.796,0.725,0.743,(4.1116)+(0.0066)Gly+(-0.1398)His+(-0.0438)Cit+(-0.0047)Lys+(0.0029)Leu+(0.0883)Phe;0.784,0.808,0.759,0.733,0.754,0.822,0.792,0.775,(6.7515)+(-0.0390)Asn+(-0.1276)His+(0.0187)Thr+(-0.0059)Ala+(0.0062)Pro+(0.0143)Leu;0.784,0.825,0.794,0.793,0.791,0.792,0.804,0.795,(3.9440)+(0.0042)Gln+(-0.0175)Arg+(-0.0012)Pro+(-0.0060)Lys+(0.0562)Ile+(-0.1657)Trp;0.784,0.825,0.760,0.768,0.765,0.801,0.699,0

.758,(-2.2323)+(0.0468)Ser+(-0.0040)Ala+(-0.0822)Cit+(-0.0116)Tyr+(-0.3122)Met+(0.1248)Phe;0.784,0.820,0.803,0.797,0.799,0.847,0.795,0.809,(3.9469)+(0.0117)Gln+(-0.1382)His+(-0.0363)Cit+(0.0060)Val+(-0.1170)Met+(0.0029)Lys;0.784,0.822,0.793,0.790,0.746,0.857,0.851,0.811,(3.6629)+(-0.0070)Asn+(-0.0078)Ala+(-0.1906)Met+(0.0020)Lys+(0.1783)Ile+(-0.0807)Leu;0.784,0.818,0.727,0.714,0.740,0.797,0.682,0.733,(-0.8932)+(0.0480)Ser+(-0.0579)Asn+(0.0119)Thr+(-0.0144)Arg+(-0.3168)Met+(0.0630)Ile;0.784,0.815,0.748,0.718,0.742,0.823,0.784,0.767,(5.8320)+(-0.1368)His+(0.0114)Thr+(-0.0062)Ala+(0.0054)Pro+(0.0233)Orn+(0.0118)Leu;0.784,0.811,0.759,0.754,0.699,0.835,0.843,0.783,(4.9491)+(-0.1333)Asn+(0.0030)Gly+(-0.0008)Pro+(-0.0560)Val+(0.0007)Lys+(0.1671)Ile;0.784,0.821,0.826,0.838,0.819,0.819,0.810,0.822,(4.3927)+(0.0057)Gln+(-0.0026)Ala+(-0.1421)Met+(0.0023)Lys+(0.0160)Leu+(-0.1433)Trp;0.784,0.816,0.778,0.762,0.767,0.815,0.819,0.791,(5.3979)+(-0.0249)Asn+(-0.1280)His+(-0.0043)Ala+(-0.0055)Arg+(0.0027)Lys+(0.0835)Phe;0.784,0.827,0.762,0.790,0.754,0.796,0.679,0.755,(-2.4308)+(0.0454)Ser+(-0.0173)Arg+(-0.0133)Tyr+(-0.0124)Val+(-0.3111)Met+(0.1366)Phe;0.784,0.825,0.765,0.750,0.762,0.851,0.746,0.777,(3.4821)+(0.0129)Thr+(-0.0925)Cit+(-0.2593)Met+(0.0281)Orn+(0.1618)Ile+(-0.0789)Leu;0.784,0.824,0.826,0.837,0.825,0.824,0.796,0.821,(4.6340)+(-0.0013)Gly+(0.0053)Gln+(0.0135)Tyr+(-0.1633)Met+(0.0191)Orn+(-0.1392)Trp;0.784,0.821,0.828,0.840,0.821,0.823,0.815,0.824,(4.4964)+(-0.0006)Gly+(0.0060)Gln+(-0.0026)Ala+(-0.1364)Met+(0.0168)Leu+(-0.1419)Trp;0.784,0.820,0.799,0.811,0.814,0.796,0.739,0.790,(6.9706)+(-0.0756)Asn+(0.0201)Thr+(-0.0142)Arg+(0.0025)Lys+(0.0073)Leu+(-0.1500)Trp;0.784,0.817,0.770,0.764,0.752,0.800,0.800,0.779,(5.3263)+(-0.1284)His+(-0.0030)Ala+(-0.0052)Arg+(-0.0342)Tyr+(0.0027)Leu+(0.0992)Phe;0.784,0.816,0.765,0.749,0.764,0.826,0.763,0.776,(6.9290)+(-0.0440)Asn+(-0.1205)His+(0.0155)Thr+(-0.0033)Ala+(-0.0014)Va

l+(0.0319)Orn;0.784,0.822,0.799,0.810,0.802,0.790,0.768,0.793,(6.5475)+(-0.0665)Asn+(0.0053)Pro+(-0.0139)Tyr+(0.0209)Orn+(0.0033)Lys+(-0.1352)Trp;0.784,0.817,0.806,0.810,0.813,0.796,0.788,0.802,(6.7876)+(-0.0221)Asn+(-0.0010)Arg+(0.0080)Pro+(-0.1194)Met+(0.0113)Leu+(-0.1344)Trp;0.784,0.810,0.767,0.752,0.766,0.822,0.769,0.777,(3.9960)+(0.0089)Gln+(-0.1518)His+(0.0072)Thr+(-0.0384)Cit+(0.0026)Pro+(0.0024)Val;0.784,0.821,0.743,0.702,0.748,0.796,0.800,0.762,(4.6797)+(-0.0230)Asn+(-0.1391)His+(-0.0080)Arg+(0.0195)Orn+(0.0274)Ile+(0.0504)Phe;0.784,0.820,0.725,0.693,0.743,0.809,0.712,0.739,(3.5982)+(0.0056)Gly+(-0.1355)His+(-0.0705)Cit+(-0.0078)Val+(0.0439)Orn+(0.0864)Phe;0.784,0.816,0.745,0.704,0.749,0.812,0.801,0.766,(5.7697)+(-0.0142)Asn+(-0.1312)His+(-0.0025)Pro+(0.0253)Orn+(-0.0048)Lys+(0.0451)Ile;0.784,0.832,0.731,0.702,0.751,0.821,0.702,0.744,(-0.4017)+(0.0490)Ser+(-0.0753)Cit+(0.0040)Tyr+(-0.2952)Met+(-0.0123)Lys+(0.0772)Ile;0.784,0.822,0.764,0.752,0.764,0.848,0.735,0.775,(4.6191)+(0.0440)Ser+(-0.0034)Gly+(-0.1098)His+(-0.0218)Cit+(-0.1123)Met+(0.0053)Lys;0.784,0.822,0.803,0.810,0.815,0.796,0.763,0.796,(6.6104)+(-0.0553)Asn+(-0.0102)Arg+(0.0044)Pro+(0.0228)Orn+(0.0027)Leu+(-0.1386)Trp;0.784,0.817,0.774,0.767,0.759,0.806,0.800,0.783,(5.4391)+(-0.1214)His+(-0.0034)Ala+(-0.0337)Cit+(-0.0003)Arg+(-0.0334)Tyr+(0.1055)Phe;0.784,0.814,0.748,0.728,0.743,0.824,0.759,0.764,(5.8848)+(0.0015)Gly+(-0.1286)His+(0.0090)Thr+(-0.0057)Ala+(0.0071)Pro+(0.0273)Orn;0.784,0.823,0.804,0.810,0.812,0.793,0.781,0.799,(6.3629)+(-0.0690)Asn+(0.0041)Pro+(0.0188)Orn+(0.0021)Lys+(0.0020)Leu+(-0.1410)Trp;0.784,0.822,0.760,0.747,0.766,0.846,0.716,0.769,(4.2819)+(0.0417)Ser+(-0.1183)His+(-0.0112)Arg+(0.0171)Tyr+(-0.1401)Met+(0.0075)Lys;0.784,0.822,0.832,0.847,0.825,0.817,0.818,0.827,(5.1279)+(-0.0821)Asn+(-0.0007)Gly+(0.0065)Gln+(-0.0070)Tyr+(0.0083)Leu+(-0.1434)Trp;0.784,0.821,0.827,0.834,0.831,0.813,0.812,0.822,(4.2020)+(-0.0003)

Gly+(0.0059)Gln+(0.0183)Tyr+(
-0.1844)Met+(0.0142)Leu+(-0.1473)Trp;0.784,0.821,0.787,0.784,0.728,0.874,0.857,0.811,(2.2851)+(0.0031)Gln+(-0.0141)Ala+(-0.0978)Cit+(0.0048)Pro+(0.1785)Ile+(-0.0842)Leu;0.784,0.820,0.780,0.762,0.783,0.855,0.768,0.792,(4.4892)+(0.0017)Gly+(0.0077)Gln+(-0.1306)His+(-0.0048)Ala+(-0.0750)Cit+(0.0470)Orn;0.784,0.820,0.807,0.819,0.793,0.815,0.798,0.806,(6.2725)+(-0.0005)Gly+(-0.0062)Ala+(0.0111)Pro+(-0.0047)Tyr+(-0.0002)Val+(-0.1354)Trp;0.784,0.816,0.728,0.690,0.737,0.807,0.753,0.747,(5.2702)+(-0.0251)Asn+(0.0047)Gly+(-0.1332)His+(-0.0090)Arg+(0.0225)Orn+(0.0429)Ile;0.784,0.815,0.794,0.793,0.781,0.808,0.810,0.798,(2.8116)+(-0.0780)Asn+(-0.0484)Val+(-0.2495)Met+(0.0353)Orn+(0.0623)Leu+(0.0986)Phe;0.784,0.814,0.785,0.782,0.779,0.831,0.772,0.791,(3.9260)+(0.0006)Gly+(0.0112)Gln+(-0.1541)His+(-0.0202)Arg+(0.0023)Val+(0.0030)Lys;0.784,0.813,0.788,0.781,0.771,0.847,0.798,0.799,(4.3958)+(0.0013)Gly+(0.0092)Gln+(-0.1318)His+(-0.0055)Ala+(-0.0422)Cit+(0.0092)Pro;0.784,0.820,0.809,0.816,0.816,0.810,0.773,0.804,(6.4607)+(0.0009)Gly+(0.0091)Pro+(0.0150)Tyr+(-0.0011)Val+(-0.1484)Met+(-0.1309)Trp;0.784,0.818,0.807,0.817,0.804,0.819,0.779,0.805,(5.9376)+(-0.0023)Gly+(0.0101)Thr+(-0.0049)Ala+(-0.0017)Val+(0.0200)Orn+(-0.1451)Trp;0.784,0.812,0.788,0.789,0.778,0.829,0.773,0.792,(4.0970)+(0.0114)Gln+(-0.1508)His+(-0.0200)Arg+(-0.0125)Tyr+(0.0031)Val+(0.0042)Lys;0.784,0.817,0.755,0.759,0.779,0.840,0.634,0.753,(3.5531)+(0.0378)Ser+(-0.1189)Asn+(-0.1089)Cit+(-0.0323)Tyr+(0.0584)Orn+(-0.0122)Lys;0.784,0.808,0.767,0.763,0.710,0.833,0.847,0.788,(5.4235)+(-0.0989)Asn+(-0.0126)Arg+(-0.0008)Pro+(-0.0499)Val+(0.1816)Ile+(-0.0195)Leu;0.784,0.820,0.754,0.725,0.757,0.797,0.792,0.768,(4.7656)+(-0.0364)Asn+(-0.1345)His+(0.0010)Pro+(0.0248)Orn+(-0.0056)Leu+(0.0724)Phe;0.784,0.815,0.756,0.748,0.747,0.780,0.781,0.764,(5.1826)+(-0.1283)His+(-0.0305)Cit+(-0.0418)Tyr+(0.0012)L

ys+(0.0008)Leu+(0.1015)Phe;0.784,0.817,0.769,0.755,0.777,0.836,0.742,0.778,(4.4163)+(0.0008)Gly+(0.0080)Gln+(-0.1343)His+(-0.0676)Cit+(-0.0209)Tyr+(0.0450)Orn;0.784,0.814,0.759,0.730,0.757,0.822,0.791,0.775,(6.9011)+(-0.0451)Asn+(-0.1106)His+(-0.0052)Arg+(-0.0288)Val+(0.0413)Orn+(0.0505)Leu;0.784,0.823,0.822,0.835,0.823,0.821,0.787,0.816,(4.4120)+(0.0050)Gln+(0.0153)Tyr+(-0.1745)Met+(0.0168)Orn+(0.0033)Lys+(-0.1425)Trp;0.784,0.822,0.843,0.863,0.837,0.834,0.812,0.836,(5.4953)+(-0.0753)Asn+(-0.0007)Gly+(0.0073)Gln+(-0.0092)Arg+(-0.0012)Val+(-0.1348)Trp;0.784,0.819,0.777,0.775,0.728,0.868,0.819,0.798,(3.2145)+(0.0040)Gly+(-0.0120)Ala+(-0.0889)Cit+(-0.0071)Arg+(0.1835)Ile+(-0.0841)Leu;0.784,0.818,0.723,0.699,0.720,0.791,0.742,0.738,(-2.0311)+(0.0538)Ser+(-0.0068)Gly+(0.0076)Thr+(0.0036)Pro+(-0.3881)Met+(0.0606)Ile;0.784,0.817,0.765,0.762,0.752,0.783,0.790,0.772,(5.4503)+(-0.0205)Asn+(-0.1262)His+(-0.0037)Arg+(-0.0392)Tyr+(-0.0002)Leu+(0.1012)Phe;0.784,0.821,0.831,0.851,0.823,0.829,0.798,0.825,(4.6590)+(0.0057)Gln+(-0.0017)Ala+(0.0013)Val+(-0.1335)Met+(0.0053)Lys+(-0.1394)Trp;0.784,0.812,0.721,0.735,0.687,0.808,0.690,0.730,(0.9111)+(0.0302)Ser+(-0.0372)Arg+(-0.0005)Pro+(-0.0440)Tyr+(0.1747)Ile+(-0.0915)Leu;0.784,0.814,0.719,0.732,0.690,0.807,0.679,0.727,(0.9644)+(0.0285)Ser+(-0.0398)Arg+(-0.0479)Tyr+(0.0155)Orn+(0.1724)Ile+(-0.0931)Leu;0.784,0.821,0.780,0.767,0.782,0.786,0.807,0.785,(4.8342)+(-0.0002)Gly+(-0.0021)Pro+(0.0078)Orn+(-0.0087)Lys+(0.0557)Ile+(-0.1609)Trp;0.784,0.816,0.725,0.685,0.735,0.807,0.752,0.745,(5.0512)+(0.0042)Gly+(-0.1391)His+(-0.0110)Arg+(-0.0020)Pro+(0.0226)Orn+(0.0453)Ile;0.784,0.815,0.751,0.740,0.749,0.818,0.736,0.761,(6.4685)+(0.0001)Gly+(-0.1272)His+(0.0136)Thr+(-0.0028)Ala+(-0.0205)Tyr+(0.0337)Orn;0.784,0.814,0.751,0.748,0.737,0.770,0.773,0.757,(5.1658)+(-0.1247)His+(-0.0089)Arg+(0.0064)Pro+(-0.0427)Tyr+(-0.0058)Val+(0.1069)Phe;0.784,0.825,0.799,0.794,0.789,0.840,0.800,0.806,(

3.8003)+(0.0110)Gln+(-0.1448)His+(0.0065)Tyr+(0.0043)Val+(-0.1305)Met+(0.0038)Lys;0.784,0.821,0.745,0.743,0.720,0.840,0.732,0.759,(1.2525)+(0.0420)Ser+(-0.1132)Asn+(-0.0300)Arg+(-0.0022)Pro+(0.1659)Ile+(-0.0867)Leu;0.784,0.818,0.799,0.821,0.790,0.795,0.762,0.792,(4.7248)+(0.0032)Gln+(0.0061)Pro+(-0.0166)Tyr+(-0.0022)Val+(-0.0005)Lys+(-0.1450)Trp;0.784,0.818,0.730,0.705,0.738,0.794,0.735,0.743,(3.9670)+(0.0050)Gly+(-0.1463)His+(-0.0128)Arg+(0.0235)Orn+(-0.0022)Lys+(0.0757)Phe;0.784,0.818,0.761,0.761,0.765,0.844,0.692,0.766,(2.1471)+(0.0372)Ser+(0.0091)Thr+(-0.0086)Ala+(-0.0837)Cit+(0.0187)Pro+(-0.2609)Met;0.784,0.823,0.765,0.776,0.753,0.792,0.743,0.766,(-2.7496)+(0.0546)Ser+(-0.0054)Gly+(-0.0033)Ala+(-0.0165)Arg+(-0.3281)Met+(0.1096)Phe;0.784,0.821,0.798,0.808,0.802,0.791,0.769,0.792,(6.5346)+(-0.0611)Asn+(0.0049)Pro+(-0.0134)Tyr+(0.0214)Orn+(0.0036)Leu+(-0.1354)Trp;0.784,0.821,0.788,0.804,0.788,0.781,0.748,0.780,(6.1962)+(-0.0030)Gly+(0.0129)Thr+(0.0054)Pro+(-0.0221)Tyr+(-0.0024)Lys+(-0.1476)Trp;0.784,0.815,0.761,0.737,0.773,0.832,0.750,0.773,(4.1228)+(0.0077)Gln+(-0.1456)His+(0.0044)Thr+(-0.0634)Cit+(-0.0003)Val+(0.0378)Orn;0.783,0.820,0.766,0.760,0.744,0.800,0.805,0.777,(5.0432)+(-0.1319)His+(-0.0031)Ala+(-0.0364)Tyr+(0.0022)Lys+(0.0024)Leu+(0.0971)Phe;0.783,0.817,0.766,0.729,0.783,0.836,0.775,0.781,(6.7656)+(-0.1008)His+(-0.0566)Cit+(-0.0256)Val+(-0.1132)Met+(0.0542)Orn+(0.0511)Leu;0.783,0.823,0.793,0.785,0.794,0.792,0.813,0.796,(5.9151)+(-0.0442)Asn+(-0.0082)Arg+(0.0002)Pro+(-0.0006)Lys+(0.0518)Ile+(-0.1541)Trp;0.783,0.822,0.775,0.762,0.774,0.832,0.774,0.785,(0.3915)+(0.0080)Gly+(-0.0099)Ala+(-0.0940)Cit+(-0.2766)Met+(0.0673)Ile+(0.0839)Phe;0.783,0.821,0.794,0.800,0.802,0.787,0.766,0.789,(5.8194)+(0.0072)Pro+(-0.1613)Met+(0.0172)Orn+(0.0041)Lys+(0.0072)Leu+(-0.1389)Trp;0.783,0.821,0.799,0.806,0.785,0.805,0.807,0.801,(5.8203)+(-0.0070)Ala+(0.0100)Pro+(-0.0062)Tyr+(-0.0001)Lys+(0.0117)Leu+(-0.1444

)Trp;0.783,0.819,0.809,0.814,0.799,0.855,0.782,0.813,(4.4527)+(0.0011)Gly+(0.0119)Gln+(-0.1292)His+(-0.0276)Cit+(-0.0094)Arg+(-0.0826)Met;0.783,0.816,0.757,0.723,0.757,0.807,0.809,0.774,(5.7005)+(0.0344)Asn+(-0.1173)His+(0.0016)Arg+(0.0019)Pro+(-0.1856)Met+(0.0638)Ile;0.783,0.820,0.718,0.713,0.714,0.744,0.719,0.723,(-3.9546)+(0.0577)Ser+(-0.0063)Gly+(-0.0004)Gln+(0.0098)Pro+(-0.4188)Met+(0.1029)Phe;0.783,0.815,0.764,0.749,0.756,0.786,0.805,0.774,(5.2255)+(-0.0499)Asn+(-0.1233)His+(0.0040)Pro+(-0.0099)Val+(0.0039)Lys+(0.0891)Phe;0.783,0.820,0.742,0.695,0.758,0.806,0.789,0.762,(4.7179)+(-0.0311)Asn+(-0.1296)His+(-0.0586)Cit+(0.0346)Orn+(0.0262)Ile+(0.0497)Phe;0.783,0.815,0.766,0.766,0.764,0.842,0.715,0.772,(2.1942)+(0.0399)Ser+(-0.0083)Ala+(-0.0789)Cit+(0.0196)Pro+(-0.0019)Val+(-0.2305)Met;0.783,0.823,0.728,0.741,0.754,0.780,0.603,0.719,(-3.0832)+(0.0447)Ser+(0.0209)Thr+(-0.0209)Arg+(-0.4011)Met+(-0.0090)Lys+(0.1209)Phe;0.783,0.820,0.741,0.736,0.720,0.838,0.726,0.755,(1.2352)+(0.0411)Ser+(-0.1190)Asn+(-0.0325)Arg+(0.0134)Orn+(0.1600)Ile+(-0.0875)Leu;0.783,0.815,0.770,0.753,0.779,0.837,0.744,0.779,(4.0709)+(0.0015)Gly+(0.0093)Gln+(-0.1431)His+(-0.0552)Cit+(-0.0135)Arg+(0.0387)Orn;0.783,0.813,0.752,0.731,0.746,0.824,0.771,0.768,(6.0996)+(-0.1266)His+(0.0099)Thr+(-0.0056)Ala+(0.0071)Pro+(-0.0011)Val+(0.0281)Orn;0.783,0.812,0.753,0.734,0.755,0.823,0.751,0.766,(6.2088)+(0.0010)Gly+(-0.1302)His+(0.0116)Thr+(-0.0036)Ala+(0.0309)Orn+(-0.0018)Lys;0.783,0.820,0.799,0.817,0.793,0.783,0.776,0.792,(4.8325)+(-0.0030)Gly+(0.0031)Gln+(0.0046)Pro+(-0.0241)Tyr+(0.0156)Orn+(-0.1477)Trp;0.783,0.819,0.807,0.828,0.797,0.789,0.784,0.800,(4.9861)+(-0.0027)Gly+(0.0038)Gln+(0.0063)Pro+(-0.0189)Tyr+(-0.0024)Val+(-0.1444)Trp;0.783,0.815,0.748,0.707,0.752,0.795,0.811,0.766,(5.0101)+(-0.0145)Asn+(-0.1273)His+(-0.0381)Cit+(-0.0070)Lys+(0.0383)Ile+(0.0609)Phe;0.783,0.814,0.792,0.785,0.773,0.849,0.807,0.804,(4.4738)+(0.0095)Gln+(-0.1

322)His+(-0.0054)Ala+(-0.0403)Cit+(0.0090)Pro+(-0.0001)Lys;0.783,0.815,0.757,0.734,0.768,0.831,0.740,0.768,(4.0244)+(0.0013)Gly+(0.0075)Gln+(-0.1456)His+(0.0040)Thr+(-0.0654)Cit+(0.0382)Orn;0.783,0.810,0.728,0.730,0.674,0.810,0.774,0.747,(4.0712)+(0.0167)Thr+(-0.0303)Arg+(-0.0392)Tyr+(-0.0540)Val+(-0.0082)Lys+(0.1694)Ile;0.783,0.821,0.807,0.805,0.802,0.858,0.786,0.813,(4.2076)+(0.0018)Gly+(0.0112)Gln+(-0.1309)His+(-0.0353)Cit+(0.0140)Tyr+(-0.1165)Met;0.783,0.822,0.769,0.737,0.773,0.838,0.792,0.785,(4.9480)+(-0.1227)His+(-0.0067)Ala+(-0.0736)Cit+(-0.0007)Arg+(0.0470)Orn+(0.0754)Phe;0.783,0.816,0.769,0.750,0.753,0.817,0.815,0.784,(5.1916)+(-0.1213)His+(-0.0068)Ala+(-0.0392)Cit+(0.0088)Pro+(-0.0039)Val+(0.0896)Phe;0.783,0.816,0.770,0.747,0.755,0.819,0.828,0.787,(5.2520)+(-0.1246)His+(-0.0046)Ala+(-0.0309)Cit+(-0.0163)Val+(0.0294)Leu+(0.0827)Phe;0.783,0.821,0.824,0.842,0.824,0.826,0.777,0.817,(4.9520)+(-0.0017)Gly+(0.0060)Gln+(-0.0127)Arg+(-0.1298)Met+(0.0243)Orn+(-0.1341)Trp;0.783,0.820,0.818,0.819,0.802,0.824,0.842,0.822,(7.2261)+(-0.0531)Asn+(-0.0030)Ala+(0.0001)Arg+(-0.0249)Val+(0.0551)Leu+(-0.1305)Trp;0.783,0.818,0.764,0.743,0.747,0.812,0.823,0.781,(4.8898)+(-0.1324)His+(-0.0063)Ala+(0.0067)Pro+(-0.0014)Lys+(0.0019)Leu+(0.0765)Phe;0.783,0.818,0.732,0.695,0.750,0.806,0.742,0.748,(4.2528)+(-0.1391)His+(0.0120)Thr+(-0.0628)Cit+(-0.0093)Val+(0.0400)Orn+(0.0809)Phe;0.783,0.812,0.739,0.710,0.744,0.813,0.754,0.755,(5.9952)+(0.0023)Gly+(-0.1264)His+(-0.0104)Arg+(-0.0236)Val+(0.0373)Orn+(0.0442)Leu;0.783,0.823,0.782,0.778,0.767,0.862,0.770,0.794,(5.0672)+(-0.1042)Asn+(0.0302)Thr+(-0.0560)Val+(-0.2436)Met+(0.0312)Orn+(0.0875)Leu;0.783,0.823,0.803,0.810,0.793,0.810,0.800,0.803,(6.1339)+(0.0003)Gly+(-0.0069)Ala+(-0.0102)Arg+(0.0103)Pro+(0.0118)Leu+(-0.1436)Trp;0.783,0.821,0.810,0.825,0.802,0.825,0.775,0.807,(4.8989)+(0.0027)Gln+(0.0082)Thr+(-0.0054)Ala+(0.0180)Orn+(-0.0045)Lys+(-0.1460)Trp;0.783,0.820,0.801,0.

814,0.808,0.790,0.760,0.793,(6.3151)+(0.0008)Gly+(-0.0089)Arg+(0.0097)Pro+(-0.1488)Met+(0.0104)Lys+(-0.1374)Trp;0.783,0.819,0.768,0.734,0.774,0.832,0.800,0.785,(6.4419)+(-0.1095)His+(0.0052)Tyr+(-0.0280)Val+(-0.1280)Met+(0.0389)Orn+(0.0564)Leu;0.783,0.815,0.717,0.692,0.736,0.787,0.694,0.727,(3.9497)+(0.0055)Gly+(-0.1526)His+(0.0171)Thr+(-0.0355)Cit+(-0.0150)Arg+(0.0868)Phe;0.783,0.814,0.805,0.796,0.784,0.828,0.857,0.816,(-0.5240)+(0.0051)Gln+(-0.0077)Ala+(-0.2954)Met+(-0.0138)Lys+(0.0605)Ile+(0.0737)Phe;0.783,0.811,0.739,0.727,0.735,0.790,0.738,0.748,(4.1926)+(0.0053)Gly+(-0.1409)His+(-0.0134)Arg+(-0.0062)Val+(0.0027)Lys+(0.0938)Phe;0.783,0.8

22,0.760,0.777,0.755,0.799,0.698,0.757,(-2.7817)+(0.0473)Ser+(-0.0034)Ala+(-0.0144)Arg+(-0.3158)Met+(-0.0056)Lys+(0.1154)Phe;0.783,0.822,0.800,0.821,0.807,0.806,0.724,0.790,(5.0314)+(0.0035)Gln+(0.0115)Thr+(-0.0237)Arg+(0.0051)Pro+(-0.0035)Val+(-0.1530)Trp;0.783,0.815,0.737,0.713,0.728,0.798,0.773,0.753,(5.7584)+(-0.0211)Asn+(0.0042)Gly+(-0.1249)His+(0.0005)Pro+(-0.0225)Tyr+(0.0533)Ile;0.783,0.815,0.768,0.746,0.761,0.801,0.820,0.782,(5.7738)+(-0.0501)Asn+(-0.1158)His+(-0.0241)Cit+(-0.0232)Val+(0.0345)Leu+(0.0853)Phe;0.783,0.819,0.755,0.746,0.677,0.856,0.868,0.787,(-0.1337)+(0.0336)Ser+(-0.0083)Gly+(-0.0129)Ala+(-0.0019)Orn+(0.1737)Ile+(-0.0863)Leu;0.783,0.815,0.782,0.763,0.776,0.819,0.817,0.794,(5.6256)+(-0.0272)Asn+(-0.1198)His+(-0.0048)Ala+(-0.0358)Cit+(0.0012)Lys+(0.0889)Phe;0.783,0.815,0.761,0.758,0.792,0.837,0.647,0.759,(2.3310)+(0.0416)Ser+(-0.0931)Asn+(-0.0974)Cit+(-0.0008)Arg+(-0.1747)Met+(0.0453)Orn;0.783,0.814,0.735,0.706,0.743,0.787,0.756,0.748,(4.5438)+(-0.1450)His+(0.0163)Thr+(-0.0353)Cit+(0.0011)Pro+(-0.0066)Val+(0.0862)Phe;0.783,0.813,0.722,0.734,0.690,0.812,0.693,0.732,(0.9747)+(0.0314)Ser+(-0.0347)Arg+(-0.0419)Tyr+(-0.0044)Lys+(0.1714)Ile+(-0.0880)Leu;0.783,0.823,0.777,0.772,0.771,0.779,0.804,0.781,(5.2189

)+(-0.0003)Gly+(-0.0002)Pro+(-0.0178)Tyr+(-0.0059)Lys+(0.0576)Ile+(-0.1554)Trp;0.783,0.821,0.816,0.829,0.820,0.814,0.773,0.809,(4.4905)+(0.0057)Gln+(-0.0116)Arg+(-0.1479)Met+(0.0194)Orn+(0.0109)Leu+(-0.1404)Trp;0.783,0.824,0.788,0.783,0.788,0.795,0.798,0.791,(5.6833)+(-0.0478)Asn+(0.0017)Gly+(-0.0088)Arg+(-0.0004)Lys+(0.0526)Ile+(-0.1536)Trp;0.783,0.818,0.809,0.821,0.807,0.822,0.771,0.805,(4.8550)+(0.0038)Gln+(0.0146)Thr+(-0.0057)Ala+(-0.0210)Arg+(0.0134)Leu+(-0.1594)Trp;0.783,0.814,0.715,0.685,0.729,0.784,0.712,0.728,(3.6783)+(0.0052)Gly+(-0.1530)His+(0.0131)Thr+(-0.0451)Cit+(0.0003)Leu+(0.0824)Phe;0.783,0.814,0.820,0.836,0.820,0.812,0.783,0.813,(7.0056)+(-0.0390)Asn+(0.0009)Gly+(-0.0013)Ala+(-0.0793)Met+(0.0102)Lys+(-0.1327)Trp;0.783,0.823,0.833,0.840,0.830,0.831,0.825,0.832,(4.2549)+(0.0059)Gln+(-0.0032)Ala+(0.0221)Tyr+(-0.1685)Met+(0.0167)Leu+(-0.1462)Trp;0.783,0.822,0.749,0.738,0.698,0.848,0.816,0.775,(-0.9187)+(0.0488)Ser+(-0.1356)Asn+(-0.0101)Ala+(-0.0191)Lys+(0.0537)Ile+(0.0542)Phe;0.783,0.819,0.808,0.816,0.807,0.823,0.775,0.805,(6.0997)+(-0.0024)Gly+(0.0118)Thr+(-0.0050)Ala+(0.0203)Orn+(-0.0038)Lys+(-0.1444)Trp;0.783,0.807,0.734,0.736,0.685,0.811,0.775,0.751,(3.9922)+(0.0131)Thr+(-0.0453)Cit+(-0.0237)Arg+(-0.0440)Tyr+(-0.0516)Val+(0.1631)Ile;0.783,0.814,0.770,0.741,0.779,0.843,0.778,0.785,(7.1482)+(-0.0241)Asn+(-0.0984)His+(-0.0075)Ala+(-0.0775)Cit+(0.0094)Pro+(0.0553)Orn;0.783,0.823,0.726,0.701,0.751,0.811,0.679,0.736,(-1.1176)+(0.0444)Ser+(0.0007)Gln+(-0.0919)Cit+(-0.3378)Met+(0.0201)Orn+(0.0635)Ile;0.783,0.818,0.811,0.821,0.820,0.814,0.760,0.804,(6.9387)+(-0.0327)Asn+(0.0002)Gly+(-0.0060)Arg+(-0.0797)Met+(0.0298)Orn+(-0.1260)Trp;0.783,0.815,0.751,0.739,0.750,0.817,0.738,0.761,(6.5151)+(-0.1268)His+(0.0139)Thr+(-0.0027)Ala+(-0.0205)Tyr+(0.0339)Orn+(-0.0006)Lys;0.783,0.814,0.727,0.679,0.744,0.814,0.757,0.748,(5.2427)+(-0.1381)His+(0.0109)Thr+(-0.0593)Cit+(-0.0043)Pro+(0.0344)Orn+(0.0433)Il

e;0.783,0.811,0.708,0.712,0.638,0.761,0.806,0.729,(2.1929)+(-0.0034)Gln+(0.0056)Thr+(-0.0662)Tyr+(-0.0544)Val+(0.1532)Ile+(0.0629)Phe;0.783,0.824,0.760,0.745,0.770,0.849,0.718,0.770,(4.2785)+(0.0413)Ser+(-0.1131)His+(-0.0266)Cit+(0.0193)Tyr+(-0.1480)Met+(0.0051)Lys;0.783,0.820,0.797,0.800,0.807,0.797,0.771,0.794,(5.8954)+(0.0066)Pro+(0.0085)Tyr+(-0.1633)Met+(0.0182)Orn+(0.0088)Leu+(-0.1380)Trp;0.783,0.813,0.785,0.779,0.782,0.835,0.767,0.791,(3.9530)+(0.0013)Gly+(0.0112)Gln+(-0.1493)His+(-0.0286)Cit+(-0.0141)Arg+(0.0041)Val;0.783,0.823,0.794,0.806,0.799,0.792,0.752,0.787,(4.4871)+(0.0022)Gln+(0.0050)Thr+(0.0026)Pro+(0.0125)Orn+(-0.0057)Lys+(-0.1541)Trp;0.783,0.819,0.818,0.829,0.819,0.825,0.779,0.813,(6.9972)+(-0.0475)Asn+(0.0003)Gly+(-0.0033)Ala+(-0.0083)Arg+(0.0303)Orn+(-0.1276)Trp;0.783,0.814,0.788,0.771,0.772,0.815,0.845,0.801,(1.3607)+(-0.0097)Ala+(0.0090)Pro+(-0.2777)Met+(-0.0106)Lys+(0.0527)Ile+(0.0729)Phe;0.783,0.819,0.795,0.806,0.800,0.789,0.761,0.789,(5.8897)+(-0.0024)Gly+(0.0103)Thr+(0.0045)Pro+(-0.0030)Val+(-0.0025)Lys+(-0.1501)Trp;0.783,0.824,0.756,0.745,0.775,0.821,0.700,0.760,(7.1373)+(-0.1204)His+(0.0269)Thr+(-0.0144)Arg+(-0.0077)Tyr+(-0.1296)Met+(0.0333)Orn;0.783,0.825,0.765,0.784,0.743,0.783,0.746,0.764,(-2.4182)+(0.0513)Ser+(-0.0065)Gly+(-0.0193)Tyr+(-0.0119)Val+(-0.3191)Met+(0.1304)Phe;0.783,0.820,0.787,0.786,0.740,0.854,0.839,0.805,(3.2810)+(0.0018)Gly+(-0.0079)Ala+(-0.2026)Met+(0.0014)Lys+(0.1798)Ile+(-0.0803)Leu;0.783,0.817,0.757,0.738,0.771,0.835,0.722,0.766,(6.9154)+(-0.1116)His+(0.0140)Thr+(-0.0042)Ala+(-0.0739)Cit+(-0.0214)Tyr+(0.0549)Orn;0.783,0.810,0.750,0.745,0.668,0.840,0.866,0.780,(2.2255)+(-0.0113)Ala+(0.0031)Pro+(-0.0434)Val+(0.0108)Orn+(0.1872)Ile+(-0.0309)Leu;0.783,0.809,0.738,0.712,0.741,0.809,0.748,0.752,(6.6977)+(-0.1345)His+(0.0228)Thr+(-0.0127)Arg+(-0.0234)Val+(-0.0035)Lys+(0.0498)Leu;0.783,0.824,0.794,0.791,0.768,0.862,0.805,0.806,(1.8621)+(0.0066)Gln+(-0.0789

)Cit+(-0.2477)Met+(-0.0019)Lys+(0.1742)Ile+(-0.0808)Leu;0.783,0.819,0.754,0.733,0.758,0.799,0.770,0.765,(4.7288)+(-0.1334)His+(-0.0136)Arg+(-0.0096)Val+(0.0315)Orn+(0.0007)Lys+(0.0825)Phe;0.783,0.818,0.811,0.811,0.832,0.812,0.768,0.806,(7.0663)+(-0.0716)Cit+(0.0028)Arg+(0.0031)Tyr+(0.0042)Val+(0.0004)Lys+(-0.1537)Trp;0.783,0.815,0.736,0.715,0.760,0.820,0.680,0.744,(6.3730)+(0.0020)Gly+(-0.1207)His+(0.0128)Thr+(-0.0696)Cit+(-0.0272)Tyr+(0.0518)Orn;0.783,0.815,0.770,0.751,0.781,0.835,0.753,0.780,(4.0491)+(0.0096)Gln+(-0.1447)His+(-0.0521)Cit+(-0.0140)Arg+(0.0024)Pro+(0.0363)Orn;0.783,0.815,0.734,0.711,0.755,0.812,0.695,0.743,(6.4692)+(-0.1191)His+(0.0134)Thr+(-0.0658)Cit+(0.0043)Pro+(-0.0345)Tyr+(0.0498)Orn;0.783,0.822,0.799,0.810,0.802,0.781,0.779,0.793,(4.5373)+(-0.0028)Gly+(0.0022)Gln+(0.0045)Thr+(0.0023)Pro+(0.0103)Orn+(-0.1604)Trp;0.783,0.818,0.802,0.807,0.792,0.845,0.779,0.806,(4.0393)+(0.0009)Gly+(0.0119)Gln+(-0.1403)His+(-0.0186)Arg+(-0.1062)Met+(0.0096)Lys;0.783,0.825,0.763,0.763,0.766,0.776,0.748,0.763,(5.2255)+(0.0147)Thr+(-0.0213)Arg+(-0.0001)Pro+(-0.0235)Tyr+(0.0543)Ile+(-0.1634)Trp;0.783,0.818,0.760,0.768,0.741,0.783,0.761,0.763,(-3.2350)+(0.0522)Ser+(-0.0057)Gly+(0.0003)Gln+(-0.0034)Ala+(-0.3486)Met+(0.1049)Phe;0.783,0.814,0.768,0.743,0.786,0.845,0.744,0.780,(7.3199)+(-0.0439)Asn+(-0.1063)His+(0.0155)Thr+(-0.0050)Ala+(-0.0748)Cit+(0.0523)Orn;0.783,0.813,0.738,0.712,0.735,0.804,0.769,0.755,(6.1187)+(-0.1230)His+(0.0046)Pro+(-0.0220)Tyr+(-0.0227)Val+(0.0366)Orn+(0.0423)Leu;0.783,0.820,0.803,0.812,0.816,0.795,0.761,0.796,(6.5836)+(-0.0607)Asn+(-0.0124)Arg+(0.0047)Pro+(0.0216)Orn+(0.0048)Lys+(-0.1405)Trp;0.783,0.816,0.808,0.810,0.794,0.854,0.798,0.814,(4.3266)+(0.0110)Gln+(-0.1291)His+(-0.0009)Ala+(-0.0327)Cit+(-0.1035)Met+(0.0053)Lys;0.783,0.815,0.761,0.758,0.750,0.785,0.778,0.768,(5.3239)+(-0.1232)His+(-0.0277)Cit+(-0.0024)Arg+(-0.0381)Tyr+(-0.0036)Val+(0.1088)Phe;0.783,0.812,0.776,0.775,

0.767,0.829,0.759,0.783,(4.6418)+(-0.0005)Gly+(0.0087)Gln+(-0.1403)His+(0.0113)Thr+(-0.0361)Cit+(-0.0157)Tyr;0.783,0.825,0.768,0.752,0.771,0.852,0.744,0.780,(4.6487)+(0.0469)Ser+(-0.0037)Gly+(-0.1136)His+(-0.0081)Arg+(0.0155)Tyr+(-0.1108)Met;0.783,0.825,0.751,0.768,0.742,0.794,0.692,0.749,(-2.8609)+(0.0421)Ser+(-0.0006)Gln+(-0.0146)Val+(-0.3527)Met+(0.0151)Orn+(0.1272)Phe;0.783,0.824,0.839,0.861,0.833,0.828,0.803,0.831,(5.3902)+(-0.0863)Asn+(0.0071)Gln+(-0.0133)Arg+(-0.0032)Val+(0.0081)Lys+(-0.1378)Trp;0.783,0.820,0.809,0.823,0.799,0.819,0.789,0.807,(6.5495)+(-0.0000)Gly+(-0.0060)Ala+(-0.0095)Arg+(0.0114)Pro+(-0.0000)Val+(-0.1343)Trp;0.783,0.815,0.761,0.739,0.772,0.832,0.746,0.772,(3.9714)+(0.0015)Gly+(0.0079)Gln+(-0.1440)His+(-0.0658)Cit+(0.0002)Val+(0.0396)Orn;0.783,0.817,0.756,0.722,0.774,0.810,0.766,0.768,(5.0713)+(-0.0375)Asn+(-0.1226)His+(-0.0631)Cit+(0.0433)Orn+(-0.0072)Leu+(0.0746)Phe;0.783,0.822,0.727,0.703,0.745,0.805,0.695,0.737,(-1.3227)+(0.0461)Ser+(0.0014)Gln+(-0.0787)Cit+(0.0042)Pro+(-0.3509)Met+(0.0651)Ile;0.783,0.822,0.705,0.705,0.719,0.761,0.638,0.706,(-3.7901)+(0.0464)Ser+(0.0132)Thr+(0.0093)Pro+(-0.4298)Met+(-0.0129)Lys+(0.1168)Phe;0.783,0.822,0.801,0.813,0.809,0.801,0.755,0.794,(6.8159)+(-0.0529)Asn+(-0.0097)Arg+(0.0056)Pro+(-0.0112)Tyr+(0.0253)Orn+(-0.1318)Trp;0.783,0.821,0.717,0.725,0.727,0.758,0.646,0.714,(-3.9472)+(0.0509)Ser+(0.0002)Gln+(-0.0198)Arg+(0.0102)Pro+(-0.4054)Met+(0.1111)Phe;0.783,0.818,0.766,0.748,0.752,0.808,0.814,0.781,(5.0704)+(-0.1305)His+(-0.0064)Ala+(-0.0091)Arg+(0.0073)Pro+(0.0011)Lys+(0.0795)Phe;0.783,0.811,0.765,0.763,0.756,0.822,0.750,0.773,(4.4634)+(0.0085)Gln+(-0.1393)His+(0.0101)Thr+(-0.0374)Cit+(0.0054)Pro+(-0.0222)Tyr;0.783,0.821,0.796,0.809,0.802,0.794,0.749,0.789,(6.8672)+(-0.0804)Asn+(0.0189)Thr+(-0.0131)Tyr+(0.0001)Lys+(0.0095)Leu+(-0.1461)Trp;0.783,0.819,0.750,0.715,0.765,0.816,0.760,0.764,(4.8430)+(-0.1237)His+(-0.0672)Cit+(-0.0079)Val+(0.04

93)Orn+(-0.0064)Lys+(0.0832)Phe;0.783,0.818,0.750,0.744,0.781,0.831,0.642,0.749,(1.9199)+(0.0443)Ser+(-0.0877)Asn+(-0.0965)Cit+(0.0085)Pro+(-0.2174)Met+(0.0395)Orn;0.783,0.810,0.775,0.766,0.770,0.831,0.771,0.784,(4.1173)+(0.0011)Gly+(0.0096)Gln+(-0.1426)His+(-0.0372)Cit+(0.0044)Pro+(-0.0020)Lys;0.783,0.811,0.766,0.762,0.710,0.830,0.848,0.787,(5.4750)+(-0.1126)Asn+(-0.0127)Arg+(0.0001)Pro+(-0.0572)Val+(0.0031)Lys+(0.1672)Ile;0.783,0.815,0.757,0.749,0.749,0.781,0.780,0.765,(5.2700)+(-0.1272)His+(-0.0299)Cit+(-0.0011)Arg+(-0.0407)Tyr+(0.0011)Leu+(0.1019)Phe;0.783,0.815,0.774,0.757,0.782,0.839,0.755,0.783,(4.1771)+(0.0096)Gln+(-0.1429)His+(-0.0532)Cit+(-0.0136)Arg+(-0.0004)Val+(0.0385)Orn;0.783,0.815,0.743,0.722,0.767,0.821,0.694,0.751,(6.8603)+(-0.1161)His+(0.0155)Thr+(-0.0693)Cit+(-0.0276)Tyr+(0.0541)Orn+(-0.0045)Lys;0.783,0.818,0.736,0.717,0.742,0.794,0.733,0.746,(6.6890)+(-0.0425)Asn+(-0.1334)His+(0.0195)Thr+(-0.0322)Tyr+(0.0293)Orn+(0.0132)Leu;0.783,0.817,0.804,0.810,0.813,0.802,0.772,0.799,(6.4463)+(-0.0316)Asn+(0.0005)Gly+(-0.1045)Met+(0.0237)Orn+(0.0105)Leu+(-0.1336)Trp;0.783,0.812,0.790,0.788,0.784,0.833,0.776,0.795,(4.1740)+(0.0116)Gln+(-0.1455)His+(-0.0277)Cit+(-0.0132)Arg+(-0.0113)Tyr+(0.0048)Val;0.783,0.810,0.772,0.769,0.757,0.817,0.777,0.780

,(4.2008)+(-0.0005)Gly+(0.0091)Gln+(-0.1442)His+(0.0056)Pro+(-0.0180)Tyr+(0.0003)Lys;0.783,0.826,0.845,0.859,0.843,0.847,0.812,0.840,(4.8076)+(0.0067)Gln+(-0.0018)Ala+(-0.0087)Arg+(0.0244)Tyr+(-0.1443)Met+(-0.1375)Trp;0.783,0.822,0.808,0.821,0.799,0.813,0.788,0.805,(6.2709)+(0.0000)Gly+(-0.0064)Ala+(-0.0135)Arg+(0.0113)Pro+(0.0056)Lys+(-0.1402)Trp;0.783,0.819,0.811,0.825,0.812,0.797,0.779,0.804,(7.1246)+(-0.0651)Asn+(-0.0100)Arg+(0.0079)Pro+(-0.0056)Val+(0.0102)Lys+(-0.1338)Trp;0.783,0.815,0.764,0.740,0.774,0.832,0.759,0.776,(4.0435)+(0.0081)Gln+(-0.1435)His+(-0.0632)Cit+(0.0022)Pro+(-0.0010)Val+(0.0386)Orn;0.783,

0.815,0.791,0.780,0.775,0.849,0.812,0.804,(4.1987)+(0.0098)Gln+(-0.13
87)His+(-0.0061)Ala+(-0.0437)Cit+(0.0080)Pro+(0.0049)Val;0.783,0.820,
0.815,0.821,0.823,0.807,0.788,0.810,(7.0658)+(-0.0243)Asn+(-0.0017)Ar
g+(0.0087)Pro+(0.0131)Tyr+(-0.1203)Met+(-0.1299)Trp;0.783,0.822,0.739
,0.697,0.743,0.803,0.799,0.760,(4.5954)+(-0.1404)His+(-0.0073)Arg+(0.
0212)Orn+(-0.0073)Lys+(0.0322)Ile+(0.0522)Phe;0.783,0.808,0.738,0.708
,0.742,0.811,0.757,0.754,(6.6676)+(-0.1310)His+(0.0215)Thr+(-0.0289)C
it+(-0.0214)Val+(-0.0072)Lys+(0.0495)Leu;0.783,0.822,0.766,0.748,0.77
1,0.851,0.739,0.777,(4.5889)+(0.0454)Ser+(-0.0030)Gly+(-0.1100)His+(-
0.0234)Cit+(0.0176)Tyr+(-0.1244)Met;0.783,0.821,0.817,0.827,0.819,0.8
09,0.790,0.811,(4.4378)+(-0.0012)Gly+(0.0053)Gln+(-0.1596)Met+(0.0165
)Orn+(0.0115)Leu+(-0.1424)Trp;0.783,0.816,0.761,0.736,0.764,0.835,0.7
68,0.776,(6.1678)+(0.0036)Gly+(-0.1242)His+(-0.0032)Ala+(-0.0921)Met+
(0.0321)Orn+(0.0181)Leu;0.783,0.815,0.726,0.702,0.734,0.797,0.723,0.7
39,(6.2142)+(-0.1402)His+(0.0173)Thr+(-0.0311)Tyr+(0.0294)Orn+(-0.004
8)Lys+(0.0153)Leu;0.783,0.812,0.789,0.783,0.785,0.833,0.781,0.795,(4.
0290)+(0.0115)Gln+(-0.1496)His+(-0.0260)Cit+(-0.0149)Arg+(0.0034)Val+
(0.0010)Lys;0.783,0.812,0.785,0.779,0.779,0.828,0.782,0.792,(4.1640)+
(0.0105)Gln+(-0.1443)His+(-0.0378)Cit+(-0.0128)Tyr+(0.0056)Val+(-0.00
19)Lys;0.783,0.823,0.743,0.757,0.737,0.785,0.686,0.741,(-3.5336)+(0.0
411)Ser+(0.0133)Thr+(-0.0041)Ala+(-0.3973)Met+(0.0000)Orn+(0.1118)Phe
;0.783,0.817,0.742,0.728,0.747,0.800,0.726,0.750,(6.8018)+(-0.0442)As
n+(-0.1214)His+(0.0171)Thr+(0.0048)Pro+(-0.0310)Tyr+(0.0316)Orn;0.783
,0.820,0.757,0.743,0.777,0.823,0.702,0.761,(6.8808)+(-0.1239)His+(0.0
266)Thr+(-0.0163)Arg+(-0.1577)Met+(0.0294)Orn+(0.0061)Lys;0.783,0.815
,0.786,0.796,0.723,0.846,0.851,0.804,(4.5263)+(-0.0584)Asn+(-0.0086)A
la+(-0.0322)Tyr+(0.0005)Lys+(0.1688)Ile+(-0.0815)Leu;0.783,0.814,0.78
1,0.791,0.716,0.843,0.848,0.799,(4.6178)+(-0.0591)Asn+(-0.0098)Ala+(0

.0062)Pro+(-0.0344)Tyr+(0.1605)Ile+(-0.0794)Leu;0.783,0.810,0.758,0.754,0.698,0.835,0.837,0.781,(4.8320)+(-0.1307)Asn+(0.0029)Gly+(-0.0514)Val+(0.0014)Lys+(0.1759)Ile+(-0.0151)Leu;0.783,0.823,0.811,0.822,0.805,0.806,0.801,0.809,(4.8240)+(0.0042)Gln+(-0.0159)Arg+(-0.0220)Val+(0.0001)Lys+(0.0440)Leu+(-0.1530)Trp;0.783,0.822,0.804,0.812,0.794,0.809,0.800,0.804,(6.0778)+(-0.0070)Ala+(-0.0120)Arg+(0.0104)Pro+(0.0030)Lys+(0.0103)Leu+(-0.1455)Trp;0.783,0.820,0.728,0.719,0.652,0.840,0.829,0.760,(0.3109)+(0.0269)Ser+(-0.0032)Gln+(-0.0135)Ala+(0.0047)Pro+(0.1657)Ile+(-0.0826)Leu;0.783,0.816,0.782,0.764,0.775,0.822,0.817,0.794,(5.6303)+(-0.0276)Asn+(-0.1191)His+(-0.0047)Ala+(-0.0375)Cit+(0.0021)Arg+(0.0895)Phe;0.783,0.810,0.730,0.704,0.732,0.794,0.749,0.745,(4.0612)+(0.0056)Gly+(-0.1380)His+(-0.0359)Cit+(-0.0156)Val+(0.0248)Leu+(0.0844)Phe;0.783,0.807,0.721,0.722,0.672,0.801,0.760,0.739,(3.5470)+(0.0112)Thr+(-0.0379)Arg+(-0.0457)Tyr+(-0.0569)Val+(0.0283)Orn+(0.1658)Ile;0.783,0.823,0.817,0.816,0.811,0.820,0.830,0.819,(7.1393)+(-0.0329)Asn+(0.0040)Arg+(-0.0264)Val+(-0.1033)Met+(0.0591)Leu+(-0.1262)Trp;0.783,0.821,0.804,0.817,0.789,0.814,0.794,0.804,(6.0132)+(-0.0063)Ala+(0.0111)Pro+(-0.0060)Tyr+(-0.0008)Val+(0.0027)Lys+(-0.1375)Trp;0.783,0.819,0.726,0.705,0.732,0.805,0.710,0.738,(-0.7986)+(0.0477)Ser+(-0.0562)Asn+(0.0105)Thr+(-0.2991)Met+(-0.0107)Lys+(0.0683)Ile;0.783,0.818,0.724,0.704,0.719,0.792,0.738,0.738,(-1.7096)+(0.0523)Ser+(-0.0070)Gly+(0.0094)Thr+(-0.0110)Tyr+(-0.3637)Met+(0.0650)Ile;0.783,0.818,0.794,0.811,0.796,0.791,0.748,0.787,(6.0378)+(-0.0033)Gly+(0.0105)Thr+(-0.0203)Tyr+(-0.0034)Val+(0.0206)Orn+(-0.1435)Trp;0.783,0.816,0.803,0.817,0.798,0.813,0.771,0.800,(6.0812)+(-0.0027)Gly+(0.0115)Thr+(-0.0046)Ala+(-0.0122)Tyr+(0.0203)Orn+(-0.1438)Trp;0.783,0.815,0.743,0.699,0.746,0.799,0.813,0.764,(4.7878)+(-0.1305)His+(-0.0421)Cit+(0.0037)Arg+(-0.0093)Lys+(0.0405)Ile+(0.0599)Phe;0.783,0.812,0.730,0.716,0.735

,0.797,0.709,0.739,(6.1184)+(0.0002)Gly+(-0.1306)His+(0.0128)Thr+(0.0046)Pro+(-0.0310)Tyr+(0.0308)Orn;0.783,0.809,0.743,0.718,0.735,0.818,0.772,0.761,(5.8209)+(0.0023)Gly+(-0.1367)His+(0.0133)Thr+(-0.0061)Ala+(0.0062)Pro+(0.0158)Leu;0.783,0.823,0.842,0.855,0.837,0.841,0.819,0.838,(4.6086)+(0.0061)Gln+(-0.0023)Ala+(0.0224)Tyr+(0.0020)Val+(-0.1523)Met+(-0.1408)Trp;0.783,0.821,0.781,0.760,0.785,0.847,0.778,0.793,(4.0717)+(0.0295)Thr+(-0.0096)Ala+(-0.0905)Cit+(-0.2453)Met+(-0.0123)Lys+(0.0805)Ile;0.783,0.818,0.799,0.818,0.798,0.787,0.764,0.792,(5.0782)+(-0.0039)Gly+(0.0027)Gln+(0.0086)Thr+(-0.0242)Tyr+(0.0150)Orn+(-0.1512)Trp;0.783,0.818,0.752,0.748,0.708,0.835,0.796,0.772,(-1.1132)+(0.0470)Ser+(-0.1489)Asn+(-0.0107)Ala+(-0.0190)Arg+(0.0438)Ile+(0.0518)Phe;0.783,0.814,0.679,0.642,0.637,0.812,0.770,0.715,(1.7057)+(0.0327)Ser+(-0.0053)Gln+(-0.0526)Val+(0.0205)Orn+(-0.0217)Lys+(0.1635)Ile;0.783,0.821,0.740,0.718,0.748,0.808,0.732,0.751,(-1.3800)+(0.0503)Ser+(-0.0039)Gly+(0.0020)Gln+(-0.0729)Cit+(-0.3396)Met+(0.0682)Ile;0.783,0.821,0.813,0.815,0.806,0.810,0.830,0.815,(7.0459)+(-0.0734)Asn+(0.0027)Tyr+(-0.0268)Val+(0.0055)Lys+(0.0512)Leu+(-0.1353)Trp;0.783,0.816,0.780,0.760,0.775,0.821,0.818,0.793,(5.6437)+(-0.0244)Asn+(-0.1205)His+(-0.0050)Ala+(-0.0364)Cit+(0.0034)Leu+(0.0860)Phe;0.783,0.823,0.836,0.853,0.828,0.819,0.816,0.829,(5.3030)+(-0.0878)Asn+(-0.0008)Gly+(0.0065)Gln+(-0.0055)Tyr+(0.0041)Lys+(-0.1404)Trp;0.783,0.820,0.803,0.816,0.801,0.821,0.760,0.799,(5.7597)+(0.0099)Thr+(-0.0050)Ala+(-0.0008)Val+(0.0206)Orn+(-0.0032)Lys+(-0.1426)Trp;0.783,0.817,0.755,0.752,0.743,0.776,0.775,0.762,(5.1144)+(-0.1333)His+(-0.0084)Arg+(-0.0428)Tyr+(0.0045)Lys+(-0.0018)Leu+(0.1011)Phe;0.783,0.815,0.762,0.746,0.762,0.832,0.756,0.774,(6.3012)+(0.0031)Gly+(-0.1097)His+(-0.0047)Ala+(0.0104)Pro+(-0.0931)Met+(0.0333)Orn;0.783,0.813,0.737,0.704,0.735,0.807,0.778,0.756,(5.4225)+(-0.0245)Asn+(0.0048)Gly+(-0.1301)His+(-0.0012)Pro+

(-0.0018)Lys+(0.0514)Ile;0.783,0.810,0.730,0.704,0.729,0.802,0.750,0.746,(5.5412)+(0.0051)Gly+(-0.1211)His+(-0.0425)Cit+(0.0004)Pro+(-0.0228)Tyr+(0.0565)Ile;0.783,0.818,0.799,0.812,0.813,0.808,0.728,0.790,(6.4358)+(-0.0026)Gly+(0.0144)Thr+(-0.0223)Arg+(-0.0047)Val+(0.0238)Orn+(-0.1471)Trp;0.783,0.816,0.811,0.817,0.813,0.815,0.791,0.809,(6.5862)+(-0.0293)Asn+(-0.0030)Ala+(-0.0869)Met+(0.0254)Orn+(0.0124)Leu+(-0.1320)Trp;0.783,0.816,0.738,0.722,0.737,0.799,0.735,0.748,(-1.6833)+(0.0493)Ser+(-0.0719)Asn+(0.0017)Gln+(-0.2978)Met+(-0.0000)Orn+(0.0616)Ile;0.783,0.814,0.758,0.727,0.756,0.808,0.810,0.775,(5.6995)+(0.0328)Asn+(-0.1199)His+(0.0006)Arg+(-0.1848)Met+(0.0030)Lys+(0.0643)Ile;0.783,0.830,0.772,0.762,0.763,0.850,0.760,0.784,(3.8200)+(0.0190)Thr+(-0.0755)Cit+(-0.2660)Met+(-0.0029)Lys+(0.1659)Ile+(-0.0751)Leu;0.783,0.823,0.736,0.741,0.737,0.757,0.707,0.735,(-3.6741)+(0.0519)Ser+(-0.0066)Gly+(0.0139)Thr+(-0.4267)Met+(-0.0013)Orn+(0.1065)Phe;0.783,0.808,0.734,0.741,0.674,0.803,0.793,0.753,(4.4313)+(-0.0038)Gly+(0.0169)Thr+(-0.0329)Arg+(-0.0470)Tyr+(-0.0557)Val+(0.1689)Ile;0.783,0.814,0.748,0.724,0.738,0.791,0.803,0.764,(5.0831)+(-0.1325)His+(-0.0100)Arg+(0.0037)Pro+(-0.0214)Val+(0.0302)Leu+(0.0775)Phe;0.783,0.814,0.755,0.733,0.744,0.797,0.808,0.771,(5.1335)+(-0.1330)His+(-0.0086)Arg+(-0.0204)Val+(0.0001)Lys+(0.0303)Leu+(0.0791)Phe;0.783,0.817,0.748,0.738,0.740,0.774,0.771,0.756,(5.0531)+(-0.1274)His+(-0.0320)Cit+(0.0052)Pro+(-0.0470)Tyr+(0.0007)Lys+(0.1004)Phe;0.783,0.816,0.697,0.718,0.636,0.757,0.724,0.709,(-2.0662)+(0.0202)Ser+(-0.0033)Pro+(-0.0826)Tyr+(0.1650)Ile+(-0.0999)Leu+(0.0876)Phe;0.783,0.822,0.815,0.814,0.807,0.821,0.828,0.817,(6.6707)+(-0.0019)Ala+(0.0020)Arg+(-0.0249)Val+(-0.1161)Met+(0.0591)Leu+(-0.1298)Trp;0.783,0.820,0.813,0.827,0.820,0.814,0.762,0.806,(7.0432)+(-0.0656)Asn+(-0.0126)Arg+(-0.0063)Val+(0.0301)Orn+(0.0079)Lys+(-0.1289)Trp;0.783,0.816,0.757,0.725,0.757,0.803,0.806,0.773,(5.

6452)+(0.0332)Asn+(-0.1192)His+(0.0020)Pro+(-0.1907)Met+(0.0032)Lys+(0.0620)Ile;0.783,0.821,0.790,0.800,0.795,0.778,0.761,0.783,(4.1501)+(0.0019)Gln+(0.0028)Thr+(0.0021)Pro+(0.0090)Orn+(0.0037)Leu+(-0.1624)Trp;0.783,0.821,0.792,0.799,0.803,0.785,0.756,0.786,(5.5689)+(-0.0025)Gly+(0.0086)Thr+(0.0026)Pro+(0.0149)Orn+(-0.0053)Lys+(-0.1529)Trp;0.783,0.819,0.810,0.825,0.800,0.823,0.778,0.807,(4.7782)+(0.0024)Gln+(0.0064)Thr+(-0.0053)Ala+(-0.0011)Val+(0.0173)Orn+(-0.1476)Trp;0.783,0.819,0.836,0.855,0.829,0.831,0.807,0.830,(4.8620)+(-0.0012)Gly+(0.0063)Gln+(-0.0018)Ala+(0.0025)Val+(-0.1200)Met+(-0.1364)Trp;0.783,0.817,0.802,0.804,0.793,0.851,0.781,0.807,(4.1801)+(0.0014)Gly+(0.0108)Gln+(-0.1302)His+(-0.0338)Cit+(-0.1124)Met+(0.0054)Lys;0.783,0.815,0.731,0.716,0.731,0.794,0.728,0.742,(-1.6559)+(0.0497)Ser+(-0.0709)Asn+(0.0015)Gln+(0.0033)Pro+(-0.3066)Met+(0.0579)Ile;0.783,0.811,0.796,0.801,0.781,0.840,0.784,0.802,(4.3393)+(0.0111)Gln+(-0.1446)His+(-0.0019)Ala+(-0.0201)Arg+(-0.0063)Tyr+(0.0058)Lys;0.783,0.816,0.759,0.734,0.770,0.829,0.751,0.771,(4.0213)+(0.0078)Gln+(-0.1467)His+(0.0039)Thr+(-0.0628)Cit+(0.0016)Pro+(0.0365)Orn;0.782,0.808,0.731,0.708,0.734,0.808,0.732,0.746,(6.3635)+(0.0016)Gly+(-0.1365)His+(0.0210)Thr+(-0.0147)Arg+(-0.0226)Val+(0.0474)Leu;0.782,0.816,0.770,0.763,0.795,0.839,0.687,0.771,(2.3895)+(0.0473)Ser+(-0.0885)Asn+(-0.0044)Gly+(-0.0922)Cit+(-0.1825)Met+(0.0445)Orn;0.782,0.821,0.814,0.827,0.822,0.815,0.761,0.806,(7.1030)+(-0.0560)Asn+(-0.0000)Gly+(-0.0090)Arg+(-0.0044)Val+(0.0318)Orn+(-0.1250)Trp;0.782,0.819,0.811,0.820,0.820,0.812,0.770,0.805,(6.0167)+(0.0152)Tyr+(-0.0029)Val+(-0.1487)Met+(0.0238)Orn+(0.0061)Lys+(-0.1357)Trp;0.782,0.818,0.784,0.781,0.748,0.847,0.824,0.800,(4.0628)+(-0.0078)Ala+(-0.0171)Arg+(-0.1731)Met+(0.0205)Orn+(0.1795)Ile+(-0.0846)Leu;0.782,0.818,0.817,0.824,0.821,0.828,0.783,0.814,(6.2588)+(0.0002)Gly+(-0.0027)Ala+(0.0171)Tyr

+(-0.1214)Met+(0.0264)Orn+(-0.1314)Trp;0.782,0.817,0.708,0.665,0.735,0.802,0.694,0.724,(3.3327)+(0.0055)Gly+(-0.1501)His+(0.0089)Thr+(-0.0690)Cit+(0.0346)Orn+(0.0727)Phe;0.782,0.814,0.750,0.722,0.757,0.825,0.757,0.765,(6.4211)+(-0.1372)His+(0.0167)Thr+(-0.0047)Ala+(-0.0144)Arg+(0.0278)Orn+(0.0125)Leu;0.782,0.820,0.831,0.849,0.826,0.820,0.800,0.824,(4.7137)+(-0.0012)Gly+(0.0059)Gln+(0.0004)Val+(-0.1438)Met+(0.0055)Lys+(-0.1403)Trp;0.782,0.819,0.798,0.807,0.807,0.797,0.754,0.791,(5.8234)+(-0.0028)Gly+(0.0095)Thr+(-0.0036)Val+(0.0190)Orn+(-0.0040)Lys+(-0.1471)Trp;0.782,0.813,0.796,0.790,0.783,0.846,0.805,0.806,(4.2406)+(0.0104)Gln+(-0.1414)His+(-0.0036)Ala+(-0.0408)Cit+(-0.0077)Tyr+(0.0071)Val;0.782,0.809,0.766,0.754,0.764,0.824,0.760,0.775,(4.1173)+(0.0006)Gly+(0.0086)Gln+(-0.1477)His+(0.0071)Thr+(-0.0380)Cit+(0.0034)Pro;0.782,0.820,0.772,0.777,0.755,0.832,0.754,0.779,(0.2799)+(0.0460)Ser+(-0.1536)Asn+(-0.0082)Ala+(-0.0793)Cit+(-0.0035)Arg+(0.0831)Phe;0.782,0.815,0.758,0.734,0.769,0.831,0.746,0.770,(3.8862)+(0.0016)Gly+(0.0078)Gln+(-0.1447)His+(-0.0654)Cit+(0.0021)Pro+(0.0383)Orn;0.782,0.817,0.775,0.779,0.797,0.844,0.668,0.772,(1.4505)+(0.0391)Ser+(-0.1088)Asn+(0.0038)Gln+(-0.1011)Cit+(-0.1811)Met+(0.0420)Orn;0.782,0.813,0.767,0.753,0.788,0.844,0.705,0.772,(3.9425)+(0.0266)Thr+(-0.0848)Cit+(-0.0450)Val+(-0.3157)Met+(0.0442)Orn+(0.0731)Leu;0.782,0.811,0.722,0.738,0.687,0.810,0.691,0.731,(0.8063)+(0.0295)Ser+(0.0005)Gln+(-0.0378)Arg+(-0.0448)Tyr+(0.1740)Ile+(-0.0916)Leu;0.782,0.812,0.742,0.727,0.750,0.831,0.697,0.751,(4.6430)+(0.0380)Ser+(-0.1234)His+(-0.0200)Cit+(-0.0113)Arg+(-0.0030)Tyr+(0.0022)Lys;0.782,0.812,0.710,0.696,0.649,0.822,0.797,0.741,(0.5981)+(0.0269)Ser+(-0.0053)Pro+(-0.0435)Val+(-0.0200)Lys+(0.1851)Ile+(-0.0260)Leu;0.782,0.823,0.813,0.828,0.815,0.812,0.773,0.807,(6.8882)+(-0.0721)Asn+(-0.0054)Tyr+(-0.0055)Val+(0.0278)Orn+(0.0055)Lys+(-0.1278)Trp;0.782,0.822,0.764,0.754,0.765,0.840,0.735,

0.774,(4.6714)+(0.0453)Ser+(-0.0039)Gly+(-0.1141)His+(-0.0112)Arg+(-0.1064)Met+(0.0073)Lys;0.782,0.820,0.802,0.820,0.795,0.781,0.788,0.796,(4.7044)+(-0.0025)Gly+(0.0036)Gln+(0.0049)Pro+(-0.0214)Tyr+(0.0060)Leu+(-0.1529)Trp;0.782,0.816,0.726,0.709,0.727,0.791,0.721,0.737,(-1.3390)+(0.0510)Ser+(-0.0641)Asn+(0.0035)Pro+(-0.3058)Met+(0.0003)Orn+(0.0585)Ile;0.782,0.823,0.829,0.845,0.822,0.815,0.812,0.823,(5.0461)+(-0.0868)Asn+(0.0063)Gln+(-0.0072)Tyr+(0.0023)Lys+(0.0073)Leu+(-0.1444)Trp;0.782,0.818,0.745,0.749,0.756,0.770,0.694,0.742,(-2.4478)+(0.0532)Ser+(-0.0040)Gly+(-0.0758)Cit+(-0.0206)Tyr+(-0.3318)Met+(0.1224)Phe;0.782,0.814,0.748,0.743,0.736,0.768,0.771,0.755,(5.1048)+(-0.1295)His+(-0.0077)Arg+(0.0054)Pro+(-0.0453)Tyr+(-0.0021)Leu+(0.1005)Phe;0.782,0.811,0.733,0.700,0.740,0.808,0.751,0.750,(5.5449)+(-0.0253)Asn+(0.0065)Gly+(-0.1188)His+(-0.0455)Cit+(-0.0030)Lys+(0.0546)Ile;0.782,0.823,0.768,0.757,0.768,0.849,0.738,0.778,(5.0087)+(0.0456)Ser+(-0.0039)Gly+(-0.1073)His+(-0.0176)Cit+(-0.0056)Arg+(-0.0837)Met;0.782,0.822,0.804,0.822,0.817,0.805,0.731,0.794,(7.6842)+(-0.0686)Asn+(-0.0013)Gly+(0.0228)Thr+(-0.0121)Arg+(-0.0078)Tyr+(-0.1400)Trp;0.782,0.821,0.806,0.817,0.808,0.789,0.783,0.799,(4.6284)+(-0.0024)Gly+(0.0030)Gln+(0.0030)Pro+(0.0147)Orn+(-0.0046)Lys+(-0.1522)Trp;0.782,0.821,0.719,0.664,0.737,0.800,0.767,0.742,(3.9510)+(-0.1480)His+(0.0107)Thr+(-0.0579)Cit+(0.0279)Orn+(0.0271)Ile+(0.0477)Phe;0.782,0.820,0.740,0.701,0.747,0.814,0.775,0.759,(4.5305)+(-0.1293)His+(-0.0594)Cit+(-0.0223)Val+(0.0462)Orn+(0.0287)Leu+(0.0701)Phe;0.782,0.819,0.749,0.739,0.754,0.807,0.726,0.757,(7.0295)+(-0.0452)Asn+(-0.1200)His+(0.0176)Thr+(-0.0245)Tyr+(-0.0014)Val+(0.0346)Orn;0.782,0.813,0.784,0.776,0.781,0.832,0.778,0.792,(4.0008)+(0.0113)Gln+(-0.1484)His+(-0.0262)Cit+(-0.0150)Arg+(0.0039)Pro+(0.0022)Val;0.782,0.819,0.761,0.769,0.743,0.784,0.759,0.764,(-3.1117)+(0.0523)Ser+(-0.0057)Gly+(-0.0033)Ala+(-0.3455)Met+(-0.0016

)Leu+(0.1066)Phe;0.782,0.817,0.793,0.811,0.795,0.797,0.736,0.785,(4.8011)+(0.0024)Gln+(0.0076)Thr+(-0.0184)Tyr+(0.0163)Orn+(-0.0049)Lys+(-0.1471)Trp;0.782,0.816,0.774,0.781,0.758,0.831,0.749,0.780,(0.3693)+(0.0457)Ser+(-0.1571)Asn+(-0.0075)Ala+(-0.0801)Cit+(-0.0066)Leu+(0.0891)Phe;0.782,0.810,0.766,0.764,0.708,0.830,0.842,0.786,(5.3419)+(-0.1061)Asn+(-0.0149)Arg+(-0.0507)Val+(0.0045)Lys+(0.1813)Ile+(-0.0212)Leu;0.782,0.823,0.819,0.810,0.822,0.820,0.835,0.822,(6.4196)+(0.0003)Arg+(0.0288)Tyr+(-0.0282)Val+(-0.1722)Met+(0.0615)Leu+(-0.1344)Trp;0.782,0.822,0.732,0.750,0.757,0.774,0.600,0.720,(-3.2818)+(0.0437)Ser+(0.0195)Thr+(-0.0247)Arg+(-0.4128)Met+(-0.0057)Leu+(0.1221)Phe;0.782,0.822,0.810,0.813,0.803,0.816,0.815,0.812,(7.0061)+(-0.0630)Asn+(0.0016)Gly+(-0.0014)Arg+(-0.0261)Val+(0.0537)Leu+(-0.1320)Trp;0.782,0.821,0.743,0.754,0.681,0.816,0.789,0.760,(-0.9245)+(0.0458)Ser+(-0.1551)Asn+(-0.0086)Ala+(-0.0529)Tyr+(0.0435)Ile+(0.0722)Phe;0.782,0.816,0.812,0.825,0.813,0.820,0.772,0.807,(6.2076)+(-0.0021)Ala+(-0.0016)Val+(-0.1123)Met+(0.0265)Orn+(0.0056)Lys+(-0.1310)Trp;0.782,0.814,0.715,0.685,0.729,0.784,0.712,0.728,(3.6822)+(0.0052)Gly+(-0.1529)His+(0.0131)Thr+(-0.0451)Cit+(-0.0000)Pro+(0.0828)Phe;0.782,0.814,0.818,0.834,0.821,0.808,0.778,0.810,(6.9929)+(-0.0401)Asn+(0.0009)Gly+(-0.0008)Val+(-0.0869)Met+(0.0105)Lys+(-0.1332)Trp;0.782,0.822,0.704,0.714,0.712,0.742,0.635,0.701,(-4.2241)+(0.0449)Ser+(0.0096)Thr+(0.0100)Pro+(-0.4490)Met+(-0.0091)Leu+(0.1170)Phe;0.782,0.819,0.747,0.734,0.753,0.806,0.724,0.754,(6.9385)+(-0.0442)Asn+(-0.1228)His+(0.0174)Thr+(-0.0263)Tyr+(0.0334)Orn+(0.0009)Lys;0.782,0.819,0.811,0.826,0.806,0.795,0.791,0.805,(4.7709)+(-0.0022)Gly+(0.0034)Gln+(0.0048)Pro+(-0.0027)Val+(-0.0016)Lys+(-0.1496)Trp;0.782,0.812,0.758,0.739,0.753,0.830,0.767,0.772,(6.3590)+(-0.0304)Asn+(0.0031)Gly+(-0.1150)His+(-0.0055)Ala+(0.0084)Pro+(0.0322)Orn;0.782,0.814,0.772,0.752,0.766,0.837,0.793,0.787,(3.0662)+(0

.0065)Gly+(-0.0121)Ala+(-0.0910)Cit+(0.0110)Pro+(-0.2143)Met+(0.0707)Ile;0.782,0.819,0.726,0.708,0.733,0.796,0.713,0.737,(-1.3699)+(0.0530)Ser+(-0.0063)Gly+(0.0127)Thr+(-0.0170)Arg+(-0.3689)Met+(0.0649)Ile;0.782,0.812,0.722,0.701,0.729,0.794,0.715,0.735,(5.9506)+(0.0006)Gly+(-0.1425)His+(0.0151)Thr+(-0.0321)Tyr+(0.0280)Orn+(0.0136)Leu;0.782,0.818,0.803,0.810,0.795,0.811,0.793,0.803,(4.4417)+(0.0024)Gln+(0.0068)Thr+(-0.0065)Ala+(0.0125)Orn+(0.0110)Leu+(-0.1574)Trp;0.782,0.814,0.812,0.823,0.813,0.819,0.776,0.808,(6.2122)+(-0.0003)Gly+(-0.0023)Ala+(-0.1116)Met+(0.0257)Orn+(0.0051)Lys+(-0.1324)Trp;0.782,0.812,0.763,0.759,0.751,0.824,0.756,0.773,(7.3846)+(-0.0404)Asn+(-0.1106)His+(0.0199)Thr+(-0.0045)Ala+(0.0094)Pro+(-0.0194)Tyr;0.782,0.822,0.808,0.808,0.804,0.817,0.810,0.810,(6.4241)+(0.0014)Gly+(0.0015)Arg+(-0.0257)Val+(-0.1331)Met+(0.0592)Leu+(-0.1303)Trp;0.782,0.822,0.805,0.818,0.807,0.791,0.780,0.799,(4.9042)+(-0.0031)Gly+(0.0030)Gln+(0.0085)Thr+(0.0031)Pro+(-0.0051)Lys+(-0.1563)Trp;0.782,0.820,0.797,0.806,0.801,0.787,0.771,0.791,(4.2800)+(0.0026)Gln+(0.0024)Pro+(0.0127)Orn+(-0.0059)Lys+(0.0063)Leu+(-0.1563)Trp;0.782,0.819,0.726,0.716,0.721,0.820,0.698,0.739,(1.7268)+(0.0445)Ser+(-0.1062)Asn+(-0.0749)Cit+(-0.0347)Tyr+(-0.0153)Lys+(0.0584)Ile;0.782,0.819,0.822,0.838,0.811,0.825,0.800,0.818,(5.3187)+(-0.0032)Gly+(0.0037)Gln+(0.0124)Thr+(-0.0048)Ala+(-0.0036)Lys+(-0.1490)Trp;0.782,0.817,0.797,0.813,0.794,0.780,0.774,0.791,(4.9456)+(-0.0036)Gly+(0.0030)Gln+(0.0104)Thr+(-0.0236)Tyr+(0.0079)Leu+(-0.1585)Trp;0.782,0.824,0.734,0.711,0.747,0.803,0.719,0.745,(-0.8337)+(0.0527)Ser+(-0.0036)Gly+(-0.0673)Cit+(-0.0032)Arg+(-0.3263)Met+(0.0690)Ile;0.782,0.817,0.761,0.725,0.765,0.812,0.811,0.778,(5.8425)+(0.0309)Asn+(-0.1112)His+(-0.0379)Cit+(0.0090)Arg+(-0.1793)Met+(0.0669)Ile;0.782,0.812,0.758,0.733,0.777,0.844,0.725,0.770,(6.5243)+(0.0040)Gly+(-0.1075)His+(-0.0049)Ala+(-0.0810)Cit+(0.0588)Orn+(-0.0013)Lys;0.782,

0.811,0.755,0.753,0.673,0.836,0.873,0.784,(2.6717)+(-0.0032)Thr+(-0.0112)Ala+(0.0044)Pro+(-0.0417)Val+(0.1896)Ile+(-0.0327)Leu;0.782,0.820,0.792,0.811,0.790,0.789,0.750,0.785,(4.6217)+(0.0027)Gln+(0.0045)Pro+(-0.0199)Tyr+(0.0161)Orn+(-0.0032)Lys+(-0.1456)Trp;0.782,0.815,0.750,0.737,0.748,0.816,0.738,0.760,(6.4621)+(-0.1289)His+(0.0139)Thr+(-0.0029)Ala+(-0.0218)Tyr+(0.0015)Val+(0.0328)Orn;0.782,0.809,0.744,0.727,0.732,0.811,0.766,0.759,(6.3954)+(-0.1311)His+(0.0177)Thr+(-0.0053)Ala+(0.0072)Pro+(-0.0243)Tyr+(0.0165)Leu;0.782,0.822,0.801,0.810,0.804,0.781,0.786,0.795,(4.3626)+(-0.0022)Gly+(0.0025)Gln+(0.0024)Pro+(0.0111)Orn+(0.0029)Leu+(-0.1600)Trp;0.782,0.818,0.813,0.820,0.810,0.821,0.799,0.812,(6.5141)+(-0.0540)Asn+(0.0005)Gly+(-0.0043)Ala+(0.0238)Orn+(0.0096)Leu+(-0.1358)Trp;0.782,0.817,0.773,0.769,0.761,0.833,0.766,0.782,(5.2688)+(-0.0914)Asn+(0.0343)Thr+(0.0102)Pro+(-0.0537)Val+(-0.2838)Met+(0.0841)Leu;0.782,0.816,0.763,0.746,0.763,0.825,0.765,0.775,(6.8710)+(-0.0419)Asn+(-0.1226)His+(0.0155)Thr+(-0.0035)Ala+(0.0309)Orn+(-0.0002)Lys;0.782,0.811,0.772,0.759,0.761,0.823,0.797,0.785,(4.0955)+(0.0096)Gln+(-0.1450)His+(-0.0333)Cit+(-0.0137)Tyr+(-0.0121)Val+(0.0345)Leu;0.782,0.819,0.758,0.763,0.741,0.787,0.761,0.763,(-3.1829)+(0.0518)Ser+(-0.0058)Gly+(-0.0037)Ala+(-0.3476)Met+(0.0077)Orn+(0.1021)Phe;0.782,0.816,0.791,0.792,0.747,0.853,0.837,0.807,(4.1422)+(0.0040)Asn+(-0.0076)Ala+(-0.0123)Arg+(-0.1742)Met+(0.1822)Ile+(-0.0823)Leu;0.782,0.814,0.769,0.770,0.765,0.846,0.720,0.775,(1.4869)+(0.0381)Ser+(0.0020)Gln+(-0.0086)Ala+(-0.0844)Cit+(0.0189)Pro+(-0.2423)Met;0.782,0.818,0.818,0.825,0.822,0.830,0.783,0.815,(6.3078)+(-0.0026)Ala+(0.0170)Tyr+(-0.0007)Val+(-0.1205)Met+(0.0270)Orn+(-0.1306)Trp;0.782,0.817,0.810,0.821,0.820,0.808,0.761,0.803,(6.7980)+(-0.0363)Asn+(-0.0093)Arg+(-0.0944)Met+(0.0264)Orn+(0.0082)Lys+(-0.1330)Trp;0.782,0.814,0.726,0.719,0.666,0.809,0.809,0.751,(1.8508)+(0.0303)Ser+(-0.0078)Gly+(-

0.0541)Cit+(-0.0469)Tyr+(-0.0465)Val+(0.1495)Ile;0.782,0.819,0.764,0.750,0.771,0.834,0.737,0.773,(2.7002)+(0.0048)Gly+(0.0238)Thr+(-0.0100)Ala+(-0.0985)Cit+(-0.2791)Met+(0.0794)Ile;0.782,0.819,0.790,0.777,0.785,0.847,0.797,0.801,(1.5849)+(0.0049)Gln+(0.0225)Thr+(-0.0100)Ala+(-0.0982)Cit+(-0.2926)Met+(0.0759)Ile;0.782,0.819,0.799,0.814,0.795,0.820,0.753,0.796,(5.8318)+(0.0106)Thr+(-0.0047)Ala+(-0.0083)Tyr+(0.0209)Orn+(-0.0031)Lys+(-0.1413)Trp;0.782,0.815,0.758,0.726,0.757,0.808,0.811,0.775,(5.7736)+(0.0336)Asn+(-0.1178)His+(0.0019)Arg+(-0.0013)Tyr+(-0.1778)Met+(0.0659)Ile;0.7

82,0.815,0.797,0.795,0.781,0.848,0.799,0.806,(4.5106)+(0.0107)Gln+(-0.1337)His+(-0.0048)Ala+(-0.0310)Cit+(-0.0123)Arg+(0.0089)Pro;0.782,0.809,0.729,0.705,0.740,0.792,0.724,0.740,(4.0530)+(0.0066)Gly+(-0.1393)His+(-0.0442)Cit+(0.0022)Pro+(-0.0046)Lys+(0.0890)Phe;0.782,0.824,0.772,0.763,0.783,0.776,0.770,0.773,(5.0210)+(-0.0008)Gly+(0.0129)Thr+(-0.0224)Arg+(-0.0016)Pro+(0.0520)Ile+(-0.1718)Trp;0.782,0.820,0.823,0.835,0.821,0.806,0.805,0.817,(4.3781)+(-0.0008)Gly+(0.0058)Gln+(-0.1593)Met+(0.0025)Lys+(0.0136)Leu+(-0.1450)Trp;0.782,0.820,0.813,0.824,0.815,0.808,0.781,0.807,(4.3021)+(0.0051)Gln+(-0.1630)Met+(0.0156)Orn+(0.0009)Lys+(0.0116)Leu+(-0.1431)Trp;0.782,0.816,0.757,0.750,0.747,0.779,0.778,0.764,(5.2235)+(-0.1282)His+(-0.0284)Cit+(-0.0025)Arg+(-0.0419)Tyr+(0.0020)Lys+(0.1024)Phe;0.782,0.821,0.774,0.788,0.776,0.774,0.731,0.767,(5.1358)+(0.0070)Thr+(0.0038)Pro+(-0.0241)Tyr+(0.0129)Orn+(0.0052)Leu+(-0.1529)Trp;0.782,0.821,0.797,0.810,0.804,0.804,0.745,0.791,(6.1505)+(-0.0012)Gly+(-0.0171)Arg+(0.0056)Pro+(-0.0053)Val+(0.0261)Orn+(-0.1386)Trp;0.782,0.820,0.743,0.733,0.744,0.830,0.705,0.753,(1.4811)+(0.0427)Ser+(-0.0575)Cit+(0.0135)Pro+(-0.0361)Val+(-0.3206)Met+(0.0630)Leu;0.782,0.815,0.746,0.706,0.748,0.801,0.810,0.766,(4.9145)+(-0.1303)His+(-0.0389)Cit+(-0.0023)Pro+(-0.0080)Lys+(0.0421)Ile+(0.

0607)Phe;0.782,0.810,0.779,0.774,0.773,0.827,0.771,0.786,(4.0427)+(0.0009)Gly+(0.0101)Gln+(-0.1453)His+(-0.0386)Cit+(-0.0134)Tyr+(0.0054)Val;0.782,0.810,0.741,0.741,0.683,0.798,0.822,0.761,(1.6487)+(-0.0330)Arg+(-0.0045)Pro+(-0.0448)Val+(0.1988)Ile+(-0.0484)Leu+(0.0513)Phe;0.782,0.817,0.716,0.678,0.739,0.806,0.706,0.732,(3.4566)+(0.0062)Gly+(-0.1431)His+(-0.0699)Cit+(-0.0002)Pro+(0.0387)Orn+(0.0736)Phe;0.782,0.813,0.730,0.699,0.705,0.837,0.790,0.758,(3.5262)+(-0.1007)Cit+(-0.0425)Val+(0.0501)Orn+(-0.0190)Lys+(0.1732)Ile+(-0.0257)Leu;0.782,0.823,0.723,0.699,0.745,0.805,0.686,0.733,(-0.9160)+(0.0483)Ser+(-0.0735)Cit+(-0.0035)Arg+(0.0046)Pro+(-0.3403)Met+(0.0652)Ile;0.782,0.820,0.756,0.727,0.760,0.800,0.794,0.770,(4.8496)+(-0.0328)Asn+(-0.1341)His+(0.0260)Orn+(-0.0022)Lys+(-0.0042)Leu+(0.0730)Phe;0.782,0.815,0.765,0.764,0.766,0.841,0.714,0.771,(2.0621)+(0.0405)Ser+(-0.0085)Ala+(-0.0797)Cit+(-0.0017)Arg+(0.0192)Pro+(-0.2314)Met;0.782,0.813,0.765,0.749,0.760,0.789,0.796,0.774,(5.4482)+(-0.0367)Asn+(-0.1218)His+(-0.0061)Arg+(0.0042)Pro+(-0.0089)Val+(0.0909)Phe;0.782,0.819,0.802,0.815,0.790,0.811,0.787,0.801,(4.5875)+(0.0028)Gln+(0.0097)Thr+(-0.0058)Ala+(-0.0096)Tyr+(0.0137)Leu+(-0.1569)Trp;0.782,0.813,0.772,0.760,0.759,0.809,0.806,0.783,(5.1379)+(-0.1298)His+(-0.0037)Ala+(-0.0096)Arg+(-0.0052)Val+(0.0035)Lys+(0.0907)Phe;0.782,0.821,0.787,0.804,0.783,0.781,0.753,0.780,(4.4228)+(0.0025)Gln+(0.0040)Pro+(-0.0222)Tyr+(0.0130)Orn+(0.0045)Leu+(-0.1524)Trp;0.782,0.818,0.742,0.714,0.740,0.799,0.776,0.757,(6.2106)+(-0.0092)Asn+(-0.1255)His+(-0.0068)Arg+(-0.0321)Tyr+(0.0301)Orn+(0.0459)Ile;0.782,0.818,0.769,0.745,0.757,0.819,0.818,0.785,(5.1807)+(-0.1243)His+(-0.0075)Ala+(-0.0414)Cit+(0.0081)Pro+(0.0024)Leu+(0.0812)Phe;0.782,0.819,0.767,0.731,0.773,0.813,0.815,0.783,(6.1901)+(-0.1072)His+(-0.0384)Cit+(0.0098)Arg+(-0.1545)Met+(0.0014)Lys+(0.0629)Ile;0.782,0.817,0.749,0.740,0.742,0.775,0.769,0.756,(5.1621)+(-0.1263)Hi

s+(-0.0302)Cit+(-0.0028)Arg+(0.0054)Pro+(-0.0463)Tyr+(0.1013)Phe;0.78
2,0.816,0.738,0.687,0.757,0.820,0.776,0.760,(5.7822)+(-0.1198)His+(-0
.0707)Cit+(0.0059)Arg+(0.0447)Orn+(-0.0111)Lys+(0.0445)Ile;0.782,0.81
2,0.751,0.736,0.742,0.822,0.761,0.765,(6.2359)+(0.0019)Gly+(-0.1172)H
is+(-0.0051)Ala+(0.0091)Pro+(-0.0173)Tyr+(0.0340)Orn;0.782,0.810,0.75
6,0.721,0.765,0.831,0.773,0.772,(7.0662)+(-0.0510)Asn+(-0.1007)His+(-
0.0592)Cit+(-0.0278)Val+(0.0561)Orn+(0.0477)Leu;0.782,0.808,0.733,0.7
01,0.739,0.809,0.750,0.750,(5.4839)+(-0.0294)Asn+(0.0065)Gly+(-0.1209
)His+(-0.0446)Cit+(-0.0010)Pro+(0.0538)Ile;0.782,0.822,0.802,0.811,0.
817,0.801,0.746,0.794,(7.1136)+(-0.0720)Asn+(-0.0008)Gly+(0.0211)Thr+
(-0.0131)Arg+(0.0082)Leu+(-0.1498)Trp;0.782,0.817,0.719,0.683,0.741,0
.807,0.703,0.734,(3.4848)+(0.0061)Gly+(-0.1412)His+(-0.0708)Cit+(0.04
00)Orn+(-0.0047)Leu+(0.0787)Phe;0.782,0.814,0.750,0.711,0.754,0.796,0
.814,0.769,(4.9362)+(-0.0241)Asn+(-0.1307)His+(-0.0359)Cit+(-0.0024)P
ro+(0.0365)Ile+(0.0574)Phe;0.782,0.821,0.771,0.810,0.733,0.789,0.737,
0.767,(-0.1659)+(0.0445)Ser+(-0.1903)Asn+(0.0024)Gln+(-0.0521)Tyr+(-0
.0176)Val+(0.1225)Phe;0.782,0.811,0.799,0.777,0.796,0.833,0.837,0.811
,(2.3647)+(-0.0092)Ala+(-0.0743)Cit+(-0.2206)Met+(-0.0101)Lys+(0.0654
)Ile+(0.0748)Phe;0.782,0.817,0.727,0.691,0.703,0.837,0.793,0.756,(3.4
921)+(0.0037)Thr+(-0.1009)Cit+(-0.0503)Val+(0.0512)Orn+(-0.0229)Lys+(
0.1563)Ile;0.782,0.818,0.802,0.804,0.814,0.795,0.777,0.797,(6.0037)+(
0.0012)Gly+(0.0073)Pro+(0.0139)Tyr+(-0.1654)Met+(0.0120)Leu+(-0.1397)
Trp;0.782,0.814,0.721,0.700,0.726,0.791,0.717,0.733,(5.9479)+(-0.1403
)His+(0.0149)Thr+(0.0029)Pro+(-0.0352)Tyr+(0.0275)Orn+(0.0120)Leu;0.7
82,0.821,0.759,0.750,0.765,0.843,0.707,0.766,(4.6713)+(0.0401)Ser+(-0
.1118)His+(-0.0197)Cit+(-0.0085)Arg+(-0.1104)Met+(0.0077)Lys;0.782,0.
820,0.721,0.736,0.731,0.757,0.635,0.715,(-3.7372)+(0.0431)Ser+(-0.000
6)Gln+(0.0127)Thr+(-0.4217)Met+(-0.0042)Leu+(0.1143)Phe;0.782,0.820,0

.738,0.748,0.756,0.773,0.647,0.731,(-2.6177)+(0.0490)Ser+(-0.0775)Cit+(-0.0055)Arg+(-0.0174)Tyr+(-0.3344)Met+(0.1262)Phe;0.782,0.819,0.818,0.829,0.820,0.824,0.781,0.814,(7.0170)+(-0.0473)Asn+(-0.0033)Ala+(-0.0083)Arg+(0.0011)Tyr+(0.0302)Orn+(-0.1281)Trp;0.782,0.818,0.817,0.828,0.818,0.820,0.779,0.812,(6.8974)+(-0.0530)Asn+(-0.0035)Ala+(-0.0110)Arg+(0.0278)Orn+(0.0059)Lys+(-0.1328)Trp;0.782,0.814,0.740,0.712,0.772,0.827,0.684,0.749,(6.4709)+(-0.0546)Asn+(0.0042)Gly+(-0.1166)His+(0.0134)Thr+(-0.0721)Cit+(0.0480)Orn;0.782,0.829,0.729,0.732,0.756,0.776,0.631,0.724,(-2.6762)+(0.0458)Ser+(-0.1033)Cit+(-0.0259)Tyr+(-0.3361)Met+(0.0312)Orn+(0.1192)Phe;0.782,0.820,0.805,0.818,0.790,0.811,0.798,0.804,(6.1035)+(-0.0007)Gly+(-0.0063)Ala+(0.0110)Pro+(-0.0065)Tyr+(0.0026)Lys+(-0.1381)Trp;0.782,0.818,0.734,0.685,0.747,0.808,0.787,0.757,(4.3675)+(-0.1386)His+(-0.0594)Cit+(-0.0040)Pro+(0.0348)Orn+(0.0321)Ile+(0.0477)Phe;0.782,0.815,0.748,0.751,0.718,0.806,0.756,0.758,(0.5129)+(0.0525)Ser+(-0.2114)Asn+(-0.0144)Arg+(-0.0474)Val+(0.0574)Leu+(0.0955)Phe;0.782,0.818,0.734,0.726,0.659,0.846,0.832,0.766,(0.2752)+(0.0263)Ser+(-0.0029)Gln+(-0.0125)Ala+(0.0003)Orn+(0.1710)Ile+(-0.0836)Leu;0.782,0.813,0.729,0.702,0.751,0.810,0.698,0.740,(6.3454)+(-0.1290)His+(0.0157)Thr+(-0.0635)Cit+(-0.0355)Tyr+(0.0470)Orn+(0.0118)Leu;0.782,0.812,0.741,0.708,0.745,0.811,0.768,0.758,(6.1941)+(-0.1232)His+(-0.0107)Arg+(0.0037)Pro+(-0.0255)Val+(0.0371)Orn+(0.0440)Leu;0.782,0.822,0.810,0.812,0.806,0.809,0.813,0.810,(6.4828)+(-0.0027)Arg+(-0.0261)Val+(-0.1438)Met+(0.0080)Lys+(0.0560)Leu+(-0.1344)Trp;0.782,0.821,0.817,0.829,0.814,0.819,0.792,0.813,(6.7648)+(-0.0602)Asn+(-0.0035)Ala+(-0.0017)Tyr+(0.0257)Orn+(0.0039)Lys+(-0.1319)Trp;0.782,0.817,0.806,0.807,0.790,0.816,0.830,0.811,(6.0071)+(0.0002)Gly+(-0.0044)Ala+(-0.0226)Val+(-0.0002)Lys+(0.0517)Leu+(-0.1439)Trp;0.782,0.812,0.757,0.731,0.776,0.841,0.726,0.768,(6.3391)+(0.0044)Gly+(-0.1118)His+(-0.00

54)Ala+(-0.0813)Cit+(0.0024)Val+(0.0565)Orn;0.782,0.824,0.836,0.850,0.839,0.832,0.797,0.830,(4.4990)+(0.0064)Gln+(-0.0135)Arg+(0.0224)Tyr+(-0.1733)Met+(0.0082)Lys+(-0.1453)Trp;0.782,0.820,0.782,0.795,0.783,0.768,0.755,0.775,(5.7984)+(-0.0029)Gly+(0.0117)Thr+(0.0045)Pro+(-0.0252)Tyr+(0.0070)Leu+(-0.1552)Trp;0.782,0.822,0.727,0.729,0.721,0.748,0.720,0.730,(-3.7812)+(0.0564)Ser+(-0.0064)Gly+(0.0109)Pro+(-0.4078)Met+(-0.0094)Leu+(0.1108)Phe;0.782,0.819,0.743,0.709,0.747,0.794,0.785,0.759,(4.4792)+(-0.1421)His+(0.0007)Pro+(0.0251)Orn+(-0.0048)Lys+(-0.0024)Leu+(0.0700)Phe;0.782,0.822,0.776,0.795,0.789,0.787,0.692,0.766,(5.9617)+(0.0130)Thr+(-0.0220)Arg+(0.0050)Pro+(-0.0205)Tyr+(0.0193)Orn+(-0.1475)Trp;0.782,0.817,0.755,0.768,0.744,0.797,0.714,0.756,(-3.0574)+(0.0450)Ser+(0.0004)Gln+(-0.0034)Ala+(-0.3275)Met+(-0.0085)Lys+(0.1131)Phe;0.782,0.815,0.760,0.761,0.788,0.835,0.644,0.757,(2.6265)+(0.0406)Ser+(-0.0967)Asn+(-0.0987)Cit+(-0.0127)Tyr+(-0.1495)Met+(0.0476)Orn;0.782,0.814,0.755,0.730,0.785,0.831,0.702,0.762,(6.6508)+(-0.0154)Asn+(0.0046)Gly+(-0.1055)His+(-0.0724)Cit+(-0.0686)Met+(0.0549)Orn;0.782,0.810,0.716,0.710,0.663,0.810,0.773,0.739,(1.4190)+(0.0222)Ser+(-0.0043)Thr+(-0.0646)Cit+(-0.0405)Tyr+(-0.0454)Val+(0.1483)Ile;0.782,0.810,0.752,0.732,0.746,0.827,0.768,0.768,(5.9683)+(0.0023)Gly+(-0.1214)His+(-0.0056)Ala+(0.0082)Pro+(-0.0008)Val+(0.0314)Orn;0.782,0.809,0.751,0.730,0.743,0.825,0.767,0.766,(5.8717)+(0.0024)Gly+(-0.1236)His+(-0.0057)Ala+(0.0081)Pro+(0.0303)Orn+(0.0012)Lys;0.782,0.824,0.841,0.857,0.841,0.835,0.807,0.835,(4.7709)+(-0.0006)Gly+(0.0068)Gln+(-0.0091)Arg+(0.0217)Tyr+(-0.1538)Met+(-0.1386)Trp;0.782,0.824,0.768,0.761,0.780,0.775,0.759,0.769,(4.8309)+(0.0116)Thr+(-0.0234)Arg+(-0.0019)Pro+(0.0056)Orn+(0.0509)Ile+(-0.1712)Trp;0.782,0.823,0.724,0.739,0.733,0.764,0.640,0.719,(-3.5836)+(0.0502)Ser+(-0.0204)Arg+(0.0114)Pro+(-0.3895)Met+(-0.0103)Leu+(0.1199)Phe;0.782,0.822,0.842,0.861,0.835,0.83

6,0.807,0.835,(5.4293)+(-0.0764)Asn+(0.0072)Gln+(-0.0093)Arg+(0.0004)Tyr+(-0.0012)Val+(-0.1347)Trp;0.782,0.821,0.799,0.807,0.804,0.777,0.782,0.792,(4.4898)+(-0.0027)Gly+(0.0025)Gln+(0.0058)Thr+(0.0024)Pro+(0.0044)Leu+(-0.1644)Trp;0.782,0.811,0.732,0.705,0.731,0.805,0.750,0.748,(5.6381)+(0.0053)Gly+(-0.1189)His+(-0.0434)Cit+(-0.0204)Tyr+(-0.0025)Lys+(0.0584)Ile;0.782,0.821,0.724,0.730,0.741,0.776,0.634,0.720,(-3.3473)+(0.0437)Ser+(-0.0002)Gln+(0.0160)Thr+(-0.4007)Met+(-0.0120)Lys+(0.1171)Phe;0.782,0.821,0.798,0.813,0.803,0.800,0.748,0.791,(4.6861)+(0.0022)Gln+(0.0058)Thr+(-0.0030)Val+(0.0162)Orn+(-0.0047)Lys+(-0.1490)Trp;0.782,0.816,0.756,0.731,0.756,0.834,0.770,0.772,(6.1969)+(-0.0249)Asn+(0.0034)Gly+(-0.1271)His+(-0.0043)Ala+(0.0315)Orn+(0.0136)Leu;0.781,0.819,0.752,0.721,0.758,0.796,0.793,0.767,(4.8453)+(-0.0304)Asn+(-0.1357)His+(0.0006)Pro+(0.0251)Orn+(-0.0032)Lys+(0.0683)Phe;0.781,0.817,0.763,0.782,0.750,0.814,0.702,0.762,(0.3634)+(0.0464)Ser+(-0.1869)Asn+(-0.0222)Arg+(-0.0231)Val+(0.0298)Orn+(0.0999)Phe;0.781,0.821,0.745,0.725,0.708,0.839,0.807,0.770,(1.2352)+(0.0471)Ser+(-0.1253)Asn+(-0.0058)Gly+(-0.0103)Lys+(0.1409)Ile+(-0.0719)Leu;0.781,0.819,0.806,0.821,0.815,0.798,0.750,0.7

96,(5.1328)+(-0.0030)Gly+(0.0039)Gln+(0.0127)Thr+(-0.0239)Arg+(0.0038)Pro+(-0.1600)Trp;0.781,0.818,0.718,0.721,0.652,0.782,0.804,0.740,(1.8011)+(0.0116)Thr+(-0.0631)Tyr+(-0.0516)Val+(-0.0182)Lys+(0.1545)Ile+(0.0673)Phe;0.781,0.816,0.808,0.820,0.814,0.811,0.762,0.802,(6.1966)+(-0.0005)Gly+(-0.0026)Val+(-0.1253)Met+(0.0258)Orn+(0.0059)Lys+(-0.1322)Trp;0.781,0.815,0.757,0.732,0.764,0.798,0.780,0.768,(4.9955)+(-0.0285)Asn+(-0.1325)His+(-0.0089)Arg+(0.0274)Orn+(-0.0061)Leu+(0.0743)Phe;0.781,0.813,0.755,0.739,0.750,0.812,0.764,0.766,(7.1079)+(-0.0369)Asn+(-0.1295)His+(0.0229)Thr+(-0.0034)Ala+(-0.0202)Tyr+(0.0189)Leu;0.781,0.812,0.734,0.716,0.738,0.787,0.738,0.745,(4.1102)+(0.0056)Gly+(-0

.1457)His+(-0.0116)Arg+(0.0002)Lys+(-0.0010)Leu+(0.0849)Phe;0.781,0.824,0.811,0.822,0.803,0.806,0.798,0.807,(4.8672)+(0.0042)Gln+(-0.0152)Arg+(-0.0046)Tyr+(-0.0216)Val+(0.0439)Leu+(-0.1514)Trp;0.781,0.812,0.822,0.837,0.823,0.810,0.791,0.815,(7.1286)+(-0.0376)Asn+(-0.0012)Ala+(-0.0002)Val+(-0.0787)Met+(0.0103)Lys+(-0.1327)Trp;0.781,0.810,0.730,0.710,0.735,0.785,0.736,0.741,(4.0566)+(0.0056)Gly+(-0.1453)His+(-0.0122)Arg+(0.0023)Pro+(-0.0020)Leu+(0.0838)Phe;0.781,0.809,0.734,0.716,0.734,0.801,0.733,0.746,(6.8722)+(-0.1322)His+(0.0246)Thr+(-0.0139)Arg+(-0.0206)Tyr+(-0.0212)Val+(0.0475)Leu;0.781,0.823,0.793,0.801,0.798,0.786,0.764,0.787,(4.4122)+(0.0025)Gln+(0.0072)Thr+(0.0022)Pro+(-0.0069)Lys+(0.0086)Leu+(-0.1609)Trp;0.781,0.807,0.730,0.724,0.675,0.798,0.814,0.753,(1.7427)+(-0.0008)Gly+(0.0077)Thr+(-0.0382)Arg+(-0.0615)Val+(0.1630)Ile+(0.0378)Phe;0.781,0.811,0.755,0.750,0.676,0.842,0.872,0.785,(2.4464)+(-0.0049)Thr+(-0.0103)Ala+(-0.0424)Val+(0.0155)Orn+(0.1906)Ile+(-0.0331)Leu;0.781,0.815,0.728,0.692,0.704,0.835,0.798,0.757,(3.6609)+(-0.0004)Gln+(-0.0989)Cit+(-0.0502)Val+(0.0526)Orn+(-0.0210)Lys+(0.1557)Ile;0.781,0.818,0.780,0.782,0.748,0.834,0.801,0.791,(1.8541)+(-0.0436)Asn+(0.0047)Gln+(0.0107)Thr+(-0.2671)Met+(0.1601)Ile+(-0.0783)Leu;0.781,0.814,0.758,0.728,0.755,0.808,0.808,0.775,(5.7565)+(0.0321)Asn+(-0.1196)His+(-0.0027)Tyr+(-0.1799)Met+(0.0033)Lys+(0.0643)Ile;0.781,0.813,0.731,0.693,0.739,0.805,0.760,0.749,(5.7365)+(-0.1367)His+(0.0166)Thr+(-0.0321)Cit+(-0.0083)Arg+(-0.0030)Pro+(0.0493)Ile;0.781,0.812,0.756,0.735,0.757,0.824,0.761,0.769,(6.3395)+(-0.1302)His+(0.0124)Thr+(-0.0037)Ala+(0.0006)Val+(0.0307)Orn+(-0.0022)Lys;0.781,0.819,0.786,0.803,0.790,0.798,0.725,0.779,(5.6321)+(0.0091)Thr+(-0.0163)Tyr+(-0.0027)Val+(0.0202)Orn+(-0.0031)Lys+(-0.1419)Trp;0.781,0.818,0.808,0.813,0.828,0.819,0.746,0.802,(6.8557)+(0.0021)Gly+(-0.0693)Cit+(0.0005)Arg+(0.0066)Tyr+(0.0021)Lys+(-0.1489)Trp;0.781,0.815,0.772,

0.757,0.736,0.868,0.822,0.796,(3.2524)+(-0.0142)Ala+(-0.1189)Cit+(0.0044)Pro+(0.0385)Orn+(0.1661)Ile+(-0.0829)Leu;0.781,0.819,0.813,0.812,0.806,0.857,0.795,0.818,(4.3569)+(0.0123)Gln+(-0.1324)His+(-0.0265)Cit+(-0.0094)Arg+(0.0115)Tyr+(-0.1003)Met;0.781,0.809,0.778,0.781,0.766,0.825,0.764,0.784,(4.1359)+(0.0110)Gln+(-0.1463)His+(-0.0214)Arg+(0.0060)Pro+(-0.0185)Tyr+(0.0053)Lys;0.781,0.805,0.726,0.733,0.669,0.801,0.774,0.744,(3.7522)+(-0.0000)Gln+(0.0140)Thr+(-0.0335)Arg+(-0.0425)Tyr+(-0.0550)Val+(0.1670)Ile;0.781,0.821,0.757,0.771,0.753,0.798,0.696,0.755,(-3.0184)+(0.0457)Ser+(-0.0041)Ala+(-0.0190)Arg+(-0.3278)Met+(0.0114)Orn+(0.1094)Phe;0.781,0.819,0.784,0.778,0.734,0.864,0.848,0.806,(3.8234)+(-0.0132)Ala+(-0.0837)Cit+(-0.0062)Arg+(0.0057)Pro+(0.1743)Ile+(-0.0826)Leu;0.781,0.818,0.796,0.804,0.801,0.815,0.747,0.792,(5.9260)+(0.0147)Thr+(-0.0058)Ala+(-0.0205)Arg+(0.0197)Orn+(0.0107)Leu+(-0.1535)Trp;0.781,0.818,0.815,0.822,0.827,0.818,0.770,0.809,(6.8543)+(-0.0305)Asn+(-0.0062)Arg+(0.0122)Tyr+(-0.0994)Met+(0.0282)Orn+(-0.1293)Trp;0.781,0.817,0.738,0.710,0.738,0.796,0.772,0.754,(6.0923)+(-0.1277)His+(-0.0078)Arg+(-0.0001)Pro+(-0.0325)Tyr+(0.0298)Orn+(0.0463)Ile;0.781,0.809,0.731,0.730,0.677,0.796,0.800,0.751,(1.5356)+(0.0053)Thr+(-0.0382)Arg+(-0.0474)Val+(0.1925)Ile+(-0.0440)Leu+(0.0479)Phe;0.781,0.819,0.809,0.822,0.798,0.819,0.789,0.807,(6.5686)+(-0.0000)Gly+(-0.0060)Ala+(-0.0094)Arg+(0.0115)Pro+(-0.0013)Tyr+(-0.1339)Trp;0.781,0.813,0.753,0.733,0.756,0.825,0.749,0.766,(6.5885)+(-0.1255)His+(0.0145)Thr+(-0.0055)Ala+(-0.0160)Arg+(0.0069)Pro+(0.0300)Orn;0.781,0.814,0.716,0.711,0.682,0.811,0.734,0.735,(-2.7211)+(0.0424)Ser+(-0.0184)Thr+(-0.0401)Arg+(0.1845)Ile+(-0.1131)Leu+(0.0624)Phe;0.781,0.805,0.731,0.741,0.676,0.801,0.766,0.746,(3.9794)+(0.0126)Thr+(-0.0333)Arg+(-0.0426)Tyr+(-0.0431)Val+(0.1931)Ile+(-0.0367)Leu;0.781,0.817,0.770,0.749,0.759,0.818,0.813,0.785,(5.2544)+(-0.1231)His+(-0.0073)Ala+(-0.0391)

Cit+(-0.0028)Arg+(0.0084)Pro+(0.0844)Phe;0.781,0.815,0.806,0.796,0.792,0.831,0.845,0.816,(-0.9154)+(0.0070)Gln+(-0.0098)Ala+(-0.0920)Cit+(-0.2961)Met+(0.0629)Ile+(0.0763)Phe;0.781,0.812,0.799,0.804,0.733,0.868,0.875,0.820,(2.6745)+(-0.0963)Asn+(0.0009)Gly+(0.0039)Gln+(-0.0098)Ala+(0.1636)Ile+(-0.0829)Leu;0.781,0.811,0.704,0.692,0.657,0.808,0.761,0.730,(2.2324)+(0.0250)Ser+(-0.0032)Gln+(-0.0603)Cit+(-0.0390)Tyr+(-0.0469)Val+(0.1530)Ile;0.781,0.824,0.725,0.700,0.753,0.812,0.672,0.734,(-0.8429)+(0.0456)Ser+(-0.0888)Cit+(-0.0043)Arg+(-0.3282)Met+(0.0215)Orn+(0.0633)Ile;0.781,0.822,0.763,0.748,0.774,0.853,0.713,0.772,(4.6076)+(0.0423)Ser+(-0.1110)His+(-0.0241)Cit+(-0.0044)Arg+(0.0209)Tyr+(-0.1243)Met;0.781,0.818,0.803,0.817,0.802,0.788,0.778,0.796,(6.6952)+(-0.0652)Asn+(0.0006)Gly+(0.0066)Pro+(-0.0094)Tyr+(0.0060)Lys+(-0.1378)Trp;0.781,0.814,0.732,0.717,0.738,0.797,0.712,0.741,(6.1910)+(-0.1297)His+(0.0133)Thr+(0.0046)Pro+(-0.0306)Tyr+(0.0313)Orn+(-0.0011)Lys;0.781,0.814,0.813,0.824,0.813,0.821,0.775,0.808,(6.4541)+(-0.0004)Gly+(-0.0022)Ala+(-0.0005)Val+(-0.0972)Met+(0.0290)Orn+(-0.1270)Trp;0.781,0.819,0.753,0.759,0.752,0.781,0.719,0.753,(-2.7730)+(0.0573)Ser+(-0.0061)Gly+(-0.0136)Arg+(-0.3362)Met+(-0.0074)Lys+(0.1117)Phe;0.781,0.815,0.806,0.810,0.798,0.847,0.786,0.810,(4.1875)+(0.0122)Gln+(-0.1351)His+(-0.0217)Cit+(-0.0146)Arg+(-0.1042)Met+(0.0084)Lys;0.781,0.810,0.780,0.775,0.777,0.833,0.763,0.787,(4.0831)+(0.0011)Gly+(0.0109)Gln+(-0.1445)His+(-0.0260)Cit+(-0.0152)Arg+(0.0048)Pro;0.781,0.810,0.791,0.804,0.767,0.782,0.813,0.791,(-0.1348)+(0.0046)Gln+(0.0095)Pro+(-0.0417)Val+(-0.3882)Met+(0.0539)Leu+(0.1071)Phe;0.781,0.817,0.808,0.815,0.817,0.804,0.771,0.802,(6.5226)+(0.0011)Gly+(-0.0039)Arg+(0.0089)Pro+(0.0153)Tyr+(-0.1447)Met+(-0.1318)Trp;0.781,0.815,0.758,0.754,0.791,0.834,0.647,0.756,(2.1100)+(0.0424)Ser+(-0.0920)Asn+(-0.0976)Cit+(-0.1846)Met+(0.0436)Orn+(0.0031)Leu;0.781,0.814,0.765,0.777,0.772,0.85

0,0.655,0.764,(4.1255)+(0.0350)Ser+(-0.1414)Asn+(-0.1005)Cit+(-0.0287)Tyr+(-0.0103)Val+(0.0599)Orn;0.781,0.819,0.803,0.807,0.813,0.786,0.785,0.798,(5.9472)+(0.0077)Pro+(0.0122)Tyr+(-0.1756)Met+(0.0062)Lys+(0.0089)Leu+(-0.1436)Trp;0.781,0.814,0.750,0.722,0.749,0.826,0.773,0.768,(5.8978)+(0.0029)Gly+(-0.1323)His+(-0.0045)Ala+(0.0307)Orn+(-0.0014)Lys+(0.0144)Leu;0.781,0.810,0.734,0.726,0.685,0.819,0.794,0.756,(4.2439)+(0.0124)Thr+(-0.0664)Cit+(-0.0402)Tyr+(-0.0467)Val+(-0.0148)Lys+(0.1605)Ile;0.781,0.818,0.799,0.815,0.794,0.817,0.756,0.796,(5.7115)+(0.0092)Thr+(-0.0046)Ala+(-0.0089)Tyr+(-0.0012)Val+(0.0207)Orn+(-0.1420)Trp;0.781,0.817,0.817,0.825,0.820,0.824,0.785,0.813,(6.0667)+(-0.0027)Ala+(0.0171)Tyr+(-0.1351)Met+(0.0236)Orn+(0.0051)Lys+(-0.1363)Trp;0.781,0.811,0.783,0.777,0.777,0.831,0.775,0.790,(4.0616)+(0.0111)Gln+(-0.1468)His+(-0.0235)Cit+(-0.0166)Arg+(0.0045)Pro+(0.0020)Lys;0.781,0.818,0.804,0.817,0.809,0.803,0.762,0.798,(6.7419)+(0.0007)Gly+(-0.0032)Arg+(0.0099)Pro+(-0.0007)Val+(-0.1221)Met+(-0.1273)Trp;0.781,0.814,0.730,0.699,0.704,0.833,0.791,0.757,(3.7021)+(-0.0872)Cit+(-0.0116)Arg+(-0.0518)Val+(0.0517)Orn+(-0.0175)Lys+(0.1582)Ile;0.781,0.820,0.793,0.808,0.803,0.790,0.733,0.784,(4.6425)+(0.0034)Gln+(0.0109)Thr+(-0.0239)Arg+(0.0034)Pro+(0.0054)Leu+(-0.1632)Trp;0.781,0.815,0.730,0.703,0.687,0.814,0.830,0.758,(2.2098)+(0.0077)Thr+(-0.0722)Cit+(-0.0519)Val+(-0.0222)Lys+(0.1587)Ile+(0.0478)Phe;0.781,0.815,0.777,0.766,0.734,0.872,0.824,0.799,(2.4967)+(0.0019)Gln+(-0.0134)Ala+(-0.1203)Cit+(0.0367)Orn+(0.1729)Ile+(-0.0850)Leu;0.781,0.814,0.751,0.727,0.771,0.841,0.710,0.762,(6.2808)+(0.0033)Gly+(-0.1157)His+(0.0100)Thr+(-0.0053)Ala+(-0.0796)Cit+(0.0533)Orn;0.781,0.819,0.828,0.841,0.824,0.826,0.806,0.824,(4.5397)+(0.0063)Gln+(-0.0025)Ala+(-0.0071)Arg+(-0.1287)Met+(0.0168)Leu+(-0.1408)Trp;0.781,0.817,0.803,0.812,0.807,0.787,0.784,0.798,(6.4334)+(-0.0664)Asn+(0.0008)Gly+(0.0052)Pro+(0.0042)Lys+(0.0045)

Leu+(-0.1434)Trp;0.781,0.813,0.828,0.841,0.801,0.814,0.857,0.828,(0.6370)+(-0.0942)Asn+(0.0078)Gln+(-0.0455)Val+(-0.2886)Met+(0.0630)Leu+(0.1086)Phe;0.781,0.813,0.763,0.746,0.770,0.832,0.747,0.774,(7.2100)+(-0.0341)Asn+(-0.1220)His+(0.0185)Thr+(-0.0034)Ala+(-0.0140)Arg+(0.0331)Orn;0.781,0.810,0.789,0.793,0.778,0.831,0.772,0.794,(4.2344)+(0.0001)Gly+(0.0112)Gln+(-0.1472)His+(-0.0207)Arg+(-0.0101)Tyr+(0.0054)Lys;0.781,0.809,0.774,0.768,0.766,0.820,0.773,0.782,(4.0926)+(0.0100)Gln+(-0.1424)His+(-0.0373)Cit+(0.0050)Pro+(-0.0197)Tyr+(0.0038)Val;0.781,0.812,0.796,0.795,0.781,0.847,0.792,0.804,(4.4781)+(0.0008)Gly+(0.0098)Gln+(-0.1350)His+(-0.0027)Ala+(-0.0368)Cit+(0.0004)Lys;0.781,0.809,0.784,0.783,0.776,0.833,0.769,0.790,(4.3462)+(0.0111)Gln+(-0.1384)His+(-0.0250)Cit+(-0.0144)Arg+(0.0062)Pro+(-0.0148)Tyr;0.781,0.815,0.758,0.766,0.726,0.824,0.752,0.767,(4.4656)+(-0.0690)Asn+(0.0040)Gly+(-0.0753)Cit+(-0.0366)Tyr+(0.1594)Ile+(-0.0797)Leu;0.781,0.811,0.725,0.690,0.741,0.804,0.730,0.741,(5.6393)+(0.0018)Gly+(-0.1456)His+(0.0130)Thr+(0.0244)Orn+(-0.0065)Lys+(0.0130)Leu;0.781,0.814,0.740,0.719,0.760,0.817,0.695,0.748,(6.6348)+(-0.1195)His+(0.0141)Thr+(-0.0667)Cit+(-0.0298)Tyr+(-0.0000)Val+(0.0517)Orn;0.781,0.813,0.758,0.735,0.776,0.840,0.723,0.769,(6.6295)+(0.0037)Gly+(-0.1066)His+(-0.0045)Ala+(-0.0795)Cit+(-0.0091)Tyr+(0.0594)Orn;0.781,0.811,0.762,0.735,0.780,0.846,0.735,0.774,(6.9495)+(-0.1110)His+(0.0134)Thr+(-0.0050)Ala+(-0.0771)Cit+(0.0548)Orn+(-0.0053)Lys;0.781,0.809,0.727,0.733,0.651,0.769,0.839,0.748,(2.4135)+(-0.0030)Gly+(-0.0018)Gln+(-0.0645)Tyr+(-0.0539)Val+(0.1525)Ile+(0.0617)Phe;0.781,0.824,0.762,0.787,0.742,0.796,0.712,0.759,(-2.6937)+(0.0421)Ser+(-0.0016)Ala+(-0.0111)Tyr+(-0.0117)Val+(-0.3254)Met+(0.1315)Phe;0.781,0.823,0.838,0.853,0.838,0.834,0.801,0.832,(4.6561)+(0.0066)Gln+(-0.0092)Arg+
(0.0217)Tyr+(0.0011)Val+(-0.1569)Met+(-0.1400)Trp;0.781,0.821,0.842,0

.861,0.836,0.829,0.811,0.834,(5.4242)+(-0.0745)Asn+(-0.0007)Gly+(0.0073)Gln+(-0.0094)Arg+(-0.0012)Tyr+(-0.1365)Trp;0.781,0.818,0.790,0.784,0.740,0.872,0.852,0.812,(4.1234)+(-0.0117)Ala+(-0.0851)Cit+(-0.0012)Arg+(-0.0055)Lys+(0.1781)Ile+(-0.0798)Leu;0.781,0.812,0.729,0.689,0.744,0.816,0.739,0.747,(5.8255)+(-0.1297)His+(0.0128)Thr+(-0.0579)Cit+(-0.0238)Val+(0.0452)Orn+(0.0434)Leu;0.781,0.820,0.761,0.781,0.754,0.796,0.700,0.758,(-3.2599)+(0.0456)Ser+(0.0010)Gln+(-0.0037)Ala+(-0.0178)Arg+(-0.3324)Met+(0.1126)Phe;0.781,0.818,0.745,0.743,0.726,0.801,0.752,0.756,(0.6419)+(0.0524)Ser+(-0.2176)Asn+(-0.0528)Cit+(-0.0432)Val+(0.0528)Leu+(0.0985)Phe;0.781,0.807,0.726,0.706,0.729,0.784,0.729,0.737,(6.3722)+(-0.1371)His+(0.0192)Thr+(0.0035)Pro+(-0.0293)Tyr+(-0.0030)Lys+(0.0163)Leu;0.781,0.821,0.757,0.778,0.746,0.797,0.699,0.755,(-2.9039)+(0.0435)Ser+(0.0003)Gln+(-0.0118)Val+(-0.3447)Met+(-0.0039)Lys+(0.1294)Phe;0.781,0.818,0.752,0.788,0.727,0.773,0.692,0.745,(0.6242)+(0.0429)Ser+(-0.1983)Asn+(0.0125)Thr+(-0.0581)Tyr+(-0.0192)Val+(0.1289)Phe;0.781,0.818,0.770,0.749,0.757,0.820,0.816,0.786,(5.2591)+(-0.1223)His+(-0.0072)Ala+(-0.0413)Cit+(0.0084)Pro+(-0.0016)Lys+(0.0851)Phe;0.781,0.815,0.735,0.700,0.708,0.840,0.804,0.763,(3.6627)+(-0.0997)Cit+(-0.0055)Pro+(-0.0500)Val+(0.0550)Orn+(-0.0210)Lys+(0.1615)Ile;0.781,0.815,0.757,0.724,0.757,0.805,0.807,0.773,(5.7914)+(0.0342)Asn+(-0.1164)His+(0.0021)Pro+(-0.0028)Tyr+(-0.1792)Met+(0.0636)Ile;0.781,0.809,0.760,0.750,0.752,0.827,0.756,0.771,(6.9236)+(-0.0446)Asn+(0.0023)Gly+(-0.1156)His+(0.0166)Thr+(-0.0051)Ala+(0.0086)Pro;0.781,0.821,0.806,0.821,0.818,0.799,0.746,0.796,(5.1104)+(-0.0032)Gly+(0.0036)Gln+(0.0118)Thr+(-0.0252)Arg+(0.0163)Orn+(-0.1590)Trp;0.781,0.820,0.792,0.816,0.799,0.803,0.708,0.781,(5.0035)+(0.0033)Gln+(0.0117)Thr+(-0.0241)Arg+(-0.0169)Tyr+(0.0187)Orn+(-0.1506)Trp;0.781,0.815,0.770,0.752,0.767,0.846,0.766,0.783,(4.0808)+(-0.0195)Asn+(-0.0909)Cit+(-0.1921)Met

+(0.0367)Orn+(0.1600)Ile+(-0.0815)Leu;0.781,0.815,0.790,0.773,0.802,0.809,0.796,0.795,(-0.9634)+(0.0078)Gln+(-0.0832)Cit+(-0.3342)Met+(-0.0154)Lys+(0.0542)Ile+(0.0836)Phe;0.781,0.816,0.818,0.836,0.803,0.820,0.798,0.814,(5.3041)+(-0.0034)Gly+(0.0036)Gln+(0.0120)Thr+(-0.0044)Ala+(-0.0106)Tyr+(-0.1484)Trp;0.781,0.808,0.728,0.695,0.734,0.807,0.750,0.746,(5.3252)+(0.0058)Gly+(-0.1235)His+(-0.0454)Cit+(-0.0013)Pro+(-0.0049)Lys+(0.0572)Ile;0.781,0.814,0.749,0.743,0.664,0.839,0.876,0.780,(2.3229)+(-0.0047)Thr+(-0.0116)Ala+(0.0044)Pro+(-0.0533)Val+(0.0152)Orn+(0.1653)Ile;0.781,0.813,0.733,0.706,0.749,0.785,0.734,0.743,(4.8178)+(-0.1489)His+(0.0196)Thr+(-0.0276)Cit+(-0.0141)Arg+(-0.0021)Leu+(0.0802)Phe;0.781,0.807,0.732,0.705,0.735,0.806,0.742,0.747,(6.4923)+(-0.1343)His+(0.0210)Thr+(-0.0153)Arg+(0.0034)Pro+(-0.0242)Val+(0.0473)Leu;0.781,0.817,0.792,0.807,0.798,0.788,0.743,0.784,(6.1083)+(-0.0033)Gly+(0.0122)Thr+(-0.0208)Tyr+(0.0195)Orn+(-0.0043)Lys+(-0.1452)Trp;0.781,0.815,0.699,0.679,0.643,0.816,0.788,0.731,(0.4232)+(0.0260)Ser+(-0.0454)Val+(0.0120)Orn+(-0.0225)Lys+(0.1734)Ile+(-0.0216)Leu;0.781,0.811,0.738,0.733,0.684,0.799,0.820,0.759,(1.9654)+(-0.0304)Arg+(-0.0457)Val+(-0.0066)Lys+(0.1903)Ile+(-0.0412)Leu+(0.0509)Phe;0.781,0.807,0.737,0.742,0.681,0.813,0.786,0.755,(3.6336)+(0.0039)Thr+(-0.0665)Cit+(-0.0450)Tyr+(-0.0358)Val+(0.1826)Ile+(-0.0392)Leu;0.781,0.810,0.736,0.717,0.741,0.795,0.730,0.746,(4.1424)+(0.0062)Gly+(-0.1368)His+(-0.0411)Cit+(-0.0035)Val+(-0.0028)Lys+(0.0956)Phe;0.781,0.819,0.805,0.819,0.820,0.800,0.738,0.795,(7.3537)+(-0.0755)Asn+(-0.0009)Gly+(0.0205)Thr+(-0.0146)Arg+(0.0045)Lys+(-0.1457)Trp;0.781,0.814,0.715,0.670,0.738,0.813,0.718,0.735,(4.6907)+(0.0056)Gly+(-0.1319)His+(-0.0650)Cit+(-0.0035)Arg+(0.0370)Orn+(0.0425)Ile;0.781,0.816,0.766,0.764,0.766,0.842,0.716,0.772,(2.1451)+(0.0405)Ser+(-0.0085)Ala+(-0.0807)Cit+(0.0192)Pro+(-0.2264)Met+(-0.0017)Lys;0.781,0.811,0.731,0.694,0.747,0.822,

0.728,0.748,(5.6723)+(0.0034)Gly+(-0.1219)His+(-0.0632)Cit+(-0.0209)Val+(0.0505)Orn+(0.0397)Leu;0.781,0.820,0.829,0.851,0.827,0.821,0.779,0.820,(4.7039)+(0.0063)Gln+(-0.0126)Arg+(-0.0001)Val+(-0.1375)Met+(0.0083)Lys+(-0.1396)Trp;0.781,0.817,0.769,0.772,0.752,0.830,0.754,0.777,(0.3317)+(0.0449)Ser+(-0.1592)Asn+(0.0022)Thr+(-0.0084)Ala+(-0.0829)Cit+(0.0821)Phe;0.781,0.817,0.812,0.820,0.821,0.816,0.768,0.806,(6.2410)+(-0.0002)Gly+(0.0143)Tyr+(-0.0018)Val+(-0.1324)Met+(0.0263)Orn+(-0.1311)Trp;0.781,0.816,0.769,0.764,0.763,0.841,0.741,0.777,(2.0698)+(0.0456)Ser+(-0.0040)Gly+(-0.0083)Ala+(-0.0751)Cit+(0.0190)Pro+(-0.2351)Met;0.781,0.812,0.732,0.718,0.737,0.798,0.712,0.741,(6.1632)+(-0.1290)His+(0.0127)Thr+(0.0048)Pro+(-0.0304)Tyr+(-0.0010)Val+(0.0315)Orn;0.781,0.810,0.713,0.676,0.727,0.801,0.722,0.731,(5.0375)+(0.0047)Gly+(-0.1365)His+(0.0133)Thr+(-0.0389)Cit+(-0.0093)Arg+(0.0495)Ile;0.781,0.815,0.794,0.797,0.737,0.876,0.847,0.814,(2.2780)+(0.0043)Gln+(-0.0122)Ala+(-0.0863)Cit+(-0.0121)Arg+(0.1857)Ile+(-0.0876)Leu;0.781,0.815,0.737,0.713,0.728,0.799,0.774,0.753,(5.7595)+(-0.0216)Asn+(0.0042)Gly+(-0.1254)His+(-0.0224)Tyr+(0.0005)Lys+(0.0536)Ile;0.781,0.813,0.731,0.706,0.723,0.795,0.772,0.749,(5.5333)+(0.0036)Gly+(-0.1289)His+(0.0002)Pro+(-0.0236)Tyr+(-0.0011)Lys+(0.0541)Ile;0.781,0.811,0.733,0.713,0.743,0.794,0.721,0.743,(4.1431)+(0.0066)Gly+(-0.1392)His+(-0.0403)Cit+(-0.0042)Arg+(-0.0030)Lys+(0.0912)Phe;0.781,0.809,0.770,0.758,0.766,0.825,0.770,0.780,(3.8079)+(0.0014)Gly+(0.0095)Gln+(-0.1491)His+(-0.0389)Cit+(0.0033)Pro+(0.0029)Val;0.781,0.812,0.724,0.737,0.687,0.811,0.704,0.735,(0.6965)+(0.0333)Ser+(-0.0069)Thr+(-0.0339)Arg+(-0.0395)Tyr+(0.1758)Ile+(-0.0919)Leu;0.781,0.809,0.733,0.699,0.739,0.809,0.752,0.750,(5.4173)+(-0.0317)Asn+(0.0065)Gly+(-0.1209)His+(-0.0460)Cit+(0.0017)Arg+(0.0526)Ile;0.781,0.821,0.790,0.791,0.741,0.853,0.845,0.807,(3.6431)+(-0.0078)Ala+(-0.0070)Tyr+(-0.1868)Met+(0.0019)Lys+(0.1794

)Ile+(-0.0808)Leu;0.781,0.820,0.790,0.787,0.785,0.789,0.808,0.792,(6.0439)+(-0.0414)Asn+(-0.0071)Arg+(-0.0122)Tyr+(0.0000)Lys+(0.0537)Ile+(-0.1501)Trp;0.781,0.817,0.790,0.805,0.791,0.781,0.760,0.784,(5.7851)+(-0.0019)Gly+(0.0051)Pro+(-0.0201)Tyr+(0.0202)Orn+(-0.0014)Lys+(-0.1418)Trp;0.781,0.817,0.772,0.770,0.775,0.771,0.775,0.773,(5.2516)+(-0.0002)Gly+(-0.0153)Arg+(-0.0189)Tyr+(0.0125)Orn+(0.0513)Ile+(-0.1565)Trp;0.781,0.811,0.758,0.721,0.765,0.837,0.785,0.777,(6.5435)+(-0.1097)His+(-0.0052)Ala+(-0.0680)Cit+(-0.0203)Val+(0.0561)Orn+(0.0426)Leu;0.781,0.815,0.745,0.740,0.734,0.765,0.770,0.752,(5.0116)+(-0.1331)His+(-0.0092)Arg+(0.0051)Pro+(-0.0477)Tyr+(0.0036)Lys+(0.0971)Phe;0.781,0.819,0.810,0.824,0.812,0.808,0.773,0.804,(7.1325)+(-0.0534)Asn+(0.0009)Gly+(-0.0051)Arg+(0.0076)Pro+(-0.0029)Val+(-0.1290)Trp;0.781,0.818,0.820,0.840,0.814,0.829,0.775,0.814,(4.9876)+(0.0043)Gln+(-0.0044)Ala+(-0.0184)Arg+(-0.0013)Val+(0.0257)Orn+(-0.1402)Trp;0.781,0.812,0.756,0.738,0.764,0.826,0.737,0.766,(6.7277)+(-0.1287)His+(0.0157)Thr+(-0.0037)Ala+(-0.0163)Arg+(0.0326)Orn+(0.0008)Lys;0.781,0.810,0.766,0.761,0.705,0.833,0.855,0.789,(5.1410)+(-0.1199)Asn+(-0.0014)Pro+(-0.0508)Val+(0.0012)Lys+(0.1774)Ile+(-0.0164)Leu;0.781,0.808,0.750,0.724,0.744,0.827,0.779,0.768,(6.5637)+(-0.1275)His+(0.0202)Thr+(-0.0044)Ala+(-0.0326)Cit+(-0.0188)Val+(0.0465)Leu;0.781,0.816,0.751,0.720,0.760,0.796,0.782,0.765,(4.9329)+(-0.0273)Asn+(-0.1358)His+(-0.0082)Arg+(0.0006)Pro+(0.0253)Orn+(0.0666)Phe;0.781,0.817,0.812,0.819,0.803,0.812,0.811,0.811,(4.7448)+(-0.0025)Gly+(0.0031)Gln+(0.0102)Thr+(-0.0062)Ala+(0.0124)Leu+(-0.1600)Trp;0.781,0.817,0.724,0.684,0.734,0.806,0.753,0.744,(5.1173)+(0.0041)Gly+(-0.1362)His+(-0.0096)Arg+(0.0231)Orn+(-0.0036)Lys+(0.0450)Ile;0.781,0.813,0.739,0.723,0.746,0.804,0.717,0.748,(6.3688)+(-0.0000)Gly+(-0.1306)His+(0.0140)Thr+(-0.0256)Tyr+(0.0333)Orn+(-0.0011)Lys;0.781,0.805,0.751,0.729,0.732,0.822,0.795,0.770,(6.1516)+

(0.0031)Gly+(-0.1191)His+(-0.0054)Ala+(0.0087)Pro+(-0.0189)Val+(0.0432)Leu;0.781,0.826,0.755,0.773,0.746,0.800,0.694,0.753,(-2.7995)+(0.0421)Ser+(-0.0134)Val+(-0.3397)Met+(0.0168)Orn+(-0.0057)Lys+(0.1266)Phe;0.781,0.823,0.816,0.826,0.809,0.805,0.811,0.813,(4.9498)+(-0.0013)Gly+(0.0044)Gln+(-0.0157)Arg+(-0.0219)Val+(0.0435)Leu+(-0.1525)Trp;0.781,0.819,0.840,0.861,0.832,0.837,0.804,0.833,(5.0770)+(-0.0012)Gly+(0.0069)Gln+(-0.0012)Ala+(-0.0078)Arg+(-0.1091)Met+(-0.1321)Trp;0.781,0.819,0.807,0.816,0.798,0.819,0.794,0.807,(4.6872)+(0.0031)Gln+(0.0116)Thr+(-0.0061)Ala+(-0.0067)Lys+(0.0162)Leu+(-0.1568)Trp;0.781,0.820,0.732,0.713,0.747,0.809,0.695,0.741,(-1.3446)+(0.0456)Ser+(0.0018)Gln+(-0.0756)Cit+(-0.0041)Arg+(-0.3353)Met+(0.0700)Ile;0.781,0.820,0.767,0.730,0.774,0.814,0.815,0.783,(6.1862)+(-0.1056)His+(-0.0389)Cit+(0.0104)Arg+(0.0014)Pro+(-0.1554)Met+(0.0620)Ile;0.781,0.817,0.779,0.772,0.785,0.863,0.722,0.785,(3.0092)+(0.0373)Ser+(-0.1285)Asn+(-0.0032)Thr+(-0.0080)Ala+(-0.1138)Cit+(0.0553)Orn;0.781,0.813,0.752,0.732,0.752,0.824,0.752,0.765,(6.0770)+(0.0012)Gly+(-0.1321)His+(0.0109)Thr+(-0.0038)Ala+(0.0006)Val+(0.0298)Orn;0.781,0.810,0.776,0.748,0.794,0.844,0.762,0.787,(7.3485)+(-0.0098)Asn+(-0.0982)His+(-0.0039)Ala+(-0.0735)Cit+(-0.0449)Met+(0.0589)Orn;0.781,0.820,0.747,0.730,0.705,0.832,0.818,0.771,(0.6876)+(0.0487)Ser+(-0.1239)Asn+(-0.0049)Gly+(-0.0120)Thr+(0.1483)Ile+(-0.0794)Leu;0.781,0.816,0.763,0.756,0.772,0.829,0.713,0.767,(6.8173)+(0.0019)Gly+(-0.1220)His+(0.0271)Thr+(-0.0015)Ala+(0.0052)Val+(-0.1484)Met;0.781,0.814,0.742,0.694,0.760,0.822,0.774,0.763,(6.0000)+(-0.1194)His+(-0.0657)Cit+(-0.0030)Pro+(0.0453)Orn+(-0.0092)Lys+(0.0469)Ile;0.781,0.812,0.752,0.736,0.761,0.826,0.724,0.762,(6.5788)+(0.0016)Gly+(-0.1288)His+(0.0152)Thr+(-0.0036)Ala+(-0.0164)Arg+(0.0330)Orn;0.780,0.818,0.711,0.712,0.716,0.755,0.663,0.712,(-3.6486)+(0.0498)Ser+(-0.0003)Gln+(0.0101)Pro+(-0.3923)Met+(-0.0108)Lys+(0.1129)Phe

;0.780,0.812,0.776,0.761,0.740,0.866,0.825,0.798,(3.4955)+(-0.0052)Thr+(-0.0127)Ala+(-0.1160)Cit+(0.0426)Orn+(0.1721)Ile+(-0.0851)Leu;0.780,0.811,0.757,0.732,0.776,0.843,0.725,0.769,(6.4513)+(0.0040)Gly+(-0.1089)His+(-0.0050)Ala+(-0.0800)Cit+(-0.0004)Arg+(0.0579)Orn;0.780,0.814,0.746,0.719,0.743,0.811,0.778,0.763,(6.2785)+(-0.1237)His+(-0.0171)Tyr+(-0.0224)Val+(0.0387)Orn+(-0.0012)Lys+(0.0444)Leu;0.780,0.822,0.803,0.811,0.791,0.812,0.801,0.804,(6.2160)+(-0.0068)Ala+(-0.0097)Arg+(0.0104)Pro+(-0.0029)Tyr+(0.0
118)Leu+(-0.1425)Trp;0.780,0.817,0.814,0.831,0.803,0.824,0.782,0.810,(4.9145)+(0.0032)Gln+(0.0102)Thr+(-0.0050)Ala+(0.0015)Val+(-0.0035)Lys+(-0.1492)Trp;0.780,0.816,0.783,0.791,0.760,0.834,0.772,0.789,(-0.5106)+(0.0426)Ser+(-0.1728)Asn+(0.0038)Gln+(-0.0083)Ala+(-0.0878)Cit+(0.0805)Phe;0.780,0.805,0.726,0.732,0.669,0.800,0.773,0.744,(3.7377)+(0.0139)Thr+(-0.0338)Arg+(0.0007)Pro+(-0.0430)Tyr+(-0.0550)Val+(0.1663)Ile;0.780,0.815,0.765,0.762,0.766,0.842,0.717,0.772,(1.9556)+(0.0406)Ser+(-0.0087)Ala+(-0.0814)Cit+(0.0191)Pro+(0.0039)Tyr+(-0.2394)Met;0.780,0.819,0.832,0.852,0.830,0.819,0.791,0.823,(4.7902)+(-0.0010)Gly+(0.0065)Gln+(-0.0124)Arg+(-0.1363)Met+(0.0082)Lys+(-0.1397)Trp;0.780,0.817,0.719,0.683,0.742,0.806,0.703,0.733,(3.5859)+(0.0064)Gly+(-0.1414)His+(-0.0654)Cit+(-0.0062)Arg+(0.0384)Orn+(0.0751)Phe;0.780,0.814,0.742,0.694,0.761,0.821,0.773,0.762,(6.0307)+(-0.0111)Asn+(-0.1169)His+(-0.0646)Cit+(0.0441)Orn+(-0.0084)Lys+(0.0424)Ile;0.780,0.816,0.798,0.803,0.806,0.791,0.769,0.792,(6.2917)+(0.0009)Gly+(-0.0029)Arg+(0.0082)Pro+(-0.1402)Met+(0.0121)Leu+(-0.1363)Trp;0.780,0.820,0.800,0.819,0.813,0.800,0.722,0.788,(7.3547)+(-0.0755)Asn+(0.0207)Thr+(-0.0144)Arg+(-0.0081)Tyr+(0.0050)Lys+(-0.1424)Trp;0.780,0.810,0.689,0.662,0.641,0.808,0.773,0.721,(1.5427)+(0.0322)Ser+(-0.0041)Gln+(-0.0455)Val+(-0.0183)Lys+(0.1780)Ile+(-0.0203)Leu;0.780,0.813,0.716,0.717,0.687,0.81

2,0.708,0.731,(-2.2730)+(0.0336)Ser+(-0.0491)Arg+(-0.0063)Pro+(0.1866)Ile+(-0.1129)Leu+(0.0606)Phe;0.780,0.820,0.725,0.740,0.752,0.768,0.599,0.715,(-3.4871)+(0.0446)Ser+(0.0191)Thr+(-0.0243)Arg+(-0.4229)Met+(0.0005)Orn+(0.1168)Phe;0.780,0.814,0.754,0.729,0.783,0.831,0.705,0.762,(6.4557)+(0.0043)Gly+(-0.1083)His+(-0.0734)Cit+(0.0025)Arg+(-0.0836)Met+(0.0546)Orn;0.780,0.813,0.772,0.753,0.761,0.815,0.813,0.786,(5.1504)+(-0.1332)His+(-0.0045)Ala+(-0.0070)Arg+(0.0010)Lys+(0.0020)Leu+(0.0809)Phe;0.780,0.814,0.806,0.827,0.800,0.790,0.772,0.797,(5.2554)+(-0.0039)Gly+(0.0032)Gln+(0.0109)Thr+(-0.0194)Tyr+(-0.0014)Val+(-0.1504)Trp;0.780,0.812,0.746,0.715,0.749,0.814,0.774,0.763,(6.3107)+(-0.1237)His+(-0.0093)Arg+(-0.0247)Val+(0.0388)Orn+(-0.0005)Lys+(0.0450)Leu;0.780,0.811,0.753,0.731,0.742,0.821,0.783,0.769,(6.3607)+(-0.1218)His+(-0.0054)Ala+(0.0078)Pro+(-0.0210)Tyr+(0.0324)Orn+(0.0107)Leu;0.780,0.818,0.807,0.814,0.817,0.801,0.775,0.802,(6.4292)+(-0.0353)Asn+(-0.1107)Met+(0.0221)Orn+(0.0048)Lys+(0.0086)Leu+(-0.1369)Trp;0.780,0.813,0.775,0.762,0.742,0.866,0.812,0.796,(3.6172)+(-0.0125)Ala+(-0.1091)Cit+(-0.0094)Arg+(0.0414)Orn+(0.1717)Ile+(-0.0855)Leu;0.780,0.813,0.700,0.706,0.624,0.778,0.788,0.724,(-0.8500)+(0.0186)Ser+(-0.0029)Pro+(-0.0649)Tyr+(-0.0517)Val+(0.1457)Ile+(0.0606)Phe;0.780,0.812,0.749,0.725,0.747,0.822,0.764,0.765,(6.1122)+(0.0024)Gly+(-0.1300)His+(-0.0038)Ala+(-0.0144)Tyr+(0.0332)Orn+(0.0145)Leu;0.780,0.809,0.726,0.736,0.647,0.770,0.833,0.747,(1.8578)+(-0.0052)Gly+(0.0063)Thr+(-0.0729)Tyr+(-0.0542)Val+(0.1506)Ile+(0.0606)Phe;0.780,0.821,0.795,0.809,0.802,0.803,0.737,0.788,(5.8517)+(-0.0196)Arg+(0.0057)Pro+(-0.0060)Val+(0.0244)Orn+(0.0036)Lys+(-0.1417)Trp;0.780,0.820,0.783,0.804,0.793,0.794,0.697,0.772,(6.3688)+(0.0155)Thr+(-0.0195)Arg+(0.0068)Pro+(-0.0157)Tyr+(-0.0028)Val+(-0.1443)Trp;0.780,0.819,0.781,0.763,0.785,0.840,0.782,0.792,(3.6269)+(-0.0205)Asn+(0.0268)Thr+(-0.0097)Ala+(-0.0890)Cit+(-0.

2533)Met+(0.0725)Ile;0.780,0.818,0.807,0.827,0.798,0.788,0.785,0.800,(4.8978)+(-0.0026)Gly+(0.0039)Gln+(0.0057)Pro+(-0.0194)Tyr+(-0.0012)Lys+(-0.1468)Trp;0.780,0.805,0.721,0.701,0.723,0.782,0.722,0.732,(6.0637)+(0.0012)Gly+(-0.1392)His+(0.0171)Thr+(0.0036)Pro+(-0.0292)Tyr+(0.0153)Leu;0.780,0.821,0.714,0.719,0.702,0.732,0.713,0.717,(-3.5720)+(0.0571)Ser+(-0.0073)Gly+(0.0112)Pro+(-0.0319)Tyr+(-0.3742)Met+(0.1105)Phe;0.780,0.820,0.809,0.822,0.798,0.819,0.788,0.807,(6.5648)+(-0.0060)Ala+(-0.0094)Arg+(0.0115)Pro+(-0.0013)Tyr+(-0.0000)Val+(-0.1339)Trp;0.780,0.810,0.743,0.704,0.758,0.824,0.758,0.761,(6.4856)+(-0.1135)His+(-0.0622)Cit+(-0.0230)Val+(0.0555)Orn+(-0.0060)Lys+(0.0442)Leu;0.780,0.807,0.776,0.772,0.765,0.825,0.770,0.783,(4.3057)+(0.0097)Gln+(-0.1371)His+(-0.0353)Cit+(0.0059)Pro+(-0.0169)Tyr+(-0.0001)Lys;0.780,0.822,0.829,0.838,0.834,0.820,0.803,0.824,(4.2958)+(0.0064)Gln+(-0.0088)Arg+(0.0203)Tyr+(-0.1773)Met+(0.0140)Leu+(-0.1463)Trp;0.780,0.821,0.812,0.825,0.820,0.816,0.759,0.805,(7.1206)+(-0.0552)Asn+(-0.0088)Arg+(-0.0025)Tyr+(-0.0042)Val+(0.0321)Orn+(-0.1242)Trp;0.780,0.813,0.751,0.741,0.759,0.816,0.715,0.758,(7.0606)+(-0.1245)His+(0.0186)Thr+(-0.0026)Ala+(-0.0167)Arg+(-0.0222)Tyr+(0.0369)Orn;0.780,0.813,0.702,0.707,0.626,0.778,0.795,0.726,(-0.9818)+(0.0233)Ser+(-0.0086)Thr+(-0.0607)Tyr+(-0.0503)Val+(0.1412)Ile+(0.0594)Phe;0.780,0.812,0.737,0.723,0.744,0.803,0.716,0.746,(6.3042)+(0.0000)Gly+(-0.1316)His+(0.0136)Thr+(-0.0263)Tyr+(0.0002)Val+(0.0328)Orn;0.780,0.815,0.823,0.837,0.811,0.824,0.810,0.820,(4.9253)+(-0.0021)Gly+(0.0037)Gln+(-0.0049)Ala+(0.0209)Orn+(-0.0027)Lys+(-0.1426)Trp;0.780,0.818,0.797,0.801,0.795,0.815,0.778,0.797,(5.5215)+(0.0116)Thr+(-0.0061)Ala+(0.0162)Orn+(-0.0064)Lys+(0.0138)Leu+(-0.1516)Trp;0.780,0.809,0.727,0.691,0.733,0.807,0.751,0.745,(5.2472)+(0.0058)Gly+(-0.1235)His+(-0.0474)Cit+(0.0022)Arg+(-0.0057)Lys+(0.0561)Ile;0.780,0.813,0.790,0.788,0.770,0.844,0.800,0.800,(4.577

3)+(0.0096)Gln+(-0.1284)His+(-0.0050)Ala+(-0.0397)Cit+(0.0098)Pro+(-0.0108)Tyr;0.780,0.813,0.780,0.784,0.770,0.797,0.779,0.783,(0.8923)+(0.0020)Gly+(-0.0446)Val+(-0.3360)Met+(0.0270)Orn+(0.0590)Leu+(0.1034)Phe;0.780,0.806,0.743,0.749,0.685,0.816,0.794,0.761,(3.3720)+(0.0010)Gln+(-0.0669)Cit+(-0.0432)Tyr+(-0.0345)Val+(0.1831)Ile+(-0.0417)Leu;0.780,0.821,0.805,0.816,0.811,0.793,0.772,0.798,(4.9015)+(-0.0033)Gly+(0.0027)Gln+(0.0080)Thr+(0.0141)Orn+(-0.0063)Lys+(-0.1544)Trp;0.780,0.820,0.837,0.856,0.833,0.822,0.806,0.829,(5.2431)+(-0.0827)Asn+(-0.0005)Gly+(0.0070)Gln+(-0.0130)Arg+(0.0064)Lys+(-0.1425)Trp;0.780,0.818,0.783,0.800,0.784,0.780,0.741,0.776,(4.4757)+(0.0021)Gln+(0.0060)Thr+(-0.0218)Tyr+(0.0121)Orn+(0.0064)Leu+(-0.1560)Trp;0.780,0.817,0.750,0.764,0.736,0.788,0.713,0.750,(-3.3630)+(0.0445)Ser+(-0.0001)Gln+(-0.0037)Ala+(-0.3492)Met+(-0.0011)Leu+(0.1099)Phe;0.780,0.816,0.799,0.802,0.797,0.806,0.790,0.799,(5.5155)+(-0.0019)Gly+(0.0101)Thr+(-0.0061)Ala+(0.0148)Orn+(0.0106)Leu+(-0.1550)Trp;0.780,0.816,0.809,0.817,0.819,0.808,0.769,0.803,(5.9399)+(-0.0000)Gly+(0.0140)Tyr+(-0.1494)Met+(0.0218)Orn+(0.0051)Lys+(-0.1385)Trp;0.780,0.813,0.740,0.721,0.693,0.811,0.836,0.765,(2.4471)+(-0.0544)Cit+(-0.0147)Arg+(-0.0539)Val+(-0.0140)Lys+(0.1607)Ile+(0.0509)Phe;0.780,0.810,0.761,0.740,0.763,0.820,0.770,0.773,(7.1239)+(-0.0319)Asn+(-0.1309)His+(0.0226)Thr+(-0.0042)Ala+(-0.0095)Arg+(0.0164)Leu;0.780,0.817,0.807,0.828,0.802,0.796,0.770,0.799,(5.3471)+(-0.0040)Gly+(0.0035)Gln+(0.0124)Thr+(-0.0191)Tyr+(-0.0040)Lys+(-0.1496)Trp;0.780,0.821,0.775,0.787,0.780,0.776,0.734,0.769,(5.5259)+(0.0114)Thr+(0.0041)Pro+(-0.0209)Tyr+(-0.0049)Lys+(0.0097)Leu+(-0.1533)Trp;0.780,0.818,0.812,0.815,0.805,0.804,0.822,0.812,(7.1560)+(-0.0686)Asn+(-0.0049)Arg+(-0.0263)Val+(0.0069)Lys+(0.0503)Leu+(-0.1348)Trp;0.780,0.818,0.753,0.713,0.776,0.814,0.765,0.767,(5.1957)+(-0.0260)Asn+(-0.1224)His+(-0.0658)Cit+(0.0453)Orn+(-0.0069)Lys+(0.0711)Ph

e;0.780,0.813,0.784,0.786,0.749,0.836,0.811,0.796,(1.7820)+(-0.0370)Asn+(0.0005)Gly+(0.0052)Gln+(-0.2411)Met+(0.1636)Ile+(-0.0803)Leu;0.780,0.813,0.744,0.702,0.751,0.807,0.792,0.763,(5.7888)+(-0.0147)Asn+(-0.1324)His+(-0.0070)Arg+(-0.0022)Pro+(0.0250)Orn+(0.0417)Ile;0.780,0.813,0.757,0.728,0.766,0.839,0.756,0.772,(6.5093)+(-0.1119)His+(0.0096)Thr+(-0.0077)Ala+(-0.0769)Cit+(0.0083)Pro+(0.0500)Orn;0.780,0.810,0.765,0.735,0.774,0.841,0.772,0.781,(6.8457)+(-0.1030)His+(-0.0076)Ala+(-0.0785)Cit+(0.0094)Pro+(0.0556)Orn+(-0.0018)Lys;0.780,0.814,0.753,0.728,0.781,0.831,0.703,0.761,(6.4083)+(0.0043)Gly+(-0.1098)His+(-0.0700)Cit+(-0.0883)Met+(0.0530)Orn+(0.0025)Lys;0.780,0.810,0.734,0.719,0.737,0.793,0.725,0.744,(6.7265)+(-0.0430)Asn+(0.0020)Gly+(-0.1334)His+(0.0216)Thr+(-0.0240)Tyr+(0.0172)Leu;0.780,0.807,0.773,0.770,0.763,0.825,0.765,0.781,(4.2623)+(0.0006)Gly+(0.0096)Gln+(-0.1373)His+(-0.0360)Cit+(0.0059)Pro+(-0.0165)Tyr;0.780,0.820,0.808,0.816,0.818,0.793,0.776,0.801,(6.3251)+(-0.0089)Arg+(0.0090)Pro+(0.0136)Tyr+(-0.1653)Met+(0.0102)Lys+(-0.1407)Trp;0.780,0.818,0.815,0.822,0.812,0.819,0.801,0.813,(6.5445)+(-0.0562)Asn+(-0.0043)Ala+(0.0233)Orn+(0.0020)Lys+(0.0086)Leu+(-0.1370)Trp;0.780,0.815,0.819,0.836,0.813,0.828,0.778,0.814,(4.8862)+(0.0042)Gln+(-0.0047)Ala+(-0.0191)Arg+(0.0241)Orn+(0.0015)Lys+(-0.1434)Trp;0.780,0.815,0.731,0.763,0.685,0.767,0.718,0.733,(1.3868)+(0.0096)Thr+(-0.0361)Arg+(-0.0805)Tyr+(0.1736)Ile+(-0.1065)Leu+(0.0962)Phe;0.780,0.814,0.805,0.810,0.816,0.803,0.769,0.800,(6.6288)+(-0.0284)Asn+(-0.0050)Arg+(-0.0987)Met+(0.0257)Orn+(0.0099)Leu+(-0.1329)Trp;0.780,0.819,0.787,0.793,0.798,0.770,0.764,0.781,(5.1106)+(-0.0022)Gly+(0.0062)Thr+(0.0022)Pro+(0.0112)Orn+(0.0033)Leu+(-0.1606)Trp;0.780,0.816,0.814,0.821,0.814,0.819,0.790,0.811,(6.7433)+(-0.0455)Asn+(-0.0041)Ala+(-0.0080)Arg+(0.0268)Orn+(0.0092)Leu+(-0.1348)Trp;0.780,0.817,0.727,0.692,0.703,0.836,0.791,0.756,(3.4250)+(0.0008)Gly+(-0.1008)C

it+(-0.0498)Val+(0.0518)Orn+(-0.0215)Lys+(0.1552)Ile;0.780,0.818,0.772,0.770,0.774,0.771,0.775,0.772,(5.2229)+(-0.0154)Arg+(0.0003)Pro+(-0.0190)Tyr+(0.0123)Orn+(0.0511)Ile+(-0.1566)Trp;0.780,0.817,0.807,0.806,0.792,0.816,0.831,0.811,(5.9109)+(0.0003)Gly+(-0.0046)Ala+(0.0040)Tyr+(-0.0229)Val+(0.0519)Leu+(-0.1455)Trp;0.780,0.810,0.757,0.742,0.746,0.821,0.771,0.770,(6.5162)+(-0.1142)His+(-0.0049)Ala+(0.0091)Pro+(-0.0188)Tyr+(-0.0007)Val+(0.0355)Orn;0.780,0.810,0.720,0.725,0.647,0.771,0.821,0.741,(2.1486)+(-0.0026)Gln+(-0.0015)Pro+(-0.0610)Tyr+(-0.0539)Val+(0.1539)Ile+(0.0618)Phe;0.780,0.809,0.761,0.775,0.690,0.825,0.827,0.779,(2.6201)+(0.0005)Gln+(-0.0099)Ala+(-0.0421)Tyr+(0.0106)Orn+(0.1693)Ile+(-0.0846)Leu;0.780,0.806,0.733,0.712,0.734,0.801,0.740,0.747,(6.6143)+(-0.1300)His+(0.0216)Thr+(-0.0285)Cit+(-0.0224)Tyr+(-0.0190)Val+(0.0452)Leu;0.780,0.818,0.808,0.805,0.800,0.853,0.798,0.814,(4.1337)+(0.0113)Gln+(-0.1328)His+(-0.0324)Cit+(0.0100)Tyr+(-0.1245)Met+(0.0048)Lys;0.780,0.817,0.823,0.831,0.832,0.812,0.790,0.817,(6.6524)+(-0.0373)Asn+(0.0013)Gly+(0.0203)Tyr+(-0.1223)Met+(0.0096)Lys+(-0.1394)Trp;0.780,0.816,0.817,0.8

33,0.807,0.823,0.792,0.814,(4.7499)+(0.0032)Gln+(-0.0049)Ala+(-0.0005)Val+(0.0208)Orn+(-0.0023)Lys+(-0.1421)Trp;0.780,0.809,0.728,0.707,0.733,0.787,0.727,0.739,(3.9364)+(0.0060)Gly+(-0.1385)His+(-0.0403)Cit+(0.0029)Pro+(-0.0050)Val+(0.0919)Phe;0.780,0.805,0.734,0.717,0.692,0.824,0.801,0.758,(3.7234)+(0.0111)Thr+(-0.0503)Cit+(-0.0180)Arg+(-0.0527)Val+(-0.0137)Lys+(0.1655)Ile;0.780,0.806,0.725,0.717,0.671,0.793,0.807,0.747,(1.9519)+(-0.0011)Gln+(0.0081)Thr+(-0.0372)Arg+(-0.0617)Val+(0.1639)Ile+(0.0396)Phe;0.780,0.813,0.798,0.800,0.733,0.868,0.875,0.819,(2.7673)+(-0.0970)Asn+(0.0037)Gln+(-0.0099)Ala+(0.0087)Orn+(0.1608)Ile+(-0.0831)Leu;0.780,0.810,0.774,0.745,0.791,0.844,0.762,0.786,(7.1308)+(-0.1004)His+(-0.0039)Ala+(-0.0763)Cit+(0.0039)Arg+(-0.0575)M

et+(0.0587)Orn;0.780,0.817,0.745,0.744,0.740,0.778,0.731,0.748,(-2.9650)+(0.0555)Ser+(-0.0068)Gly+(-0.3424)Met+(0.0122)Orn+(-0.0119)Lys+(0.1059)Phe;0.780,0.816,0.768,0.767,0.774,0.831,0.713,0.772,(7.2222)+(-0.0152)Asn+(0.0015)Gly+(-0.1130)His+(0.0274)Thr+(-0.0008)Ala+(-0.1293)Met;0.780,0.812,0.740,0.730,0.754,0.803,0.690,0.744,(6.8546)+(0.0004)Gly+(-0.1284)His+(0.0184)Thr+(-0.0173)Arg+(-0.0268)Tyr+(0.0360)Orn;0.780,0.811,0.802,0.806,0.789,0.854,0.785,0.808,(4.5258)+(0.0008)Gly+(0.0111)Gln+(-0.1361)His+(-0.0021)Ala+(-0.0272)Cit+(-0.0127)Arg;0.780,0.814,0.750,0.742,0.713,0.801,0.808,0.766,(0.6939)+(0.0567)Ser+(-0.2235)Asn+(-0.0046)Gly+(-0.0490)Val+(0.0593)Leu+(0.0898)Phe;0.780,0.814,0.809,0.822,0.814,0.815,0.760,0.803,(6.4126)+(-0.0023)Ala+(-0.0112)Arg+(-0.1033)Met+(0.0280)Orn+(0.0072)Lys+(-0.1323)Trp;0.780,0.814,0.810,0.823,0.815,0.822,0.759,0.805,(6.6406)+(-0.0022)Ala+(-0.0080)Arg+(-0.0007)Val+(-0.0869)Met+(0.0316)Orn+(-0.1253)Trp;0.780,0.813,0.705,0.681,0.650,0.823,0.796,0.738,(0.5047)+(0.0263)Ser+(-0.0057)Pro+(-0.0516)Val+(0.0170)Orn+(-0.0241)Lys+(0.1649)Ile;0.780,0.812,0.807,0.816,0.749,0.873,0.859,0.824,(2.8064)+(-0.0745)Asn+(0.0058)Gln+(-0.0092)Ala+(-0.0237)Arg+(0.1743)Ile+(-0.0892)Leu;0.780,0.810,0.730,0.704,0.729,0.802,0.751,0.746,(5.5437)+(0.0051)Gly+(-0.1212)His+(-0.0427)Cit+(0.0002)Arg+(-0.0224)Tyr+(0.0570)Ile;0.780,0.808,0.734,0.732,0.679,0.795,0.808,0.754,(1.5635)+(0.0005)Gly+(-0.0347)Arg+(-0.0456)Val+(0.1922)Ile+(-0.0461)Leu+(0.0486)Phe;0.780,0.817,0.810,0.830,0.798,0.821,0.775,0.806,(4.8747)+(0.0031)Gln+(0.0095)Thr+(-0.0047)Ala+(-0.0071)Tyr+(0.0011)Val+(-0.1489)Trp;0.780,0.817,0.811,0.818,0.819,0.808,0.778,0.806,(6.7374)+(-0.0034)Arg+(0.0092)Pro+(0.0146)Tyr+(-0.0010)Val+(-0.1399)Met+(-0.1305)Trp;0.780,0.810,0.762,0.727,0.768,0.841,0.784,0.780,(6.5313)+(-0.1107)His+(-0.0083)Ala+(-0.0766)Cit+(0.0084)Pro+(0.0515)Orn+(0.0095)Leu;0.780,0.816,0.753,0.723,0.762,0.798,0.783,0.766,(4.9851)+(-0.

0254)Asn+(-0.1349)His+(-0.0074)Arg+(0.0264)Orn+(-0.0019)Lys+(0.0684)Phe;0.780,0.814,0.747,0.706,0.752,0.790,0.812,0.765,(4.8541)+(-0.0259)Asn+(-0.1306)His+(-0.0365)Cit+(0.0009)Arg+(0.0338)Ile+(0.0566)Phe;0.780,0.814,0.753,0.728,0.783,0.831,0.702,0.761,(6.4826)+(0.0044)Gly+(-0.1088)His+(-0.0715)Cit+(0.0006)Val+(-0.0816)Met+(0.0541)Orn;0.780,0.812,0.738,0.723,0.745,0.804,0.717,0.747,(6.3634)+(-0.1311)His+(0.0141)Thr+(-0.0259)Tyr+(0.0004)Val+(0.0331)Orn+(-0.0012)Lys;0.780,0.811,0.735,0.719,0.738,0.790,0.734,0.745,(6.8773)+(-0.0404)Asn+(-0.1298)His+(0.0219)Thr+(0.0039)Pro+(-0.0300)Tyr+(0.0146)Leu;0.780,0.819,0.833,0.850,0.831,0.818,0.806,0.826,(5.0378)+(-0.0822)Asn+(0.0069)Gln+(-0.0126)Arg+(0.0047)Lys+(0.0059)Leu+(-0.1464)Trp;0.780,0.814,0.728,0.706,0.720,0.791,0.756,0.743,(-2.1225)+(0.0547)Ser+(-0.0062)Gly+(0.0004)Gln+(-0.3558)Met+(-0.0005)Orn+(0.0650)Ile;0.780,0.817,0.831,0.838,0.836,0.820,0.811,0.826,(6.9105)+(-0.0345)Asn+(-0.0018)Ala+(0.0215)Tyr+(-0.1106)Met+(0.0098)Lys+(-0.1379)Trp;0.780,0.813,0.741,0.700,0.746,0.809,0.789,0.761,(5.7308)+(-0.1328)His+(-0.0064)Arg+(-0.0023)Pro+(0.0261)Orn+(-0.0045)Lys+(0.0448)Ile;0.780,0.819,0.789,0.799,0.808,0.787,0.725,0.780,(6.0017)+(-0.0022)Gly+(0.0126)Thr+(-0.0226)Arg+(0.0033)Pro+(0.0175)Orn+(-0.1561)Trp;0.780,0.818,0.796,0.817,0.797,0.796,0.736,0.787,(4.7771)+(0.0038)Gln+(-0.0200)Arg+(0.0051)Pro+(-0.0171)Tyr+(0.0195)Orn+(-0.1462)Trp;0.780,0.815,0.758,0.752,0.771,0.822,0.700,0.761,(6.8344)+(-0.0075)Asn+(0.0019)Gly+(-0.1215)His+(0.0274)Thr+(0.0041)Val+(-0.1511)Met;0.780,0.815,0.737,0.725,0.732,0.798,0.734,0.747,(-1.5361)+(0.0488)Ser+(-0.0727)Asn+(0.0017)Gln+(-0.0057)Tyr+(-0.2863)Met+(0.0618)Ile;0.780,0.809,0.718,0.705,0.709,0.834,0.691,0.735,(0.6127)+(0.0336)Ser+(-0.0699)Cit+(-0.0202)Arg+(-0.0141)Lys+(0.1638)Ile+(-0.0824)Leu;0.780,0.821,0.783,0.796,0.801,0.791,0.708,0.774,(5.7117)+(0.0114)Thr+(-0.0223)Arg+(0.0035)Pro+(0.0175)Orn+(-0.0010)Lys+(-0.1540)Trp;0.780,0

.819,0.786,0.807,0.797,0.806,0.693,0.776,(6.2001)+(0.0139)Thr+(-0.021
6)Arg+(-0.0136)Tyr+(-0.0037)Val+(0.0246)Orn+(-0.1419)Trp;0.780,0.817,
0.736,0.745,0.753,0.771,0.652,0.730,(-2.6412)+(0.0480)Ser+(-0.0812)Ci
t+(-0.0174)Tyr+(-0.3389)Met+(-0.0013)Leu+(0.1266)Phe;0.780,0.816,0.82
3,0.841,0.821,0.829,0.774,0.816,(5.5549)+(-0.0032)Gly+(0.0045)Gln+(0.
0165)Thr+(-0.0044)Ala+(-0.0210)Arg+(-0.1515)Trp;0.780,0.820,0.797,0.8
13,0.791,0.786,0.771,0.790,(4.5031)+(0.0033)Gln+(0.0046)Pro+(-0.0179)
Tyr+(-0.0033)Lys+(0.0081)Leu+(-0.1523)Trp;0.780,0.819,0.753,0.762,0.7
43,0.803,0.714,0.755,(-2.9381)+(0.0443)Ser+(-0.0038)Ala+(-0.3215)Met+
(0.0120)Orn+(-0.0102)Lys+(0.1100)Phe;0.780,0.815,0.748,0.738,0.760,0.
808,0.706,0.753,(7.3712)+(-0.0346)Asn+(-0.1213)His+(0.0212)Thr+(-0.01
51)Arg+(-0.0269)Tyr+(0.0363)Orn;0.780,0.822,0.725,0.700,0.717,0.800,0
.750,0.742,(-1.3141)+(0.0563)Ser+(-0.0064)Gly+(0.0038)Pro+(-0.3215)Me
t+(-0.0118)Lys+(0.0671)Ile;0.780,0.817,0.739,0.710,0.738,0.798,0.773,
0.755,(6.1062)+(-0.1270)His+(-0.0073)Arg+(-0.0320)Tyr+(0.0300)Orn+(-0
.0009)Lys+(0.0467)Ile;0.780,0.817,0.763,0.733,0.762,0.808,0.815,0.779
,(6.2038)+(-0.1112)His+(0.0032)Arg+(0.0020)Pro+(-0.0061)Tyr+(-0.1450)
Met+(0.0601)Ile;0.780,0.817,0.776,0.769,0.784,0.861,0.718,0.783,(3.00
10)+(0.0364)Ser+(-0.1329)Asn+(-0.0083)Ala+(-0.1146)Cit+(0.0536)Orn+(0
.0013)Leu;0.780,0.816,0.780,0.770,0.786,0.861,0.739,0.789,(3.1208)+(0
.0392)Ser+(-0.1318)Asn+(-0.0023)Gly+(-0.0081)Ala+(-0.1109)Cit+(0.0531
)Orn;0.780,0.811,0.785,0.785,0.774,0.803,0.796,0.789,(1.3939)+(-0.043
4)Val+(-0.3197)Met+(0.0303)Orn+(-0.0034)Lys+(0.0584)Leu+(0.0999)Phe;0
.780,0.810,0.739,0.724,0.743,0.793,0.736,0.749,(7.0109)+(-0.0381)Asn+
(-0.1320)His+(0.0231)Thr+(-0.0259)Tyr+(-0.0013)Lys+(0.0171)Leu;0.780,
0.820,0.799,0.807,0.805,0.780,0.780,0.793,(4.4755)+(-0.0027)Gly+(0.00
22)Gln+(0.0052)Thr+(0.0099)Orn+(0.0038)Leu+(-0.1631)Trp;0.780,0.817,0
.740,0.752,0.755,0.767,0.659,0.733,(-3.1951)+(0.0458)Ser+(0.0020)Gln+

(-0.0854)Cit+(-0.0181)Tyr+(-0.3493)Met+(0.1252)Phe;0.780,0.816,0.785,0.782,0.735,0.868,0.839,0.806,(3.7585)+(0.0025)Thr+(-0.0120)Ala+(-0.0824)Cit+(-0.0074)Arg+(0.1797)Ile+(-0.0840)Leu;0.780,0.815,0.810,0.817,0.823,0.812,0.760,0.803,(6.3779)+(0.0001)Gly+(-0.0082)Arg+(0.0146)Tyr+(-0.1258)Met+(0.0273)Orn+(-0.1320)Trp;0.780,0.813,0.736,0.714,0.729,0.797,0.766,0.752,(5.8509)+(-0.0169)Asn+(0.0044)Gly+(-0.1243)His+(-0.0047)Arg+(-0.0212)Tyr+(0.0540)Ile;0.780,0.813,0.769,0.777,0.732,0.827,0.785,0.780,(4.9368)+(-0.0569)Asn+(-0.0682)Cit+(-0.0007)Pro+(-0.0395)Tyr+(0.1594)Ile+(-0.0807)Leu;0.780,0.817,0.786,0.788,0.744,0.854,0.822,0.802,(3.8464)+(0.0025)Gly+(-0.0076)Ala+(-0.0135)Arg+(-0.1757)Met+(0.1833)Ile+(-0.0821)Leu;0.780,0.811,0.715,0.709,0.662,0.812,0.769,0.738,(1.5021)+(0.0201)Ser+(-0.0667)Cit+(-0.0008)Pro+(-0.0430)Tyr+(-0.0458)Val+(0.1494)Ile;0.780,0.810,0.731,0.694,0.746,0.803,0.745,0.747,(5.8713)+(-0.1441)His+(0.0139)Thr+(0.0004)Pro+(0.0249)Orn+(-0.0067)Lys+(0.0120)Leu;0.780,0.817,0.778,0.772,0.786,0.862,0.715,0.784,(3.0869)+(0.0364)Ser+(-0.1309)Asn+(-0.0081)Ala+(-0.1130)Cit+(-0.0020)Arg+(0.0542)Orn;0.780,0.820,0.794,0.809,0.807,0.799,0.727,0.786,(7.1248)+(-0.0710)Asn+(0.0219)Thr+(-0.0125)Arg+(-0.0114)Tyr+(0.0098)Leu+(-0.1463)Trp;0.780,0.820,0.835,0.851,0.832,0.821,0.812,0.829,(5.1109)+(-0.0762)Asn+(-0.0004)Gly+(0.0070)Gln+(-0.0102)Arg+(0.0081)Leu+(-0.1445)Trp;0.780,0.818,0.825,0.839,0.826,0.812,0.799,0.819,(4.5389)+(-0.0007)Gly+(0.0065)Gln+(-0.0077)Arg+(-0.1446)Met+(0.0145)Leu+(-0.1421)Trp;0.780,0.817,0.814,0.837,0.813,0.829,0.747,0.806,(5.2651)+(0.0041)Gln+(0.0151)Thr+(-0.0042)Ala+(-0.0206)Arg+(-0.0039)Tyr+(-0.1483)Trp;0.780,0.815,0.820,0.835,0.808,0.821,0.804,0.817,(5.1073)+(-0.0030)Gly+(0.0034)Gln+(0.0106)Thr+(-0.0050)Ala+(0.0005)Val+(-0.1519)Trp;0.780,0.815,0.723,0.699,0.719,0.785,0.750,0.738,(-2.0276)+(0.0557)Ser+(-0.0063)Gly+(0.0040)Pro+(-0.3643)Met+(-0.0013)Orn+(0.0608)Ile;0.780,0.813,0.769,0.75

0,0.767,0.803,0.800,0.780,(0.5706)+(0.0266)Thr+(-0.0080)Ala+(-0.3441)Met+(-0.0163)Lys+(0.0609)Ile+(0.0822)Phe;0.780,0.811,0.771,0.771,0.757,0.785,0.788,0.775,(1.2661)+(0.0091)Pro+(-0.0447)Val+(-0.3559)Met+(0.0254)Orn+(0.0554)Leu+(0.1000)Phe;0.780,0.810,0.748,0.729,0.743,0.811,0.763,0.761,(6.6531)+(-0.1354)His+(0.0206)Thr+(-0.0037)Ala+(-0.0193)Tyr+(-0.0032)Lys+(0.0205)Leu;0.780,0.809,0.788,0.787,0.782,0.839,0.765,0.793,(4.1595)+(0.0009)Gly+(0.0111)Gln+(-0.1453)His+(-0.0232)Cit+(-0.0165)Arg+(0.0031)Lys;0.780,0.808,0.743,0.726,0.736,0.807,0.756,0.756,(6.3178)+(0.0013)Gly+(-0.1376)His+(0.0183)Thr+(-0.0037)Ala+(-0.0188)Tyr+(0.0197)Leu;0.780,0.821,0.790,0.804,0.790,0.791,0.749,0.784,(4.6791)+(0.0028)Gln+(0.0104)Thr+(-0.0185)Tyr+(-0.0066)Lys+(0.0115)Leu+(-0.1561)Trp;0.780,0.821,0.759,0.778,0.754,0.795,0.695,0.755,(-2.9629)+(0.0466)Ser+(-0.0035)Ala+(-0.0171)Arg+(-0.3265)Met+(-0.0021)Leu+(0.1148)Phe;0.780,0.817,0.798,0.820,0.796,0.801,0.745,0.790,(4.8961)+(0.0029)Gln+(0.0093)Thr+(-0.0147)Tyr+(-0.0005)Val+(-0.0033)Lys+(-0.1486)Trp;0.779,0.816,0.730,0.717,0.736,0.795,0.702,0.738,(-1.0752)+(0.0509)Ser+(-0.0577)Asn+(-0.0111)Arg+(-0.2849)Met+(0.0042)Orn+(0.0618)Ile;0.779,0.816,0.762,0.733,0.762,0.803,0.809,0.777,(6.1605)+(-0.1138)His+(0.0023)Pro+(-0.0081)Tyr+(-0.1503)Met+(0.0048)Lys+(0.0577)Ile;0.779,0.810,0.764,0.735,0.773,0.840,0.771,0.780,(6.7642)+(-0.1039)His+(-0.0076)Ala+(-0.0775)Cit+(0.0095)Pro+(-0.0009)Val+(0.0549)Orn;0.779,0.823,0.722,0.698,0.743,0.801,0.688,0.732,(-0.9057)+(0.0476)Ser+(-0.0757)Cit+(0.0046)Pro+(-0.0035)Tyr+(-0.3390)Met+(0.0653)Ile;0.779,0.816,0.755,0.748,0.780,0.825,0.673,0.757,(6.9014)+(0.0033)Gly+(-0.1168)His+(0.0283)Thr+(-0.0399)Cit+(0.0058)Val+(-0.1611)Met;0.779,0.812,0.732,0.719,0.747,0.798,0.687,0.738,(6.742
7)+(-0.1271)His+(0.0181)Thr+(-0.0176)Arg+(0.0049)Pro+(-0.0327)Tyr+(0.0339)Orn;0.779,0.811,0.764,0.745,0.763,0.789,0.797,0.774,(5.5211)+(-0

.0412)Asn+(-0.1179)His+(-0.0291)Cit+(0.0041)Pro+(-0.0082)Val+(0.0924)Phe;0.779,0.810,0.767,0.740,0.766,0.829,0.794,0.782,(6.4901)+(-0.1139)His+(-0.0052)Ala+(0.0088)Pro+(-0.1024)Met+(0.0310)Orn+(0.0133)Leu;0.779,0.807,0.752,0.746,0.739,0.822,0.744,0.763,(6.6440)+(0.0008)Gly+(-0.1188)His+(0.0154)Thr+(-0.0047)Ala+(0.0093)Pro+(-0.0185)Tyr;0.779,0.817,0.814,0.835,0.813,0.830,0.751,0.807,(5.1825)+(0.0041)Gln+(0.0146)Thr+(-0.0045)Ala+(-0.0208)Arg+(0.0008)Val+(-0.1506)Trp;0.779,0.811,0.770,0.737,0.788,0.840,0.773,0.784,(7.0112)+(-0.1065)His+(-0.0049)Ala+(-0.0707)Cit+(-0.0704)Met+(0.0538)Orn+(0.0146)Leu;0.779,0.810,0.800,0.802,0.786,0.850,0.790,0.807,(4.4104)+(0.0112)Gln+(-0.1400)His+(-0.0024)Ala+(-0.0241)Cit+(-0.0155)Arg+(0.0041)Lys;0.779,0.815,0.824,0.841,0.819,0.827,0.791,0.819,(5.0943)+(-0.0019)Gly+(0.0046)Gln+(-0.0046)Ala+(-0.0181)Arg+(0.0249)Orn+(-0.1423)Trp;0.779,0.807,0.774,0.746,0.788,0.845,0.766,0.786,(7.3181)+(-0.0228)Asn+(-0.1007)His+(-0.0047)Ala+(-0.0748)Cit+(0.0583)Orn+(0.0002)Lys;0.779,0.806,0.774,0.746,0.789,0.845,0.766,0.786,(7.3379)+(-0.0230)Asn+(-0.1001)His+(-0.0047)Ala+(-0.0748)Cit+(-0.0003)Val+(0.0586)Orn;0.779,0.813,0.811,0.822,0.815,0.821,0.764,0.805,(6.6422)+(-0.0002)Gly+(-0.0023)Ala+(-0.0079)Arg+(-0.0874)Met+(0.0311)Orn+(-0.1262)Trp;0.779,0.810,0.769,0.749,0.767,0.830,0.781,0.782,(6.6417)+(-0.0000)Asn+(-0.1075)His+(-0.0048)Ala+(0.0100)Pro+(-0.0873)Met+(0.0345)Orn;0.779,0.817,0.744,0.742,0.708,0.815,0.771,0.759,(0.4865)+(0.0522)Ser+(-0.2123)Asn+(-0.0474)Val+(-0.0077)Lys+(0.0612)Leu+(0.0924)Phe;0.779,0.809,0.724,0.699,0.733,0.786,0.723,0.735,(3.8194)+(0.0063)Gly+(-0.1430)His+(-0.0424)Cit+(0.0018)Pro+(-0.0003)Leu+(0.0846)Phe;0.779,0.819,0.807,0.817,0.807,0.786,0.796,0.802,(4.5017)+(-0.0019)Gly+(0.0035)Gln+(0.0032)Pro+(-0.0045)Lys+(0.0071)Leu+(-0.1575)Trp;0.779,0.818,0.811,0.826,0.812,0.800,0.779,0.804,(5.0948)+(-0.0033)Gly+(0.0031)Gln+(0.0100)Thr+(-0.0016)Val+(-0.0043)Lys+(-0.1533)Trp;0

.779,0.815,0.822,0.836,0.811,0.821,0.809,0.819,(4.8959)+(-0.0021)Gly+(0.0034)Gln+(-0.0049)Ala+(-0.0012)Val+(0.0205)Orn+(-0.1436)Trp;0.779,0.808,0.751,0.727,0.748,0.822,0.768,0.766,(6.5716)+(-0.1324)His+(0.0186)Thr+(-0.0059)Ala+(-0.0124)Arg+(0.0064)Pro+(0.0142)Leu;0.779,0.814,0.830,0.839,0.835,0.831,0.796,0.825,(7.0716)+(-0.0281)Asn+(0.0015)Gly+(-0.0017)Ala+(0.0245)Tyr+(-0.0918)Met+(-0.1296)Trp;0.779,0.807,0.721,0.719,0.646,0.799,0.822,0.747,(1.4496)+(0.0325)Ser+(-0.0109)Gly+(-0.0494)Tyr+(-0.0394)Val+(0.1810)Ile+(-0.0361)Leu;0.779,0.813,0.783,0.784,0.750,0.834,0.813,0.795,(1.8299)+(-0.0374)Asn+(0.0050)Gln+(-0.2406)Met+(0.0048)Orn+(0.1623)Ile+(-0.0806)Leu;0.779,0.815,0.768,0.760,0.775,0.828,0.730,0.773,(7.1145)+(-0.0050)Asn+(-0.1194)His+(0.0282)Thr+(-0.0015)Ala+(0.0044)Val+(-0.1428)Met;0.779,0.815,0.741,0.720,0.705,0.831,0.805,0.765,(0.9815)+(0.0440)Ser+(-0.1492)Asn+(-0.0054)Gly+(0.0066)Orn+(0.1385)Ile+(-0.0773)Leu;0.779,0.817,0.809,0.811,0.822,0.805,0.781,0.805,(6.4058)+(-0.0294)Asn+(0.0114)Tyr+(-0.1224)Met+(0.0225)Orn+(0.0102)Leu+(-0.1365)Trp;0.779,0.815,0.814,0.832,0.802,0.821,0.787,0.811,(4.7604)+(0.0031)Gln+(-0.0046)Ala+(-0.0068)Tyr+(-0.0008)Val+(0.0208)Orn+(-0.1416)Trp;0.779,0.812,0.757,0.739,0.765,0.826,0.737,0.767,(6.7827)+(-0.1274)His+(0.0160)Thr+(-0.0035)Ala+(-0.0161)Arg+(-0.0007)Val+(0.0334)Orn;0.779,0.802,0.726,0.697,0.730,0.807,0.735,0.742,(5.9808)+(0.0023)Gly+(-0.1352)His+(0.0172)Thr+(-0.0313)Cit+(-0.0198)Val+(0.0444)Leu;0.779,0.814,0.731,0.703,0.748,0.782,0.736,0.742,(4.7949)+(-0.1498)His+(0.0195)Thr+(-0.0279)Cit+(-0.0138)Arg+(-0.0000)Pro+(0.0776)Phe;0.779,0.811,0.735,0.704,0.735,0.805,0.765,0.752,(5.4731)+(-0.0221)Asn+(0.0051)Gly+(-0.1299)His+(-0.0059)Arg+(-0.0009)Pro+(0.0503)Ile;0.779,0.808,0.787,0.799,0.730,0.841,0.834,0.801,(4.9056)+(-0.0395)Asn+(-0.0082)Ala+(-0.0157)Arg+(-0.0293)Tyr+(0.1751)Ile+(-0.0849)Leu;0.779,0.810,0.731,0.701,0.745,0.799,0.731,0.744,(5.9553)+(-0.0490)Asn+(0.00

27)Gly+(-0.1386)His+(0.0146)Thr+(0.0236)Orn+(0.0106)Leu;0.779,0.819,0.798,0.801,0.792,0.791,0.807,0.798,(5.9133)+(-0.0004)Gly+(-0.0053)Tyr+(-0.0228)Val+(-0.0010)Lys+(0.0474)Leu+(-0.1471)Trp;0.779,0.818,0.791,0.807,0.804,0.808,0.707,0.782,(5.9953)+(0.0124)Thr+(-0.0227)Arg+(-0.0045)Val+(0.0230)Orn+(0.0008)Lys+(-0.1466)Trp;0.779,0.816,0.815,0.836,0.814,0.829,0.750,0.807,(5.1963)+(0.0041)Gln+(0.0144)Thr+(-0.0044)Ala+(-0.0212)Arg+(0.0009)Lys+(-0.1502)Trp;0.779,0.818,0.813,0.833,0.801,0.826,0.776,0.809,(5.0404)+(0.0033)Gln+(0.0107)Thr+(-0.0045)Ala+(-0.0059)Tyr+(-0.0027)Lys+(-0.1461)Trp;0.779,0.808,0.783,0.803,0.720,0.844,0.819,0.796,(2.7908)+(0.0040)Gln+(-0.0089)Ala+(-0.0277)Arg+(-0.0348)Tyr+(0.1835)Ile+(-0.0914)Leu;0.779,0.808,0.736,0.735,0.681,0.796,0.812,0.756,(1.5110)+(0.0004)Gln+(-0.0351)Arg+(-0.0455)Val+(0.1921)Ile+(-0.0463)Leu+(0.0479)Phe;0.779,0.820,0.790,0.806,0.795,0.802,0.726,0.782,(6.1411)+(-0.0162)Arg+(0.0066)Pro+(-0.0135)Tyr+(-0.0047)Val+(0.0269)Orn+(-0.1338)Trp;0.779,0.818,0.775,0.767,0.785,0.773,0.780,0.776,(4.8872)+(0.0003)Gly+(-0.0173)Arg+(-0.0009)Pro+(0.0096)Orn+(0.0504)Ile+(-0.1643)Trp;0.779,0.814,0.748,0.731,0.756,0.812,0.731,0.758,(6.5697)+(-0.0509)Asn+(0.0017)Gly+(-0.1235)His+(0.0143)Thr+(-0.0030)Val+(0.0310)Orn;0.779,0.812,0.782,0.789,0.743,0.830,0.809,0.793,(2.0858)+(-0.0389)Asn+(0.0053)Gln+(-0.0142)Tyr+(-0.2130)Met+(0.1629)Ile+(-0.0795)Leu;0.779,0.806,0.746,0.751,0.692,0.817,0.794,0.764,(4.3375)+(-0.0489)Cit+(-0.0147)Arg+(-0.0364)Tyr+(-0.0371)Val+(0.1887)Ile+(-0.0404)Leu;0.779,0.811,0.797,0.797,0.782,0.848,0.792,0.805,(4.5259)+(0.0007)Gly+(0.0099)Gln+(-0.1339)His+(-0.0025)Ala+(-0.0365)Cit+(-0.0022)Tyr;0.779,0.807,0.732,0.727,0.675,0.802,0.814,0.755,(1.5921)+(0.0079)Thr+(-0.0378)Arg+(-0.0035)Pro+(-0.0614)Val+(0.1664)Ile+(0.0403)Phe;0.779,0.815,0.750,0.711,0.770,0.806,0.769,0.764,(5.0060)+(-0.0361)Asn+(-0.1266)His+(-0.0618)Cit+(0.0009)Arg+(0.0410)Orn+(0.0659)Phe;0.779,0.822,0.810,0

.816,0.786,0.864,0.808,0.818,(3.7282)+(-0.1187)Asn+(0.0058)Gln+(0.033
0)Thr+(-0.0528)Val+(-0.2679)Met+(0.0870)Leu;0.779,0.819,0.726,0.699,0
.721,0.805,0.751,0.744,(-1.2874)+(0.0554)Ser+(-0.0065)Gly+(-0.3093)Me
t+(0.0076)Orn+(-0.0132)Lys+(0.0694)Ile;0.779,0.808,0.773,0.746,0.792,
0.841,0.759,0.784,(7.1384)+(-0.1016)His+(-0.0039)Ala+(-0.0718)Cit+(-0
.0601)Met+(0.0572)Orn+(0.0023)Lys;0.779,0.821,0.777,0.767,0.784,0.779
,0.786,0.779,(5.0792)+(0.0003)Gly+(-0.0147)Arg+(0.0113)Orn+(-0.0052)L
ys+(0.0523)Ile+(-0.1598)Trp;0.779,0.818,0.814,0.821,0.811,0.820,0.799
,0.813,(6.5968)+(-0.0526)Asn+(-0.0042)Ala+(-0.0018)Tyr+(0.0243)Orn+(0
.0095)Leu+(-0.1353)Trp;0.779,0.811,0.730,0.708,0.735,0.786,0.738,0.74
2,(4.0518)+(0.0056)Gly+(-0.1460)His+(-0.0118)Arg+(0.0021)Pro+(-0.0004
)Lys+(0.0820)Phe;0.779,0.816,0.818,0.837,0.812,0.826,0.774,0.812,(4.9
482)+(0.0043)Gln+(-0.0045)Ala+(-0.0181)Arg+(-0.0031)Tyr+(0.0250)Orn+(
-0.1409)Trp;0.779,0.819,0.720,0.717,0.715,0.744,0.722,0.725,(-4.0392)
+(0.0575)Ser+(-0.0063)Gly+(0.0099)Pro+(-0.4200)Met+(-0.0020)Orn+(0.10
34)Phe;0.779,0.816,0.754,0.766,0.751,0.771,0.717,0.751,(-3.4463)+(0.0
551)Ser+(-0.0061)Gly+(0.0014)Gln+(-0.0182)Arg+(-0.3616)Met+(0.1070)Ph
e;0.779,0.815,0.768,0.769,0.735,0.829,0.792,0.781,(1.5462)+(-0.0008)G
ly+(0.0037)Gln+(0.0094)Thr+(-0.3005)Met+(0.1657)Ile+(-0.0802)Leu;0.77
9,0.808,0.766,0.754,0.757,0.828,0.774,0.778,(7.1762)+(-0.0413)Asn+(-0
.1151)His+(0.0178)Thr+(-0.0052)Ala+(0.0083)Pro+(-0.0002)Val;0.779,0.8
10,0.735,0.710,0.759,0.815,0.691,0.744,(6.1849)+(0.0034)Gly+(-0.1145)
His+(-0.0701)Cit+(0.0051)Pro+(-0.0248)Tyr+(0.0531)Orn;0.779,0.805,0.7
34,0.732,0.680,0.800,0.805,0.754,(4.1984)+(-0.0033)Gly+(-0.0298)Arg+(
-0.0425)Tyr+(-0.0558)Val+(0.0346)Orn+(0.1626)Ile;0.779,0.811,0.741,0.
700,0.743,0.796,0.806,0.761,(4.6156)+(-0.1371)His+(-0.0352)Cit+(-0.00
15)Arg+(-0.0025)Pro+(0.0376)Ile+(0.0548)Phe;0.779,0.809,0.793,0.796,0
.784,0.843,0.771,0.799,(4.4177)+(0.0006)Gly+(0.0112)Gln+(-0.1394)His+

(-0.0248)Cit+(-0.0138)Arg+(-0.0055)Tyr;0.779,0.811,0.798,0.798,0.781,0.847,0.797,0.806,(4.5479)+(0.0100)Gln+(-0.1343)His+(-0.0025)Ala+(-0.0355)Cit+(-0.0034)Tyr+(0.0007)Lys;0.779,0.806,0.726,0.708,0.730,0.786,0.725,0.737,(6.3141)+(0.0012)Gly+(-0.1399)His+(0.0193)Thr+(-0.0244)Tyr+(-0.0034)Lys+(0.0185)Leu;0.779,0.811,0.746,0.719,0.774,0.827,0.700,0.755,(6.4797)+(-0.0361)Asn+(0.0048)Gly+(-0.1104)His+(-0.0732)Cit+(0.0537)Orn+(-0.0008)Lys;0.779,0.820,0.768,0.733,0.773,0.814,0.816,0.784,(6.2756)+(-0.1057)His+(-0.0391)Cit+(0.0106)Arg+(-0.0041)Tyr+(-0.1453)Met+(0.0639)Ile;0.779,0.817,0.817,0.825,0.823,0.826,0.777,0.813,(6.5229)+(-0.0027)Ala+(-0.0081)Arg+(0.0174)Tyr+(-0.1111)Met+(0.0291)Orn+(-0.1301)Trp;0.779,0.815,0.812,0.820,0.824,0.819,0.758,0.805,(6.4760)+(-0.0084)Arg+(0.0152)Tyr+(-0.0020)Val+(-0.1227)Met+(0.0291)Orn+(-0.1294)Trp;0.779,0.815,0.722,0.698,0.718,0.785,0.749,0.738,(-2.0937)+(0.0554)Ser+(-0.0064)Gly+(0.0002)Gln+(0.0040)Pro+(-0.3655)Met+(0.0603)Ile;0.779,0.812,0.770,0.758,0.763,0.792,0.799,0.778,(5.4459)+(-0.0418)Asn+(-0.1239)His+(-0.0078)Arg+(-0.0091)Val+(0.0057)Lys+(0.0924)Phe;0.779,0.811,0.769,0.750,0.767,0.831,0.778,0.782,(6.6591)+(-0.1063)His+(-0.0047)Ala+(0.0101)Pro+(-0.0010)Val+(-0.0867)Met+(0.0351)Orn;0.779,0.810,0.721,0.730,0.646,0.780,0.810,0.742,(0.9720)+(-0.0033)Pro+(-0.0644)Tyr+(-0.0538)Val+(0.0142)Orn+(0.1492)Ile+(0.0551)Phe;0.779,0.809,0.762,0.748,0.754,0.823,0.774,0.775,(6.8562)+(-0.0212)Asn+(-0.1095)His+(-0.0049)Ala+(0.0091)Pro+(-0.0183)Tyr+(0.0361)Orn;0.779,0.804,0.729,0.718,0.682,0.801,0.806,0.752,(1.7209)+(0.0061)Thr+(-0.0437)Cit+(-0.0294)Arg+(-0.0585)Val+(0.1592)Ile+(0.0415)Phe;0.779,0.804,0.732,0.736,0.682,0.801,0.777,0.749,(3.8554)+(-0.0316)Arg+(-0.0405)Tyr+(-0.0426)Val+(0.0306)Orn+(0.1903)Ile+(-0.0396)Leu;0.779,0.810,0.732,0.707,0.727,0.794,0.763,0.748,(5.6708)+(0.0040)Gly+(-0.1274)His+(-0.0064)Arg+(0.0006)Pro+(-0.0230)Tyr+(0.0535)Ile;0.779,0.806,0.743,0.749,0.686,0.815,

0.796,0.761,(3.7882)+(-0.0639)Cit+(-0.0013)Pro+(-0.0407)Tyr+(-0.0352)Val+(0.1855)Ile+(-0.0409)Leu;0.779,0.819,0.752,0.762,0.742,0.797,0.715,0.754,(-3.0042)+(0.0460)Ser+(-0.0036)Ala+(-0.3280)Met+(-0.0092)Lys+(0.0033)Leu+(0.1111)Phe;0.779,0.815,0.806,0.820,0.816,0.810,0.747,0.798,(6.4127)+(-0.0122)Arg+(-0.0034)Val+(-0.1164)Met+(0.0287)Orn+(0.0086)Lys+(-0.1312)Trp;0.779,0.807,0.771,0.758,0.768,0.835,0.764,0.781,(7.5730)+(-0.0415)Asn+(-0.1054)
His+(0.0195)Thr+(-0.0059)Ala+(-0.0389)Cit+(0.0092)Pro;0.779,0.807,0.753,0.744,0.741,0.818,0.754,0.764,(6.6834)+(-0.1214)His+(0.0162)Thr+(-0.0049)Ala+(0.0088)Pro+(-0.0211)Tyr+(0.0024)Val;0.779,0.815,0.748,0.747,0.725,0.817,0.747,0.759,(1.4496)+(-0.1219)Asn+(0.0077)Gly+(-0.0929)Cit+(0.1575)Ile+(-0.0949)Leu+(0.0787)Phe;0.779,0.818,0.736,0.720,0.733,0.808,0.735,0.749,(-1.3372)+(0.0487)Ser+(-0.0614)Asn+(0.0020)Gln+(-0.2747)Met+(-0.0097)Lys+(0.0673)Ile;0.779,0.816,0.728,0.714,0.728,0.794,0.721,0.739,(-1.1685)+(0.0501)Ser+(-0.0660)Asn+(-0.0062)Tyr+(-0.2832)Met+(0.0025)Orn+(0.0620)Ile;0.779,0.815,0.815,0.829,0.808,0.820,0.786,0.811,(4.6738)+(0.0042)Gln+(-0.0054)Ala+(-0.0180)Arg+(0.0212)Orn+(0.0099)Leu+(-0.1494)Trp;0.779,0.810,0.762,0.735,0.755,0.826,0.799,0.779,(6.4432)+(-0.0207)Asn+(-0.1207)His+(-0.0060)Ala+(0.0069)Pro+(0.0303)Orn+(0.0092)Leu;0.779,0.811,0.731,0.696,0.744,0.782,0.757,0.745,(4.4900)+(-0.1501)His+(0.0159)Thr+(-0.0370)Cit+(-0.0003)Pro+(-0.0005)Leu+(0.0758)Phe;0.779,0.810,0.743,0.728,0.752,0.796,0.725,0.750,(7.2643)+(-0.0401)Asn+(-0.1249)His+(0.0243)Thr+(-0.0334)Cit+(-0.0264)Tyr+(0.0171)Leu;0.779,0.807,0.765,0.752,0.755,0.825,0.776,0.777,(7.0523)+(-0.0433)Asn+(-0.1169)His+(0.0170)Thr+(-0.0053)Ala+(0.0083)Pro+(0.0024)Lys;0.779,0.823,0.724,0.699,0.749,0.811,0.674,0.733,(-0.8082)+(0.0446)Ser+(-0.0915)Cit+(-0.0054)Tyr+(-0.3242)Met+(0.0219)Orn+(0.0634)Ile;0.779,0.816,0.806,0.809,0.792,0.816,0.820,0.810,(6.2539)+(0.0005)Gly+(

-0.0040)Ala+(-0.0067)Arg+(-0.0224)Val+(0.0517)Leu+(-0.1419)Trp;0.779,0.815,0.785,0.782,0.786,0.868,0.734,0.793,(2.4045)+(0.0341)Ser+(-0.1460)Asn+(0.0030)Gln+(-0.0082)Ala+(-0.1166)Cit+(0.0518)Orn;0.779,0.814,0.693,0.698,0.618,0.771,0.778,0.716,(-0.8245)+(0.0176)Ser+(-0.0679)Tyr+(-0.0518)Val+(0.0062)Orn+(0.1413)Ile+(0.0578)Phe;0.779,0.810,0.734,0.744,0.654,0.777,0.845,0.755,(1.8964)+(-0.0039)Gly+(-0.0015)Pro+(-0.0659)Tyr+(-0.0536)Val+(0.1517)Ile+(0.0602)Phe;0.779,0.826,0.770,0.762,0.762,0.847,0.750,0.780,(3.8744)+(0.0200)Thr+(-0.0688)Cit+(-0.0083)Arg+(-0.2656)Met+(0.1673)Ile+(-0.0775)Leu;0.779,0.820,0.773,0.769,0.776,0.778,0.777,0.775,(5.3517)+(-0.0132)Arg+(-0.0174)Tyr+(0.0138)Orn+(-0.0042)Lys+(0.0536)Ile+(-0.1533)Trp;0.779,0.807,0.743,0.743,0.691,0.815,0.800,0.762,(4.2385)+(-0.0628)Cit+(-0.0361)Tyr+(-0.0361)Val+(-0.0065)Lys+(0.1827)Ile+(-0.0355)Leu;0.779,0.824,0.771,0.762,0.779,0.789,0.765,0.774,(5.1706)+(0.0144)Thr+(-0.0191)Arg+(-0.0020)Pro+(-0.0072)Lys+(0.0570)Ile+(-0.1663)Trp;0.779,0.820,0.719,0.743,0.740,0.762,0.579,0.706,(-3.1109)+(0.0426)Ser+(0.0221)Thr+(-0.0253)Arg+(-0.0262)Tyr+(-0.3924)Met+(0.1256)Phe;0.779,0.820,0.797,0.816,0.808,0.805,0.718,0.787,(4.8284)+(0.0032)Gln+(0.0105)Thr+(-0.0241)Arg+(0.0170)Orn+(-0.0018)Lys+(-0.1556)Trp;0.779,0.816,0.724,0.710,0.721,0.788,0.719,0.735,(-1.1166)+(0.0503)Ser+(-0.0648)Asn+(0.0040)Pro+(-0.0085)Tyr+(-0.2899)Met+(0.0585)Ile;0.779,0.814,0.785,0.796,0.790,0.776,0.751,0.778,(5.6685)+(-0.0031)Gly+(0.0105)Thr+(-0.0242)Tyr+(0.0151)Orn+(0.0062)Leu+(-0.1536)Trp;0.779,0.807,0.721,0.711,0.673,0.800,0.795,0.745,(1.5282)+(0.0050)Thr+(-0.0409)Arg+(-0.0623)Val+(0.0205)Orn+(0.1610)Ile+(0.0334)Phe;0.779,0.815,0.739,0.731,0.738,0.801,0.718,0.747,(-1.5250)+(0.0491)Ser+(-0.0654)Asn+(0.0023)Gln+(-0.0121)Arg+(-0.2870)Met+(0.0619)Ile;0.779,0.816,0.725,0.712,0.732,0.791,0.700,0.734,(-1.0694)+(0.0516)Ser+(-0.0551)Asn+(-0.0115)Arg+(0.0041)Pro+(-0.2966)Met+(0.0588)Ile;0.779,0.811,

0.744,0.712,0.755,0.819,0.750,0.759,(6.5615)+(-0.1133)His+(-0.0604)Cit+(-0.0209)Tyr+(-0.0207)Val+(0.0556)Orn+(0.0404)Leu;0.779,0.819,0.805,0.807,0.797,0.846,0.790,0.810,(3.9910)+(0.0123)Gln+(-0.1417)His+(-0.0181)Arg+(0.0078)Tyr+(-0.1167)Met+(0.0089)Lys;0.779,0.820,0.835,0.856,0.830,0.824,0.800,0.827,(5.2324)+(-0.0827)Asn+(0.0070)Gln+(-0.0129)Arg+(-0.0031)Tyr+(0.0067)Lys+(-0.1413)Trp;0.779,0.818,0.725,0.704,0.728,0.805,0.717,0.739,(-0.9240)+(0.0501)Ser+(-0.0551)Asn+(-0.2701)Met+(0.0064)Orn+(-0.0102)Lys+(0.0665)Ile;0.779,0.811,0.821,0.838,0.815,0.816,0.793,0.816,(7.0258)+(-0.0588)Asn+(0.0008)Gly+(-0.0025)Ala+(-0.0007)Val+(0.0078)Lys+(-0.1331)Trp;0.779,0.823,0.732,0.726,0.711,0.839,0.711,0.747,(0.5470)+(0.0385)Ser+(0.0116)Pro+(-0.0451)Val+(-0.3381)Met+(0.0212)Orn+(0.0719)Leu;0.779,0.816,0.773,0.774,0.754,0.832,0.770,0.782,(0.3579)+(0.0474)Ser+(-0.1555)Asn+(-0.0014)Gly+(-0.0083)Ala+(-0.0799)Cit+(0.0812)Phe;0.779,0.812,0.711,0.693,0.717,0.787,0.693,0.722,(-2.1012)+(0.0452)Ser+(-0.0004)Gln+(0.0083)Thr+(-0.3833)Met+(-0.0069)Orn+(0.0693)Ile;0.779,0.821,0.729,0.743,0.725,0.744,0.692,0.726,(-3.2125)+(0.0506)Ser+(-0.0076)Gly+(0.0165)Thr+(-0.0294)Tyr+(-0.3894)Met+(0.1144)Phe;0.779,0.814,0.769,0.776,0.732,0.826,0.785,0.780,(4.9387)+(-0.0572)Asn+(-0.0682)Cit+(-0.0401)Tyr+(-0.0000)Lys+(0.1583)Ile+(-0.0805)Leu;0.779,0.813,0.744,0.717,0.752,0.793,0.767,0.757,(4.6398)+(-0.1397)His+(-0.0119)Arg+(0.0012)Pro+(0.0262)Orn+(-0.0060)Leu+(0.0717)Phe;0.779,0.818,0.787,0.799,0.788,0.773,0.762,0.780,(5.5892)+(-0.0018)Gly+(0.0046)Pro+(-0.0216)Tyr+(0.0178)Orn+(0.0042)Leu+(-0.1469)Trp;0.779,0.814,0.742,0.707,0.755,0.809,0.758,0.757,(4.5096)+(-0.1290)His+(-0.0626)Cit+(0.0016)Pro+(-0.0094)Val+(0.0451)Orn+(0.0791)Phe;0.779,0.813,0.740,0.738,0.657,0.849,0.841,0.771,(-0.5174)+(0.0222)Ser+(-0.0136)Ala+(0.0040)Pro+(-0.0055)Orn+(0.1672)Ile+(-0.0841)Leu;0.779,0.812,0.729,0.712,0.684,0.807,0.813,0.754,(2.1663)+(-0.0314)Arg+(-0.0587)Val+(0.0

263)Orn+(-0.0124)Lys+(0.1620)Ile+(0.0383)Phe;0.779,0.810,0.774,0.759,0.763,0.816,0.810,0.787,(5.2694)+(-0.1243)His+(-0.0044)Ala+(-0.0347)Cit+(-0.0027)Val+(0.0001)Lys+(0.0917)Phe;0.779,0.821,0.732,0.710,0.720,0.804,0.762,0.749,(-1.5807)+(0.0546)Ser+(-0.0065)Gly+(0.0012)Gln+(-0.3155)Met+(-0.0125)Lys+(0.0712)Ile;0.779,0.820,0.801,0.816,0.808,0.799,0.746,0.792,(4.5771)+(0.0036)Gln+(-0.0213)Arg+(0.0038)Pro+(0.0176)Orn+(-0.0001)Lys+(-0.1531)Trp;0.779,0.819,0.808,0.823,0.815,0.798,0.764,0.800,(4.7728)+(-0.0020)Gly+(0.0040)Gln+(-0.0211)Arg+(0.0037)Pro+(0.0180)Orn+(-0.1534)Trp;0.779,0.816,0.828,0.837,0.836,0.815,0.801,0.822,(6.9268)+(-0.0372)Asn+(0.0201)Tyr+(-0.0016)Val+(-0.1178)Met+(0.0103)Lys+(-0.1378)Trp;0.779,0.816,0.764,0.732,0.764,0.808,0.815,0.780,(6.0338)+(-0.1145)His+(0.0014)Arg+(0.0019)Pro+(-0.1616)Met+(0.0040)Lys+(0.0580)Ile;0.779,0.815,0.763,0.760,0.770,0.824,0.710,0.766,(6.6794)+(0.0016)Gly+(-0.1189)His+(0.0256)Thr+(-0.0008)Ala+(-0.1614)Met+(0.0070)Lys;0.779,0.809,0.767,0.748,0.761,0.829,0.787,0.781,(6.7765)+(-0.0274)Asn+(-0.1095)His+(-0.0052)Ala+(0.0086)Pro+(-0.0027)Val+(0.0350)Orn;0.779,0.809,0.761,0.743,0.757,0.825,0.775,0.775,(6.3664)+(0.0048)Gly+(-0.1137)His+(-0.0050)Ala+(0.0103)Pro+(-0.1099)Met+(0.0196)Leu;0.779,0.807,0.720,0.731,0.643,0.776,0.815,0.741,(1.0501)+(0.0023)Thr+(-0.0026)Pro+(-0.0650)Tyr+(-0.0533)Val+(0.1505)Ile+(0.0586)Phe;0.779,0.811,0.729,0.735,0.655,0.776,0.836,0.751,(1.8988)+(-0.0052)Gly+(-0.0699)Tyr+(-0.0544)Val+(0.0182)Orn+(0.1479)Ile+(0.0554)Phe;0.779,0.820,0.716,0.729,0.728,0.752,0.634,0.711,(-3.8638)+(0.0440)Ser+(-0.0006)Gln+(0.0132)Thr+(-0.4305)Met+(-0.0029)Orn+(0.1117)Phe;0.779,0.810,0.748,0.723,0.775,0.829,0.702,0.757,(6.6199)+(-0.0392)Asn+(0.0046)Gly+(-0.1069)His+(-0.0729)Cit+(-0.0022)Val+(0.0552)Orn;0.779,0.816,0.770,0.760,0.785,0.833,0.719,0.775,(7.3813)+(-0.1127)His+(0.0295)Thr+(-0.0023)Ala+(-0.0374)Cit+(0.0059)Val+(-0.1452)Met;0.779,0.812,0.743,0.722,0.755,0.8

08,0.728,0.753,(6.3792)+(-0.0471)Asn+(0.0020)Gly+(-0.1287)His+(0.0141)Thr+(0.0287)Orn+(-0.0007)Lys;0.779,0.820,0.806,0.820,0.796,0.812,0.786,0.803,(6.3137)+(-0.0062)Ala+(-0.0132)Arg+(0.0115)Pro+(-0.0039)Tyr+(0.0059)Lys+(-0.1390)Trp;0.779,0.819,0.835,0.856,0.829,0.837,0.793,0.829,(4.8520)+(0.0066)Gln+(-0.0017)Ala+(-0.0079)Arg+(0.0026)Val+(-0.1129)Met+(-0.1350)Trp;0.779,0.814,0.778,0.801,0.749,0.826,0.744,0.780,(0.3635)+(0.0473)Ser+(-0.1692)Asn+(-0.0040)Ala+(-0.0167)Arg+(-0.0169)Val+(0.1050)Phe;0.778,0.812,0.768,0.751,0.772,0.836,0.753,0.778,(6.6039)+(-0.0100)Asn+(0.0026)Gly+(-0.1136)His+(-0.0022)Ala+(-0.0583)Met+(0.0380)Orn;0.778,0.810,0.775,0.760,0.765,0.815,0.808,0.787,(5.3403)+(-0.1237)His+(-0.0043)Ala+(-0.0329)Cit+(-0.0023)Arg+(-0.0029)Val+(0.0926)Phe;0.778,0.820,0.724,0.730,0.740,0.775,0.637,0.721,(-3.4176)+(0.0436)Ser+(0.0159)Thr+(-0.4024)Met+(-0.0123)Lys+(0.0011)Leu+(0.1162)Phe;0.778,0.812,0.767,0.747,0.762,0.830,0.782,0.780,(6.3937)+(-0.1119)His+(-0.0050)Ala+(0.0103)Pro+(-0.1058)Met+(0.0314)Orn+(0.0065)Lys;0.778,0.810,0.738,0.727,0.682,0.805,0.832,0.762,(2.1951)+(0.0002)Gly+(-0.0273)Arg+(-0.0574)Val+(-0.0103)Lys+(0.1627)Ile+(0.0436)Phe;0.778,0.805,0.750,0.736,0.740,0.823,0.756,0.764,(6.2425)+(0.0017)Gly+(-0.1264)His+(0.0126)Thr+(-0.0055)Ala+(0.0079)Pro+(0.0018)Val;0.778,0.807,0.762,0.738,0.764,0.826,0.773,0.775,(7.2197)+(-0.0381)Asn+(-0.1228)His+(0.0223)Thr+(-0.0050)Ala+(-0.0390)Cit+(0.0185)Leu;0.778,0.815,0.765,0.755,0.756,0.842,0.753,0.776,(4.0034)+(-0.0918)Cit+(-0.0203)Tyr+(-0.1784)Met+(0.0377)Orn+(0.1630)Ile+(-0.0817)Leu;0.778,0.823,0.734,0.710,0.745,0.802,0.723,0.745,(-0.8563)+(0.0521)Ser+(-0.0036)Gly+(-0.0692)Cit+(-0.0020)Tyr+(-0.3268)Met+(0.0691)Ile;0.778,0.811,0.744,0.698,0.761,0.819,0.777,0.764,(5.8915)+(-0.0220)Asn+(-0.1223)His+(-0.0601)Cit+(-0.0029)Pro+(0.0405)Orn+(0.0408)Ile;0.778,0.810,0.768,0.740,0.771,0.832,0.789,0.783,(6.5125)+(0.0077)Asn+(-0.1219)His+(-0.0033)Ala+(-0.0910)Met

+(0.0339)Orn+(0.0163)Leu;0.778,0.817,0.750,0.755,0.742,0.776,0.737,0.752,(-3.1994)+(0.0550)Ser+(-0.0065)Gly+(0.0009)Gln+(-0.3476)Met+(-0.0102)Lys+(0.1091)Phe;0.778,0.817,0.765,0.762,0.784,0.835,0.681,0.766,(7.4149)+(-0.0173)Asn+(0.0027)Gly+(-0.1065)His+(0.0286)Thr+(-0.0364)Cit+(-0.1339)Met;0.778,0.811,0.741,0.708,0.756,0.804,0.750,0.755,(6.3823)+(-0.0397)Asn+(-0.1367)His+(0.0170)Thr+(0.0254)Orn+(-0.0045)Lys+(0.0111)Leu;0.778,0.820,0.796,0.815,0.805,0.796,0.727,0.786,(4.8287)+(0.0035)Gln+(0.0111)Thr+(-0.0235)Arg+(0.0041)Pro+(-0.0005)Lys+(-0.1579)Trp;0.778,0.819,0.801,0.810,0.803,0.788,0.779,0.795,(6.6494)+(-0.0554)Asn+(0.0007)Gly+(0.0059)Pro+(-0.0082)Tyr+(0.0073)Leu+(-0.1388)Trp;0.778,0.817,0.823,0.837,0.825,0.812,0.788,0.816,(4.4051)+(0.0062)Gln+(-0.0104)Arg+(-0.1522)Met+(0.0049)Lys+(0.0125)Leu+(-0.1447)Trp;0.778,0.814,0.742,0.700,0.749,0.807,0.789,0.761,(5.7949)+(-0.0116)Asn+(-0.1300)His+(-0.0060)Arg+(0.0255)Orn+(-0.0037)Lys+(0.0413)Ile;0.778,0.808,0.773,0.745,0.788,0.843,0.768,0.786,(7.2662)+(-0.0253)Asn+(-0.1007)His+(-0.0048)Ala+(-0.0776)Cit+(0.

0033)Arg+(0.0585)Orn;0.778,0.816,0.745,0.702,0.769,0.812,0.761,0.761,(4.8717)+(-0.1288)His+(-0.0697)Cit+(0.0026)Arg+(0.0462)Orn+(-0.0096)Lys+(0.0714)Phe;0.778,0.813,0.727,0.709,0.741,0.795,0.699,0.736,(6.6056)+(-0.1379)His+(0.0200)Thr+(-0.0159)Arg+(-0.0333)Tyr+(0.0316)Orn+(0.0122)Leu;0.778,0.811,0.765,0.732,0.773,0.809,0.805,0.780,(6.3275)+(-0.1070)His+(-0.0299)Cit+(0.0019)Pro+(-0.1536)Met+(0.0040)Lys+(0.0581)Ile;0.778,0.810,0.744,0.773,0.693,0.776,0.755,0.749,(1.5691)+(-0.0293)Arg+(-0.0019)Pro+(-0.0718)Tyr+(0.1779)Ile+(-0.1071)Leu+(0.0932)Phe;0.778,0.818,0.755,0.798,0.736,0.783,0.662,0.745,(-0.0727)+(0.0474)Ser+(-0.1497)Asn+(-0.0185)Arg+(-0.0576)Tyr+(-0.0157)Leu+(0.1114)Phe;0.778,0.818,0.791,0.799,0.786,0.807,0.768,0.790,(5.3685)+(0.0098)Thr+(-0.0057)Ala+(-0.0110)Tyr+(0.0157)Orn+(0.0116)Leu+(-0.1517)Trp;0.778,0.810,

0.768,0.778,0.700,0.826,0.839,0.786,(3.3540)+(-0.0027)Gly+(-0.0096)Al
a+(-0.0440)Tyr+(0.0144)Orn+(0.1688)Ile+(-0.0850)Leu;0.778,0.820,0.809
,0.832,0.811,0.810,0.744,0.799,(4.8042)+(0.0038)Gln+(-0.0214)Arg+(-0.
0041)Val+(0.0231)Orn+(0.0018)Lys+(-0.1456)Trp;0.778,0.818,0.800,0.808
,0.808,0.784,0.772,0.793,(6.2548)+(-0.0071)Arg+(0.0086)Pro+(-0.1521)M
et+(0.0082)Lys+(0.0080)Leu+(-0.1410)Trp;0.778,0.814,0.825,0.834,0.829
,0.820,0.795,0.820,(6.2092)+(0.0010)Gly+(-0.0020)Ala+(0.0246)Tyr+(-0.
1411)Met+(0.0084)Lys+(-0.1398)Trp;0.778,0.809,0.764,0.734,0.772,0.840
,0.772,0.779,(6.7302)+(-0.1050)His+(-0.0077)Ala+(-0.0777)Cit+(0.0002)
Arg+(0.0094)Pro+(0.0544)Orn;0.778,0.809,0.744,0.739,0.745,0.802,0.716
,0.750,(7.0319)+(-0.0444)Asn+(0.0015)Gly+(-0.1175)His+(0.0192)Thr+(0.
0061)Pro+(-0.0229)Tyr;0.778,0.804,0.729,0.726,0.675,0.805,0.796,0.751
,(3.6425)+(-0.0007)Gln+(0.0059)Thr+(-0.0635)Cit+(-0.0465)Tyr+(-0.0483
)Val+(0.1544)Ile;0.778,0.821,0.814,0.814,0.807,0.816,0.829,0.817,(7.1
508)+(-0.0616)Asn+(-0.0017)Arg+(0.0055)Tyr+(-0.0263)Val+(0.0529)Leu+(
-0.1337)Trp;0.778,0.818,0.811,0.825,0.812,0.804,0.778,0.805,(7.2670)+
(-0.0507)Asn+(-0.0046)Arg+(0.0078)Pro+(-0.0035)Tyr+(-0.0027)Val+(-0.1
283)Trp;0.778,0.811,0.799,0.784,0.783,0.845,0.841,0.813,(1.6895)+(0.0
062)Gln+(-0.0118)Ala+(-0.0907)Cit+(0.0097)Pro+(-0.2383)Met+(0.0674)Il
e;0.778,0.810,0.786,0.779,0.760,0.803,0.845,0.797,(-0.8717)+(0.0037)G
ln+(-0.0100)Ala+(0.0087)Pro+(-0.3293)Met+(0.0475)Ile+(0.0705)Phe;0.77
8,0.805,0.751,0.739,0.739,0.824,0.757,0.765,(6.2840)+(0.0016)Gly+(-0.
1245)His+(0.0124)Thr+(-0.0053)Ala+(0.0083)Pro+(0.0008)Lys;0.778,0.818
,0.747,0.753,0.750,0.773,0.708,0.746,(-3.1308)+(0.0560)Ser+(-0.0061)G
ly+(-0.0186)Arg+(-0.3591)Met+(0.0097)Orn+(0.1043)Phe;0.778,0.817,0.77
3,0.767,0.795,0.869,0.675,0.776,(2.5724)+(0.0327)Ser+(-0.0059)Ala+(-0
.1144)Cit+(-0.1577)Met+(0.0575)Orn+(-0.0106)Lys;0.778,0.811,0.804,0.8
07,0.791,0.853,0.791,0.810,(4.5881)+(0.0113)Gln+(-0.1358)His+(-0.0020

)Ala+(-0.0262)Cit+(-0.0127)Arg+(-0.0016)Tyr;0.778,0.809,0.735,0.719,0.742,0.794,0.723,0.744,(4.1773)+(0.0063)Gly+(-0.1369)His+(-0.0351)Cit+(-0.0070)Arg+(-0.0045)Val+(0.0969)Phe;0.778,0.815,0.726,0.707,0.725,0.789,0.732,0.738,(-1.5393)+(0.0565)Ser+(-0.0060)Gly+(-0.0138)Arg+(0.0047)Pro+(-0.3448)Met+(0.0600)Ile;0.778,0.815,0.750,0.711,0.771,0.807,0.767,0.764,(5.0301)+(-0.0352)Asn+(-0.1265)His+(-0.0613)Cit+(-0.0003)Pro+(0.0412)Orn+(0.0662)Phe;0.778,0.819,0.775,0.772,0.774,0.775,0.784,0.776,(5.2805)+(0.0002)Gly+(-0.0130)Arg+(0.0008)Pro+(-0.0165)Tyr+(0.0543)Ile+(-0.1575)Trp;0.778,0.818,0.775,0.750,0.786,0.845,0.767,0.787,(3.1823)+(0.0209)Thr+(-0.0105)Ala+(-0.1103)Cit+(-0.2542)Met+(0.0294)Orn+(0.0654)Ile;0.778,0.822,0.751,0.777,0.734,0.790,0.689,0.748,(-2.8127)+(0.0402)Ser+(-0.0161)Tyr+(-0.0143)Val+(-0.3326)Met+(0.0160)Orn+(0.1307)Phe;0.778,0.817,0.756,0.769,0.754,0.777,0.712,0.753,(-2.9235)+(0.0559)Ser+(-0.0059)Gly+(-0.0173)Arg+(-0.3472)Met+(-0.0051)Leu+(0.1125)Phe;0.778,0.816,0.812,0.812,0.816,0.819,0.797,0.811,(5.9698)+(-0.0036)Ala+(0.0171)Tyr+(-0.1351)Met+(0.0219)Orn+(0.0138)Leu+(-0.1386)Trp;0.778,0.814,0.815,0.833,0.805,0.821,0.787,0.811,(4.7811)+(0.0033)Gln+(-0.0047)Ala+(-0.0062)Tyr+(0.0212)Orn+(-0.0021)Lys+(-0.1408)Trp;0.778,0.809,0.729,0.708,0.739,0.789,0.719,0.739,(4.0240)+(0.0066)Gly+(-0.1415)His+(-0.0379)Cit+(-0.0062)Arg+(0.0001)Leu+(0.0884)Phe;0.778,0.821,0.745,0.741,0.757,0.838,0.665,0.750,(1.8110)+(0.0328)Ser+(0.0235)Thr+(-0.0589)Cit+(-0.0408)Val+(-0.3566)Met+(0.0783)Leu;0.778,0.810,0.756,0.733,0.754,0.784,0.799,0.767,(5.0697)+(-0.0316)Asn+(-0.1331)His+(0.0021)Pro+(0.0001)Lys+(-0.0030)Leu+(0.0775)Phe;0.778,0.808,0.680,0.639,0.658,0.811,0.743,0.713,(1.6595)+(0.0249)Ser+(-0.0059)Gln+(-0.0857)Cit+(-0.0536)Val+(0.0372)Orn+(0.1503)Ile;0.778,0.807,0.757,0.770,0.686,0.825,0.823,0.776,(2.8725)+(-0.0108)Ala+(0.0050)Pro+(-0.0435)Tyr+(0.0097)Orn+(0.1628)Ile+(-0.0829)Leu;0.778,0.818,0.793,0.807,0.805,0.7

95,0.729,0.784,(6.5058)+(-0.0022)Gly+(0.0156)Thr+(-0.0201)Arg+(0.0055)Pro+(-0.0036)Val+(-0.1499)Trp;0.778,0.809,0.743,0.771,0.691,0.774,0.754,0.748,(1.6342)+(-0.0004)Gly+(-0.0293)Arg+(-0.0735)Tyr+(0.1746)Ile+(-0.1061)Leu+(0.0928)Phe;0.778,0.809,0.773,0.745,0.792,0.842,0.759,0.785,(7.2045)+(-0.1011)His+(-0.0041)Ala+(-0.0733)Cit+(0.0012)Val+(-0.0539)Met+(0.0579)Orn;0.778,0.803,0.727,0.727,0.674,0.803,0.785,0.747,(3.6024)+(-0.0311)Arg+(-0.0007)Pro+(-0.0391)Tyr+(-0.0554)Val+(0.0319)Orn+(0.1625)Ile;0.778,0.814,0.725,0.705,0.716,0.789,0.751,0.740,(-1.8339)+(0.0546)Ser+(-0.0064)Gly+(-0.0077)Tyr+(-0.3395)Met+(0.0011)Orn+(0.0648)Ile;0.778,0.811,0.752,0.726,0.756,0.826,0.759,0.767,(6.1143)+(0.0032)Gly+(-0.1297)His+(-0.0043)Ala+(-0.0086)Arg+(0.0331)Orn+(0.0131)Leu;0.778,0.809,0.707,0.702,0.644,0.809,0.776,0.733,(1.2555)+(0.0243)Ser+(-0.0330)Tyr+(-0.0395)Val+(-0.0153)Lys+(0.1766)Ile+(-0.0276)Leu;0.778,0.816,0.746,0.705,0.770,0.811,0.758,0.761,(4.8970)+(-0.1279)His+(-0.0674)Cit+(0.0462)Orn+(-0.0082)Lys+(-0.0028)Leu+(0.0740)Phe;0.778,0.814,0.759,0.725,0.764,0.810,0.798,0.775,(5.9888)+(0.0346)Asn+(-0.1098)His+(-0.0302)Cit+(0.0020)Pro+(-0.1762)Met+(0.0638)Ile;0.778,0.807,0.738,0.699,0.752,0.816,0.755,0.755,(6.0627)+(-0.1188)His+(-0.0585)Cit+(0.0030)Pro+(-0.0233)Val+(0.0502)Orn+(0.0404)Leu;0.778,0.807,0.749,0.742,0.748,0.803,0.728,0.755,(7.2329)+(-0.0424)Asn+(-0.1163)His+(0.0202)Thr+(0.0062)Pro+(-0.0244)Tyr+(-0.0004)Val;0.778,0.818,0.807,0.814,0.815,0.798,0.778,0.801,(6.3804)+(-0.0663)Asn+(0.0002)Gly+(0.0209)Orn+(0.0019)Lys+(0.0042)Leu+(-0.1405)Trp;0.778,0.817,0.808,0.807,0.792,0.817,0.834,0.812,(5.9873)+(-0.0045)Ala+(0.0042)Tyr+(-0.0229)Val+(-0.0005)Lys+(0.0520)Leu+(-0.1449)Trp;0.778,0.814,0.763,0.755,0.775,0.820,0.717,0.767,(7.0451)+(-0.0052)Asn+(-0.1203)His+(0.0285)Thr+(-0.0004)Tyr+(0.0036)Val+(-0.1507)Met;0.778,0.808,0.791,0.794,0.782,0.836,0.771,0.796,(4.3246)+(0.0113)Gln+(-0.1423)His+(-0.0216)Cit+(-0.0167)Arg+

(-0.0093)Tyr+(0.0043)Lys;0.778,0.806,0.746,0.725,0.747,0.822,0.744,0.759,(6.3703)+(0.0024)Gly+(-0.1380)His+(0.0189)Thr+(-0.0043)Ala+(-0.0124)Arg+(0.0177)Leu;0.778,0.822,0.735,0.754,0.728,0.775,0.668,0.731,(-3.3056)+(0.0396)Ser+(0.0151)Thr+(-0.0036)Ala+(-0.0188)Tyr+(-0.3798)Met+(0.1176)Phe;0.778,0.815,0.753,0.730,0.782,0.829,0.702,0.761,(6.5567)+(0.0042)Gly+(-0.1076)His+(-0.0715)Cit+(-0.0032)Tyr+(-0.0754)Met+(0.0551)Orn;0.778,0.814,0.807,0.811,0.794,0.813,0.820,0.809,(6.2585)+(-0.0040)Ala+(-0.0082)Arg+(-0.0223)Val+(0.0024)Lys+(0.0503)Leu+(-0.1432)Trp;0.778,0.813,0.786,0.789,0.750,0.837,0.815,0.798,(1.8092)+(-0.0361)Asn+(0.0053)Gln+(-0.0005)Pro+(-0.2400)Met+(0.1644)Ile+(-0.0806)Leu;0.778,0.812,0.723,0.676,0.744,0.808,0.742,0.743,(5.3266)+(-0.1365)His+(0.0121)Thr+(-0.0525)Cit+(-0.0079)Arg+(0.0323)Orn+(0.0381)Ile;0.778,0.808,0.731,0.704,0.743,0.804,0.723,0.744,(5.7692)+(0.0014)Gly+(-0.1369)His+(0.0103)Thr+(0.0024)Pro+(0.0274)Orn+(-0.0033)Lys;0.778,0.804,0.725,0.725,0.673,0.801,0.782,0.745,(3.7542)+(-0.0004)Gln+(-0.0306)Arg+(-0.0394)Tyr+(-0.0555)Val+(0.0322)Orn+(0.1622)Ile;0.778,0.810,0.758,0.741,0.757,0.825,0.755,0.770,(6.3961)+(0.0018)Gly+(-0.1222)His+(-0.0029)Ala+(-0.0122)Tyr+(0.0012)Val+(0.0370)Orn;0.778,0.808,0.769,0.734,0.783,0.841,0.778,0.784,(7.0140)+(-0.0190)Asn+(-0.1084)His+(-0.0058)Ala+(-0.0735)Cit+(0.0544)Orn+(0.0114)Leu;0.778,0.811,0.754,0.726,0.780,0.829,0.719,0.763,(7.1211)+(-0.0527)Asn+(-0.1098)His+(0.0151)Thr+(-0.0665)Cit+(-0.0041)Val+(0.0500)Orn;0.778,0.808,0.766,0.755,0.764,0.830,0.754,0.776,(7.4409)+(-0.0340)Asn+(-0.1148)His+(0.0206)Thr+(-0.0050)Ala+(-0.0112)Arg+(0.0082)Pro;0.778,0.802,0.756,0.737,0.744,0.826,0.781,0.772,(6.3676)+(-0.0222)Asn+(0.0042)Gly+(-0.1202)His+(-0.0058)Ala+(0.0083)Pro+(0.0149)Leu;0.778,0.822,0.792,0.800,0.801,0.788,0.757,0.787,(4.3832)+(0.0023)Gln+(0.0065)Thr+(0.0114)Orn+(-0.0078)Lys+(0.0081)Leu+(-0.1590)Trp;0.778,0.816,0.729,0.712,0.732,0.803,0.713,0.740,(-0.8

001)+(0.0509)Ser+(-0.0485)Asn+(-0.0077)Arg+(-0.2682)Met+(-0.0082)Lys+(0.0683)Ile;0.778,0.816,0.791,0.794,0.746,0.851,0.834,0.806,(4.3128)+(-0.0075)Ala+(-0.0120)Arg+(-0.0066)Tyr+(-0.1595)Met+(0.1817)Ile+(-0.0820)Leu;0.778,0.820,0.799,0.814,0.806,0.795,0.748,0.791,(4.4898)+(0.0036)Gln+(-0.0213)Arg+(0.0035)Pro+(0.0165)Orn+(0.0030)Leu+(-0.1559)Trp;0.778,0.819,0.781,0.791,0.800,0.786,0.712,0.772,(5.5552)+(0.0112)Thr+(-0.0228)Arg+(0.0031)Pro+(0.0159)Orn+(0.0035)Leu+(-0.1581)Trp;0.778,0.818,0.787,0.802,0.802,0.794,0.709,0.777,(6.0761)+(0.0133)Thr+(-0.0215)Arg+(0.0057)Pro+(-0.0038)Val+(0.0022)Lys+(-0.1502)Trp;0.778,0.817,0.747,0.749,0.741,0.774,0.733,0.749,(-2.9990)+(0.0562)Ser+(-0.0064)Gly+(-0.3458)Met+(-0.0101)Lys+(0.0008)Leu+(0.1093)Phe;0.778,0.813,0.822,0.837,0.824,0.812,0.787,0.815,(7.2093)+(-0.0351)Asn+(-0.0012)Ala+(-0.0054)Arg+(-0.0767)Met+(0.0114)Lys+(-0.1329)Trp;0.778,0.812,0.751,0.718,0.783,0.827,0.717,0.761,(7.0519)+(-0.0427)Asn+(-0.1141)His+(0.0160)Thr+(-0.0680)Cit+(0.0492)Orn+(-0.0048)Lys;0.778,0.820,0.723,0.739,0.732,0.755,0.638,0.716,(-3.8951)+(0.0425)Ser+(0.0129)Thr+(-0.4248)Met+(-0.0020)Orn+(-0.0041)Leu+(0.1145)Phe;0.778,0.813,0.820,0.835,0.808,0.819,0.804,0.816,(4.9467)+(-0.0024)Gly+(0.0036)Gln+(-0.0046)Ala+(-0.0092)Tyr+(0.0209)Orn+(-0.1421)Trp;0.778,0.809,0.745,0.716,0.740,0.787,0.803,0.761,(4.9514)+(-0.1321)His+(-0.0267)Cit+(0.0032)Pro+(-0.0191)Val+(0.0278)Leu+(0.0760)Phe;0.778,0.821,0.730,0.710,0.745,0.808,0.698,0.740,(-1.3769)+(0.0454)Ser+(0.0016)Gln+(-0.0780)Cit+(0.0002)Tyr+(-0.3405)Met+(0.0701)Ile;0.778,0.817,0.724,0.702,0.728,0.799,0.720,0.737,(-0.9459)+(0.0508)Ser+(-0.0530)Asn+(0.0034)Pro+(-0.2825)Met+(-0.0093)Lys+(0.0644)Ile;0.778,0.812,0

.759,0.727,0.764,0.809,0.801,0.775,(5.9661)+(0.0327)Asn+(-0.1124)His+(-0.0300)Cit+(-0.1768)Met+(0.0029)Lys+(0.0645)Ile;0.778,0.812,0.741,0.731,0.755,0.804,0.694,0.746,(6.9322)+(-0.1273)His+(0.0186)Thr+(-0.01

73)Arg+(-0.0269)Tyr+(-0.0006)Val+(0.0365)Orn;0.778,0.811,0.798,0.801,0.731,0.866,0.879,0.819,(2.7952)+(-0.0946)Asn+(0.0039)Gln+(-0.0107)Ala+(0.0037)Pro+(0.1585)Ile+(-0.0820)Leu;0.778,0.809,0.737,0.712,0.749,0.809,0.727,0.749,(5.9670)+(0.0011)Gly+(-0.1351)His+(0.0110)Thr+(-0.0012)Val+(0.0297)Orn+(-0.0027)Lys;0.778,0.819,0.794,0.810,0.807,0.794,0.723,0.783,(4.6286)+(0.0031)Gln+(0.0100)Thr+(-0.0249)Arg+(0.0145)Orn+(0.0045)Leu+(-0.1612)Trp;0.778,0.813,0.749,0.727,0.758,0.809,0.744,0.760,(6.6669)+(-0.0518)Asn+(-0.1204)His+(0.0143)Thr+(0.0037)Pro+(-0.0049)Val+(0.0303)Orn;0.778,0.809,0.769,0.750,0.768,0.830,0.776,0.781,(6.8096)+(-0.1063)His+(-0.0048)Ala+(-0.0055)Arg+(0.0099)Pro+(-0.0803)Met+(0.0360)Orn;0.778,0.821,0.748,0.734,0.723,0.824,0.784,0.766,(0.9787)+(0.0511)Ser+(-0.0074)Gly+(0.0133)Pro+(-0.0410)Val+(-0.3267)Met+(0.0679)Leu;0.778,0.810,0.757,0.737,0.756,0.828,0.762,0.771,(6.1058)+(0.0022)Gly+(-0.1260)His+(-0.0035)Ala+(0.0005)Val+(0.0341)Orn+(0.0014)Lys;0.778,0.807,0.726,0.691,0.732,0.804,0.747,0.743,(5.0989)+(0.0057)Gly+(-0.1284)His+(-0.0426)Cit+(-0.0016)Arg+(-0.0014)Pro+(0.0537)Ile;0.778,0.806,0.742,0.747,0.685,0.813,0.794,0.760,(3.7842)+(-0.0000)Gly+(-0.0641)Cit+(-0.0418)Tyr+(-0.0353)Val+(0.1835)Ile+(-0.0403)Leu;0.778,0.820,0.757,0.749,0.736,0.841,0.761,0.772,(1.2861)+(0.0421)Ser+(-0.0075)Gly+(0.0224)Thr+(-0.0450)Val+(-0.3637)Met+(0.0820)Leu;0.778,0.808,0.737,0.710,0.750,0.806,0.735,0.750,(5.9930)+(-0.1331)His+(0.0108)Thr+(0.0028)Pro+(-0.0024)Val+(0.0291)Orn+(-0.0027)Lys;0.778,0.820,0.711,0.727,0.714,0.748,0.638,0.707,(-3.5462)+(0.0501)Ser+(-0.0197)Arg+(0.0114)Pro+(-0.0263)Tyr+(-0.3684)Met+(0.1184)Phe;0.778,0.819,0.802,0.813,0.804,0.785,0.786,0.797,(6.6558)+(-0.0615)Asn+(0.0060)Pro+(-0.0105)Tyr+(0.0048)Lys+(0.0048)Leu+(-0.1407)Trp;0.778,0.807,0.689,0.660,0.640,0.809,0.781,0.722,(1.4754)+(0.0346)Ser+(-0.0041)Gln+(-0.0042)Thr+(-0.0504)Val+(-0.0184)Lys+(0.1624)Ile;0.778,0.820,0.789,0.792,0.800,0.779

,0.765,0.784,(5.5852)+(-0.0022)Gly+(0.0110)Thr+(0.0025)Pro+(-0.0059)Lys+(0.0083)Leu+(-0.1594)Trp;0.778,0.817,0.706,0.714,0.710,0.741,0.651,0.704,(-3.9053)+(0.0483)Ser+(-0.0008)Gln+(0.0107)Pro+(-0.4135)Met+(-0.0090)Leu+(0.1150)Phe;0.778,0.807,0.754,0.731,0.755,0.821,0.764,0.768,(6.7477)+(-0.1361)His+(0.0208)Thr+(-0.0043)Ala+(-0.0107)Arg+(-0.0019)Lys+(0.0176)Leu;0.778,0.808,0.731,0.698,0.731,0.803,0.765,0.749,(5.2895)+(0.0046)Gly+(-0.1333)His+(-0.0070)Arg+(-0.0011)Pro+(-0.0019)Lys+(0.0515)Ile;0.778,0.817,0.806,0.807,0.817,0.796,0.787,0.802,(6.3322)+(-0.0032)Arg+(0.0075)Pro+(0.0133)Tyr+(-0.1559)Met+(0.0117)Leu+(-0.1393)Trp;0.778,0.814,0.750,0.736,0.709,0.836,0.812,0.773,(0.5545)+(0.0431)Ser+(-0.1583)Asn+(-0.0057)Gly+(0.0022)Gln+(0.1395)Ile+(-0.0773)Leu;0.778,0.811,0.764,0.746,0.765,0.831,0.760,0.776,(6.5881)+(-0.0268)Asn+(0.0026)Gly+(-0.1170)His+(-0.0031)Ala+(-0.0002)Val+(0.0367)Orn;0.778,0.822,0.743,0.739,0.732,0.857,0.694,0.755,(0.7940)+(0.0317)Ser+(0.0170)Thr+(-0.0479)Val+(-0.3582)Met+(0.0196)Orn+(0.0830)Leu;0.778,0.815,0.768,0.767,0.781,0.841,0.689,0.769,(7.3237)+(0.0024)Gly+(-0.1071)His+(0.0281)Thr+(-0.0012)Ala+(-0.0368)Cit+(-0.1376)Met;0.778,0.810,0.786,0.785,0.775,0.836,0.774,0.792,(4.3880)+(0.0005)Gly+(0.0098)Gln+(-0.1381)His+(-0.0347)Cit+(-0.0081)Tyr+(0.0000)Lys;0.778,0.815,0.747,0.716,0.760,0.810,0.753,0.760,(4.7239)+(-0.1267)His+(-0.0585)Cit+(-0.0059)Arg+(-0.0094)Val+(0.0460)Orn+(0.0818)Phe;0.778,0.814,0.761,0.747,0.749,0.821,0.783,0.775,(2.5342)+(-0.1073)Asn+(-0.1026)Cit+(0.0351)Orn+(0.1433)Ile+(-0.0936)Leu+(0.0612)Phe;0.778,0.800,0.763,0.747,0.749,0.824,0.792,0.778,(6.9495)+(-0.0346)Asn+(0.0038)Gly+(-0.1120)His+(-0.0026)Ala+(-0.0207)Val+(0.0487)Leu;0.778,0.816,0.784,0.780,0.787,0.833,0.751,0.788,(5.7864)+(-0.0824)Asn+(0.0377)Thr+(-0.0511)Cit+(-0.0470)Val+(-0.2641)Met+(0.0822)Leu;0.778,0.815,0.767,0.759,0.775,0.828,0.729,0.773,(7.0345)+(-0.1205)His+(0.0281)Thr+(-0.0016)Ala+(0.0015)Tyr+(0.00

45)Val+(-0.1486)Met;0.778,0.810,0.753,0.727,0.773,0.815,0.732,0.762,(7.0476)+(-0.0234)Asn+(-0.1044)His+(-0.0657)Cit+(0.0050)Pro+(-0.0266)Tyr+(0.0548)Orn;0.778,0.819,0.833,0.850,0.828,0.821,0.807,0.826,(5.1026)+(-0.0756)Asn+(0.0070)Gln+(-0.0098)Arg+(-0.0042)Tyr+(0.0086)Leu+(-0.1431)Trp;0.778,0.814,0.753,0.734,0.761,0.812,0.745,0.763,(6.7613)+(-0.0492)Asn+(-0.1226)His+(0.0150)Thr+(-0.0035)Val+(0.0314)Orn+(0.0001)Lys;0.778,0.813,0.803,0.815,0.814,0.803,0.749,0.795,(6.3139)+(-0.0001)Gly+(-0.0111)Arg+(-0.1195)Met+(0.0261)Orn+(0.0072)Lys+(-0.1348)Trp;0.778,0.812,0.810,0.821,0.807,0.822,0.775,0.806,(6.3200)+(-0.0023)Gly+(0.0145)Thr+(-0.0045)Ala+(0.0010)Val+(-0.0020)Lys+(-0.1471)Trp;0.778,0.811,0.736,0.764,0.692,0.769,0.733,0.739,(1.5203)+(-0.0330)Arg+(-0.0747)Tyr+(0.0165)Orn+(0.1717)Ile+(-0.1067)Leu+(0.0887)Phe;0.778,0.810,0.739,0.728,0.753,0.801,0.691,0.743,(6.8476)+(-0.1295)His+(0.0182)Thr+(-0.0182)Arg+(-0.0288)Tyr+(0.0354)Orn+(0.0024)Lys;0.778,0.821,0.783,0.787,0.797,0.779,0.746,0.777,(5.0730)+(0.0075)Thr+(0.0020)Pro+(0.0126)Orn+(-0.0067)Lys+(0.0070)Leu+(-0.1568)Trp;0.778,0.818,0.687,0.701,0.690,0.726,0.616,0.683,(-4.0976)+(0.0437)Ser+(0.0128)Thr+(0.0102)Pro+(-0.0303)Tyr+(-0.4329)Met+(0.1187)Phe;0.778,0.818,0.806,0.819,0.812,0.797,0.769,0.799,(6.6405)+(-0.0648)Asn+(-0.0001)Gly+(-0.0085)Tyr+(0.0239)Orn+(0.0034)Lys+(-0.1348)Trp;0.778,0.811,0.704,0.684,0.710,0.785,0.685,0.716,(-2.0773)+(0.0459)Ser+(-0.0008)Gln+(0.0061)Thr+(0.0032)Pro+(-0.3846)Met+(0.0632)Ile;0.777,0.809,0.769,0.752,0.768,0.791,0.798,0.777,(5.6069)+(-0.0373)Asn+(-0.1191)His+(-0.0284)Cit+(-0.0005)Arg+(-0.0068)Val+(0.0942)Phe;0.777,0.806,0.777,0.792,0.702,0.838,0.849,0.795,(2.8315)+(-0.0029)Gly+(0.0019)Gln+(-0.0097)Ala+(-0.0422)Tyr+(0.1719)Ile+(-0.0850)Leu;0.777,0.805,0.727,0.721,0.678,0.795,0.795,0.747,(1.5734)+(-0.0382)Arg+(-0.0475)Val+(0.0194)Orn+(0.1899)Ile+(-0.0439)Leu+(0.0424)Phe;0.777,0.821,0.725,0.703,0.743,0.803,0.690,0.735,(-0.9505)

+(0.0477)Ser+(-0.0731)Cit+(-0.0027)Arg+(0.0009)Tyr+(-0.3305)Met+(0.07
06)Ile;0.777,0.813,0.785,0.789,0.750,0.837,0.814,0.797,(1.8288)+(-0.0
355)Asn+(0.0053)Gln+(-0.2405)Met+(-0.0005)Lys+(0.1635)Ile+(-0.0802)Le
u;0.777,0.803,0.730,0.699,0.733,0.803,0.753,0.747,(6.1983)+(-0.1336)H
is+(0.0175)Thr+(-0.0280)Cit+(0.0026)Pro+(-0.0215)Val+(0.0445)Leu;0.77
7,0.818,0.793,0.804,0.812,0.795,0.726,0.784,(6.1846)+(-0.0024)Gly+(0.
0141)Thr+(-0.0214)Arg+(0.0199)Orn+(-0.0014)Lys+(-0.1535)Trp;0.777,0.8
16,0.808,0.820,0.818,0.801,0.757,0.799,(6.6535)+(-0.0599)Asn+(0.0003)
Gly+(-0.0117)Arg+(0.0246)Orn+(0.0051)Lys+(-0.1380)Trp;0.777,0.812,0.7
51,0.731,0.763,0.817,0.730,0.760,(6.1228)+(-0.0037)Asn+(0.0032)Gly+(-
0.1153)His+(0.0068)Pro+(-0.1039)Met+(0.0324)Orn;0.777,0.810,0.784,0.7
83,0.724,0.859,0.857,0.806,(3.5814)+(-0.0813)Asn+(0.0016)Gly+(-0.0099
)Ala+(0.0128)Orn+(0.1610)Ile+(-0.0824)Leu;0.777,0.810,0.763,0.749,0.7
63,0.829,0.755,0.774,(6.7410)+(-0.0245)Asn+(0.0023)Gly+(-0.1150)His+(
-0.0026)Ala+(-0.0099)Tyr+(0.0386)Orn;0.777,0.818,0.794,0.794,0.769,0.
862,0.797,0.805,(1.8446)+(0.0070)Gln+(-0.0720)Cit+(-0.0086)Arg+(-0.24
33)Met+(0.1761)Ile+(-0.0831)Leu;0.777,0.816,0.809,0.830,0.808,0.801,0
.762,0.800,(4.7430)+(0.0041)Gln+(-0.0200)Arg+(0.0060)Pro+(-0.0035)Val
+(0.0034)Lys+(-0.1497)Trp;0.777,0.815,0.803,0.824,0.812,0.808,0.725,0
.792,(5.0082)+(0.0037)Gln+(0.0126)Thr+(-0.0230)Arg+(-0.0020)Val+(0.00
05)Lys+(-0.1536)Trp;0.777,0.814,0.753,0.747,0.767,0.815,0.699,0.757,(
6.4721)+(0.0020)Gly+(-0.1250)His+(0.0261)Thr+(0.0035)Val+(-0.1734)Met
+(0.0058)Lys;0.777,0.812,0.756,0.750,0.766,0.820,0.707,0.761,(4.2788)
+(0.0327)Thr+(-0.0575)Cit+(0.0100)Pro+(-0.0441)Val+(-0.3564)Met+(0.07
32)Leu;0.777,0.810,0.773,0.749,0.787,0.841,0.759,0.784,(7.4882)+(-0.0
208)Asn+(-0.0980)His+(-0.0041)Ala+(-0.0744)Cit+(-0.0123)Tyr+(0.0606)O
rn;0.777,0.817,0.806,0.819,0.810,0.799,0.769,0.799,(7.0011)+(-0.0507)
Asn+(0.0008)Gly+(-0.0052)Arg+(0.0071)Pro+(-0.0048)Tyr+(-0.1325)Trp;0.

777,0.815,0.796,0.802,0.792,0.815,0.772,0.795,(5.7699)+(0.0147)Thr+(-0.0054)Ala+(-0.0071)Tyr+(-0.0051)Lys+(0.0166)Leu+(-0.1525)Trp;0.777,0.814,0.803,0.807,0.801,0.815,0.791,0.803,(5.9871)+(-0.0019)Gly+(0.0155)Thr+(-0.0057)Ala+(-0.0054)Lys+(0.0158)Leu+(-0.1547)Trp;0.777,0.813,0.739,0.720,0.763,0.817,0.684,0.746,(6.8832)+(-0.1189)His+(0.0164)Thr+(-0.0601)Cit+(-0.0082)Arg+(-0.0300)Tyr+(0.0511)Orn;0.777,0.811,0.739,0.729,0.683,0.806,0.833,0.763,(2.1244)+(0.0003)Gln+(-0.0276)Arg+(-0.0574)Val+(-0.0105)Lys+(0.1624)Ile+(0.0432)Phe;0.777,0.807,0.778,0.749,0.780,0.842,0.804,0.794,(3.5736)+(-0.0124)Ala+(-0.1053)Cit+(0.0095)Pro+(-0.1955)Met+(0.0369)Orn+(0.0552)Ile;0.777,0.820,0.724,0.730,0.741,0.776,0.637,0.721,(-3.3984)+(0.0433)Ser+(0.0154)Thr+(-0.3992)Met+(0.0025)Orn+(-0.0123)Lys+(0.1162)Phe;0.777,0.819,0.785,0.803,0.795,0.787,0.718,0.776,(6.6583)+(-0.0027)Gly+(0.0174)Thr+(-0.0189)Arg+(0.0061)Pro+(-0.0197)Tyr+(-0.1486)Trp;0.777,0.819,0.803,0.811,0.809,0.788,0.784,0.798,(4.7817)+(-0.0030)Gly+(0.0030)Gln+(0.0101)Thr+(-0.0075)Lys+(0.0091)Leu+(-0.1617)Trp;0.777,0.816,0.739,0.712,0.781,0.776,0.696,0.741,(0.9469)+(0.0357)Thr+(-0.0879)Cit+(-0.3933)Met+(-0.0179)Lys+(0.0546)Ile+(0.0918)Phe;0.777,0.815,0.813,0.820,0.804,0.819,0.809,0.813,(4.5043)+(0.0034)Gln+(-0.0059)Ala+(0.0174)Orn+(-0.0050)Lys+(0.0127)Leu+(-0.1495)Trp;0.777,0.807,0.758,0.735,0.751,0.824,0.785,0.774,(6.2082)+(-0.1197)His+(-0.0056)Ala+(0.0082)Pro+(-0.0018)Val+(0.0321)Orn+(0.0016)Lys;0.777,0.818,0.811,0.827,0.811,0.797,0.783,0.804,(4.8321)+(-0.0026)Gly+(0.0031)Gln+(-0.0032)Val+(0.0191)Orn+(-0.0031)Lys+(-0.1463)Trp;0.777,0.815,0.809,0.816,0.823,0.808,0.759,0.802,(6.1928)+(-0.0114)Arg+(0.0150)Tyr+(-0.1424)Met+(0.0241)Orn+(0.0073)Lys+(-0.1385)Trp;0.777,0.808,0.765,0.729,0.781,0.840,0.775,0.781,(6.8827)+(-0.1102)His+(-0.0060)Ala+(-0.0755)Cit+(0.0558)Orn+(-0.0042)Lys+(0.0136)Leu;0.777,0.807,0.752,0.733,0.752,0.828,0.750,0.766,(6.2704)+(0.0029)Gly+(-0.1186)Hi

s+(-0.0055)Ala+(-0.0110)Arg+(0.0084)Pro+(0.0341)Orn;0.777,0.807,0.802,0.815,0.783,0.795,0.813,0.802,(-0.4509)+(0.0018)Gly+(0.0046)Gln+(-0.0417)Val+(-0.3668)Met+(0.0583)Leu+(0.1106)Phe;0.777,0.808,0.764,0.772,0.744,0.844,0.727,0.772,(3.4331)+(0.0397)Ser+(-0.1135)Asn+(-0.0091)Ala+(-0.0767)Cit+(0.0161)Pro+(-0.0241)Tyr;0.777,0.820,0.699,0.704,0.709,0.736,0.638,0.697,(-4.4416)
+(0.0468)Ser+(0.0118)Thr+(0.0096)Pro+(-0.4678)Met+(-0.0100)Orn+(0.1134)Phe;0.777,0.810,0.775,0.756,0.767,0.818,0.810,0.788,(5.3285)+(-0.1252)His+(-0.0048)Ala+(-0.0356)Cit+(-0.0010)Arg+(-0.0004)Lys+(0.0880)Phe;0.777,0.809,0.762,0.731,0.773,0.833,0.768,0.776,(6.9328)+(-0.1109)His+(-0.0053)Ala+(-0.0727)Cit+(-0.0165)Tyr+(0.0561)Orn+(0.0130)Leu;0.777,0.812,0.807,0.819,0.817,0.812,0.749,0.799,(6.6206)+(-0.0004)Gly+(-0.0081)Arg+(-0.0017)Val+(-0.1000)Met+(0.0309)Orn+(-0.1262)Trp;0.777,0.810,0.736,0.711,0.690,0.814,0.844,0.765,(2.1922)+(0.0004)Gln+(-0.0688)Cit+(-0.0512)Val+(-0.0189)Lys+(0.1569)Ile+(0.0469)Phe;0.777,0.807,0.719,0.685,0.730,0.799,0.727,0.735,(5.2768)+(0.0020)Gly+(-0.1478)His+(0.0100)Thr+(0.0008)Pro+(0.0224)Orn+(0.0098)Leu;0.777,0.811,0.824,0.840,0.823,0.824,0.783,0.817,(7.3921)+(-0.0305)Asn+(0.0009)Gly+(-0.0011)Ala+(0.0005)Arg+(-0.0541)Met+(-0.1236)Trp;0.777,0.817,0.746,0.756,0.733,0.791,0.712,0.748,(-3.3331)+(0.0443)Ser+(-0.0005)Gln+(-0.0041)Ala+(-0.3493)Met+(0.0066)Orn+(0.1068)Phe;0.777,0.810,0.813,0.800,0.793,0.861,0.850,0.826,(1.9315)+(0.0074)Gln+(-0.0095)Ala+(-0.0888)Cit+(-0.2006)Met+(-0.0113)Lys+(0.0798)Ile;0.777,0.815,0.744,0.702,0.769,0.810,0.759,0.760,(4.9112)+(-0.1286)His+(-0.0671)Cit+(0.0001)Pro+(0.0457)Orn+(-0.0088)Lys+(0.0712)Phe;0.777,0.815,0.743,0.759,0.748,0.779,0.667,0.738,(-3.3850)+(0.0473)Ser+(0.0011)Gln+(-0.0153)Arg+(-0.3461)Met+(-0.0068)Lys+(0.1139)Phe;0.777,0.813,0.773,0.768,0.778,0.832,0.730,0.777,(7.3222)+(-0.0118)Asn+(-0.1134)His+(0.0281)Thr+(-0.0010)Ala+(0.0035)

Tyr+(-0.1359)Met;0.777,0.807,0.783,0.786,0.773,0.799,0.782,0.785,(1.5113)+(-0.0084)Arg+(-0.0432)Val+(-0.3135)Met+(0.0316)Orn+(0.0560)Leu+(0.1001)Phe;0.777,0.805,0.735,0.734,0.678,0.805,0.806,0.756,(3.6583)+(-0.0017)Gly+(0.0065)Thr+(-0.0620)Cit+(-0.0486)Tyr+(-0.0484)Val+(0.1540)Ile;0.777,0.817,0.807,0.831,0.803,0.801,0.754,0.797,(4.9160)+(0.0045)Gln+(-0.0168)Arg+(0.0068)Pro+(-0.0121)Tyr+(-0.0022)Val+(-0.1434)Trp;0.777,0.815,0.757,0.749,0.771,0.823,0.702,0.761,(6.7070)+(0.0020)Gly+(-0.1233)His+(0.0272)Thr+(0.0027)Tyr+(0.0042)Val+(-0.1609)Met;0.777,0.812,0.754,0.736,0.770,0.818,0.722,0.762,(7.1667)+(-0.0411)Asn+(-0.1208)His+(0.0184)Thr+(-0.0147)Arg+(-0.0039)Val+(0.0341)Orn;0.777,0.814,0.776,0.771,0.788,0.840,0.716,0.779,(7.7377)+(-0.0139)Asn+(-0.1045)His+(0.0295)Thr+(-0.0013)Ala+(-0.0336)Cit+(-0.1264)Met;0.777,0.812,0.802,0.806,0.736,0.868,0.880,0.823,(2.7147)+(-0.0934)Asn+(0.0041)Gln+(-0.0007)Thr+(-0.0098)Ala+(0.1637)Ile+(-0.0832)Leu;0.777,0.814,0.765,0.758,0.773,0.823,0.728,0.770,(6.7988)+(-0.1223)His+(0.0270)Thr+(-0.0015)Ala+(0.0038)Val+(-0.1622)Met+(0.0055)Lys;0.777,0.813,0.761,0.752,0.774,0.816,0.719,0.765,(6.8443)+(-0.0100)Asn+(-0.1212)His+(0.0275)Thr+(0.0025)Val+(-0.1641)Met+(0.0060)Lys;0.777,0.810,0.741,0.712,0.770,0.823,0.698,0.751,(6.2226)+(-0.0397)Asn+(0.0052)Gly+(-0.1122)His+(-0.0719)Cit+(0.0035)Pro+(0.0506)Orn;0.777,0.807,0.691,0.664,0.641,0.811,0.780,0.724,(1.5821)+(0.0329)Ser+(-0.0041)Gln+(-0.0032)Pro+(-0.0509)Val+(-0.0196)Lys+(0.1673)Ile;0.777,0.817,0.756,0.742,0.757,0.844,0.728,0.768,(3.1977)+(0.0040)Gly+(-0.0971)Cit+(-0.2225)Met+(0.0331)Orn+(0.1653)Ile+(-0.0813)Leu;0.777,0.814,0.776,0.771,0.745,0.823,0.823,0.791,(2.4770)+(-0.0945)Asn+(-0.0810)Cit+(-0.0059)Pro+(0.1630)Ile+(-0.0963)Leu+(0.0723)Phe;0.777,0.808,0.768,0.751,0.766,0.791,0.799,0.777,(5.5246)+(-0.0432)Asn+(-0.1198)His+(-0.0279)Cit+(-0.0077)Val+(0.0029)Lys+(0.0935)Phe;0.777,0.818,0.807,0.816,0.811,0.790,0.790,0.802,(4.5224)+(-

0.0022)Gly+(0.0032)Gln+(0.0147)Orn+(-0.0060)Lys+(0.0068)Leu+(-0.1552)Trp;0.777,0.806,0.691,0.671,0.640,0.803,0.770,0.721,(2.0396)+(0.0306)Ser+(-0.0037)Gln+(-0.0274)Tyr+(-0.0480)Val+(-0.0159)Lys+(0.1609)Ile;0.777,0.814,0.729,0.710,0.728,0.794,0.736,0.742,(-1.5630)+(0.0556)Ser+(-0.0059)Gly+(-0.0134)Arg+(-0.3339)Met+(0.0036)Orn+(0.0640)Ile;0.777,0.810,0.734,0.703,0.734,0.803,0.764,0.751,(5.4569)+(-0.0218)Asn+(0.0051)Gly+(-0.1295)His+(-0.0059)Arg+(-0.0005)Lys+(0.0495)Ile;0.777,0.814,0.769,0.764,0.775,0.822,0.729,0.772,(7.0566)+(-0.0162)Asn+(-0.1158)His+(0.0270)Thr+(-0.0010)Ala+(-0.1490)Met+(0.0070)Lys;0.777,0.807,0.731,0.707,0.740,0.803,0.725,0.744,(5.6824)+(0.0013)Gly+(-0.1354)His+(0.0089)Thr+(0.0030)Pro+(-0.0026)Val+(0.0278)Orn;0.777,0.817,0.725,0.725,0.660,0.786,0.819,0.747,(1.8567)+(-0.0571)Tyr+(-0.0513)Val+(0.0204)Orn+(-0.0157)Lys+(0.1501)Ile+(0.0590)Phe;0.777,0.814,0.761,0.758,0.772,0.819,0.706,0.764,(6.7878)+(-0.0187)Asn+(0.0019)Gly+(-0.1178)His+(0.0261)Thr+(-0.1557)Met+(0.0073)Lys;0.777,0.810,0.733,0.701,0.767,0.826,0.679,0.743,(6.1694)+(0.0031)Gly+(-0.1230)His+(0.0111)Thr+(-0.0727)Cit+(0.0505)Orn+(-0.0064)Lys;0.777,0.808,0.757,0.736,0.758,0.783,0.793,0.767,(5.2076)+(-0.0262)Asn+(-0.1318)His+(-0.0059)Arg+(0.0025)Pro+(-0.0035)Leu+(0.0789)Phe;0.777,0.812,0.758,0.766,0.754,0.805,0.708,0.758,(0.5647)+(0.0490)Ser+(-0.1742)Asn+(-0.0656)Cit+(-0.0147)Val+(-0.0074)Lys+(0.1057)Phe;0.777,0.816,0.787,0.795,0.793,0.779,0.755,0.781,(6.0643)+(-0.0028)Gly+(0.0153)Thr+(-0.0198)Tyr+(-0.0053)Lys+(0.0115)Leu+(-0.1544)Trp;0.777,0.810,0.719,0.699,0.698,0.835,0.733,0.741,(0.3034)+(0.0367)Ser+(-0.0141)Thr+(-0.0801)Cit+(-0.0149)Lys+(0.1654)Ile+(-0.0807)Leu;0.777,0.817,0.714,0.719,0.717,0.757,0.662,0.714,(-3.6642)+(0.0488)Ser+(0.0105)Pro+(-0.3908)Met+(-0.0097)Lys+(-0.0043)Leu+(0.1156)Phe;0.777,0.815,0.766,0.768,0.734,0.827,0.787,0.779,(1.4819)+(0.0036)Gln+(0.0092)Thr+(-0.3013)Met+(-0.0016)Orn+(0.1661)Ile+(-0.0799)Leu;0.7

77,0.811,0.732,0.703,0.759,0.811,0.699,0.743,(6.0720)+(0.0038)Gly+(-0.1221)His+(-0.0690)Cit+(-0.0228)Tyr+(0.0515)Orn+(0.0107)Leu;0.777,0.810,0.754,0.727,0.748,0.796,0.807,0.770,(5.1847)+(-0.1297)His+(-0.0267)Cit+(-0.0184)Val+(-0.0030)Lys+(0.0297)Leu+(0.0794)Phe;0.777,0.804,0.735,0.708,0.742,0.808,0.742,0.750,(6.6336)+(-0.1330)His+(0.0217)Thr+(-0.0195)Cit+(-0.0111)Arg+(-0.0221)Val+(0.0466)Leu;0.777,0.814,0.796,0.804,0.800,0.811,0.754,0.792,(6.1005)+(0.0177)Thr+(-0.0054)Ala+(-0.0166)Arg+(-0.0016)Lys+(0.0150)Leu+(-0.1550)Trp;0.777,0.813,0.746,0.719,0.747,0.810,0.768,0.761,(6.5503)+(-0.1208)His+(-0.0085)Arg+(-0.0161)Tyr+(-0.0230)Val+(0.0413)Orn+(0.0441)Leu;0.777,0.813,0.737,0.714,0.750,0.803,0.725,0.748,(6.1763)+(-0.0490)Asn+(0.0023)Gly+(-0.1293)His+(0.0131)Thr+(0.0028)Pro+(0.0267)Orn;0.777,0.816,0.813,0.831,0.822,0.806,0.753,0.803,(5.4077)+(-0.0034)Gly+(0.0042)Gln+(0.0148)Thr+(-0.0230)Arg+(-0.0023)Val+(-0.1547)Trp;0.777,0.813,0.798,0.805,0.792,0.804,0.785,0.797,(5.8959)+(-0.0022)Gly+(0.0142)Thr+(-0.0053)Ala+(-0.0106)Tyr+(0.0139)Leu+(-0.1545)Trp;0.777,0.809,0.764,0.743,0.757,0.827,0.791,0.779,(6.5609)+(-0.0269)Asn+(-0.1159)His+(-0.0057)Ala+(0.0081)Pro+(0.0318)Orn+(0.0027)Lys;0.777,0.809,0.751,0.716,0.765,0.835,0.754,0.768,(6.3015)+(-0.1238)His+(0.0125)Thr+(-0.0065)Ala+(-0.0727)Cit+(0.0468)Orn+(0.0135)Leu;0.777,0.808,0.751,0.743,0.759,0.810,0.715,0.757,(7.5286)+(-0.0426)Asn+(-0.1098)His+(0.0217)Thr+(-0.0323)Cit+(0.0062)Pro+(-0.0249)Tyr;0.777,0.815,0.764,0.760,0.774,0.828,0.707,0.767,(7.0626)+(-0.0134)Asn+(0.0018)Gly+(-0.1154)His+(0.0273)Thr+(0.0048)Tyr+(-0.1439)Met;0.777,0.808,0.714,0.723,0.638,0.774,0.802,0.734,(0.9837)+(-0.0001)Thr+(-0.0666)Tyr+(-0.0533)Val+(0.0128)Orn+(0.1452)Ile+(0.0538)Phe;0.777,0.812,0.745,0.719,0.758,0.804,0.741,0.756,(6.4766)+(-0.0437)Asn+(-0.1284)His+(0.0146)Thr+(0.0024)Pro+(0.0276)Orn+(-0.0015)Lys;0.777,0.810,0.742,0.732,0.685,0.808,0.840,0.766,(2.2163)+(-0.0261)Arg+(-0.0028)Pr

o+(-0.0574)Val+(-0.0103)Lys+(0.1657)Ile+(0.0452)Phe;0.777,0.809,0.764,0.747,0.769,0.832,0.751,0.775,(6.7539)+(-0.0203)Asn+(0.0029)Gly+(-0.1160)His+(-0.0030)Ala+(-0.0084)Arg+(0.0388)Orn;0.777,0.816,0.803,0.816,0.810,0.788,0.768,0.795,(6.6823)+(-0.0614)Asn+(0.0010)Gly+(-0.0098)Arg+(0.0063)Pro+(0.0075)Lys+(-0.1411)Trp;0.777,0.809,0.746,0.724,0.735,0.791,0.795,0.761,(6.2594)+(-0.0096)Asn+(-0.1224)His+(0.0006)Pro+(-0.0268)Tyr+(0.0004)Lys+(0.0510)Ile;0.777,0.810,0.745,0.750,0.768,0.814,0.631,0.741,(2.2884)+(0.0425)Ser+(-0.0792)Asn+(0.0118)Thr+(-0.0722)Cit+(0.0107)Pro+(-0.2489)Met;0.777,0.818,0.730,0.707,0.725,0.807,0.747,0.747,(-1.0875)+(0.0562)Ser+(-0.0060)Gly+(-0.0085)Arg+(-0.3026)Met+(-0.0104)Lys+(0.0710)Ile;0.777,0.821,0.754,0.780,0.739,0.782,0.694,0.749,(-2.8433)+(0.0423)Ser+(0.0001)Gln+(-0.0129)Tyr+(-0.0125)Val+(-0.3364)Met+(0.1326)Phe;0.777,0.808,0.757,0.742,0.755,0.822,0.756,0.769,(6.3116)+(0.0017)Gly+(-0.1230)His+(-0.0029)Ala+(-0.0135)Tyr+(0.0366)Orn+(0.0028)Lys;0.777,0.820,0.727,0.704,0.717,0.801,0.755,0.744,(-1.2031)+(0.0556)Ser+(-0.0063)Gly+(-0.0038)Tyr+(-0.3040)Met+(-0.0118)Lys+(0.0716)Ile;0.777,0.816,0.807,0.819,0.818,0.804,0.756,0.799,(6.8838)+(-0.0522)Asn+(-0.0000)Gly+(-0.0088)Arg+(-0.0054)Tyr+(0.0282)Orn+(-0.1311)Trp;0.777,0.816,0.746,0.732,0.705,0.833,0.807,0.769,(1.0521)+(0.0444)Ser+(-0.1435)Asn+(-0.0052)Gly+(-0.0035)Pro+(0.1467)Ile+(-0.0778)Leu;0.777,0.813,0.816,0.833,0.822,0.805,0.770,0.807,(7.0226)+(-0.0369)Asn+(0.0010)Gly+(-0.0059)Arg+(-0.0860)Met+(0.0114)Lys+(-0.1341)Trp;0.777,0.813,0.745,0.717,0.761,0.814,0.735,0.757,(5.8163)+(0.0039)Gly+(-0.1237)His+(0.0055)Pro+(-0.1257)Met+(0.0279)Orn+(0.0138)Leu;0.777,0.812,0.787,0.765,0.781,0.818,0.837,0.800,(1.8158)+(-0.0115)Ala+(-0.0761)Cit+(0.0096)Pro+(-0.2564)Met+(0.0547)Ile+(0.0698)Phe;0.777,0.805,0.766,0.748,0.760,0.828,0.780,0.779,(6.7359)+(0.0041)Gly+(-0.1094)His+(-0.0015)Ala+(-0.0207)Val+(-0.1031)Met+(0.0539)Leu;0.777,0.819,0.834,0.85

5,0.831,0.826,0.794,0.827,(4.9136)+(-0.0012)Gly+(0.0068)Gln+(-0.0082)Arg+(0.0017)Val+(-0.1226)Met+(-0.1357)Trp;0.777,0.811,0.732,0.708,0.726,0.796,0.763,0.748,(5.6684)+(0.0040)Gly+(-0.1281)His+(-0.0067)Arg+(-0.0229)Tyr+(0.0007)Lys+(0.0538)Ile;0.777,0.811,0.742,0.719,0.768,0.821,0.696,0.751,(6.4378)+(0.0033)Gly+(-0.1133)His+(-0.0715)Cit+(-0.0180)Tyr+(0.0563)Orn+(-0.0011)Lys;0.777,0.811,0.741,0.717,0.767,0.819,0.696,0.750,(6.3804)+(0.0033)Gly+(-0.1145)His+(-0.0709)Cit+(-0.0190)Tyr+(0.0002)Val+(0.0555)Orn;0.777,0.821,0.717,0.724,0.727,0.759,0.645,0.714,(-3.8888)+(0.0511)Ser+(-0.0198)Arg+(0.0102)Pro+(-0.4045)Met+(0.0009)Orn+(0.1109)Phe;0.777,0.814,0.721,0.701,0.712,0.784,0.749,0.736,(-1.7529)+(0.0551)Ser+(-0.0067)Gly+(0.0046)Pro+(-0.0113)Tyr+(-0.3445)Met+(0.0600)Ile;0.777,0.814,0.767,0.765,0.774,0.832,0.713,0.771,(6.9626)+(0.0016)Gly+(-0.1164)His+(0.0268)Thr+(-0.0010)Ala+(0.0072)Tyr+(-0.1502)Met;0.777,0.812,0.709,0.692,0.713,0.783,0.694,0.720,(-2.2170)+(0.0453)Ser+(0.0076)Thr+(0.0034)
Pro+(-0.3917)Met+(-0.0082)Orn+(0.0657)Ile;0.777,0.812,0.749,0.721,0.763,0.819,0.743,0.761,(5.9540)+(0.0033)Asn+(0.0036)Gly+(-0.1272)His+(-0.1104)Met+(0.0305)Orn+(0.0162)Leu;0.777,0.808,0.741,0.728,0.748,0.796,0.721,0.748,(7.2752)+(-0.0330)Asn+(-0.1307)His+(0.0254)Thr+(-0.0106)Arg+(-0.0262)Tyr+(0.0161)Leu;0.777,0.804,0.731,0.730,0.676,0.806,0.797,0.752,(3.4018)+(0.0053)Thr+(-0.0645)Cit+(-0.0006)Pro+(-0.0465)Tyr+(-0.0480)Val+(0.1540)Ile;0.777,0.816,0.808,0.831,0.812,0.799,0.747,0.797,(5.5312)+(-0.0039)Gly+(0.0045)Gln+(0.0165)Thr+(-0.0220)Arg+(-0.0167)Tyr+(-0.1524)Trp;0.777,0.808,0.785,0.753,0.791,0.857,0.803,0.801,(4.3151)+(-0.0103)Ala+(-0.1093)Cit+(-0.1397)Met+(0.0473)Orn+(-0.0138)Lys+(0.0652)Ile;0.777,0.807,0.792,0.802,0.780,0.790,0.793,0.791,(2.2832)+(-0.0717)Asn+(0.0045)Gly+(-0.0441)Val+(-0.2662)Met+(0.0621)Leu+(0.1126)Phe;0.777,0.806,0.761,0.776,0.687,0.827,0.830,0.780,(2.6543)+(0.

0009)Gln+(-0.0109)Ala+(0.0054)Pro+(-0.0422)Tyr+(0.1647)Ile+(-0.0828)L
eu;0.777,0.809,0.762,0.739,0.758,0.825,0.785,0.777,(6.7596)+(-0.0156)
Asn+(-0.1224)His+(-0.0036)Ala+(-0.0161)Tyr+(0.0359)Orn+(0.0129)Leu;0.
777,0.815,0.807,0.819,0.797,0.811,0.798,0.806,(4.4697)+(0.0031)Gln+(-
0.0056)Ala+(-0.0081)Tyr+(0.0166)Orn+(0.0108)Leu+(-0.1502)Trp;0.777,0.
815,0.743,0.711,0.752,0.794,0.773,0.758,(4.7169)+(-0.1404)His+(-0.009
5)Arg+(0.0007)Pro+(0.0261)Orn+(-0.0033)Lys+(0.0675)Phe;0.777,0.811,0.
763,0.748,0.765,0.832,0.750,0.774,(6.2452)+(0.0027)Gly+(-0.1190)His+(
-0.0022)Ala+(-0.0853)Met+(0.0349)Orn+(0.0061)Lys;0.777,0.809,0.782,0.
770,0.767,0.815,0.824,0.794,(0.6226)+(0.0038)Gly+(-0.0079)Ala+(-0.278
3)Met+(-0.0116)Lys+(0.0623)Ile+(0.0757)Phe;0.777,0.806,0.736,0.711,0.
745,0.800,0.735,0.748,(6.3545)+(-0.0435)Asn+(0.0029)Gly+(-0.1372)His+
(0.0186)Thr+(-0.0025)Lys+(0.0155)Leu;0.777,0.820,0.778,0.769,0.786,0.
780,0.787,0.780,(5.1368)+(-0.0143)Arg+(-0.0011)Pro+(0.0119)Orn+(-0.00
53)Lys+(0.0533)Ile+(-0.1593)Trp;0.777,0.816,0.803,0.812,0.811,0.794,0
.771,0.797,(6.5409)+(-0.0595)Asn+(-0.0000)Gly+(-0.0090)Tyr+(0.0233)Or
n+(0.0058)Leu+(-0.1365)Trp;0.776,0.810,0.762,0.733,0.788,0.828,0.739,
0.772,(6.8475)+(-0.1007)His+(-0.0640)Cit+(0.0063)Pro+(-0.0029)Val+(-0
.0959)Met+(0.0528)Orn;0.776,0.810,0.738,0.706,0.752,0.799,0.749,0.752
,(6.2140)+(-0.0448)Asn+(-0.1370)His+(0.0154)Thr+(0.0009)Pro+(0.0239)O
rn+(0.0087)Leu;0.776,0.813,0.796,0.812,0.799,0.790,0.750,0.788,(6.347
4)+(-0.0030)Gly+(0.0143)Thr+(-0.0154)Tyr+(-0.0008)Val+(-0.0020)Lys+(-
0.1467)Trp;0.776,0.811,0.802,0.820,0.807,0.818,0.730,0.794,(6.4203)+(
0.0168)Thr+(-0.0041)Ala+(-0.0180)Arg+(0.0006)Val+(0.0020)Lys+(-0.1473
)Trp;0.776,0.819,0.754,0.777,0.746,0.791,0.685,0.750,(-2.8484)+(0.046
3)Ser+(-0.0033)Ala+(-0.0171)Arg+(-0.0138)Tyr+(-0.3101)Met+(0.1168)Phe
;0.776,0.812,0.774,0.752,0.768,0.822,0.813,0.789,(5.3605)+(-0.1259)Hi
s+(-0.0052)Ala+(-0.0372)Cit+(-0.0017)Lys+(0.0051)Leu+(0.0835)Phe;0.77

6,0.809,0.758,0.730,0.775,0.839,0.738,0.770,(6.6204)+(-0.1160)His+(0.0115)Thr+(-0.0054)Ala+(-0.0744)Cit+(0.0009)Val+(0.0513)Orn;0.776,0.800,0.753,0.731,0.749,0.830,0.761,0.768,(6.2547)+(0.0052)Gly+(-0.1157)His+(-0.0070)Ala+(-0.0454)Cit+(0.0094)Pro+(0.0176)Leu;0.776,0.816,0.735,0.718,0.700,0.829,0.784,0.758,(0.3831)+(0.0424)Ser+(-0.1298)Asn+(-0.0146)Thr+(0.0113)Orn+(0.1477)Ile+(-0.0800)Leu;0.776,0.805,0.733,0.722,0.683,0.812,0.809,0.757,(3.5487)+(-0.0014)Gly+(0.0121)Thr+(-0.0298)Arg+(-0.0570)Val+(-0.0109)Lys+(0.1690)Ile;0.776,0.816,0.727,0.685,0.750,0.800,0.740,0.744,(4.2194)+(-0.1446)His+(0.0113)Thr+(-0.0616)Cit+(0.0356)Orn+(-0.0052)Leu+(0.0705)Phe;0.776,0.809,0.815,0.824,0.808,0.813,0.806,0.813,(6.6045)+(-0.0535)Asn+(0.0011)Gly+(-0.0038)Ala+(0.0045)Lys+(0.0123)Leu+(-0.1402)Trp;0.776,0.808,0.789,0.790,0.770,0.812,0.810,0.795,(1.3509)+(-0.0031)Ala+(-0.0426)Val+(-0.3045)Met+(0.0296)Orn+(0.0582)Leu+(0.0991)Phe;0.776,0.812,0.802,0.804,0.815,0.799,0.772,0.797,(5.8041)+(0.0004)Gly+(0.0136)Tyr+(-0.1530)Met+(0.0202)Orn+(0.0116)Leu+(-0.1399)Trp;0.776,0.811,0.737,0.717,0.691,0.811,0.828,0.762,(2.0150)+(-0.0743)Cit+(-0.0400)Val+(-0.0159)Lys+(0.1844)Ile+(-0.0404)Leu+(0.0571)Phe;0.776,0.809,0.754,0.740,0.743,0.820,0.771,0.768,(6.3728)+(-0.1176)His+(-0.0051)Ala+(0.0090)Pro+(-0.0211)Tyr+(0.0338)Orn+(0.0030)Lys;0.776,0.817,0.792,0.796,0.802,0.777,0.772,0.787,(5.3446)+(-0.0013)Gly+(0.0030)Pro+(0.0164)Orn+(-0.0041)Lys+(0.0053)Leu+(-0.1521)Trp;0.776,0.815,0.806,0.813,0.818,0.801,0.763,0.799,(6.5967)+(-0.0542)Asn+(0.0003)Gly+(-0.0093)Arg+(0.0247)Orn+(0.0050)Leu+(-0.1380)Trp;0.776,0.813,0.819,0.828,0.828,0.809,0.783,0.812,(6.1573)+(0.0008)Gly+(0.0219)Tyr+(-0.0006)Val+(-0.1512)Met+(0.0085)Lys+(-0.1409)Trp;0.776,0.810,0.767,0.750,0.763,0.829,0.776,0.780,(6.6965)+(-0.1068)His+(-0.0046)Ala+(0.0102)Pro+(-0.0074)Tyr+(-0.0777)Met+(0.0354)Orn;0.776,0.809,0.761,0.744,0.759,0.830,0.761,0.773,(6.4417)+(-0.0313)Asn+(0.0028)Gly+(-0.

1198)His+(-0.0033)Ala+(0.0348)Orn+(0.0035)Lys;0.776,0.808,0.746,0.739
,0.745,0.796,0.729,0.752,(7.0836)+(-0.0452)Asn+(-0.1188)His+(0.0193)T
hr+(0.0060)Pro+(-0.0267)Tyr+(0.0034)Lys;0.776,0.805,0.767,0.779,0.696
,0.826,0.839,0.785,(3.4811)+(-0.0021)Gly+(-0.0107)Ala+(0.0058)Pro+(-0
.0423)Tyr+(0.1645)Ile+(-0.0826)Leu;0.776,0.817,0.778,0.799,0.791,0.78
4,0.694,0.767,(6.1464)+(0.0147)Thr+(-0.0202)Arg+(0.0061)Pro+(-0.0177)
Tyr+(0.0016)Lys+(-0.1492)Trp;0.776,0.815,0.744,0.739,0.769,0.802,0.66
0,0.743,(0.1211)+(0.0438)Ser+(-0.1864)Asn+(-0.1044)Cit+(0.0409)Orn+(-
0.0205)Leu+(0.0778)Phe;0.776,0.812,0.814,0.815,0.827,0.807,0.788,0.80
9,(6.3887)+(-0.0246)Asn+(0.0017)Gly+(0.0196)Tyr+(-0.1295)Met+(0.0149)
Leu+(-0.1395)Trp;0.776,0.810,0.821,0.837,0.821,0.821,0.780,0.815,(7.2
366)+(-0.0282)Asn+(0.0009)Gly+(-0.0015)Ala+(0.0024)Val+(-0.0589)Met+(
-0.1269)Trp;0.776,0.811,0.745,0.718,0.773,0.826,0.701,0.754,(6.4225)+
(-0.0380)Asn+(0.0048)Gly+(-0.1112)His+(-0.0734)Cit+(0.0009)Arg+(0.053
1)Orn;0.776,0.813,0.714,0.735,0.690,0.759,0.674,0.715,(-1.1167)+(0.04
94)Ser+(-0.1512)Asn+(-0.0198)Arg+(-0.0668)Tyr+(0.0298)Ile+(0.0776)Phe
;0.776,0.809,0.773,0.780,0.732,0.825,0.803,0.785,(1.7664)+(-0.0006)Gl
y+(0.0043)Gln+(-0.0124)Tyr+(-0.2499)Met+(0.1679)Ile+(-0.0812)Leu;0.77
6,0.808,0.795,0.775,0.790,0.853,0.813,0.808,(1.7158)+(0.0051)Gln+(-0.
0106)Ala+(-0.1115)Cit+(-0.2150)Met+(0.0324)Orn+(0.0642)Ile;0.776,0.81
3,0.808,0.823,0.804,0.818,0.769,0.803,(6.4795)+(-0.0025)Gly+(0.0153)T
hr+(-0.0040)Ala+(-0.0069)Tyr+(-0.0014)Lys+(-0.1444)Trp;0.776,0.805,0.
761,0.741,0.760,0.825,0.771,0.774,(6.6682)+(-0.1139)His+(-0.0053)Ala+
(-0.0100)Arg+(0.0085)Pro+(-0.0021)Val+(0.0361)Orn;0.776,0.804,0.725,0
.697,0.734,0.794,0.732,0.739,(5.8250)+(0.0022)Gly+(-0.1442)His+(0.015
1)Thr+(0.0015)Pro+(-0.0050)Lys+(0.0154)Leu;0.776,0.807,0.725,0.703,0.
737,0.786,0.717,0.736,(3.9542)+(0.0066)Gly+(-0.1417)His+(-0.0380)Cit+
(-0.0069)Arg+(0.0022)Pro+(0.0863)Phe;0.776,0.806,0.751,0.731,0.750,0.

813,0.763,0.764,(6.4381)+(0.0043)Gly+(-0.1057)His+(0.0086)Pro+(-0.0241)Val+(-0.1436)Met+(0.0539)Leu;0.776,0.814,0.733,0.736,0.664,0.786,0.832,0.754,(1.9581)+(-0.0021)Pro+(-0.0540)Tyr+(-0.0512)Val+(-0.0132)Lys+(0.1551)Ile+(0.0639)Phe;0.776,0.812,0.742,0.696,0.760,0.815,0.775,0.762,(5.7620)+(-0.0247)Asn+(-0.1221)His+(-0.0607)Cit+(0.0016)Arg+(0.0393)Orn+(0.0372)Ile;0.776,0.808,0.748,0.744,0.755,0.802,0.704,0.751,(7.5419)+(-0.0344)Asn+(-0.1159)His+(0.0234)Thr+(-0.0124)Arg+(0.0063)Pro+(-0.0251)Tyr;0.776,0.815,0.764,0.753,0.786,0.825,0.703,0.767,(7.3179)+(-0.0042)Asn+(-0.1138)His+(0.0299)Thr+(-0.0345)Cit+(0.0045)Val+(-0.1547)Met;0.776,0.814,0.788,0.795,0.809,0.787,0.727,0.779,(5.9397)+(-0.0022)Gly+(0.0135)Thr+(-0.0221)Arg+(0.0175)Orn+(0.0042)Leu+(-0.1586)Trp;0.776,0.814,0.809,0.821,0.805,0.812,0.782,0.805,(6.0378)+(-0.0013)Gly+(-0.0041)Ala+(-0.0053)Tyr+(-0.0013)Val+(0.0259)Orn+(-0.1355)Trp;0.776,0.812,0.701,0.675,0.647,0.819,0.797,0.734,(0.2566)+(0.0294)Ser+(-0.0081)Thr+(-0.0502)Val+(0.0161)Orn+(-0.0218)Lys+(0.1550)Ile;0.776,0.812,0.765,0.747,0.769,0.834,0.751,0.775,(6.4536)+(0.0026)Gly+(-0.1170)His+(-0.0024)Ala+(0.0016)Val+(-0.0683)Met+(0.0368)Orn;0.776,0.815,0.801,0.827,0.806,0.808,0.717,0.789,(5.1422)+(0.0039)Gln+(0.0140)Thr+(-0.0220)Arg+(-0.0118)Tyr+(-0.0012)Val+(-0.1499)Trp;0.776,0.813,0.803,0.819,0.799,0.820,0.755,0.798,(6.0258)+(0.0131)Thr+(-0.0043)Ala+(-0.0049)Tyr+(0.0013)Val+(-0.0017)Lys+(-0.1452)Trp;0.776,0.807,0.782,0.748,0.784,0.860,0.809,0.800,(4.6989)+(-0.0444)Asn+(-0.0120)Ala+(-0.1210)Cit+(0.0540)Orn+(-0.0178)Lys+(0.0567)Ile;0.776,0.818,0.719,0.735,0.729,0.765,0.622,0.713,(-3.0280)+(0.0413)Ser+(0.0186)Thr+(-0.0237)Tyr+(-0.3749)Met+(-0.0122)Lys+(0.1247)Phe;0.776,0.815,0.814,0.822,0.804,0.811,0.818,0.814,(4.5520)+(-0.0017)Gly+(0.0033)Gln+(-0.0059)Ala+(0.0159)Orn+(0.0100)Leu+(-0.1525)Trp;0.776,0.804,0.733,0.712,0.744,0.795,0.721,0.743,(6.8143)+(-0.1311)His+(0.0221)Thr+(-0.0340)Cit+(-0.0255)Tyr

+(-0.0044)Lys+(0.0192)Leu;0.776,0.816,0.729,0.679,0.745,0.801,0.778,0.751,(4.3366)+(-0.1377)His+(-0.0563)Cit+(-0.0030)Arg+(0.0331)Orn+(0.0276)Ile+(0.0470)Phe;0.776,0.813,0.727,0.727,0.658,0.782,0.828,0.749,(2.3590)+(-0.0013)Gln+(-0.0550)Tyr+(-0.0515)Val+(-0.0121)Lys+(0.1542)Ile+(0.0645)Phe;0.776,0.808,0.766,0.755,0.745,0.799,0.814,0.778,(-0.1089)+(0.0038)Gly+(-0.0103)Ala+(0.0094)Pro+(-0.3201)Met+(0.0496)Ile+(0.0741)Phe;0.776,0.808,0.733,0.757,0.671,0.754,0.782,0.741,(0.8330)+(-0.0032)Gly+(-0.0028)Pro+(-0.0808)Tyr+(0.1665)Ile+(-0.1013)Leu+(0.0852)Phe;0.776,0.804,0.756,0.740,0.745,0.824,0.771,0.770,(6.4782)+(-0.1252)His+(0.0138)Thr+(-0.0055)Ala+(0.0078)Pro+(0.0013)Val+(0.0001)Lys;0.776,0.815,0.809,0.827,0.804,0.799,0.779,0.802,(5.0003)+(-0.0030)Gly+(0.0032)Gln+(-0.0176)Tyr+(-0.0030)Val+(0.0207)Orn+(-0.1423)Trp;0.776,0.814,0.811,0.824,0.813,0.817,0.768,0.806,(6.4277)+(-0.0008)Gly+(-0.0039)Ala+(-0.0135)Arg+(-0.0016)Val+(0.0304)Orn+(-0.1332)Trp;0.776,0.813,0.768,0.764,0.745,0.844,0.776,0.782,(3.7960)+(0.0289)Thr+(-0.0061)Ala+(0.0136)Pro+(-0.0457)Val+(-0.3303)Met+(0.0766)Leu;0.776,0.812,0.807,0.822,0.803,0.815,0.771,0.803,(6.3410)+(-0.0025)Gly+(0.0145)Thr+(-0.0042)Ala+(-0.0078)Tyr+(0.0009)Val+(-0.1463)Trp;0.776,0.812,0.820,0.836,0.824,0.806,0.781,0.812,(7.2140)+(-0.0364)Asn+(-0.0057)Arg+(-0.0010)Val+(-0.0832)Met+(0.0118)Lys+(-0.1331)Trp;0.776,0.801,0.732,0.722,0.734,0.791,0.713,0.740,(6.4213)+(0.0008)Gly+(-0.1279)His+(0.0157)Thr+(0.0055)Pro+(-0.0252)Tyr+(0.0013)Val;0.776,0.805,0.768,0.737,0.784,0.842,0.760,0.781,(7.0044)+(-0.1061)His+(-0.0050)Ala+(-0.0756)Cit+(0.0010)Val+(0.0579)Orn+(-0.0016)Lys

;0.776,0.815,0.792,0.794,0.747,0.852,0.837,0.807,(3.9762)+(-0.0077)Ala+(-0.0155)Arg+(-0.1810)Met+(0.0060)Lys+(0.1848)Ile+(-0.0863)Leu;0.776,0.807,0.766,0.741,0.781,0.835,0.755,0.778,(7.1249)+(-0.1049)His+(-0.0044)Ala+(-0.0743)Cit+(-0.0141)Tyr+(0.0014)Val+(0.0591)Orn;0.776,0.8

16,0.817,0.836,0.816,0.804,0.779,0.809,(4.9852)+(-0.0019)Gly+(0.0047)Gln+(-0.0176)Arg+(0.0059)Pro+(-0.0028)Val+(-0.1474)Trp;0.776,0.816,0.754,0.767,0.730,0.776,0.751,0.756,(-2.8877)+(0.0525)Ser+(-0.0063)Gly+(-0.0029)Ala+(-0.0196)Tyr+(-0.3201)Met+(0.1100)Phe;0.776,0.811,0.757,0.728,0.749,0.825,0.798,0.775,(6.1393)+(-0.1257)His+(-0.0061)Ala+(0.0067)Pro+(0.0295)Orn+(-0.0012)Lys+(0.0104)Leu;0.776,0.818,0.779,0.770,0.781,0.780,0.795,0.781,(5.1205)+(0.0006)Gly+(-0.0126)Arg+(-0.0005)Pro+(-0.0041)Lys+(0.0559)Ile+(-0.1604)Trp;0.776,0.817,0.802,0.811,0.809,0.793,0.774,0.797,(6.6540)+(-0.0526)Asn+(0.0010)Gly+(-0.0060)Arg+(0.0056)Pro+(0.0069)Leu+(-0.1407)Trp;0.776,0.812,0.712,0.696,0.715,0.786,0.693,0.722,(-2.1009)+(0.0443)Ser+(0.0085)Thr+(-0.0040)Tyr+(-0.3785)Met+(-0.0070)Orn+(0.0693)Ile;0.776,0.807,0.810,0.821,0.790,0.798,0.829,0.809,(-0.2412)+(0.0052)Gln+(-0.0406)Val+(-0.3583)Met+(-0.0022)Lys+(0.0576)Leu+(0.1082)Phe;0.776,0.807,0.748,0.724,0.745,0.798,0.785,0.763,(6.4800)+(-0.0070)Asn+(-0.1145)His+(-0.0328)Cit+(0.0007)Pro+(-0.0260)Tyr+(0.0529)Ile;0.776,0.819,0.790,0.792,0.804,0.783,0.761,0.785,(5.5001)+(-0.0024)Gly+(0.0101)Thr+(0.0140)Orn+(-0.0071)Lys+(0.0074)Leu+(-0.1572)Trp;0.776,0.812,0.818,0.818,0.825,0.818,0.805,0.817,(6.0049)+(0.0016)Gly+(-0.0033)Ala+(0.0246)Tyr+(-0.1385)Met+(0.0182)Leu+(-0.1411)Trp;0.776,0.811,0.816,0.824,0.816,0.804,0.801,0.811,(6.7325)+(-0.0297)Asn+(-0.0023)Ala+(-0.0923)Met+(0.0071)Lys+(0.0141)Leu+(-0.1383)Trp;0.776,0.800,0.703,0.709,0.631,0.800,0.768,0.727,(0.8536)+(0.0173)Ser+(-0.0027)Pro+(-0.0435)Tyr+(-0.0389)Val+(0.1843)Ile+(-0.0385)Leu;0.776,0.814,0.747,0.719,0.754,0.795,0.770,0.759,(4.7231)+(-0.1390)His+(-0.0105)Arg+(0.0273)Orn+(-0.0020)Lys+(-0.0045)Leu+(0.0724)Phe;0.776,0.811,0.774,0.752,0.766,0.819,0.813,0.788,(5.2924)+(-0.1269)His+(-0.0052)Ala+(-0.0365)Cit+(-0.0005)Arg+(0.0043)Leu+(0.0830)Phe;0.776,0.811,0.707,0.690,0.648,0.817,0.796,0.738,(0.3036)+(0.0308)Ser+(-0.0098)Thr+

(-0.0407)Val+(-0.0168)Lys+(0.1784)Ile+(-0.0302)Leu;0.776,0.816,0.764,0.735,0.762,0.808,0.814,0.780,(6.1668)+(-0.1149)His+(0.0015)Arg+(-0.0062)Tyr+(-0.1475)Met+(0.0042)Lys+(0.0605)Ile;0.776,0.813,0.748,0.729,0.758,0.814,0.728,0.757,(5.8074)+(0.0034)Gly+(-0.1203)His+(0.0071)Pro+(-0.1267)Met+(0.0291)Orn+(0.0064)Lys;0.776,0.812,0.759,0.754,0.770,0.822,0.704,0.763,(6.5538)+(0.0018)Gly+(-0.1209)His+(0.0256)Thr+(0.0045)Tyr+(-0.1741)Met+(0.0067)Lys;0.776,0.812,0.766,0.736,0.771,0.811,0.804,0.780,(6.5527)+(-0.1032)His+(-0.0301)Cit+(0.0021)Pro+(-0.0059)Tyr+(-0.1338)Met+(0.0599)Ile;0.776,0.818,0.749,0.762,0.734,0.793,0.713,0.751,(-3.4029)+(0.0434)Ser+(-0.0039)Ala+(-0.3488)Met+(0.0067)Orn+(-0.0021)Leu+(0.1082)Phe;0.776,0.814,0.767,0.761,0.780,0.830,0.711,0.771,(7.4142)+(-0.1186)His+(0.0307)Thr+(-0.0014)Ala+(-0.0105)Arg+(0.0042)Val+(-0.1397)Met;0.776,0.811,0.813,0.821,0.814,0.810,0.792,0.809,(6.7042)+(-0.0245)Asn+(0.0014)Gly+(-0.0025)Ala+(-0.0815)Met+(0.0177)Leu+(-0.1339)Trp;0.776,0.813,0.824,0.833,0.833,0.821,0.785,0.818,(6.9507)+(-0.0283)Asn+(0.0013)Gly+(0.0215)Tyr+(0.0008)Val+(-0.1024)Met+(-0.1320)Trp;0.776,0.801,0.756,0.736,0.741,0.822,0.791,0.773,(6.3242)+(0.0031)Gly+(-0.1232)His+(-0.0033)Ala+(-0.0176)Val+(0.0014)Lys+(0.0438)Leu;0.776,0.810,0.728,0.703,0.687,0.814,0.819,0.756,(1.8965)+(0.0027)Gly+(-0.0736)Cit+(-0.0508)Val+(-0.0196)Lys+(0.1571)Ile+(0.0495)Phe;0.776,0.809,0.758,0.733,0.776,0.840,0.731,0.770,(6.8067)+(-0.1148)His+(0.0131)Thr+(-0.0051)Ala+(-0.0693)Cit+(-0.0058)Arg+(0.0512)Orn;0.776,0.807,0.767,0.742,0.781,0.836,0.752,0.778,(7.1423)+(-0.1035)His+(-0.0042)Ala+(-0.0741)Cit+(-0.0133)Tyr+(0.0598)Orn+(0.0001)Lys;0.776,0.816,0.796,0.813,0.793,0.783,0.766,0.789,(6.0076)+(-0.0013)Gly+(0.0070)Pro+(-0.0149)Tyr+(-0.0027)Val+(0.0023)Lys+(-0.1409)Trp;0.776,0.809,0.741,0.770,0.690,0.773,0.749,0.745,(1.5309)+(-0.0301)Arg+(-0.0735)Tyr+(0.0007)Lys+(0.1751)Ile+(-0.1068)Leu+(0.0928)Phe;0.776,0.806,0.704,0.691,0.64

0,0.791,0.813,0.734,(2.2153)+(0.0364)Ser+(-0.0096)Gly+(-0.0036)Gln+(-0.0453)Tyr+(-0.0503)Val+(0.1561)Ile;0.776,0.818,0.710,0.727,0.719,0.747,0.620,0.703,(-3.4943)+(0.0421)Ser+(-0.0008)Gln+(0.0150)Thr+(-0.0234)Tyr+(-0.4019)Met+(0.1181)Phe;0.776,0.812,0.769,0.746,0.775,0.848,0.760,0.782,(2.7486)+(0.0057)Gly+(-0.0108)Ala+(-0.1168)Cit+(-0.1940)Met+(0.0379)Orn+(0.0666)Ile;0.776,0.804,0.752,0.724,0.750,0.824,0.777,0.769,(6.4887)+(-0.1253)His+(0.0167)Thr+(-0.0071)Ala+(-0.0418)Cit+(0.0071)Pro+(0.0165)Leu;0.776,0.811,0.764,0.763,0.784,0.858,0.658,0.766,(3.7508)+(0.0362)Ser+(-0.1373)Asn+(-0.1026)Cit+(-0.0100)Val+(0.0597)Orn+(-0.0091)Lys;0.776,0.803,0.733,0.725,0.676,0.798,0.824,0.756,(1.9296)+(0.0001)Gly+(-0.0005)Gln+(-0.0325)Arg+(-0.0599)Val+(0.1609)Ile+(0.0388)Phe;0.776,0.806,0.718,0.700,0.701,0.839,0.717,0.739,(0.7321)+(0.0308)Ser+(-0.0881)Cit+(-0.0055)Pro+(-0.0196)Lys+(0.1664)Ile+(-0.0772)Leu;0.776,0.803,0.725,0.704,0.734,0.789,0.715,0.736,(6.5137)+(-0.1310)His+(0.0196)Thr+(-0.0333)Cit+(0.0038)Pro+(-0.0310)Tyr+(0.0156)Leu;0.776,0.807,0.728,0.706,0.735,0.796,0.725,0.741,(5.8545)+(0.0022)Gly+(-0.1317)His+(0.0040)Pro+(-0.0256)Tyr+(0.0313)Orn+(0.0099)Leu;0.776,0.807,0.761,0.735,0.766,0.790,0.798,0.772,(5.3971)+(-0.0284)Asn+(-0.1273)His+(-0.0322)Cit+(0.0009)Arg+(-0.0011)Lys+(0.0807)Phe;0.776,0.807,0.708,0.688,0.648,0.823,0.803,0.741,(0.4621)+(0.0296)Ser+(-0.0050)Thr+(-0.0039)Pro+(-0.0496)Val+(-0.0204)Lys+(0.1623)Ile;0.776,0.814,0.727,0.707,0.717,0.789,0.756,0.742,(-1.9373)+(0.0543)Ser+(-0.0065)Gly+(0.0004)Gln+(-0.0074)Tyr+(-0.3416)Met+(0.0650)Ile;0.776,0.814,0.788,0.801,0.796,0.785,0.737,0.780,(6.1560)+(-0.0013)Gly+(-0.0152)Arg+(0.0056)Pro+(-0.0164)Tyr+(0.0241)Orn+(-0.1403)Trp;0.776,0.814,0.811,0.833,0.807,0.793,0.773,0.801,(5.0266)+(-0.0022)Gly+(0.0050)Gln+(-0.0163)Arg+(0.0064)Pro+(-0.0151)Tyr+(-0.1460)Trp;0.776,0.808,0.815,0.831,0.816,0.809,0.778,0.808,(6.4586)+(0.0003)Gly+(-0.0015)Ala+(0.0011)Val+(-0.1065)M

et+(0.0083)Lys+(-0.1355)Trp;0.776,0.808,0.760,0.742,0.766,0.828,0.748,0.771,(6.5082)+(0.0026)Gly+(-0.1209)His+(-0.0032)Ala+(-0.0101)Arg+(0.0003)Val+(0.0381)Orn;0.776,0.807,0.746,0.724,0.736,0.792,0.793,0.761,(6.3382)+(-0.0063)Asn+(-0.1215)His+(-0.0030)Arg+(0.0007)Pro+(-0.0262)Tyr+(0.0512)Ile;0.776,0.806,0.756,0.730,0.760,0.824,0.769,0.771,(6.8920)+(-0.1276)His+(0.0210)Thr+(-0.0052)Ala+(-0.0401)Cit+(-0.0056)Lys+(0.0215)Leu;0.776,0.810,0.772,0.774,0.736,0.827,0.803,0.785,(1.5304)+(-0.0002)Gly+(0.0041)Gln+(-0.2730)Met+(0.0032)Orn+(0.1675)Ile+(-0.0820)Leu;0.776,0.813,0.739,0.727,0.697,0.833,0.789,0.762,(0.5278)+(0.0422)Ser+(-0.1267)Asn+(-0.0120)Thr+(-0.0026)Pro+(0.1541)Ile+(-0.0797)Leu;0.776,0.813,0.752,0.734,0.762,0.820,0.731,0.762,(6.1429)+(0.0029)Gly+(-0.1137)His+(0.0072)Pro+(-0.0015)Val+(-0.1054)Met+(0.0334)Orn;0.776,0.811,0.691,0.713,0.631,0.745,0.719,0.702,(-2.0905)+(0.0212)Ser+(-0.0843)Tyr+(-0.0067)Orn+(0.1615)Ile+(-0.0988)Leu+(0.0883)Phe;0.776,0.807,0.764,0.774,0.696,0.826,0.833,0.782,(2.9905)+(-0.0052)Thr+(-0.0096)Ala+(-0.0387)Tyr+(0.0148)Orn+(0.1707)Ile+(-0.0856)Leu;0.776,0.819,0.816,0.837,0.817,0.808,0.767,0.807,(5.0720)+(-0.0024)Gly+(0.0043)Gln+(-0.0202)Arg+(-0.0040)Val+(0.0243)Orn+(-0.1442)Trp;0.776,0.806,0.741,0.719,0.759,0.811,0.712,0.750,(6.5348)+(-0.1312)His+(0.0151)Thr+(-0.0172)Arg+(-0.0029)Val+(0.0324)Orn+(0.0007)Lys;0.776,0.813,0.740,0.743,0.734,0.760,0.729,0.741,(-3.6010)+(0.0544)Ser+(-0.0063)Gly+(-0.0000)Gln+(-0.3798)Met+(0.0049)Orn+(0.1015)Phe;0.776,0.817,0.729,0.718,0.732,0.791,0.706,0.737,(-0.9610)+(0.0508)Ser+(-0.0567)Asn+(-0.0103)Arg+(-0.0045)Tyr+(-0.2769)Met+(0.0636)Ile;0.776,0.815,0.726,0.725,0.678,0.798,0.781,0.745,(1.1800)+(0.0388)Ser+(-0.0100)Gly+(-0.0517)Tyr+(-0.0141)Lys+(0.1512)Ile+(-0.0736)Leu;0.776,0.818,0.782,0.794,0.786,0.778,0.748,0.777,(5.3914)+(0.0043)Pro+(-0.0190)Tyr+(0.0177)Orn+(-0.0029)Lys+(0.0060)Leu+(-0.1461)Trp;0.776,0.818,0.802,0.817,0.798,0.785,0.783,0.79

6,(4.6917)+(-0.0027)Gly+(0.0032)Gln+(-0.0207)Tyr+(0.0159)Orn+(0.0054)Leu+(-0.1515)Trp;0.776,0.806,0.752,0.746,0.738,0.819,0.750,0.763,(6.6433)+(-0.1197)His+(0.0152)Thr+(-0.0048)Ala+(0.0093)Pro+(-0.0207)Tyr+(0.0021)Lys;0.776,0.813,0.748,0.757,0.738,0.764,0.734,0.748,(-3.5090)+(0.0536)Ser+(-0.0062)Gly+(0.0004)Gln+(-0.3718)Met+(-0.0042)Leu+(0.1070)Phe;0.776,0.807,0.762,0.737,0.767,0.789,0.796,0.772,(5.3915)+(-0.0296)Asn+(-0.1271)His+(-0.0314)Cit+(0.0001)Arg+(-0.0016)Leu+(0.0819)Phe;0.776,0.801,0.759,0.735,0.740,0.820,0.816,0.778,(6.5567)+(-0.1164)His+(-0.0053)Ala+(0.0088)Pro+(-0.0199)Val+(0.0014)Lys+(0.0428)Leu;0.776,0.817,0.767,0.766,0.759,0.838,0.737,0.775,(2.9820)+(0.0465)Ser+(-0.1006)Asn+(-0.0465)Cit+(-0.0386)Val+(-0.1838)Met+(0.0730)Leu;0.776,0.816,0.726,0.682,0.747,0.802,0.743,0.743,(4.2414)+(-0.1472)His+(0.0121)Thr+(-0.0607)Cit+(-0.0018)Pro+(0.0347)Orn+(0.0660)Phe;0.776,0.807,0.705,0.694,0.645,0.815,0.782,0.734,(1.1838)+(0.0256)Ser+(-0.0020)Pro+(-0.0288)Tyr+(-0.0474)Val+(-0.0179)Lys+(0.1590)Ile;0.776,0.807,0.736,0.728,0.689,0.799,0.808,0.756,(1.6888)+(-0.0516)Cit+(-0.0246)Arg+(-0.0421)Val+(0.1919)Ile+(-0.0495)Leu+(0.0553)Phe;0.776,0.807,0.746,0.722,0.765,0.814,0.723,0.756,(6.7182)+(-0.1084)His+(-0.0656)Cit+(0.0054)Pro+(-0.0266)Tyr+(-0.0022)Val+(0.0551)Orn;0.776,0.807,0.768,0.779,0.717,0.833,0.798,0.782,(4.0441)+(-0.0088)Ala+(-0.0265)Arg+(-0.0376)Tyr+(0.0245)Orn+(0.1778)Ile+(-0.0907)Leu;0.776,0.805,0.768,0.738,0.783,0.843,0.761,0.782,(6.9814)+(-0.1052)His+(-0.0049)Ala+(-0.0771)Cit+(0.0019)Arg+(0.0586)Orn+(-0.0018)Lys;0.776,0.816,0.753,0.754,0.732,0.860,0.718,0.766,(1.1145)+(0.0320)Ser+(0.0210)Thr+(-0.0025)Ala+(-0.0442)Val+(-0.3466)Met+(0.0834)Leu;0.776,0.810,0.743,0.724,0.761,0.817,0.704,0.751,(6.6774)+(-0.0398)Asn+(0.0024)Gly+(-0.1280)His+(0.0171)Thr+(-0.0147)Arg+(0.0307)Orn;0.776,0.808,0.732,0.690,0.765,0.819,0.713,0.747,(6.3296)+(-0.1295)His+(0.0148)Thr+(-0.0668)Cit+(0.0459)Orn+(-0.0103)Lys+(0

.0118)Leu;0.776,0.816,0.806,0.819,0.817,0.792,0.756,0.796,(4.9898)+(-0.0030)Gly+(0.0039)Gln+(0.0136)Thr+(-0.0235)Arg+(0.0062)Leu+(-0.1641)Trp;0.776,0.816,0.746,0.752,0.739,0.764,0.730,0.746,(-3.4329)+(0.0534)Ser+(-0.0064)Gly+(-0.3708)Met+(0.0067)Orn+(-0.0052)Leu+(0.1054)Phe;0.776,0.814,0.737,0.739,0.666,

0.784,0.846,0.759,(2.4163)+(-0.0028)Gly+(-0.0578)Tyr+(-0.0514)Val+(-0.0121)Lys+(0.1536)Ile+(0.0643)Phe;0.776,0.805,0.768,0.774,0.758,0.774,0.769,0.769,(1.0469)+(0.0033)Gly+(0.0102)Pro+(-0.0417)Val+(-0.3666)Met+(0.0544)Leu+(0.1093)Phe;0.775,0.812,0.742,0.737,0.729,0.825,0.723,0.753,(3.9680)+(-0.1061)Cit+(-0.0493)Tyr+(0.0471)Orn+(-0.0114)Lys+(0.1522)Ile+(-0.0792)Leu;0.775,0.810,0.758,0.773,0.766,0.829,0.651,0.755,(2.2908)+(0.0347)Ser+(-0.1550)Asn+(0.0035)Gln+(-0.1074)Cit+(-0.0414)Tyr+(0.0480)Orn;0.775,0.815,0.788,0.807,0.800,0.792,0.712,0.778,(6.5163)+(-0.0030)Gly+(0.0160)Thr+(-0.0210)Arg+(-0.0189)Tyr+(0.0225)Orn+(-0.1476)Trp;0.775,0.806,0.737,0.717,0.757,0.812,0.698,0.746,(6.3596)+(0.0015)Gly+(-0.1322)His+(0.0145)Thr+(-0.0172)Arg+(-0.0023)Val+(0.0322)Orn;0.775,0.806,0.761,0.743,0.759,0.816,0.774,0.773,(6.4104)+(0.0040)Gly+(-0.1143)His+(-0.0229)Val+(-0.1372)Met+(0.0081)Lys+(0.0535)Leu;0.775,0.795,0.737,0.712,0.732,0.800,0.765,0.752,(5.9854)+(0.0029)Gly+(-0.1268)His+(0.0045)Pro+(-0.0202)Val+(-0.0002)Lys+(0.0421)Leu;0.775,0.818,0.776,0.773,0.774,0.778,0.788,0.778,(5.3694)+(0.0003)Gly+(-0.0110)Arg+(-0.0146)Tyr+(-0.0031)Lys+(0.0569)Ile+(-0.1553)Trp;0.775,0.815,0.760,0.786,0.720,0.814,0.735,0.764,(-0.0639)+(0.0461)Ser+(-0.1444)Asn+(-0.0051)Ala+(-0.0485)Tyr+(-0.0091)Lys+(0.0987)Phe;0.775,0.815,0.777,0.758,0.778,0.837,0.780,0.788,(3.2439)+(0.0258)Thr+(-0.0099)Ala+(-0.0906)Cit+(0.0006)Arg+(-0.2722)Met+(0.0746)Ile;0.775,0.812,0.759,0.727,0.763,0.810,0.800,0.775,(6.0672)+(0.0339)Asn+(-0.1102)His+(-0.0303)Cit+(-0.0010)Tyr+(-0.1685)Met+(0.0659)Ile;0.775,0.807,0.721,0.747,0.6

59,0.751,0.759,0.729,(0.3010)+(-0.0003)Gln+(-0.0032)Pro+(-0.0790)Tyr+(0.1666)Ile+(-0.1012)Leu+(0.0844)Phe;0.775,0.807,0.762,0.737,0.767,0.789,0.797,0.773,(5.4086)+(-0.0287)Asn+(-0.1269)His+(-0.0314)Cit+(-0.0005)Lys+(-0.0014)Leu+(0.0821)Phe;0.775,0.807,0.771,0.752,0.769,0.829,0.784,0.783,(6.7930)+(-0.0279)Asn+(-0.1161)His+(-0.0031)Ala+(-0.0018)Val+(0.0367)Orn+(0.0035)Lys;0.775,0.806,0.742,0.715,0.750,0.797,0.756,0.755,(6.6244)+(-0.0390)Asn+(-0.1353)His+(0.0194)Thr+(0.0016)Pro+(-0.0029)Lys+(0.0132)Leu;0.775,0.818,0.777,0.789,0.784,0.781,0.727,0.771,(5.4022)+(0.0105)Thr+(-0.0199)Tyr+(0.0156)Orn+(-0.0063)Lys+(0.0095)Leu+(-0.1510)Trp;0.775,0.813,0.826,0.835,0.830,0.819,0.801,0.821,(6.3467)+(-0.0020)Ala+(0.0233)Tyr+(0.0005)Val+(-0.1378)Met+(0.0082)Lys+(-0.1400)Trp;0.775,0.812,0.769,0.777,0.734,0.825,0.779,0.779,(5.0051)+(-0.0531)Asn+(-0.0644)Cit+(-0.0042)Arg+(-0.0395)Tyr+(0.1593)Ile+(-0.0812)Leu;0.775,0.810,0.773,0.747,0.790,0.842,0.756,0.784,(7.2695)+(-0.0995)His+(-0.0037)Ala+(-0.0731)Cit+(-0.0052)Tyr+(-0.0458)Met+(0.0594)Orn;0.775,0.807,0.753,0.728,0.747,0.792,0.803,0.768,(5.1864)+(-0.1303)His+(-0.0221)Cit+(-0.0052)Arg+(-0.0189)Val+(0.0286)Leu+(0.0802)Phe;0.775,0.807,0.765,0.774,0.772,0.819,0.685,0.763,(1.0435)+(0.0425)Ser+(-0.0930)Asn+(0.0048)Gln+(-0.0771)Cit+(0.0106)Pro+(-0.2227)Met;0.775,0.814,0.778,0.769,0.759,0.859,0.786,0.793,(2.6116)+(-0.1232)Asn+(0.0055)Gln+(-0.1059)Cit+(0.0342)Orn+(0.1437)Ile+(-0.0836)Leu;0.775,0.813,0.800,0.808,0.803,0.808,0.765,0.796,(6.3084)+(-0.0017)Gly+(0.0184)Thr+(-0.0053)Ala+(-0.0172)Arg+(0.0138)Leu+(-0.1563)Trp;0.775,0.806,0.747,0.733,0.745,0.810,0.742,0.757,(6.9387)+(-0.1339)His+(0.0230)Thr+(-0.0034)Ala+(-0.0117)Arg+(-0.0205)Tyr+(0.0185)Leu;0.775,0.803,0.734,0.724,0.684,0.801,0.819,0.757,(1.8703)+(0.0000)Gln+(-0.0448)Cit+(-0.0250)Arg+(-0.0573)Val+(0.1577)Ile+(0.0419)Phe;0.775,0.800,0.766,0.746,0.746,0.820,0.823,0.784,(7.2257)+(-0.0318)Asn+(-0.1048)His+(-0.0048)Ala+(0.0

093)Pro+(-0.0231)Val+(0.0474)Leu;0.775,0.818,0.808,0.831,0.808,0.810,0.742,0.798,(4.9241)+(0.0040)Gln+(-0.0194)Arg+(-0.0103)Tyr+(-0.0032)Val+(0.0248)Orn+(-0.1407)Trp;0.775,0.813,0.756,0.784,0.724,0.753,0.748,0.752,(0.1352)+(0.0546)Ser+(-0.1588)Asn+(-0.0072)Gly+(-0.0657)Tyr+(-0.0159)Leu+(0.1072)Phe;0.775,0.811,0.799,0.805,0.809,0.793,0.765,0.793,(5.8642)+(0.0000)Gly+(-0.1386)Met+(0.0208)Orn+(0.0031)Lys+(0.0106)Leu+(-0.1393)Trp;0.775,0.810,0.783,0.794,0.718,0.838,0.845,0.799,(0.6315)+(0.0027)Gln+(-0.0114)Ala+(-0.0332)Arg+(0.1818)Ile+(-0.1024)Leu+(0.0571)Phe;0.775,0.805,0.739,0.716,0.756,0.809,0.711,0.748,(6.4356)+(-0.1296)His+(0.0144)Thr+(-0.0172)Arg+(0.0032)Pro+(-0.0038)Val+(0.0314)Orn;0.775,0.813,0.803,0.807,0.738,0.868,0.881,0.823,(2.8456)+(-0.0881)Asn+(0.0043)Gln+(-0.0097)Ala+(-0.0042)Lys+(0.1627)Ile+(-0.0807)Leu;0.775,0.806,0.736,0.740,0.710,0.820,0.719,0.747,(2.6669)+(0.0013)Gln+(-0.1053)Cit+(-0.0576)Tyr+(0.0378)Orn+(0.1559)Ile+(-0.0857)Leu;0.775,0.805,0.687,0.682,0.626,0.792,0.753,0.713,(1.8858)+(0.0243)Ser+(-0.0043)Gln+(-0.0405)Tyr+(-0.0408)Val+(0.1812)Ile+(-0.0325)Leu;0.775,0.809,0.768,0.753,0.765,0.825,0.772,0.779,(6.8931)+(-0.0243)Asn+(-0.1162)His+(-0.0027)Ala+(-0.0154)Tyr+(0.0381)Orn+(0.0043)Lys;0.775,0.808,0.761,0.729,0.788,0.826,0.742,0.771,(6.7781)+(-0.0011)Asn+(-0.1041)His+(-0.0635)Cit+(0.0056)Pro+(-0.0971)Met+(0.0509)Orn;0.775,0.808,0.712,0.689,0.701,0.834,0.709,0.733,(0.5656)+(0.0308)Ser+(0.0000)Gln+(-0.0880)Cit+(-0.0204)Lys+(0.1566)Ile+(-0.0759)Leu;0.775,0.805,0.772,0.787,0.699,0.835,0.843,0.791,(2.5169)+(0.0016)Gln+(-0.0045)Thr+(-0.0097)Ala+(-0.0369)Tyr+(0.1738)Ile+(-0.0854)Leu;0.775,0.805,0.789,0.772,0.775,0.819,0.839,0.801,(1.3108)+(-0.0078)Ala+(-0.2596)Met+(0.0100)Orn+(-0.0125)Lys+(0.0572)Ile+(0.0686)Phe;0.775,0.818,0.727,0.708,0.728,0.803,0.724,0.741,(-0.8748)+(0.0504)Ser+(-0.0532)Asn+(-0.0023)Tyr+(-0.2687)Met+(-0.0092)Lys+(0.0685)Ile;0.775,0.816,0.801,0.821,0.798,0.801,0.753,0

.793,(4.7281)+(0.0029)Gln+(-0.0145)Tyr+(-0.0024)Val+(0.0201)Orn+(-0.0022)Lys+(-0.1421)Trp;0.775,0.816,0.805,0.821,0.808,0.793,0.765,0.797,(4.4789)+(0.0042)Gln+(-0.0186)Arg+(0.0044)Pro+(0.0003)Lys+(0.0055)Leu+(-0.1573)Trp;0.775,0.808,0.727,0.723,0.694,0.790,0.759,0.741,(0.4207)+(0.0514)Ser+(-0.2320)Asn+(0.0066)Pro+(-0.0499)Val+(0.0569)Leu+(0.0877)Phe;0.775,0.813,0.810,0.821,0.808,0.812,0.787,0.807,(5.9503)+(-0.0012)Gly+(-0.0043)Ala+(-0.0014)Val+(0.0250)Orn+(-0.0001)Lys+(-0.1372)Trp;0.775,0.805,0.738,0.732,0.679,0.801,0.828,0.760,(1.7685)+(0.0001)Gly+(-0.0323)Arg+(-0.0029)Pro+(-0.0597)Val+(0.1634)Ile+(0.0400)Phe;0.775,0.803,0.720,0.705,0.671,0.798,0.803,0.744,(2.0908)+(-0.0014)Gln+(-0.0358)Arg+(-0.0616)Val+(0.0241)Orn+(0.1605)Ile+(0.0341)Phe;0.775,0.813,0.750,0.732,0.760,0.816,0.728,0.759,(6.1746)+(0.0029)Gly+(-0.1149)His+(0.0072)Pro+(-0.0069)Tyr+(-0.0971)Met+(0.0334)Orn;0.775,0.813,0.717,0.717,0.710,0.789,0.681,0.724,(1.4657)+(0.0414)Ser+(-0.1338)Asn+(0.0019)Thr+(-0.0740)Cit+(-0.0451)Tyr+(0.0476)Ile;0.775,0.810,0.769,0.742,0.772,0.831,0.792,0.784,(6.5143)+(-0.1223)His+(-0.0033)Ala+(-0.0918)Met+(0.0329)Orn+(0.0031)Lys+(0.0150)Leu;0.775,0.805,0.708,0.679,0.671,0.822,0.777,0.738,(0.0987)+(0.0247)Ser+(-0.0172)Thr+(-0.0885)Cit+(-0.0495)Val+(0.0374)Orn+(0.1401)Ile;0.775,0.811,0.734,0.731,0.701,0.799,0.761,0.748,(0.5490)+(0.0481)Ser+(-0.2441)Asn+(0.0094)Thr+(-0.0522)Val+(0.0632)Leu+(0.0929)Phe;0.775,0.812,0.707,0.689,0.712,0.784,0.686,0.718,(-1.9517)+(0.0446)Ser+(-0.0007)Gln+(0.0074)Thr+(-0.0054)Tyr+(-0.3706)Met+(0.0671)Ile;0.775,0.805,0.729,0.719,0.679,0.802,0.809,0.752,(1.6393)+(-0.0368)Arg+(-0.0044)Pro+(-0.0614)Val+(0.0246)Orn+(0.1639)Ile+(0.0351)Phe;0.775,0.816,0.748,0.763,0.740,0.764,0.712,0.745,(-2.7328)+(0.0565)Ser+(-0.0066)Gly+(-0.0171)Arg+(-0.0243)Tyr+(-0.3173)Met+(0.1144)Phe;0.775,0.805,0.741,0.708,0.772,0.825,0.707,0.753,(6.5695)+(-0.1206)His+(0.0126)Thr+(-0.0682)Cit+(-0.0012)Val+(0.0505)Orn+(-0.

0063)Lys;0.775,0.818,0.711,0.712,0.716,0.757,0.663,0.712,(-3.7210)+(0.0491)Ser+(0.0099)Pro+(-0.3924)Met+(0.0022)Orn+(-0.0112)Lys+(0.1121)Phe;0.775,0.809,0.738,0.705,0.768,0.820,0.703,0.749,(6.0867)+(-0.0372)Asn+(0.0054)Gly+(-0.1181)His+(-0.0709)Cit+(0.0491)Orn+(0.0083)Leu;0.775,0.814,0.757,0.752,0.777,0.822,0.680,0.758,(7.1011)+(0.0021)Gly+(-0.1211)His+(0.0299)Thr+(-0.0111)Arg+(0.0041)Val+(-0.1490)Met;0.775,0.814,0.791,0.811,0.798,0.792,0.721,0.781,(4.8334)+(0.0036)Gln+(0.0137)Thr+(-0.0223)Arg+(-0.0161)Tyr+(0.0087)Leu+(-0.1583)Trp;0.775,0.813,0.803,0.806,0.816,0.796,0.775,0.798,(5.7644)+(0.0133)Tyr+(-0.1586)Met+(0.0191)Orn+(0.0031)Lys+(0.0103)Leu+(-0.1423)Trp;0.775,0.812,0.816,0.834,0.816,0.802,0.783,0.809,(6.9620)+(-0.0656)Asn+(0.0007)Gly+(0.0010)Tyr+(-0.0025)Val+(0.0076)Lys+(-0.1347)Trp;0.775,0.808,0.755,0.731,0.757,0.781,0.795,0.766,(5.1693)+(-0.0258)Asn+(-0.1339)His+(-0.0057)Arg+(0.0020)Pro+(0.0004)Lys+(0.0746)Phe;0.775,0.808,0.749,0.724,0.743,0.798,0.790,0.764,(6.4222)+(-0.0101)Asn+(-0.1147)His+(-0.0357)Cit+(0.0038)Arg+(-0.0259)Tyr+(0.0537)Ile;0.775,0.803,0.763,0.755,0.759,0.825,0.746,0.772,(7.0453)+(-0.0399)Asn+(0.0020)Gly+(-0.1219)His+(0.0186)Thr+(-0.0030)Ala+(0.0022)Val;0.775,0.802,0.731,0.706,0.741,0.793,0.731,0.743,(6.1684)+(-0.0474)Asn+(0.0031)Gly+(-0.1368)His+(0.0170)Thr+(0.0020)Pro+(0.0131)Leu;0.775,0.812,0.825,0.824,0.831,0.821,0.818,0.824,(6.6697)+(-0.0196)Asn+(-0.0029)Ala+(0.0218)Tyr+(-0.1131)Met+(0.0169)Leu+(-0.1389)Trp;0.775,0.802,0.757,0.737,0.743,0.822,0.790,0.773,(6.4099)+(0.0031)Gly+(-0.1220)His+(-0.0032)Ala+(-0.0005)Tyr+(-0.0176)Val+(0.0445)Leu;0.775,0.815,0.809,0.810,0.797,0.817,0.826,0.812,(6.2428)+(-0.0043)Ala+(-0.0075)Arg+(0.0072)Tyr+(-0.0228)Val+(0.0519)Leu+(-0.1438)Trp;0.775,0.814,0.766,0.768,0.734,0.828,0.786,0.779,(1.4815)+(0.0035)Gln+(0.0089)Thr+(-0.0006)Pro+(-0.2993)Met+(0.1666)Ile+(-0.0801)Leu;0.775,0.814,0.797,0.802,0.795,0.792,0.791,0.795,(6.0648)+(0.0000)Gly+(-0.

0107)Arg+(-0.0230)Val+(0.0019)Lys+(0.0466)Leu+(-0.1477)Trp;0.775,0.81
0,0.741,0.719,0.749,0.807,0.737,0.753,(6.2866)+(-0.0243)Asn+(0.0028)G
ly+(-0.1273)His+(-0.0195)Tyr+(0.0337)Orn+(0.0114)Leu;0.775,0.810,0.73
6,0.688,0.753,0.813,0.771,0.756,(5.5166)+(-0.1289)His+(-0.0594)Cit+(-
0.0004)Arg+(-0.0032)Pro+(0.0391)Orn+(0.0417)Ile;0.775,0.799,0.713,0.6
96,0.667,0.822,0.781,0.741,(0.3016)+(0.0290)Ser+(-0.0151)Thr+(-0.0667
)Cit+(-0.0337)Val+(0.1864)Ile+(-0.0492)Leu;0.775,0.815,0.766,0.767,0.
779,0.834,0.685,0.766,(7.4182)+(0.0015)Gly+(-0.1140)His+(0.0298)Thr+(
-0.0007)Ala+(-0.0114)Arg+(-0.1329)Met;0.775,0.810,0.738,0.705,0.714,0
.846,0.797,0.766,(-0.6098)+(0.0343)Ser+(-0.0175)Thr+(-0.0149)Ala+(-0.
1240)Cit+(0.0403)Orn+(0.0586)Ile;0.775,0.811,0.740,0.702,0.758,0.803,
0.755,0.755,(4.5129)+(-0.1345)His+(-0.0624)Cit+(0.0001)Pro+(0.0415)Or
n+(-0.0061)Leu+(0.0707)Phe;0.775,0.814,0.805,0.815,0.811,0.787,0.781,
0.799,(6.7145)+(-0.0580)Asn+(
-0.0091)Arg+(0.0058)Pro+(0.0063)Lys+(0.0035)Leu+(-0.1437)Trp;0.775,0.
812,0.807,0.822,0.809,0.817,0.760,0.802,(6.1963)+(-0.0040)Ala+(-0.016
1)Arg+(-0.0023)Val+(0.0290)Orn+(0.0040)Lys+(-0.1362)Trp;0.775,0.811,0
.831,0.839,0.835,0.826,0.804,0.826,(7.1579)+(-0.0244)Asn+(-0.0019)Ala
+(0.0224)Tyr+(0.0018)Val+(-0.0915)Met+(-0.1319)Trp;0.775,0.811,0.833,
0.841,0.838,0.827,0.805,0.828,(7.2822)+(-0.0257)Asn+(-0.0016)Ala+(-0.
0004)Arg+(0.0232)Tyr+(-0.0883)Met+(-0.1295)Trp;0.775,0.818,0.737,0.74
7,0.749,0.785,0.650,0.733,(-3.1017)+(0.0476)Ser+(-0.0160)Arg+(-0.3404
)Met+(0.0120)Orn+(-0.0083)Lys+(0.1111)Phe;0.775,0.808,0.752,0.722,0.7
74,0.817,0.738,0.763,(7.0021)+(-0.0199)Asn+(-0.1114)His+(-0.0646)Cit+
(-0.0244)Tyr+(0.0541)Orn+(0.0084)Leu;0.775,0.809,0.760,0.738,0.768,0.
817,0.756,0.770,(6.5311)+(-0.0031)Asn+(-0.1097)His+(0.0070)Pro+(-0.00
27)Val+(-0.0966)Met+(0.0356)Orn;0.775,0.806,0.766,0.763,0.768,0.836,0
.720,0.772,(7.5102)+(-0.0447)Asn+(0.0031)Gly+(-0.1090)His+(0.0208)Thr

+(-0.0030)Ala+(-0.0396)Cit;0.775,0.803,0.745,0.749,0.687,0.817,0.802,0.764,(3.5882)+(0.0015)Gln+(-0.0482)Cit+(-0.0172)Arg+(-0.0376)Tyr+(-0.0496)Val+(0.1580)Ile;0.775,0.815,0.803,0.813,0.809,0.792,0.772,0.797,(6.5075)+(-0.0629)Asn+(-0.0096)Tyr+(0.0225)Orn+(0.0023)Lys+(0.0048)Leu+(-0.1376)Trp;0.775,0.813,0.770,0.768,0.781,0.832,0.703,0.771,(7.6613)+(-0.0071)Asn+(-0.1124)His+(0.0307)Thr+(-0.0008)Ala+(-0.0107)Arg+(-0.1276)Met;0.775,0.808,0.815,0.806,0.794,0.853,0.852,0.826,(1.7321)+(-0.0386)Asn+(0.0076)Gln+(-0.0094)Ala+(-0.0897)Cit+(-0.1948)Met+(0.0707)Ile;0.775,0.800,0.732,0.723,0.733,0.789,0.713,0.739,(6.4072)+(0.0007)Gly+(-0.1270)His+(0.0152)Thr+(0.0058)Pro+(-0.0251)Tyr+(0.0013)Lys;0.775,0.811,0.806,0.812,0.807,0.811,0.785,0.804,(5.9842)+(-0.0031)Ala+(-0.1182)Met+(0.0226)Orn+(0.0027)Lys+(0.0128)Leu+(-0.1371)Trp;0.775,0.813,0.734,0.717,0.730,0.796,0.744,0.747,(-1.8517)+(0.0546)Ser+(-0.0061)Gly+(0.0013)Gln+(-0.0140)Arg+(-0.3382)Met+(0.0646)Ile;0.775,0.813,0.747,0.773,0.719,0.763,0.724,0.745,(-0.1284)+(0.0569)Ser+(-0.1447)Asn+(-0.0068)Gly+(-0.0173)Arg+(-0.0680)Tyr+(0.0933)Phe;0.775,0.812,0.794,0.804,0.796,0.810,0.748,0.790,(6.1042)+(0.0177)Thr+(-0.0051)Ala+(-0.0171)Arg+(-0.0051)Tyr+(0.0146)Leu+(-0.1543)Trp;0.775,0.806,0.740,0.702,0.756,0.818,0.754,0.757,(6.2811)+(-0.1175)His+(-0.0565)Cit+(-0.0030)Arg+(-0.0229)Val+(0.0519)Orn+(0.0412)Leu;0.775,0.819,0.777,0.774,0.775,0.778,0.790,0.779,(5.4187)+(-0.0110)Arg+(0.0006)Pro+(-0.0153)Tyr+(-0.0030)Lys+(0.0561)Ile+(-0.1551)Trp;0.775,0.814,0.798,0.802,0.795,0.792,0.794,0.796,(6.1359)+(0.0001)Gly+(-0.0092)Arg+(-0.0012)Tyr+(-0.0229)Val+(0.0475)Leu+(-0.1461)Trp;0.775,0.813,0.763,0.769,0.727,0.823,0.778,0.774,(1.7270)+(0.0034)Gln+(0.0097)Thr+(-0.0140)Tyr+(-0.2784)Met+(0.1652)Ile+(-0.0788)Leu;0.775,0.809,0.769,0.753,0.768,0.828,0.772,0.780,(7.0020)+(-0.0198)Asn+(-0.1133)His+(-0.0026)Ala+(-0.0126)Tyr+(-0.0002)Val+(0.0400)Orn;0.775,0.806,0.773,0.786,0.701,0.832,0.845,0.7

91,(3.4344)+(-0.0018)Gly+(-0.0008)Thr+(-0.0095)Ala+(-0.0391)Tyr+(0.1724)Ile+(-0.0844)Leu;0.775,0.806,0.722,0.704,0.681,0.814,0.786,0.746,(3.1555)+(0.0090)Thr+(-0.0338)Arg+(-0.0583)Val+(0.0274)Orn+(-0.0128)Lys+(0.1679)Ile;0.775,0.806,0.758,0.732,0.764,0.785,0.794,0.769,(5.3202)+(-0.0307)Asn+(-0.1267)His+(-0.0316)Cit+(0.0023)Pro+(-0.0028)Leu+(0.0809)Phe;0.775,0.814,0.724,0.681,0.751,0.801,0.729,0.740,(4.4648)+(-0.1463)His+(0.0147)Thr+(-0.0511)Cit+(-0.0113)Arg+(0.0319)Orn+(0.0666)Phe;0.775,0.812,0.808,0.817,0.815,0.792,0.783,0.801,(6.5050)+(-0.0331)Asn+(0.0012)Gly+(-0.1083)Met+(0.0073)Lys+(0.0124)Leu+(-0.1397)Trp;0.775,0.812,0.760,0.773,0.755,0.802,0.705,0.759,(0.5102)+(0.0488)Ser+(-0.1813)Asn+(-0.0577)Cit+(-0.0085)Arg+(-0.0171)Val+(0.1057)Phe;0.775,0.804,0.731,0.722,0.681,0.814,0.802,0.755,(3.2758)+(0.0002)Gln+(0.0113)Thr+(-0.0303)Arg+(-0.0567)Val+(-0.0110)Lys+(0.1683)Ile;0.775,0.800,0.741,0.750,0.681,0.800,0.802,0.758,(4.2809)+(-0.0011)Gly+(-0.0241)Arg+(-0.0358)Tyr+(-0.0405)Val+(0.1909)Ile+(-0.0392)Leu;0.775,0.809,0.783,0.782,0.719,0.855,0.865,0.805,(3.6788)+(-0.0773)Asn+(0.0019)Gly+(-0.0108)Ala+(0.0046)Pro+(0.1585)Ile+(-0.0807)Leu;0.775,0.803,0.729,0.717,0.681,0.803,0.806,0.752,(1.5683)+(0.0017)Gly+(-0.0475)Cit+(-0.0256)Arg+(-0.0570)Val+(0.1574)Ile+(0.0431)Phe;0.775,0.807,0.704,0.692,0.645,0.812,0.782,0.733,(1.1365)+(0.0261)Ser+(-0.0016)Thr+(-0.0298)Tyr+(-0.0471)Val+(-0.0175)Lys+(0.1559)Ile;0.775,0.817,0.751,0.767,0.738,0.793,0.706,0.751,(-2.7975)+(0.0448)Ser+(-0.0031)Ala+(-0.0127)Tyr+(-0.3096)Met+(-0.0083)Lys+(0.1167)Phe;0.775,0.817,0.782,0.801,0.794,0.794,0.694,0.771,(6.0289)+(0.0138)Thr+(-0.0212)Arg+(-0.0157)Tyr+(0.0216)Orn+(-0.0003)Lys+(-0.1469)Trp;0.775,0.810,0.740,0.717,0.692,0.819,0.848,0.769,(2.3198)+(-0.0673)Cit+(-0.0043)Pro+(-0.0514)Val+(-0.0182)Lys+(0.1618)Ile+(0.0503)Phe;0.775,0.809,0.744,0.719,0.763,0.812,0.721,0.754,(6.7608)+(-0.0372)Asn+(-0.1281)His+(0.0174)Thr+(-0.0142)Arg+(0.0023)Pr

o+(0.0289)Orn;0.775,0.805,0.722,0.700,0.690,0.810,0.786,0.746,(1.6237)+(-0.0696)Cit+(-0.0273)Arg+(-0.0581)Val+(0.0380)Orn+(0.1522)Ile+(0.0361)Phe;0.775,0.804,0.767,0.737,0.782,0.842,0.760,0.780,(6.8822)+(-0.1078)His+(-0.0051)Ala+(-0.0755)Cit+(0.0010)Arg+(0.0008)Val+(0.0569)Orn;0.775,0.816,0.767,0.768,0.735,0.830,0.786,0.780,(1.6425)+(0.0037)Gln+(0.0099)Thr+(-0.2943)Met+(-0.0037)Lys+(0.1648)Ile+(-0.0779)Leu;0.775,0.807,0.767,0.743,0.781,0.838,0.752,0.778,(7.1051)+(-0.1037)His+(-0.0043)Ala+(-0.0752)Cit+(0.0013)Arg+(-0.0134)Tyr+(0.0598)Orn;0.775,0.807,0.777,0.793,0.790,0.846,0.657,0.772,(3.3080)+(0.0369)Ser+(-0.0853)Asn+(0.0158)Thr+(-0.0032)Ala+(-0.0691)Cit+(-0.1736)Met;0.775,0.815,0.811,0.828,0.821,0.801,0.754,0.801,(5.2714)+(-0.0033)Gly+(0.0042)Gln+(0.0145)Thr+(-0.0227)Arg+(-0.0009)Lys+(-0.1577)Trp;0.775,0.811,0.806,0.823,0.812,0.819,0.743,0.799,(6.9272)+(-0.0023)Gly+(0.0195)Thr+(-0.0037)Ala+(-0.0164)Arg+(-0.0040)Tyr+(-0.1451)Trp;0.775,0.810,0.807,0.822,0.812,0.820,0.748,0.801,(6.8131)+(-0.0021)Gly+(0.0189)Thr+(-0.0040)Ala+(-0.0167)Arg+(0.0007)Val+(-0.1473)Trp;0.775,0.814,0.826,0.834,0.837,0.812,0.792,0.819,(6.9440)+(-0.0324)Asn+(-0.0063)Arg+(0.0202)Tyr+(-0.1185)Met+(0.0110)Lys+(-0.1396)Trp;0.775,0.812,0.746,0.756,0.763,0.825,0.629,0.743,(3.0734)+(0.0374)Ser+(-0.1358)Asn+(-0.1013)Cit+(-0.0041)Arg+(-0.0396)Tyr+(0.0507)Orn;0.775,0.814,0.799,0.815,0.800,0.793,0.760,0.792,(5.9438)+(-0.0019)Gly+(-0.0136)Tyr+(-0.0031)Val+(0.0249)Orn+(-0.0001)Lys+(-0.1374)Trp;0.775,0.806,0.750,0.727,0.749,0.785,0.784,0.761,(4.9980)+(-0.1305)His+(-0.0304)Cit+(0.0033)Pro+(-0.0061)Val+(-0.0014)Lys+(0.0866)Phe;0.775,0.822,0.754,0.779,0.741,0.789,0.693,0.750,(-2.6556)+(0.0432)Ser+(-0.0128)Tyr+(-0.0115)Val+(-0.3251)Met+(-0.0038)Lys+(0.1328)Phe;0.775,0.814,0.764,0.765,0.780,0.829,0.682,0.764,(7.4440)+(-0.0090)Asn+(0.0017)Gly+(-0.1137)His+(0.0300)Thr+(-0.0111)Arg+(-0.1316)Met;0.775,0.814,0.762,0.756,0.780,0.824,0.696,0.764,(7.3511)

+(-0.0000)Asn+(-0.1194)His+(0.0310)Thr+(-0.0107)Arg+(0.0035)Val+(-0.1477)Met;0.775,0.811,0.806,0.812,0.810,0.811,0.777,0.803,(6.2843)+(-0.0031)Ala+(-0.0064)Arg+(-0.1022)Met+(0.0261)Orn+(0.0132)Leu+(-0.1339)Trp;0.775,0.810,0.823,0.838,0.818,0.818,0.798,0.818,(6.9100)+(-0.0594)Asn+(0.0009)Gly+(-0.0029)Ala+(0.0055)Tyr+(0.0071)Lys+(-0.1354)Trp;0.775,0.814,0.772,0.769,0.786,0.842,0.705,0.775,(7.7446)+(-0.1068)His+(0.0306)Thr+(-0.0012)Ala+(-0.0290)Cit+(-0.0066)Arg+(-0.1334)Met;0.775,0.809,0.768,0.742,0.771,0.831,0.788,0.783,(6.6541)+(-0.1203)His+(-0.0032)Ala+(-0.0044)Tyr+(-0.0778)Met+(0.0348)Orn+(0.0158)Leu;0.775,0.807,0.756,0.738,0.761,0.824,0.744,0.767,(6.3421)+(0.0028)Gly+(-0.1242)His+(-0.0035)Ala+(-0.0125)Arg+(0.0364)Orn+(0.0044)Lys;0.775,0.806,0.749,0.716,0.747,0.802,0.804,0.767,(6.0208)+(-0.0093)Asn+(-0.1273)His+(-0.0031)Arg+(-0.0013)Pro+(-0.0018)Lys+(0.0483)Ile;0.775,0.812,0.711,0.699,0.727,0.789,0.655,0.717,(-1.6095)+(0.0448)Ser+(0.0124)Thr+(-0.0177)Arg+(-0.3695)Met+(-0.0044)Orn+(0.0685)Ile;0.775,0.813,0.767,0.749,0.764,0.847,0.763,0.781,(3.9660)+(-0.0919)Cit+(-0.2018)Met+(0.0377)Orn+(-0.0041)Lys+(0.1614)Ile+(-0.0801)Leu;0.775,0.815,0.736,0.721,0.697,0.836,0.784,0.760,(0.6669)+(0.0428)Ser+(-0.1189)Asn+(-0.0104)Thr+(-0.0066)Lys+(0.1484)Ile+(-0.0752)Leu;0.775,0.809,0.761,0.729,0.787,0.828,0.745,0.772,(6.6728)+(-0.1050)His+(-0.0664)Cit+(0.0038)Arg+(0.0056)Pro+(-0.1026)Met+(0.0509)Orn;0.775,0.808,0.721,0.711,0.692,0.808,0.745,0.739,(-1.9145)+(0.0408)Ser+(-0.0060)Gly+(-0.0484)Arg+(0.1730)Ile+(-0.1095)Leu+(0.0541)Phe;0.775,0.807,0.747,0.726,0.737,0.792,0.793,0.762,(6.3430)+(-0.0072)Asn+(-0.1224)His+(-0.0034)Arg+(-0.0262)Tyr+(0.0012)Lys+(0.0514)Ile;0.775,0.814,0.806,0.819,0.802,0.813,0.772,0.802,(5.8203)+(-0.0042)Ala+(-0.0044)Tyr+(-0.0012)Val+(0.0250)Orn+(0.0000)Lys+(-0.1362)Trp;0.775,0.804,0.748,0.730,0.748,0.815,0.750,0.761,(6.8328)+(-0.1277)His+(0.0212)Thr+(-0.0044)Ala+(-0.0378)Cit+(-0.0193)Tyr+(0.020

6)Leu;0.774,0.811,0.759,0.746,0.745,0.789,0.799,0.770,(-0.2812)+(0.02
08)Thr+(-0.0103)Ala+(0.0086)Pro+(-0.3770)Met+(0.0473)Ile+(0.0774)Phe;
0.774,0.809,0.769,0.743,0.773,0.831,0.789,0.784,(6.6913)+(-0.1196)His
+(-0.0033)Ala+(-0.0025)Arg+(-0.0803)Met+(0.0349)Orn+(0.0153)Leu;0.774
,0.803,0.726,0.712,0.735,0.791,0.699,0.734,(6.5974)+(0.0015)Gly+(-0.1
381)His+(0.0219)Thr+(-0.0132)Arg+(-0.0249)Tyr+(0.0166)Leu;0.774,0.814
,0.767,0.762,0.774,0.826,0.726,0.772,(6.8472)+(-0.1184)His+(0.0265)Th
r+(-0.0010)Ala+(0.0031)Tyr+(-0.1636)Met+(0.0065)Lys;0.774,0.812,0.805
,0.810,0.807,0.813,0.783,0.803,(6.0402)+(0.0002)Gly+(-0.0032)Ala+(-0.
1124)Met+(0.0237)Orn+(0.0139)Leu+(-0.1351)Trp;0.774,0.810,0.747,0.724
,0.766,0.812,0.721,0.756,(6.8647)+(-0.0373)Asn+(-0.1284)His+(0.0178)T
hr+(-0.0145)Arg+(0.0301)Orn+(0.0008)Lys;0.774,0.809,0.761,0.740,0.761
,0.788,0.794,0.771,(5.2453)+(-0.0272)Asn+(-0.1327)His+(-0.0061)Arg+(0
.0017)Lys+(-0.0032)Leu+(0.0799)Phe;0.774,0.808,0.765,0.736,0.764,0.82
8,0.797,0.781,(6.5604)+(-0.0182)Asn+(-0.1248)His+(-0.0043)Ala+(0.0329
)Orn+(0.0000)Lys+(0.0119)Leu;0.774,0.808,0.792,0.770,0.786,0.822,0.83
8,0.804,(1.4676)+(-0.0100)Ala+(-0.0860)Cit+(0.0100)Arg+(-0.2569)Met+(
0.0628)Ile+(0.0712)Phe;0.774,0.807,0.730,0.692,0.762,0.822,0.700,0.74
4,(5.8428)+(0.0047)Gly+(-0.1238)His+(-0.0720)Cit+(0.0502)Orn+(-0.0059
)Lys+(0.0109)Leu;0.774,0.816,0.800,0.820,0.799,0.790,0.757,0.792,(4.6
425)+(0.0044)Gln+(-0.0170)Arg+(0.0055)Pro+(-0.0146)Tyr+(0.0065)Leu+(-
0.1519)Trp;0.774,0.807,0.736,0.707,0.747,0.802,0.739,0.749,(5.8153)+(
-0.0318)Asn+(0.0036)Gly+(-0.1
308)His+(0.0026)Pro+(0.0282)Orn+(0.0081)Leu;0.774,0.811,0.775,0.778,0
.738,0.831,0.806,0.788,(1.5974)+(-0.0001)Gly+(0.0044)Gln+(-0.2683)Met
+(-0.0019)Lys+(0.1678)Ile+(-0.0808)Leu;0.774,0.810,0.773,0.777,0.736,
0.828,0.804,0.786,(1.5142)+(-0.0001)Gly+(0.0042)Gln+(-0.0004)Pro+(-0.
2720)Met+(0.1688)Ile+(-0.0819)Leu;0.774,0.810,0.705,0.690,0.707,0.782

,0.686,0.716,(-2.1131)+(0.0440)Ser+(0.0064)Thr+(0.0035)Pro+(-0.0078)Tyr+(-0.3762)Met+(0.0628)Ile;0.774,0.808,0.760,0.738,0.781,0.823,0.734,0.769,(7.3242)+(-0.0254)Asn+(-0.1014)His+(-0.0675)Cit+(-0.0189)Tyr+(-0.0019)Val+(0.0587)Orn;0.774,0.806,0.755,0.752,0.749,0.823,0.726,0.762,(7.2313)+(-0.1159)His+(0.0204)Thr+(-0.0045)Ala+(-0.0139)Arg+(0.0094)Pro+(-0.0200)Tyr;0.774,0.803,0.744,0.740,0.689,0.820,0.813,0.765,(3.7463)+(0.0016)Gln+(-0.0638)Cit+(-0.0347)Tyr+(-0.0459)Val+(-0.0114)Lys+(0.1567)Ile;0.774,0.800,0.749,0.728,0.736,0.820,0.780,0.766,(5.9669)+(0.0036)Gly+(-0.1268)His+(-0.0060)Ala+(0.0080)Pro+(0.0012)Lys+(0.0147)Leu;0.774,0.816,0.796,0.811,0.796,0.789,0.760,0.789,(4.4791)+(0.0030)Gln+(-0.0168)Tyr+(0.0163)Orn+(-0.0049)Lys+(0.0083)Leu+(-0.1500)Trp;0.774,0.815,0.808,0.826,0.804,0.796,0.779,0.801,(4.9264)+(-0.0029)Gly+(0.0035)Gln+(-0.0178)Tyr+(0.0196)Orn+(-0.0031)Lys+(-0.1440)Trp;0.774,0.813,0.804,0.807,0.818,0.801,0.768,0.798,(6.0963)+(-0.0070)Arg+(0.0138)Tyr+(-0.1422)Met+(0.0229)Orn+(0.0108)Leu+(-0.1386)Trp;0.774,0.813,0.825,0.834,0.834,0.823,0.783,0.819,(7.0310)+(-0.0284)Asn+(0.0014)Gly+(-0.0011)Arg+(0.0223)Tyr+(-0.0997)Met+(-0.1307)Trp;0.774,0.810,0.798,0.805,0.811,0.798,0.755,0.792,(6.1670)+(0.0001)Gly+(-0.0067)Arg+(-0.1219)Met+(0.0245)Orn+(0.0110)Leu+(-0.1356)Trp;0.774,0.801,0.707,0.709,0.638,0.799,0.780,0.732,(0.6157)+(0.0240)Ser+(-0.0112)Thr+(-0.0369)Tyr+(-0.0361)Val+(0.1816)Ile+(-0.0419)Leu;0.774,0.810,0.776,0.766,0.790,0.854,0.715,0.781,(2.0250)+(0.0384)Ser+(-0.0047)Gly+(-0.0055)Ala+(-0.1025)Cit+(-0.2029)Met+(0.0484)Orn;0.774,0.796,0.745,0.725,0.739,0.804,0.771,0.759,(6.6909)+(-0.0459)Asn+(0.0039)Gly+(-0.1121)His+(0.0056)Pro+(-0.0242)Val+(0.0476)Leu;0.774,0.813,0.787,0.795,0.804,0.781,0.732,0.778,(6.0101)+(-0.0019)Gly+(0.0147)Thr+(-0.0204)Arg+(0.0037)Pro+(0.0058)Leu+(-0.1606)Trp;0.774,0.807,0.744,0.718,0.740,0.795,0.787,0.760,(6.2765)+(-0.1170)His+(-0.0350)Cit+(0.0024)Arg+(0.0005)Pro+(-0.0

270)Tyr+(0.0535)Ile;0.774,0.807,0.757,0.730,0.764,0.787,0.795,0.769,(5.3412)+(-0.0280)Asn+(-0.1274)His+(-0.0319)Cit+(0.0021)Pro+(-0.0013)Lys+(0.0787)Phe;0.774,0.806,0.738,0.722,0.742,0.805,0.725,0.748,(6.1185)+(0.0015)Gly+(-0.1221)His+(0.0056)Pro+(-0.0227)Tyr+(-0.0016)Val+(0.0351)Orn;0.774,0.817,0.775,0.791,0.788,0.777,0.703,0.765,(5.9616)+(0.0152)Thr+(-0.0196)Arg+(0.0051)Pro+(-0.0192)Tyr+(0.0075)Leu+(-0.1542)Trp;0.774,0.808,0.773,0.788,0.716,0.838,0.803,0.786,(4.0896)+(0.0072)Thr+(-0.0089)Ala+(-0.0255)Arg+(-0.0370)Tyr+(0.1796)Ile+(-0.0883)Leu;0.774,0.806,0.746,0.720,0.742,0.796,0.785,0.761,(6.3963)+(-0.1155)His+(-0.0332)Cit+(0.0007)Pro+(-0.0259)Tyr+(-0.0009)Lys+(0.0537)Ile;0.774,0.811,0.751,0.733,0.746,0.785,0.782,0.762,(4.9565)+(-0.1337)His+(-0.0114)Arg+(0.0038)Pro+(-0.0082)Val+(0.0026)Lys+(0.0861)Phe;0.774,0.808,0.762,0.725,0.775,0.839,0.777,0.779,(6.5651)+(-0.1149)His+(-0.0062)Ala+(-0.0758)Cit+(0.0029)Arg+(0.0532)Orn+(0.0125)Leu;0.774,0.806,0.728,0.753,0.664,0.758,0.773,0.737,(0.4097)+(-0.0044)Thr+(-0.0030)Pro+(-0.0754)Tyr+(0.1683)Ile+(-0.1018)Leu+(0.0835)Phe;0.774,0.812,0.759,0.751,0.771,0.816,0.716,0.763,(6.7269)+(-0.1231)His+(0.0272)Thr+(-0.0007)Tyr+(0.0030)Val+(-0.1701)Met+(0.0056)Lys;0.774,0.807,0.716,0.710,0.643,0.797,0.826,0.744,(1.4217)+(0.0312)Ser+(-0.0122)Gly+(-0.0553)Tyr+(-0.0513)Val+(0.0182)Orn+(0.1507)Ile;0.774,0.804,0.727,0.722,0.677,0.803,0.787,0.747,(3.8485)+(-0.0278)Arg+(-0.0358)Tyr+(-0.0542)Val+(0.0335)Orn+(-0.0066)Lys+(0.1629)Ile;0.774,0.815,0.770,0.786,0.734,0.825,0.761,0.777,(0.2295)+(0.0434)Ser+(-0.1935)Asn+(-0.0047)Ala+(-0.0202)Val+(0.0262)Orn+(0.0986)Phe;0.774,0.813,0.769,0.763,0.782,0.831,0.715,0.773,(7.2318)+(-0.1101)His+(0.0280)Thr+(-0.0013)Ala+(-0.0323)Cit+(-0.1541)Met+(0.0060)Lys;0.774,0.811,0.746,0.746,0.710,0.803,0.777,0.759,(0.0677)+(0.0491)Ser+(-0.2348)Asn+(0.0017)Gln+(-0.0492)Val+(0.0599)Leu+(0.0904)Phe;0.774,0.807,0.740,0.710,0.762,0.807,0.727,0.752,(6.5443)+(-

0.1162)His+(-0.0637)Cit+(0.0040)Pro+(-0.0299)Tyr+(0.0517)Orn+(0.0073)Leu;0.774,0.812,0.702,0.690,0.644,0.808,0.777,0.730,(1.1835)+(0.0237)Ser+(-0.0339)Tyr+(-0.0482)Val+(0.0180)Orn+(-0.0197)Lys+(0.1550)Ile;0.774,0.811,0.775,0.771,0.755,0.835,0.788,0.787,(4.4311)+(-0.0071)Asn+(-0.0646)Cit+(-0.0127)Tyr+(-0.1765)Met+(0.1691)Ile+(-0.0798)Leu;0.774,0.812,0.730,0.725,0.717,0.790,0.725,0.739,(1.5445)+(0.0465)Ser+(-0.1271)Asn+(-0.0035)Gly+(-0.0676)Cit+(-0.0465)Tyr+(0.0463)Ile;0.774,0.812,0.766,0.750,0.771,0.834,0.752,0.777,(6.4939)+(0.0025)Gly+(-0.1152)His+(-0.0022)Ala+(0.0006)Tyr+(-0.0672)Met+(0.0378)Orn;0.774,0.809,0.742,0.727,0.747,0.806,0.726,0.751,(6.4079)+(-0.0280)Asn+(0.0024)Gly+(-0.1176)His+(0.0055)Pro+(-0.0215)Tyr+(0.0349)Orn;0.774,0.808,0.707,0.688,0.672,0.801,0.763,0.731,(-2.6948)+(0.0386)Ser+(-0.0265)Thr+(-0.0848)Cit+(0.1803)Ile+(-0.1071)Leu+(0.0630)Phe;0.774,0.804,0.761,0.743,0.759,0.821,0.773,0.774,(6.7953)+(-0.0085)Asn+(0.0041)Gly+(-0.1087)His+(-0.0222)Val+(-0.1046)Met+(0.0546)Leu;0.774,0.802,0.745,0.717,0.761,0.804,0.742,0.756,(7.0306)+(-0.0380)Asn+(-0.1282)His+(0.0217)Thr+(-0.0343)Cit+(-0.0040)Lys+(0.0155)Leu;0.774,0.800,0.734,0.724,0.736,0.788,0.719,0.742,(6.4889)+(-0.1276)His+(0.0160)Thr+(0.0056)Pro+(-0.0265)Tyr+(0.0010)Val+(0.0010)Lys;0.774,0.815,0.790,0.803,0.805,0.786,0.730,0.781,(6.2351)+(-0.0020)Gly+(0.0148)Thr+(-0.0203)Arg+(0.0045)Pro+(0.0004)Lys+(-0.1558)Trp;0.774,0.812,0.808,0.820,0.805,0.811,0.783,0.805,(5.9919)+(-0.0012)Gly+(-0.0042)Ala+(-0.0055)Tyr+(0.0250)Orn+(-0.0002)Lys+(-0.1370)Trp;0.774,0.803,0.777,0.801,0.732,0.817,0.781,0.783,(2.9959)+(-0.0788)Asn+(0.0064)Gln+(-0.0254)Arg+(-0.0421)Tyr+(0.1608)Ile+(-0.0866)Leu;0.774,0.803,0.742,0.738,0.688,0.819,0.809,0.764,(4.3977)+(-0.0505)Cit+(-0.0097)Arg+(-0.0320)Tyr+(-0.0484)Val+(-0.0068)Lys+(0.1608)Ile;0.774,0.815,0.734,0.739,0.749,0.813,0.629,0.733,(2.8661)+(0.0379)Ser+(-0.1419)Asn+(-0.1031)Cit+(0.0058)Pro+(-0.0474)Tyr+(0.0477)Orn;0

.774,0.807,0.789,0.764,0.778,0.843,0.836,0.805,(4.3049)+(-0.0114)Ala+(-0.0752)Cit+(0.0101)Pro+(-0.1787)Met+(-0.0065)Lys+(0.0683)Ile;0.774,0.805,0.727,0.711,0.735,0.789,0.706,0.735,(6.7297)+(-0.1345)His+(0.0222)Thr+(-0.0136)Arg+(0.0041)Pro+(-0.0307)Tyr+(0.0142)Leu;0.774,0.817,0.741,0.758,0.750,0.780,0.645,0.734,(-3.2473)+(0.0465)Ser+(-0.0199)Arg+(-0.3510)Met+(0.0104)Orn+(-0.0067)Leu+(0.1139)Phe;0.774,0.814,0.798,0.824,0.805,0.801,0.713,0.786,(5.0642)+(0.0039)Gln+(0.0137)Thr+(-0.0221)Arg+(-0.0128)Tyr+(0.0003)Lys+(-0.1517)Trp;0.774,0.811,0.789,0.797,0.755,0.840,0.800,0.798,(1.9606)+(-0.0264)Asn+(0.0068)Gln+(-0.0214)Arg+(-0.2222)Met+(0.1720)Ile+(-0.0852)Leu;0.774,0.806,0.731,0.720,0.666,0.800,0.846,0.758,(1.4242)+(-0.0066)Pro+(-0.0441)Val+(-0.0152)Lys+(0.1879)Ile+(-0.0364)Leu+(0.0436)Phe;0.774,0.806,0.785,0.790,0.731,0.855,0.835,0.803,(4.0348)+(-0.0545)Asn+(0.0026)Gly+(-0.0093)Ala+(-0.0185)Arg+(0.1729)Ile+(-0.0860)Leu;0.774,0.805,0.758,0.732,0.756,0.824,0.785,0.774,(6.3998)+(-0.1227)His+(-0.0061)Ala+(-0.0084)Arg+(0.0071)Pro+(0.0318)Orn+(0.0089)Leu;0.774,0.803,0.727,0.714,0.676,0.800,0.811,0.750,(1.8424)+(-0.0012)Gly+(-0.0372)Arg+(-0.0614)Val+(0.0233)Orn+(0.1595)Ile+(0.0321)Phe;0.774,0.809,0.738,0.734,0.751,0.796,0.678,0.740,(0.1790)+(0.0485)Ser+(-0.1540)Asn+(0.0030)Thr+(-0.0819)Cit+(-0.0173)Lys+(0.0806)Phe;0.774,0.800,0.749,0.733,0.735,0.815,0.774,0.764,(6.2382)+(0.0034)Gly+(-0.1225)His+(-0.0055)Ala+(0.0087)Pro+(-0.0110)Tyr+(0.0157)Leu;0.774,0.815,0.742,0.756,0.750,0.780,0.659,0.736,(-3.0929)+(0.0484)Ser+(-0.0148)Arg+(-0.3409)Met+(-0.0062)Lys+(-0.0016)Leu+(0.1156)Phe;0.774,0.811,0.749,0.723,0.765,0.817,0.737,0.761,(6.0946)+(0.0038)Gly+(-0.1254)His+(-0.0038)Arg+(-0.1019)Met+(0.0317)Orn+(0.0153)Leu;0.774,0.804,0.758,0.747,0.754,0.828,0.748,0.769,(6.9569)+(-0.1221)His+(0.0180)Thr+(-0.0053)Ala+(-0.0134)Arg+(0.0080)Pro+(0.0008)Val;0.774,0.809,0.774,0.792,0.737,0.825,0.764,0.780,(0.2821)+(0.0459)Ser+(-0.1758)

Asn+(-0.0043)Ala+(-0.0159)Val+(-0.0045)Lys+(0.1017)Phe;0.774,0.807,0.758,0.743,0.753,0.820,0.760,0.769,(6.8385)+(-0.1118)His+(-0.0049)Ala+(-0.0092)Arg+(0.0091)Pro+(-0.0185)Tyr+(0.0378)Orn;0.774,0.805,0.793,0.779,0.779,0.817,0.844,0.804,(1.3773)+(-0.0027)Asn+(-0.0077)Ala+(-0.2596)Met+(-0.0110)Lys+(0.0594)Ile+(0.0711)Phe;0.774,0.813,0.766,0.735,0.770,0.810,0.804,0.780,(6.4583)+(-0.1074)His+(-0.0298)Cit+(-0.0058)Tyr+(-0.1398)Met+(0.0042)Lys+(0.0605)Ile;0.774,0.807,0.771,0.767,0.768,0.838,0.742,0.779,(7.1099)+(0.0051)Gly+(-0.0932)His+(-0.0050)Ala+(-0.0397)Cit+(0.0132)Pro+(-0.0775)Met;0.774,0.806,0.738,0.703,0.768,0.821,0.708,0.750,(6.4479)+(-0.1223)His+(0.0123)Thr+(-0.0676)Cit+(0.0017)Pro+(0.0487)Orn+(-0.0070)Lys;0.774,0.804,0.765,0.764,0.759,0.823,0.736,0.771,(7.3952)+(-0.0413)Asn+(0.0013)Gly+(-0.1158)His+(0.0207)Thr+(-0.0021)Ala+(-0.0110)Tyr;0.774,0.814,0.764,0.758,0.775,0.818,0.721,0.768,(6.9756)+(-0.0152)Asn+(-0.1173)His+(0.0272)Thr+(0.0002)Tyr+(-0.1569)Met+(0.0069)Lys;0.774,0.813,0.759,0.755,0.777,0.825,0.680,0.760,(6.8636)+(0.0026)Gly+(-0.1129)His+(0.0269)Thr+(-0.0348)Cit+(-0.1651)Met+(0.0063)Lys;0.774,0.810,0.758,0.730,0.783,0.821,0.735,0.767,(6.8868)+(-0.1028)His+(-0.0641)Cit+(0.0063)Pro+(-0.0147)Tyr+(-0.0773)Met+(0.0529)Orn;0.774,0.809,0.759,0.741,0.770,0.827,0.736,0.769,(6.4328)+(-0.0080)Asn+(0.0027)Gly+(-0.1164)His+(0.0000)Val+(-0.0731)Met+(0.0366)Orn;0.774,0.807,0.764,0.736,0.767,0.826,0.788,0.779,(6.7094)+(-0.0135)Asn+(-0.1232)His+(-0.0042)Ala+(-0.0059)Arg+(0.0347)Orn+(0.0112)Leu;0.774,0.805,0.765,0.759,0.761,0.822,0.750,0.773,(7.4227)+(-0.0357)Asn+(-0.1191)His+(0.0213)Thr+(-0.0025)Ala+(-0.0149)Tyr+(0.0027)Val;0.774,0.805,0.751,0.746,0.752,0.809,0.719,0.757,(7.1640)+(-0.0408)Asn+(0.0014)Gly+(-0.1213)His+(0.0203)Thr+(-0.0171)Tyr+(0.0016)Val;0.774,0.804,0.743,0.720,0.746,0.826,0.742,0.758,(6.1577)+(0.0035)Gly+(-0.1313)His+(0.0168)Thr+(-0.0053)Ala+(-0.0444)Cit+(0.0207)Leu;0.774,0.812,0.817,0.8

26,0.830,0.808,0.774,0.809,(6.2889)+(0.0011)Gly+(-0.0085)Arg+(0.0232)Tyr+(-0.1480)Met+(0.0102)Lys+(-0.1415)Trp;0.774,0.806,0.733,0.710,0.753,0.809,0.695,0.742,(6.2025)+(0.0018)Gly+(-0.1358)His+(0.0143)Thr+(-0.0169)Arg+(0.0302)Orn+(-0.0000)Lys;0.774,0.805,0.759,0.753,0.750,0.830,0.741,0.769,(7.1242)+(-0.1089)His+(0.0177)Thr+(-0.0055)Ala+(-0.0378)Cit+(0.0102)Pro+(-0.0187)Tyr;0.774,0.812,0.746,0.754,0.762,0.823,0.635,0.744,(2.9998)+(0.0375)Ser+(-0.1382)Asn+(-0.0011)Thr+(-0.1038)Cit+(-0.0397)Tyr+(0.0509)Orn;0.774,0.810,0.742,0.718,0.768,0.820,0.696,0.750,(6.4238)+(0.0033)Gly+(-0.1140)His+(-0.0699)Cit+(-0.0013)Arg+(-0.0186)Tyr+(0.0556)Orn;0.774,0.808,0.753,0.739,0.759,0.816,0.734,0.762,(6.6598)+(-0.0272)Asn+(0.0022)Gly+(-0.1165)His+(-0.0143)Tyr+(-0.0011)Val+(0.0385)Orn;0.774,0.805,0.738,0.740,0.714,0.820,0.722,0.749,(3.1964)+(-0.1044)Cit+(-0.0037)Pro+(-0.0534)Tyr+(0.0413)Orn+(0.1614)Ile+(-0.0869)Leu;0.774,0.802,0.740,0.740,0.686,0.811,0.802,0.760,(4.1240)+(-0.0466)Cit+(-0.0151)Arg+(0.0010)Pro+(-0.0370)Tyr+(-0.0500)Val+(0.1586)Ile;0.774,0.801,0.744,0.731,0.749,0.806,0.725,0.753,(6.7393)+(-0.0485)Asn+(0.0023)Gly+(-0.1215)His+(0.0165)Thr+(0.0047)Pro+(-0.0016)Val;0.774,0.808,0.749,0.730,0.764,0.817,0.720,0.758,(6.2576)+(0.0034)Gly+(-0.1144)His+(-0.0067)Arg+(0.0068)Pro+(-0.0990)Met+(0.0340)Orn;0.774,0.806,0.756,0.729,0.762,0.786,0.795,0.768,(5.3047)+(-0.0296)Asn+(-0.1282)His+(-0.0315)Cit+(-0.0002)Arg+(0.0020)Pro+(0.0777)Phe;0.774,0.805,0.754,0.745,0.750,0.827,0.730,0.763,(6.7559)+(0.0019)Gly+(-0.1215)His+(0.0169)Thr+(-0.0051)Ala+(-0.0141)Arg+(0.0084)Pro;0.774,0.818,0.710,0.717,0.709,0.754,0.659,0.710,(-3.3873)+(0.0481)Ser+(0.0110)Pro+(-0.0241)Tyr+(-0.3623)Met+(-0.0104)Lys+(0.1190)Phe;0.774,0.806,0.749,0.724,0.744,0.799,0.786,0.763,(6.5030)+(-0.0062)Asn+(-0.1144)His+(-0.0329)Cit+(-0.0251)Tyr+(-0.0005)Lys+(0.0539)Ile;0.774,0.818,0.717,0.740,0.722,0.746,0.622,0.708,(-3.553

2)+(0.0403)Ser+(0.0149)Thr+(-0.0235)Tyr+(-0.3966)Met+(-0.0045)Leu+(0.1217)Phe;0.774,0.807,0.765,0.744,0.764,0.828,0.778,0.778,(6.8273)+(-0.0169)Asn+(-0.1126)His+(-0.0055)Ala+(-0.0079)Arg+(0.0082)Pro+(0.0352)Orn;0.774,0.806,0.782,0.801,0.792,0.837,0.668,0.775,(1.7012)+(0.0353)Ser+(-0.1054)Asn+(0.0050)Gln+(0.0130)Thr+(-0.0751)Cit+(-0.2066)Met;0.774,0.806,0.735,0.737,0.713,0.817,0.719,0.747,(3.2127)+(-0.0003)Gly+(-0.1031)Cit+(-0.0566)Tyr+(0.0400)Orn+(0.1555)Ile+(-0.0856)Leu;0.774,0.800,0.739,0.748,0.680,0.801,0.793,0.755,(4.0765)+(-0.0248)Arg+(-0.0003)Pro+(-0.0348)Tyr+(-0.0403)Val+(0.1916)Ile+(-0.0398)Leu;0.774,0.817,0.747,0.757,0.735,0.768,0.729,0.747,(-2.6209)+(0.0556)Ser+(-0.0070)Gly+(-0.0226)Tyr+(-0.3093)Met+(-0.0097)Lys+(0.1155)Phe;0.774,0.812,0.708,0.696,0.723,0.788,0.653,0.715,(-1.6545)+(0.0453)Ser+(0.0107)Thr+(-0.0188)Arg+(0.0038)Pro+(-0.3742)Met+(0.0626)Ile;0.774,0.811,0.721,0.693,0.705,0.837,0.744,0.745,(0.7521)+(0.0364)Ser+(-0.0044)Gly+(-0.0812)Cit+(-0.0205)Lys+(0.1549)Ile+(-0.0757)Leu;0.774,0.810,0.733,0.743,0.735,0.773,0.677,0.732,(-3.4257)+(0.0466)Ser+(0.0003)Gln+(-0.3555)Met+(-0.0096)Lys+(0.0007)Leu+(0.1119)Phe;0.774,0.808,0.753,0.738,0.756,0.808,0.747,0.762,(6.8044)+(-0.0273)Asn+(-0.1106)His+(0.0061)Pro+(-0.0219)Tyr+(-0.0033)Val+(0.0382)Orn;0.774,0.805,0.749,0.712,0.753,0.804,0.801,0.767,(6.1232)+(-0.0113)Asn+(-0.1183)His+(-0.0385)Cit+(0.0049)Arg+(-0.0045)Lys+(0.0505)Ile;0.774,0.812,0.818,0.823,0.815,0.820,0.808,0.817,(6.6261)+(-0.0475)Asn+(0.0012)Gly+(-0.0040)Ala+(0.0055)Tyr+(0.0142)Leu+(-0.1394)Trp;0.774,0.809,0.819,0.826,0.814,0.813,0.813,0.817,(6.7210)+(-0.0518)Asn+(-0.0038)Ala+(0.0031)Tyr+(0.0043)Lys+(0.0119)Leu+(-0.1411)Trp;0.774,0.806,0.763,0.756,0.754,0.823,0.759,0.773,(6.3001)+(0.0040)Gly+(-0.1104)His+(-0.0046)Ala+(0.0124)Pro+(-0.1178)Met+(0.0107)Lys;0.774,0.812,0.829,0.849,0.815,0.822,0.812,0.824,(4.9635)+(-0.0020)Gly+(0.0045)Gln+(-0.0039)Ala+(-0.0033)Tyr+(0.0002)Lys+(-0.1429)

Trp;0.774,0.810,0.774,0.782,0.714,0.833,0.835,0.791,(1.2441)+(0.0017)Gly+(-0.0113)Ala+(-0.0302)Arg+(0.1803)Ile+(-0.1009)Leu+(0.0608)Phe;0.774,0.810,0.802,0.808,0.798,0.804,0.793,0.801,(5.6731)+(-0.0009)Gly+(-0.0051)Ala+(-0.0066)Tyr+(0.0210)Orn+(0.0106)Leu+(-0.1447)Trp;0.774,0.809,0.804,0.811,0.806,0.812,0.777,0.801,(6.0190)+(-0.0003)Gly+(-0.0050)Ala+(-0.0132)Arg+(0.0252)Orn+(0.0101)Leu+(-0.1431)Trp;0.774,0.800,0.742,0.756,0.680,0.807,0.789,0.758,(3.4065)+(0.0019)Gln+(-0.0282)Arg+(-0.0365)Tyr+(-0.0391)Val+(0.1912)Ile+(-0.0425)Leu;0.774,0.812,0.771,0.779,0.744,0.839,0.754,0.779,(1.7951)+(0.0054)Gln+(0.0159)Thr+(-0.0284)Arg+(-0.2860)Met+(0.1741)Ile+(-0.0848)Leu;0.774,0.809,0.768,0.773,0.729,0.822,0.795,0.780,(1.7424)+(0.0038)Gln+(-0.0128)Tyr+(-0.2504)Met+(0.0049)Orn+(0.1669)Ile+(-0.0813)Leu;0.774,0.814,0.806,0.820,0.815,0.800,0.755,0.797,(6.7775)+(-0.0576)Asn+(-0.0113)Arg+(-0.0072)Tyr+(0.0260)Orn+(0.0055)Lys+(-0.1355)Trp;0.774,0.811,0.825,0.840,0.820,0.819,0.802,0.820,(7.0758)+(-0.0585)Asn+(-0.0027)Ala+(0.0053)Tyr+(-0.0009)Val+(0.0075)Lys+(-0.1345)Trp;0.774,0.806,0.758,0.726,0.761,0.860,0.765,0.778,(3.2324)+(0.0048)Gly+(-0.0135)Ala+(-0.1378)Cit+(0.0531)Orn+(-0.0229)Lys+(0.0664)Ile;0.774,0.806,0.761,0.740,0.759,0.821,0.779,0.775,(6.5583)+(0.0039)Gly+(-0.1113)His+(0.0040)Arg+(-0.0221)Val+(-0.1189)Met+(0.0553)Leu;0.774,0.807,0.733,0.719,0.707,0.841,0.745,0.753,(0.5364)+(0.0257)Ser+(-0.0133)Ala+(-0.1224)Cit+(-0.0404)Tyr+(0.0372)Orn+(0.0579)Ile;0.774,0.810,0.749,0.760,0.764,0.825,0.634,0.746,(3.2426)+(0.0365)Ser+(-0.1382)Asn+(-0.1040)Cit+(-0.0383)Tyr+(0.0522)Orn+(-0.0036)Leu;0.774,0.811,0.711,0.700,0.725,0.790,0.655,0.718,(-1.7094)+(0.0442)Ser+(0.0003)Gln+(0.0114)Thr+(-0.0185)Arg+(-0.3679)Met+(0.0667)Ile;0.774,0.801,0.758,0.739,0.737,0.815,0.811,0.775,(6.7684)+(-0.1130)His+(-0.0050)Ala+(0.0093)Pro+(-0.0088)Tyr+(-0.0193)Val+(0.0430)Leu;0.774,0.813,0.765,0.759,0.754,0.840,0.753,0.776,(3.6861)+(-0.0160)Asn+(0.

0051)Gly+(-0.0744)Cit+(-0.2004)Met+(0.1705)Ile+(-0.0791)Leu;0.774,0.813,0.715,0.713,0.709,0.784,0.684,0.722,(1.4351)+(0.0421)Ser+(-0.1320)Asn+(-0.0736)Cit+(0.0026)Pro+(-0.0466)Tyr+(0.0449)Ile;0.774,0.807,0.760,0.728,0.786,0.825,0.742,0.770,(6.6504)+(-0.1064)His+(-0.0619)Cit+(0.0057)Pro+(-0.1071)Met+(0.0490)Orn+(0.0028)Lys;0.774,0.803,0.718,0.713,0.646,0.793,0.830,0.745,(1.2941)+(0.0345)Ser+(-0.0107)Gly+(-0.0046)Thr+(-0.0467)Tyr+(-0.0493)Val+(0.1509)Ile;0.774,0.798,0.733,0.701,0.750,0.802,0.734,0.747,(6.4872)+(-0.1351)His+(0.0184)Thr+(-0.0345)Cit+(0.0014)Pro+(-0.0062)Lys+(0.0158)Leu;0.774,0.813,0.745,0.736,0.700,0.836,0.798,0.767,(0.0147)+(0.0410)Ser+(-0.1383)Asn+(0.0022)Gln+(-0.0135)Thr+(0.1492)Ile+(-0.0795)Leu;0.774,0.810,0.743,0.737,0.703,0.833,0.780,0.763,(0.4378)+(0.0359)Ser+(-0.1593)Asn+(0.0020)Gln+(-0.0042)Pro+(0.1484)Ile+(-0.0779)Leu;0.774,0.821,0.744,0.749,0.744,0.849,0.655,0.749,(1.5198)+(0.0328)Ser+(0.0256)Thr+(-0.0160)Arg+(-0.0452)Val+(-0.3513)Met+(0.0823)Leu;0.774,0.813,0.819,0.819,0.826,0.810,0.812,0.817,(6.0752)+(-0.0031)Ala+(0.0224)Tyr+(-0.1450)Met+(0.0052)Lys+(0.0155)Leu+(-0.1443)Trp;0.774,0.805,0.737,0.731,0.679,0.800,0.830,0.760,(1.8697)+(-0.0003)Gln+(-0.0319)Arg+(-0.0028)Pro+(-0.0598)Val+(0.1636)Ile+(0.0402)Phe;0.774,0.807,0.728,0.695,0.741,0.803,0.737,0.744,(5.5110)+(0.0029)Gly+(-0.1375)His+(0.0021)Pro+(0.0278)Orn+(-0.0026)Lys+(0.0096)Leu;0.774,0.805,0.765,0.738,0.790,0.831,0.741,0.775,(7.1130)+(-0.0088)Asn+(-0.1022)His+(-0.0663)Cit+(-0.0015)Val+(-0.0671)Met+(0.0558)Orn;0.774,0.801,0.723,0.704,0.735,0.793,0.700,0.733,(6.2729)+(0.0024)Gly+(-0.1345)His+(0.0188)Thr+(-0.0368)Cit+(-0.0245)Tyr+(0.0181)Leu;0.774,0.797,0.753,0.736,0.744,0.809,0.777,0.767,(6.7681)+(-0.0476)Asn+(0.0038)Gly+(-0.1153)His+(-0.0230)Val+(0.0042)Lys+(0.0473)Leu;0.774,0.808,0.758,0.733,0.778,0.822,0.736,0.767,(7.1835)+(-0.0245)Asn+(-0.1048)His+(-0.0689)Cit+(0.0023)Arg+(-0.0210)Tyr+(0.0574)Orn;0.774,0.814,0.755,0.

752,0.742,0.838,0.726,0.765,(3.2077)+(0.0250)Thr+(0.0091)Pro+(-0.0503)Val+(-0.3524)Met+(0.0203)Orn+(0.0767)Leu;0.774,0.806,0.743,0.721,0.732,0.791,0.788,0.758,(6.2383)+(-0.1236)His+(-0.0042)Arg+(0.0007)Pro+(-0.0271)Tyr+(0.0008)Lys+(0.0510)Ile;0.774,0.802,0.755,0.743,0.751,0.820,0.749,0.766,(6.4595)+(0.0015)Gly+(-0.1310)His+(0.0150)Thr+(-0.0035)Ala+(0.0034)Val+(-0.0002)Lys;0.773,0.804,0.761,0.734,0.765,0.822,0.778,0.775,(6.3417)+(0.0047)Gly+(-0.1118)His+(0.0204)Tyr+(-0.0245)Val+(-0.1459)Met+(0.0580)Leu;0.773,0.814,0.731,0.738,0.736,0.777,0.669,0.730,(-3.3336)+(0.0461)Ser+(-0.0000)Gln+(-0.3523)Met+(0.0091)Orn+(-0.0108)Lys+(0.1099)Phe;0.773,0.804,0.763,0.733,0.788,0.829,0.741,0.773,(6.9435)+(-0.0063)Asn+(-0.1061)His+(-0.0646)Cit+(-0.0790)Met+(0.0530)Orn+(0.0023)Lys;0.773,0.803,0.732,0.723,0.681,0.816,0.802,0.756,(3.3770)+(0.0119)Thr+(-0.0294)Arg+(-0.0026)Pro+(-0.0566)Val+(-0.0111)Lys+(0.1714)Ile;0.773,0.815,0.774,0.758,0.774,0.833,0.771,0.784,(3.3882)+(0.0265)Thr+(-0.0096)Ala+(-0.0895)Cit+(-0.0087)Tyr+(-0.2618)Met+(0.0747)Ile;0.773,0.815,0.804,0.818,0.807,0.787,0.772,0.796,(6.9050)+(-0.0573)Asn+(-0.0091)Arg+(0.0070)Pro+(-0.0087)Tyr+(0.0079)Lys+(-0.1387)Trp;0.773,0.811,0.801,0.820,0.806,0.820,0.727,0.793,(6.5166)+(0.0176)Thr+(-0.0040)Ala+(-0.0168)Arg+(-0.0022)Tyr+(0.0010)Val+(-0.1458)Trp;0.773,0.810,0.765,0.750,0.773,0.833,0.743,0.775,(6.6926)+(0.0027)Gly+(-0.1138)His+(-0.0022)Ala+(-0.0073)Arg+(-0.0574)Met+(0.0398)Orn;0.773,0.809,0.741,0.712,0.761,0.804,0.729,0.751,(6.5959)+(-0.0369)Asn+(-0.1353)His+(0.0184)Thr+(-0.0131)Arg+(0.0265)Orn+(0.0081)Leu;0.773,0.803,0.729,0.755,0.665,0.746,0.781,0.737,(0.6468)+(-0.0037)Gly+(0.0007)Gln+(-0.0836)Tyr+(0.1613)Ile+(-0.1001)Leu+(0.0834)Phe;0.773,0.811,0.801,0.821,0.805,0.818,0.727,0.793,(6.4682)+(0.0170)Thr+(-0.0039)Ala+(-0.0180)Arg+(-0.0024)Tyr+(0.0023)Lys+(-0.1460)Trp;0.773,0.807,0.745,0.719,0.766,0.812,0.724,0.755,(6.7009)+(-0.1104)His+(-0.0657)Cit+(0.0049)Pro+(-

0.0275)Tyr+(0.0543)Orn+(-0.0006)Lys;0.773,0.801,0.757,0.738,0.744,0.822,0.785,0.772,(6.4998)+(0.0032)Gly+(-0.1210)His+(-0.0031)Ala+(-0.0027)Arg+(-0.0176)Val+(0.0444)Leu;0.773,0.808,0.715,0.691,0.697,0.828,0.734,0.737,(-0.4686)+(0.0340)Ser+(-0.0272)Thr+(-0.1034)Cit+(0.0366)Orn+(0.1671)Ile+(-0.0948)Leu;0.773,0.807,0.757,0.734,0.778,0.821,0.733,0.766,(7.2012)+(-0.0238)Asn+(-0.1053)His+(-0.0665)Cit+(-0.0214)Tyr+(0.0568)Orn+(0.0010)Lys;0.773,0.802,0.712,0.716,0.647,0.784,0.789,0.734,(3.2870)+(-0.0023)Gln+(-0.0472)Tyr+(-0.0422)Val+(0.0209)Orn+(0.1793)Ile+(-0.0340)Leu;0.773,0.815,0.735,0.750,0.745,0.772,0.649,0.729,(-3.6134)+(0.0470)Ser+(0.0006)Gln+(-0.0194)Arg+(-0.3655)Met+(0.0073)Orn+(0.1088)Phe;0.773,0.814,0.763,0.762,0.785,0.835,0.671,0.763,(7.4227)+(0.0024)Gly+(-0.1090)His+(0.0297)Thr+(-0.0312)Cit+(-0.0068)Arg+(-0.1418)Met;0.773,0.810,0.757,0.732,

0.753,0.822,0.784,0.773,(6.4860)+(-0.1269)His+(-0.0037)Ala+(-0.0171)Tyr+(0.0349)Orn+(0.0003)Lys+(0.0133)Leu;0.773,0.809,0.773,0.754,0.777,0.833,0.775,0.785,(6.8314)+(-0.0043)Asn+(-0.1131)His+(-0.0023)Ala+(0.0004)Val+(-0.0597)Met+(0.0386)Orn;0.773,0.809,0.731,0.699,0.752,0.805,0.722,0.744,(6.2125)+(-0.1415)His+(0.0166)Thr+(-0.0137)Arg+(0.0269)Orn+(-0.0038)Lys+(0.0100)Leu;0.773,0.807,0.771,0.752,0.775,0.828,0.771,0.781,(7.0709)+(-0.0169)Asn+(-0.1132)His+(-0.0029)Ala+(-0.0076)Arg+(-0.0012)Val+(0.0402)Orn;0.773,0.814,0.817,0.837,0.811,0.800,0.791,0.810,(4.9160)+(-0.0025)Gly+(0.0042)Gln+(-0.0121)Tyr+(-0.0005)Val+(-0.0005)Lys+(-0.1457)Trp;0.773,0.813,0.809,0.824,0.811,0.819,0.762,0.804,(6.3173)+(-0.0039)Ala+(-0.0137)Arg+(-0.0005)Tyr+(-0.0015)Val+(0.0301)Orn+(-0.1331)Trp;0.773,0.810,0.748,0.733,0.782,0.847,0.643,0.751,(2.7508)+(0.0391)Ser+(-0.1282)Asn+(-0.1094)Cit+(0.0535)Orn+(-0.0159)Lys+(0.0002)Leu;0.773,0.809,0.826,0.838,0.825,0.828,0.798,0.822,(7.0939)+(-0.0476)Asn+(0.0009)Gly+(-0.0028)Ala+(0.0087)Tyr+(0.0009)Val+(-0.1313)

Trp;0.773,0.817,0.743,0.737,0.734,0.851,0.701,0.756,(0.6293)+(0.0342)Ser+(0.0198)Thr+(0.0158)Tyr+(-0.0473)Val+(-0.3877)Met+(0.0851)Leu;0.773,0.795,0.735,0.717,0.726,0.795,0.759,0.749,(6.2272)+(0.0027)Gly+(-0.1228)His+(0.0056)Pro+(-0.0130)Tyr+(-0.0191)Val+(0.0415)Leu;0.773,0.813,0.782,0.796,0.791,0.778,0.729,0.774,(5.8330)+(-0.0156)Arg+(0.0051)Pro+(-0.0160)Tyr+(0.0220)Orn+(0.0040)Leu+(-0.1442)Trp;0.773,0.813,0.790,0.789,0.770,0.853,0.790,0.800,(5.2360)+(-0.0877)Asn+(0.0354)Thr+(-0.0024)Ala+(-0.0505)Val+(-0.2485)Met+(0.0875)Leu;0.773,0.810,0.787,0.788,0.723,0.858,0.862,0.808,(3.6586)+(-0.0769)Asn+(0.0018)Gly+(0.0008)Thr+(-0.0099)Ala+(0.1642)Ile+(-0.0818)Leu;0.773,0.810,0.761,0.757,0.737,0.820,0.780,0.773,(3.0667)+(-0.0241)Asn+(0.0123)Thr+(-0.2608)Met+(0.0053)Orn+(0.1604)Ile+(-0.0785)Leu;0.773,0.809,0.807,0.823,0.813,0.816,0.748,0.800,(6.7590)+(-0.0021)Gly+(0.0183)Thr+(-0.0040)Ala+(-0.0177)Arg+(0.0019)Lys+(-0.1477)Trp;0.773,0.807,0.811,0.824,0.783,0.804,0.841,0.813,(-0.1866)+(0.0051)Gln+(-0.0027)Ala+(-0.0397)Val+(-0.3419)Met+(0.0575)Leu+(0.1072)Phe;0.773,0.815,0.802,0.811,0.808,0.788,0.777,0.796,(6.8571)+(-0.0486)Asn+(-0.0051)Arg+(0.0061)Pro+(-0.0074)Tyr+(0.0073)Leu+(-0.1386)Trp;0.773,0.804,0.752,0.733,0.758,0.815,0.741,0.762,(6.3437)+(-0.0378)Asn+(0.0027)Gly+(-0.1201)His+(-0.0031)Val+(0.0348)Orn+(0.0035)Lys;0.773,0.813,0.761,0.750,0.782,0.820,0.705,0.764,(7.0429)+(-0.1165)His+(0.0288)Thr+(-0.0332)Cit+(0.0039)Val+(-0.1700)Met+(0.0045)Lys;0.773,0.809,0.820,0.837,0.817,0.816,0.783,0.814,(7.0710)+(-0.0538)Asn+(0.0010)Gly+(-0.0025)Ala+(-0.0071)Arg+(0.0091)Lys+(-0.1341)Trp;0.773,0.816,0.736,0.736,0.722,0.827,0.699,0.746,(0.9985)+(0.0423)Ser+(-0.0104)Arg+(0.0131)Pro+(-0.0401)Val+(-0.3145)Met+(0.0668)Leu;0.773,0.808,0.739,0.735,0.751,0.796,0.685,0.742,(0.0945)+(0.0493)Ser+(-0.1507)Asn+(-0.0809)Cit+(0.0000)Arg+(-0.0165)Lys+(0.0807)Phe;0.773,0.807,0.749,0.758,0.779,0.807,0.624,0.742,(2.0904)+(0.0411)Ser+(-0.082

0)Asn+(0.0152)Thr+(-0.0710)Cit+(-0.2400)Met+(0.0113)Leu;0.773,0.806,0.739,0.709,0.768,0.825,0.696,0.749,(6.1392)+(0.0039)Gly+(-0.1173)His+(-0.0722)Cit+(-0.0006)Val+(0.0537)Orn+(-0.0030)Lys;0.773,0.815,0.782,0.791,0.799,0.783,0.719,0.773,(5.7503)+(0.0137)Thr+(-0.0200)Arg+(0.0037)Pro+(-0.0014)Lys+(0.0069)Leu+(-0.1594)Trp;0.773,0.814,0.741,0.731,0.697,0.838,0.790,0.764,(0.2613)+(0.0433)Ser+(-0.1283)Asn+(-0.0114)Ala+(-0.0170)Arg+(0.0074)Pro+(0.0492)Ile;0.773,0.813,0.793,0.802,0.807,0.789,0.745,0.786,(5.8040)+(-0.0009)Gly+(-0.0175)Arg+(0.0043)Pro+(0.0211)Orn+(0.0012)Lys+(-0.1486)Trp;0.773,0.802,0.719,0.728,0.648,0.790,0.794,0.740,(2.4163)+(-0.0035)Pro+(-0.0466)Tyr+(-0.0407)Val+(0.0178)Orn+(0.1843)Ile+(-0.0382)Leu;0.773,0.799,0.739,0.729,0.741,0.796,0.718,0.746,(6.5587)+(0.0008)Gly+(-0.1311)His+(0.0167)Thr+(-0.0201)Tyr+(0.0027)Val+(0.0006)Lys;0.773,0.806,0.700,0.694,0.680,0.802,0.688,0.716,(-1.9831)+(0.0359)Ser+(-0.0017)Gln+(-0.0483)Arg+(0.1742)Ile+(-0.1095)Leu+(0.0593)Phe;0.773,0.814,0.796,0.802,0.795,0.791,0.789,0.794,(6.0970)+(-0.0105)Arg+(-0.0020)Tyr+(-0.0228)Val+(0.0020)Lys+(0.0465)Leu+(-0.1471)Trp;0.773,0.812,0.706,0.685,0.710,0.795,0.692,0.720,(-1.5039)+(0.0447)Ser+(0.0087)Thr+(0.0027)Pro+(-0.3479)Met+(-0.0132)Lys+(0.0701)Ile;0.773,0.800,0.760,0.738,0.742,0.819,0.814,0.778,(6.7943)+(-0.1134)His+(-0.0052)Ala+(-0.0037)Arg+(0.0091)Pro+(-0.0202)Val+(0.0437)Leu;0.773,0.811,0.807,0.815,0.810,0.799,0.787,0.803,(6.1069)+(0.0009)Gly+(-0.0026)Ala+(-0.1165)Met+(0.0054)Lys+(0.0162)Leu+(-0.1400)Trp;0.773,0.811,0.764,0.730,0.803,0.807,0.743,0.771,(1.8614)+(-0.0904)Cit+(-0.2646)Met+(0.0347)Orn+(-0.0162)Lys+(0.0433)Ile+(0.0687)Phe;0.773,0.803,0.753,0.746,0.747,0.817,0.739,0.762,(6.6956)+(0.0009)Gly+(-0.1285)His+(0.0172)Thr+(-0.0029)Ala+(-0.0149)Tyr+(0.0041)Val;0.773,0.801,0.762,0.756,0.757,0.822,0.744,0.770,(7.0347)+(-0.0459)Asn+(0.0020)Gly+(-0.1202)His+(0.0180)Thr+(-0.0028)Ala+(0.0032)Lys;0.773,0.811,0.825,0.833,

0.830,0.824,0.794,0.820,(6.5139)+(0.0011)Gly+(-0.0023)Ala+(0.0246)Tyr+(0.0024)Val+(-0.1181)Met+(-0.1348)Trp;0.773,0.804,0.760,0.739,0.758,0.825,0.774,0.774,(6.4786)+(-0.1195)His+(-0.0058)Ala+(-0.0113)Arg+(0.0081)Pro+(0.0332)Orn+(0.0035)Lys;0.773,0.813,0.772,0.773,0.736,0.831,0.802,0.786,(1.6226)+(0.0041)Gln+(-0.2674)Met+(0.0044)Orn+(-0.0025)Lys+(0.1667)Ile+(-0.0807)Leu;0.773,0.810,0.784,0.781,0.724,0.858,0.867,0.807,(3.7768)+(-0.0776)Asn+(-0.0108)Ala+(0.0039)Pro+(0.0119)Orn+(0.1554)Ile+(-0.0814)Leu;0.773,0.810,0.756,0.736,0.787,0.847,0.679,0.762,(2.8618)+(0.0437)Ser+(-0.1245)Asn+(-0.0037)Gly+(-0.1046)Cit+(0.0528)Orn+(-0.0165)Lys;0.773,0.805,0.749,0.729,0.750,0.781,0.780,0.760,(5.0975)+(-0.1297)His+(-0.0257)Cit+(-0.0059)Arg+(0.0037)Pro+(-0.0069)Val+(0.0879)Phe;0.773,0.816,0.796,0.811,0.808,0.796,0.733,0.787,(4.7068)+(0.0036)Gln+(0.0127)Thr+(-0.0220)Arg+(-0.0028)Lys+(0.0084)Leu+(-0.1620)Trp;0.773,0.815,0.729,0.712,0.699,0.832,0.760,0.751,(0.9448)+(0.0389)Ser+(-0.1359)Asn+(0.0091)Orn+(-0.0102)Lys+(0.1391)Ile+(-0.0716)Leu;0.773,0.814,0.820,0.832,0.807,0.814,0.821,0.818,(4.6194)+(-0.0016)Gly+(0.0041)Gln+(-0.0051)Ala+(-0.0054)Tyr+(0.0132)Leu+(-0.1518)Trp;0.773,0.808,0.708,0.690,0.708,0.783,0.703,0.721,(-2.1521)+(0.0475)Ser+(-0.0004)Gln+(0.0037)Pro+(-0.3666)Met+(-0.0042)Orn+(0.0642)Ile;0.773,0.806,0.746,0.726,0.754,0.813,0.737,0.757,(6.2913)+(-0.0372)Asn+(0.0028)Gly+(-0.1168)His+(0.0049)Pro+(-0.0040)Val+(0.0339)Orn;0.773,0.805,0.785,0.789,0.757,0.790,0.826,0.791,(1.8783)+(-0.0056)Ala+(0.0135)Pro+(-0.0381)Val+(-0.3181)Met+(0.0523)Leu+(0.1021)Phe;0.773,0.804,0.747,0.709,0.749,0.806,0.801,0.766,(6.0397)+(-0.1207)His+(-0.0387)Cit+(0.0046)Arg+(-0.0017)Pro+(-0.0052)Lys+(0.0534)Ile;0.773,0.802,0.753,0.744,0.748,0.834,0.731,0.764,(6.5973)+(0.0029)Gly+(-0.1135)His+(0.0139)Thr+(-0.0061)Ala+(-0.0431)Cit+(0.0095)Pro;0.773,0.815,0.818,0.831,0.804,0.818,0.816,0.817,(4.5172)+(0.0041)Gln+(-0.0052)Ala+(-0.0028)Tyr+(-0.0031

)Lys+(0.0150)Leu+(-0.1509)Trp;0.773,0.811,0.750,0.736,0.783,0.846,0.648,0.753,(2.6994)+(0.0399)Ser+(-0.1255)Asn+(-0.0026)Thr+(-0.1091)Cit+(0.0544)Orn+(-0.0153)Lys;0.773,0.818,0.724,0.706,0.750,0.793,0.671,0.730,(-0.4921)+(0.0475)Ser+(-0.1748)Asn+(-0.0094)Thr+(-0.1031)Cit+(0.0368)Orn+(0.0550)Phe;0.773,0.812,0.763,0.783,0.716,0.795,0.786,0.770,(0.0420)+(0.0535)Ser+(-0.1525)Asn+(-0.0064)Gly+(-0.0053)Ala+(-0.0576)Tyr+(0.0938)Phe;0.773,0.804,0.738,0.740,0.716,0.819,0.725,0.750,(3.3307)+(-0.0045)Thr+(-0.1023)Cit+(-0.0531)Tyr+(0.0422)Orn+(0.1571)Ile+(-0.0868)Leu;0.773,0.816,0.802,0.824,0.800,0.793,0.753,0.792,(4.7357)+(0.0043)Gln+(-0.0186)Arg+(0.0063)Pro+(-0.0145)Tyr+(0.0028)Lys+(-0.1490)Trp;0.773,0.802,0.736,0.735,0.680,0.806,0.806,0.757,(3.5656)+(0.0000)Gln+(-0.0615)Cit+(-0.0002)Pro+(-0.0425)Tyr+(-0.0479)Val+(0.1538)Ile;0.773,0.799,0.751,0.733,0.740,0.820,0.772,0.766,(6.2174)+(0.0040)Gly+(-0.1235)His+(-0.0058)Ala+(-0.0054)Arg+(0.0083)Pro+(0.0150)Leu;0.773,0.811,0.784,0.783,0.770,0.842,0.770,0.791,(5.1733)+(-0.0909)Asn+(0.0002)Gly+(0.0354)Thr+(-0.0518)Val+(-0.2608)Met+(0.0872)Leu;0.773,0.802,0.810,0.827,0.791,0.796,0.814,0.807,(-0.2715)+(0.0059)Gln+(-0.0094)Arg+(-0.0398)Val+(-0.3520)Met+(0.0550)Leu+(0.1091)Phe;0.773,0.799,0.691,0.666,0.651,0.808,0.753,0.720,(1.2775)+(0.0267)Ser+(-0.0037)Gln+(-0.0670)Cit+(-0.0404)Val+(0.1831)Ile+(-0.0381)Leu;0.773,0.811,0.808,0.810,0.822,0.796,0.782,0.802,(5.7858)+(0.0012)Gly+(0.0197)Tyr+(-0.1649)Met+(0.0053)Lys+(0.0133)Leu+(-0.1458)Trp;0.773,0.811,0.823,0.842,0.809,0.824,0.801,0.819,(4.7113)+(0.0041)Gln+(-0.0043)Ala+(-0.0021)Tyr+(0.0016)Val+(-0.0004)Lys+(-0.1449)Trp;0.773,0.817,0.708,0.676,0.740,0.782,0.675,0.718,(-0.6167)+(0.0450)Ser+(-0.1886)Asn+(-0.1027)Cit+(0.0286)Orn+(0.0172)Ile+(0.0436)Phe;0.773,0.813,0.763,0.767,0.745,0.834,0.738,0.771,(2.7025)+(0.0023)Gln+(0.0274)Thr+(0.0097)Pro+(-0.0482)Val+(-0.3689)Met+(0.0763)Leu;0.773,0.807,0.764,0.734,0.790,0.830,0.744,0.775,

(6.9502)+(-0.0074)Asn+(-0.1049)His+(-0.0690)Cit+(0.0039)Arg+(-0.0755)Met+(0.0546)Orn;0.773,0.804,0.766,0.750,0.773,0.830,0.752,0.776,(6.8274)+(0.0058)Gly+(-0.1122)His+(-0.0033)Ala+(-0.0389)Cit+(-0.0797)Met+(0.0244)Leu;0.773,0.814,0.807,0.818,0.817,0.797,0.765,0.799,(6.6103)+(-0.0583)Asn+(-0.0112)Arg+(0.0238)Orn+(0.0042)Lys+(0.0030)Leu+(-0.1402)Trp;0.773,0.812,0.767,0.759,0.784,0.827,0.710,0.770,(7.3140)+(-0.0157)Asn+(-0.1100)His+(0.0286)Thr+(-0.0312)Cit+(-0.1537)Met+(0.0062)Lys;0.773,0.813,0.776,0.794,0.791,0.784,0.693,0.765,(5.8224)+(0.0139)Thr+(-0.0213)Arg+(-0.0179)Tyr+(0.0190)Orn+(0.0065)Leu+(-0.1523)Trp;0.773,0.812,0.830,0.847,0.816,0.824,0.816,0.826,(4.8693)+(-0.0019)Gly+(0.0044)Gln+(-0.0043)Ala+(0.0014)Val+(-0.0005)Lys+(-0.1453)Trp;0.773,0.810,0.748,0.733,0.782,0.847,0.643,0.751,(2.7578)+(0.0390)Ser+(-0.1290)Asn+(-0.1105)Cit+(0.0016)Arg+(0.0538)Orn+(-0.0161)Lys;0.773,0.807,0.735,0.708,0.755,0.806,0.713,0.745,(6.3109)+(-0.1349)His+(0.0148)Thr+(-0.0161)Arg+(0.0022)Pro+(0.0289)Orn+(-0.0008)Lys;0.773,0.806,0.754,0.749,0.761,0.810,0.715,0.759,(7.6213)+(-0.0384)Asn+(-0.1144)His+(0.0227)Thr+(-0.0327)Cit+(-0.0194)Tyr+(0.0022)Val;0.773,0.808,0.772,0.752,0.774,0.836,0.776,0.784,(6.6642)+(-0.0073)Asn+(-0.1158)His+(-0.0024)Ala+(-0.0737)Met+(0.0362)Orn+(0.0057)Lys;0.773,0.808,0.771,0.777,0.730,0.824,0.799,0.782,(1.7164)+(0.0041)Gln+(0.0002)Pro+(-0.0118)Tyr+(-0.2522)Met+(0.1677)Ile+(-0.0810)Leu;0.773,0.806,0.785,0.785,0.738,0.856,0.833,0.803,(4.2499)+(-0.0545)As
n+(-0.0095)Ala+(-0.0219)Arg+(0.0217)Orn+(0.1680)Ile+(-0.0879)Leu;0.773,0.805,0.763,0.735,0.787,0.830,0.740,0.773,(6.9049)+(-0.1057)His+(-0.0646)Cit+(-0.0014)Val+(-0.0823)Met+(0.0539)Orn+(0.0026)Lys;0.773,0.800,0.751,0.737,0.755,0.801,0.747,0.760,(6.9488)+(-0.0489)Asn+(-0.1207)His+(0.0172)Thr+(0.0046)Pro+(-0.0027)Val+(0.0022)Lys;0.773,0.812,0.749,0.723,0.763,0.818,0.742,0.761,(6.0328)+(0.0036)Gly+(-0.1263)His+(-

0.0028)Tyr+(-0.1030)Met+(0.0311)Orn+(0.0160)Leu;0.773,0.809,0.818,0.827,0.815,0.810,0.805,0.814,(6.8517)+(-0.0478)Asn+(-0.0036)Ala+(-0.0054)Arg+(0.0058)Lys+(0.0115)Leu+(-0.1404)Trp;0.773,0.809,0.760,0.757,0.735,0.821,0.774,0.772,(3.0284)+(-0.0240)Asn+(0.0008)Gly+(0.0130)Thr+(-0.2627)Met+(0.1614)Ile+(-0.0778)Leu;0.773,0.809,0.757,0.739,0.764,0.815,0.750,0.767,(6.5673)+(-0.1097)His+(0.0073)Pro+(-0.0103)Tyr+(-0.0021)Val+(-0.0858)Met+(0.0365)Orn;0.773,0.805,0.728,0.705,0.749,0.805,0.692,0.738,(6.0325)+(0.0021)Gly+(-0.1360)His+(0.0135)Thr+(-0.0171)Arg+(0.0026)Pro+(0.0285)Orn;0.773,0.805,0.764,0.761,0.764,0.827,0.724,0.769,(7.4792)+(-0.0356)Asn+(0.0020)Gly+(-0.1179)His+(0.0218)Thr+(-0.0025)Ala+(-0.0115)Arg;0.773,0.815,0.790,0.802,0.790,0.772,0.771,0.784,(5.7767)+(-0.0011)Gly+(0.0054)Pro+(-0.0163)Tyr+(-0.0006)Lys+(0.0075)Leu+(-0.1484)Trp;0.773,0.813,0.817,0.819,0.829,0.801,0.800,0.812,(6.4946)+(-0.0294)Asn+(0.0174)Tyr+(-0.1349)Met+(0.0070)Lys+(0.0115)Leu+(-0.1438)Trp;0.773,0.809,0.823,0.840,0.820,0.816,0.790,0.816,(7.2405)+(-0.0529)Asn+(-0.0023)Ala+(-0.0070)Arg+(-0.0009)Val+(0.0095)Lys+(-0.1333)Trp;0.773,0.807,0.706,0.705,0.680,0.805,0.693,0.721,(-2.3506)+(0.0336)Ser+(-0.0501)Arg+(-0.0005)Orn+(0.1748)Ile+(-0.1102)Leu+(0.0566)Phe;0.773,0.809,0.765,0.772,0.703,0.831,0.829,0.784,(3.3204)+(-0.0095)Ala+(-0.0382)Tyr+(0.0160)Orn+(-0.0075)Lys+(0.1664)Ile+(-0.0803)Leu;0.773,0.808,0.760,0.745,0.764,0.824,0.741,0.769,(6.7076)+(0.0022)Gly+(-0.1178)His+(-0.0027)Ala+(-0.0096)Arg+(-0.0101)Tyr+(0.0404)Orn;0.773,0.808,0.761,0.745,0.758,0.823,0.769,0.774,(6.5562)+(-0.1215)His+(-0.0029)Ala+(-0.0156)Tyr+(0.0003)Val+(0.0375)Orn+(0.0028)Lys;0.773,0.813,0.757,0.755,0.774,0.822,0.677,0.757,(6.9773)+(0.0021)Gly+(-0.1202)His+(0.0290)Thr+(-0.0159)Arg+(-0.1654)Met+(0.0099)Lys;0.773,0.803,0.766,0.745,0.764,0.853,0.766,0.782,(3.2852)+(-0.0891)Asn+(0.0062)Gly+(-0.0128)Ala+(-0.1261)Cit+(0.0449)Orn+(0.0513)Ile;0.773,0.803,0.767,0.758,0.76

3,0.823,0.763,0.776,(7.2153)+(-0.0403)Asn+(-0.1213)His+(0.0190)Thr+(-0.0031)Ala+(0.0011)Val+(0.0022)Lys;0.773,0.813,0.762,0.796,0.721,0.798,0.733,0.762,(-0.0509)+(0.0442)Ser+(-0.1587)Asn+(-0.0046)Ala+(-0.0514)Tyr+(-0.0112)Leu+(0.1059)Phe;0.773,0.813,0.770,0.764,0.788,0.833,0.699,0.771,(7.7625)+(-0.0095)Asn+(-0.1073)His+(0.0310)Thr+(-0.0282)Cit+(-0.0063)Arg+(-0.1352)Met;0.773,0.815,0.737,0.720,0.683,0.847,0.814,0.766,(0.4902)+(0.0446)Ser+(-0.1158)Asn+(-0.0110)Ala+(0.0070)Pro+(-0.0165)Lys+(0.0583)Ile;0.773,0.809,0.827,0.840,0.827,0.827,0.793,0.822,(7.1996)+(-0.0459)Asn+(0.0010)Gly+(-0.0026)Ala+(-0.0027)Arg+(0.0102)Tyr+(-0.1298)Trp;0.773,0.798,0.728,0.734,0.659,0.787,0.815,0.749,(3.2687)+(-0.0047)Gly+(-0.0519)Tyr+(-0.0416)Val+(0.0217)Orn+(0.1788)Ile+(-0.0357)Leu;0.773,0.812,0.787,0.782,0.731,0.858,0.868,0.810,(3.9125)+(-0.0703)Asn+(-0.0098)Ala+(0.0154)Orn+(-0.0043)Lys+(0.1592)Ile+(-0.0802)Leu;0.773,0.805,0.766,0.759,0.757,0.828,0.757,0.775,(6.6999)+(0.0040)Gly+(-0.1068)His+(-0.0046)Ala+(0.0115)Pro+(0.0032)Val+(-0.0852)Met;0.773,0.804,0.739,0.706,0.772,0.822,0.700,0.750,(6.6031)+(-0.1224)His+(0.0136)Thr+(-0.0638)Cit+(-0.0046)Arg+(0.0486)Orn+(-0.0058)Lys;0.773,0.802,0.769,0.748,0.755,0.819,0.815,0.784,(7.0864)+(-0.0980)His+(-0.0039)Ala+(0.0111)Pro+(-0.0236)Val+(-0.1171)Met+(0.0529)Leu;0.773,0.812,0.767,0.751,0.762,0.843,0.763,0.780,(3.7332)+(-0.0913)Cit+(-0.0015)Pro+(-0.2089)Met+(0.0355)Orn+(0.1654)Ile+(-0.0828)Leu;0.773,0.808,0.747,0.720,0.742,0.800,0.789,0.763,(6.3248)+(-0.1154)His+(-0.0368)Cit+(0.0040)Arg+(-0.0252)Tyr+(-0.0022)Lys+(0.0553)Ile;0.773,0.815,0.746,0.767,0.751,0.776,0.656,0.737,(-3.5218)+(0.0463)Ser+(0.0011)Gln+(-0.0187)Arg+(-0.3556)Met+(-0.0051)Leu+(0.1154)Phe;0.773,0.814,0.823,0.833,0.811,0.817,0.828,0.822,(4.6333)+(-0.0014)Gly+(0.0043)Gln+(-0.0053)Ala+(-0.0032)Lys+(0.0145)Leu+(-0.1514)Trp;0.773,0.811,0.815,0.823,0.812,0.815,0.800,0.813,(6.7569)+(-0.0433)Asn+(0.0012)Gly+(-0.0036)Ala+(-0.

0025)Arg+(0.0147)Leu+(-0.1375)Trp;0.773,0.809,0.750,0.730,0.761,0.854,0.705,0.762,(-0.0224)+(0.0327)Ser+(-0.0110)Ala+(-0.1326)Cit+(0.0576)Orn+(-0.0263)Lys+(0.0683)Phe;0.773,0.813,0.735,0.722,0.700,0.837,0.770,0.757,(1.0130)+(0.0393)Ser+(-0.1310)Asn+(-0.0033)Pro+(-0.0090)Lys+(0.1480)Ile+(-0.0729)Leu;0.773,0.810,0.728,0.731,0.668,0.796,0.798,0.748,(0.3566)+(0.0400)Ser+(-0.0088)Gly+(-0.0148)Thr+(-0.0494)Tyr+(0.1606)Ile+(-0.0840)Leu;0.773,0.807,0.744,0.718,0.765,0.810,0.723,0.754,(6.6965)+(-0.1108)His+(-0.0647)Cit+(-0.0008)Arg+(0.0050)Pro+(-0.0279)Tyr+(0.0539)Orn;0.773,0.801,0.687,0.658,0.626,0.794,0.812,0.723,(1.1244)+(0.0355)Ser+(-0.0079)Gly+(-0.0047)Gln+(-0.0473)Val+(0.1815)Ile+(-0.0308)Leu;0.773,0.815,0.730,0.725,0.713,0.823,0.714,0.744,(0.7576)+(0.0412)Ser+(-0.0003)Gln+(0.0128)Pro+(-0.0415)Val+(-0.3305)Met+(0.0697)Leu;0.773,0.814,0.783,0.800,0.791,0.781,0.725,0.774,(5.8598)+(-0.0171)Arg+(0.0056)Pro+(-0.0163)Tyr+(0.0224)Orn+(0.0022)Lys+(-0.1430)Trp;0.773,0.813,0.766,0.760,0.738,0.815,0.807,0.780,(2.4706)+(-0.1085)Asn+(0.0044)Thr+(-0.0813)Cit+(0.1504)Ile+(-0.0932)Leu+(0.0680)Phe;0.773,0.808,0.756,0.736,0.764,0.813,0.751,0.766,(6.5474)+(-0.0013)Asn+(-0.1122)His+(0.0069)Pro+(-0.0117)Tyr+(-0.0846)Met+(0.0354)Orn;0.773,0.802,0.748,0.713,0.750,0.801,0.798,0.766,(6.0799)+(-0.0154)Asn+(-0.1213)His+(-0.0357)Cit+(0.0027)Arg+(-0.0015)Pro+(0.0493)Ile;0.773,0.802,0.741,0.741,0.686,0.811,0.804,0.761,(4.1092)+(0.0001)Gly+(-0.0466)Cit+(-0.0149)Arg+(-0.0362)Tyr+(-0.0499)Val+(0.1595)Ile;0.773,0.800,0.732,0.710,0.688,0.823,0.814,0.759,(3.3790)+(0.0004)Gln+(0.0068)Thr+(-0.0665)Cit+(-0.0496)Val+(-0.0180)Lys+(0.1600)Ile;0.773,0.814,0.810,0.825,0.813,0.793,0.778,0.802,(4.6494)+(-0.0016)Gly+(0.0045)Gln+(-0.0182)Arg+(0.0044)Pro+(0.0052)Leu+(-0.1569)Trp;0.773,0.811,0.828,0.847,0.814,0.821,0.814,0.824,(4.8980)+(-0.0020)Gly+(0.0044)Gln+(-0.0041)Ala+(-0.0038)Tyr+(0.0014)Val+(-0.1445)Trp;0.773,0.806,0.776,0.790,0.717,0.836,0.820

,0.791,(4.1332)+(0.0001)Gly+(-0.0088)Ala+(-0.0212)Arg+(-0.0324)Tyr+(0.1802)Ile+(-0.0882)Leu;0.773,0.810,0.732,0.724,0.746,0.791,0.681,0.736,(0.0130)+(0.0497)Ser+(-0.1516)Asn+(-0.0811)Cit+(0.0031)Pro+(-0.0173)Lys+(0.0779)Phe;0.773,0.800,0.740,0.724,0.747,0.798,0.724,0.748,(6.5296)+(-0.0487)Asn+(0.0026)Gly+(-0.1255)His+(0.0157)Thr+(0.0042)Pro+(0.0016)Lys;0.773,0.797,0.727,0.737,0.654,0.786,0.811,0.747,(3.3849)+(-0.0040)Gly+(0.0037)Thr+(-0.0493)Tyr+(-0.0407)Val+(0.1813)Ile+(-0.0355)Leu;0.773,0.813,0.821,0.836,0.811,0.819,0.803,0.817,(4.6081)+(0.0048)Gln+(-0.0049)Ala+(-0.0142)Arg+(0.0004)Lys+(0.0134)Leu+(-0.1514)Trp;0.773,0.812,0.765,0.763,0.779,0.822,0.700,0.766,(7.2717)+(-0.1179)His+(0.0299)Thr+(-0.0009)Ala+(-0.0152)Arg+(-0.1581)Met+(0.0094)Lys;0.773,0.811,0.734,0.722,0.699,0.830,0.770,0.755,(0.8144)+(0.0371)Ser+(-0.1516)Asn+(-0.0042)Pro+(0.0074)Orn+(0.1470)Ile+(-0.0779)Leu;0.773,0.808,0.746,0.714,0.775,0.820,0.720,0.757,(6.7255)+(-0.0479)Asn+(-0.1176)His+(0.0143)Thr+(-0.0643)Cit+(0.0017)Pro+(0.0451)Orn;0.773,0.811,0.827,0.836,0.833,0.830,0.789,0.822,(6.7122)+(0.0011)Gly+(-0.0019)Ala+(-0.0026)Arg+(0.0262)Tyr+(-0.1131)Met+(-0.1316)Trp;0.773,0.809,0.816,0.834,0.819,0.808,0.768,0.807,(6.6368)+(0.0005)Gly+(-0.0013)Ala+(-0.0073)Arg+(-0.1016)Met+(0.0105)Lys+(-0.1343)Trp;0.773,0.811,0.758,0.755,0.748,0.827,0.738,0.767,(3.6263)+(-0.0011)Gly+(0.0299)Thr+(0.0100)Pro+(-0.0485)Val+(-0.3589)Met+(0.0771)Leu;0.772,0.813,0.708,0.687,0.712,0.799,0.694,0.723,(-1.4748)+(0.0442)Ser+(0.0000)Gln+(0.0094)Thr+(-0.3423)Met+(-0.0134)Lys+(0.0734)Ile;0.772,0.813,0.709,0.687,0.712,0.799,0.695,0.723,(-1.4640)+(0.0443)Ser+(0.0096)Thr+(-0.3430)Met+(-0.0010)Orn+(-0.0132)Lys+(0.0737)Ile;0.772,0.805,0.738,0.708,0.768,0.825,0.694,0.749,(6.1225)+(0.0040)Gly+(-0.1179)His+(-0.0717)Cit+(-0.0006)Arg+(0.0533)Orn+(-0.0031)Lys;0.772,0.815,0.803,0.825,0.805,0.803,0.739,0.793,(4.7450)+(0.0040)Gln+(-0.0197)Arg+(-0.0124)Tyr+(0.0217)Orn+(0.0009)Lys+

(-0.1461)Trp;0.772,0.806,0.734,0.717,0.738,0.800,0.721,0.744,(5.9773)+(0.0017)Gly+(-0.1261)His+(0.0053)Pro+(-0.0251)Tyr+(0.0333)Orn+(0.0020)Lys;0.772,0.806,0.739,0.710,0.751,0.808,0.742,0.753,(5.9287)+(-0.0295)Asn+(0.0035)Gly+(-0.1315)His+(0.0296)Orn+(-0.0003)Lys+(0.0097)Leu;0.772,0.812,0.740,0.739,0.766,0.840,0.614,0.740,(1.6736)+(0.0355)Ser+(-0.0946)Cit+(0.0116)Pro+(-0.0086)Val+(-0.2734)Met+(0.0413)Orn;0.772,0.807,0.775,0.790,0.715,0.835,0.818,0.790,(4.0548)+(-0.0088)Ala+(-0.0229)Arg+(-0.0339)Tyr+(0.0027)Lys+(0.1818)Ile+(-0.0903)Leu;0.772,0.816,0.811,0.825,0.806,0.792,0.796,0.805,(4.7001)+(-0.0022)Gly+(0.0041)Gln+(-0.0146)Tyr+(-0.0033)Lys+(0.0098)Leu+(-0.1521)Trp;0.772,0.812,0.810,0.822,0.812,0.817,0.767,0.804,(6.3714)+(-0.0007)Gly+(-0.0040)Ala+(-0.0133)Arg+(-0.0016)Tyr+(0.0293)Orn+(-0.1349)Trp;0.772,0.804,0.759,0.725,0.786,0.824,0.747,0.770,(6.6874)+(0.0043)Asn+(-0.1124)His+(-0.0619)Cit+(-0.0989)Met+(0.0494)Orn+(0.0114)Leu;0.772,0.802,0.753,0.728,0.757,0.819,0.761,0.766,(6.7744)+(-0.1298)His+(0.0201)Thr+(-0.0051)Ala+(-0.0347)Cit+(-0.0056)Arg+(0.0184)Leu;0.772,0.809,0.772,0.773,0.737,0.826,0.802,0.784,(1.5119)+(0.0040)Gln+(-0.0005)Pro+(-0.2721)Met+(0.0032)Orn+(0.1683)Ile+(-0.0821)Leu;0.772,0.806,0.733,0.700,0.763,0.821,0.694,0.745,(5.9291)+(0.0042)Gly+(-0.1190)His+(-0.0719)Cit+(0.0032)Pro+(0.0513)Orn+(-0.0037)Lys;0.772,0.805,0.717,0.679,0.749,0.810,0.684,0.730,(5.3426)+(0.0038)Gly+(-0.1362)His+(0.0091)Thr+(-0.0669)Cit+(0.0420)Orn+(0.0089)Leu;0.772,0.812,0.763,0.757,0.785,0.836,0.680,0.765,(7.1136)+(0.0028)Gly+(-0.1105)His+(0.0278)Thr+(-0.0364)Cit+(0.0081)Tyr+(-0.1585)Met;0.772,0.812,0.759,0.753,0.778,0.816,0.694,0.760,(7.1333)+(-0.1216)His+(0.0303)Thr+(-0.0146)Arg+(0.0021)Val+(-0.1679)Met+(0.0085)Lys;0.772,0.811,0.801,0.828,0.800,0.776,0.751,0.789,(0.0693)+(-0.1071)Asn+(0.0057)Gln+(0.0306)Thr+(-0.0194)Val+(-0.3115)Met+(0.1280)Phe;0.772,0.810,0.757,0.770,0.712,0.817,0.771,0.767,(0.3299)+(0.0475)Ser

+(-0.1928)Asn+(-0.0078)Ala+(0.0137)Pro+(-0.0199)Val+(0.0987)Phe;0.772,0.810,0.758,0.740,0.764,0.815,0.754,0.768,(6.2446)+(-0.1134)His+(0.0075)Pro+(-0.0038)Val+(-0.1192
)Met+(0.0326)Orn+(0.0069)Lys;0.772,0.808,0.760,0.724,0.788,0.823,0.748,0.771,(6.6081)+(-0.1093)His+(-0.0608)Cit+(0.0045)Pro+(-0.1091)Met+(0.0474)Orn+(0.0092)Leu;0.772,0.807,0.781,0.770,0.764,0.800,0.831,0.791,(0.9419)+(-0.0100)Ala+(-0.0077)Arg+(0.0093)Pro+(-0.2891)Met+(0.0473)Ile+(0.0695)Phe;0.772,0.813,0.827,0.836,0.835,0.818,0.794,0.821,(6.5425)+(-0.0019)Ala+(-0.0078)Arg+(0.0246)Tyr+(-0.1340)Met+(0.0102)Lys+(-0.1399)Trp;0.772,0.811,0.753,0.733,0.702,0.854,0.840,0.782,(0.7128)+(0.0516)Ser+(-0.1073)Asn+(-0.0055)Gly+(-0.0094)Ala+(-0.0171)Lys+(0.0631)Ile;0.772,0.808,0.783,0.757,0.771,0.833,0.842,0.801,(3.5666)+(-0.0121)Ala+(-0.0863)Cit+(0.0101)Arg+(0.0104)Pro+(-0.2105)Met+(0.0668)Ile;0.772,0.813,0.700,0.703,0.705,0.739,0.656,0.701,(-4.1348)+(0.0499)Ser+(-0.0008)Gln+(0.0100)Pro+(-0.4251)Met+(-0.0040)Orn+(0.1088)Phe;0.772,0.810,0.743,0.747,0.694,0.832,0.771,0.761,(0.7418)+(0.0425)Ser+(-0.1140)Asn+(-0.0083)Ala+(-0.0143)Arg+(-0.0304)Tyr+(0.0598)Ile;0.772,0.816,0.739,0.738,0.729,0.843,0.687,0.749,(1.0329)+(0.0331)Ser+(-0.0004)Gln+(0.0210)Thr+(-0.0454)Val+(-0.3630)Met+(0.0833)Leu;0.772,0.813,0.747,0.765,0.717,0.770,0.750,0.750,(0.0289)+(0.0578)Ser+(-0.1407)Asn+(-0.0075)Gly+(-0.0637)Tyr+(-0.0120)Lys+(0.0965)Phe;0.772,0.811,0.787,0.784,0.728,0.858,0.867,0.809,(3.7482)+(-0.0759)Asn+(-0.0006)Thr+(-0.0099)Ala+(0.0138)Orn+(0.1604)Ile+(-0.0827)Leu;0.772,0.807,0.742,0.705,0.772,0.818,0.726,0.755,(6.5558)+(-0.0474)Asn+(-0.1238)His+(0.0154)Thr+(-0.0624)Cit+(0.0424)Orn+(0.0071)Leu;0.772,0.807,0.748,0.718,0.778,0.822,0.712,0.757,(6.9263)+(-0.0447)Asn+(-0.1174)His+(0.0158)Thr+(-0.0611)Cit+(-0.0050)Arg+(0.0457)Orn;0.772,0.803,0.738,0.732,0.746,0.797,0.694,0.742,(7.0622)+(-0.1234)His+(0.0209)Thr+(-0.0146)Arg+(0.0060)Pr

o+(-0.0260)Tyr+(0.0007)Val;0.772,0.805,0.769,0.762,0.769,0.827,0.745,0.775,(7.5892)+(-0.0310)Asn+(-0.1200)His+(0.0224)Thr+(-0.0029)Ala+(-0.0110)Arg+(0.0014)Val;0.772,0.804,0.765,0.763,0.758,0.820,0.748,0.772,(7.4101)+(-0.0431)Asn+(-0.1171)His+(0.0205)Thr+(-0.0022)Ala+(-0.0149)Tyr+(0.0039)Lys;0.772,0.813,0.791,0.798,0.806,0.784,0.746,0.784,(5.7515)+(-0.0008)Gly+(-0.0168)Arg+(0.0040)Pro+(0.0206)Orn+(0.0030)Leu+(-0.1501)Trp;0.772,0.809,0.818,0.833,0.822,0.813,0.774,0.810,(7.2109)+(-0.0291)Asn+(0.0009)Gly+(-0.0000)Arg+(0.0016)Val+(-0.0677)Met+(-0.1275)Trp;0.772,0.806,0.729,0.699,0.758,0.821,0.681,0.740,(5.8345)+(0.0031)Gly+(-0.1263)His+(0.0088)Thr+(-0.0690)Cit+(-0.0015)Val+(0.0478)Orn;0.772,0.810,0.809,0.821,0.811,0.816,0.766,0.803,(6.2213)+(-0.0006)Gly+(-0.0043)Ala+(-0.0152)Arg+(0.0277)Orn+(0.0031)Lys+(-0.1386)Trp;0.772,0.810,0.737,0.760,0.682,0.792,0.753,0.747,(-0.2539)+(0.0450)Ser+(-0.1601)Asn+(-0.0088)Ala+(0.0118)Pro+(-0.0571)Tyr+(0.0896)Phe;0.772,0.811,0.729,0.721,0.700,0.818,0.747,0.746,(0.4365)+(0.0434)Ser+(-0.0074)Gly+(-0.0353)Arg+(-0.0115)Lys+(0.1641)Ile+(-0.0888)Leu;0.772,0.810,0.750,0.723,0.763,0.820,0.745,0.763,(5.8719)+(0.0037)Gly+(-0.1285)His+(-0.1165)Met+(0.0292)Orn+(0.0035)Lys+(0.0151)Leu;0.772,0.803,0.735,0.729,0.743,0.798,0.686,0.739,(6.9392)+(0.0010)Gly+(-0.1231)His+(0.0201)Thr+(-0.0150)Arg+(0.0062)Pro+(-0.0241)Tyr;0.772,0.803,0.738,0.728,0.686,0.804,0.828,0.762,(1.8655)+(-0.0451)Cit+(-0.0239)Arg+(-0.0030)Pro+(-0.0571)Val+(0.1604)Ile+(0.0438)Phe;0.772,0.802,0.741,0.735,0.688,0.815,0.812,0.763,(4.2639)+(-0.0599)Cit+(-0.0002)Pro+(-0.0334)Tyr+(-0.0468)Val+(-0.0098)Lys+(0.1586)Ile;0.772,0.801,0.759,0.731,0.782,0.829,0.739,0.770,(7.0953)+(-0.0315)Asn+(-0.1045)His+(-0.0665)Cit+(-0.0036)Val+(0.0555)Orn+(0.0002)Lys;0.772,0.800,0.732,0.727,0.683,0.810,0.792,0.753,(3.3296)+(0.0087)Thr+(-0.0311)Arg+(-0.0476)Val+(-0.0071)Lys+(0.1877)Ile+(-0.0296)Leu;0.772,0.808,0.771,0.751,0.772,0.835,0.773,0.783

,(6.5788)+(-0.1167)His+(-0.0023)Ala+(-0.0002)Val+(-0.0792)Met+(0.0362)Orn+(0.0056)Lys;0.772,0.808,0.785,0.760,0.789,0.831,0.811,0.798,(1.7599)+(-0.0105)Ala+(-0.1012)Cit+(-0.2320)Met+(0.0324)Orn+(0.0527)Ile+(0.0617)Phe;0.772,0.800,0.755,0.751,0.748,0.817,0.737,0.763,(6.7639)+(0.0006)Gly+(-0.1246)His+(0.0166)Thr+(-0.0024)Ala+(-0.0132)Tyr+(0.0019)Lys;0.772,0.814,0.813,0.830,0.818,0.802,0.765,0.804,(4.8279)+(-0.0021)Gly+(0.0042)Gln+(-0.0202)Arg+(0.0205)Orn+(-0.0002)Lys+(-0.1509)Trp;0.772,0.813,0.770,0.763,0.788,0.833,0.708,0.773,(7.5862)+(-0.0121)Asn+(-0.1073)His+(0.0296)Thr+(-0.0324)Cit+(0.0026)Tyr+(-0.1413)Met;0.772,0.799,0.738,0.748,0.679,0.801,0.790,0.755,(4.0563)+(-0.0252)Arg+(-0.0354)Tyr+(-0.0403)Val+(0.0006)Lys+(0.1914)Ile+(-0.0402)Leu;0.772,0.807,0.749,0.734,0.754,0.810,0.736,0.759,(6.4866)+(-0.0308)Asn+(0.0023)Gly+(-0.1209)His+(-0.0179)Tyr+(0.0361)Orn+(0.0041)Lys;0.772,0.815,0.763,0.752,0.785,0.825,0.702,0.766,(7.2605)+(-0.1147)His+(0.0297)Thr+(-0.0346)Cit+(-0.0003)Tyr+(0.0047)Val+(-0.1577)Met;0.772,0.799,0.726,0.702,0.741,0.798,0.708,0.737,(6.1513)+(0.0025)Gly+(-0.1426)His+(0.0182)Thr+(-0.0127)Arg+(-0.0021)Lys+(0.0146)Leu;0.772,0.809,0.768,0.783,0.756,0.801,0.728,0.767,(-0.3707)+(0.0451)Ser+(-0.2051)Asn+(0.0039)Gln+(-0.0704)Cit+(-0.0171)Val+(0.1015)Phe;0.772,0.807,0.753,0.752,0.761,0.816,0.695,0.756,(7.4825)+(-0.0454)Asn+(0.0026)Gly+(-0.1114)His+(0.0216)Thr+(-0.0358)Cit+(-0.0136)Tyr;0.772,0.803,0.794,0.775,0.791,0.823,0.832,0.805,(1.8560)+(-0.0057)Asn+(-0.0095)Ala+(-0.0759)Cit+(-0.2391)Met+(0.0603)Ile+(0.0712)Phe;0.772,0.816,0.762,0.748,0.735,0.849,0.790,0.781,(0.8889)+(0.0460)Ser+(-0.0076)Gly+(-0.0433)Val+(-0.2976)Met+(0.0288)Orn+(0.0733)Leu;0.772,0.812,0.805,0.807,0.803,0.808,0.798,0.804,(5.6890)+(-0.0007)Gly+(-0.0054)Ala+(0.0213)Orn+(-0.0028)Lys+(0.0116)Leu+(-0.1447)Trp;0.772,0.809,0.757,0.739,0.766,0.822,0.735,0.766,(6.1996)+(-0.0111)Asn+(0.0030)Gly+(-0.1200)His+(-0.0903)Met+(0.0335)Orn+(0

.0062)Lys;0.772,0.803,0.738,0.737,0.680,0.808,0.812,0.759,(3.6853)+(-0.0006)Gly+(-0.0603)Cit+(-0.0001)Pro+(-0.0428)Tyr+(-0.0480)Val+(0.1540)Ile;0.772,0.809,0.817,0.823,0.818,0.809,0.804,0.814,(6.8681)+(-0.0230)Asn+(-0.0024)Ala+(0.0012)Arg+(-0.0810)Met+(0.0173)Leu+(-0.1343)Trp;0.772,0.804,0.733,0.709,0.750,0.804,0.709,0.743,(6.4582)+(-0.0499)Asn+(0.0044)Gly+(-0.1296)His+(0.0192)Thr+(-0.0403)Cit+(0.0157)Leu;0.772,0.802,0.739,0.738,0.680,0.808,0.812,0.759,(3.6231)+(-0.0007)Gly+(0.0002)Gln+(-0.0606)Cit+(-0.0432)Tyr+(-0.0479)Val+(0.1536)Ile;0.772,0.802,0.739,0.733,0.688,0.817,0.807,0.761,(4.1662)+(0.0006)Gly+(-0.0612)Cit+(-0.0330)Tyr+(-0.0466)Val+(-0.0101)Lys+(0.1584)Ile;0.772,0.818,0.783,0.793,0.750,0.853,0.779,0.793,(1.6438)+(0.0430)Ser+(-0.1251)Asn+(0.0038)Gln+(-0.0444)Val+(-0.1955)Met+(0.0787)Leu;0.772,0.814,0.769,0.761,0.740,0.822,0.811,0.783,(2.6952)+(-0.0874)Asn+(-0.0795)Cit+(-0.0062)Lys+(0.1522)Ile+(-0.0910)Leu+(0.0696)Phe;0.772,0.810,0.735,0.726,0.674,0.828,0.819,0.762,(-1.1627)+(0.0447)Ser+(-0.1698)Asn+(-0.0124)Ala+(0.0065)Pro+(0.0371)Ile+(0.0458)Phe;0.772,0.809,0.775,0.779,0.741,0.850,0.780,0.787,(2.1044)+(-0.1264)Asn+(0.0043)Gly+(0.0061)Gln+(-0.0905)Cit+(0.1547)Ile+(-0.0824)Leu;0.772,0.810,0.818,0.818,0.829,0.805,0.801,0.813,(6.6563)+(-0.0219)Asn+(-0.0004)Arg+(0.0184)Tyr+(-0.1246)Met+(0.0145)Leu+(-0.1396)Trp;0.772,0.808,0.822,0.837,0.823,0.818,0.785,0.816,(7.3441)+(-0.0269)Asn+(-0.0015)Ala+(0.0004)Arg+(0.0024)Val+(-0.0585)Met+(-0.1272)Trp;0.772,0.815,0.729,0.712,0.725,0.792,0.738,0.741,(-1.4073)+(0.0555)Ser+(-0.0060)Gly+(-0.0126)Arg+(-0.0062)Tyr+(-0.3218)Met+(0.0655)Ile;0.772,0.802,0.749,0.714,0.751,0.804,0.797,0.767,(6.2269)+(-0.0081)Asn+(-0.1189)His+(-0.0343)Cit+(-0.0013)Pro+(-0.0032)Lys+(0.0513)Ile;0.772,0.814,0.738,0.743,0.724,0.803,0.711,0.745,(0.6835)+(0.0388)Ser+(-0.1513)Asn+(0.0041)Gln+(-0.0809)Cit+(-0.0449)Tyr+(0.0462)Ile;0.772,0.814,0.762,0.756,0.780,0.824,0.695,0.764,(7.3565)+(-0.1

194)His+(0.0310)Thr+(-0.0107)Arg+(-0.0007)Tyr+(0.0035)Val+(-0.1468)Met;0.772,0.809,0.758,0.735,0.759,0.820,0.774,0.772,(6.7395)+(-0.1237)His+(-0.0036)Ala+(-0.0064)Arg+(-0.0161)Tyr+(0.0372)Orn+(0.0125)Leu;0.772,0.806,0.758,0.743,0.761,0.811,0.755,0.767,(6.8418)+(-0.0295)Asn+(-0.1159)His+(-0.0188)Tyr+(-0.0025)Val+(0.0387)Orn+(0.0047)Lys;0.772,0.804,0.748,0.720,0.755,0.784,0.785,0.761,(5.0415)+(-0.1337)His+(-0.0326)Cit+(0.0021)Pro+(-0.0032)Lys+(-0.0004)Leu+(0.0786)Phe;0.772,0.803,0.736,0.709,0.745,0.803,0.737,0.749,(5.7235)+(0.0021)Gly+(-0.1291)His+(0.0040)Pro+(-0.0028)Val+(0.0313)Orn+(0.0003)Lys;0.772,0.796,0.733,0.726,0.680,0.808,0.808,0.755,(2.9865)+(-0.0012)Gly+(0.0083)Thr+(-0.0336)Arg+(-0.0022)Pro+(-0.0586)Val+(0.1673)Ile;0.772,0.808,0.769,0.768,0.755,0.851,0.738,0.778,(3.2335)+(0.0407)Ser+(-0.1110)Asn+(-0.0097)Ala+(-0.0777)Cit+(0.0149)Pro+(-0.0064)Lys;0.772,0.802,0.787,0.794,0.771,0.773,0.813,0.788,(2.8989)+(-0.0596)Asn+(0.0102)Pro+(-0.0436)Val+(-0.2890)Met+(0.0563)Leu+(0.1044)Phe;0.772,0.807,0.724,0.714,0.677,0.829,0.771,0.748,(0.4475)+(0.0288)Ser+(-0.0146)Ala+(-0.0980)Cit+(0.0101)Pro+(-0.0415)Tyr+(0.0612)Ile;0.772,0.806,0.746,0.748,0.756,0.799,0.681,0.746,(0.2209)+(0.0485)Ser+(-0.1537)Asn+(-0.0786)Cit+(-0.0137)Lys+(-0.0084)Leu+(0.0884)Phe;0.772,0.805,0.723,0.694,0.744,0.803,0.699,0.735,(5.7997)+(0.0024)Gly+(-0.1440)His+(0.0145)Thr+(-0.0161)Arg+(0.0256)Orn+(0.0093)Leu;0.772,0.814,0.813,0.830,0.814,0.795,0.776,0.804,(4.7585)+(-0.0018)Gly+(0.0045)Gln+(-0.0190)Arg+(0.0050)Pro+(0.0017)Lys+(-0.1539)Trp;0.772,0.814,0.720,0.720,0.713,0.791,0.682,0.727,(1.4147)+(0.0425)Ser+(-0.1277)Asn+(-0.0702)Cit+(-0.0042)Arg+(-0.0432)Tyr+(0.0481)Ile;0.772,0.811,0.741,0.705,0.762,0.802,0.751,0.755,(4.6432)+(-0.1329)His+(-0.0594)Cit+(-0.0041)Arg+(0.0416)Orn+(-0.0065)Leu+(0.0718)Phe;0.772,0.807,0.763,0.737,0.787,0.827,0.738,0.772,(7.1816)+(-0.0093)Asn+(-0.1029)His+(-0.0666)Cit+(-0.0113)Tyr+(-0.0517)Met+(0.0566)Orn;0.772

,0.807,0.720,0.746,0.659,0.751,0.758,0.728,(0.1540)+(-0.0035)Pro+(-0.0796)Tyr+(0.0031)Orn+(0.1658)Ile+(-0.1011)Leu+(0.0833)Phe;0.772,0.813,0.763,0.762,0.780,0.833,0.683,0.764,(7.2774)+(0.0018)Gly+(-0.1160)His+(0.0297)Thr+(-0.0114)Arg+(0.0054)Tyr+(-0.1462)Met;0.772,0.811,0.738,0.722,0.691,0.849,0.799,0.765,(0.3945)+(0.0438)Ser+(-0.1164)Asn+(-0.0095)Ala+(0.0124)Orn+(-0.0176)Lys+(0.0610)Ile;0.772,0.809,0.794,0.785,0.779,0.852,0.810,0.806,(1.2075)+(0.0044)Gly+(0.0055)Gln+(-0.0099)Ala+(-0.0960)Cit+(-0.2307)Met+(0.0778)Ile;0.772,0.804,0.731,0.717,0.738,0.793,0.711,0.740,(6.8339)+(-0.1368)His+(0.0230)Thr+(-0.0126)Arg+(-0.0267)Tyr+(-0.0003)Lys+(0.0163)Leu;0.772,0.796,0.733,0.715,0.739,0.796,0.722,0.743,(6.0768)+(0.0017)Gly+(-0.1336)His+(0.0127)Thr+(0.0038)Pro+(0.0000)Val+(-0.0008)Lys;0

.772,0.815,0.774,0.767,0.788,0.842,0.715,0.778,(7.5142)+(-0.1074)His+(0.0289)Thr+(-0.0014)Ala+(-0.0336)Cit+(0.0057)Tyr+(-0.1442)Met;0.772,0.806,0.741,0.725,0.742,0.799,0.739,0.751,(6.2311)+(-0.1217)His+(0.0057)Pro+(-0.0257)Tyr+(-0.0024)Val+(0.0353)Orn+(0.0028)Lys;0.772,0.805,0.756,0.727,0.778,0.825,0.739,0.767,(6.9919)+(-0.0351)Asn+(-0.1029)His+(-0.0654)Cit+(0.0042)Pro+(-0.0052)Val+(0.0539)Orn;0.772,0.804,0.764,0.775,0.693,0.826,0.836,0.783,(3.1694)+(-0.0031)Thr+(-0.0107)Ala+(0.0057)Pro+(-0.0389)Tyr+(0.1657)Ile+(-0.0829)Leu;0.772,0.800,0.698,0.686,0.630,0.792,0.807,0.729,(-2.0456)+(0.0310)Ser+(-0.0222)Thr+(-0.0372)Val+(0.1861)Ile+(-0.0565)Leu+(0.0414)Phe;0.772,0.812,0.826,0.847,0.817,0.827,0.787,0.820,(4.8180)+(0.0049)Gln+(-0.0039)Ala+(-0.0159)Arg+(0.0009)Val+(0.0035)Lys+(-0.1454)Trp;0.772,0.811,0.799,0.807,0.811,0.793,0.755,0.791,(6.0999)+(-0.0091)Arg+(-0.1293)Met+(0.0232)Orn+(0.0051)Lys+(0.0090)Leu+(-0.1387)Trp;0.772,0.808,0.734,0.709,0.742,0.803,0.731,0.746,(5.9829)+(0.0022)Gly+(-0.1332)His+(-0.0215)Tyr+(0.0328)Orn+(-0.0003)Lys+(0.0118)Leu;0.772,0.807,0.822,0.838,0.819,0.823,0.785,0.8

16,(7.2437)+(-0.0426)Asn+(0.0008)Gly+(-0.0024)Ala+(-0.0020)Arg+(0.0015)Val+(-0.1288)Trp;0.772,0.806,0.774,0.786,0.706,0.834,0.844,0.793,(3.6772)+(-0.0014)Gly+(-0.0094)Ala+(-0.0364)Tyr+(-0.0046)Lys+(0.1707)Ile+(-0.0814)Leu;0.772,0.804,0.754,0.732,0.760,0.809,0.762,0.766,(6.5208)+(-0.0381)Asn+(-0.1156)His+(0.0048)Pro+(-0.0057)Val+(0.0343)Orn+(0.0035)Lys;0.772,0.803,0.716,0.711,0.643,0.791,0.826,0.743,(1.4165)+(0.0325)Ser+(-0.0112)Gly+(-0.0001)Pro+(-0.0504)Tyr+(-0.0499)Val+(0.1520)Ile;0.772,0.806,0.744,0.722,0.748,0.801,0.750,0.755,(6.5209)+(-0.0196)Asn+(-0.1226)His+(0.0042)Pro+(-0.0264)Tyr+(0.0341)Orn+(0.0082)Leu;0.772,0.810,0.803,0.811,0.805,0.812,0.773,0.800,(5.9515)+(-0.0050)Ala+(-0.0138)Arg+(0.0248)Orn+(0.0008)Lys+(0.0099)Leu+(-0.1437)Trp;0.772,0.808,0.748,0.724,0.749,0.781,0.784,0.759,(4.9143)+(-0.1385)His+(-0.0085)Arg+(0.0023)Pro+(-0.0001)Lys+(-0.0029)Leu+(0.0769)Phe;0.772,0.807,0.746,0.729,0.750,0.800,0.746,0.756,(6.5769)+(-0.0265)Asn+(-0.1186)His+(0.0054)Pro+(-0.0267)Tyr+(0.0348)Orn+(0.0037)Lys;0.772,0.806,0.771,0.769,0.771,0.830,0.733,0.776,(7.9140)+(-0.0397)Asn+(-0.1071)His+(0.0232)Thr+(-0.0026)Ala+(-0.0344)Cit+(-0.0115)Tyr;0.772,0.806,0.753,0.722,0.766,0.814,0.763,0.766,(6.1483)+(0.0110)Asn+(-0.1217)His+(0.0052)Pro+(-0.1266)Met+(0.0301)Orn+(0.0121)Leu;0.772,0.803,0.785,0.762,0.775,0.833,0.834,0.801,(3.8732)+(-0.0013)Asn+(-0.0116)Ala+(-0.0766)Cit+(0.0103)Pro+(-0.1970)Met+(0.0648)Ile;0.772,0.803,0.766,0.763,0.754,0.828,0.755,0.775,(6.8717)+(-0.0031)Asn+(0.0038)Gly+(-0.1021)His+(-0.0043)Ala+(0.0120)Pro+(-0.0789)Met;0.772,0.801,0.724,0.696,0.743,0.803,0.704,0.737,(6.1120)+(0.0035)Gly+(-0.1367)His+(0.0172)Thr+(-0.0397)Cit+(-0.0063)Lys+(0.0183)Leu;0.772,0.800,0.729,0.708,0.686,0.823,0.805,0.755,(3.3622)+(0.0011)Gly+(0.0066)Thr+(-0.0675)Cit+(-0.0494)Val+(-0.0178)Lys+(0.1603)Ile;0.772,0.807,0.812,0.829,0.819,0.800,0.762,0.802,(6.5754)+(0.0005)Gly+(-0.0075)Arg+(0.0000)Val+(-0.1111)Met+(0.0104)Lys+(-

0.1359)Trp;0.772,0.805,0.779,0.767,0.760,0.801,0.838,0.791,(0.8664)+(-0.0121)Asn+(-0.0101)Ala+(0.0092)Pro+(-0.2881)Met+(0.0467)Ile+(0.0688)Phe;0.772,0.797,0.724,0.709,0.678,0.808,0.797,0.748,(2.8209)+(-0.0021)Gly+(0.0056)Thr+(-0.0378)Arg+(-0.0606)Val+(0.0253)Orn+(0.1637)Ile;0.772,0.806,0.764,0.733,0.789,0.831,0.743,0.774,(6.9092)+(-0.1051)His+(-0.0685)Cit+(0.0032)Arg+(-0.0008)Val+(-0.0790)Met+(0.0551)Orn;0.772,0.816,0.734,0.724,0.718,0.830,0.725,0.749,(0.4577)+(0.0417)Ser+(0.0122)Pro+(0.0129)Tyr+(-0.0433)Val+(-0.3527)Met+(0.0720)Leu;0.772,0.801,0.757,0.745,0.753,0.824,0.749,0.768,(6.8470)+(-0.1233)His+(0.0171)Thr+(-0.0053)Ala+(-0.0150)Arg+(0.0082)Pro+(0.0034)Lys;0.772,0.803,0.754,0.749,0.754,0.807,0.731,0.760,(7.2646)+(-0.0428)Asn+(-0.1209)His+(0.0204)Thr+(-0.0199)Tyr+(0.0007)Val+(0.0032)Lys;0.772,0.818,0.712,0.731,0.719,0.746,0.624,0.705,(-3.7025)+(0.0412)Ser+(0.0151)Thr+(-0.0231)Tyr+(-0.4058)Met+(-0.0017)Orn+(0.1181)Phe;0.772,0.808,0.769,0.765,0.791,0.858,0.670,0.771,(2.0352)+(0.0325)Ser+(-0.0059)Ala+(-0.1056)Cit+(-0.0048)Arg+(-0.1920)Met+(0.0500)Orn;0.772,0.804,0.764,0.745,0.768,0.824,0.766,0.775,(6.7078)+(-0.1203)His+(-0.0033)Ala+(-0.0114)Arg+(-0.0015)Val+(0.0380)Orn+(0.0044)Lys;0.772,0.809,0.772,0.779,0.731,0.826,0.799,0.784,(1.7658)+(0.0042)Gln+(-0.0113)Tyr+(-0.2493)Met+(-0.0014)Lys+(0.1677)Ile+(-0.0803)Leu;0.772,0.813,0.768,0.786,0.777,0.750,0.715,0.757,(1.5938)+(-0.0804)Asn+(0.0308)Thr+(0.0100)Pro+(-0.0216)Val+(-0.3256)Met+(0.1285)Phe;0.772,0.803,0.734,0.714,0.748,0.801,0.709,0.743,(6.5474)+(-0.0397)Asn+(0.0032)Gly+(-0.1360)His+(0.0205)Thr+(-0.0114)Arg+(0.0139)Leu;0.772,0.797,0.761,0.736,0.747,0.820,0.811,0.778,(6.9667)+(-0.1083)His+(-0.0060)Ala+(-0.0306)Cit+(0.0099)Pro+(-0.0182)Val+(0.0422)Leu;0.772,0.815,0.764,0.755,0.787,0.825,0.695,0.765,(7.4352)+(-0.1143)His+(0.0310)Thr+(-0.0307)Cit+(-0.0058)Arg+(0.0044)Val+(-0.1541)Met;0.772,0.806,0.761,0.732,0.763,0.824,0.786,0.776,(6.5044)+(-0.1268)H

is+(-0.0043)Ala+(-0.0075)Arg+(0.0341)Orn+(0.0007)Lys+(0.0112)Leu;0.772,0.803,0.729,0.754,0.667,0.748,0.779,0.737,(0.8649)+(-0.0030)Gly+(-0.0018)Thr+(-0.0810)Tyr+(0.1623)Ile+(-0.1003)Leu+(0.0836)Phe;0.772,0.813,0.798,0.818,0.802,0.796,0.742,0.789,(4.6231)+(0.0040)Gln+(-0.0191)Arg+(-0.0135)Tyr+(0.0199)Orn+(0.0055)Leu+(-0.1500)Trp;0.771,0.810,0.763,0.757,0.749,0.838,0.752,0.774,(3.5859)+(0.0044)Gly+(-0.0739)Cit+(-0.0068)Tyr+(-0.2050)Met+(0.1726)Ile+(-0.0796)Leu;0.771,0.807,0.750,0.730,0.768,0.810,0.723,0.758,(6.3862)+(0.0061)Gly+(-0.1128)His+(-0.0364)Cit+(0.0070)Pro+(-0.1219)Met+(0.0186)Leu;0.771,0.801,0.760,0.730,0.782,0.828,0.740,0.770,(7.0807)+(-0.0318)Asn+(-0.1045)His+(-0.0673)Cit+(0.0009)Arg+(-0.0035)Val+(0.0556)Orn;0.771,0.800,0.737,0.724,0.746,0.798,0.706,0.744,(6.8070)+(-0.1212)His+(0.0179)Thr+(-0.0325)Cit+(0.0055)Pro+(-0.0268)Tyr+(0.0019)Val;0.771,0.811,0.710,0.687,0.709,0.794,0.710,0.725,(-1.6193)+(0.0469)Ser+(0.0002)Gln+(0.0033)Pro+(-0.3264)Met+(-0.0120)Lys+(0.0692)Ile;0.771,0.809,0.773,0.755,0.775,0.832,0.773,0.784,(6.9049)+(-0.0065)Asn+(-0.1120)His+(-0.0022)Ala+(-0.0047)Tyr+(-0.0509)Met+(0.0396)Orn;0.771,0.804,0.704,0.692,0.688,0.818,0.686,0.721,(-2.1200)+(0.0330)Ser+(-0.0659)Cit+(-0.0364)Arg+(0.1740)Ile+(-0.1062)Leu+(0.0611)Phe;0.771,0.803,0.755,0.737,0.754,0.788,0.784,0.766,(5.1538)+(-0.1302)His+(-0.0257)Cit+(-0.0050)Arg+(-0.0058)Val+(0.0005)Lys+(0.0891)Phe;0.771,0.813,0.804,0.814,0.813,0.800,0.761,0.797,(6.7075)+(-0.0518)Asn+(-0.0087)Arg+(-0.0073)Tyr+(0.0260)Orn+(0.0056)Leu+(-0.1356)Trp;0.771,0.805,0.768,0.747,0.772,0.828,0.772,0.780,(6.9087)+(-0.0192)Asn+(-0.1180)His+(-0.0034)Ala+(-0.0094)Arg+(0.0372)Orn+(0.0046)Lys;0.771,0.810,0.798,0.813,0.813,0.797,0.729,0.788,(6.5516)+(-0.0023)Gly+(0.0167)Thr+(-0.0194)Arg+(-0.0021)Val+(0.0015)Lys+(-0.1511)Trp;0.771,0.807,0.771,0.768,0.789,0.858,0.673,0.772,(2.1667)+(0.0310)Ser+(-0.0055)Ala+(-0.1068)Cit+(-0.0028)Val+(-0.1916)Met+(0.0515)Orn;0.771,0.

804,0.758,0.757,0.765,0.815,0.708,0.761,(7.8995)+(-0.0367)Asn+(-0.1116)His+(0.0244)Thr+(-0.0268)Cit+(-0.0072)Arg+(-0.0169)Tyr;0.771,0.810,0.742,0.784,0.717,0.767,0.667,0.733,(-1.0805)+(0.0458)Ser+(-0.1626)Asn+(0.0028)Gln+(-0.0204)Arg+(-0.0629)Tyr+(0.0923)Phe;0.771,0.807,0.774,0.786,0.703,0.842,0.841,0.793,(2.7716)+(0.0019)Gln+(-0.0096)Ala+(-0.0361)Tyr+(-0.0071)Lys+(0.1700)Ile+(-0.0806)Leu;0.771,0.801,0.755,0.747,0.749,0.814,0.745,0.764,(6.7995)+(-0.1280)His+(0.0177)Thr+(-0.0029)Ala+(-0.0164)Tyr+(0.0038)Val+(0.0008)Lys;0.771,0.798,0.767,0.761,0.761,0.834,0.749,0.776,(7.1749)+(-0.0250)Asn+(0.0050)Gly+(-0.0975)His+(-0.0057)Ala+(-0.0410)Cit+(0.0116)Pro;0.771,0.817,0.711,0.720,0.680,0.778,0.706,0.721,(-0.9579)+(0.0496)Ser+(-0.1427)Asn+(-0.0616)Tyr+(-0.0168)Lys+(0.0385)Ile+(0.0774)Phe;0.771,0.811,0.795,0.814,0.807,0.798,0.721,0.785,(6.8275)+(-0.0027)Gly+(0.0188)Thr+(-0.0176)Arg+(-0.0118)Tyr+(-0.0011)Val+(-0.1470)Trp;0.771,0.801,0.786,0.760,0.790,0.848,0.802,0.800,(3.8252)+(-0.0196)Asn+(-0.0103)Ala+(-0.1058)Cit+(-0.1610)Met+(0.0404)Orn+(0.0582)Ile;0.771,0.796,0.729,0.721,0.677,0.805,0.805,0.752,(3.0209)+(-0.0012)Gly+(-0.0002)Gln+(0.0081)Thr+(-0.0340)Arg+(-0.0587)Val+(0.1652)Ile;0.771,0.812,0.770,0.767,0.781,0.834,0.707,0.772,(7.5503)+(-0.1139)His+(0.0305)Thr+(-0.0009)Ala+(-0.0110)Arg+(0.0038)Tyr+(-0.1377)Met;0.771,0.815,0.744,0.762,0.729,0.780,0.701,0.743,(-3.2136)+(0.0440)Ser+(-0.0001)Gln+(-0.0034)Ala+(-0.0133)Tyr+(-0.3327)Met+(0.1125)Phe;0.771,0.799,0.755,0.736,0.747,0.812,0.778,0.768,(6.8879)+(-0.0394)Asn+(0.0038)Gly+(-0.1139)His+(-0.0012)Tyr+(-0.0221)Val+(0.0483)Leu;0.771,0.814,0.738,0.757,0.741,0.775,0.654,0.732,(-2.8947)+(0.0477)Ser+(-0.0146)Arg+(-0.0168)Tyr+(-0.3175)Met+(-0.0063)Lys+(0.1190)Phe;0.771,0.806,0.762,0.737,0.785,0.827,0.735,0.771,(7.0778)+(-0.1039)His+(-0.0664)Cit+(-0.0097)Tyr+(-0.0006)Val+(-0.0605)Met+(0.0566)Orn;0.771,0.805,0.740,0.716,0.750,0.806,0.734,0.751,(5.9734)+(-0.0353)Asn+(0.0

032)Gly+(-0.1254)His+(0.0037)Pro+(0.0300)Orn+(0.0018)Lys;0.771,0.800,0.776,0.753,0.767,0.823,0.818,0.790,(7.0935)+(-0.1070)His+(-0.0015)Ala+(0.0054)Arg+(-0.0220)Val+(-0.1019)Met+(0.0545)Leu;0.771,0.798,0.762,0.753,0.749,0.827,0.770,0.775,(6.7630)+(-0.0224)Asn+(0.0037)Gly+(-0.1109)His+(-0.0052)Ala+(0.0099)Pro+(0.0015)Val;0.771,0.813,0.809,0.824,0.815,0.795,0.766,0.800,(4.6914)+(-0.0020)Gly+(0.0041)Gln+(-0.0203)Arg+(0.0187)Orn+(0.0039)Leu+(-0.1548)Trp;0.771,0.806,0.753,0.729,0.769,0.869,0.699,0.766,(2.0084)+(0.0293)Ser+(-0.0104)Ala+(-0.1307)Cit+(0.0604)Orn+(-0.0230)Lys+(0.0117)Leu;0.771,0.805,0.729,0.698,0.749,0.801,0.718,0.741,(6.0671)+(-0.1420)His+(0.0153)Thr+(-0.0155)Arg+(0.0010)Pro+(0.0257)Orn+(0.0076)Leu;0.771,0.805,0.723,0.690,0.754,0.815,0.680,0.735,(5.5974)+(0.0035)Gly+(-0.1290)His+(0.0080)Thr+(-0.0685)Cit+(0.0021)Pro+(0.0453)Orn;0.771,0.803,0.726,0.751,0.664,0.747,0.776,0.734,(0.8348)+(-0.0037)Gly+(-0.0836)Tyr+(0.0059)Orn+(0.1597)Ile+(-0.0998)Leu+(0.0822)Phe;0.771,0.796,0.743,0.751,0.678,0.806,0.815,0.762,(3.7218)+(-0.0022)Gly+(0.0015)Gln+(-0.0253)Arg+(-0.0368)Tyr+(-0.0528)Val+(0.1613)Ile;0.771,0.800,0.697,0.704,0.624,0.794,0.761,0.721,(0.8122)+(0.0158)Ser+(-0.0482)Tyr+(-0.0396)Val+(0.0097)Orn+(0.1780)Ile+(-0.0372)Leu;0.771,0.798,0.672,0.637,0.637,0.781,0.761,0.704,(0.3408)+(0.0296)Ser+(-0.0061)Gln+(-0.0623)Cit+(-0.0550)Val+(0.1521)Ile+(0.0409)Phe;0.771,0.812,0.763,0.758,0.780,0.
818,0.697,0.763,(7.2949)+(-0.0082)Asn+(-0.1180)His+(0.0302)Thr+(-0.0148)Arg+(-0.1589)Met+(0.0093)Lys;0.771,0.805,0.743,0.720,0.757,0.801,0.737,0.754,(6.9130)+(-0.0344)Asn+(-0.1348)His+(0.0218)Thr+(-0.0103)Arg+(-0.0008)Lys+(0.0128)Leu;0.771,0.801,0.766,0.760,0.766,0.825,0.743,0.773,(7.5189)+(-0.0363)Asn+(-0.1204)His+(0.0216)Thr+(-0.0028)Ala+(-0.0131)Arg+(0.0048)Lys;0.771,0.811,0.822,0.831,0.834,0.809,0.783,0.814,(6.4946)+(-0.0082)Arg+(0.0227)Tyr+(-0.0009)Val+(-0.1440)Met+(0.0106)

Lys+(-0.1406)Trp;0.771,0.806,0.774,0.802,0.751,0.808,0.723,0.771,(-0.3168)+(0.0459)Ser+(-0.1906)Asn+(0.0030)Gln+(-0.0204)Arg+(-0.0198)Val+(0.1001)Phe;0.771,0.806,0.790,0.795,0.738,0.859,0.838,0.807,(4.3694)+(-0.0588)Asn+(0.0075)Thr+(-0.0096)Ala+(-0.0208)Arg+(0.1698)Ile+(-0.0859)Leu;0.771,0.815,0.726,0.709,0.758,0.793,0.654,0.729,(-0.2234)+(0.0452)Ser+(-0.1804)Asn+(-0.0978)Cit+(-0.0094)Arg+(0.0336)Orn+(0.0549)Phe;0.771,0.811,0.764,0.753,0.785,0.850,0.685,0.768,(1.4305)+(0.0344)Ser+(-0.0068)Ala+(-0.1097)Cit+(-0.2168)Met+(0.0456)Orn+(0.0108)Leu;0.771,0.810,0.807,0.815,0.815,0.797,0.778,0.801,(6.6570)+(-0.0259)Asn+(0.0013)Gly+(0.0003)Arg+(-0.0968)Met+(0.0156)Leu+(-0.1353)Trp;0.771,0.809,0.809,0.811,0.823,0.801,0.778,0.803,(6.0598)+(0.0014)Gly+(-0.0026)Arg+(0.0209)Tyr+(-0.1495)Met+(0.0155)Leu+(-0.1417)Trp;0.771,0.808,0.817,0.833,0.820,0.807,0.774,0.808,(6.6814)+(-0.0014)Ala+(-0.0069)Arg+(0.0007)Val+(-0.1008)Met+(0.0101)Lys+(-0.1351)Trp;0.771,0.806,0.773,0.755,0.778,0.831,0.767,0.783,(6.9998)+(-0.0021)Asn+(-0.1117)His+(-0.0023)Ala+(-0.0060)Arg+(-0.0535)Met+(0.0404)Orn;0.771,0.811,0.708,0.684,0.709,0.794,0.708,0.724,(-1.5706)+(0.0469)Ser+(0.0032)Pro+(-0.3249)Met+(0.0022)Orn+(-0.0123)Lys+(0.0688)Ile;0.771,0.800,0.722,0.702,0.690,0.818,0.776,0.746,(2.6772)+(0.0011)Thr+(-0.0686)Cit+(-0.0254)Arg+(-0.0559)Val+(0.0403)Orn+(0.1545)Ile;0.771,0.813,0.821,0.836,0.811,0.820,0.804,0.818,(4.6138)+(0.0049)Gln+(-0.0049)Ala+(-0.0140)Arg+(0.0001)Tyr+(0.0136)Leu+(-0.1512)Trp;0.771,0.813,0.708,0.687,0.710,0.799,0.692,0.722,(-1.4002)+(0.0439)Ser+(0.0097)Thr+(-0.0027)Tyr+(-0.3382)Met+(-0.0133)Lys+(0.0734)Ile;0.771,0.803,0.736,0.703,0.761,0.818,0.709,0.748,(6.1438)+(-0.1236)His+(0.0096)Thr+(-0.0639)Cit+(0.0024)Pro+(-0.0033)Val+(0.0468)Orn;0.771,0.802,0.731,0.716,0.741,0.792,0.709,0.739,(6.8736)+(-0.1322)His+(0.0227)Thr+(-0.0271)Cit+(-0.0081)Arg+(-0.0270)Tyr+(0.0169)Leu;0.771,0.797,0.733,0.742,0.659,0.792,0.819,0.753,(3.3985)+(-

0.0032)Gly+(-0.0018)Pro+(-0.0446)Tyr+(-0.0398)Val+(0.1844)Ile+(-0.0375)Leu;0.771,0.812,0.739,0.728,0.701,0.840,0.775,0.761,(0.6019)+(0.0378)Ser+(-0.1431)Asn+(0.0019)Gln+(-0.0094)Lys+(0.1409)Ile+(-0.0720)Leu;0.771,0.812,0.767,0.765,0.782,0.829,0.700,0.769,(7.5705)+(-0.0059)Asn+(-0.1139)His+(0.0308)Thr+(-0.0108)Arg+(0.0019)Tyr+(-0.1371)Met;0.771,0.806,0.744,0.727,0.749,0.809,0.731,0.754,(6.1966)+(0.0015)Gly+(-0.1260)His+(-0.0188)Tyr+(-0.0005)Val+(0.0362)Orn+(0.0023)Lys;0.771,0.813,0.737,0.715,0.741,0.829,0.723,0.752,(0.3264)+(0.0424)Ser+(-0.1395)Asn+(0.0043)Gln+(-0.0864)Cit+(-0.0196)Lys+(0.0514)Ile;0.771,0.807,0.761,0.724,0.788,0.826,0.756,0.774,(6.5621)+(-0.1133)His+(-0.0671)Cit+(0.0066)Arg+(-0.1047)Met+(0.0493)Orn+(0.0123)Leu;0.771,0.799,0.754,0.736,0.747,0.812,0.778,0.768,(6.8678)+(-0.0401)Asn+(0.0038)Gly+(-0.1141)His+(0.0001)Arg+(-0.0223)Val+(0.0484)Leu;0.771,0.809,0.759,0.741,0.769,0.826,0.735,0.768,(6.4879)+(-0.0089)Asn+(0.0026)Gly+(-0.1159)His+(-0.0032)Tyr+(-0.0673)Met+(0.0372)Orn;0.771,0.806,0.763,0.732,0.788,0.829,0.742,0.773,(6.8340)+(-0.1071)His+(-0.0670)Cit+(0.0027)Arg+(-0.0847)Met+(0.0535)Orn+(0.0016)Lys;0.771,0.801,0.755,0.748,0.757,0.823,0.724,0.763,(6.8842)+(0.0018)Gly+(-0.1284)His+(0.0189)Thr+(-0.0032)Ala+(-0.0133)Arg+(0.0030)Val;0.771,0.801,0.772,0.762,0.773,0.833,0.749,0.779,(7.6620)+(-0.0423)Asn+(-0.1109)His+(0.0211)Thr+(-0.0033)Ala+(-0.0350)Cit+(0.0023)Lys;0.771,0.799,0.733,0.706,0.747,0.797,0.729,0.745,(6.4232)+(-0.1404)His+(0.0190)Thr+(-0.0122)Arg+(0.0017)Pro+(-0.0023)Lys+(0.0125)Leu;0.771,0.812,0.759,0.762,0.730,0.816,0.772,0.770,(3.4458)+(-0.0272)Asn+(0.0146)Thr+(-0.0185)Tyr+(-0.2313)Met+(0.1605)Ile+(-0.0765)Leu;0.771,0.811,0.757,0.760,0.767,0.820,0.682,0.757,(3.2040)+(0.0429)Ser+(-0.1337)Asn+(-0.0047)Gly+(-0.0978)Cit+(-0.0443)Tyr+(0.0499)Orn;0.771,0.796,0.723,0.733,0.651,0.788,0.797,0.742,(2.7316)+(0.0003)Thr+(-0.0024)Pro+(-0.0433)Tyr+(-0.0395)Val+(0.1851)Ile+(-0.0383)Leu;0.7

71,0.812,0.789,0.798,0.804,0.783,0.739,0.781,(5.6045)+(-0.0174)Arg+(0.0040)Pro+(0.0200)Orn+(0.0004)Lys+(0.0030)Leu+(-0.1506)Trp;0.771,0.807,0.765,0.750,0.767,0.824,0.759,0.775,(6.9874)+(-0.1158)His+(-0.0027)Ala+(-0.0085)Arg+(-0.0129)Tyr+(0.0001)Val+(0.0414)Orn;0.771,0.809,0.755,0.756,0.725,0.811,0.771,0.766,(3.0041)+(-0.0005)Gly+(0.0132)Thr+(-0.0167)Tyr+(-0.2588)Met+(0.1644)Ile+(-0.0779)Leu;0.771,0.808,0.775,0.780,0.746,0.834,0.778,0.784,(1.8050)+(0.0057)Gln+(-0.0244)Arg+(-0.2436)Met+(0.0111)Orn+(0.1745)Ile+(-0.0878)Leu;0.771,0.804,0.800,0.819,0.793,0.852,0.730,0.798,(1.7881)+(0.0371)Ser+(-0.0995)Asn+(0.0055)Gln+(-0.0030)Ala+(-0.0734)Cit+(-0.1402)Met;0.771,0.812,0.833,0.854,0.822,0.826,0.804,0.826,(5.0273)+(-0.0017)Gly+(0.0054)Gln+(-0.0038)Ala+(-0.0135)Arg+(0.0015)Val+(-0.1433)Trp;0.771,0.808,0.779,0.792,0.740,0.818,0.802,0.788,(0.5208)+(0.0516)Ser+(-0.1821)Asn+(-0.0049)Gly+(-0.0043)Ala+(-0.0171)Val+(0.0986)Phe;0.771,0.803,0.771,0.784,0.711,0.833,0.816,0.786,(4.1915)+(-0.0099)Ala+(-0.0216)Arg+(0.0060)Pro+(-0.0352)Tyr+(0.1722)Ile+(-0.0862)Leu;0.771,0.800,0.761,0.747,0.755,0.833,0.757,0.773,(6.9195)+(-0.1136)His+(0.0155)Thr+(-0.0061)Ala+(-0.0386)Cit+(0.0091)Pro+(0.0001)Lys;0.771,0.816,0.709,0.719,0.711,0.739,0.656,0.707,(-4.0960)+(0.0477)Ser+(0.0108)Pro+(-0.4166)Met+(-0.0024)Orn+(-0.0088)Leu+(0.1152)Phe;0.771,0.811,0.775,0.778,0.738,0.831,0.805,0.788,(1.5871)+(0.0044)Gln+(-0.0004)Pro+(-0.2675)Met+(-0.0019)Lys+(0.1684)Ile+(-0.0809)Leu;0.771,0.795,0.729,0.717,0.683,0.815,0.795,0.753,(2.9506)+(0.0001)Gln+(0.0063)Thr+(-0.0424)Cit+(-0.0256)Arg+(-0.0554)Val+(0.1610)Ile;0.771,0.809,0.770,0.751,0.771,0.833,0.772,0.782,(6.6176)+(-0.1167)His+(-0.0022)Ala+(-0.0052)Tyr+(-0.0726)Met+(0.0368)Orn+(0.0057)Lys;0.771,0.804,0.754,0.736,0.765,0.819,0.730,0.762,(6.6432)+(-0.0253)Asn+(0.0029)Gly+(-0.1172)His+(-0.0089)Arg+(-0.0023)Val+(0.0384)Orn;0.771,0.804,0.802,0.797,0.780,0.818,0.850,0.811,(-0.7430)+(-0.0369)Asn+(0.0051

)Gln+(-0.0079)Ala+(-0.2875)Met+(0.0505)Ile+(0.0691)Phe;0.771,0.801,0.755,0.722,0.781,0.825,0.742,0.767,(6.8851)+(-0.0262)Asn+(-0.1097)His+(-0.0687)Cit+(0.0025)Arg+(0.0536)Orn+(-0.0021)Lys;0.771,0.806,0.801,0.800,0.781,0.813,0.835,0.807,(-1.0025)+(0.0053)Gln+(-0.0079)Ala+(-0.0146)Arg+(-0.3068)Met+(0.0534)Ile+(0.0713)Phe;0.771,0.802,0.742,0.728,0.757,0.811,0.700,0.749,(6.8692)+(-0.0496)Asn+(0.0037)Gly+(-0.1163)His+(0.0175)Thr+(-0.0379)Cit+(0.0046)Pro;0.771,0.801,0.762,0.750,0.759,0.834,0.746,0.772,(7.1498)+(-0.1135)His+(0.0178)Thr+(-0.0059)Ala+(-0.0327)Cit+(-0.0082)Arg+(0.0090)Pro;0.771,0.805,0.793,0.780,0.779,0.817,0.841,0.804,(1.3742)+(-0.0077)Ala+(-0.0017)Arg+(-0.2604)Met+(-0.0107)Lys+(0.0595)Ile+(0.0711)Phe;0.771,0.796,0.772,0.753,0.758,0.820,0.818,0.787,(7.3018)+(-0.0350)Asn+(-0.1110)His+(-0.0027)Ala+(-0.0219)Val+(0.0046)Lys+(0.0470)Leu;0.771,0.798,0.773,0.753,0.758,0.822,0.822,0.789,(7.3544)+(-0.0294)Asn+(-0.1099)His+(-0.0026)Ala+(0.0021)Arg+(-0.0214)Val+(0.0485)Leu;0.771,0.815,0.738,0.773,0.717,0.779,0.657,0.732,(-0.3211)+(0.0490)Ser+(-0.1422)Asn+(-0.0144)Arg+(-0.0578)Tyr+(-0.0083)Lys+(0.0972)Phe;0.771,0.810,0.737,0.697,0.757,0.800,0.754,0.752,(4.6105)+(-0.1359)His+(-0.0586)Cit+(-0.0032)Arg+(-0.0003)Pro+(0.0399)Orn+(0.0644)Phe;0.771,0.798,0.759,0.742,0.754,0.821,0.771,0.772,(6.6101)+(-0.0160)Asn+(0.0041)Gly+(-0.1241)His+(-0.0036)Ala+(-0.0018)Arg+(0.0182)Leu;0.771,0.814,0.731,0.739,0.736,0.777,0.669,0.730,(-3.3379)+(0.0460)Ser+(-0.3522)Met+(0.0091)Orn+(-0.0108)Lys+(-0.0002)Leu+(0.1100)Phe;0.771,0.808,0.704,0.687,0.703,0.780,0.695,0.716,(-1.9971)+(0.0468)Ser+(-0.0006)Gln+(0.0039)Pro+(-0.0057)Tyr+(-0.3565)Met+(0.0628)Ile;0.771,0.816,0.783,0.792,0.802,0.791,0.711,0.774,(5.6610)+(0.0128)Thr+(-0.0210)Arg+(0.0175)Orn+(-0.0027)Lys+(0.0061)Leu+(-0.1567)Trp;0.771,0.803,0.763,0.741,0.758,0.804,0.800,0.776,(6.6779)+(-0.1054)His+(0.0088)Pro+(-0.0265)Val+(-0.1611)Met+(0.0092)Lys+(0.0522)Leu;0.771,0.815,0.710

,0.694,0.719,0.799,0.667,0.720,(-1.0950)+(0.0445)Ser+(0.0130)Thr+(-0.0145)Arg+(-0.3372)Met+(-0.0113)Lys+(0.0727)Ile;0.771,0.806,0.761,0.735,0.785,0.825,0.737,0.770,(6.9725)+(-0.1064)His+(-0.0649)Cit+(-0.0106)Tyr+(-0.0680)Met+(0.0547)Orn+(0.0025)Lys;0.771,0.806,0.766,0.767,0.741,0.833,0.769,0.778,(1.6558)+(0.0517)Ser+(-0.0729)Asn+(-0.0061)Gly+(-0.0064)Ala+(0.0150)Pro+(-0.1962)Met;0.771,0.798,0.734,0.718,0.689,0.821,0.808,0.759,(3.4838)+(0.0043)Thr+(-0.0673)Cit+(-0.0411)Val+(-0.0140)Lys+(0.1789)Ile+(-0.0284)Leu;0.771,0.812,0.746,0.737,0.686,0.837,0.831,0.772,(-1.4893)+(0.0483)Ser+(-0.1560)Asn+(-0.0083)Thr+(-0.0107)Ala+(0.0454)Ile+(0.0474)Phe;0.771,0.812,0.716,0.684,0.727,0.818,0.702,0.733,(1.1243)+(0.0455)Ser+(-0.1204)Asn+(-0.0808)Cit+(0.0026)Arg+(-0.0196)Lys+(0.0531)Ile;0.771,0.807,0.763,0.785,0.745,0.804,0.710,0.761,(0.2982)+(0.0484)Ser+(-0.1767)Asn+(-0.0176)Arg+(-0.0191)Val+(-0.0019)Lys+(0.1028)Phe;0.771,0.806,0.772,0.754,0.778,0.831,0.766,0.782,(6.9717)+(-0.1122)His+(-0.0023)Ala+(-0.0061)Arg+(0.0002)Val+(-0.0554)Met+(0.0402)Orn;0.771,0.802,0.752,0.726,0.757,0.785,0.787,0.764,(5.1275)+(-0.1336)His+(-0.0311)Cit+(-0.0014)Arg+(-0.0025)Lys+(0.0002)Leu+(0.0798)Phe;0.771,0.797,0.775,0.755,0.767,0.821,0.810,0.788,(7.3259)+(-0.0023)Asn+(-0.1051)His+(-0.0015)Ala+(-0.0218)Val+(-0.0902)Met+(0.0532)Leu;0.771,0.811,0.827,0.835,0.836,0.817,0.794,0.820,(7.1551)+(-0.0258)Asn+(-0.0008)Arg+(0.0205)Tyr+(0.0009)Val+(-0.0989)Met+(-0.1320)Trp;0.771,0.809,0.712,0.694,0.712,0.784,0.705,0.724,(-2.1355)+(0.0467)Ser+(-0.0002)Gln+(-0.0019)Tyr+(-0.3541)Met+(-0.0029)Orn+(0.0680)Ile;0.771,0.809,0.809,0.817,0.811,0.806,0.788,0.805,(6.3441)+(0.0010)Gly+(-0.0026)Ala+(-0.0007)Arg+(-0.1012)Met+(0.0185)Leu+(-0.1362)Trp;0.771,0.809,0.760,0.766,0.751,0.799,0.732,0.762,(0.5883)+(0.0509)Ser+(-0.1871)Asn+(-0.0023)Gly+(-0.0605)Cit+(-0.0173)Val+(0.1021)Phe;0.771,0.809,0.774,0.775,0.703,0.832,0.875,0.796,(1.2003)+(-0.0001)Gly+(-0.0120)Ala+(-0

.0121)Lys+(0.1664)Ile+(-0.0880)Leu+(0.0535)Phe;0.771,0.809,0.756,0.739,0.765,0.823,0.734,0.765,(6.1177)+(0.0028)Gly+(-0.1210)His+(-0.0004)Val+(-0.0976)Met+(0.0339)Orn+(0.0060)Lys;0.771,0.811,0.717,0.687,0.729,0.817,0.698,0.733,(1.1377)+(0.0456)Ser+(-0.1196)Asn+(0.0004)Thr+(-0.0790)Cit+(-0.0191)Lys+(0.0528)Ile;0.771,0.807,0.763,0.767,0.779,0.854,0.656,0.764,(3.6681)+(0.0357)Ser+(-0.1490)Asn+(-0.0942)Cit+(-0.0063)Arg+(-0.0128)Val+(0.0562)Orn;0.771,0.796,0.732,0.730,0.679,0.805,0.792,0.752,(3.0865)+(-0.0007)Gly+(0.0062)Thr+(-0.0336)Arg+(-0.0468)Val+(0.1896)Ile+(-0.0356)Leu;0.771,0.809,0.810,0.819,0.819,0.791,0.783,0.803,(6.7567)+(-0.0299)Asn+(-0.0036)Arg+(-0.1040)Met+(0.0082)Lys+(0.0116)Leu+(-0.1398)Trp;0.771,0.802,0.770,0.758,0.773,0.833,0.751,0.779,(7.5981)+(-0.0361)Asn+(-0.1137)His+(0.0212)Thr+(-0.0038)Ala+(-0.0372)Cit+(0.0031)Val;0.771,0.801,0.774,0.755,0.766,0.818,0.811,0.787,(7.0074)+(-0.1095)His+(-0.0015)Ala+(-0.0228)Val+(-0.1178)Met+(0.0081)Lys+(0.0523)Leu;0.771,0.805,0.743,0.713,0.765,0.812,0.731,0.755,(6.6180)+(-0.1179)His+(-0.0651)Cit+(0.0013)Arg+(-0.0263)Tyr+(0.0530)Orn+(0.0092)Leu;0.771,0.811,0.772,0.773,0.703,0.831,0.872,0.795,(1.1823)+(-0.0120)Ala+(0.0045)Orn+(-0.0127)Lys+(0.1649)Ile+(-0.0875)Leu+(0.0521)Phe;0.771,0.800,0.723,0.702,0.690,0.819,0.779,0.747,(2.6961)+(0.0000)Gly+(-0.0692)Cit+(-0.0246)Arg+(-0.0557)Val+(0.0408)Orn+(0.1541)Ile;0.771,0.815,0.768,0.770,0.738,0.849,0.765,0.781,(2.4535)+(0.0457)Ser+(-0.1068)Asn+(-0.0014)Ala+(-0.0429)Val+(-0.1803)Met+(0.0793)Leu;0.771,0.811,0.801,0.816,0.809,0.801,0.747,0.793,(6.1287)+(-0.0012)Gly+(-0.0175)Arg+(-0.0046)Val+(0.0276)Orn+(0.0034)Lys+(-0.1402)Trp;0.771,0.809,0.731,0.752,0.675,0.761,0.774,0.740,(0.9583)+(-0.0031)Pro+(-0.0732)Tyr+(-0.0097)Lys+(0.1648)Ile+(-0.0957)Leu+(0.0860)Phe;0.771,0.808,0.769,0.753,0.771,0.826,0.763,0.778,(7.1706)+(-0.0141)Asn+(-0.1124)His+(-0.0026)Ala+(-0.0073)Arg+(-0.0123)Tyr

+(0.0417)Orn;0.771,0.806,0.674,0.658,0.618,0.789,0.748,0.703,(2.1079)+(0.0243)Ser+(-0.0060)Gln+(-0.0436)Tyr+(-0.0517)Val+(0.0194)Orn+(0.1559)Ile;0.771,0.814,0.798,0.813,0.805,0.787,0.753,0.789,(6.1101)+(-0.0005)Gly+(-0.0155)Arg+(0.0069)Pro+(-0.0037)Val+(0.0055)Lys+(-0.1445)Trp;0.771,0.809,0.815,0.834,0.817,0.802,0.772,0.806,(7.0910)+(-0.0601)Asn+(0.0009)Gly+(-0.0081)Arg+(-0.0025)Val+(0.0096)Lys+(-0.1344)Trp;0.771,0.808,0.761,0.759,0.731,0.814,0.790,0.774,(3.5008)+(-0.0215)Asn+(-0.0184)Tyr+(-0.1916)Met+(0.0144)Orn+(0.1617)Ile+(-0.0804)Leu;0.771,0.805,0.746,0.765,0.728,0.788,0.702,0.746,(0.2893)+(0.0497)Ser+(-0.1875)Asn+(-0.0197)Arg+(0.0084)Pro+(-0.0226)Val+(0.0991)Phe;0.771,0.800,0.749,0.739,0.752,0.807,0.726,0.756,(6.8133)+(-0.0479)Asn+(0.0022)Gly+(-0.1244)His+(0.0173)Thr+(-0.0004)Val+(0.0023)Lys;0.771,0.814,0.705,0.723,0.701,0.731,0.644,0.700,(-3.7129)+(0.0459)Ser+(0.0118)Pro+(-0.0265)Tyr+(-0.3802)Met+(-0.0096)Leu+(0.1224)Phe;0.771,0.810,0.712,0.691,0.711,0.798,0.708,0.727,(-1.6114)+(0.0462)Ser+(0.0003)Gln+(-0.3166)Met+(0.0032)Orn+(-0.0126)Lys+(0.0723)Ile;0.771,0.811,0.709,0.701,0.721,0.788,0.650,0.715,(-1.5001)+(0.0439)Ser+(0.0120)Thr+(-0.0182)Arg+(-0.0054)Tyr+(-0.3584)Met+(0.0671)Ile;0.771,0.813,0.810,0.832,0.811,0.801,0.759,0.801,(5.0317)+(-0.0026)Gly+(0.0045)Gln+(-0.0189)Arg+(-0.0143)Tyr+(0.0229)Orn+(-0.1447)Trp;0.771,0.812,0.801,0.807,0.798,0.806,0.790,0.800,(5.6368)+(-0.0052)Ala+(-0.0049)Tyr+(0.0216)Orn+(-0.0026)Lys+(0.0119)Leu+(-0.1434)Trp;0.771,0.810,0.762,0.747,0.793,0.845,0.676,0.765,(2.0530)+(0.0434)Ser+(-0.0061)Gly+(-0.0987)Cit+(-0.2104)Met+(0.0498)Orn+(-0.0113)Lys;0.771,0.804,0.762,0.764,0.775,0.850,0.664,0.763,(3.5147)+(0.0362)Ser+(-0.1518)Asn+(-0.0024)Thr+(-0.0983)Cit+(-0.0125)Val+(0.0566)Orn;0.771,0.801,0.785,0.793,0.776,0.782,0.783,0.784,(1.0114)+(0.0033)Gly+(-0.0411)Val+(-0.3364)Met+(0.0003)Lys+(0.0581)Leu+(0.1110)Phe;0.771,0.813,0.746,0.734,0.704,0.852,0.791,0.770,(0.4927)+(0.045

1)Ser+(-0.1055)Asn+(-0.0092)Ala+(-0.0104)Arg+(-0.0143)Lys+(0.0645)Ile;0.770,0.810,0.765,0.749,0.762,0.842,0.759,0.778,(3.8513)+(-0.0874)Cit+(-0.0041)Arg+(-0.2073)Met+(0.0357)Orn+(0.1635)Ile+(-0.0829)Leu;0.770,0.809,0.757,0.736,0.766,0.809,0.756,0.767,(6.2065)+(0.0001)Asn+(-0.1174)His+(0.0065)Pro+(-0.1187)Met+(0.0309)Orn+(0.0057)Lys;0.770,0.801,0.734,0.725,0.740,0.803,0.693,0.740,(6.6313)+(0.0018)Gly+(-0.1195)His+(0.0165)Thr+(-0.0345)Cit+(0.0061)Pro+(-0.0230)Tyr;0.770,0.807,0.775,0.782,0.715,0.833,0.843,0.793,(1.5545)+(-0.0119)Ala+(-0.0293)Arg+(0.0029)Pro+(0.1753)Ile+(-0.0993)Leu+(0.0591)Phe;0.770,0.797,0.715,0.700,0.673,0.805,0.778,0.739,(2.9749)+(-0.0014)Gln+(0.0055)Thr+(-0.0367)Arg+(-0.0605)Val+(0.0257)Orn+(0.1646)Ile;0.770,0.812,0.742,0.725,0.778,0.843,0.641,0.747,(2.6038)+(0.0397)Ser+(-0.1302)Asn+(-0.1086)Cit+(0.0028)Pro+(0.0517)Orn+(-0.0165)Lys;0.770,0.806,0.771,0.769,0.789,0.857,0.678,0.773,(1.7110)+(0.0311)Ser+(0.0008)Gln+(-0.0060)Ala+(-0.1091)Cit+(-0.2011)Met+(0.0486)Orn;0.770,0.796,0.733,0.733,0.680,0.808,0.791,0.753,(3.0327)+(0.0064)Thr+(-0.0330)Arg+(-0.0034)Pro+(-0.0459)Val+(0.1950)Ile+(-0.0377)Leu;0.770,0.799,0.758,0.742,0.751,0.819,0.773,0.771,(6.6249)+(-0.0166)Asn+(0.0039)Gly+(-0.1238)His+(-0.0035)Ala+(-0.0034)Tyr+(0.0186)Leu;0.770,0.813,0.834,0.856,0.824,0.830,0.804,0.828,(5.1006)+(-0.0017)Gly+(0.0055)Gln+(-0.0035)Ala+(-0.0134)Arg+(0.0010)Tyr+(-0.1415)Trp;0.770,0.811,0.822,0.822,0.828,0.817,0.813,0.820,(6.3478)+(-0.0031)Ala+(-0.0015)Arg+(0.0232)Tyr+(-0.1299)Met+(0.0176)Leu+(-0.1407)Trp;0.770,0.796,0.734,0.741,0.672,0.803,0.797,0.753,(3.5288)+(0.0009)Gln+(-0.0260)Arg+(0.0008)Pro+(-0.0353)Tyr+(-0.0528)Val+(0.1607)Ile;0.770,0.811,0.753,0.754,0.743,0.824,0.723,0.761,(3.5184)+(0.0292)Thr+(0.0101)Pro+(-0.0025)Tyr+(-0.0482)Val+(-0.3561)Met+(0.0769)Leu;0.770,0.796,0.760,0.743,0.761,0.827,0.755,0.772,(6.8146)+(-0.0182)Asn+(0.0054)Gly+(-0.1154)His+(-0.0042)Ala+(-0.0401)Cit+(0.0206)Leu;0.770,0.8

06,0.746,0.715,0.769,0.817,0.732,0.758,(6.7676)+(-0.1154)His+(-0.0654)Cit+(-0.0243)Tyr+(0.0543)Orn+(-0.0026)Lys+(0.0099)Leu;0.770,0.801,0.762,0.745,0.761,0.821,0.767,0.774,(6.4996)+(0.0075)Asn+(0.0044)Gly+(-0.1215)His+(-0.0026)Ala+(-0.0916)Met+(0.0231)Leu;0.770,0.796,0.716,0.724,0.647,0.784,0.790,0.736,(3.1783)+(-0.0012)Gln+(0.0013)Thr+(-0.0445)Tyr+(-0.0405)Val+(0.1815)Ile+(-0.0355)Leu;0.770,0.795,0.728,0.716,0.682,0.814,0.792,0.751,(2.9359)+(0.0003)Gly+(0.0061)Thr+(-0.0428)Cit+(-0.0255)Arg+(-0.0553)Val+(0.1610)Ile;0.770,0.816,0.774,0.769,0.745,0.839,0.803,0.789,(2.6514)+(0.0542)Ser+(-0.1051)Asn+(-0.0059)Gly+(-0.0435)Val+(-0.1883)Met+(0.0780)Leu;0.770,0.809,0.755,0.752,0.730,0.815,0.774,0.768,(2.6441)+(0.0002)Gly+(0.0111)Thr+(-0.2833)Met+(0.0037)Orn+(0.1643)Ile+(-0.0794)Leu;0.770,0.808,0.759,0.728,0.783,0.822,0.743,0.769,(6.8642)+(-0.1108)His+(-0.0627)Cit+(-0.0119)Tyr+(-0.0766)Met+(0.0517)Orn+(0.0114)Leu;0.770,0.804,0.756,0.754,0.766,0.812,0.701,0.758,(2.1208)+(0.0517)Ser+(-0.0697)Asn+(-0.0044)Gly+(-0.0628)Cit+(0.0113)Pro+(-0.2215)Met;0.770,0.802,0.772,0.752,0.762,0.822,0.810,0.787,(6.7008)+(-0.1130)His+(-0.0051)Ala+(0.0103)Pro+(-0.1150)Met+(0.0073)Lys+(0.0145)Leu;0.770,0.800,0.735,0.715,0.691,0.827,0.814,0.762,(3.5692)+(0.0081)Thr+(-0.0653)Cit+(-0.0037)Pro+(-0.0496)Val+(-0.0176)Lys+(0.1644)Ile;0.770,0.798,0.744,0.725,0.736,0.802,0.768,0.758,(6.3059)+(0.0028)Gly+(-0.1256)His+(-0.0078)Tyr+(-0.0183)Val+(0.0014)Lys+(0.0423)Leu;0.770,0.798,0.758,0.741,0.752,0.818,0.775,0.772,(6.4705)+(-0.0220)Asn+(0.0040)Gly+(-0.1259)His+(-0.0037)Ala+(0.0031)Lys+(0.0169)Leu;0.770,0.797,0.759,0.746,0.755,0.831,0.748,0.770,(6.5860)+(0.0048)Gly+(-0.1092)His+(-0.0065)Ala+(-0.0442)Cit+(0.0105)Pro+(0.0044)Val;0.770,0.813,0.829,0.849,0.819,0.831,0.795,0.823,(4.8615)+(0.0051)Gln+(-0.0039)Ala+(-0.0139)Arg+(0.0017)Tyr+(0.0017)Val+(-0.1438)Trp;0.770,0.808,0.750,0.763,0.731,0.803,0.715,0.753,(0.1573)+(0.0451)Ser+(-0.1935)Asn+(-0.02

13)Val+(0.0269)Orn+(-0.0071)Lys+(0.0961)Phe;0.770,0.810,0.763,0.759,0.738,0.821,0.781,0.775,(3.1098)+(-0.0224)Asn+(0.0135)Thr+(-0.0000)Pro+(-0.2637)Met+(0.1614)Ile+(-0.0780)Leu;0.770,0.796,0.730,0.723,0.683,0.810,0.788,0.751,(2.8711)+(-0.0343)Arg+(-0.0047)Pro+(-0.0464)Val+(0.0271)Orn+(0.1952)Ile+(-0.0396)Leu;0.770,0.797,0.722,0.730,0.652,0.788,0.799,0.742,(3.1388)+(-0.0009)Gln+(-0.0021)Pro+(-0.0421)Tyr+(-0.0400)Val+(0.1850)Ile+(-0.0371)Leu;0.770,0.809,0.759,0.755,0.716,0.867,0.780,0.779,(2.9419)+(0.0391)Ser+(-0.1816)Asn+(-0.0042)Ala+(-0.0484)Val+(0.0357)Orn+(0.0725)Leu;0.770,0.807,0.743,0.736,0.752,0.795,0.703,0.746,(0.2227)+(0.0523)Ser+(-0.1482)Asn+(-0.0024)Gly+(-0.0772)Cit+(-0.0168)Lys+(0.0787)Phe;0.770,0.806,0.742,0.741,0.763,0.804,0.659,0.742,(1.7228)+(0.0471)Ser+(-0.0721)Asn+(-0.0704)Cit+(0.0106)Pro+(-0.2312)Met+(0.0059)Leu;0.770,0.797,0.759,0.750,0.744,0.822,0.766,0.771,(6.5575)+(-0.0334)Asn+(0.0037)Gly+(-0.1137)His+(-0.0054)Ala+(0.0100)Pro+(0.0067)Lys;0.770,0.813,0.691,0.700,0.691,0.728,0.640,0.690,(-3.7228)+(0.0485)Ser+(-0.0010)Gln+(0.0109)Pro+(-0.0259)Tyr+(-0.3891)Met+(0.1145)Phe;0.770,0.807,0.775,0.780,0.718,0.832,0.837,0.792,(1.5260)+(-0.0113)Ala+(-0.0312)Arg+(0.0112)Orn+(0.1768)Ile+(-0.1008)Leu+(0.0565)Phe;0.770,0.799,0.693,0.672,0.647,0.803,0.764,0.722,(-1.3367)+(0.0217)Ser+(-0.0822)Cit+(-0.0375)Val+(0.1847)Ile+(-0.0537)Leu+(0.0446)Phe;0.770,0.816,0.746,0.765,0.730,0.781,0.701,0.744,(-3.2068)+(0.0436)Ser+(-0.0033)Ala+(-0.0135)Tyr+(-0.3312)Met+(-0.0015)Leu+(0.1138)Phe;0.770,0.809,0.718,0.728,0.680,0.743,0.754,0.726,(-0.8551)+(0.0554)Ser+(-0.1612)Asn+(-0.0065)Gly+(-0.0744)Tyr+(0.0263)Ile+(0.0741)Phe;0.770,0.804,0.761,0.727,0.788,0.824,0.749,0.772,(6.7273)+(-0.1118)His+(-0.0619)Cit+(-0.0962)Met+(0.0494)Orn+(0.0004)Lys+(0.0110)Leu;0.770,0.800,0.777,0.764,0.765,0.840,0.793,0.791,(4.5860)+(-0.0656)Asn+(-0.0109)Ala+(-0.1125)Cit+(-0.0332)Tyr+(0.0483)Orn+(0.0487)Ile;0.770,0.813,0.744,0.759,0.730

,0.753,0.727,0.742,(-3.0229)+(0.0536)Ser+(-0.0069)Gly+(-0.0238)Tyr+(-0.3312)Met+(-0.0043)Leu+(0.1138)Phe;0.770,0.805,0.736,0.713,0.741,0.797,0.742,0.748,(6.1849)+(-0.1286)His+(0.0040)Pro+(-0.0277)Tyr+(0.0330)Orn+(0.0003)Lys+(0.0088)Leu;0.770,0.804,0.770,0.732,0.771,0.851,0.810,0.791,(2.9347)+(-0.0138)Ala+(-0.1306)Cit+(0.0523)Orn+(-0.0252)Lys+(0.0574)Ile+(0.0369)Phe;0.770,0.810,0.807,0.818,0.810,0.791,0.786,0.801,(6.5771)+(-0.0603)Asn+(0.0008)Gly+(-0.0037)Tyr+(0.0044)Lys+(0.0082)Leu+(-0.1422)Trp;0.770,0.809,0.754,0.762,0.718,0.815,0.760,0.764,(-0.4788)+(0.0460)Ser+(-0.1546)Asn+(-0.0105)Ala+(-0.0187)Arg+(0.0101)Pro+(0.0680)Phe;0.770,0.807,0.751,0.761,0.749,0.790,0.697,0.749,(0.5758)+(0.0465)Ser+(-0.1983)Asn+(0.0
061)Thr+(-0.0658)Cit+(-0.0181)Val+(0.1046)Phe;0.770,0.809,0.763,0.735,0.787,0.828,0.740,0.772,(6.9793)+(-0.1051)His+(-0.0688)Cit+(0.0032)Arg+(-0.0098)Tyr+(-0.0652)Met+(0.0562)Orn;0.770,0.805,0.756,0.752,0.761,0.814,0.717,0.761,(7.6230)+(-0.0441)Asn+(-0.1128)His+(0.0222)Thr+(-0.0314)Cit+(-0.0188)Tyr+(0.0030)Lys;0.770,0.804,0.755,0.754,0.760,0.806,0.711,0.758,(7.6825)+(-0.0317)Asn+(-0.1193)His+(0.0242)Thr+(-0.0117)Arg+(-0.0186)Tyr+(0.0013)Val;0.770,0.797,0.671,0.632,0.617,0.773,0.812,0.709,(0.4130)+(0.0370)Ser+(-0.0071)Gly+(-0.0066)Gln+(-0.0585)Val+(0.1551)Ile+(0.0322)Phe;0.770,0.812,0.739,0.751,0.727,0.748,0.726,0.738,(-3.2564)+(0.0540)Ser+(-0.0068)Gly+(0.0003)Gln+(-0.0236)Tyr+(-0.3408)Met+(0.1095)Phe;0.770,0.812,0.825,0.838,0.815,0.820,0.813,0.822,(4.7320)+(-0.0012)Gly+(0.0051)Gln+(-0.0048)Ala+(-0.0138)Arg+(0.0132)Leu+(-0.1509)Trp;0.770,0.809,0.772,0.753,0.773,0.832,0.772,0.783,(6.8083)+(-0.1140)His+(-0.0023)Ala+(-0.0043)Tyr+(0.0008)Val+(-0.0576)Met+(0.0389)Orn;0.770,0.801,0.758,0.739,0.764,0.819,0.755,0.769,(6.8179)+(0.0050)Gly+(-0.1062)His+(-0.0273)Cit+(-0.0197)Val+(-0.1098)Met+(0.0519)Leu;0.770,0.801,0.720,0.718,0.652,0.785,0.817,0.743,(3.7547)+(-0.004

0)Gly+(-0.0020)Gln+(-0.0499)Tyr+(-0.0531)Val+(0.0256)Orn+(0.1545)Ile;0.770,0.800,0.742,0.730,0.693,0.825,0.819,0.767,(3.2316)+(0.0017)Gln+(-0.0521)Cit+(-0.0140)Arg+(-0.0506)Val+(-0.0117)Lys+(0.1606)Ile;0.770,0.800,0.749,0.763,0.704,0.814,0.756,0.759,(2.3363)+(0.0029)Gln+(-0.0832)Cit+(-0.0025)Pro+(-0.0509)Tyr+(0.1679)Ile+(-0.0860)Leu;0.770,0.811,0.718,0.690,0.728,0.819,0.699,0.734,(1.1336)+(0.0457)Ser+(-0.1181)Asn+(-0.0788)Cit+(-0.0011)Pro+(-0.0190)Lys+(0.0545)Ile;0.770,0.810,0.820,0.829,0.831,0.814,0.776,0.812,(6.5615)+(0.0010)Gly+(-0.0030)Arg+(0.0226)Tyr+(0.0014)Val+(-0.1252)Met+(-0.1347)Trp;0.770,0.808,0.726,0.761,0.711,0.762,0.643,0.719,(-0.5472)+(0.0472)Ser+(-0.1550)Asn+(-0.0207)Arg+(-0.0652)Tyr+(0.0172)Orn+(0.0887)Phe;0.770,0.798,0.722,0.697,0.738,0.796,0.702,0.733,(5.9851)+(0.0027)Gly+(-0.1424)His+(0.0169)Thr+(-0.0142)Arg+(0.0021)Pro+(0.0123)Leu;0.770,0.810,0.710,0.698,0.716,0.783,0.680,0.719,(-1.7710)+(0.0481)Ser+(-0.0150)Arg+(0.0043)Pro+(-0.3459)Met+(-0.0005)Orn+(0.0624)Ile;0.770,0.810,0.750,0.736,0.693,0.833,0.845,0.777,(-0.9385)+(0.0500)Ser+(-0.1643)Asn+(-0.0041)Gly+(-0.0110)Ala+(0.0413)Ile+(0.0447)Phe;0.770,0.809,0.757,0.740,0.768,0.825,0.734,0.767,(6.3745)+(0.0025)Gly+(-0.1180)His+(-0.0025)Tyr+(0.0005)Val+(-0.0762)Met+(0.0366)Orn;0.770,0.808,0.779,0.786,0.719,0.833,0.845,0.796,(1.7091)+(-0.0111)Ala+(-0.0268)Arg+(-0.0035)Lys+(0.1776)Ile+(-0.0980)Leu+(0.0610)Phe;0.770,0.802,0.749,0.720,0.756,0.783,0.785,0.761,(5.0711)+(-0.1337)His+(-0.0312)Cit+(-0.0019)Arg+(0.0021)Pro+(-0.0028)Lys+(0.0782)Phe;0.770,0.802,0.703,0.667,0.674,0.798,0.792,0.733,(2.1042)+(-0.0036)Gln+(-0.0901)Cit+(-0.0560)Val+(0.0402)Orn+(0.1458)Ile+(0.0295)Phe;0.770,0.801,0.771,0.765,0.774,0.833,0.740,0.778,(7.8857)+(-0.0365)Asn+(-0.1103)His+(0.0230)Thr+(-0.0030)Ala+(-0.0309)Cit+(-0.0059)Arg;0.770,0.799,0.726,0.708,0.695,0.823,0.767,0.748,(2.9276)+(-0.0721)Cit+(-0.0240)Arg+(-0.0434)Val+(0.0399)Orn+(0.1826)Ile+(-0.0390)Leu;0.770

,0.797,0.715,0.696,0.649,0.807,0.837,0.747,(-0.1533)+(0.0384)Ser+(-0.0082)Gly+(-0.0168)Thr+(-0.0400)Val+(0.1841)Ile+(-0.0432)Leu;0.770,0.814,0.728,0.740,0.731,0.762,0.663,0.724,(-3.6847)+(0.0453)Ser+(-0.0004)Gln+(-0.3775)Met+(0.0045)Orn+(-0.0046)Leu+(0.1100)Phe;0.770,0.806,0.752,0.727,0.773,0.819,0.728,0.762,(6.8956)+(-0.1098)His+(-0.0669)Cit+(-0.0212)Tyr+(-0.0007)Val+(0.0571)Orn+(-0.0003)Lys;0.770,0.804,0.736,0.720,0.747,0.803,0.707,0.744,(6.3675)+(0.0022)Gly+(-0.1209)His+(-0.0105)Arg+(0.0055)Pro+(-0.0221)Tyr+(0.0368)Orn;0.770,0.807,0.765,0.764,0.786,0.855,0.661,0.766,(2.0051)+(0.0305)Ser+(0.0050)Thr+(-0.0060)Ala+(-0.1085)Cit+(-0.2133)Met+(0.0475)Orn;0.770,0.806,0.770,0.785,0.748,0.799,0.754,0.771,(0.6277)+(0.0544)Ser+(-0.1769)Asn+(-0.0049)Gly+(-0.0180)Arg+(-0.0197)Val+(0.0998)Phe;0.770,0.805,0.770,0.781,0.702,0.834,0.838,0.789,(3.4145)+(-0.0001)Thr+(-0.0094)Ala+(-0.0352)Tyr+(-0.0053)Lys+(0.1706)Ile+(-0.0810)Leu;0.770,0.801,0.747,0.720,0.755,0.778,0.778,0.758,(4.9910)+(-0.1348)His+(-0.0290)Cit+(-0.0040)Arg+(0.0022)Pro+(-0.0023)Leu+(0.0784)Phe;0.770,0.808,0.796,0.800,0.755,0.860,0.827,0.810,(2.3604)+(-0.1160)Asn+(0.0071)Gln+(-0.0860)Cit+(-0.0053)Pro+(0.1618)Ile+(-0.0844)Leu;0.770,0.812,0.736,0.758,0.739,0.766,0.649,0.728,(-3.4075)+(0.0463)Ser+(0.0009)Gln+(-0.0183)Arg+(-0.0179)Tyr+(-0.3368)Met+(0.1162)Phe;0.770,0.810,0.715,0.697,0.719,0.802,0.693,0.728,(-1.2976)+(0.0472)Ser+(-0.0109)Arg+(-0.3036)Met+(0.0059)Orn+(-0.0110)Lys+(0.0710)Ile;0.770,0.804,0.767,0.786,0.786,0.838,0.625,0.759,(3.3172)+(0.0373)Ser+(-0.0905)Asn+(0.0157)Thr+(-0.0639)Cit+(-0.0035)Val+(-0.1861)Met;0.770,0.811,0.803,0.811,0.804,0.812,0.773,0.800,(5.9955)+(-0.0049)Ala+(-0.0131)Arg+(-0.0022)Tyr+(0.0253)Orn+(0.0103)Leu+(-0.1424)Trp;0.770,0.809,0.755,0.758,0.756,0.807,0.708,0.757,(-0.8300)+(0.0461)Ser+(-0.1690)Asn+(0.0044)Gln+(-0.0881)Cit+(-0.0173)Lys+(0.0787)Phe;0.770,0.808,0.708,0.692,0.705,0.782,0.704,0.721,(-2.1372)+(0.0466)Ser+(0.0

039)Pro+(-0.0047)Tyr+(-0.3603)Met+(-0.0041)Orn+(0.0639)Ile;0.770,0.804,0.731,0.700,0.758,0.819,0.694,0.743,(5.8057)+(0.0039)Gly+(-0.1200)His+(-0.0693)Cit+(0.0035)Pro+(-0.0024)Val+(0.0502)Orn;0.770,0.801,0.722,0.748,0.659,0.748,0.768,0.731,(0.3472)+(0.0002)Gln+(-0.0050)Thr+(-0.0770)Tyr+(0.1631)Ile+(-0.1005)Leu+(0.0819)Phe;0.770,0.797,0.733,0.718,0.689,0.821,0.803,0.758,(3.5389)+(0.0017)Gly+(-0.0531)Cit+(-0.0122)Arg+(-0.0507)Val+(-0.0110)Lys+(0.1617)Ile;0.770,0.799,0.720,0.696,0.690,0.817,0.777,0.745,(3.0473)+(-0.0010)Gln+(-0.0692)Cit+(-0.0231)Arg+(-0.0559)Val+(0.0423)Orn+(0.1549)Ile;0.770,0.794,0.754,0.734,0.748,0.825,0.771,0.769,(6.5720)+(0.0043)Gly+(-0.1158)His+(-0.0038)Ala+(-0.0329)Cit+(-0.0149)Val+(0.0423)Leu;0.770,0.812,0.762,0.755,0.750,0.839,0.752,0.774,(3.4440)+(0.0047)Gly+(-0.0745)Cit+(0.0002)Pro+(-0.2179)Met+(0.1723)Ile+(-0.0798)Leu;0.770,0.794,0.756,0.734,0.746,0.801,0.802,0.771,(7.0703)+(-0.0453)Asn+(-0.1108)His+(0.0055)Pro+(-0.0254)Val+(0.0041)Lys+(0.0460)Leu;0.770,0.812,0.742,0.737,0.688,0.844,0.792,0.765,(0.8455)+(0.0431)Ser+(-0.1059)Asn+(-0.0083)Ala+(-0.0250)Tyr+(-0.0137)Lys+(0.0664)Ile;0.770,0.810,0.787,0.788,0.724,0.860,0.863,0.809,(3.7584)+(-0.0709)Asn+(0.0019)Gly+(-0.0097)Ala+(-0.0025)Lys+(0.1643)Ile+(-0.0806)Leu;0.770,0.794,0.729,0.721,0.677,0.808,0.799,0.751,(2.9032)+(-0.0003)Gln+(0.0079)Thr+(-0.0335)Arg+(-0.0022)Pro+(-0.0584)Val+(0.1674)Ile;0.770,0.807,0.776,0.763,0.757,0.796,0.836,0.788,(0.6132)+(-0.0102)Ala+(0.0093)Pro+(-0.3014)Met+(0.0006)Orn+(0.0476)Ile+(0.0687)Phe;0.770,0.805,0.768,0.728,0.765,0.859,0.815,0.792,(3.7362)+(-0.0137)Ala+(-0.1401)Cit+(0.0132)Arg+(0.0539)Orn+(-0.0257)Lys+(0.0651)Ile;0.770,0.795,0.723,0.712,0.676,0.812,0.788,0.747,(2.5526)+(0.0051)Thr+(-0.0375)Arg+(-0.0039)Pro+(-0.0601)Val+(0.0260)Orn+(0.1673)Ile;0.770,0.806,0.766,0.767,0.764,0.823,0.728,0.771,(7.8567)+(-0.0323)Asn+(-0.1147)His+(0.0243)Thr+(-0.0019)Ala+(-0.0113)Arg+(-0.0130)Tyr;0.770,0.806,0.755,

0.767,0.737,0.831,0.705,0.760,(1.5735)+(0.0411)Ser+(-0.0812)Asn+(0.0075)Thr+(-0.0065)Ala+(0.0144)Pro+(-0.2122)Met;0.770,0.803,0.752,0.764,0.708,0.794,0.781,0.762,(4.0659)+(-0.0796)Asn+(-0.0004)Gly+(-0.0486)Tyr+(0.0194)Orn+(0.1476)Ile+(-0.0812)Leu;0.770,0.801,0.772,0.793,0.715,0.810,0.806,0.781,(3.0027)+(-0.0977)Asn+(-0.0008)Gly+(0.0047)Gln+(-0.0463)Tyr+(0.1493)Ile+(-0.0805)Leu;0.770,0.805,0.723,0.686,0.754,0.814,0.694,0.737,(5.4354)+(0.0045)Gly+(-0.1289)His+(-0.0681)Cit+(0.0018)Pro+(0.0457)Orn+(0.0074)Leu;0.770,0.802,0.746,0.724,0.755,0.802,0.743,0.756,(6.0753)+(0.0097)Asn+(0.0047)Gly+(-0.1212)His+(0.0068)Pro+(-0.1323)Met+(0.0183)Leu;0.770,0.811,0.832,0.852,0.822,0.826,0.803,0.826,(5.0025)+(-0.0016)Gly+(0.0052)Gln+(-0.0037)Ala+(-0.0157)Arg+(0.0037)Lys+(-0.1445)Trp;0.770,0.805,0.776,0.800,0.787,0.759,0.703,0.762,(1.4173)+(-0.0869)Asn+(0.0021)Gly+(0.0315)Thr+(-0.0191)Val+(-0.2985)Met+(0.1305)Phe;0.770,0.817,0.740,0.737,0.732,0.851,0.685,0.751,(1.2210)+(0.0335)Ser+(0.0232)Thr+(-0.0446)Val+(-0.3469)Met+(-0.0079)Lys+(0.0853)Leu;0.770,0.806,0.752,0.727,0.773,0.820,0.727,0.762,(6.8929)+(-0.1099)His+(-0.0664)Cit+(-0.0004)Arg+(-0.0213)Tyr+(-0.0008)Val+(0.0569)Orn;0.770,0.802,0.764,0.784,0.712,0.807,0.789,0.773,(3.0240)+(-0.1019)Asn+(0.0039)Gln+(-0.0480)Tyr+(0.0137)Orn+(0.1462)Ile+(-0.0806)Leu;0.770,0.800,0.744,0.754,0.704,0.809,0.753,0.755,(3.4613)+(0.0010)Thr+(-0.0765)Cit+(-0.0018)Pro+(-0.0488)Tyr+(0.1659)Ile+(-0.0849)Leu;0.770,0.803,0.728,0.697,0.745,0.802,0.721,0.741,(5.7072)+(0.0034)Gly+(-0.1345)His+(-0.0106)Arg+(0.0026)Pro+(0.0297)Orn+(0.0074)Leu;0.770,0.799,0.772,0.751,0.763,0.823,0.807,0.786,(6.9103)+(-0.1096)His+(-0.0050)Ala+(0.0024)Arg+(0.0099)Pro+(-0.0985)Met+(0.0173)Leu;0.770,0.811,0.708,0.685,0.707,0.794,0.708,0.724,(-1.5262)+(0.0470)Ser+(0.0034)Pro+(-0.0018)Tyr+(-0.3227)Met+(-0.0118)Lys+(0.0692)Ile;0.770,0.805,0.773,0.776,0.780,0.833,0.705,0.773,(2.2240)+(0.0438)Ser+(-0.0724)Asn+(-0.0042)Ala+(-0

.0692)Cit+(-0.1621)Met+(0.0145)Leu;0.770,0.799,0.728,0.711,0.683,0.815,0.802,0.753,(3.2277)+(-0.0285)Arg+(-0.0037)Pro+(-0.0568)Val+(0.0319)Orn+(-0.0106)Lys+(0.1679)Ile;0.770,0.809,0.776,0.767,0.758,0.837,0.792,0.789,(4.1829)+(-0.0046)Asn+(-0.0652)Cit+(0.0003)Pro+(-0.2021)Met+(0.1689)Ile+(-0.0802)Leu;0.769,0.811,0.762,0.758,0.738,0.822,0.778,0.774,(3.1602)+(-0.0213)Asn+(0.0138)Thr+(-0.2624)Met+(-0.0012)Lys+(0.1612)Ile+(-0.0774)Leu;0.769,0.810,0.775,0.777,0.702,0.833,0.877,0.797,(0.9511)+(0.0008)Gln+(-0.0120)Ala+(-0.0128)Lys+(0.1663)Ile+(-0.0878)Leu+(0.0524)Phe;0.769,0.805,0.761,0.746,0.764,0.819,0.756,0.771,(6.8687)+(-0.1195)His+(-0.0028)Ala+(-0.0112)Arg+(-0.0163)Tyr+(0.0397)Orn+(0.0055)Lys;0.769,0.799,0.688,0.655,0.654,0.806,0.759,0.719,(-0.8905)+(0.0167)Ser+(-0.0950)Cit+(-0.0534)Val+(0.0292)Orn+(0.1385)Ile+(0.0252)Phe;0.769,0.798,0.738,0.749,0.701,0.805,0.739,0.749,(3.3078)+(0.0009)Gly+(0.0001)Thr+(-0.0778)Cit+(-0.0493)Tyr+(0.1639)Ile+(-0.0846)Leu;0.769,0.804,0.764,0.723,0.764,0.851,0.806,0.786,(3.9154)+(-0.0148)Ala+(-0.1294)Cit+(0.0067)Pro+(0.0523)Orn+(-0.0225)Lys+(0.0584)Ile;0.769,0.803,0.766,0.746,0.767,0.829,0.772,0.778,(6.4051)+(0.0049)Gly+(-0.1217)His+(-0.0030)Ala+(0.0119)Tyr+(-0.1025)Met+(0.0227)Leu;0.769,0.800,0.737,0.726,0.744,0.801,0.706,0.744,(6.8249)+(-0.1193)His+(0.0175)Thr+(-0.0317)Cit+(0.0060)Pro+(-0.02

58)Tyr+(0.0008)Lys;0.769,0.799,0.768,0.748,0.759,0.820,0.804,0.783,(6.7520)+(0.0164)Asn+(-0.1117)His+(-0.0050)Ala+(0.0100)Pro+(-0.1106)Met+(0.0180)Leu;0.769,0.813,0.803,0.819,0.810,0.797,0.751,0.794,(4.4983)+(0.0038)Gln+(-0.0198)Arg+(0.0184)Orn+(-0.0013)Lys+(0.0052)Leu+(-0.1544)Trp;0.769,0.813,0.765,0.756,0.783,0.826,0.707,0.768,(7.1195)+(-0.1124)His+(0.0281)Thr+(-0.0311)Cit+(0.0022)Tyr+(-0.1667)Met+(0.0058)Lys;0.769,0.803,0.741,0.716,0.754,0.801,0.735,0.752,(6.8229)+(-0.0355)Asn+(-0.1339)His+(0.0210)Thr+(-0.0110)Arg+(0.0020)Pro+(0.0111)Leu;0.769

,0.800,0.760,0.744,0.756,0.831,0.762,0.773,(6.8285)+(-0.1166)His+(0.0156)Thr+(-0.0065)Ala+(-0.0403)Cit+(0.0086)Pro+(0.0027)Val;0.769,0.799,0.723,0.706,0.680,0.811,0.796,0.748,(3.2639)+(-0.0003)Gln+(-0.0292)Arg+(-0.0569)Val+(0.0301)Orn+(-0.0104)Lys+(0.1641)Ile;0.769,0.799,0.747,0.760,0.704,0.810,0.756,0.758,(2.4119)+(-0.0005)Gly+(0.0029)Gln+(-0.0821)Cit+(-0.0534)Tyr+(0.1639)Ile+(-0.0853)Leu;0.769,0.810,0.743,0.728,0.692,0.854,0.809,0.771,(0.3148)+(0.0453)Ser+(-0.1098)Asn+(-0.0028)Thr+(-0.0093)Ala+(-0.0157)Lys+(0.0651)Ile;0.769,0.800,0.721,0.711,0.697,0.832,0.717,0.739,(-0.0620)+(0.0368)Ser+(-0.0152)Thr+(-0.0610)Cit+(-0.0224)Arg+(0.1760)Ile+(-0.0943)Leu;0.769,0.792,0.694,0.663,0.635,0.794,0.825,0.729,(1.0849)+(0.0398)Ser+(-0.0071)Gly+(-0.0045)Gln+(-0.0110)Thr+(-0.0539)Val+(0.1556)Ile;0.769,0.811,0.773,0.768,0.752,0.834,0.786,0.785,(4.2906)+(-0.0649)Cit+(0.0008)Pro+(-0.0127)Tyr+(-0.1867)Met+(0.1690)Ile+(-0.0799)Leu;0.769,0.806,0.743,0.731,0.739,0.839,0.715,0.756,(3.4900)+(-0.1047)Asn+(0.0052)Gly+(-0.1075)Cit+(0.0393)Orn+(0.1446)Ile+(-0.0823)Leu;0.769,0.803,0.722,0.687,0.706,0.842,0.759,0.749,(0.1286)+(0.0289)Ser+(-0.0024)Gln+(-0.0158)Ala+(-0.1262)Cit+(0.0357)Orn+(0.0563)Ile;0.769,0.800,0.763,0.738,0.758,0.808,0.804,0.777,(6.8622)+(-0.1025)His+(0.0041)Arg+(0.0082)Pro+(-0.0254)Val+(-0.1388)Met+(0.0544)Leu;0.769,0.797,0.739,0.725,0.692,0.827,0.814,0.765,(3.0885)+(0.0013)Gln+(-0.0683)Cit+(-0.0392)Val+(-0.0131)Lys+(0.1795)Ile+(-0.0321)Leu;0.769,0.806,0.759,0.739,0.770,0.818,0.748,0.769,(6.6829)+(-0.1085)His+(-0.0061)Arg+(0.0069)Pro+(-0.0029)Val+(-0.0917)Met+(0.0372)Orn;0.769,0.806,0.756,0.734,0.769,0.815,0.748,0.766,(6.5453)+(0.0046)Asn+(-0.1130)His+(-0.0056)Arg+(0.0064)Pro+(-0.0990)Met+(0.0351)Orn;0.769,0.806,0.734,0.723,0.697,0.828,0.772,0.755,(0.4587)+(0.0360)Ser+(-0.1615)Asn+(0.0015)Gln+(0.0037)Orn+(0.1397)Ile+(-0.0769)Leu;0.769,0.806,0.739,0.711,0.755,0.809,0.732,0.752,(6.1026)+(-0.0238)Asn+(0.0037)Gly

+(-0.1294)His+(-0.0079)Arg+(0.0317)Orn+(0.0090)Leu;0.769,0.805,0.762,0.778,0.786,0.828,0.622,0.753,(2.9494)+(0.0384)Ser+(-0.0848)Asn+(0.0152)Thr+(-0.0673)Cit+(-0.1978)Met+(-0.0015)Lys;0.769,0.812,0.785,0.783,0.771,0.844,0.775,0.793,(5.1701)+(-0.0905)Asn+(0.0354)Thr+(0.0016)Tyr+(-0.0520)Val+(-0.2633)Met+(0.0874)Leu;0.769,0.807,0.750,0.730,0.758,0.865,0.701,0.764,(2.2014)+(0.0286)Ser+(-0.0125)Ala+(-0.1274)Cit+(0.0115)Pro+(0.0569)Orn+(-0.0205)Lys;0.769,0.810,0.711,0.690,0.711,0.797,0.707,0.726,(-1.5499)+(0.0465)Ser+(0.0001)Tyr+(-0.3156)Met+(0.0035)Orn+(-0.0126)Lys+(0.0723)Ile;0.769,0.808,0.724,0.763,0.708,0.758,0.631,0.715,(-0.3117)+(0.0455)Ser+(-0.1600)Asn+(0.0081)Thr+(-0.0214)Arg+(-0.0672)Tyr+(0.0951)Phe;0.769,0.800,0.772,0.749,0.766,0.815,0.811,0.785,(7.1253)+(-0.0061)Asn+(-0.1066)His+(0.0056)Arg+(-0.0234)Val+(-0.1062)Met+(0.0551)Leu;0.769,0.796,0.729,0.739,0.655,0.789,0.814,0.750,(3.4297)+(-0.0032)Gly+(-0.0001)Gln+(-0.0459)Tyr+(-0.0400)Val+(0.1815)Ile+(-0.0366)Leu;0.769,0.812,0.798,0.814,0.801,0.793,0.751,0.790,(6.4481)+(-0.0006)Gly+(-0.0105)Arg+(0.0076)Pro+(-0.0091)Tyr+(-0.0020)Val+(-0.1373)Trp;0.769,0.804,0.727,0.698,0.760,0.817,0.672,0.737,(5.9607)+(0.0033)Gly+(-0.1276)His+(0.0109)Thr+(-0.0625)Cit+(-0.0080)Arg+(0.0458)Orn;0.769,0.802,0.741,0.730,0.755,0.805,0.698,0.747,(6.9162)+(-0.0395)Asn+(0.0027)Gly+(-0.1233)His+(0.0193)Thr+(-0.0126)Arg+(0.0044)Pro;0.769,0.799,0.749,0.763,0.704,0.811,0.760,0.759,(2.3398)+(0.0031)Gln+(-0.0027)Thr+(-0.0818)Cit+(-0.0512)Tyr+(0.1652)Ile+(-0.0860)Leu;0.769,0.808,0.772,0.776,0.695,0.830,0.878,0.795,(0.6378)+(0.0006)Gly+(-0.0103)Thr+(-0.0119)Ala+(0.1734)Ile+(-0.0961)Leu+(0.0508)Phe;0.769,0.807,0.755,0.728,0.766,0.815,0.763,0.768,(6.4403)+(0.0063)Asn+(-0.1236)His+(-0.0080)Tyr+(-0.0934)Met+(0.0339)Orn+(0.0142)Leu;0.769,0.811,0.747,0.734,0.696,0.853,0.814,0.774,(0.1648)+(0.0433)Ser+(-0.1185)Asn+(0.0012)Gln+(-0.0094)Ala+(-0.0164)Lys+(0.0636)Ile;0.769,0.810,0.711,0.699,0

.716,0.783,0.681,0.720,(-1.8638)+(0.0476)Ser+(0.0004)Gln+(-0.0155)Arg+(0.0042)Pro+(-0.3472)Met+(0.0621)Ile;0.769,0.799,0.762,0.739,0.758,0.806,0.798,0.775,(7.0486)+(-0.0027)Asn+(-0.1009)His+(0.0084)Pro+(-0.0253)Val+(-0.1292)Met+(0.0537)Leu;0.769,0.808,0.779,0.787,0.745,0.837,0.788,0.789,(1.7227)+(0.0005)Gly+(0.0060)Gln+(-0.0225)Arg+(-0.2445)Met+(0.1759)Ile+(-0.0865)Leu;0.769,0.806,0.736,0.714,0.748,0.803,0.718,0.746,(6.2346)+(0.0026)Gly+(-0.1299)His+(-0.0085)Arg+(-0.0199)Tyr+(0.0352)Orn+(0.0109)Leu;0.769,0.806,0.773,0.779,0.782,0.861,0.676,0.774,(2.8237)+(0.0333)Ser+(-0.1706)Asn+(0.0034)Gln+(-0.1013)Cit+(-0.0130)Val+(0.0534)Orn;0.769,0.797,0.732,0.732,0.679,0.808,0.786,0.751,(2.7692)+(0.0006)Gln+(0.0053)Thr+(-0.0345)Arg+(-0.0461)Val+(0.1898)Ile+(-0.0370)Leu;0.769,0.809,0.781,0.786,0.766,0.795,0.788,0.784,(1.2810)+(-0.0093)Tyr+(-0.0430)Val+(-0.3138)Met+(0.0293)Orn+(0.0562)Leu+(0.1026)Phe;0.769,0.807,0.752,0.727,0.762,0.807,0.759,0.764,(6.4029)+(-0.1186)His+(0.0056)Pro+(-0.0122)Tyr+(-0.0993)Met+(0.0322)Orn+(0.0115)Leu;0.769,0.807,0.761,0.765,0.739,0.798,0.766,0.767,(0.4139)+(0.0508)Ser+(-0.2042)Asn+(-0.0052)Gly+(-0.0232)Val+(0.0257)Orn+(0.0926)Phe;0.769,0.804,0.790,0.790,0.753,0.852,0.822,0.804,(2.3926)+(-0.1199)Asn+(0.0066)Gln+(0.0008)Thr+(-0.0850)Cit+(0.1520)Ile+(-0.0830)Leu;0.769,0.802,0.791,0.801,0.773,0.796,0.800,0.792,(1.1221)+(0.0034)Gly+(-0.0028)Ala+(-0.0394)Val+(-0.3144)Met+(0.0581)Leu+(0.1101)Phe;0.769,0.799,0.772,0.752,0.766,0.814,0.806,0.784,(7.0957)+(-0.0100)Asn+(-0.1083)His+(-0.0245)Val+(-0.1192)Met+(0.0085)Lys+(0.0531)Leu;0.769,0.810,0.788,0.810,0.800,0.796,0.698,0.776,(6.3068)+(0.0160)Thr+(-0.0191)Arg+(-0.0100)Tyr+(-0.0014)Val+(0.0021)Lys+(-0.1475)Trp;0.769,0.809,0.716,0.704,0.719,0.789,0.688,0.725,(-1.9168)+(0.0468)Ser+(0.0006)Gln+(-0.0147)Arg+(-0.3378)Met+(0.0002)Orn+(0.0668)Ile;0.769,0.794,0.691,0.664,0.648,0.804,0.773,0.722,(1.2869)+(0.0304)Ser+(-0.0040)Gln+(-0.0091)Thr+(-0.0562)Ci

t+(-0.0505)Val+(0.1536)Ile;0.769,0.805,0.754,0.754,0.759,0.810,0.700,0.756,(7.5804)+(-0.0355)Asn+(0.0015)Gly+(-0.1177)His+(0.0234)Thr+(-0.0120)Arg+(-0.0150)Tyr;0.769,0.810,0.713,0.692,0.710,0.797,0.712,0.728,(-1.6607)+(0.0464)Ser+(0.0004)Gln+(0.0009)Tyr+(-0.3194)Met+(-0.0122)Lys+(0.0731)Ile;0.769,0.806,0.767,0.747,0.775,0.825,0.759,0.777,(6.5719)+(-0.0091)Asn+(-0.1158)His+(-0.0019)Val+(-0.0842)Met+(0.0360)Orn+(0.0060)Lys;0.769,0.802,0.767,0.761,0.757,0.830,0.759,0.777,(6.7514)+(0.0039)Gly+(-0.1035)His+(-0.0044)Ala+(0.0118)Pro+(0.0063)Tyr+(-0.0902)Met;0.769,0.808,0.758,0.741,0.773,0.826,0.726,0.766,(6.5787)+(-0.0051)Asn+(0.0029)Gly+(-0.1156)His+(-0.0068)Arg+(-0.0672)Met+(0.0382)Orn;0.769,0.806,0.778,0.798,0.799,0.768,0.688,0.763,(2.3109)+(-0.0764)Asn+(0.0352)Thr+(-0.0624)Cit+(-0.0160)Val+(-0.2967)Met+(0.1288)Phe;0.769,0.804,0.752,0.772,0.716,0.799,0.739,0.756,(4.7956)+(-0.0663)Asn+(0.0126)Thr+(-0.0239)Arg+(-0.0478)Tyr+(0.1576)Ile+(-0.0838)Leu;0.769,0.800,0.740,0.712,0.757,0.798,0.741,0.752,(6.8175)+(-0.0430)Asn+(-0.1285)His+(0.0199)Thr+(-0.0335)Cit+(0.0018)Pro+(0.0124)Leu;0.769,0.798,0.766,0.745,0.753,0.819,0.812,0.782,(6.7512)+(-0.0172)Asn+(-0.1186)His+(-0.0059)Ala+(0.0082)Pro+(0.0031)Lys+(0.0117)Leu;0.769,0.800,0.752,0.717,0.779,0.821,0.739,0.764,(6.7689)+(-0.0256)Asn+(-0.1105)His+(-0.0654)Cit+(0.0027)Pro+(0.0513)Orn+(-0.0019)Lys;0.769,0.809,0.755,0.744,0.710,0.844,0.815,0.778,(0.4527)+(0.0487)Ser+(-0.1251)Asn+(-0.0043)Gly+(-0.0098)Ala+(-0.0151)Arg+(0.0534)Ile;0.769,0.802,0.756,0.734,0.766,0.812,0.749,0.765,(6.8170)+(-0.0257)Asn+(-0.1125)His+(-0.0086)Arg+(0.0049)Pro+(-0.0049)Val+(0.0377)Orn;0.769,0.794,0.719,0.721,0.646,0.783,0.816,0.742,(3.7067)+(-0.0039)Gly+(-0.0014)Gln+(0.0062)Thr+(-0.0496)Tyr+(-0.0522)Val+(0.1570)Ile;0.769,0.810,0.789,0.797,0.807,0.784,0.731,0.780,(6.1410)+(-0.0020)Gly+(0.0165)Thr+(-0.0185)Arg+(-0.0020)Lys+(0.0086)Leu+(-0.1598)Trp;0.769,0.803,0.768,0.738,0.792,0.781,0.787,0.775

,(1.5054)+(-0.0776)Cit+(0.0134)Arg+(-0.2938)Met+(-0.0151)Lys+(0.0536)Ile+(0.0780)Phe;0.769,0.798,0.714,0.683,0.684,0.813,0.791,0.743,(2.8897)+(-0.0025)Gln+(-0.0047)Thr+(-0.0880)Cit+(-0.0534)Val+(0.0432)Orn+(0.1470)Ile;0.769,0.805,0.781,0.768,0.772,0.844,0.788,0.793,(3.1868)+(-0.0162)Asn+(0.0063)Gly+(-0.0095)Ala+(-0.0868)Cit+(-0.1817)Met+(0.0764)Ile;0.769,0.797,0.773,0.753,0.760,0.822,0.819,0.788,(7.4032)+(-0.0273)Asn+(-0.1096)His+(-0.0026)Ala+(0.0002)Tyr+(-0.0213)Val+(0.0482)Leu;0.769,0.810,0.712,0.718,0.653,0.787,0.769,0.732,(1.0802)+(0.0345)Ser+(-0.0099)Gly+(-0.0014)Gln+(-0.0610)Tyr+(0.1540)Ile+(-0.0810)Leu;0.769,0.810,0.714,0.748,0.695,0.745,0.642,0.707,(-0.6163)+(0.0487)Ser+(-0.1531)Asn+(-0.0201)Arg+(0.0063)Pro+(-0.0687)Tyr+(0.0905)Phe;0.769,0.807,0.738,0.719,0.777,0.756,0.692,0.736,(0.5949)+(-0.0306)Asn+(0.0319)Thr+(-0.0868)Cit+(-0.3951)Met+(0.0431)Ile+(0.0832)Phe;0.769,0.800,0.772,0.762,0.760,0.821,0.791,0.783,(6.8099)+(-0.0006)Asn+(-0.1073)His+(-0.0047)Ala+(0.0119)Pro+(-0.1055)Met+(0.0103)Lys;0.769,0.807,0.724,0.706,0.664,0.805,0.843,0.754,(1.5795)+(-0.0066)Pro+(-0.0549)Val+(0.0205)Orn+(-0.0202)Lys+(0.1614)Ile+(0.0328)Phe;0.769,0.802,0.752,0.741,0.762,0.805,0.723,0.758,(7.3530)+(-0.0386)Asn+(-0.1190)His+(0.0208)Thr+(-0.0122)Arg+(0.0047)Pro+(-0.0023)Val;0.769,0.797,0.759,0.750,0.759,0.820,0.740,0.767,(7.0339)+(-0.1282)His+(0.0192)Thr+(-0.0033)Ala+(-0.0142)Arg+(0.0018)Val+(0.0028)Lys;0.769,0.797,0.658,0.630,0.604,0.770,0.766,0.693,(-0.1820)+(0.0293)Ser+(-0.0071)Gln+(-0.0476)Val+(0.1820)Ile+(-0.0380)Leu+(0.0444)Phe;0.769,0.809,0.807,0.820,0.813,0.792,0.772,0.799,(6.6441)+(-0.0570)Asn+(0.0010)Gly+(-0.0073)Arg+(0.0060)Lys+(0.0074)Leu+(-0.1430)Trp;0.769,0.807,0.746,0.724,0.778,0.791,0.706,0.750,(0.5181)+(0.0073)Gly+(-0.0825)Cit+(-0.3103)Met+(-0.0124)Lys+(0.0561)Ile+(0.0878)Phe;0.769,0.807,0.782,0.767,0.773,0.850,0.790,0.795,(3.4659)+(0.0061)Gly+(-0.0094)Ala+(-0.0860)Cit+(-0.1747)Met+(-0.0080)Lys+(0

.0814)Ile;0.769,0.796,0.690,0
.680,0.616,0.788,0.797,0.720,(-1.7605)+(0.0183)Ser+(-0.0084)Pro+(-0.0
442)Val+(0.1921)Ile+(-0.0469)Leu+(0.0363)Phe;0.769,0.806,0.751,0.725,
0.772,0.820,0.727,0.761,(6.8801)+(-0.1105)His+(-0.0671)Cit+(0.0003)Ar
g+(-0.0217)Tyr+(0.0568)Orn+(-0.0006)Lys;0.769,0.804,0.764,0.768,0.686
,0.828,0.870,0.788,(0.4393)+(-0.0005)Gln+(-0.0128)Ala+(-0.0014)Orn+(0
.1687)Ile+(-0.0943)Leu+(0.0487)Phe;0.769,0.802,0.766,0.763,0.755,0.82
9,0.753,0.775,(6.8981)+(0.0038)Gly+(-0.1020)His+(-0.0042)Ala+(-0.0021
)Arg+(0.0120)Pro+(-0.0787)Met;0.769,0.801,0.741,0.736,0.750,0.801,0.6
89,0.744,(7.0489)+(0.0011)Gly+(-0.1278)His+(0.0211)Thr+(-0.0139)Arg+(
-0.0189)Tyr+(0.0025)Val;0.769,0.800,0.723,0.688,0.702,0.843,0.776,0.7
52,(-0.5496)+(0.0257)Ser+(-0.0177)Ala+(-0.1295)Cit+(0.0066)Pro+(0.031
5)Orn+(0.0518)Ile;0.769,0.794,0.737,0.713,0.733,0.800,0.758,0.751,(6.
1957)+(0.0032)Gly+(-0.1239)His+(-0.0063)Arg+(0.0051)Pro+(-0.0203)Val+
(0.0420)Leu;0.769,0.794,0.706,0.696,0.638,0.805,0.802,0.735,(-0.3989)
+(0.0275)Ser+(-0.0174)Thr+(-0.0043)Pro+(-0.0386)Val+(0.1904)Ile+(-0.0
457)Leu;0.769,0.802,0.750,0.743,0.759,0.812,0.704,0.755,(7.2105)+(-0.
0375)Asn+(0.0023)Gly+(-0.1229)His+(0.0209)Thr+(-0.0121)Arg+(0.0002)Va
l;0.769,0.801,0.738,0.715,0.753,0.810,0.717,0.749,(6.1145)+(0.0026)Gl
y+(-0.1235)His+(-0.0119)Arg+(0.0045)Pro+(-0.0032)Val+(0.0349)Orn;0.76
9,0.813,0.827,0.848,0.817,0.829,0.788,0.821,(4.8473)+(0.0049)Gln+(-0.
0038)Ala+(-0.0161)Arg+(0.0009)Tyr+(0.0038)Lys+(-0.1447)Trp;0.769,0.81
2,0.712,0.693,0.718,0.795,0.692,0.724,(-1.3177)+(0.0482)Ser+(-0.0111)
Arg+(0.0039)Pro+(-0.3159)Met+(-0.0099)Lys+(0.0679)Ile;0.769,0.802,0.7
51,0.749,0.751,0.808,0.719,0.757,(7.1145)+(-0.0467)Asn+(0.0015)Gly+(-
0.1204)His+(0.0195)Thr+(-0.0175)Tyr+(0.0038)Lys;0.769,0.809,0.760,0.7
53,0.788,0.851,0.658,0.762,(1.9583)+(0.0368)Ser+(-0.1439)Asn+(0.0037)
Gln+(-0.1130)Cit+(0.0513)Orn+(-0.0166)Lys;0.769,0.797,0.737,0.742,0.6

75,0.799,0.809,0.756,(4.1417)+(-0.0016)Gly+(-0.0236)Arg+(0.0012)Pro+(-0.0361)Tyr+(-0.0530)Val+(0.1616)Ile;0.769,0.798,0.693,0.663,0.646,0.803,0.794,0.727,(1.5073)+(0.0329)Ser+(-0.0051)Gly+(-0.0043)Gln+(-0.0534)Cit+(-0.0528)Val+(0.1548)Ile;0.769,0.806,0.751,0.736,0.763,0.815,0.721,0.759,(6.7726)+(-0.0200)Asn+(0.0025)Gly+(-0.1171)His+(-0.0083)Arg+(-0.0144)Tyr+(0.0397)Orn;0.769,0.804,0.762,0.778,0.787,0.827,0.618,0.753,(2.8879)+(0.0386)Ser+(-0.0849)Asn+(0.0152)Thr+(-0.0661)Cit+(-0.0020)Arg+(-0.2020)Met;0.769,0.800,0.698,0.673,0.665,0.818,0.745,0.725,(0.1702)+(0.0176)Ser+(-0.0964)Cit+(-0.0392)Val+(0.0289)Orn+(0.1752)Ile+(-0.0421)Leu;0.769,0.799,0.723,0.725,0.651,0.787,0.821,0.746,(3.1566)+(-0.0056)Gly+(0.0030)Thr+(-0.0547)Tyr+(-0.0530)Val+(0.0219)Orn+(0.1525)Ile;0.769,0.798,0.727,0.727,0.660,0.801,0.818,0.751,(3.9661)+(-0.0041)Gly+(0.0113)Thr+(-0.0447)Tyr+(-0.0506)Val+(-0.0132)Lys+(0.1606)Ile;0.769,0.793,0.740,0.742,0.683,0.811,0.802,0.760,(2.6882)+(0.0013)Gln+(-0.0308)Arg+(-0.0034)Pro+(-0.0433)Val+(0.1944)Ile+(-0.0414)Leu;0.769,0.810,0.776,0.777,0.707,0.832,0.878,0.798,(1.2756)+(-0.0052)Thr+(-0.0116)Ala+(-0.0099)Lys+(0.1692)Ile+(-0.0897)Leu+(0.0540)Phe;0.769,0.810,0.745,0.737,0.706,0.842,0.778,0.766,(0.1886)+(0.0427)Ser+(-0.1300)Asn+(-0.0099)Ala+(-0.0172)Arg+(0.0095)Orn+(0.0521)Ile;0.769,0.810,0.716,0.687,0.739,0.806,0.683,0.729,(0.4641)+(0.0447)Ser+(-0.1528)Asn+(-0.0103)Thr+(-0.1001)Cit+(0.0353)Orn+(0.0289)Ile;0.769,0.808,0.787,0.785,0.724,0.857,0.872,0.810,(3.8850)+(-0.0738)Asn+(0.0011)Thr+(-0.0109)Ala+(0.0046)Pro+(0.1575)Ile+(-0.0808)Leu;0.769,0.803,0.737,0.708,0.765,0.822,0.693,0.747,(6.0692)+(0.0039)Gly+(-0.1188)His+(-0.0680)Cit+(-0.0029)Arg+(-0.0013)Val+(0.0521)Orn;0.769,0.799,0.719,0.692,0.681,0.808,0.806,0.747,(1.1680)+(-0.0083)Thr+(-0.0929)Cit+(-0.0538)Val+(0.0392)Orn+(0.1408)Ile+(0.0263)Phe;0.769,0.812,0.793,0.812,0.795,0.786,0.741,0.784,(6.1674)+(-0.0149)Arg+(0.0078)Pro+(-0.0113)Tyr+(-0.0034

)Val+(0.0062)Lys+(-0.1412)Trp;0.769,0.800,0.797,0.778,0.783,0.862,0.832,0.813,(2.5022)+(-0.1056)Asn+(0.0055)Gln+(-0.0128)Ala+(-0.1212)Cit+(0.0401)Orn+(0.0463)Ile;0.769,0.798,0.728,0.709,0.683,0.812,0.811,0.754,(3.4237)+(-0.0016)Gly+(-0.0289)Arg+(-0.0571)Val+(0.0312)Orn+(-0.0105)Lys+(0.1642)Ile;0.769,0.796,0.763,0.746,0.748,0.816,0.802,0.778,(6.9968)+(-0.0103)Asn+(-0.1145)His+(-0.0054)Ala+(0.0090)Pro+(-0.0128)Tyr+(0.0140)Leu;0.769,0.808,0.828,0.839,0.829,0.823,0.799,0.823,(7.2690)+(-0.0432)Asn+(-0.0027)Ala+(-0.0026)Arg+(0.0088)Tyr+(0.0010)Val+(-0.1312)Trp;0.769,0.803,0.766,0.769,0.690,0.828,0.873,0.790,(0.5177)+(-0.0008)Gly+(-0.0003)Gln+(-0.0128)Ala+(0.1680)Ile+(-0.0942)Leu+(0.0478)Phe;0.769,0.806,0.758,0.729,0.770,0.818,0.769,0.771,(6.2547)+(0.0072)Asn+(-0.1257)His+(-0.1134)Met+(0.0314)Orn+(0.0028)Lys+(0.0133)Leu;0.769,0.803,0.758,0.781,0.745,0.799,0.692,0.755,(0.5110)+(0.0458)Ser+(-0.1905)Asn+(0.0085)Thr+(-0.0213)Arg+(-0.0210)Val+(0.1039)Phe;0.769,0.798,0.732,0.713,0.687,0.824,0.812,0.759,(3.1839)+(0.0015)Gly+(0.0006)Gln+(-0.0660)Cit+(-0.0487)Val+(-0.0156)Lys+(0.1585)Ile;0.769,0.809,0.753,0.754,0.724,0.814,0.766,0.764,(2.8685)+(0.0116)Thr+(-0.0170)Tyr+(-0.2570)Met+(0.0056)Orn+(0.1636)Ile+(-0.0784)Leu;0.769,0.809,0.754,0.736,0.760,0.808,0.751,0.764,(6.3107)+(-0.1165)His+(0.0071)Pro+(-0.0134)Tyr+(-0.1019)Met+(0.0324)Orn+(0.0062)Lys;0.769,0.804,0.757,0.727,0.770,0.816,0.762,0.769,(6.4069)+(0.0097)Asn+(-0.1236)His+(-0.0029)Arg+(-0.1043)Met+(0.0334)Orn+(0.0136)Leu;0.769,0.799,0.710,0.706,0.645,0.787,0.798,0.734,(3.3801)+(-0.0030)Gln+(-0.0020)Pro+(-0.0452)Tyr+(-0.0530)Val+(0.0240)Orn+(0.1571)Ile;0.769,0.808,0.741,0.748,0.737,0.779,0.704,0.742,(0.4181)+(0.0493)Ser+(-0.1969)Asn+(-0.0630)Cit+(0.0077)Pro+(-0.0200)Val+(0.1010)Phe;0.769,0.807,0.792,0.792,0.755,0.860,0.821,0.807,(2.5849)+(-0.1076)Asn+(0.0070)Gln+(-0.0851)Cit+(-0.0065)Lys+(0.1519)Ile+(-0.0797)Leu;0.769,0.816,0.742,0.759,0.725,0.784,0.703,0.743,(

-3.2718)+(0.0429)Ser+(-0.0037)Ala+(-0.0149)Tyr+(-0.3317)Met+(0.0075)Orn+(0.1101)Phe;0.769,0.811,0.806,0.820,0.808,0.814,0.759,0.800,(6.1481)+(-0.0042)Ala+(-0.0154)Arg+(-0.0021)Tyr+(0.0277)Orn+(0.0032)Lys+(-0.1380)Trp;0.769,0.805,0.773,0.781,0.788,0.825,0.684,0.769,(2.9274)+(0.0451)Ser+(-0.0826)Asn+(-0.0051)Gly+(0.0153)Thr+(-0.0607)Cit+(-0.2099)Met;0.769,0.797,0.766,0.744,0.753,0.820,0.810,0.782,(6.8676)+(-0.1191)His+(-0.0031)Ala+(-0.0029)Arg+(-0.0187)Val+(0.0028)Lys+(0.0433)Leu;0.769,0.814,0.730,0.750,0.736,0.770,0.639,0.724,(-3.1969)+(0.0465)Ser+(-0.0194)Arg+(-0.0203)Tyr+(-0.3320)Met+(0.0101)Orn+(0.1139)Phe;0.769,0.805,0.763,0.756,0.763,0.793,0.762,0.768,(0.2036)+(0.0285)Thr+(-0.0083)Ala+(-0.0195)Arg+(-0.3617)Met+(0.0527)Ile+(0.0797)Phe;0.769,0.803,0.756,0.749,0.785,0.828,0.663,0.756,(1.4358)+(0.0411)Ser+(-0.0060)Gly+(0.0062)Thr+(-0.0923)Cit+(-0.2736)Met+(0.0384)Orn;0.769,0.801,0.739,0.731,0.750,0.804,0.690,0.744,(7.1709)+(-0.1180)His+(0.0207)Thr+(-0.0242)Cit+(-0.0107)Arg+(0.0062)Pro+(-0.0255)Tyr;0.769,0.802,0.776,0.742,0.770,0.864,0.814,0.797,(2.6894)+(0.0036)Gln+(-0.0137)Ala+(-0.1339)Cit+(0.0507)Orn+(-0.0248)Lys+(0.0642)Ile;0.769,0.801,0.785,0.794,0.779,0.782,0.777,0.783,(1.1505)+(0.0034)Gly+(-0.0039)Arg+(-0.0403)Val+(-0.3289)Met+(0.0570)Leu+(0.1112)Phe;0.769,0.797,0.766,0.745,0.754,0.821,0.810,0.782,(6.8931)+(-0.0109)Asn+(-0.1168)His+(-0.0058)Ala+(-0.0020)Arg+(0.0083)Pro+(0.0131)Leu;0.769,0.813,0.768,0.762,0.787,0.835,0.699,0.771,(7.6271)+(-0.1092)His+(0.0307)Thr+(-0.0278)Cit+(-0.0068)Arg+(0.0033)Tyr+(-0.1466)Met;0.769,0.804,0.773,0.764,0.745,0.846,0.802,0.789,(1.9636)+(-0.0965)Asn+(0.0074)Gly+(-0.0126)Ala+(-0.0980)Cit+(0.0542)Ile+(0.0476)Phe;0.769,0.802,0.747,0.727,0.757,0.802,0.744,0.757,(6.1917)+(0.0048)Gly+(-0.1195)His+(0.0000)Arg+(0.0068)Pro+(-0.1233)Met+(0.0178)Leu;0.769,0.795,0.733,0.727,0.688,0.813,0.784,0.753,(3.2186)+(0.0047)Thr+(-0.0460)Cit+(-0.0237)Arg+(-0.0427)Val+(0.1873)Ile+(-0.03

79)Leu;0.769,0.804,0.768,0.760,0.789,0.844,0.689,0.771,(2.0450)+(0.04
03)Ser+(-0.0062)Gly+(-0.0910)Cit+(-0.0062)Val+(-0.2320)Met+(0.0470)Or
n;0.769,0.803,0.764,0.763,0.748,0.846,0.740,0.775,(2.9083)+(0.0401)Se
r+(-0.1219)Asn+(-0.0006)Thr+(-0.0102)Ala+(-0.0794)Cit+(0.0147)Pro;0.7
69,0.802,0.748,0.737,0.761,0.816,0.699,0.753,(7.0469)+(-0.0460)Asn+(0
.0035)Gly+(-0.1182)His+(0.0189)Thr+(-0.0378)Cit+(0.0014)Val;0.769,0.8
02,0.754,0.765,0.715,0.823,0.760,0.766,(2.6452)+(0.0038)Gln+(-0.0829)
Cit+(-0.0474)Tyr+(-0.0089)Lys+(0.1619)Ile+(-0.0803)Leu;0.769,0.801,0.
793,0.790,0.768,0.808,0.845,0.803,(-1.1241)+(0.0043)Gln+(-0.0081)Ala+
(-0.3200)Met+(-0.0036)Orn+(0.0553)Ile+(0.0700)Phe;0.769,0.801,0.754,0
.737,0.766,0.811,0.733,0.762,(7.2931)+(-0.0455)Asn+(-0.1149)His+(0.01
91)Thr+(-0.0318)Cit+(0.0044)Pro+(-0.0014)Val;0.768,0.805,0.747,0.750,
0.765,0.812,0.655,0.746,(2.1330)+(0.0459)Ser+(-0.0730)Asn+(-0.0689)Ci
t+(0.0114)Pro+(-0.2141)Met+(-0.0008)Lys;0.768,0.802,0.738,0.708,0.768
,0.819,0.698,0.748,(6.5024)+(-0.1227)His+(0.0126)Thr+(-0.0578)Cit+(-0
.0085)Arg+(-0.0028)Val+(0.0471)Orn;0.768,0.803,0.767,0.743,0.760,0.85
1,0.786,0.785,(4.4094)+(-0.0116)Ala+(-0.1233)Cit+(-0.0273)Tyr+(0.0553
)Orn+(-0.0197)Lys+(0.0621)Ile;0.768,0.797,0.732,0.716,0.688,0.824,0.7
96,0.756,(3.2764)+(0.0019)Gly+(-0.0688)Cit+(-0.0394)Val+(-0.0124)Lys+
(0.1803)Ile+(-0.0316)Leu;0.768,0.794,0.743,0.726,0.730,0.793,0.783,0.
758,(6.5908)+(-0.1201)His+(0.0059)Pro+(-0.0163)Tyr+(-0.0198)Val+(0.00
21)Lys+(0.0406)Leu;0.768,0.815,0.732,0.727,0.715,0.825,0.712,0.745,(0
.7617)+(0.0413)Ser+(0.0126)Pro+(-0.0408)Val+(-0.3237)Met+(-0.0024)Lys
+(0.0697)Leu;0.768,0.807,0.728,0.712,0.662,0.810,0.847,0.758,(1.6278)
+(0.0045)Thr+(-0.0059)Pro+(-0.0547)Val+(-0.0197)Lys+(0.1630)Ile+(0.03
67)Phe;0.768,0.805,0.735,0.756,0.676,0.755,0.786,0.743,(1.3482)+(-0.0
025)Gly+(-0.0770)Tyr+(-0.0087)Lys+(0.1598)Ile+(-0.0950)Leu+(0.0855)Ph
e;0.768,0.804,0.746,0.728,0.752,0.799,0.742,0.755,(5.9104)+(0.0048)Gl

y+(-0.1235)His+(0.0070)Pro+(-0.1428)Met+(0.0069)Lys+(0.0154)Leu;0.768,0.792,0.723,0.714,0.679,0.802,0.780,0.744,(2.8408)+(-0.0001)Gln+(-0.0352)Arg+(-0.0472)Val+(0.0247)Orn+(0.1880)Ile+(-0.0370)Leu;0.768,0.814,0.739,0.763,0.742,0.770,0.644,0.730,(-3.0039)+(0.0467)Ser+(-0.0179)Arg+(-0.0182)Tyr+(-0.3234)Met+(-0.0050)Leu+(0.1211)Phe;0.768,0.803,0.767,0.770,0.689,0.831,0.874,0.791,(0.4287)+(-0.0009)Gly+(-0.0128)Ala+(-0.0015)Orn+(0.1685)Ile+(-0.0943)Leu+(0.0477)Phe;0.768,0.801,0.725,0.713,0.658,0.795,0.846,0.753,(1.6129)+(-0.0013)Gly+(-0.0451)Val+(-0.0156)Lys+(0.1763)Ile+(-0.0320)Leu+(0.0383)Phe;0.768,0.806,0.765,0.775,0.696,0.832,0.833,0.784,(3.42
96)+(-0.0105)Ala+(0.0055)Pro+(-0.0378)Tyr+(-0.0052)Lys+(0.1633)Ile+(-0.0793)Leu;0.768,0.797,0.718,0.726,0.648,0.787,0.792,0.738,(2.4916)+(-0.0028)Thr+(-0.0472)Tyr+(-0.0401)Val+(0.0177)Orn+(0.1787)Ile+(-0.0378)Leu;0.768,0.806,0.766,0.747,0.773,0.824,0.758,0.776,(6.8039)+(-0.0063)Asn+(-0.1135)His+(-0.0071)Tyr+(-0.0006)Val+(-0.0594)Met+(0.0392)Orn;0.768,0.805,0.793,0.769,0.779,0.851,0.847,0.811,(4.0489)+(-0.0098)Ala+(-0.0893)Cit+(0.0178)Arg+(-0.1703)Met+(-0.0119)Lys+(0.0807)Ile;0.768,0.803,0.746,0.730,0.754,0.803,0.727,0.754,(6.7257)+(-0.1151)His+(-0.0100)Arg+(0.0060)Pro+(-0.0228)Tyr+(-0.0026)Val+(0.0394)Orn;0.768,0.803,0.733,0.716,0.667,0.809,0.857,0.762,(1.8748)+(-0.0010)Gly+(-0.0051)Pro+(-0.0542)Val+(-0.0175)Lys+(0.1613)Ile+(0.0361)Phe;0.768,0.801,0.759,0.750,0.759,0.824,0.734,0.767,(7.1543)+(-0.1200)His+(0.0198)Thr+(-0.0036)Ala+(-0.0372)Cit+(-0.0155)Tyr+(0.0052)Val;0.768,0.798,0.734,0.720,0.746,0.800,0.696,0.740,(6.5006)+(0.0021)Gly+(-0.1301)His+(0.0167)Thr+(-0.0150)Arg+(0.0043)Pro+(-0.0005)Val;0.768,0.809,0.776,0.768,0.759,0.837,0.791,0.789,(4.0933)+(-0.0064)Asn+(-0.0655)Cit+(-0.2053)Met+(0.0020)Lys+(0.1697)Ile+(-0.0813)Leu;0.768,0.809,0.783,0.796,0.797,0.776,0.722,0.773,(6.3885)+(-0.0025)Gly+(0.0183)Thr+(-0.0181)Arg+(-0

.0170)Tyr+(0.0095)Leu+(-0.1558)Trp;0.768,0.808,0.704,0.677,0.666,0.783,0.795,0.731,(-1.7461)+(0.0422)Ser+(-0.0090)Gly+(-0.0263)Lys+(0.1448)Ile+(-0.0833)Leu+(0.0484)Phe;0.768,0.807,0.777,0.784,0.718,0.834,0.843,0.795,(1.5256)+(0.0008)Thr+(-0.0113)Ala+(-0.0294)Arg+(0.1789)Ile+(-0.1005)Leu+(0.0599)Phe;0.768,0.805,0.747,0.750,0.765,0.811,0.656,0.746,(2.0893)+(0.0460)Ser+(-0.0737)Asn+(-0.0690)Cit+(0.0000)Arg+(0.0114)Pro+(-0.2170)Met;0.768,0.807,0.748,0.745,0.690,0.832,0.818,0.771,(0.9607)+(0.0483)Ser+(-0.1229)Asn+(-0.0057)Gly+(-0.0083)Ala+(-0.0366)Tyr+(0.0564)Ile;0.768,0.795,0.756,0.748,0.742,0.821,0.761,0.768,(6.5574)+(0.0030)Gly+(-0.1148)His+(-0.0051)Ala+(0.0100)Pro+(-0.0094)Tyr+(0.0027)Val;0.768,0.810,0.769,0.767,0.740,0.816,0.802,0.781,(2.5969)+(-0.0896)Asn+(-0.0723)Cit+(-0.0084)Arg+(0.1539)Ile+(-0.0952)Leu+(0.0688)Phe;0.768,0.794,0.770,0.746,0.764,0.826,0.803,0.785,(7.1761)+(-0.0103)Asn+(-0.1087)His+(-0.0066)Ala+(-0.0355)Cit+(0.0092)Pro+(0.0146)Leu;0.768,0.804,0.760,0.756,0.734,0.819,0.785,0.773,(3.0302)+(-0.0193)Asn+(0.0014)Gly+(-0.2283)Met+(0.0106)Orn+(0.1629)Ile+(-0.0808)Leu;0.768,0.810,0.771,0.773,0.699,0.833,0.872,0.794,(1.2091)+(-0.0124)Ala+(0.0021)Pro+(-0.0122)Lys+(0.1635)Ile+(-0.0870)Leu+(0.0525)Phe;0.768,0.804,0.762,0.766,0.685,0.827,0.868,0.786,(0.2838)+(-0.0133)Ala+(0.0021)Pro+(-0.0029)Orn+(0.1665)Ile+(-0.0936)Leu+(0.0472)Phe;0.768,0.803,0.748,0.727,0.758,0.802,0.744,0.758,(6.1652)+(0.0049)Gly+(-0.1198)His+(0.0067)Pro+(0.0018)Tyr+(-0.1258)Met+(0.0178)Leu;0.768,0.803,0.729,0.696,0.759,0.816,0.690,0.740,(5.7794)+(0.0043)Gly+(-0.1222)His+(-0.0668)Cit+(-0.0035)Arg+(0.0031)Pro+(0.0486)Orn;0.768,0.799,0.771,0.792,0.715,0.813,0.802,0.781,(2.9155)+(-0.0996)Asn+(0.0046)Gln+(-0.0015)Pro+(-0.0444)Tyr+(0.1518)Ile+(-0.0809)Leu;0.768,0.811,0.792,0.802,0.797,0.778,0.765,0.785,(5.7029)+(-0.0016)Gly+(-0.0158)Tyr+(0.0208)Orn+(-0.0028)Lys+(0.0073)Leu+(-0.1454)Trp;0.768,0.809,0.753,0.756,0.752,0.828,0.694,0.

757,(3.9994)+(0.0338)Thr+(-0.0149)Arg+(0.0100)Pro+(-0.0477)Val+(-0.3487)Met+(0.0757)Leu;0.768,0.807,0.759,0.746,0.723,0.852,0.802,0.781,(3.1158)+(0.0479)Ser+(-0.1908)Asn+(-0.0063)Gly+(-0.0509)Val+(0.0351)Orn+(0.0699)Leu;0.768,0.802,0.767,0.762,0.748,0.790,0.801,0.776,(-1.3933)+(0.0029)Gln+(0.0200)Thr+(-0.0084)Ala+(-0.3823)Met+(0.0529)Ile+(0.0757)Phe;0.768,0.799,0.734,0.706,0.718,0.847,0.760,0.758,(-0.3006)+(0.0275)Ser+(-0.0154)Ala+(-0.1189)Cit+(-0.0116)Arg+(0.0340)Orn+(0.0556)Ile;0.768,0.800,0.774,0.780,0.759,0.765,0.797,0.775,(1.5392)+(0.0103)Pro+(-0.0414)Val+(-0.3559)Met+(0.0014)Lys+(0.0532)Leu+(0.1050)Phe;0.768,0.799,0.727,0.729,0.654,0.791,0.824,0.750,(3.1508)+(-0.0049)Gly+(-0.0019)Pro+(-0.0509)Tyr+(-0.0528)Val+(0.0236)Orn+(0.1541)Ile;0.768,0.800,0.756,0.757,0.753,0.822,0.712,0.761,(7.2989)+(0.0009)Gly+(-0.1213)His+(0.0214)Thr+(-0.0021)Ala+(-0.0136)Arg+(-0.0119)Tyr;0.768,0.798,0.765,0.745,0.750,0.819,0.811,0.781,(6.8378)+(-0.1192)His+(-0.0030)Ala+(-0.0045)Tyr+(-0.0182)Val+(0.0024)Lys+(0.0434)Leu;0.768,0.809,0.755,0.738,0.764,0.822,0.733,0.764,(6.1526)+(0.0027)Gly+(-0.1211)His+(-0.0034)Tyr+(-0.0929)Met+(0.0341)Orn+(0.0060)Lys;0.768,0.803,0.753,0.766,0.710,0.795,0.781,0.763,(4.0189)+(-0.0803)Asn+(-0.0018)Pro+(-0.0471)Tyr+(0.0198)Orn+(0.1504)Ile+(-0.0817)Leu;0.768,0.799,0.735,0.706,0.753,0.802,0.725,0.746,(6.6371)+(-0.1354)His+(0.0199)Thr+(-0.0302)Cit+(-0.0055)Arg+(-0.0048)Lys+(0.0156)Leu;0.768,0.792,0.732,0.721,0.684,0.815,0.800,0.755,(2.8631)+(0.0008)Gly+(0.0004)Gln+(-0.0449)Cit+(-0.0217)Arg+(-0.0539)Val+(0.1589)Ile;0.768,0.809,0.792,0.811,0.805,0.789,0.718,0.780,(6.6944)+(-0.0027)Gly+(0.0181)Thr+(-0.0184)Arg+(-0.0132)Tyr+(0.0013)Lys+(-0.1494)Trp;0.768,0.804,0.763,0.746,0.762,0.821,0.766,0.774,(6.3420)+(0.0045)Gly+(-0.1241)His+(-0.0027)Ala+(-0.1037)Met+(0.0066)Lys+(0.0207)Leu;0.768,0.804,0.724,0.704,0.661,0.800,0.852,0.754,(1.9005)+(-0.0019)Gly+(0.0038)Thr+(-0.0546)Val+(-0.0194)Lys+(0.1561)Ile+(0

.0323)Phe;0.768,0.802,0.754,0.763,0.763,0.823,0.663,0.753,(2.9302)+(0.0444)Ser+(-0.0810)Asn+(-0.0625)Cit+(0.0136)Pro+(-0.0071)Val+(-0.1916)Met;0.768,0.794,0.755,0.734,0.757,0.826,0.755,0.768,(6.4715)+(0.0050)Gly+(-0.1206)His+(-0.0045)Ala+(-0.0397)Cit+(0.0009)Lys+(0.0203)Leu;0.768,0.800,0.751,0.763,0.722,0.801,0.747,0.758,(4.5568)+(-0.0564)Asn+(-0.0232)Arg+(-0.0460)Tyr+(0.0270)Orn+(0.1570)Ile+(-0.0871)Leu;0.768,0.793,0.686,0.666,0.632,0.789,0.775,0.716,(0.7732)+(0.0329)Ser+(-0.0043)Gln+(-0.0151)Thr+(-0.0414)Val+(0.1848)Ile+(-0.0385)Leu;0.768,0.792,0.731,0.706,0.734,0.798,0.743,0.745,(6.1018)+(0.0039)Gly+(-0.1221)His+(-0.0291)Cit+(0.0048)Pro+(-0.0183)Val+(0.0401)Leu;0.768,0.805,0.763,0.747,0.753,0.845,0.766,0.778,(4.1085)+(-0.0871)Asn+(-0.1023)Cit+(-0.0060)Pro+(0.0430)Orn+(0.1523)Ile+(-0.0854)Leu;0.768,0.802,0.746,0.715,0.756,0.804,0.763,0.759,(6.2254)+(-0.0234)Asn+(-0.1282)His+(0.0023)Pro+(0.0302)Orn+(-0.0007)Lys+(0.0067)Leu;0.768,0.802,0.753,0.753,0.757,0.805,0.707,0.756,(7.6129)+(-0.0375)Asn+(-0.1203)His+(0.0234)Thr+(-0.0144)Arg+(-0.0209)Tyr+(0.0061)Lys;0.768,0.801,0.784,0.782,0.759,0.807,0.826,0.793,(-1.3350)+(0.0025)Gly+(0.0035)Gln+(-0.0083)Ala+(-0.3262)Met+(0.0555)Ile+(0.0720)Phe;0.768,0.812,0.759,0.754,0.731,0.865,0.753,0.776,(0.7858)+(0.0352)Ser+(-0.0030)Ala+(-0.0420)Val+(-0.2806)Met+(0.0272)Orn+(0.0746)Leu;0.768,0.812,0.814,0.838,0.813,0.805,0.761,0.804,(4.7674)+(0.0047)Gln+(-0.0174)Arg+(-0.0066)Tyr+(-0.0011)Val+(0.0035)Lys+(-0.1470)Trp;0.768,0.808,0.811,0.819,0.814,0.800,0.789,0.806,(6.3629)+(-0.0024)Ala+(-0.0041)Arg+(-0.1103)Met+(0.0066)Lys+(0.0152)Leu+(-0.1400)Trp;0.768,0.805,0.763,0.760,0.747,0.847,0.743,0.774,(2.7903)+(0.0401)Ser+(-0.1234)Asn+(-0.0104)Ala+(-0.0806)Cit+(0.0143)Pro+(0.0026)Leu;0.768,0.807,0.747,0.776,0.701,0.794,0.734,0.751,(-0.3252)+(0.0435)Ser+(-0.1626)Asn+(-0.0060)Ala+(-0.0545)Tyr+(0.0159)Orn+(0.0893)Phe;0.768,0.798,0.721,0.726,0.655,0.800,0.790,0.743,(3.2584)+(0.0051)T

hr+(-0.0411)Tyr+(-0.0413)Val+(-0.0100)Lys+(0.1785)Ile+(-0.0289)Leu;0.768,0.796,0.726,0.703,0.693,0.819,0.792,0.752,(2.3593)+(-0.0087)Thr+(-0.0937)Cit+(-0.0391)Val+(0.0407)Orn+(0.1758)Ile+(-0.0425)Leu;0.768,0.793,0.736,0.735,0.681,0.808,0.802,0.756,(3.1630)+(0.0001)Gly+(-0.0285)Arg+(-0.0030)Pro+(-0.0440)Val+(0.1936)Ile+(-0.0393)Leu;0.768,0.805,0.762,0.778,0.785,0.826,0.623,0.753,(2.8416)+(0.0386)Ser+(-0.0860)Asn+(0.0148)Thr+(-0.0675)Cit+(0.0006)Tyr+(-0.2036)Met;0.768,0.806,0.775,0.780,0.697,0.830,0.881,0.797,(0.4708)+(0.0008)Gln+(-0.0107)Thr+(-0.0119)Ala+(0.1735)Ile+(-0.0962)Leu+(0.0494)Phe;0.768,0.793,0.737,0.738,0.680,0.808,0.801,0.757,(2.7654)+(-0.0005)Gly+(0.0012)Gln+(-0.0314)Arg+(-0.0442)Val+(0.1890)Ile+(-0.0391)Leu;0.768,0.810,0.820,0.824,0.818,0.815,0.814,0.818,(6.8563)+(-0.0422)Asn+(-0.0038)Ala+(-0.0027)Arg+(0.0056)Tyr+(0.0140)Leu+(-0.1393)Trp;0.768,0.810,0.828,0.836,0.832,0.824,0.799,0.823,(6.7693)+(-0.0022)Ala+(-0.0023)Arg+(0.0239)Tyr+(0.0024)Val+(-0.1115)Met+(-0.1343)Trp;0.768,0.807,0.770,0.750,0.776,0.832,0.764,0.780,(6.8028)+(-0.1160)His+(-0.0025)Ala+(-0.0088)Arg+(-0.0727)Met+(0.0375)Orn+(0.0072)Lys;0.768,0.807,0.741,0.732,0.684,0.835,0.817,0.767,(-1.2249)+(0.0447)Ser+(-0.1686)Asn+(-0.0110)Ala+(0.0016)Orn+(0.0420)Ile+(0.0461)Phe;0.768,0.805,0.778,0.801,0.736,0.821,0.773,0.783,(-0.1690)+(0.0435)Ser+(-0.1926)Asn+(0.0018)Gln+(-0.0044)Ala+(-0.0173)Val+(0.0994)Phe;0.768,0.811,0.717,0.724,0.657,0.786,0.772,0.735,(0.7540)+(0.0321)Ser+(-0.0108)Gly+(-0.0648)Tyr+(0.0085)Orn+(0.1520)Ile+(-0.0822)Leu;0.768,0.809,0.719,0.704,0.720,0.803,0.700,0.732,(-1.5298)+(0.0465)Ser+(0.0010)Gln+(-0.0109)Arg+(-0.3088)Met+(-0.0104)Lys+(0.0723)Ile;0.768,0.810,0.742,0.777,0.717,0.771,0.682,0.737,(-0.1302)+(0.0462)Ser+(-0.1545)Asn+(-0.0572)Tyr+(-0.0076)Lys+(-0.0119)Leu+(0.1065)Phe;0.768,0.802,0.789,0.791,0.734,0.854,0.849,0.807,(4.3396)+(-0.0499)Asn+(-0.0104)Ala+(-0.0176)Arg+(0.0046)Pro+(0.1650)Ile+(-0.0845)Leu;0.768,

0.804,0.776,0.795,0.774,0.792,0.718,0.770,(4.0431)+(-0.1142)Asn+(-0.0928)Cit+(-0.0560)Tyr+(-0.0190)Val+(0.0626)Orn+(0.1024)Phe;0.768,0.811,0.722,0.691,0.730,0.817,0.719,0.739,(1.2060)+(0.0489)Ser+(-0.1169)Asn+(-0.0025)Gly+(-0.0750)Cit+(-0.0193)Lys+(0.0515)Ile;0.768,0.817,0.766,0.760,0.748,0.851,0.760,0.780,(2.0434)+(0.0477)Ser+(-0.1082)Asn+(0.0207)Tyr+(-0.0469)Val+(-0.2270)Met+(0.0832)Leu;0.768,0.811,0.726,0.728,0.662,0.822,0.785,0.749,(0.7506)+(0.0409)Ser+(-0.1305)Asn+(-0.0103)Ala+(0.0088)Pro+(-0.0370)Tyr+(0.0515)Ile;0.768,0.801,0.750,0.743,0.763,0.818,0.690,0.754,(7.3227)+(-0.0430)Asn+(0.0032)Gly+(-0.1160)His+(0.0208)Thr+(-0.0319)Cit+(-0.0069)Arg;0.768,0.805,0.755,0.726,0.770,0.813,0.759,0.767,(6.3813)+(-0.1186)His+(-0.0029)Arg+(0.0051)Pro+(-0.1122)Met+(0.0314)Orn+(0.0108)Leu;0.768,0.804,0.741,0.717,0.756,0.809,0.723,0.751,(6.2332)+(-0.0257)Asn+(0.0034)Gly+(-0.1223)His+(-0.0093)Arg+(0.0040)Pro+(0.0331)Orn;0.768,0.795,0.754,0.742,0.740,0.820,0.768,0.768,(6.1645)+(0.0030)Gly+(-0.1208)His+(-0.0056)Ala+(0.0094)Pro+(0.0013)Val+(0.0041)Lys;0.768,0.810,0.721,0.699,0.751,0.787,0.668,0.726,(-0.2444)+(0.0457)Ser+(-0.1877)Asn+(-0.0011)Gly+(-0.1023)Cit+(0.0330)Orn+(0.0521)Phe;0.768,0.800,0.712,0.738,0.652,0.743,0.747,0.720,(0.3807)+(-0.0006)Gln+(-0.0812)Tyr+(0.

0030)Orn+(0.1600)Ile+(-0.0996)Leu+(0.0824)Phe;0.768,0.794,0.744,0.723,0.740,0.806,0.761,0.757,(6.2985)+(0.0032)Gly+(-0.1260)His+(-0.0056)Arg+(-0.0189)Val+(0.0022)Lys+(0.0419)Leu;0.768,0.799,0.728,0.707,0.697,0.824,0.778,0.752,(2.7612)+(-0.0704)Cit+(-0.0233)Arg+(-0.0043)Pro+(-0.0554)Val+(0.0432)Orn+(0.1581)Ile;0.768,0.804,0.748,0.731,0.757,0.803,0.735,0.757,(6.8619)+(-0.0162)Asn+(-0.1147)His+(-0.0079)Arg+(0.0055)Pro+(-0.0239)Tyr+(0.0382)Orn;0.768,0.803,0.761,0.763,0.685,0.824,0.867,0.785,(0.5034)+(-0.0007)Gln+(-0.0132)Ala+(0.0021)Pro+(0.1654)Ile+(-0.0934)Leu+(0.0473)Phe;0.768,0.798,0.757,0.755,0.756,0.817,0.723,0.7

63,(7.3071)+(-0.1249)His+(0.0220)Thr+(-0.0026)Ala+(-0.0129)Arg+(-0.0160)Tyr+(0.0035)Val;0.768,0.806,0.749,0.727,0.754,0.805,0.756,0.760,(6.6024)+(-0.0198)Asn+(-0.1255)His+(-0.0232)Tyr+(0.0352)Orn+(0.0015)Lys+(0.0097)Leu;0.768,0.804,0.749,0.762,0.731,0.795,0.718,0.752,(0.0794)+(0.0441)Ser+(-0.2069)Asn+(-0.0004)Thr+(-0.0231)Val+(0.0253)Orn+(0.0955)Phe;0.768,0.800,0.743,0.721,0.757,0.810,0.719,0.752,(6.1731)+(0.0026)Gly+(-0.1267)His+(-0.0132)Arg+(-0.0026)Val+(0.0358)Orn+(0.0040)Lys;0.768,0.798,0.704,0.701,0.641,0.783,0.791,0.729,(3.4087)+(-0.0032)Gln+(0.0016)Thr+(-0.0476)Tyr+(-0.0530)Val+(0.0227)Orn+(0.1552)Ile;0.768,0.803,0.746,0.745,0.692,0.847,0.787,0.768,(3.0086)+(0.0428)Ser+(-0.1716)Asn+(-0.0069)Ala+(0.0138)Pro+(-0.0436)Val+(0.0647)Leu;0.768,0.808,0.825,0.838,0.825,0.815,0.798,0.819,(7.1282)+(-0.0528)Asn+(-0.0028)Ala+(-0.0072)Arg+(0.0060)Tyr+(0.0087)Lys+(-0.1360)Trp;0.768,0.807,0.817,0.833,0.818,0.815,0.774,0.810,(6.8320)+(0.0005)Gly+(-0.0017)Ala+(-0.0015)Arg+(0.0030)Val+(-0.0804)Met+(-0.1297)Trp;0.768,0.796,0.764,0.745,0.755,0.809,0.803,0.778,(7.3477)+(-0.0322)Asn+(-0.1112)His+(0.0015)Arg+(-0.0046)Tyr+(-0.0224)Val+(0.0477)Leu;0.768,0.811,0.790,0.803,0.794,0.778,0.755,0.782,(6.0912)+(-0.0005)Gly+(-0.0109)Arg+(0.0061)Pro+(-0.0122)Tyr+(0.0075)Leu+(-0.1466)Trp;0.768,0.808,0.756,0.753,0.730,0.817,0.774,0.769,(2.6771)+(0.0003)Gly+(0.0119)Thr+(-0.0000)Pro+(-0.2844)Met+(0.1649)Ile+(-0.0790)Leu;0.768,0.803,0.738,0.717,0.749,0.797,0.731,0.748,(6.5039)+(-0.1245)His+(-0.0082)Arg+(0.0044)Pro+(-0.0267)Tyr+(0.0356)Orn+(0.0078)Leu;0.768,0.801,0.734,0.728,0.740,0.793,0.693,0.738,(6.9262)+(-0.1255)His+(0.0199)Thr+(-0.0170)Arg+(0.0062)Pro+(-0.0286)Tyr+(0.0048)Lys;0.768,0.800,0.751,0.716,0.777,0.820,0.740,0.763,(6.6729)+(-0.0288)Asn+(-0.1121)His+(-0.0650)Cit+(0.0009)Arg+(0.0026)Pro+(0.0500)Orn;0.768,0.810,0.800,0.817,0.806,0.798,0.743,0.791,(6.3772)+(-0.0014)Gly+(-0.0144)Arg+(-0.0086)Tyr+(-0.0034)Val+(0.0299)Orn+(-0

.1342)Trp;0.768,0.807,0.766,0.765,0.781,0.792,0.716,0.764,(1.1789)+(0.0300)Thr+(-0.0096)Ala+(-0.0850)Cit+(0.0128)Pro+(-0.3508)Met+(0.1035)Phe;0.768,0.805,0.769,0.789,0.732,0.819,0.756,0.774,(0.3218)+(0.0436)Ser+(-0.1913)Asn+(0.0045)Thr+(-0.0045)Ala+(-0.0178)Val+(0.1014)Phe;0.768,0.808,0.819,0.833,0.823,0.811,0.779,0.812,(7.1471)+(-0.0495)Asn+(0.0008)Gly+(-0.0034)Arg+(0.0048)Tyr+(-0.0005)Val+(-0.1313)Trp;0.768,0.801,0.720,0.719,0.658,0.799,0.792,0.742,(3.1063)+(-0.0418)Tyr+(-0.0416)Val+(0.0223)Orn+(-0.0108)Lys+(0.1759)Ile+(-0.0293)Leu;0.768,0.805,0.725,0.748,0.669,0.753,0.761,0.733,(0.7199)+(0.0007)Gln+(-0.0757)Tyr+(-0.0105)Lys+(0.1586)Ile+(-0.0939)Leu+(0.0842)Phe;0.768,0.802,0.764,0.747,0.763,0.822,0.771,0.776,(6.5425)+(0.0044)Gly+(-0.1208)His+(-0.0026)Ala+(0.0016)Arg+(-0.0872)Met+(0.0229)Leu;0.768,0.797,0.739,0.729,0.694,0.820,0.802,0.761,(3.7551)+(-0.0509)Cit+(-0.0144)Arg+(-0.0412)Val+(-0.0070)Lys+(0.1849)Ile+(-0.0340)Leu;0.768,0.806,0.759,0.738,0.756,0.845,0.757,0.774,(4.4269)+(-0.0759)Asn+(-0.1034)Cit+(0.0452)Orn+(-0.0093)Lys+(0.1408)Ile+(-0.0788)Leu;0.768,0.800,0.746,0.713,0.771,0.820,0.728,0.758,(6.5024)+(-0.1133)His+(-0.0658)Cit+(0.0034)Pro+(-0.0032)Val+(0.0527)Orn+(-0.0025)Lys;0.768,0.796,0.763,0.758,0.747,0.822,0.765,0.773,(6.9645)+(-0.0225)Asn+(0.0034)Gly+(-0.1063)His+(-0.0048)Ala+(0.0107)Pro+(-0.0063)Tyr;0.768,0.796,0.739,0.725,0.691,0.824,0.819,0.765,(3.8036)+(-0.0502)Cit+(-0.0112)Arg+(-0.0018)Pro+(-0.0509)Val+(-0.0105)Lys+(0.1634)Ile;0.768,0.814,0.732,0.721,0.775,0.835,0.602,0.733,(1.4614)+(0.0387)Ser+(-0.1023)Cit+(0.0092)Pro+(-0.2523)Met+(0.0429)Orn+(-0.0104)Lys;0.768,0.807,0.742,0.728,0.767,0.818,0.669,0.746,(0.9576)+(0.0460)Ser+(-0.0057)Gly+(-0.0909)Cit+(0.0094)Pro+(-0.2941)Met+(0.0345)Orn;0.768,0.805,0.755,0.752,0.726,0.810,0.783,0.768,(3.0443)+(0.0003)Gly+(-0.0156)Tyr+(-0.2203)Met+(0.0118)Orn+(0.1654)Ile+(-0.0812)Leu;0.767,0.812,0.783,0.783,0.770,0.843,0.770,0.792,(5.2235)+(-0.0893

)Asn+(0.0358)Thr+(-0.0516)Val+(-0.2594)Met+(-0.0012)Lys+(0.0873)Leu;0.767,0.811,0.732,0.748,0.729,0.766,0.670,0.728,(-3.1661)+(0.0455)Ser+(0.0003)Gln+(-0.0165)Tyr+(-0.3303)Met+(-0.0092)Lys+(0.1169)Phe;0.767,0.802,0.745,0.725,0.759,0.812,0.724,0.755,(6.3161)+(-0.0278)Asn+(0.0034)Gly+(-0.1246)His+(-0.0108)Arg+(0.0341)Orn+(0.0043)Lys;0.767,0.798,0.752,0.737,0.767,0.810,0.720,0.758,(7.3484)+(-0.0392)Asn+(-0.1177)His+(0.0205)Thr+(-0.0272)Cit+(-0.0075)Arg+(0.0040)Pro;0.767,0.812,0.735,0.746,0.722,0.748,0.720,0.734,(-3.2110)+(0.0538)Ser+(-0.0071)Gly+(-0.0256)Tyr+(-0.3390)Met+(0.0078)Orn+(0.1069)Phe;0.767,0.812,0.762,0.756,0.784,0.822,0.691,0.763,(7.3506)+(-0.1136)His+(0.0303)Thr+(-0.0235)Cit+(-0.0112)Arg+(-0.1636)Met+(0.0082)Lys;0.767,0.809,0.781,0.790,0.746,0.837,0.791,0.791,(1.7532)+(0.0062)Gln+(-0.0224)Arg+(-0.0002)Pro+(-0.2436)Met+(0.1761)Ile+(-0.0866)Leu;0.767,0.794,0.731,0.720,0.685,0.819,0.796,0.755,(3.0079)+(0.0067)Thr+(-0.0424)Cit+(-0.0248)Arg+(-0.0023)Pro+(-0.0552)Val+(0.1632)Ile;0.767,0.792,0.749,0.730,0.749,0.810,0.757,0.761,(6.9865)+(-0.0393)Asn+(0.0047)Gly+(-0.1097)His+(-0.0277)Cit+(-0.0202)Val+(0.0463)Leu;0.767,0.811,0.793,0.803,0.804,0.778,0.756,0.785,(5.8121)+(-0.0003)Gly+(-0.0140)Arg+(0.0052)Pro+(0.0021)Lys+(0.0056)Leu+(-0.1525)Trp;0.767,0.799,0.772,0.753,0.763,0.825,0.804,0.786,(6.9938)+(-0.1088)His+(-0.0050)Ala+(0.0099)Pro+(0.0002)Tyr+(-0.0951)Met+(0.0169)Leu;0.767,0.813,0.750,0.749,0.739,0.857,0.701,0.761,(1.0157)+(0.0369)Ser+(-0.0132)Arg+(-0.0425)Val+(-0.2795)Met+(0.0302)Orn+(0.0718)Leu;0.767,0.808,0.757,0.754,0.730,0.819,0.774,0.769,(2.8021)+(0.0003)Gly+(0.0125)Thr+(-0.2804)Met+(-0.0022)Lys+(0.1642)Ile+(-0.0777)Leu;0.767,0.808,0.742,0.730,0.769,0.758,0.704,0.740,(-1.8873)+(0.0052)Gln+(0.0276)Thr+(-0.0975)Cit+(-0.4572)Met+(0.0469)Ile+(0.0881)Phe;0.767,0.808,0.762,0.744,0.769,0.820,0.754,0.772,(6.6144)+(-0.0080)Asn+(-0.1176)His+(-0.0092)Tyr+(-0.0736)Met+(0.0362)Orn+(0.0058)Lys;0.767,0.

801,0.751,0.712,0.779,0.820,0.745,0.764,(6.7307)+(-0.0207)Asn+(-0.1145)His+(-0.0652)Cit+(0.0510)Orn+(-0.0035)Lys+(0.0071)Leu;0.767,0.799,0.781,0.769,0.784,0.844,0.765,0.790,(5.8265)+(-0.0808)Asn+(-0.0817)Cit+(-0.0412)Val+(-0.1357)Met+(0.0612)Orn+(0.0601)Leu;0.767,0.797,0.763,0.758,0.749,0.826,0.761,0.774,(6.9536)+(-0.0203)Asn+(0.0037)Gly+(-0.1075)His+(-0.0049)Ala+(-0.0041)Arg+(0.0103)Pro;0.767,0.805,0.786,0.807,0.787,0.775,0.736,0.777,(1.7835)+(-0.0816)Asn+(0.0325)Thr+(-0.0025)Ala+(-0.0176)Val+(-0.2835)Met+(0.1282)Phe;0.767,0.801,0.743,0.751,0.708,0.815,0.745,0.755,(3.8768)+(0.0047)Thr+(-0.0771)Cit+(-0.0477)Tyr+(-0.0075)Lys+(0.1600)Ile+(-0.0793)Leu;0.767,0.794,0.723,0.715,0.679,0.804,0.776,0.743,(2.7328)+(0.0031)Thr+(-0.0373)Arg+(-0.0480)Val+(0.0234)Orn+(0.1884)Ile+(-0.0363)Leu;0.767,0.808,0.812,0.814,0.827,0.793,0.788,0.806,(6.1513)+(-0.0058)Arg+(0.0198)Tyr+(-0.1560)Met+(0.0069)Lys+(0.0121)Leu+(-0.1457)Trp;0.767,0.800,0.743,0.717,0.760,0.802,0.731,0.753,(7.0118)+(-0.0390)Asn+(-0.1291)His+(0.0217)Thr+(-0.0295)Cit+(-0.0056)Arg+(0.0132)Leu;0.767,0.793,0.755,0.738,0.743,0.799,0.794,0.768,(7.2693)+(-0.0342)Asn+(-0.1078)His+(0.0064)Pro+(-0.0107)Tyr+(-0.0235)Val+(0.0462)Leu;0.767,0.793,0.676,0.656,0.619,0.791,0.765,0.708,(1.0442)+(0.0258)Ser+(-0.0052)Gln+(-0.0047)Pro+(-0.0462)Val+(0.1881)Ile+(-0.0323)Leu;0.767,0.808,0.747,0.740,0.701,0.843,0.794,0.769,(0.0633)+(0.0447)Ser+(-0.1225)Asn+(-0.0039)Thr+(-0.0097)Ala+(-0.0146)Arg+(0.0567)Ile;0.767,0.808,0.765,0.784,0.754,0.772,0.737,0.761,(0.4617)+(0.0266)Thr+(-0.0062)Ala+(0.0138)Pro+(-0.0169)Val+(-0.3712)Met+(0.1250)Phe;0.767,0.802,0.743,0.729,0.755,0.803,0.713,0.750,(6.4289)+(0.0022)Gly+(-0.1254)His+(-0.0125)Arg+(-0.0193)Tyr+(0.0377)Orn+(0.0051)Lys;0.767,0.801,0.771,0.748,0.795,0.777,0.775,0.774,(1.8088)+(-0.0033)Asn+(-0.0658)Cit+(-0.2801)Met+(-0.0116)Lys+(0.0505)Ile+(0.0760)Phe;0.767,0.799,0.753,0.741,0.756,0.830,0.724,0.763,(6.6080)+(0.0030)Gly+(-0.1236)His+

(0.0162)Thr+(-0.0043)Ala+(-0.0428)Cit+(0.0054)Val;0.767,0.799,0.752,0.733,0.765,0.807,0.733,0.760,(7.1781)+(-0.0442)Asn+(-0.1176)His+(0.0188)Thr+(-0.0323)Cit+(0.0039)Pro+(0.0005)Lys;0.767,0.807,0.760,0.792,0.711,0.799,0.751,0.763,(-0.6681)+(0.0429)Ser+(-0.1663)Asn+(0.0018)Gln+(-0.0057)Ala+(-0.0527)Tyr+(0.0929)Phe;0.767,0.794,0.723,0.706,0.678,0.807,0.798,0.747,(3.0447)+(-0.0014)Gly+(-0.0007)Gln+(-0.0337)Arg+(-0.0595)Val+(0.0277)Orn+(0.1621)Ile;0.767,0.809,0.716,0.698,0.719,0.802,0.698,0.729,(-1.3458)+(0.0479)Ser+(-0.0101)Arg+(0.0015)Tyr+(-0.3082)Met+(-0.0102)Lys+(0.0726)Ile;0.767,0.805,0.764,0.758,0.737,0.819,0.797,0.778,(3.1778)+(-0.0162)Asn+(-0.0003)Pro+(-0.2272)Met+(0.0118)Orn+(0.1633)Ile+(-0.0814)Leu;0.767,0.801,0.776,0.754,0.775,0.828,0.801,0.789,(7.3181)+(-0.1011)His+(-0.0058)Ala+(-0.0327)Cit+(0.0106)Pro+(-0.0865)Met+(0.0176)Leu;0.767,0.812,0.762,0.758,0.779,0.818,0.694,0.762,(7.2167)+(-0.1190)His+(0.0301)Thr+(-0.0152)Arg+(-0.0002)Tyr+(-0.1638)Met+(0.0093)Lys;0.767,0.806,0.722,0.742,0.670,0.751,0.755,0.730,(0.9304)+(-0.0759)Tyr+(0.0084)Orn+(-0.0111)Lys+(0.1561)Ile+(-0.0932)Leu+(0.0828)Phe;0.767,0.805,0.748,0.732,0.759,0.812,0.718,0.755,(6.5939)+(0.0020)Gly+(-0.1207)His+(-0.0099)Arg+(-0.0153)Tyr+(-0.0006)Val+(0.0399)Orn;0.767,0.803,0.733,0.702,0.749,0.807,0.725,0.746,(5.8114)+(0.0033)Gly+(-0.1352)His+(-0.0100)Arg+(0.0309)Orn+(0.0002)Lys+(0.0088)Leu;0.767,0.806,0.698,0.678,0.654,0.790,0.777,0.725,(-2.7198)+(0.0403)Ser+(-0.0236)Thr+(-0.0172)Lys+(0.1636)Ile+(-0.0937)Leu+(0.0550)Phe;0.767,0.794,0.718,0.688,0.736,0.793,0.704,0.730,(5.6880)+(0.0035)Gly+(-0.1392)His+(0.0139)Thr+(-0.0383)Cit+(0.0018)Pro+(0.0141)Leu;0.767,0.813,0.707,0.691,0.759,0.746,0.614,0.703,(-1.0350)+(0.0067)Gly+(0.0293)Thr+(-0.1029)Cit+(-0.4534)Met+(0.0508)Ile+(0.0949)Phe;0.767,0.807,0.751,0.774,0.771,0.752,0.651,0.737,(0.7275)+(0.0339)Thr+(-0.0215)Arg+(0.0105)Pro+(-0.0198)Val+(-0.3927)Met+

(0.1308)Phe;0.767,0.801,0.718,0.702,0.656,0.790,0.835,0.746,(1.9274)+(-0.0016)Gln+(-0.0457)Val+(-0.0146)Lys+(0.1775)Ile+(-0.0315)Leu+(0.0409)Phe;0.767,0.797,0.767,0.746,0.754,0.821,0.812,0.783,(6.9737)+(-0.1173)His+(-0.0029)Ala+(-0.0009)Arg+(-0.0024)Tyr+(-0.0185)Val+(0.0446)Leu;0.767,0.803,0.750,0.752,0.748,0.800,0.714,0.753,(1.2098)+(0.0517)Ser+(-0.0808)Asn+(-0.0069)Gly+(0.0097)Thr+(0.0093)Pro+(-0.2578)Met;0.767,0.800,0.772,0.762,0.760,0.821,0.790,0.783,(6.8045)+(-0.1073)His+(-0.0047)Ala+(0.0119)Pro+(-0.0001)Val+(-0.1060)Met+(0.0103)Lys;0.767,0.801,0.789,0.779,0.756,0.839,0.851,0.806,(1.6606)+(0.0043)Gln+(-0.0095)Ala+(0.0081)Pro+(-0.2426)Met+(-0.0104)Lys+(0.0644)Ile;0.767,0.799,0.743,0.732,0.752,0.804,0.707,0.749,(6.9864)+(-0.1238)His+(0.0193)Thr+(-0.0328)Cit+(-0.0212)Tyr+(0.0034)Val+(-0.0003)Lys;0.767,0.798,0.677,0.637,0.624,0.791,0.809,0.715,(1.3136)+(0.0351)Ser+(-0.0080)Gly+(-0.0061)Gln+(-0.0576)Val+(0.0146)Orn+(0.1569)Ile;0.767,0.798,0.742,0.725,0.692,0.830,0.828,0.769,(3.2508)+(0.0012)Gln+(-0.0638)Cit+(-0.0032)Pro+(-0.0486)Val+(-0.0153)Lys+(0.1613)Ile;0.767,0.792,0.726,0.716,0.681,0.805,0.788,0.747,(2.9670)+(-0.0011)Gly+(-0.0349)Arg+(-0.0475)Val+(0.0255)Orn+(0.1877)Ile+(-0.0366)Leu;0.767,0.808,0.757,0.740,0.771,0.826,0.725,0.766,(6.5368)+(0.0028)Gly+(-0.1163)His+(-0.0070)Arg+(-0.0000)Val+(-0.0709)Met+(0.0383)Orn;0.767,0.795,0.738,0.741,0.676,0.802,0.811,0.758,(4.2285)+(-0.0013)Gly+(-0.0211)Arg+(-0.0326)Tyr+(-0.0523)Val+(-0.0038)Lys+(0.1633)Ile;0.767,0.796,0.745,0.726,0.739,0.806,0.764,0.759,(6.4655)+(0.0031)Gly+(-0.1234)His+(-0.0035)Arg+(-0.0054)Tyr+(-0.0184)Val+(0.0430)Leu;0.767,0.803,0.716,0.699,0.655,0.795,0.829,0.744,(1.3380)+(-0.0461)Val+(0.0137)Orn+(-0.0179)Lys+(0.1731)Ile+(-0.0294)Leu+(0.0349)Phe;0.767,0.809,0.792,0.791,0.729,0.863,0.873,0.814,(3.9900)+(-0.0695)Asn+(0.0028)Thr+(-0.0099)Ala+(-0.0032)Lys+(0.1623)Ile+(-0.0800)Leu;0.767,0.808,0.778,0.789,0.741,0.832,0.784,0.787,(1.9517)+(0.

0061)Gln+(-0.0222)Arg+(-0.0112)Tyr+(-0.2234)Met+(0.1755)Ile+(-0.0859)Leu;0.767,0.805,0.777,0.775,0.779,0.837,0.740,0.783,(4.4746)+(0.0341)Thr+(-0.0040)Ala+(-0.0605)Cit+(-0.0402)Val+(-0.3066)Met+(0.0767)Leu;0.767,0.803,0.761,0.762,0.730,0.814,0.787,0.773,(3.3933)+(-0.0170)Asn+(0.0014)Gly+(-0.0128)Tyr+(-0.2028)Met+(0.1655)Ile+(-0.0796)Leu;0.767,0.799,0.741,0.751,0.702,0.810,0.743,0.752,(3.3099)+(0.0010)Gly+(-0.0780)Cit+(-0.0018)Pro+(-0.0475)Tyr+(0.1667)Ile+(-0.0851)Leu;0.767,0.798,0.758,0.754,0.758,0.832,0.715,0.765,(7.0586)+(0.0018)Gly+(-0.1158)His+(0.0184)Thr+(-0.0028)Ala+(-0.0368)Cit+(-0.0092)Tyr;0.767,0.811,0.795,0.814,0.800,0.801,0.731,0.787,(6.0536)+(-0.0172)Arg+(-0.0089)Tyr+(-0.0041)Val+(0.0281)Orn+(0.0039)Lys+(-0.1375)Trp;0.767,0.806,0.774,0.797,0.746,0.822,0.737,0.775,(-0.1425)+(0.0453)Ser+(-0.1536)Asn+(-0.0063)Ala+(-0.0180)Arg+(-0.0121)Leu+(0.0849)Phe;0.767,0.798,0.797,0.793,0.761,0.862,0.835,0.813,(1.8573)+(-0.1095)Asn+(0.0049)Gly+(0.0060)Gln+(-0.0119)Ala+(-0.1021)Cit+(0.0614)Ile;0.767,0.807,0.765,0.777,0.737,0.827,0.744,0.771,(-0.4508)+(0.0445)Ser+(-0.1559)Asn+(-0.0081)Ala+(-0.0196)Arg+(0.0154)Orn+(0.0677)Phe;0.767,0.801,0.727,0.720,0.665,0.796,0.827,0.752,(3.7990)+(-0.0041)Gly+(-0.0429)Tyr+(-0.0509)Val+(0.0287)Orn+(-0.0127)Lys+(0.1558)Ile;0.767,0.801,0.791,0.781,0.790,0.792,0.818,0.795,(-0.7568)+(-0.0308)Asn+(0.0061)Gln+(-0.3214)Met+(-0.0140)Lys+(0.0465)Ile+(0.0741)Phe;0.767,0.800,0.728,0.688,0.759,0.808,0.714,0.742,(5.8162)+(-0.1343)His+(0.0108)Thr+(-0.0612)Cit+(0.0003)Pro+(0.0413)Orn+(0.0071)Leu;0.767,0.793,0.732,0.727,0.686,0.813,0.781,0.752,(3.0925)+(0.0016)Gly+(-0.0494)Cit+(-0.0206)Arg+(-0.0408)Val+(0.1876)Ile+(-0.0401)Leu;0.767,0.804,0.721,0.699,0.661,0.803,0.848,0.753,(1.9259)+(-0.0024)Gly+(-0.0547)Val+(0.0193)Orn+(-0.0200)Lys+(0.1538)Ile+(0.0283)Phe;0.767,0.801,0.748,0.739,0.761,0.815,0.700,0.754,(7.0670)+(-0.0495)Asn+(0.0034)Gly+(-0.1169)His+(0.0188)Thr+(-0.0367)Cit+(0.0019)Lys;0

.767,0.812,0.821,0.841,0.821,0.806,0.782,0.812,(4.9031)+(-0.0019)Gly+(0.0049)Gln+(-0.0177)Arg+(-0.0016)Val+(0.0031)Lys+(-0.1488)Trp;0.767,0.808,0.767,0.781,0.738,0.831,0.744,0.774,(-0.2389)+(0.0470)Ser+(-0.1417)Asn+(-0.0069)Ala+(-0.0135)Arg+(-0.0095)Lys+(0.0778)Phe;0.767,0.808,0.763,0.744,0.770,0.821,0.754,0.772,(6.5264)+(-0.1177)His+(-0.0074)Tyr+(-0.0011)Val+(-0.0810)Met+(0.0366)Orn+(0.0059)Lys;0.767,0.797,0.754,0.739,0.748,0.816,0.766,0.767,(6.4856)+(0.0037)Gly+(-0.1265)His+(-0.0035)Ala+(-0.0029)Arg+(-0.0040)Tyr+(0.0186)Leu;0.767,0.809,0.756,0.751,0.732,0.820,0.775,0.770,(2.8072)+(0.0117)Thr+(-0.2776)Met+(0.0051)Orn+(-0.0028)Lys+(0.1632)Ile+(-0.0780)Leu;0.767,0.803,0.726,0.690,0.757,0.817,0.695,0.739,(5.5979)+(0.0045)Gly+(-0.1280)His+(-0.0668)Cit+(-0.0021)Arg+(0.0468)Orn+(0.0083)Leu;0.767,0.810,0.776,0.767,0.758,0.838,0.793,0.789,(4.1821)+(-0.0046)Asn+(-0.0654)Cit+(0.0001)Arg+(-0.2015)Met+(0.1693)Ile+(-0.0803)Leu;0.767,0.800,0.778,0.772,0.758,0.804,0.815,0.787,(0.2404)+(-0.0222)Asn+(0.0040)Gly+(-0.0082)Ala+(-0.2816)Met+(0.0550)Ile+(0.0721)Phe;0.767,0.797,0.734,0.716,0.688,0.826,0.812,0.760,(3.4053)+(0.0018)Gly+(-0.0644)Cit+(-0.0030)Pro+(-0.0487)Val+(-0.0146)Lys+(0.1622)Ile;0.767,0.794,0.723,0.709,0.677,0.809,0.793,0.747,(2.9232)+(-0.0008)Gln+(-0.0332)Arg+(-0.0034)Pro+(-0.0592)Val+(0.0287)Orn+(0.1657)Ile;0.767,0.792,0.739,0.718,0.740,0.805,0.750,0.753,(6.3269)+(0.0039)Gly+(-0.1220)His+(-0.0281)Cit+(-0.0170)Val+(-0.0001)Lys+(0.0412)Leu;0.767,0.800,0.737,0.727,0.748,0.806,0.689,0.742,(6.6766)+(0.0021)Gly+(-0.1256)His+(0.0177)Thr+(-0.0361)Cit+(-0.0192)Tyr+(0.0039)Val;0.767,0.809,0.753,0.750,0.707,0.843,0.790,0.772,(-0.1487)+(0.0418)Ser+(-0.1342)Asn+(0.0017)Gln+(-0.0097)Ala+(-0.0171)Arg+(0.0543)Ile;0.767,0.805,0.715,0.715,0.690,0.814,0.697,0.729,(0.0703)+(0.0334)Ser+(-0.0367)Arg+(-0.0042)Pro+(-0.0100)Lys+(0.1736)Ile+(-0.0907)Leu;0.767,0.804,0.792,0.795,0.738,0.857,0.848,0.809,(4.2621)+(-0.0506)Asn+(-0.

0094)Ala+(-0.0187)Arg+(0.0023)Lys+(0.1723)Ile+(-0.0876)Leu;0.767,0.809,0.756,0.753,0.730,0.816,0.775,0.768,(2.6652)+(0.0112)Thr+(-0.0002)Pro+(-0.2827)Met+(0.0039)Orn+(0.1645)Ile+(-0.0795)Leu;0.767,0.807,0.771,0.754,0.775,0.830,0.763,0.781,(7.0223)+(-0.1117)His+(-0.0022)Ala+(-0.0063)Arg+(-0.0048)Tyr+(-0.0482)Met+(0.0411)Orn;0.767,0.805,0.756,0.735,0.768,0.812,0.747,0.765,(6.4019)+(-0.1164)His+(-0.0080)Arg+(0.0064)Pro+(-0.1134)Met+(0.0320)Orn+(0.0071)Lys;0.767,0.803,0.754,0.732,0.770,0.815,0.737,0.764,(6.4185)+(0.0057)Gly+(-0.1173)His+(-0.0412)Cit+(0.0079)Arg+(-0.1092)Met+(0.0229)Leu;0.767,0.801,0.714,0.704,0.656,0.795,0.801,0.739,(3.6925)+(-0.0018)Gln+(-0.0390)Tyr+(-0.0510)Val+(0.0271)Orn+(-0.0124)Lys+(0.1572)Ile;0.767,0.802,0.729,0.702,0.686,0.829,0.816,0.758,(-0.6895)+(0.0360)Ser+(-0.0147)Thr+(-0.0161)Ala+(-0.0976)Cit+(0.0095)Pro+(0.0612)Ile;0.767,0.802,0.753,0.744,0.756,0.802,0.737,0.760,(6.1889)+(-0.0064)Asn+(0.0042)Gly+(-0.1151)His+(0.0088)Pro+(-0.1256)Met+(0.0101)Lys;0.767,0.806,0.755,0.726,0.768,0.811,0.763,0.767,(6.1631)+(-0.1216)His+(0.0052)Pro+(-0.1257)Met+(0.0290)Orn+(0.0037)Lys+(0.0103)Leu;0.767,0.805,0.747,0.752,0.762,0.811,0.655,0.745,(2.2178)+(0.0456)Ser+(-0.0744)Asn+(-0.0685)Cit+(0.0117)Pro+(-0.0056)Tyr+(-0.2068)Met;0.767,0.799,0.756,0.747,0.764,0.808,0.724,0.761,(7.4011)+(-0.0401)Asn+(-0.1224)His+(0.0212)Thr+(-0.0137)Arg+(-0.0017)Val+(0.0046)Lys;0.767,0.809,0.753,0.755,0.723,0.811,0.767,0.764,(2.9322)+(0.0128)Thr+(0.0007)Pro+(-0.0164)Tyr+(-0.2610)Met+(0.1635)Ile+(-0.0777)Leu;0.767,0.807,0.743,0.735,0.685,0.836,0.819,0.769,(-1.3151)+(0.0445)Ser+(-0.1701)Asn+(0.0004)Gln+(-0.0109)Ala+(0.0422)Ile+(0.0462)Phe;0.767,0.802,0.767,0.757,0.759,0.791,0.795,0.775,(0.2567)+(-0.0312)Asn+(0.0237)Thr+(-0.0083)Ala+(-0.3388)Met+(0.0504)Ile+(0.0753)Phe;0.767,0.795,0.761,0.744,0.745,0.816,0.798,0.776,(6.9086)+(-0.1162)His+(-0.0054)Ala+(-0.0024)Arg+(0.0090)Pro+(-0.0130)Tyr+(0.0141)Leu;0.767,0.794,0.700,0

.677,0.650,0.795,0.794,0.729,(-1.0321)+(0.0271)Ser+(-0.0146)Thr+(-0.0654)Cit+(-0.0506)Val+(0.1430)Ile+(0.0341)Phe;0.767,0.800,0.777,0.783,0.763,0.769,0.797,0.778,(1.7474)+(-0.0034)Arg+(0.0103)Pro+(-0.0405)Val+(-0.3458)Met+(0.0524)Leu+(0.1052)Phe;0.767,0.798,0.763,0.748,0.766,0.830,0.746,0.773,(7.0630)+(-0.1215)His+(0.0183)Thr+(-0.0042)Ala+(-0.0380)Cit+(0.0046)Val+(-0.0013)Lys;0.767,0.807,0.788,0.784,0.726,0.858,0.874,0.811,(3.9932)+(-0.0673)Asn+(-0.0108)Ala+(0.0046)Pro+(-0.0024)Lys+(0.1575)Ile+(-0.0795)Leu;0.767,0.803,0.759,0.751,0.788,0.831,0.670,0.760,(1.5022)+(0.0435)Ser+(-0.0059)Gly+(-0.0885)Cit+(-0.0067)Arg+(-0.2460)Met+(0.0415)Orn;0.767,0.797,0.777,0.752,0.773,0.827,0.820,0.793,(7.0989)+(-0.1059)His+(-0.0019)Ala+(0.0165)Tyr+(-0.0237)Val+(-0.1166)Met+(0.0560)Leu;0.767,0.806,0.802,0.810,0.812,0.787,0.767,0.794,(6.1654)+(0.0009)Gly+(-0.0051)Arg+(-0.1283)Met+(0.0069)Lys+(0.0132)Leu+(-0.1415)Trp;0.767,0.805,0.724,0.747,0.669,0.752,0.760,0.732,(0.9406)+(0.0004)Thr+(-0.0757)Tyr+(-0.0100)Lys+(0.1589)Ile+(-0.0941)Leu+(0.0849)Phe;0.767,0.802,0.765,0.764,0.749,0.846,0.740,0.775,(2.9250)+(0.0400)Ser+(-0.1219)Asn+(-0.0101)Ala+(-0.0789)Cit+(-0.0010)Arg+(0.0146)Pro;0.767,0.808,0.818,0.834,0.821,0.802,0.782,0.810,(7.1798)+(-0.0591)Asn+(-0.0080)Arg+(0.0021)Tyr+(-0.0027)Val+(0.0095)Lys+(-0.1351)Trp;0.767,0.805,0.716,0.713,0.684,0.820,0.721,0.734,(-0.2767)+(0.0386)Ser+(-0.0134)Thr+(-0.0320)Arg+(-0.0068)Lys+(0.1731)Ile+(-0.0926)Leu;0.767,0.808,0.716,0.705,0.718,0.787,0.688,0.724,(-1.8876)+(0.0467)Ser+(0.0006)Gln+(-0.0146)Arg+(-0.0013)Tyr+(-0.3354)Met+(0.0669)Ile;0.767,0.802,0.762,0.770,0.735,0.796,0.770,0.768,(0.4965)+(0.0541)Ser+(-0.1811)Asn+(-0.0055)Gly+(-0.0182)Val+(-0.0066)Lys+(0.0966)Phe;0.767,0.797,0.753,0.736,0.744,0.815,0.770,0.766,(6.3139)+(0.0034)Gly+(-0.1289)His+(-0.0036)Ala+(-0.0065)Tyr+(0.0022)Lys+(0.0179)Leu;0.767,0.796,0.713,0.686,0.682,0.814,0.775,0.739,(2.7653)+(-0.0022)Gln+(-0.0925)Cit+(-0.0424)

Val+(0.0396)Orn+(0.1743)Ile+(-0.0367)Leu;0.767,0.796,0.754,0.736,0.749,0.817,0.765,0.767,(6.3251)+(0.0038)Gly+(-0.1290)His+(-0.0038)Ala+(-0.0053)Arg+(0.0031)Lys+(0.0168)Leu;0.767,0.794,0.764,0.745,0.755,0.819,0.793,0.778,(7.1612)+(-0.1086)His+(-0.0063)Ala+(-0.0350)Cit+(0.0099)Pro+(-0.0118)Tyr+(0.0155)Leu;0.767,0.809,0.714,0.702,0.718,0.787,0.684,0.723,(-1.7475)+(0.0473)Ser+(-0.0142)Arg+(-0.0016)Tyr+(-0.3327)Met+(0.0010)Orn+(0.0669)Ile;0.767,0.802,0.757,0.747,0.770,0.819,0.710,0.761,(6.7280)+(0.0053)Gly+(-0.1056)His+(-0.0352)Cit+(0.0084)Pro+(0.0029)Val+(-0.0976)Met;0.767,0.80

0,0.781,0.753,0.784,0.844,0.802,0.796,(3.2770)+(-0.0108)Ala+(-0.1122)Cit+(0.0071)Arg+(-0.1897)Met+(0.0380)Orn+(0.0622)Ile;0.767,0.795,0.741,0.728,0.693,0.823,0.816,0.765,(3.6220)+(-0.0642)Cit+(-0.0040)Pro+(-0.0390)Val+(-0.0112)Lys+(0.1862)Ile+(-0.0336)Leu;0.767,0.794,0.757,0.733,0.751,0.803,0.801,0.772,(7.1733)+(-0.0374)Asn+(-0.1096)His+(-0.0005)Arg+(0.0056)Pro+(-0.0248)Val+(0.0472)Leu;0.767,0.805,0.807,0.822,0.783,0.793,0.825,0.806,(-0.2743)+(0.0051)Gln+(-0.0064)Tyr+(-0.0404)Val+(-0.3532)Met+(0.0563)Leu+(0.1101)Phe;0.767,0.809,0.713,0.685,0.744,0.800,0.659,0.722,(0.7807)+(0.0417)Ser+(-0.1602)Asn+(-0.0960)Cit+(-0.0080)Arg+(0.0319)Orn+(0.0276)Ile;0.767,0.805,0.764,0.764,0.731,0.814,0.797,0.776,(3.5967)+(-0.0137)Asn+(0.0010)Pro+(-0.0150)Tyr+(-0.2005)Met+(0.1641)Ile+(-0.0797)Leu;0.767,0.794,0.758,0.749,0.747,0.825,0.760,0.770,(6.6048)+(0.0035)Gly+(-0.1150)His+(-0.0053)Ala+(-0.0060)Arg+(0.0097)Pro+(0.0022)Val;0.767,0.798,0.738,0.743,0.676,0.810,0.804,0.758,(3.5768)+(0.0013)Gln+(-0.0235)Arg+(-0.0319)Tyr+(-0.0518)Val+(-0.0048)Lys+(0.1620)Ile;0.766,0.794,0.755,0.733,0.755,0.827,0.760,0.769,(6.4063)+(0.0049)Gly+(-0.1208)His+(-0.0047)Ala+(-0.0425)Cit+(0.0034)Arg+(0.0210)Leu;0.766,0.794,0.756,0.736,0.757,0.827,0.754,0.768,(6.5476)+(0.0050)Gly+(-0.1196)His+(-0.0044)Ala+(-0.0397)Cit+(-0.0013)Tyr+(0.020

8)Leu;0.766,0.811,0.762,0.756,0.749,0.839,0.752,0.774,(3.3823)+(0.004
7)Gly+(-0.0747)Cit+(-0.2206)Met+(0.0011)Lys+(0.1730)Ile+(-0.0805)Leu;
0.766,0.803,0.751,0.766,0.731,0.794,0.722,0.753,(-0.0839)+(0.0434)Ser
+(-0.2108)Asn+(0.0008)Gln+(-0.0231)Val+(0.0245)Orn+(0.0947)Phe;0.766,
0.809,0.753,0.750,0.789,0.853,0.615,0.752,(2.1591)+(0.0334)Ser+(-0.10
29)Cit+(-0.0038)Val+(-0.2023)Met+(0.0520)Orn+(-0.0092)Lys;0.766,0.799
,0.772,0.743,0.772,0.819,0.815,0.787,(6.8737)+(-0.1083)His+(0.0052)Ar
g+(0.0141)Tyr+(-0.0250)Val+(-0.1333)Met+(0.0572)Leu;0.766,0.798,0.729
,0.733,0.661,0.801,0.806,0.750,(3.3201)+(-0.0022)Pro+(-0.0367)Tyr+(-0
.0399)Val+(-0.0077)Lys+(0.1832)Ile+(-0.0330)Leu;0.766,0.796,0.707,0.6
89,0.635,0.804,0.832,0.740,(-0.0503)+(0.0300)Ser+(-0.0092)Gly+(-0.005
7)Pro+(-0.0450)Val+(0.1897)Ile+(-0.0383)Leu;0.766,0.792,0.746,0.729,0
.735,0.794,0.782,0.760,(6.8308)+(-0.1170)His+(-0.0037)Arg+(0.0062)Pro
+(-0.0138)Tyr+(-0.0202)Val+(0.0419)Leu;0.766,0.795,0.739,0.738,0.684,
0.814,0.803,0.760,(2.8968)+(0.0014)Gln+(-0.0287)Arg+(-0.0441)Val+(-0.
0050)Lys+(0.1874)Ile+(-0.0357)Leu;0.766,0.794,0.739,0.735,0.690,0.817
,0.796,0.759,(2.7419)+(0.0017)Gln+(-0.0486)Cit+(-0.0229)Arg+(-0.0404)
Val+(0.1875)Ile+(-0.0417)Leu;0.766,0.801,0.761,0.759,0.773,0.859,0.66
7,0.765,(2.8965)+(0.0262)Ser+(-0.0080)Ala+(-0.1241)Cit+(-0.0234)Tyr+(
0.0636)Orn+(-0.0172)Lys;0.766,0.809,0.812,0.829,0.816,0.800,0.770,0.8
04,(6.9109)+(-0.0583)Asn+(0.0009)Gly+(-0.0080)Arg+(0.0005)Tyr+(0.0083
)Lys+(-0.1383)Trp;0.766,0.806,0.772,0.775,0.698,0.828,0.877,0.795,(0.
7223)+(-0.0106)Thr+(-0.0119)Ala+(0.0045)Orn+(0.1718)Ile+(-0.0959)Leu+
(0.0491)Phe;0.766,0.805,0.769,0.766,0.777,0.851,0.699,0.773,(3.7103)+
(0.0402)Ser+(-0.1530)Asn+(-0.0038)Gly+(-0.0931)Cit+(-0.0132)Val+(0.05
48)Orn;0.766,0.800,0.770,0.749,0.765,0.813,0.804,0.783,(6.9236)+(-0.1
105)His+(0.0012)Arg+(-0.0238)Val+(-0.1279)Met+(0.0078)Lys+(0.0530)Leu
;0.766,0.798,0.762,0.751,0.766,0.827,0.736,0.770,(7.2106)+(-0.1216)Hi

s+(0.0198)Thr+(-0.0040)Ala+(-0.0321)Cit+(-0.0074)Arg+(0.0038)Val;0.766,0.792,0.689,0.659,0.648,0.808,0.765,0.720,(1.4235)+(0.0269)Ser+(-0.0044)Gln+(-0.0603)Cit+(-0.0033)Pro+(-0.0518)Val+(0.1581)Ile;0.766,0.808,0.743,0.740,0.788,0.846,0.584,0.740,(1.9711)+(0.0332)Ser+(0.0069)Thr+(-0.1050)Cit+(-0.2296)Met+(0.0472)Orn+(-0.0114)Lys;0.766,0.800,0.726,0.707,0.664,0.802,0.849,0.756,(2.1589)+(-0.0014)Gln+(-0.0048)Pro+(-0.0547)Val+(-0.0165)Lys+(0.1624)Ile+(0.0382)Phe;0.766,0.798,0.774,0.757,0.749,0.828,0.833,0.792,(3.0116)+(-0.0097)Ala+(0.0084)Pro+(-0.2184)Met+(0.0127)Orn+(-0.0099)Lys+(0.0602)Ile;0.766,0.797,0.755,0.756,0.751,0.811,0.718,0.759,(7.2598)+(-0.1237)His+(0.0210)Thr+(-0.0022)Ala+(-0.0158)Arg+(-0.0163)Tyr+(0.0052)Lys;0.766,0.800,0.757,0.743,0.768,0.814,0.733,0.764,(7.3819)+(-0.0433)Asn+(-0.1174)His+(0.0200)Thr+(-0.0320)Cit+(0.0001)Val+(0.0010)Lys;0.766,0.800,0.753,0.735,0.769,0.814,0.726,0.761,(6.5704)+(0.0057)Asn+(0.0056)Gly+(-0.1168)His+(-0.0350)Cit+(-0.1019)Met+(0.0220)Leu;0.766,0.811,0.774,0.769,0.753,0.835,0.785,0.785,(4.2955)+(-0.0649)Cit+(-0.0002)Arg+(-0.0122)Tyr+(-0.1850)Met+(0.1703)Ile+(-0.0802)Leu;0.766,0.800,0.721,0.709,0.655,0.795,0.838,0.749,(1.4092)+(-0.0006)Thr+(-0.0446)Val+(-0.0158)Lys+(0.1763)Ile+(-0.0326)Leu+(0.0386)Phe;0.766,0.798,0.757,0.752,0.761,0.832,0.710,0.764,(7.1281)+(0.0023)Gly+(-0.1178)His+(0.0192)Thr+(-0.0031)Ala+(-0.0317)Cit+(-0.0086)Arg;0.766,0.806,0.749,0.751,0.723,0.852,0.724,0.762,(3.0671)+(0.0410)Ser+(-0.1792)Asn+(-0.0148)Arg+(-0.0497)Val+(0.0382)Orn+(0.0692)Leu;0.766,0.806,0.756,0.753,0.727,0.810,0.785,0.769,(3.0939)+(0.0003)Pro+(-0.0162)Tyr+(-0.2192)Met+(0.0120)Orn+(0.1648)Ile+(-0.0812)Leu;0.766,0.800,0.788,0.807,0.790,0.838,0.698,0.783,(1.3896)+(0.0386)Ser+(-0.1010)Asn+(0.0056)Gln+(-0.0721)Cit+(-0.0009)Arg+(-0.1681)Met;0.766,0.793,0.668,0.637,0.613,0.772,0.788,0.703,(-0.0502)+(0.0350)Ser+(-0.0067)Gln+(-0.0133)Thr+(-0.0559)Val+(0.1526)Ile+(0.0389)Phe;0.766,0.79

9,0.772,0.763,0.762,0.820,0.784,0.782,(6.9598)+(-0.1069)His+(-0.0047)Ala+(-0.0058)Arg+(0.0119)Pro+(-0.1020)Met+(0.0115)Lys;0.766,0.809,0.709,0.698,0.714,0.782,0.678,0.718,(-1.6608)+(0.0476)Ser+(-0.0150)Arg+(0.0045)Pro+(-0.0048)Tyr+(-0.3374)Met+(0.0621)Ile;0.766,0.800,0.733,0.699,0.764,0.813,0.700,0.744,(6.2425)+(-0.1273)His+(0.0121)Thr+(-0.0567)Cit+(-0.0081)Arg+(0.0016)Pro+(0.0434)Orn;0.766,0.812,0.728,0.740,0.727,0.771,0.664,0.726,(-3.0597)+(0.0447)Ser+(-0.0190)Tyr+(-0.3238)Met+(0.0112)Orn+(-0.0109)Lys+(0.1145)Phe;0.766,0.807,0.769,0.803,0.769,0.741,0.699,0.753,(2.0222)+(-0.0904)Asn+(0.0353)Thr+(-0.0369)Tyr+(-0.0183)Val+(-0.2537)Met+(0.1407)Phe;0.766,0.798,0.741,0.736,0.748,0.800,0.696,0.745,(7.1094)+(-0.1283)His+(0.0211)Thr+(-0.0158)Arg+(-0.0221)Tyr+(0.0015)Val+(0.0042)Lys;0.766,0.806,0.779,0.781,0.783,0.831,0.726,0.781,(2.9096)+(0.0039)Gln+(0.0308)Thr+(-0.0629)Cit+(-0.0418)Val+(-0.3477)Met+(0.0746)Leu;0.766,0.798,0.783,0.798,0.784,0.847,0.695,0.781,(3.0009)+(0.0411)Ser+(-0.0792)Asn+(-0.0030)Ala+(-0.0641)Cit+(-0.1312)Met+(0.0008)Lys;0.766,0.809,0.750,0.750,0.762,0.850,0.656,0.754,(3.4963)+(0.0365)Ser+(-0.1632)Asn+(-0.0960)Cit+(0.0071)Pro+(-0.0155)Val+(0.0532)Orn;0.766,0.804,0.773,0.764,0.779,0.804,0.762,0.777,(1.8068)+(-0.0734)Cit+(-0.0396)Val+(-0.2932)Met+(0.0466)Orn+(0.0506)Leu+(0.0965)Phe;0.766,0.796,0.724,0.729,0.657,0.797,0.800,0.746,(3.3727)+(-0.0002)Gln+(-0.0384)Tyr+(-0.0401)Val+(-0.0075)Lys+(0.1796)Ile+(-0.0318)Leu;0.766,0.792,0.771,0.750,0.763,0.821,0.809,0.786,(7.6108)+(-0.0240)Asn+(-0.1051)His+(-0.0030)Ala+(-0.0234)Cit+(-0.0193)Val+(0.0463)Leu;0.766,0.804,0.758,0.740,0.750,0.840,0.763,0.773,(4.0177)+(-0.0893)Asn+(-0.0010)Thr+(-0.1003)Cit+(0.0406)Orn+(0.1424)Ile+(-0.0838)Leu;0.766,0.797,0.733,0.737,0.664,0.797,0.818,0.754,(3.7434)+(-0.0026)Gly+(-0.0403)Tyr+(-0.0402)Val+(-0.0066)Lys+(0.1799)Ile+(-0.0321)Leu;0.766,0.796,0.708,0.692,0.662,0.821,0.766,0.735,(0.3775)+(0.0214)Ser+(-0.0742)Cit+

(-0.0058)Pro+(-0.0371)Val+(0.1906)Ile+(-0.0451)Leu;0.766,0.810,0.786,0.801,0.791,0.773,0.747,0.778,(5.9327)+(-0.0132)Arg+(0.0062)Pro+(-0.0131)Tyr+(0.0030)Lys+(0.0061)Leu+(-0.1484)Trp;0.766,0.804,0.781,0.801,0.790,0.760,0.719,0.768,(1.7102)+(-0.0827)Asn+(0.0326)Thr+(-0.0188)Val+(-0.2966)Met+(-0.0008)Lys+(0.1283)Phe;0.766,0.800,0.747,0.732,0.758,0.800,0.725,0.754,(7.0753)+(-0.0383)Asn+(-0.1254)His+(0.0198)Thr+(-0.0134)Arg+(0.0038)Pro+(0.0032)Lys;0.766,0.797,0.754,0.747,0.755,0.820,0.721,0.761,(6.8657)+(0.0017)Gly+(-0.1271)His+(0.0182)Thr+(-0.0029)Ala+(-0.0155)Arg+(0.0040)Lys;0.766,0.809,0.720,0.701,0.752,0.789,0.656,0.724,(-0.2725)+(0.0445)Ser+(-0.1883)Asn+(-0.1043)Cit+(-0.0010)Pro+(0.0340)Orn+(0.0541)Phe;0.766,0.806,0.755,0.736,0.765,0.812,0.741,0.763,(6.7161)+(-0.1110)His+(-0.0058)Arg+(0.0068)Pro+(-0.0123)Tyr+(-0.0776)Met+(0.0369)Orn;0.766,0.800,0.794,0.815,0.792,0.845,0.706,0.789,(1.7692)+(0.0374)Ser+(-0.1054)Asn+(0.0057)Gln+(-0.0691)Cit+(-0.0032)Val+(-0.1524)Met;0.766,0.793,0.729,0.716,0.682,0.810,0.803,0.753,(2.8798)+(-0.0015)Gly+(-0.0338)Arg+(-0.0035)Pro+(-0.0594)Val+(0.0288)Orn+(0.1652)Ile;0.766,0.808,0.769,0.764,0.754,0.853,0.752,0.781,(3.3832)+(-0.0020)Gly+(0.0268)Thr+(-0.0497)Val+(-0.3300)Met+(0.0248)Orn+(0.0797)Leu;0.766,0.798,0.723,0.707,0.664,0.811,0.820,0.751,(2.4510)+(-0.0065)Pro+(-0.0457)Val+(0.0212)Orn+(-0.0156)Lys+(0.1833)Ile+(-0.0272)Leu;0.766,0.797,0.714,0.712,0.650,0.799,0.793,0.738,(3.6858)+(-0.0012)Gln+(0.0089)Thr+(-0.0399)Tyr+(-0.0504)Val+(-0.0130)Lys+(0.1605)Ile;0.766,0.794,0.715,0.691,0.660,0.809,0.822,0.746,(0.3745)+(0.0331)Ser+(-0.0057)Gly+(-0.0119)Thr+(-0.0545)Cit+(-0.0499)Val+(0.1480)Ile;0.766,0.806,0.757,0.731,0.769,0.814,0.761,0.769,(6.6230)+(-0.1213)His+(-0.0029)Arg+(-0.0091)Tyr+(-0.0818)Met+(0.0352)Orn+(0.0132)Leu;0.766,0.796,0.713,0.697,0.680,0.819,0.746,0.736,(-0.4707)+(0.0343)Ser+(0.0001)Gln+(-0.0220)Thr+(-0.0787)Cit+(0.1721)Ile+(-0.0922)Leu;0.766,0.794,0.688,0.658

,0.629,0.795,0.816,0.725,(1.2774)+(0.0355)Ser+(-0.0075)Gly+(-0.0052)Gln+(-0.0032)Pro+(-0.0560)Val+(0.1610)Ile;0.766,0.802,0.764,0.767,0.687,0.827,0.872,0.788,(0.4506)+(-0.0010)Gly+(-0.0132)Ala+(0.0020)Pro+(0.1653)Ile+(-0.0935)Leu+(0.0460)Phe;0.766,0.798,0.744,0.736,0.755,0.808,0.696,0.749,(7.2636)+(-0.1229)His+(0.0217)Thr+(-0.0259)Cit+(-0.0093)Arg+(-0.0208)Tyr+(0.0030)Val;0.766,0.798,0.703,0.675,0.668,0.823,0.763,0.732,(0.1586)+(0.0168)Ser+(-0.0934)Cit+(-0.0067)Pro+(-0.0515)Val+(0.0337)Orn+(0.1486)Ile;0.766,0.809,0.776,0.792,0.791,0.779,0.703,0.766,(5.9996)+(0.0167)Thr+(-0.0179)Arg+(-0.0145)Tyr+(-0.0015)Lys+(0.0105)Leu+(-0.1550)Trp;0.766,0.805,0.730,0.732,0.679,0.822,0.761,0.749,(-1.1050)+(0.0300)Ser+(-0.0129)Ala+(-0.0976)Cit+(-0.0541)Tyr+(0.0574)Ile+(0.0545)Phe;0.766,0.801,0.776,0.773,0.760,0.803,0.802,0.784,(0.1541)+(0.0041)Gly+(-0.0082)Ala+(-0.0099)Arg+(-0.2904)Met+(0.0568)Ile+(0.0736)Phe;0.766,0.801,0.761,0.765,0.755,0.778,0.754,0.763,(0.6184)+(0.0245)Thr+(-0.0084)Ala+(0.0119)Pro+(-0.3433)Met+(-0.0102)Lys+(0.1034)Phe;0.766,0.795,0.752,0.747,0.734,0.814,0.760,0.764,(6.3694)+(0.0026)Gly+(-0.1164)His+(-0.0051)Ala+(0.0104)Pro+(-0.0128)Tyr+(0.0059)Lys;0.766,0.806,0.760,0.772,0.742,0.8
36,0.707,0.764,(1.6768)+(0.0440)Ser+(-0.0691)Asn+(-0.0065)Ala+(-0.0099)Arg+(0.0153)Pro+(-0.1843)Met;0.766,0.800,0.789,0.807,0.790,0.841,0.699,0.784,(1.4369)+(0.0385)Ser+(-0.1005)Asn+(0.0056)Gln+(-0.0726)Cit+(-0.1646)Met+(-0.0012)Lys;0.766,0.798,0.726,0.714,0.683,0.808,0.789,0.749,(3.1858)+(-0.0314)Arg+(-0.0475)Val+(0.0277)Orn+(-0.0072)Lys+(0.1856)Ile+(-0.0315)Leu;0.766,0.793,0.735,0.731,0.683,0.809,0.801,0.756,(3.3606)+(0.0000)Gly+(-0.0267)Arg+(-0.0448)Val+(-0.0042)Lys+(0.1875)Ile+(-0.0343)Leu;0.766,0.800,0.753,0.770,0.703,0.797,0.782,0.763,(4.2099)+(-0.0832)Asn+(-0.0002)Gly+(0.0061)Thr+(-0.0480)Tyr+(0.1494)Ile+(-0.0795)Leu;0.766,0.796,0.764,0.746,0.755,0.805,0.802,0.777,(7.2589)+(

-0.0391)Asn+(-0.1128)His+(-0.0013)Arg+(-0.0235)Val+(0.0045)Lys+(0.0464)Leu;0.766,0.804,0.709,0.683,0.655,0.791,0.829,0.740,(2.3643)+(-0.0026)Gln+(-0.0555)Val+(0.0206)Orn+(-0.0183)Lys+(0.1560)Ile+(0.0321)Phe;0.766,0.804,0.749,0.727,0.759,0.805,0.749,0.760,(6.7835)+(-0.0136)Asn+(-0.1233)His+(-0.0060)Arg+(-0.0218)Tyr+(0.0373)Orn+(0.0096)Leu;0.766,0.801,0.780,0.784,0.732,0.813,0.847,0.794,(0.6939)+(-0.1373)Asn+(0.0042)Gln+(-0.0062)Pro+(0.1516)Ile+(-0.0935)Leu+(0.0566)Phe;0.766,0.811,0.762,0.756,0.750,0.839,0.751,0.774,(3.4710)+(0.0047)Gly+(-0.0737)Cit+(-0.0009)Arg+(-0.2159)Met+(0.1727)Ile+(-0.0800)Leu;0.766,0.808,0.753,0.736,0.768,0.819,0.721,0.761,(6.2910)+(0.0033)Gly+(-0.1210)His+(-0.0101)Arg+(-0.0915)Met+(0.0349)Orn+(0.0078)Lys;0.766,0.804,0.789,0.777,0.780,0.815,0.823,0.799,(1.8848)+(-0.0092)Ala+(-0.0756)Cit+(-0.0144)Tyr+(-0.2270)Met+(0.0603)Ile+(0.0754)Phe;0.766,0.811,0.808,0.826,0.809,0.797,0.767,0.800,(4.5587)+(0.0046)Gln+(-0.0161)Arg+(-0.0095)Tyr+(0.0005)Lys+(0.0087)Leu+(-0.1532)Trp;0.766,0.803,0.730,0.726,0.699,0.817,0.744,0.746,(0.1404)+(0.0390)Ser+(-0.0066)Gly+(-0.0416)Arg+(-0.0043)Pro+(0.1768)Ile+(-0.0988)Leu;0.766,0.802,0.754,0.747,0.743,0.786,0.775,0.763,(-0.6980)+(0.0023)Gly+(0.0206)Thr+(-0.0085)Ala+(-0.3734)Met+(0.0547)Ile+(0.0774)Phe;0.766,0.806,0.779,0.799,0.787,0.768,0.719,0.768,(1.6580)+(-0.0898)Asn+(0.0285)Thr+(-0.0211)Val+(-0.2837)Met+(0.0200)Orn+(0.1237)Phe;0.766,0.811,0.731,0.746,0.729,0.767,0.669,0.728,(-3.0941)+(0.0460)Ser+(-0.0165)Tyr+(-0.3296)Met+(-0.0092)Lys+(0.0004)Leu+(0.1168)Phe;0.766,0.802,0.712,0.690,0.655,0.793,0.835,0.743,(2.2920)+(-0.0022)Gln+(0.0045)Thr+(-0.0553)Val+(-0.0182)Lys+(0.1582)Ile+(0.0359)Phe;0.766,0.801,0.759,0.752,0.770,0.819,0.713,0.764,(6.9068)+(-0.0039)Asn+(0.0050)Gly+(-0.1011)His+(-0.0335)Cit+(0.0091)Pro+(-0.0906)Met;0.766,0.795,0.757,0.750,0.758,0.833,0.722,0.766,(6.8449)+(0.0023)Gly+(-0.1184)His+(0.0167)Thr+(-0.0033)Ala+(-0.0380)Cit+(0.0007)Lys;0.7

66,0.795,0.722,0.696,0.742,0.797,0.693,0.732,(6.0306)+(0.0035)Gly+(-0.1385)His+(0.0170)Thr+(-0.0320)Cit+(-0.0087)Arg+(0.0148)Leu;0.766,0.807,0.758,0.731,0.768,0.815,0.766,0.770,(6.4311)+(-0.1242)His+(-0.0096)Tyr+(-0.0938)Met+(0.0330)Orn+(0.0034)Lys+(0.0129)Leu;0.766,0.796,0.719,0.704,0.684,0.826,0.752,0.741,(-0.3236)+(0.0336)Ser+(-0.0204)Thr+(-0.0792)Cit+(-0.0041)Pro+(0.1783)Ile+(-0.0925)Leu;0.766,0.799,0.749,0.711,0.775,0.818,0.743,0.762,(6.5582)+(-0.0267)Asn+(-0.1158)His+(-0.0630)Cit+(0.0019)Pro+(0.0482)Orn+(0.0045)Leu;0.766,0.808,0.807,0.817,0.814,0.795,0.778,0.801,(6.7150)+(-0.0497)Asn+(0.0010)Gly+(-0.0040)Arg+(-0.0007)Tyr+(0.0104)Leu+(-0.1401)Trp;0.766,0.804,0.783,0.761,0.771,0.831,0.833,0.799,(3.9525)+(-0.0115)Ala+(-0.0763)Cit+(0.0106)Pro+(-0.0064)Tyr+(-0.1892)Met+(0.0648)Ile;0.766,0.799,0.767,0.775,0.744,0.853,0.733,0.776,(3.5800)+(0.0398)Ser+(-0.1257)Asn+(-0.0087)Ala+(-0.0708)Cit+(0.0161)Pro+(-0.0071)Val;0.766,0.810,0.782,0.784,0.776,0.841,0.747,0.787,(5.3697)+(-0.0839)Asn+(0.0376)Thr+(-0.0089)Arg+(-0.0510)Val+(-0.2585)Met+(0.0858)Leu;0.766,0.806,0.769,0.764,0.790,0.857,0.675,0.772,(1.9249)+(0.0320)Ser+(-0.0060)Ala+(-0.1086)Cit+(0.0007)Tyr+(-0.1985)Met+(0.0494)Orn;0.766,0.800,0.752,0.737,0.761,0.807,0.732,0.759,(6.7764)+(-0.1207)His+(-0.0121)Arg+(-0.0204)Tyr+(-0.0022)Val+(0.0401)Orn+(0.0057)Lys;0.766,0.803,0.709,0.705,0.687,0.813,0.689,0.724,(0.0307)+(0.0338)Ser+(-0.0002)Gln+(-0.0373)Arg+(-0.0102)Lys+(0.1658)Ile+(-0.0895)Leu;0.766,0.795,0.709,0.686,0.659,0.811,0.801,0.739,(0.4229)+(0.0283)Ser+(-0.0058)Gly+(-0.0658)Cit+(-0.0394)Val+(0.1815)Ile+(-0.0415)Leu;0.766,0.795,0.725,0.730,0.650,0.787,0.823,0.747,(3.2843)+(-0.0045)Gly+(0.0054)Thr+(-0.0009)Pro+(-0.0502)Tyr+(-0.0519)Val+(0.1561)Ile;0.766,0.801,0.730,0.691,0.762,0.811,0.706,0.743,(6.0578)+(-0.1332)His+(0.0129)Thr+(-0.0555)Cit+(-0.0074)Arg+(0.0408)Orn+(0.0069)Leu;0.766,0.799,0.722,0.716,0.661,0.801,0.807,0.746,(3.1320)+(-0.0030)Pro+(-0.037

4)Tyr+(-0.0505)Val+(0.0259)Orn+(-0.0139)Lys+(0.1587)Ile;0.766,0.797,0.773,0.763,0.760,0.823,0.790,0.784,(7.1106)+(0.0076)Asn+(-0.1039)His+(-0.0046)Ala+(0.0112)Pro+(0.0024)Val+(-0.0811)Met;0.766,0.795,0.766,0.741,0.759,0.826,0.805,0.783,(6.8725)+(-0.1125)His+(-0.0069)Ala+(-0.0385)Cit+(0.0031)Arg+(0.0090)Pro+(0.0153)Leu;0.766,0.811,0.792,0.809,0.797,0.780,0.748,0.783,(6.1597)+(-0.0007)Gly+(-0.0138)Arg+(0.0070)Pro+(-0.0128)Tyr+(0.0047)Lys+(-0.1447)Trp;0.766,0.804,0.694,0.696,0.654,0.782,0.711,0.711,(0.9819)+(0.0276)Ser+(-0.0018)Gln+(-0.0466)Tyr+(-0.0140)Lys+(0.1513)Ile+(-0.0730)Leu;0.766,0.807,0.777,0.760,0.766,0.841,0.797,0.791,(2.6809)+(0.0060)Gly+(-0.0101)Ala+(-0.0965)Cit+(0.0098)Arg+(-0.2109)Met+(0.0794)Ile;0.765,0.792,0.766,0.741,0.758,0.821,0.810,0.783,(7.0415)+(-0.1134)His+(-0.0037)Ala+(-0.0280)Cit+(0.0035)Arg+(-0.0166)Val+(0.0432)Leu;0.765,0.799,0.740,0.735,0.757,0.809,0.666,0.742,(1.3261)+(0.0454)Ser+(-0.0057)Gly+(0.0101)Thr+(-0.0689)Cit+(0.0113)Pro+(-0.3143)Met;0.765,0.803,0.749,0.754,0.783,0.843,0.602,0.745,(1.8655)+(0.0305)Ser+(0.0055)Thr+(-0.0973)Cit+(-0.0056)Val+(-0.2491)Met+(0.0443)Orn;0.765,0.800,0.745,0.703,0.773,0.820,0.741,0.759,(6.3796)+(-0.1204)His+(-0.0689)Cit+(0.0038)Arg+(0.0511)Orn+(-0.0064)Lys+(0.0090)Leu;0.765,0.797,0.758,0.742,0.740,0.811,0.798,0.773,(6.6596)+(-0.1196)His+(-0.0055)Ala+(0.0089)Pro+(-0.0159)Tyr+(0.0034)Lys+(0.0129)Leu;0.765,0.793,0.732,0.714,0.746,0.806,0.698,0.741,(6.3049)+(0.0028)Gly+(-0.1259)His+(0.0138)Thr+(-0.0360)Cit+(0.0042)Pro+(-0.0013)Lys;0.765,0.798,0.778,0.765,0.771,0.826,0.788,0.788,(7.1497)+(-0.0996)His+(-0.0053)Ala+(-0.0306)Cit+(0.0126)Pro+(-0.1004)Met+(0.0102)Lys;0.765,0.804,0.733,0.735,0.676,0.828,0.778,0.754,(0.6030)+(0.0404)Ser+(-0.1338)Asn+(-0.0085)Ala+(-0.0349)Tyr+(0.0104)Orn+(0.0549)Ile;0.765,0.803,0.759,0.743,0.768,0.814,0.743,0.767,(7.1200)+(-0.0175)Asn+(-0.1128)His+(-0.0076)Arg+(-0.0158)Tyr+(-0.0018)Val+(0.0421)Orn;0.765,0.798,0.757,0.74

6,0.768,0.817,0.721,0.763,(7.5811)+(-0.0379)Asn+(-0.1172)His+(0.0219)Thr+(-0.0272)Cit+(-0.0072)Arg+(0.0001)Val;0.765,0.796,0.711,0.687,0.676,0.804,0.781,0.737,(0.6656)+(-0.0998)Cit+(-0.0405)Val+(0.0323)Orn+(0.1760)Ile+(-0.0476)Leu+(0.0380)Phe;0.765,0.801,0.731,0.704,0.750,0.804,0.714,0.743,(5.8400)+(0.0031)Gly+(-0.1306)His+(-0.0127)Arg+(0.0036)Pro+(0.0314)Orn+(0.0024)Lys;0.765,0.800,0.766,0.788,0.710,0.808,0.793,0.775,(3.0130)+(-0.1051)Asn+(0.0043)Gln+(0.0034)Thr+(-0.0473)Tyr+(0.1479)Ile+(-0.0797)Leu;0.765,0.790,0.766,0.742,0.759,0.819,0.807,0.782,(7.0734)+(-0.1138)His+(-0.0035)Ala+(-0.0250)Cit+(-0.0169)Val+(0.0017)Lys+(0.0424)Leu;0.765,0.797,0.763,0.737,0.762,0.808,0.800,0.777,(6.9169)+(-0.1019)His+(0.0080)Pro+(0.0082)Tyr+(-0.0262)Val+(-0.1435)Met+(0.0550)Leu;0.765,0.794,0.755,0.746,0.745,0.829,0.750,0.767,(6.4918)+(0.0042)Gly+(-0.1089)His+(-0.0062)Ala+(-0.0404)Cit+(0.0110)Pro+(0.0045)Lys;0.765,0.793,0.765,0.741,0.758,0.823,0.802,0.781,(6.9004)+(-0.1128)His+(-0.0068)Ala+(-0.0359)Cit+(0.0091)Pro+(0.0015)Lys+(0.0142)Leu;0.765,0.802,0.712,0.707,0.651,0.797,0.792,0.737,(3.0864)+(0.0055)Thr+(-0.0424)Tyr+(-0.0506)Val+(0.0225)Orn+(-0.0157)Lys+(0.1566)Ile;0.765,0.800,0.753,0.743,0.766,0.808,0.716,0.758,(6.3640)+(0.0051)Gly+(-0.1089)His+(-0.0328)Cit+(0.0093)Pro+(-0.1293)Met+(0.0098)Lys;0.765,0.808,0.727,0.748,0.722,0.752,0.662,0.721,(-3.4431)+(0.0445)Ser+(-0.0001)Gln+(-0.0180)Tyr+(-0.3499)Met+(-0.0040)Leu+(0.1161)Phe;0.765,0.802,0.749,0.763,0.704,0.793,0.775,0.759,(4.0397)+(-0.0864)Asn+(0.0033)Thr+(-0.0497)Tyr+(0.0177)Orn+(0.1465)Ile+(-0.0804)Leu;0.765,0.798,0.704,0.671,0.677,0.809,0.774,0.733,(2.8177)+(0.0008)Gly+(-0.0033)Gln+(-0.0895)Cit+(-0.0539)Val+(0.0415)Orn+(0.1479)Ile;0.765,0.810,0.773,0.770,0.752,0.832,0.785,0.785,(4.1568)+(-0.0655)Cit+(-0.0129)Tyr+(-0.1908)Met+(0.0023)Lys+(0.1712)Ile+(-0.0815)Leu;0.765,0.797,0.761,0.755,0.760,0.828,0.731,0.769,(7.2131)+(-0.1160)His+(0.0191)Thr+(-0.0028)Ala+(-0.033

8)Cit+(-0.0125)Tyr+(0.0015)Lys;0.765,0.795,0.763,0.747,0.752,0.804,0.800,0.776,(7.3102)+(-0.0380)Asn+(-0.1122)His+(-0.0072)Tyr+(-0.0227)Val+(0.0049)Lys+(0.0459)Leu;0.765,0.813,0.822,0.844,0.819,0.807,0.782,0.813,(5.0264)+(-0.0021)Gly+(0.0053)Gln+(-0.0149)Arg+(-0.0071)Tyr+(-0.0004)Val+(-0.1445)Trp;0.765,0.804,0.735,0.775,0.711,0.747,0.671,0.726,(-0.2213)+(0.0432)Ser+(-0.1721)Asn+(-0.0633)Tyr+(0.0195)Orn+(-0.0189)Leu+(0.1042)Phe;0.765,0.801,0.752,0.743,0.755,0.805,0.735,0.759,(6.1386)+(0.0040)Gly+(-0.1154)His+(0.0089)Pro+(-0.0004)Val+(-0.1304)Met+(0.0101)Lys;0.765,0.804,0.764,0.758,0.737,0.820,0.797,0.778,(3.1942)+(-0.0158)Asn+(-0.2273)Met+(0.0119)Orn+(-0.0005)Lys+(0.1627)Ile+(-0.0811)Leu;0.765,0.802,0.786,0.785,0.801,0.808,0.738,0.783,(2.9789)+(-0.0705)Asn+(-0.0850)Cit+(-0.0179)Val+(-0.1794)Met+(0.0534)Orn+(0.1027)Phe;0.765,0.799,0.750,0.718,0.775,0.822,0.731,0.761,(6.6558)+(-0.1133)His+(-0.0663)Cit+(-0.0005)Arg+(-0.0021)Val+(0.0543)Orn+(-0.0023)Lys;0.765,0.799,0.745,0.738,0.755,0.806,0.699,0.749,(7.0160)+(-0.0418)Asn+(0.0026)Gly+(-0.1255)His+(0.0198)Thr+(-0.0141)Arg+(0.0046)Lys;0.765,0.799,0.744,0.742,0.754,0.812,0.680,0.747,(7.1731)+(0.0017)Gly+(-0.1200)His+(0.0207)Thr+(-0.0266)Cit+(-0.0099)Arg+(-0.0153)Tyr;0.765,0.799,0.743,0.702,0.773,0.817,0.735,0.757,(6.3796)+(-0.1198)His+(-0.0651)Cit+(0.0016)Pro+(0.0499)Orn+(-0.0053)Lys+(0.0074)Leu;0.765,0.807,0.807,0.813,0.801,0.805,0.805,0.806,(5.8476)+(-0.0001)Gly+(-0.0048)Ala+(0.0001)Tyr+(-0.0002)Lys+(0.0147)Leu+(-0.1470)Trp;0.765,0.803,0.739,0.723,0.748,0.795,0.723,0.747,(6.5417)+(-0.1223)His+(-0.0118)Arg+(0.0055)Pro+(-0.0281)Tyr+(0.0362)Orn+(0.0049)Lys;0.765,0.793,0.770,0.762,0.753,0.819,0.790,0.781,(7.2824)+(-0.0127)Asn+(-0.1061)His+(-0.0049)Ala+(0.0103)Pro+(-0.0104)Tyr+(0.0014)Val;0.765,0.811,0.816,0.831,0.819,0.795,0.782,0.807,(4.6368)+(-0.0016
)Gly+(0.0047)Gln+(-0.0167)Arg+(-0.0000)Lys+(0.0076)Leu+(-0.1561)Trp;0

.765,0.805,0.766,0.746,0.778,0.824,0.752,0.775,(6.8856)+(-0.0023)Asn+(-0.1128)His+(-0.0060)Arg+(-0.0011)Val+(-0.0653)Met+(0.0398)Orn;0.765,0.809,0.684,0.658,0.706,0.812,0.613,0.697,(0.9585)+(0.0324)Ser+(-0.1158)Cit+(-0.0487)Tyr+(0.0452)Orn+(-0.0284)Lys+(0.0522)Ile;0.765,0.803,0.739,0.741,0.724,0.820,0.708,0.748,(3.7484)+(-0.0896)Cit+(-0.0152)Arg+(-0.0527)Tyr+(0.0425)Orn+(0.1591)Ile+(-0.0880)Leu;0.765,0.800,0.761,0.758,0.762,0.828,0.718,0.766,(7.5447)+(-0.1150)His+(0.0219)Thr+(-0.0026)Ala+(-0.0276)Cit+(-0.0088)Arg+(-0.0120)Tyr;0.765,0.803,0.763,0.778,0.736,0.835,0.727,0.769,(0.9344)+(0.0415)Ser+(-0.0852)Asn+(0.0021)Gln+(-0.0064)Ala+(0.0144)Pro+(-0.1964)Met;0.765,0.807,0.757,0.740,0.770,0.826,0.725,0.765,(6.5809)+(0.0027)Gly+(-0.1160)His+(-0.0070)Arg+(-0.0029)Tyr+(-0.0661)Met+(0.0388)Orn;0.765,0.805,0.765,0.781,0.733,0.823,0.748,0.771,(-0.4048)+(0.0452)Ser+(-0.1545)Asn+(0.0006)Thr+(-0.0076)Ala+(-0.0177)Arg+(0.0725)Phe;0.765,0.804,0.747,0.790,0.718,0.751,0.694,0.738,(-0.6791)+(0.0429)Ser+(-0.1759)Asn+(0.0021)Gln+(-0.0607)Tyr+(-0.0162)Leu+(0.1053)Phe;0.765,0.800,0.772,0.746,0.771,0.815,0.809,0.785,(6.8159)+(-0.1103)His+(0.0122)Tyr+(-0.0254)Val+(-0.1448)Met+(0.0077)Lys+(0.0549)Leu;0.765,0.804,0.782,0.807,0.800,0.767,0.688,0.765,(2.0128)+(-0.0723)Asn+(0.0370)Thr+(-0.0170)Arg+(-0.0190)Val+(-0.2979)Met+(0.1312)Phe;0.765,0.796,0.740,0.738,0.747,0.802,0.686,0.743,(7.0066)+(0.0010)Gly+(-0.1274)His+(0.0202)Thr+(-0.0165)Arg+(-0.0195)Tyr+(0.0049)Lys;0.765,0.801,0.761,0.752,0.749,0.786,0.789,0.769,(-0.3087)+(0.0248)Thr+(-0.0084)Ala+(-0.3760)Met+(-0.0108)Orn+(0.0571)Ile+(0.0788)Phe;0.765,0.800,0.772,0.763,0.759,0.818,0.788,0.782,(6.8276)+(-0.1071)His+(-0.0046)Ala+(0.0120)Pro+(-0.0030)Tyr+(-0.1025)Met+(0.0104)Lys;0.765,0.799,0.750,0.712,0.776,0.819,0.745,0.763,(6.5841)+(-0.0274)Asn+(-0.1166)His+(-0.0649)Cit+(0.0020)Arg+(0.0491)Orn+(0.0058)Leu;0.765,0.795,0.760,0.753,0.751,0.833,0.747,0.771,(6.8043)+(0.0043)Gly+(-0.1

038)His+(-0.0059)Ala+(-0.0403)Cit+(-0.0002)Arg+(0.0113)Pro;0.765,0.794,0.766,0.758,0.749,0.815,0.789,0.778,(7.1017)+(-0.0236)Asn+(-0.1092)His+(-0.0050)Ala+(0.0106)Pro+(-0.0150)Tyr+(0.0078)Lys;0.765,0.803,0.773,0.793,0.738,0.822,0.758,0.778,(-0.9010)+(0.0436)Ser+(-0.1625)Asn+(0.0022)Gln+(-0.0076)Ala+(-0.0190)Arg+(0.0711)Phe;0.765,0.796,0.766,0.749,0.742,0.840,0.806,0.784,(3.2789)+(-0.0812)Asn+(0.0066)Gly+(-0.0137)Ala+(-0.0968)Cit+(0.0085)Pro+(0.0572)Ile;0.765,0.804,0.753,0.761,0.732,0.834,0.715,0.760,(1.2421)+(0.0425)Ser+(-0.0835)Asn+(-0.0069)Ala+(0.0138)Pro+(-0.1951)Met+(0.0169)Orn;0.765,0.800,0.771,0.761,0.771,0.786,0.789,0.777,(-1.1803)+(0.0019)Gly+(0.0047)Gln+(-0.3513)Met+(-0.0152)Lys+(0.0508)Ile+(0.0767)Phe;0.765,0.807,0.757,0.760,0.791,0.782,0.657,0.748,(0.7671)+(0.0261)Thr+(-0.0899)Cit+(-0.0163)Val+(-0.3503)Met+(0.0381)Orn+(0.1189)Phe;0.765,0.805,0.770,0.773,0.695,0.829,0.880,0.794,(0.7836)+(-0.0103)Thr+(-0.0125)Ala+(0.0029)Pro+(0.1692)Ile+(-0.0948)Leu+(0.0492)Phe;0.765,0.793,0.770,0.758,0.755,0.816,0.798,0.782,(7.0103)+(-0.0265)Asn+(-0.1104)His+(-0.0053)Ala+(0.0100)Pro+(-0.0012)Val+(0.0068)Lys;0.765,0.813,0.763,0.766,0.738,0.838,0.754,0.774,(2.3906)+(0.0462)Ser+(-0.1092)Asn+(-0.0438)Val+(-0.1909)Met+(0.0006)Lys+(0.0792)Leu;0.765,0.797,0.772,0.758,0.743,0.826,0.829,0.789,(2.7258)+(0.0026)Gly+(-0.0098)Ala+(0.0090)Pro+(-0.2269)Met+(-0.0082)Lys+(0.0653)Ile;0.765,0.796,0.731,0.716,0.744,0.797,0.693,0.738,(6.3383)+(0.0022)Gly+(-0.1328)His+(0.0160)Thr+(-0.0161)Arg+(0.0040)Pro+(0.0024)Lys;0.765,0.800,0.767,0.748,0.781,0.867,0.721,0.779,(2.5389)+(0.0323)Ser+(-0.0042)Gly+(-0.0090)Ala+(-0.1211)Cit+(0.0610)Orn+(-0.0201)Lys;0.765,0.796,0.755,0.772,0.716,0.822,0.742,0.763,(2.4449)+(0.0044)Gln+(-0.0675)Cit+(-0.0186)Arg+(-0.0489)Tyr+(0.1684)Ile+(-0.0885)Leu;0.765,0.792,0.739,0.718,0.740,0.805,0.750,0.753,(6.3300)+(0.0039)Gly+(-0.1220)His+(-0.0278)Cit+(-0.0003)Arg+(-0.0170)Val+(0.0412)Leu;0.765,0.804,0.756,0.

766,0.734,0.832,0.719,0.763,(1.5044)+(0.0433)Ser+(-0.0763)Asn+(-0.006
6)Ala+(0.0150)Pro+(-0.1901)Met+(-0.0006)Lys;0.765,0.800,0.759,0.746,0
.775,0.868,0.682,0.768,(2.4009)+(0.0268)Ser+(-0.0093)Ala+(-0.1263)Cit
+(-0.0007)Arg+(0.0620)Orn+(-0.0193)Lys;0.765,0.799,0.759,0.748,0.774,
0.869,0.680,0.768,(2.4457)+(0.0264)Ser+(-0.0091)Ala+(-0.1259)Cit+(-0.
0010)Val+(0.0624)Orn+(-0.0191)Lys;0.765,0.804,0.742,0.724,0.685,0.841
,0.840,0.773,(0.3078)+(0.0475)Ser+(-0.1441)Asn+(-0.0047)Gly+(-0.0118)
Ala+(0.0070)Pro+(0.0456)Ile;0.765,0.807,0.667,0.636,0.645,0.778,0.715
,0.694,(-1.4392)+(0.0353)Ser+(-0.0037)Gln+(-0.0242)Lys+(0.1462)Ile+(-
0.0838)Leu+(0.0536)Phe;0.765,0.793,0.768,0.760,0.768,0.832,0.741,0.77
5,(7.1482)+(-0.0140)Asn+(0.0049)Gly+(-0.1102)His+(-0.0034)Ala+(-0.039
0)Cit+(0.0059)Val;0.765,0.808,0.738,0.770,0.734,0.722,0.670,0.724,(0.
2765)+(0.0298)Thr+(0.0116)Pro+(-0.0368)Tyr+(-0.0186)Val+(-0.3717)Met+
(0.1380)Phe;0.765,0.797,0.775,0.774,0.742,0.845,0.798,0.789,(3.7808)+
(-0.0694)Asn+(0.0055)Gly+(-0.0106)Ala+(-0.0886)Cit+(-0.0223)Tyr+(0.06
52)Ile;0.765,0.801,0.754,0.738,0.763,0.807,0.739,0.762,(6.9605)+(-0.0
194)Asn+(-0.1190)His+(-0.0099)Arg+(-0.0215)Tyr+(0.0390)Orn+(0.0057)Ly
s;0.765,0.807,0.809,0.821,0.815,0.791,0.781,0.802,(6.8081)+(-0.0543)A
sn+(-0.0068)Arg+(-0.0026)Tyr+(0.0061)Lys+(0.0074)Leu+(-0.1425)Trp;0.7
65,0.801,0.746,0.715,0.761,0.805,0.754,0.759,(6.3904)+(-0.0187)Asn+(-
0.1263)His+(-0.0073)Arg+(0.0026)Pro+(0.0319)Orn+(0.0056)Leu;0.765,0.7
96,0.734,0.737,0.674,0.804,0.802,0.754,(3.9915)+(-0.0221)Arg+(0.0007)
Pro+(-0.0320)Tyr+(-0.0521)Val+(-0.0040)Lys+(0.1624)Ile;0.765,0.795,0.
738,0.727,0.750,0.804,0.697,0.744,(6.5881)+(0.0020)Gly+(-0.1329)His+(
0.0174)Thr+(-0.0156)Arg+(0.0004)Val+(0.0027)Lys;0.765,0.795,0.692,0.6
70,0.622,0.783,0.834,0.727,(-1.2977)+(0.0304)Ser+(-0.0096)Gly+(-0.045
8)Val+(0.1815)Ile+(-0.0425)Leu+(0.0284)Phe;0.765,0.800,0.760,0.741,0.
771,0.816,0.752,0.770,(6.8905)+(-0.0282)Asn+(-0.1161)His+(-0.0107)Arg

+(-0.0046)Val+(0.0383)Orn+(0.0056)Lys;0.765,0.798,0.772,0.766,0.751,0.801,0.810,0.782,(-0.1458)+(0.0037)Gly+(-0.0083)Ala+(-0.3045)Met+(-0.0006)Orn+(0.0570)Ile+(0.0721)Phe;0.765,0.797,0.742,0.736,0.749,0.810,0.695,0.747,(6.8303)+(0.0017)Gly+(-0.1213)His+(0.0176)Thr+(-0.0336)Cit+(-0.0161)Tyr+(0.0010)Lys;0.765,0.794,0.737,0.734,0.684,0.809,0.806,0.758,(3.4071)+(-0.0257)Arg+(-0.0029)Pro+(-0.0441)Val+(-0.0041)Lys+(0.1920)Ile+(-0.0360)Leu;0.765,0.795,0.719,0.719,0.653,0.806,0.797,0.744,(3.2951)+(0.0084)Thr+(-0.0019)Pro+(-0.0387)Tyr+(-0.0500)Val+(-0.0139)Lys+(0.1613)Ile;0.765,0.814,0.749,0.738,0.735,0.852,0.731,0.764,(0.3008)+(0.0373)Ser+(0.0159)Tyr+(-0.0454)Val+(-0.3296)Met+(0.0245)Orn+(0.0773)Leu;0.765,0.798,0.745,0.709,0.773,0.819,0.730,0.758,(6.4504)+(-0.1163)His+(-0.0663)Cit+(0.0003)Arg+(0.0026)Pro+(0.0514)Orn+(-0.0037)Lys;0.765,0.805,0.806,0.794,0.785,0.850,0.847,0.819,(1.4265)+(0.0062)Gln+(-0.0099)Ala+(-0.0921)Cit+(0.0033)Arg+(-0.2286)Met+(0.0743)Ile;0.765,0.805,0.725,0.720,0.763,0.819,0.593,0.724,(0.8885)+(0.0371)Ser+(0.0045)Thr+(-0.0977)Cit+(0.0094)Pro+(-0.3079)Met+(0.0328)Orn;0.765,0.802,0.763,0.749,0.776,0.869,0.698,0.773,(2.2833)+(0.0292)Ser+(-0.0061)Thr+(-0.0090)Ala+(-0.1254)Cit+(0.0635)Orn+(-0.0179)Lys;0.765,0.805,0.734,0.730,0.693,0.841,0.755,0.755,(0.3292)+(0.0304)Ser+(-0.0121)Ala+(-0.0865)Cit+(-0.0082)Arg+(-0.0344)Tyr+(0.0681)Ile;0.765,0.804,0.765,0.780,0.739,0.843,0.722,0.771,(2.4898)+(0.0420)Ser+(-0.0857)Asn+(-0.0056)Ala+(0.0169)Pro+(-0.0081)Val+(-0.1657)Met;0.765,0.800,0.762,0.754,0.786,0.830,0.684,0.763,(0.9711)+(0.0416)Ser+(-0.0061)Gly+(0.0014)Gln+(-0.0934)Cit+(-0.2603)Met+(0.0393)Orn;0.765,0.800,0.745,0.713,0.769,0.817,0.726,0.756,(6.4657)+(-0.1143)His+(-0.0619)Cit+(-0.0031)Arg+(0.0036)Pro+(-0.0038)Val+(0.0513)Orn;0.765,0.793,0.746,0.721,0.741,0.796,0.784,0.761,(6.5880)+(-0.1217)His+(-0.0060)Arg+(0.0051)Pro+(-0.0215)Val+(0.0021)Lys+(0.0415)Leu;0.765,0.790,0.708,0.690,0.656,0.815,0.78

9,0.737,(0.2443)+(0.0257)Ser+(-0.0113)Thr+(-0.0626)Cit+(-0.0035)Pro+(-0.0489)Val+(0.1515)Ile;0.765,0.805,0.779,0.788,0.745,0.835,0.787,0.789,(1.6252)+(0.0061)Gln+(-0.0243)Arg+(-0.2506)Met+(0.0037)Lys+(0.1776)Ile+(-0.0890)Leu;0.765,0.802,0.721,0.747,0.659,0.746,0.764,0.729,(0.3923)+(-0.0057)Thr+(-0.0769)Tyr+(0.0054)Orn+(0.1616)Ile+(-0.1003)Leu+(0.0804)Phe;0.765,0.799,0.783,0.797,0.784,0.848,0.699,0.782,(3.0167)+(0.0409)Ser+(-0.0803)Asn+(-0.0030)Ala+(-0.0662)Cit+(0.0031)Arg+(-0.1304)Met;0.765,0.795,0.761,0.755,0.750,0.834,0.745,0.771,(6.8862)+(0.0042)Gly+(-0.1023)His+(-0.0057)Ala+(-0.0399)Cit+(0.0116)Pro+(-0.0048)Tyr;0.765,0.795,0.736,0.720,0.751,0.809,0.698,0.744,(6.4349)+(0.0028)Gly+(-0.1287)His+(0.0154)Thr+(-0.0371)Cit+(0.0028)Val+(-0.0019)Lys;0.765,0.789,0.736,0.729,0.680,0.811,0.818,0.760,(2.9116)+(-0.0006)Gly+(0.0004)Gln+(-0.0289)Arg+(-0.0018)Pro+(-0.0567)Val+(0.1638)Ile;0.764,0.792,0.740,0.719,0.740,0.805,0.747,0.753,(6.4660)+(0.0038)Gly+(-0.1202)His+(-0.0278)Cit+(-0.0061)Tyr+(-0.0165)Val+(0.0411)Leu;0.764,0.807,0.728,0.707,0.772,0.754,0.674,0.727,(0.0176)+(0.0287)Thr+(-0.0965)Cit+(-0.4187)Met+(0.0127)Orn+(0.0426)Ile+(0.0804)Phe;0.764,0.800,0.700,0.705,0.646,0.785,0.740,0.719,(0.1627)+(0.0315)Ser+(-0.0015)Gln+(-0.0175)Thr+(-0.0423)Tyr+(0.1630)Ile+(-0.0847)Leu;0.764,0.798,0.733,0.740,0.753,0.824,0.608,0.731,(1.7996)+(0.0363)Ser+(0.0099)Thr+(-0.0714)Cit+(0.0131)Pro+(-0.0056)Val+(-0.2986)Met;0.764,0.793,0.740,0.719,0.753,0.805,0.725,0.751,(6.6399)+(-0.1262)His+(0.0156)Thr+(-0.0323)Cit+(0.0036)Pro+(0.0006)Val+(-0.0018)Lys;0.764,0.795,0.726,0.713,0.675,0.794,0.820,0.751,(1.1547)+(-0.0056)Thr+(-0.0726)Cit+(-0.0381)Val+(0.1854)Ile+(-0.0520)Leu+(0.0467)Phe;0.764,0.799,0.742,0.766,0.703,0.746,0.757,0.743,(-0.7791)+(0.0536)Ser+(-0.1710)Asn+(-0.0073)Gly+(0.0023)Gln+(-0.0709)Tyr+(0.0869)Phe;0.764,0.809,0.814,0.831,0.814,0.796,0.781,0.805,(4.7662)+(-0.0019)Gly+(0.0050)Gln+(-0.0153)Arg+(-0.0106)Tyr+(0.0086)L

eu+(-0.1521)Trp;0.764,0.809,0.718,0.728,0.654,0.790,0.774,0.736,(0.76
10)+(0.0327)Ser+(-0.0104)Gly+(-0.0008)Pro+(-0.0617)Tyr+(0.1549)Ile+(-
0.0819)Leu;0.764,0.797,0.778,0.751,0.774,0.852,0.806,0.796,(3.9477)+(
-0.0891)Asn+(0.0077)Thr+(-0.0129)Ala+(-0.1174)Cit+(0.0420)Orn+(0.0455
)Ile;0.764,0.806,0.793,0.801,0.808,0.787,0.744,0.785,(5.7978)+(-0.000
8)Gly+(-0.0157)Arg+(0.0224)Orn+(0.0002)Lys+(0.0047)Leu+(-0.1492)Trp;0
.764,0.800,0.798,0.811,0.793,0.834,0.749,0.796,(1.3817)+(0.0454)Ser+(
-0.0984)Asn+(-0.0053)Gly+(0.0
059)Gln+(-0.0663)Cit+(-0.1752)Met;0.764,0.796,0.777,0.792,0.770,0.769
,0.757,0.772,(2.1775)+(-0.0652)Asn+(0.0097)Pro+(-0.0208)Val+(-0.2457)
Met+(0.0284)Orn+(0.1063)Phe;0.764,0.794,0.762,0.741,0.749,0.818,0.801
,0.777,(6.6440)+(-0.1211)His+(-0.0059)Ala+(-0.0052)Arg+(0.0083)Pro+(0
.0033)Lys+(0.0117)Leu;0.764,0.792,0.738,0.729,0.688,0.819,0.810,0.761
,(2.9048)+(0.0007)Gln+(-0.0440)Cit+(-0.0212)Arg+(-0.0020)Pro+(-0.0538
)Val+(0.1606)Ile;0.764,0.809,0.775,0.766,0.757,0.836,0.790,0.787,(3.9
888)+(-0.0658)Cit+(0.0003)Pro+(-0.2123)Met+(0.0017)Lys+(0.1702)Ile+(-
0.0814)Leu;0.764,0.805,0.749,0.778,0.706,0.793,0.730,0.752,(-0.1710)+
(0.0428)Ser+(-0.1645)Asn+(0.0048)Thr+(-0.0058)Ala+(-0.0550)Tyr+(0.094
6)Phe;0.764,0.803,0.755,0.766,0.732,0.832,0.717,0.762,(1.5584)+(0.043
1)Ser+(-0.0773)Asn+(-0.0065)Ala+(0.0151)Pro+(-0.0036)Tyr+(-0.1859)Met
;0.764,0.813,0.743,0.738,0.726,0.851,0.714,0.757,(0.7862)+(0.0369)Ser
+(-0.0008)Gln+(-0.0434)Val+(-0.2983)Met+(0.0268)Orn+(0.0749)Leu;0.764
,0.809,0.758,0.754,0.732,0.819,0.777,0.770,(2.8404)+(0.0127)Thr+(-0.0
000)Pro+(-0.2801)Met+(-0.0022)Lys+(0.1642)Ile+(-0.0778)Leu;0.764,0.80
5,0.715,0.694,0.655,0.801,0.833,0.746,(1.5364)+(0.0008)Thr+(-0.0544)V
al+(0.0166)Orn+(-0.0207)Lys+(0.1533)Ile+(0.0292)Phe;0.764,0.795,0.772
,0.746,0.771,0.818,0.807,0.786,(7.0829)+(-0.0015)Asn+(-0.1065)His+(0.
0142)Tyr+(-0.0246)Val+(-0.1229)Met+(0.0560)Leu;0.764,0.803,0.761,0.75

8,0.732,0.818,0.788,0.774,(3.1001)+(-0.0152)Asn+(0.0018)Gly+(0.0003)Pro+(-0.2288)Met+(0.1653)Ile+(-0.0802)Leu;0.764,0.806,0.808,0.816,0.806,0.805,0.794,0.805,(6.0611)+(0.0002)Gly+(-0.0044)Ala+(-0.0092)Arg+(0.0025)Lys+(0.0138)Leu+(-0.1464)Trp;0.764,0.804,0.762,0.759,0.775,0.825,0.697,0.764,(4.1539)+(0.0008)Gly+(0.0333)Thr+(-0.0585)Cit+(-0.0426)Val+(-0.3333)Met+(0.0767)Leu;0.764,0.800,0.758,0.745,0.774,0.868,0.681,0.767,(2.4232)+(0.0269)Ser+(-0.0001)Gln+(-0.0093)Ala+(-0.1268)Cit+(0.0621)Orn+(-0.0195)Lys;0.764,0.800,0.769,0.763,0.751,0.846,0.764,0.781,(2.9685)+(0.0434)Ser+(-0.1222)Asn+(-0.0027)Gly+(-0.0101)Ala+(-0.0754)Cit+(0.0144)Pro;0.764,0.805,0.712,0.684,0.738,0.803,0.667,0.723,(0.7261)+(0.0411)Ser+(-0.1665)Asn+(-0.1016)Cit+(-0.0026)Pro+(0.0327)Orn+(0.0303)Ile;0.764,0.804,0.764,0.758,0.779,0.826,0.703,0.767,(4.5354)+(0.0359)Thr+(-0.0578)Cit+(-0.0417)Val+(-0.3213)Met+(-0.0060)Lys+(0.0778)Leu;0.764,0.799,0.754,0.745,0.757,0.808,0.734,0.761,(6.5455)+(0.0013)Asn+(0.0040)Gly+(-0.1112)His+(0.0084)Pro+(0.0017)Val+(-0.0989)Met;0.764,0.795,0.774,0.742,0.768,0.844,0.820,0.793,(3.9292)+(-0.0765)Asn+(-0.0141)Ala+(-0.1158)Cit+(0.0066)Pro+(0.0432)Orn+(0.0416)Ile;0.764,0.803,0.744,0.722,0.754,0.800,0.741,0.754,(6.5715)+(-0.1278)His+(-0.0085)Arg+(-0.0239)Tyr+(0.0365)Orn+(0.0024)Lys+(0.0089)Leu;0.764,0.795,0.792,0.803,0.772,0.791,0.806,0.793,(-0.2715)+(0.0045)Gln+(-0.0079)Ala+(0.0122)Pro+(-0.2973)Met+(-0.0078)Lys+(0.0935)Phe;0.764,0.807,0.749,0.755,0.705,0.824,0.770,0.764,(-0.2843)+(0.0466)Ser+(-0.1508)Asn+(-0.0100)Ala+(0.0104)Pro+(-0.0134)Lys+(0.0713)Phe;0.764,0.805,0.708,0.703,0.689,0.815,0.683,0.722,(-0.0329)+(0.0326)Ser+(-0.0388)Arg+(0.0099)Orn+(-0.0112)Lys+(0.1641)Ile+(-0.0901)Leu;0.764,0.797,0.762,0.738,0.762,0.808,0.790,0.775,(7.1939)+(-0.0982)His+(-0.0188)Cit+(0.0084)Pro+(-0.0241)Val+(-0.1276)Met+(0.0522)Leu;0.764,0.809,0.775,0.766,0.757,0.837,0.791,0.788,(4.1043)+(-0.0652)Cit+(-0.0002)Arg+(0.0003)Pro+(-0.2

068)Met+(0.1697)Ile+(-0.0805)Leu;0.764,0.802,0.765,0.728,0.767,0.859,0.791,0.786,(3.7866)+(0.0070)Thr+(-0.0135)Ala+(-0.1318)Cit+(0.0518)Orn+(-0.0242)Lys+(0.0625)Ile;0.764,0.811,0.754,0.750,0.746,0.828,0.724,0.762,(3.6451)+(0.0303)Thr+(0.0097)Pro+(-0.0478)Val+(-0.3516)Met+(-0.0035)Lys+(0.0778)Leu;0.764,0.801,0.776,0.780,0.755,0.849,0.755,0.785,(2.1509)+(0.0370)Ser+(-0.1383)Asn+(0.0035)Gln+(-0.0100)Ala+(-0.0849)Cit+(0.0137)Pro;0.764,0.792,0.727,0.715,0.665,0.806,0.828,0.754,(2.8386)+(-0.0005)Gln+(-0.0049)Pro+(-0.0441)Val+(-0.0120)Lys+(0.1844)Ile+(-0.0291)Leu;0.764,0.790,0.755,0.731,0.751,0.802,0.794,0.770,(7.3382)+(-0.0360)Asn+(-0.1062)His+(-0.0207)Cit+(0.0057)Pro+(-0.0236)Val+(0.0459)Leu;0.764,0.807,0.748,0.741,0.790,0.847,0.606,0.746,(1.8489)+(0.0352)Ser+(-0.1043)Cit+(-0.0007)Arg+(-0.2095)Met+(0.0495)Orn+(-0.0107)Lys;0.764,0.804,0.734,0.773,0.712,0.746,0.665,0.724,(-0.1153)+(0.0430)Ser+(-0.1736)Asn+(0.0050)Thr+(-0.0631)Tyr+(-0.0165)Leu+(0.1077)Phe;0.764,0.793,0.729,0.710,0.743,0.803,0.698,0.739,(6.1468)+(0.0030)Gly+(-0.1287)His+(0.0132)Thr+(-0.0365)Cit+(0.0038)Pro+(0.0011)Val;0.764,0.800,0.753,0.735,0.769,0.809,0.728,0.760,(6.4206)+(0.0057)Gly+(-0.1193)His+(-0.0343)Cit+(-0.1146)Met+(0.0059)Lys+(0.0199)Leu;0.764,0.806,0.712,0.679,0.739,0.800,0.678,0.724,(0.7348)+(0.0428)Ser+(-0.1671)Asn+(-0.0014)Gly+(-0.0991)Cit+(0.0315)Orn+(0.0261)Ile;0.764,0.801,0.768,0.743,0.795,0.773,0.773,0.771,(1.7058)+(-0.0655)Cit+(0.0022)Pro+(-0.2905)Met+(-0.0116)Lys+(0.0483)Ile+(0.0766)Phe;0.764,0.791,0.733,0.723,0.684,0.817,0.801,0.756,(3.0008)+(0.0011)Gly+(-0.0451)Cit+(-0.0203)Arg+(-0.0019)Pro+(-0.0537)Val+(0.1611)Ile;0.764,0.791,0.662,0.631,0.609,0.772,0.773,0.696,(0.1353)+(0.0292)Ser+(-0.0072)Gln+(-0.0048)Pro+(-0.0581)Val+(0.1594)Ile+(0.0381)Phe;0.764,0.790,0.726,0.730,0.652,0.786,0.826,0.748,(3.5730)+(-0.0030)Gly+(-0.0009)Gln+(-0.0005)Pro+(-0.0443)Tyr+(-0.0514)Val+(0.1561)Ile;0.764,0.810,0.710,0.694,0.725,0.764,0.682,0.

716,(-0.7453)+(0.0474)Ser+(-0.1736)Asn+(-0.0766)Cit+(-0.0095)Arg+(0.0250)Ile+(0.0498)Phe;0.764,0.799,0.788,0.780,0.767,0.806,0.836,0.797,(1.4637)+(-0.0074)Ala+(-0.0152)Tyr+(-0.2429)Met+(-0.0108)Lys+(0.0589)Ile+(0.0750)Phe;0.764,0.797,0.780,0.751,0.776,0.845,0.820,0.798,(3.1254)+(-0.0834)Asn+(-0.0132)Ala+(-0.1150)Cit+(0.0424)Orn+(0.0400)Ile+(0.0305)Phe;0.764,0.796,0.764,0.748,0.774,0.832,0.736,0.772,(4.2460)+(-0.0788)Cit+(0.0083)Pro+(-0.0384)Val+(-0.2421)Met+(0.0510)Orn+(0.0552)Leu;0.764,0.807,0.736,0.721,0.676,0.839,0.826,0.765,(-0.2154)+(0.0454)Ser+(-0.1334)Asn+(-0.0093)Thr+(-0.0116)Ala+(0.0077)Pro+(0.0500)Ile;0.764,0.802,0.778,0.766,0.779,0.783,0.804,0.783,(-1.0016)+(0.0051)Gln+(0.0021)Pro+(-0.3527)Met+(-0.0151)Lys+(0.0473)Ile+(0.0757)Phe;0.764,0.802,0.751,0.763,0.709,0.792,0.778,0.760,(4.1039)+(-0.0768)Asn+(-0.0472)Tyr+(0.0202)Orn+(-0.0027)Lys+(0.1470)Ile+(-0.0797)Leu;0.764,0.806,0.789,0.802,0.799,0.782,0.739,0.780,(6.0160)+(-0.0011)Gly+(-0.0141)Arg+(-0.0122)Tyr+(0.0245)Orn+(0.0057)Leu+(-0.1442)Trp;0.764,0.802,0.777,0.791,0.783,0.822,0.697,0.773,(0.8340)+(0.0410)Ser+(-0.0975)Asn+(0.0053)Gln+(-0.0751)Cit+(-0.1967)Met+(0.0092)Leu;0.764,0.798,0.755,0.743,0.766,0.813,0.719,0.760,(7.4804)+(-0.0399)Asn+(-0.1189)His+(0.0213)Thr+(-0.0258)Cit+(-0.0085)Arg+(0.0026)Lys;0.764,0.796,0.682,0.669,0.623,0.786,0.764,0.710,(1.7649)+(0.0282)Ser+(-0.0047)Gln+(-0.0057)Thr+(-0.0356)Tyr+(-0.0497)Val+(0.1555)Ile;0.764,0.804,0.751,0.748,0.790,0.848,0.609,0.749,(1.4909)+(0.0339)Ser+(0.0014)Gln+(-0.1059)Cit+(-0.2145)Met+(0.0483)Orn+(-0.0113)Lys;0.764,0.801,0.752,0.743,0.754,0.803,0.734,0.759,(6.1443)+(0.0040)Gly+(-0.1157)His+(0.0089)Pro+(-0.0013)Tyr+(-0.1288)Met+(0.0101)Lys;0.764,0.800,0.778,0.766,0.779,0.784,0.805,0.784,(-0.9820)+(0.0052)Gln+(-0.3453)Met+(0.0015)Orn+(-0.0155)Lys+(0.0495)Ile+(0.0744)Phe;0.764,0.802,0.757,0.752,0.729,0.816,0.788,0.771,(2.7522)+(0.0010)Gly+(-0.0003)Pro+(-0.2475)Met+(0.0094)Orn+(0.1663)Ile+(-

0.0817)Leu;0.764,0.799,0.745,0.721,0.757,0.805,0.737,0.755,(6.3409)+(-0.1226)His+(-0.0129)Arg+(0.0044)Pro+(-0.0049)Val+(0.0352)Orn+(0.0038)Lys;0.764,0.797,0.747,0.744,0.726,0.831,0.739,0.760,(3.5665)+(-0.0952)Asn+(0.0053)Gly+(0.0020)Thr+(-0.0823)Cit+(0.1531)Ile+(-0.0811)Leu;0.764,0.794,0.774,0.753,0.771,0.821,0.803,0.787,(7.5073)+(-0.1015)His+(-0.0019)Ala+(-0.0209)Cit+(-0.0200)Val+(-0.0857)Met+(0.0512)Leu;0.764,0.793,0.728,0.717,0.665,0.809,0.828,0.755,(2.6431)+(0.0013)Thr+(-0.0052)Pro+(-0.0443)Val+(-0.0131)Lys+(0.1843)Ile+(-0.0287)Leu;0.764,0.811,0.819,0.841,0.817,0.803,0.777,0.810,(4.9336)+(-0.0021)Gly+(0.0051)Gln+(-0.0167)Arg+(-0.0088)Tyr+(0.0029)Lys+(-0.1476)Trp;0.764,0.800,0.753,0.757,0.783,0.845,0.614,0.750,(1.5711)+(0.0314)Ser+(0.0008)Gln+(-0.0978)Cit+(-0.0056)Val+(-0.2356)Met+(0.0455)Orn;0.764,0.796,0.706,0.685,0.633,0.790,0.856,0.741,(-1.0708)+(0.0370)Ser+(-0.0084)Gly+(-0.0162)Thr+(-0.0544)Val+(0.1457)Ile+(0.0242)Phe;0.764,0.795,0.761,0.752,0.764,0.828,0.731,0.769,(7.2714)+(-0.1195)His+(0.0197)Thr+(-0.0033)Ala+(-0.0274)Cit+(-0.0099)Arg+(0.0024)Lys;0.764,0.795,0.729,0.714,0.664,0.810,0.842,0.758,(2.9313)+(-0.0019)Gly+(0.0052)Thr+(-0.0044)Pro+(-0.0532)Val+(-0.0166)Lys+(0.1642)Ile;0.764,0.808,0.776,0.774,0.752,0.866,0.763,0.789,(3.3067)+(0.0257)Thr+(-0.0037)Ala+(-0.0480)Val+(-0.3079)Met+(0.0250)Orn+(0.0805)Leu;0.764,0.800,0.791,0.783,0.798,0.791,0.796,0.792,(-1.1277)+(-0.0497)Asn+(0.0083)Gln+(-0.0854)Cit+(-0.3214)Met+(0.0422)Ile+(0.0774)Phe;0.764,0.799,0.725,0.720,0.696,0.815,0.735,0.742,(-0.0426)+(0.0388)Ser+(-0.0068)Gly+(0.0003)Gln+(-0.0428)Arg+(0.1693)Ile+(-0.0982)Leu;0.764,0.796,0.771,0.746,0.793,0.829,0.750,0.780,(1.7973)+(0.0057)Gln+(-0.1002)Cit+(-0.2435)Met+(0.0337)Orn+(-0.0164)Lys+(0.0550)Ile;0.764,0.794,0.730,0.701,0.749,0.795,0.720,0.741,(6.4129)+(-0.1366)His+(0.0181)Thr+(-0.0268)Cit+(-0.0089)Arg+(0.0018)Pro+(0.0120)Leu;0.764,0.794,0.766,0.758,0.758,0.824,0.762,0.775,(6.9613)+(-0.014

6)Asn+(0.0034)Gly+(-0.1168)His+(-0.0026)Ala+(-0.0007)Tyr+(0.0039)Val;0.764,0.813,0.696,0.708,0.694,0.728,0.647,0.694,(-3.9915)+(0.0474)Ser+(0.0108)Pro+(-0.0253)Tyr+(-0.3942)Met+(-0.0023)Orn+(0.1146)Phe;0.764,0.803,0.764,0.746,0.775,0.819,0.749,0.772,(6.7130)+(-0.1158)His+(-0.0095)Arg+(-0.0024)Val+(-0.0840)Met+(0.0376)Orn+(0.0077)Lys;0.764,0.806,0.756,0.753,0.727,0.811,0.785,0.769,(3.1340)+(-0.0159)Tyr+(-0.2169)Met+(0.0126)Orn+(-0.0008)Lys+(0.1649)Ile+(-0.0809)Leu;0.764,0.805,0.742,0.736,0.711,0.856,0.741,0.761,(2.8376)+(0.0416)Ser+(-0.1786)Asn+(-0.0493)Val+(0.0370)Orn+(-0.0087)Lys+(0.0731)Leu;0.764,0.802,0.758,0.758,0.726,0.811,0.786,0.770,(3.1243)+(0.0010)Gly+(0.0008)Pro+(-0.0124)Tyr+(-0.2234)Met+(0.1666)Ile+(-0.0802)Leu;0.764,0.802,0.741,0.743,0.782,0.831,0.584,0.735,(1.4516)+(0.0333)Ser+(0.0072)Thr+(-0.0942)Cit+(-0.0076)Arg+(-0.2652)Met+(0.0391)Orn;0.764,0.800,0.785,0.793,0.776,0.783,0.784,0.784,(1.0465)+(0.0032)Gly+(-0.0014)Tyr+(-0.0408)Val+(-0.3333)Met+(0.0578)Leu+(0.1112)Phe;0.764,0.800,0.719,0.699,0.659,0.794,0.846,0.749,(2.3077)+(-0.0007)Gly+(-0.0016)Gln+(-0.0546)Val+(-0.0165)Lys+(0.1569)Ile+(0.0350)Phe;0.76

4,0.797,0.783,0.800,0.784,0.848,0.693,0.781,(3.1249)+(0.0409)Ser+(-0.0794)Asn+(-0.0028)Ala+(-0.0631)Cit+(-0.0008)Val+(-0.1254)Met;0.764,0.794,0.732,0.717,0.748,0.805,0.681,0.738,(6.4873)+(0.0029)Gly+(-0.1262)His+(0.0161)Thr+(-0.0284)Cit+(-0.0105)Arg+(0.0043)Pro;0.764,0.793,0.771,0.759,0.757,0.825,0.795,0.784,(7.2574)+(-0.0125)Asn+(-0.1075)His+(-0.0051)Ala+(-0.0029)Arg+(0.0098)Pro+(0.0008)Val;0.764,0.791,0.740,0.734,0.691,0.815,0.799,0.760,(3.3973)+(-0.0473)Cit+(-0.0189)Arg+(-0.0031)Pro+(-0.0405)Val+(0.1915)Ile+(-0.0409)Leu;0.764,0.803,0.815,0.828,0.810,0.811,0.791,0.810,(6.1247)+(-0.0005)Gly+(-0.0038)Ala+(0.0008)Tyr+(0.0011)Val+(0.0026)Lys+(-0.1409)Trp;0.764,0.805,0.766,0.764,0.756,0.844,0.735,0.775,(1.7609)+(0.0389)Ser+(-0.0032)Ala+(-0.0569)Cit+(-0

.0313)Val+(-0.2493)Met+(0.0655)Leu;0.763,0.798,0.760,0.778,0.719,0.803,0.764,0.766,(4.5322)+(-0.0549)Asn+(-0.0210)Arg+(-0.0435)Tyr+(0.0050)Lys+(0.1624)Ile+(-0.0885)Leu;0.763,0.795,0.721,0.693,0.685,0.816,0.797,0.748,(1.9686)+(0.0003)Gly+(-0.0077)Thr+(-0.0911)Cit+(-0.0522)Val+(0.0406)Orn+(0.1431)Ile;0.763,0.790,0.745,0.718,0.743,0.800,0.784,0.761,(6.6726)+(-0.1185)His+(-0.0225)Cit+(0.0049)Pro+(-0.0201)Val+(0.0000)Lys+(0.0413)Leu;0.763,0.799,0.751,0.731,0.758,0.808,0.747,0.761,(6.3267)+(0.0076)Asn+(0.0044)Gly+(-0.1241)His+(0.0008)Arg+(-0.1067)Met+(0.0213)Leu;0.763,0.798,0.716,0.711,0.699,0.829,0.686,0.731,(0.1711)+(0.0300)Ser+(-0.0641)Cit+(-0.0291)Arg+(-0.0048)Pro+(0.1775)Ile+(-0.0942)Leu;0.763,0.796,0.781,0.767,0.776,0.832,0.791,0.791,(7.5435)+(-0.0955)His+(-0.0054)Ala+(-0.0325)Cit+(0.0117)Pro+(0.0030)Val+(-0.0673)Met;0.763,0.792,0.732,0.721,0.669,0.808,0.836,0.759,(2.8534)+(-0.0012)Gly+(-0.0049)Pro+(-0.0440)Val+(-0.0121)Lys+(0.1841)Ile+(-0.0293)Leu;0.763,0.802,0.738,0.723,0.772,0.765,0.690,0.737,(0.2446)+(-0.0269)Asn+(0.0077)Gly+(-0.0847)Cit+(-0.3147)Met+(0.0475)Ile+(0.0836)Phe;0.763,0.797,0.769,0.744,0.769,0.816,0.803,0.783,(7.1403)+(-0.1043)His+(-0.0255)Cit+(0.0094)Arg+(-0.0217)Val+(-0.1140)Met+(0.0536)Leu;0.763,0.801,0.782,0.787,0.768,0.839,0.757,0.788,(1.6218)+(0.0496)Ser+(-0.0886)Asn+(-0.0066)Gly+(-0.0032)Ala+(-0.1690)Met+(0.0241)Orn;0.763,0.790,0.709,0.711,0.639,0.784,0.796,0.732,(3.3291)+(-0.0022)Gln+(0.0038)Thr+(-0.0010)Pro+(-0.0443)Tyr+(-0.0519)Val+(0.1578)Ile;0.763,0.790,0.738,0.716,0.751,0.798,0.723,0.747,(6.3503)+(-0.0274)Asn+(0.0055)Gly+(-0.1203)His+(-0.0364)Cit+(0.0042)Pro+(0.0132)Leu;0.763,0.798,0.732,0.738,0.756,0.810,0.613,0.729,(0.7181)+(0.0365)Ser+(0.0017)Gln+(0.0086)Thr+(-0.0791)Cit+(0.0112)Pro+(-0.3178)Met;0.763,0.797,0.775,0.765,0.761,0.823,0.791,0.785,(7.2372)+(-0.1023)His+(-0.0046)Ala+(-0.0003)Arg+(0.0112)Pro+(0.0020)Val+(-0.0737)Met;0.763,0.799,0.728,0.750,0.696,0.738,0.731,

0.729,(-0.2102)+(0.0539)Ser+(-0.1662)Asn+(-0.0071)Gly+(0.0039)Thr+(-0.0726)Tyr+(0.0888)Phe;0.763,0.795,0.739,0.724,0.750,0.800,0.712,0.747,(6.6939)+(-0.1298)His+(0.0172)Thr+(-0.0158)Arg+(0.0042)Pro+(-0.0017)Val+(0.0026)Lys;0.763,0.795,0.778,0.749,0.772,0.851,0.819,0.797,(3.8706)+(-0.0809)Asn+(-0.0129)Ala+(-0.1203)Cit+(0.0056)Arg+(0.0445)Orn+(0.0466)Ile;0.763,0.792,0.720,0.701,0.659,0.805,0.834,0.750,(3.1913)+(-0.0016)Gly+(-0.0011)Gln+(0.0046)Thr+(-0.0535)Val+(-0.0158)Lys+(0.1599)Ile;0.763,0.795,0.781,0.771,0.774,0.831,0.788,0.791,(7.5888)+(0.0029)Asn+(-0.0926)His+(-0.0050)Ala+(-0.0308)Cit+(0.0123)Pro+(-0.0677)Met;0.763,0.792,0.763,0.740,0.758,0.807,0.802,0.777,(7.3981)+(-0.0356)Asn+(-0.1084)His+(-0.0234)Cit+(0.0049)Arg+(-0.0218)Val+(0.0468)Leu;0.763,0.809,0.682,0.673,0.679,0.779,0.640,0.693,(-1.1286)+(0.0393)Ser+(-0.0931)Cit+(-0.0669)Tyr+(-0.0289)Lys+(0.0515)Ile+(0.0749)Phe;0.763,0.799,0.804,0.809,0.785,0.796,0.833,0.806,(2.9291)+(-0.0591)Asn+(-0.0022)Ala+(-0.0409)Val+(-0.2421)Met+(0.0588)Leu+(0.1056)Phe;0.763,0.796,0.744,0.739,0.754,0.807,0.695,0.749,(7.2622)+(-0.1219)His+(0.0211)Thr+(-0.0222)Cit+(-0.0120)Arg+(-0.0199)Tyr+(0.0037)Lys;0.763,0.803,0.757,0.751,0.729,0.817,0.788,0.771,(2.8139)+(0.0010)Gly+(-0.2452)Met+(0.0099)Orn+(-0.0011)Lys+(0.1655)Ile+(-0.0811)Leu;0.763,0.796,0.715,0.684,0.684,0.816,0.786,0.743,(2.8523)+(-0.0027)Gln+(-0.0888)Cit+(-0.0053)Pro+(-0.0536)Val+(0.0436)Orn+(0.1526)Ile;0.763,0.797,0.775,0.765,0.761,0.823,0.792,0.785,(7.2296)+(-0.1023)His+(-0.0046)Ala+(0.0112)Pro+(-0.0004)Tyr+(0.0020)Val+(-0.0736)Met;0.763,0.796,0.678,0.666,0.619,0.783,0.757,0.706,(1.9431)+(0.0255)Ser+(-0.0050)Gln+(-0.0006)Pro+(-0.0393)Tyr+(-0.0504)Val+(0.1573)Ile;0.763,0.796,0.738,0.722,0.739,0.794,0.740,0.749,(6.4183)+(-0.0216)Asn+(0.0038)Gly+(-0.1235)His+(0.0052)Pro+(-0.0159)Tyr+(0.0132)Leu;0.763,0.806,0.793,0.809,0.803,0.789,0.736,0.784,(6.1255)+(-0.0012)Gly+(-0.0155)Arg+(-0.0116)Tyr+(0.0259)Orn+(0.0023)

Lys+(-0.1415)Trp;0.763,0.799,0.785,0.795,0.773,0.842,0.741,0.788,(2.1642)+(0.0471)Ser+(-0.0871)Asn+(-0.0068)Gly+(0.0129)Thr+(-0.0024)Ala+(-0.1969)Met;0.763,0.798,0.748,0.720,0.763,0.807,0.748,0.759,(6.4745)+(-0.0219)Asn+(-0.1234)His+(-0.0092)Arg+(0.0033)Pro+(0.0327)Orn+(0.0027)Lys;0.763,0.790,0.745,0.725,0.739,0.793,0.775,0.758,(6.9169)+(-0.1141)His+(-0.0226)Cit+(0.0062)Pro+(-0.0149)Tyr+(-0.0189)Val+(0.0408)Leu;0.763,0.803,0.737,0.739,0.676,0.831,0.791,0.759,(0.5068)+(0.0419)Ser+(-0.1268)Asn+(-0.0020)Thr+(-0.0085)Ala+(-0.0315)Tyr+(0.0588)Ile;0.763,0.800,0.749,0.757,0.711,0.816,0.757,0.760,(3.9196)+(-0.0744)Cit+(-0.0018)Pro+(-0.0433)Tyr+(-0.0056)Lys+(0.1648)Ile+(-0.0817)Leu;0.763,0.800,0.760,0.771,0.762,0.770,0.722,0.756,(0.5382)+(0.0280)Thr+(-0.0086)Ala+(-0.0194)Arg+(0.0118)Pro+(-0.3559)Met+(0.1017)Phe;0.763,0.795,0.725,0.705,0.692,0.822,0.779,0.749,(2.0666)+(-0.0959)Cit+(-0.0072)Pro+(-0.0393)Val+(0.0391)Orn+(0.1840)Ile+(-0.0430)Leu;0.763,0.794,0.768,0.748,0.768,0.807,0.794,0.779,(7.1375)+(-0.1068)His+(-0.0174)Cit+(-0.0226)Val+(-0.1235)Met+(0.0079)Lys+(0.0511)Leu;0.763,0.801,0.749,0.718,0.764,0.809,0.756,0.762,(6.4645)+(-0.0184)Asn+(-0.1275)His+(-0.0073)Arg+(0.0328)Orn+(0.0009)Lys+(0.0067)Leu;0.763,0.800,0.799,0.806,0.784,0.782,0.826,0.799,(2.8476)+(-0.0625)Asn+(0.0019)Arg+(-0.0427)Val+(-0.2595)Met+(0.0597)Leu+(0.1062)Phe;0.763,0.800,0.788,0.805,0.791,0.838,0.702,0.784,(1.3205)+(0.0389)Ser+(-0.1009)Asn+(0.0055)Gln+(-0.0728)Cit+(0.0028)Tyr+(-0.1746)Met;0.763,0.799,0.783,0.796,0.740,0.818,0.814,0.792,(0.8585)+(-0.1133)Asn+(0.0059)Gln+(-0.0301)Arg+(0.1544)Ile+(-0.0986)Leu+(0.0579)Phe;0.763,0.790,0.735,0.725,0.681,0.810,0.819,0.759,(3.4488)+(-0.0002)Gly+(-0.0232)Arg+(-0.0017)Pro+(-0.0547)Val+(-0.0078)Lys+(0.1658)Ile;0.763,0.799,0.756,0.771,0.706,0.799,0.789,0.766,(4.0959)+(-0.0734)Asn+(0.0005)Gly+(-0.0007)Pro+(-0.0435)Tyr+(0.1531)Ile+(-0.0809)Leu;0.763,0.796,0.774,0.766,0.761,0.824,0.787,0.785,(7.2631)+

(0.0039)Asn+(-0.1002)His+(-0.0044)Ala+(-0.0008)Arg+(0.0116)Pro+(-0.0745)Met;0.763,0.791,0.754,0.744,0.743,0.818,0.756,0.765,(6.3937)+(0.0035)Gly+(-0.1184)His+(-0.0054)Ala+(-0.0106)Arg+(0.0099)Pro+(0.0073)Lys;0.763,0.809,0.754,0.756,0.723,0.815,0.767,0.765,(3.0295)+(0.0134)Thr+(-0.0158)Tyr+(-0.2572)Met+(-0.0018)Lys+(0.1639)Ile+(-0.0768)Leu;0.763,0.802,0.754,0.756,0.788,0.845,0.611,0.750,(1.9648)+(0.0326)Ser+(-0.0929)Cit+(-0.0069)Arg+(-0.0059)Val+(-0.2221)Met+(0.0475)Orn;0.763,0.795,0.715,0.691,0.662,0.802,0.824,0.745,(3.0944)+(-0.0019)Gln+(-0.0052)Pro+(-0.0541)Val+(0.0257)Orn+(-0.0166)Lys+(0.1642)Ile;0.763,0.791,0.764,0.755,0.754,0.819,0.765,0.773,(6.7567)+(-0.0257)Asn+(0.0035)Gly+(-0.1190)His+(-0.0028)Ala+(0.0021)Val+(0.0065)Lys;0.763,0.800,0.751,0.734,0.757,0.806,0.746,0.761,(6.1591)+(0.0037)Asn+(0.0045)Gly+(-0.1268)His+(-0.1202)Met+(0.0063)Lys+(0.0190)Leu;0.763,0.800,0.785,0.777,0.786,0.787,0.799,0.787,(-0.9698)+(0.0060)Gln+(-0.0104)Arg+(-0.3406)Met+(-0.0131)Lys+(0.0487)Ile+(0.0749)Phe;0.763,0.797,0.771,0.763,0.776,0.834,0.734,0.777,(7.1407)+(0.0050)Gly+(-0.1085)His+(-0.0027)Ala+(-0.0384)Cit+(0.0070)Val+(-0.0514)Met;0.763,0.789,0.710,0.698,0.645,0.784,0.824,0.738,(1.3032)+(-0.0027)Gln+(-0.0066)Pro+(-0.0454)Val+(0.1896)Ile+(-0.0425)Leu+(0.0388)Phe;0.763,0.807,0.696,0.679,0.658,0.790,0.754,0.720,(-2.1135)+(0.0298)Ser+(-0.0072)Pro+(-0.0252)Lys+(0.1572)Ile+(-0.0861)Leu+(0.0520)Phe;0.763,0.805,0.721,0.696,0.742,0.803,0.683,0.731,(0.1021)+(0.0393)Ser+(-0.1818)Asn+(0.0028)Gln+(-0.1037)Cit+(0.0297)Orn+(0.0266)Ile;0.763,0.800,0.755,0.733,0.774,0.816,0.728,0.763,(6.4737)+(0.0061)Gly+(-0.1171)His+(-0.0360)Cit+(0.0098)Tyr+(-0.1127)Met+(0.0215)Leu;0.763,0.799,0.712,0.712,0.688,0.814,0.686,0.725,(-0.2549)+(0.0294)Ser+(-0.0444)Arg+(-0.0051)Pro+(0.0091)Orn+(0.1790)Ile+(-0.1004)Leu;0.763,0.803,0.759,0.732,0.772,0.815,0.763,0.770,(6.4485)+(-0.1234)His+(-0.0043)Arg+(-0.1035)Met+(0.0324)Orn+(0.0040)Lys+(0.0116)Leu;0.

763,0.801,0.773,0.773,0.707,0.844,0.862,0.796,(2.2244)+(0.0010)Gln+(-0.0112)Ala+(0.0090)Orn+(-0.0117)Lys+(0.1628)Ile+(-0.0798)Leu;0.763,0.792,0.767,0.749,0.758,0.813,0.798,0.780,(7.1234)+(-0.0077)Asn+(-0.1204)His+(-0.0033)Ala+(0.0001)Arg+(-0.0070)Tyr+(0.0172)Leu;0.763,0.796,0.704,0.671,0.662,0.815,0.800,0.737,(0.2618)+(0.0243)Ser+(-0.0063)Gly+(-0.0836)Cit+(-0.0530)Val+(0.0305)Orn+(0.1430)Ile;0.763,0.792,0.723,0.720,0.649,0.791,0.838,0.749,(0.5911)+(-0.0072)Thr+(-0.0066)Pro+(-0.0420)Val+(0.1902)Ile+(-0.0481)Leu+(0.0368)Phe;0.763,0.800,0.757,0.742,0.752,0.841,0.748,0.771,(4.1828)+(-0.0821)Asn+(-0.0932)Cit+(-0.0090)Arg+(0.0410)Orn+(0.1440)Ile+(-0.0850)Leu;0.763,0.807,0.728,0.723,0.766,0.821,0.597,0.727,(0.9527)+(0.0390)Ser+(-0.0931)Cit+(-0.0067)Arg+(0.0096)Pro+(-0.2856)Met+(0.0352)Orn;0.763,0.798,0.741,0.755,0.709,0.807,0.724,0.749,(3.8755)+(0.0058)Thr+(-0.0637)Cit+(-0.0156)Arg+(-0.0497)Tyr+(0.1647)Ile+(-0.0857)Leu;0.763,0.796,0.777,0.777,0.746,0.835,0.797,0.789,(4.6407)+(-0.0837)Asn+(0.0178)Thr+(-0.0107)Ala+(-0.0853)Cit+(-0.0375)Tyr+(0.0602)Ile;0.763,0.805,0.750,0.757,0.727,0.830,0.723,0.759,(1.0462)+(0.0444)Ser+(-0.0745)Asn+(-0.0069)Ala+(0.0144)Pro+(-0.2069)Met+(0.0066)Leu;0.763,0.801,0.759,0.751,0.769,0.818,0.715,0.763,(6.7857)+(0.0049)Gly+(-0.1019)His+(-0.0358)Cit+(0.0031)Arg+(0.0091)Pro+(-0.0980)Met;0.763,0.808,0.774,0.767,0.756,0.837,0.789,0.787,(4.0178)+(-0.0643)Cit+(-0.0017)Arg+(-0.2103)Met+(0.0021)Lys+(0.1709)Ile+(-0.0820)Leu;0.763,0.804,0.764,0.765,0.731,0.810,0.799,0.776,(3.5097)+(-0.0160)Asn+(-0.0152)Tyr+(-0.2015)Met+(0.0022)Lys+(0.1659)Ile+(-0.0811)Leu;0.763,0.801,0.751,0.738,0.779,0.821,0.673,0.753,(1.0254)+(0.0438)Ser+(-0.0056)Gly+(-0.0922)Cit+(-0.2667)Met+(0.0384)Orn+(0.0050)Leu;0.763,0.799,0.719,0.696,0.663,0.8
08,0.835,0.750,(2.7452)+(-0.0029)Gly+(0.0018)Thr+(-0.0539)Val+(0.0216)Orn+(-0.0186)Lys+(0.1566)Ile;0.763,0.799,0.719,0.718,0.750,0.800,0.6

02,0.717,(0.7343)+(0.0395)Ser+(0.0103)Thr+(-0.0784)Cit+(0.0104)Pro+(-0.3332)Met+(0.0082)Leu;0.763,0.793,0.699,0.670,0.647,0.795,0.815,0.732,(-0.5866)+(0.0272)Ser+(-0.0059)Gly+(-0.0635)Cit+(-0.0535)Val+(0.1455)Ile+(0.0250)Phe;0.763,0.804,0.729,0.724,0.763,0.820,0.605,0.728,(0.6656)+(0.0379)Ser+(0.0006)Gln+(-0.0979)Cit+(0.0094)Pro+(-0.2964)Met+(0.0337)Orn;0.763,0.797,0.809,0.815,0.764,0.855,0.854,0.822,(2.5804)+(-0.0936)Asn+(0.0073)Gln+(-0.0104)Ala+(-0.0914)Cit+(-0.0310)Tyr+(0.0603)Ile;0.763,0.796,0.726,0.704,0.669,0.812,0.841,0.756,(2.8307)+(-0.0024)Gly+(-0.0055)Pro+(-0.0538)Val+(0.0252)Orn+(-0.0178)Lys+(0.1627)Ile;0.763,0.808,0.709,0.689,0.717,0.762,0.704,0.718,(-0.9619)+(0.0488)Ser+(-0.1713)Asn+(-0.0068)Thr+(-0.0809)Cit+(0.0262)Ile+(0.0494)Phe;0.763,0.800,0.770,0.790,0.713,0.811,0.801,0.779,(2.9882)+(-0.0965)Asn+(0.0046)Gln+(-0.0446)Tyr+(-0.0023)Lys+(0.1489)Ile+(-0.0792)Leu;0.763,0.812,0.764,0.767,0.740,0.840,0.751,0.775,(2.4531)+(0.0464)Ser+(-0.1071)Asn+(-0.0024)Arg+(-0.0434)Val+(-0.1859)Met+(0.0786)Leu;0.763,0.792,0.730,0.713,0.729,0.785,0.734,0.740,(6.0517)+(0.0031)Gly+(-0.1301)His+(0.0050)Pro+(-0.0195)Tyr+(0.0021)Lys+(0.0126)Leu;0.763,0.793,0.739,0.730,0.684,0.812,0.823,0.762,(3.1619)+(-0.0007)Gly+(0.0010)Gln+(-0.0251)Arg+(-0.0546)Val+(-0.0084)Lys+(0.1633)Ile;0.763,0.791,0.766,0.747,0.758,0.811,0.798,0.779,(7.0476)+(-0.0126)Asn+(-0.1218)His+(-0.0034)Ala+(-0.0094)Tyr+(0.0040)Lys+(0.0156)Leu;0.763,0.796,0.774,0.765,0.761,0.825,0.789,0.785,(7.2284)+(0.0037)Asn+(-0.1005)His+(-0.0044)Ala+(0.0116)Pro+(0.0010)Tyr+(-0.0768)Met;0.763,0.798,0.740,0.709,0.755,0.805,0.747,0.754,(6.1407)+(-0.1312)His+(-0.0090)Arg+(0.0024)Pro+(0.0313)Orn+(-0.0001)Lys+(0.0059)Leu;0.763,0.795,0.730,0.718,0.679,0.804,0.816,0.754,(0.9566)+(-0.0750)Cit+(-0.0068)Pro+(-0.0378)Val+(0.1934)Ile+(-0.0536)Leu+(0.0493)Phe;0.763,0.793,0.759,0.755,0.745,0.820,0.756,0.769,(6.8335)+(0.0031)Gly+(-0.1095)His+(-0.0048)Ala+(-0.0056)Arg+(0.0106)P

ro+(-0.0067)Tyr;0.763,0.804,0.710,0.712,0.660,0.794,0.747,0.728,(0.15
69)+(0.0314)Ser+(-0.0142)Thr+(-0.0384)Tyr+(-0.0105)Lys+(0.1586)Ile+(-
0.0783)Leu;0.763,0.803,0.762,0.741,0.775,0.819,0.749,0.771,(6.6571)+(
-0.0012)Asn+(-0.1182)His+(-0.0083)Arg+(-0.0863)Met+(0.0359)Orn+(0.006
8)Lys;0.763,0.800,0.773,0.769,0.708,0.846,0.864,0.797,(2.6988)+(-0.00
08)Gly+(-0.0111)Ala+(0.0111)Orn+(-0.0107)Lys+(0.1623)Ile+(-0.0800)Leu
;0.763,0.799,0.768,0.785,0.762,0.842,0.683,0.768,(1.5544)+(0.0385)Ser
+(-0.0950)Asn+(0.0070)Thr+(-0.0034)Ala+(-0.1802)Met+(0.0203)Orn;0.763
,0.798,0.740,0.749,0.706,0.814,0.737,0.751,(3.6470)+(0.0016)Gly+(-0.0
777)Cit+(-0.0439)Tyr+(-0.0063)Lys+(0.1625)Ile+(-0.0808)Leu;0.763,0.79
6,0.809,0.802,0.773,0.853,0.870,0.824,(1.1321)+(-0.1157)Asn+(0.0069)G
ln+(-0.0126)Ala+(-0.0971)Cit+(0.0489)Ile+(0.0391)Phe;0.763,0.796,0.80
3,0.795,0.771,0.858,0.854,0.819,(2.3319)+(-0.1183)Asn+(0.0062)Gln+(0.
0097)Thr+(-0.0123)Ala+(-0.0983)Cit+(0.0561)Ile;0.763,0.800,0.770,0.78
3,0.738,0.792,0.788,0.775,(-0.0782)+(0.0509)Ser+(-0.2050)Asn+(-0.0054
)Gly+(0.0024)Gln+(-0.0203)Val+(0.0929)Phe;0.763,0.797,0.746,0.766,0.7
42,0.823,0.649,0.745,(2.4716)+(0.0393)Ser+(-0.0968)Asn+(0.0103)Thr+(0
.0124)Pro+(-0.0106)Val+(-0.2127)Met;0.763,0.802,0.746,0.735,0.755,0.7
63,0.746,0.750,(-1.3101)+(0.0040)Gln+(0.0231)Thr+(-0.4090)Met+(-0.018
9)Lys+(0.0505)Ile+(0.0838)Phe;0.763,0.808,0.763,0.762,0.750,0.852,0.7
31,0.774,(3.1160)+(0.0257)Thr+(0.0012)Tyr+(-0.0497)Val+(-0.3328)Met+(
0.0235)Orn+(0.0801)Leu;0.763,0.804,0.806,0.797,0.785,0.848,0.842,0.81
8,(1.4695)+(0.0065)Gln+(-0.0097)Ala+(-0.0893)Cit+(-0.0019)Tyr+(-0.223
6)Met+(0.0738)Ile;0.763,0.812,0.737,0.722,0.784,0.835,0.609,0.738,(1.
3471)+(0.0383)Ser+(-0.1053)Cit+(-0.2264)Met+(0.0463)Orn+(-0.0137)Lys+
(0.0113)Leu;0.763,0.806,0.760,0.764,0.760,0.849,0.686,0.765,(3.7103)+
(0.0303)Thr+(-0.0177)Arg+(-0.0490)Val+(-0.3175)Met+(0.0275)Orn+(0.078
2)Leu;0.763,0.803,0.752,0.741,0.776,0.773,0.714,0.751,(-2.0908)+(0.00

57)Gly+(0.0056)Gln+(-0.0946)Cit+(-0.3835)Met+(0.0493)Ile+(0.0870)Phe;0.763,0.800,0.745,0.755,0.754,0.785,0.672,0.741,(0.0827)+(0.0468)Ser+(-0.1687)Asn+(-0.0701)Cit+(-0.0093)Arg+(-0.0161)Leu+(0.0858)Phe;0.763,0.804,0.696,0.697,0.715,0.798,0.583,0.698,(-0.4074)+(0.0343)Ser+(-0.1227)Cit+(-0.0683)Tyr+(0.0528)Orn+(-0.0282)Lys+(0.0897)Phe;0.762,0.793,0.710,0.690,0.656,0.799,0.809,0.739,(2.9654)+(-0.0019)Gln+(-0.0474)Val+(0.0208)Orn+(-0.0146)Lys+(0.1733)Ile+(-0.0226)Leu;0.762,0.801,0.778,0.798,0.765,0.855,0.698,0.779,(2.4336)+(0.0377)Ser+(-0.1038)Asn+(-0.0023)Ala+(-0.0084)Val+(-0.1307)Met+(0.0306)Orn;0.762,0.797,0.713,0.687,0.660,0.803,0.831,0.745,(3.2274)+(-0.0020)Gly+(-0.0017)Gln+(-0.0542)Val+(0.0242)Orn+(-0.0166)Lys+(0.1578)Ile;0.762,0.798,0.726,0.695,0.703,0.838,0.776,0.753,(-1.2724)+(0.0261)Ser+(-0.0168)Ala+(-0.1299)Cit+(0.0318)Orn+(0.0518)Ile+(0.0212)Phe;0.762,0.795,0.715,0.718,0.643,0.792,0.800,0.738,(2.2662)+(-0.0011)Thr+(-0.0025)Pro+(-0.0469)Tyr+(-0.0520)Val+(0.0190)Orn+(0.1531)Ile;0.762,0.798,0.758,0.766,0.733,0.789,0.766,0.763,(0.4929)+(0.0513)Ser+(-0.2009)Asn+(-0.0051)Gly+(0.0038)Thr+(-0.0207)Val+(0.0957)Phe;0.762,0.794,0.776,0.752,0.778,0.825,0.803,0.789,(7.2136)+(-0.1104)His+(-0.0035)Ala+(-0.0371)Cit+(0.0099)Arg+(-0.0791)Met+(0.0225)Leu;0.762,0.792,0.769,0.758,0.756,0.816,0.792,0.781,(7.0783)+(-0.0198)Asn+(-0.1119)His+(-0.0054)Ala+(-0.0068)Arg+(0.0098)Pro+(0.0077)Lys;0.762,0.792,0.647,0.608,0.601,0.767,0.760,0.684,(0.2738)+(0.0287)Ser+(-0.0081)Gln+(-0.0589)Val+(0.0101)Orn+(0.1536)Ile+(0.0340)Phe;0.762,0.809,0.728,0.713,0.753,0.787,0.672,0.731,(-0.8852)+(0.0427)Ser+(-0.2008)Asn+(0.0026)Gln+(-0.1061)Cit+(0.0312)Orn+(0.0524)Phe;0.762,0.796,0.711,0.704,0.695,0.825,0.679,0.726,(-0.0462)+(0.0296)Ser+(0.0003)Gln+(-0.0632)Cit+(-0.0311)Arg+(0.1696)Ile+(-0.0937)Leu;0.762,0.806,0.726,0.705,0.768,0.746,0.682,0.725,(-0.0178)+(0.0305)Thr+(-0.0882)Cit+(0.0016)Pro+(-0.4303)Met+(0.0445)Ile+(0.0840)Phe;0.762,0

.800,0.771,0.792,0.769,0.853,0.661,0.769,(2.4927)+(0.0359)Ser+(-0.1086)Asn+(0.0080)Thr+(-0.0098)Val+(-0.1650)Met+(0.0267)Orn;0.762,0.797,0.731,0.699,0.709,0.844,0.781,0.758,(-0.4718)+(0.0271)Ser+(-0.0014)Gly+(-0.0161)Ala+(-0.1266)Cit+(0.0331)Orn+(0.0553)Ile;0.762,0.792,0.775,0.761,0.767,0.828,0.791,0.787,(7.4821)+(-0.0120)Asn+(-0.1009)His+(-0.0060)Ala+(-0.0342)Cit+(0.0105)Pro+(0.0021)Val;0.762,0.799,0.751,0.728,0.762,0.811,0.747,0.762,(6.1882)+(0.0097)Asn+(0.0047)Gly+(-0.1253)His+(0.0081)Tyr+(-0.1205)Met+(0.0211)Leu;0.762,0.795,0.770,0.756,0.748,0.849,0.793,0.787,(3.3296)+(-0.0965)Asn+(0.0057)Gly+(0.0104)Thr+(-0.0123)Ala+(-0.0977)Cit+(0.0617)Ile;0.762,0.794,0.708,0.682,0.640,0.804,0.849,0.744,(-0.3275)+(0.0363)Ser+(-0.0090)Gly+(-0.0167)Thr+(-0.0539)Val+(0.0143)Orn+(0.1467)Ile;0.762,0.793,0.768,0.747,0.768,0.812,0.792,0.780,(7.4514)+(-0.0022)Asn+(-0.1025)His+(-0.0184)Cit+(-0.0215)Val+(-0.0959)Met+(0.0519)Leu;0.762,0.792,0.781,0.765,0.783,0.851,0.770,0.792,(4.5408)+(-0.0055)Ala+(-0.0917)Cit+(-0.0336)Val+(-0.1772)Met+(0.0583)Orn+(0.0556)Leu;0.762,0.803,0.735,0.746,0.716,0.785,0.708,0.739,(0.0736)+(0.0452)Ser+(-0.2143)Asn+(0.0069)Pro+(-0.0254)Val+(0.0227)Orn+(0.0932)Phe;0.762,0.791,0.770,0.749,0.763,0.817,0.802,0.783,(6.9909)+(-0.0121)Asn+(-0.1227)His+(-0.0037)Ala+(-0.0023)Arg+(0.0036)Lys+(0.0148)Leu;0.762,0.791,0.767,0.744,0.759,0.819,0.805,0.782,(7.1998)+(-0.1120)His+(-0.0034)Ala+(-0.0250)Cit+(-0.0017)Tyr+(-0.0168)Val+(0.0432)Leu;0.762,0.802,0.720,0.759,0.694,0.730,0.666,0.712,(-0.2669)+(0.0450)Ser+(-0.1698)Asn+(0.0081)Pro+(-0.0674)Tyr+(-0.0201)Leu+(0.1068)Phe;0.762,0.798,0.743,0.749,0.716,0.774,0.762,0.750,(0.3951)+(0.0539)Ser+(-0.2036)Asn+(-0.0052)Gly+(0.0082)Pro+(-0.0233)Val+(0.0929)Phe;0.762,0.792,0.670,0.637,0.620,0.789,0.775,0.705,(0.9752)+(0.0321)Ser+(-0.0062)Gln+(-0.0142)Thr+(-0.0543)Val+(0.0178)Orn+(0.1540)Ile;0.762,0.800,0.772,0.768,0.709,0.841,0.864,0.796,(2.6917)+(-0.0069)Thr+(-0.0107)Ala+

(0.0139)Orn+(-0.0086)Lys+(0.1653)Ile+(-0.0820)Leu;0.762,0.797,0.788,0.779,0.773,0.804,0.832,0.797,(1.0501)+(-0.0094)Asn+(-0.0080)Ala+(-0.0070)Arg+(-0.2660)Met+(0.0534)Ile+(0.0680)Phe;0.762,0.808,0.718,0.735,0.717,0.749,0.652,0.713,(-3.5119)+(0.0452)Ser+(-0.0005)Gln+(-0.0192)Tyr+(-0.3558)Met+(0.0052)Orn+(0.1112)Phe;0.762,0.802,0.761,0.758,0.731,0.816,0.790,0.774,(3.0404)+(-0.0167)Asn+(0.0018)Gly+(-0.2306)Met+(0.0013)Lys+(0.1659)Ile+(-0.0809)Leu;0.762,0.799,0.785,0.795,0.724,0.853,0.836,0.802,(2.0952)+(-0.0002)Gly+(0.0034)Gln+(-0.0105)Ala+(-0.0299)Arg+(0.1804)Ile+(-0.0932)Leu;0.762,0.798,0.709,0.716,0.650,0.792,0.752,0.728,(-0.2201)+(0.0294)Ser+(-0.0185)Thr+(-0.0010)Pro+(-0.0421)Tyr+(0.1647)Ile+(-0.0859)Leu;0.762,0.798,0.749,0.744,0.730,0.836,0.740,0.763,(3.7519)+(-0.0828)Asn+(0.0055)Gly+(-0.0816)Cit+(-0.0044)Lys+(0.1540)Ile+(-0.0793)Leu;0.762,0.794,0.792,0.773,0.782,0.842,0.827,0.806,(4.1992)+(0.0027)Asn+(-0.0091)Ala+(-0.0735)Cit+(-0.1660)Met+(-0.0076)Lys+(0.0753)Ile;0.762,0.791,0.714,0.693,0.644,0.804,0.849,0.748,(-0.1241)+(0.0357)Ser+(-0.0084)Gly+(-0.0135)Thr+(-0.0031)Pro+(-0.0530)Val+(0.1527)Ile;0.762,0.809,0.726,0.746,0.721,0.755,0.659,0.720,(-3.4823)+(0.0434)Ser+(-0.0197)Tyr+(-0.3485)Met+(0.0065)Orn+(-0.0052)Leu+(0.1151)Phe;0.762,0.797,0.721,0.701,0.685,0.819,0.776,0.745,(-0.3330)+(0.0386)Ser+(-0.0034)Gly+(-0.0215)Thr+(-0.0740)Cit+(0.1704)Ile+(-0.0919)Leu;0.762,0.802,0.753,0.758,0.726,0.830,0.744,0.764,(0.7112)+(0.0456)Ser+(-0.0070)Gly+(0.0064)Thr+(-0.0067)Ala+(0.0154)Pro+(-0.2786)Met;0.762,0.805,0.810,0.816,0.808,0.808,0.799,0.808,(6.0786)+(0.0003)Gly+(-0.0046)Ala+(-0.0079)Arg+(0.0035)Tyr+(0.0149)Leu+(-0.1459)Trp;0.762,0.798,0.784,0.787,0.745,0.823,0.830,0.796,(3.2444)+(-0.0678)Asn+(-0.0106)Ala+(-0.0793)Cit+(-0.0439)Tyr+(0.0505)Ile+(0.0604)Phe;0.762,0.808,0.771,0.774,0.753,0.857,0.740,0.781,(2.5731)+(0.0017)Gln+(0.0247)Thr+(-0.0491)Val+(-0.3392)Met+(0.0215)Orn+(0.0792)Leu;0.762,0.804,0.809,0.81

6,0.807,0.805,0.797,0.806,(6.0701)+(-0.0046)Ala+(-0.0093)Arg+(0.0025)Tyr+(0.0024)Lys+(0.0136)Leu+(-0.1471)Trp;0.762,0.797,0.778,0.785,0.723,0.848,0.824,0.795,(2.1615)+(0.0027)Gln+(-0.0106)Ala+(-0.0323)Arg+(0.0141)Orn+(0.1779)Ile+(-0.0942)Leu;0.762,0.805,0.763,0.745,0.774,0.823,0.747,0.772,(6.9274)+(-0.1130)His+(-0.0063)Arg+(-0.0072)Tyr+(-0.0007)Val+(-0.0564)Met+(0.0407)Orn;0.762,0.801,0.792,0.798,0.756,0.854,0.807,0.804,(2.4153)+(-0.1071)A

sn+(0.0074)Gln+(-0.0747)Cit+(-0.0135)Arg+(0.1559)Ile+(-0.0855)Leu;0.762,0.792,0.739,0.731,0.683,0.814,0.820,0.762,(3.0921)+(0.0010)Gln+(-0.0246)Arg+(-0.0019)Pro+(-0.0544)Val+(-0.0084)Lys+(0.1653)Ile;0.762,0.800,0.751,0.743,0.759,0.801,0.721,0.756,(6.2924)+(0.0044)Gly+(-0.1155)His+(-0.0083)Arg+(0.0089)Pro+(-0.1260)Met+(0.0118)Lys;0.762,0.797,0.718,0.691,0.680,0.810,0.799,0.745,(0.8356)+(-0.0950)Cit+(-0.0071)Pro+(-0.0542)Val+(0.0380)Orn+(0.1474)Ile+(0.0287)Phe;0.762,0.797,0.796,0.805,0.775,0.787,0.825,0.798,(1.6780)+(-0.0027)Ala+(-0.0386)Val+(-0.3021)Met+(0.0006)Lys+(0.0563)Leu+(0.1057)Phe;0.762,0.791,0.747,0.739,0.746,0.799,0.732,0.754,(6.7803)+(-0.0230)Asn+(0.0033)Gly+(-0.1134)His+(0.0070)Pro+(-0.0123)Tyr+(0.0004)Val;0.762,0.793,0.736,0.723,0.753,0.810,0.683,0.742,(6.6230)+(0.0028)Gly+(-0.1284)His+(0.0173)Thr+(-0.0296)Cit+(-0.0095)Arg+(0.0021)Val;0.762,0.799,0.713,0.716,0.685,0.812,0.689,0.725,(-0.2454)+(0.0305)Ser+(-0.0000)Gln+(-0.0429)Arg+(-0.0045)Pro+(0.1788)Ile+(-0.0989)Leu;0.762,0.804,0.813,0.829,0.813,0.808,0.772,0.805,(6.3824)+(-0.0002)Gly+(-0.0034)Ala+(-0.0108)Arg+(0.0007)Val+(0.0058)Lys+(-0.1402)Trp;0.762,0.792,0.714,0.694,0.663,0.788,0.822,0.742,(1.9798)+(-0.0021)Gln+(-0.0015)Thr+(-0.0626)Cit+(-0.0546)Val+(0.1510)Ile+(0.0329)Phe;0.762,0.798,0.817,0.805,0.785,0.873,0.873,0.834,(2.5941)+(-0.0796)Asn+(0.0075)Gln+(-0.0113)Ala+(-0.0955)Cit+(-0.0143)Lys+(0.0666)Ile;0.762,0.805,0.760,0.754,0.733,0.816,0.791,0.773,(2.9550)+

(-0.0003)Pro+(-0.2418)Met+(0.0110)Orn+(-0.0012)Lys+(0.1655)Ile+(-0.0814)Leu;0.762,0.813,0.744,0.737,0.728,0.854,0.719,0.759,(0.8060)+(0.0370)Ser+(-0.0421)Val+(-0.2807)Met+(0.0289)Orn+(-0.0073)Lys+(0.0753)Leu;0.762,0.803,0.740,0.744,0.678,0.833,0.789,0.761,(0.3691)+(0.0400)Ser+(-0.1349)Asn+(0.0011)Gln+(-0.0085)Ala+(-0.0331)Tyr+(0.0574)Ile;0.762,0.802,0.744,0.766,0.752,0.736,0.673,0.732,(-0.1026)+(0.0012)Gly+(0.0258)Thr+(0.0104)Pro+(-0.0195)Val+(-0.4038)Met+(0.1277)Phe;0.762,0.794,0.720,0.702,0.661,0.803,0.829,0.749,(2.6741)+(-0.0025)Gly+(-0.0469)Val+(0.0200)Orn+(-0.0157)Lys+(0.1722)Ile+(-0.0234)Leu;0.762,0.799,0.778,0.805,0.772,0.854,0.668,0.775,(2.6485)+(0.0361)Ser+(-0.0964)Asn+(0.0130)Thr+(-0.0018)Ala+(-0.0054)Val+(-0.1695)Met;0.762,0.801,0.767,0.771,0.766,0.824,0.719,0.770,(1.3903)+(0.0496)Ser+(-0.0909)Asn+(-0.0071)Gly+(0.0085)Thr+(-0.2206)Met+(0.0184)Orn;0.762,0.792,0.802,0.827,0.786,0.772,0.790,0.794,(0.3622)+(-0.0766)Asn+(0.0064)Gln+(0.0100)Pro+(-0.0184)Val+(-0.2752)Met+(0.1119)Phe;0.762,0.792,0.754,0.735,0.745,0.802,0.787,0.767,(6.8722)+(-0.1210)His+(-0.0038)Arg+(-0.0097)Tyr+(-0.0190)Val+(0.0033)Lys+(0.0416)Leu;0.762,0.805,0.763,0.744,0.773,0.821,0.748,0.771,(6.9387)+(-0.0026)Asn+(-0.1135)His+(-0.0060)Arg+(-0.0080)Tyr+(-0.0548)Met+(0.0403)Orn;0.762,0.803,0.765,0.760,0.778,0.823,0.708,0.767,(4.2046)+(0.0336)Thr+(-0.0572)Cit+(0.0032)Tyr+(-0.0430)Val+(-0.3372)Met+(0.0770)Leu;0.762,0.800,0.755,0.745,0.758,0.808,0.735,0.762,(6.5425)+(0.0040)Gly+(-0.1111)His+(0.0083)Pro+(0.0016)Tyr+(0.0016)Val+(-0.0998)Met;0.762,0.791,0.732,0.713,0.741,0.792,0.719,0.741,(6.2654)+(0.0044)Gly+(-0.1225)His+(-0.0347)Cit+(0.0052)Pro+(-0.0165)Tyr+(0.0145)Leu;0.762,0.798,0.780,0.765,0.751,0.826,0.843,0.797,(3.1643)+(-0.0024)Asn+(-0.0097)Ala+(0.0090)Pro+(-0.2170)Met+(-0.0078)Lys+(0.0630)Ile;0.762,0.795,0.790,0.799,0.777,0.776,0.806,0.789,(1.6548)+(-0.0034)Arg+(-0.0399)Val+(-0.3191)Met+(0.0014)Lys+(0.0555)Leu+(0.1069)Phe;0.7

62,0.802,0.771,0.779,0.736,0.819,0.787,0.780,(-0.1021)+(0.0510)Ser+(-0.1513)Asn+(-0.0045)Gly+(-0.0076)Ala+(-0.0168)Arg+(0.0695)Phe;0.762,0.795,0.755,0.772,0.718,0.803,0.757,0.762,(4.4540)+(-0.0539)Asn+(0.0013)Gly+(-0.0189)Arg+(-0.0399)Tyr+(0.1604)Ile+(-0.0849)Leu;0.762,0.801,0.768,0.765,0.703,0.842,0.857,0.792,(2.5617)+(-0.0117)Ala+(0.0029)Pro+(0.0092)Orn+(-0.0108)Lys+(0.1589)Ile+(-0.0790)Leu;0.762,0.800,0.722,0.715,0.696,0.813,0.733,0.739,(0.0015)+(0.0382)Ser+(-0.0068)Gly+(-0.0437)Arg+(0.0073)Orn+(0.1682)Ile+(-0.0990)Leu;0.762,0.799,0.746,0.730,0.691,0.843,0.833,0.775,(0.2277)+(0.0474)Ser+(-0.1453)Asn+(-0.0047)Gly+(-0.0102)Ala+(0.0064)Orn+(0.0490)Ile;0.762,0.797,0.799,0.811,0.785,0.788,0.805,0.797,(-0.3254)+(0.0067)Gln+(-0.0567)Cit+(-0.0359)Val+(-0.3474)Met+(0.0508)Leu+(0.1104)Phe;0.762,0.801,0.717,0.737,0.682,0.723,0.733,0.719,(-0.4068)+(0.0553)Ser+(-0.1622)Asn+(-0.0071)Gly+(0.0055)Pro+(-0.0762)Tyr+(0.0856)Phe;0.762,0.803,0.766,0.762,0.737,0.816,0.804,0.780,(3.2509)+(-0.0119)Asn+(0.0004)Pro+(-0.2309)Met+(0.0013)Lys+(0.1655)Ile+(-0.0813)Leu;0.762,0.790,0.744,0.727,0.754,0.801,0.729,0.753,(6.7040)+(-0.0211)Asn+(0.0051)Gly+(-0.1193)His+(-0.0348)Cit+(-0.0081)Tyr+(0.0168)Leu;0.762,0.805,0.786,0.800,0.795,0.783,0.729,0.777,(5.8113)+(-0.0150)Arg+(-0.0117)Tyr+(0.0236)Orn+(0.0008)Lys+(0.0057)Leu+(-0.1453)Trp;0.762,0.804,0.779,0.763,0.772,0.844,0.789,0.792,(2.8031)+(0.0062)Gly+(-0.0099)Ala+(-0.0883)Cit+(0.0063)Tyr+(-0.2081)Met+(0.0778)Ile;0.762,0.800,0.779,0.765,0.756,0.863,0.804,0.797,(3.8055)+(-0.0563)Asn+(0.0063)Gly+(-0.0112)Ala+(-0.0934)Cit+(-0.0118)Lys+(0.0713)Ile;0.762,0.798,0.778,0.787,0.795,0.786,0.715,0.771,(2.0012)+(-0.0513)Asn+(0.0330)Thr+(-0.0063)Ala+(-0.0804)Cit+(-0.2895)Met+(0.1045)Phe;0.761,0.803,0.752,0.753,0.724,0.830,0.752,0.765,(0.4168)+(0.0464)Ser+(-0.0071)Gly+(-0.0071)Ala+(0.0150)Pro+(-0.2662)Met+(0.0146)Orn;0.761,0.800,0.753,0.770,0.703,0.797,0.782,0.763,(4.1865)+(-0.0833)Asn+(0.0060)T

hr+(-0.0009)Pro+(-0.0472)Tyr+(0.1508)Ile+(-0.0797)Leu;0.761,0.797,0.697,0.695,0.626,0.793,0.779,0.723,(0.4541)+(0.0214)Ser+(-0.0107)Thr+(-0.0419)Tyr+(-0.0492)Val+(0.0148)Orn+(0.1459)Ile;0.761,0.800,0.759,0.750,0.770,0.821,0.714,0.764,(6.8000)+(0.0051)Gly+(-0.1025)His+(-0.0338)Cit+(0.0089)Pro+(0.0047)Tyr+(-0.1005)Met;0.761,0.798,0.756,0.748,0.758,0.810,0.734,0.763,(6.6199)+(-0.0010)Asn+(0.0039)Gly+(-0.1087)His+(0.0086)Pro+(0.0024)Tyr+(-0.0979)Met;0.761,0.798,0.785,0.794,0.725,0.853,0.836,0.802,(2.1899)+(0.0035)Gln+(-0.0104)Ala+(-0.0284)Arg+(-0.0029)Lys+(0.1791)Ile+(-0.0911)Leu;0.761,0.797,0.706,0.681,0.654,0.800,0.813,0.737,(3.1167)+(-0.0023)Gln+(0.0020)Thr+(-0.0543)Val+(0.0225)Orn+(-0.0172)Lys+(0.1587)Ile;0.761,0.806,0.721,0.747,0.698,0.766,0.666,0.719,(-0.3832)+(0.0463)Ser+(-0.1518)Asn+(-0.0610)Tyr+(0.0192)Orn+(-0.0134)Lys+(0.0904)Phe;0.761,0.798,0.784,0.795,0.788,0.849,0.699,0.783,(2.8441)+(0.0417)Ser+(-0.0769)Asn+(-0.0032)Ala+(-0.0651)Cit+(0.0092)Tyr+(-0.1453)Met;0.761,0.798,0.720,0.699,0.663,0.812,0.826,0.750,(2.4490)+(0.0017)Thr+(-0.0059)Pro+(-0.0537)Val+(0.0224)Orn+(-0.0188)Lys+(0.1634)Ile;0.761,0.799,0.727,0.747,0.696,0.741,0.731,0.729,(-0.3511)+(0.0545)Ser+(-0.1646)Asn+(-0.0072)Gly+(-0.0732)Tyr+(0.0147)Orn+(0.0836)Phe;0.761,0.803,0.735,0.728,0.689,0.837,0.780,0.758,(0.0847)+(0.0321)Ser+(-0.0065)Thr+(-0.0123)Ala+(-0.0907)Cit+(-0.0315)Tyr+(0.0694)Ile;0.761,0.792,0.696,0.684,0.631,0.796,0.793,0.726,(-0.6234)+(0.0278)Ser+(-0.0206)Thr+(-0.0389)Val+(0.0103)Orn+(0.1815)Ile+(-0.0454)Leu;0.761,0.789,0.771,0.747,0.768,0.822,0.803,0.785,(7.2188)+(-0.0125)Asn+(-0.1143)His+(-0.0044)Ala+(-0.0363)Cit+(0.0062)Arg+(0.0185)Leu;0.761,0.798,0.728,0.730,0.756,0.816,0.600,0.725,(1.5316)+(0.0381)Ser+(0.0106)Thr+(-0.0759)Cit+(0.0115)Pro+(-0.2955)Met+(-0.0048)Lys;0.761,0.793,0.740,0.721,0.756,0.805,0.708,0.748,(6.7926)+(-0.1267)His+(0.0175)Thr+(-0.0242)Cit+(-0.0107)Arg+(0.0038)Pro+(0.0006)Lys;0.761,0.796,0.792,0.783

,0.761,0.842,0.843,0.807,(1.4974)+(0.0043)Gln+(-0.0078)Ala+(-0.2290)Met+(0.0099)Orn+(-0.0126)Lys+(0.0681)Ile;0.761,0.792,0.765,0.758,0.758,0.825,0.758,0.775,(7.0254)+(-0.0124)Asn+(0.0036)Gly+(-0.1165)His+(-0.0026)Ala+(-0.0030)Arg+(0.0039)Val;0.761,0.806,0.753,0.759,0.732,0.818,0.732,0.760,(3.7488)+(0.0196)Thr+(-0.0224)Arg+(-0.0179)Tyr+(-0.2371)Met+(0.1692)Ile+(-0.0808)Leu;0.761,0.806,0.758,0.760,0.740,0.825,0.744,0.767,(3.6546)+(-0.0108)Asn+(0.0190)Thr+(-0.0213)Arg+(-0.2556)Met+(0.1676)Ile+(-0.0813)Leu;0.761,0.792,0.759,0.751,0.742,0.811,0.781,0.771,(6.7498)+(-0.1144)His+(-0.0051)Ala+(0.0103)Pro+(-0.0156)Tyr+(0.0008)Val+(0.0061)Lys;0.761,0.791,0.738,0.727,0.753,0.811,0.685,0.744,(6.7009)+(0.0025)Gly+(-0.1267)His+(0.0174)Thr+(-0.0270)Cit+(-0.0109)Arg+(0.0017)Lys;0.761,0.799,0.766,0.768,0.775,0.810,0.708,0.765,(1.9857)+(0.0508)Ser+(-0.0725)Asn+(-0.0044)Gly+(-0.0600)Cit+(-0.1948)Met+(0.0100)Leu;0.761,0.798,0.769,0.763,0.741,0.839,0.791,0.783,(4.1758)+(-0.0836)Asn+(0.0046)Thr+(-0.0754)Cit+(-0.0041)Pro+(0.1557)Ile+(-0.0824)Leu;0.761,0.794,0.741,0.723,0.758,0.807,0.708,0.749,(6.8455)+(-0.1255)His+(0.0177)Thr+(-0.0243)Cit+(-0.0104)Arg+(0.0040)Pro+(-0.0004)Val;0.761,0.793,0.743,0.728,0.742,0.794,0.747,0.753,(6.4713)+(-0.0237)Asn+(0.0038)Gly+(-0.1274)His+(-0.0123)Tyr+(0.0036)Lys+(0.0144)Leu;0.761,0.793,0.698,0.675,0.650,0.802,0.784,0.727,(-0.9372)+(0.0206)Ser+(-0.0719)Cit+(-0.0063)Pro+(-0.0526)Val+(0.1507)Ile+(0.0328)Phe;0.761,0.791,0.771,0.759,0.761,0.824,0.783,0.782,(7.3883)+(-0.1022)His+(-0.0058)Ala+(-0.0341)Cit+(0.0109)Pro+(-0.0101)Tyr+(0.0030)Val;0.761,0.804,0.818,0.833,0.816,0.819,0.783,0.813,(6.4870)+(0.0000)Gly+(-0.0035)Ala+(-0.0075)Arg+(0.0057)Tyr+(0.0019)Val+(-0.1380)Trp;0.761,0.792,0.717,0.700,0.670,0.792,0.807,0.742,(1.4121)+(-0.0013)Gln+(-0.0725)Cit+(-0.0402)Val+(0.1839)Ile+(-0.0482)Leu+(0.0458)Phe;0.761,0.806,0.730,0.712,0.773,0.751,0.675,0.728,(0.1694)+(0.0325)Thr+(-0.0834)Cit+(-0.0069)Arg+(-0

.4232)Met+(0.0457)Ile+(0.0843)Phe;0.761,0.796,0.772,0.751,0.768,0.818,0.802,0.785,(6.9093)+(0.0126)Asn+(-0.1190)His+(-0.0027)Ala+(0.0028)Arg+(-0.0881)Met+(0.0212)Leu;0.761,0.793,0.725,0.701,0.689,0.820,0.799,0.752,(2.0810)+(-0.0062)Thr+(-0.0908)Cit+(-0.0054)Pro+(-0.0521)Val+(0.0425)Orn+(0.1488)Ile;0.761,0.797,0.756,0.750,0.758,0.810,0.730,0.762,(6.7198)+(-0.0003)Asn+(0.0039)Gly+(-0.1078)His+(-0.0024)Arg+(0.0088)Pro+(-0.0917)Met;0.761,0.793,0.696,0.673,0.627,0.795,0.830,0.731,(-0.2684)+(0.0298)Ser+(-0.0100)Gly+(-0.0465)Val+(0.0053)Orn+(0.1797)Ile+(-0.0360)Leu;0.761,0.807,0.757,0.764,0.722,0.829,0.760,0.769,(-0.3251)+(0.0448)Ser+(-0.1509)Asn+(-0.0074)Ala+(0.0177)Orn+(-0.0140)Lys+(0.0704)Phe;0.761,0.795,0.772,0.752,0.768,0.817,0.798,0.784,(6.8144)+(0.0100)Asn+(-0.1212)His+(-0.0027)Ala+(-0.0987)Met+(0.0062)Lys+(0.0188)Leu;0.761,0.799,0.779,0.757,0.780,0.841,0.791,0.793,(3.6168)+(-0.0102)Ala+(-0.1064)Cit+(-0.0095)Tyr+(-0.1674)Met+(0.0401)Orn+(0.0603)Ile;0.761,0.794,0.737,0.715,0.743,0.794,0.745,0.749,(6.0809)+(-0.0291)Asn+(0.0042)Gly+(-0.1289)His+(0.0039)Pro+(0.0022)Lys+(0.0110)Leu;0.761,0.795,0.779,0.782,0.705,0.845,0.877,0.803,(1.7637)+(-0.0005)Gly+(0.0016)Gln+(-0.0099)Thr+(-0.0111)Ala+(0.1723)Ile+(-0.0880)Leu;0.761,0.799,0.782,0.783,0.712,0.851,0.876,0.805,(2.0993)+(0.0020)Gln+(-0.0068)Thr+(-0.0108)Ala+(-0.0084)Lys+(0.1691)Ile+(-0.0825)Leu;0.761,0.797,0.797,0.806,0.780,0.775,0.823,0.796,(2.7512)+(-0.0672)Asn+(-0.0441)Val+(-0.2637)Met+(0.0045)Lys+(0.0596)Leu+(0.1068)Phe;0.761,0.795,0.714,0.683,0.680,0.831,0.784,0.744,(-0.1329)+(0.0311)Ser+(-0.0019)Gln+(-0.0168)Ala+(-0.1024)Cit+(0.0083)Pro+(0.0596)Ile;0.761,0.791,0.771,0.754,0.762,0.827,0.792,0.784,(7.1891)+(-0.1052)His+(-0.0063)Ala+(-0.0363)Cit+(0.0017)Arg+(0.0103)Pro+(0.0027)Val;0.761,0.799,0.755,0.762,0.774,0.814,0.655,0.751,(1.9747)+(0.0454)Ser+(-0.0721)Asn+(-0.0665)Cit+(-0.1838)Met+(-0.0035)Lys+(0.0126)Leu;0.

761,0.796,0.773,0.796,0.768,0.845,0.675,0.771,(1.9752)+(0.0380)Ser+(-0.0890)Asn+(0.0118)Thr+(-0.0027)Ala+(-0.1838)Met+(-0.0011)Lys;0.761,0.803,0.770,0.764,0.797,0.811,0.700,0.768,(1.0735)+(0.0254)Thr+(-0.0078)Ala+(-0.1075)Cit+(-0.3110)Met+(0.0357)Orn+(0.0958)Phe;0.761,0.788,0.762,0.741,0.757,0.803,0.797,0.774,(7.4048)+(-0.0373)Asn+(-0.1094)His+(-0.0191)Cit+(-0.0222)Val+(0.0038)Lys+(0.0453)Leu;0.761,0.798,0.699,0.714,0.668,0.733,0.697,0.703,(-1.2818)+(0.0472)Ser+(-0.1692)Asn+(-0.0008)Thr+(-0.0688)Tyr+(0.0285)Ile+(0.0730)Phe;0.761,0.796,0.781,0.770,0.774,0.834,0.790,0.792,(7.4904)+(-0.0923)His+(-0.0051)Ala+(-0.0350)Cit+(0.0051)Arg+(0.0124)Pro+(-0.0720)Met;0.761,0.792,0.725,0.713,0.661,0.806,0.832,0.753,(2.7706)+(-0.0017)Gly+(0.0011)Thr+(-0.0453)Val+(-0.0133)Lys+(0.1754)Ile+(-0.0258)Leu;0.761,0.790,0.762,0.742,0.757,0.805,0.792,0.774,(7.5549)+(-0.0287)Asn+(-0.1074)His+(-0.0199)Cit+(-0.0044)Tyr+(-0.0209)Val+(0.0459)Leu;0.761,0.801,0.745,0.762,0.734,0.834,0.659,0.747,(1.0544)+(0.0370)Ser+(0.0093)Thr+(-0.0069)Ala+(-0.0173)Arg+(0.0157)Pro+(-0.2644)Met;0.761,0.799,0.754,0.747,0.757,0.808,0.730,0.761,(6.6331)+(0.0041)Gly+(-0.1103)His+(-0.0023)Arg+(0.0084)Pro+(0.0016)Val+(-0.0946)Met;0.761,0.798,0.756,0.762,0.774,0.810,0.666,0.753,(1.8394)+(0.0450)Ser+(-0.0777)Asn+(-0.0684)Cit+(0.0032)Arg+(-0.1958)Met+(0.0110)Leu;0.761,0.795,0.725,0.701,0.692,0.834,0.779,0.751,(-0.4423)+(0.0306)Ser+(-0.0163)Ala+(-0.0952)Cit+(-0.0118)Arg+(0.0083)Pro+(0.0590)Ile;0.761,0.806,0.699,0.703,0.659,0.784,0.713,0.714,(0.5834)+(0.0240)Ser+(-0.0493)Tyr+(0.0090)Orn+(-0.0159)Lys+(0.1481)Ile+(-0.0731)Leu;0.761,0.804,0.725,0.715,0.763,0.815,0.605,0.724,(0.6594)+(0.0391)Ser+(-0.0972)Cit+(0.0092)Pro+(-0.2997)Met+(0.0332)Orn+(0.0029)Leu;0.761,0.801,0.770,0.771,0.732,0.828,0.802,0.783,(0.0647)+(0.0532)Ser+(-0.1446)Asn+(-0.0056)Gly+(-0.0069)Ala+(-0.0130)Lys+(0.0735)Phe;0.761,0.797,0.785,0.775,0.771,0.804,0.825,0.794,(0.8716)+(-0.0082)Ala+(-0.0091

)Arg+(-0.2733)Met+(0.0065)Orn+(0.0520)Ile+(0.0663)Phe;0.761,0.798,0.702,0.700,0.681,0.809,0.670,0.715,(-0.1925)+(0.0307)Ser+(-0.0008)Gln+(-0.0441)Arg+(0.0071)Orn+(0.1695)Ile+(-0.0983)Leu;0.761,0.790,0.743,0.721,0.755,0.804,0.731,0.753,(6.4728)+(-0.0266)Asn+(0.0053)Gly+(-0.1216)His+(-0.0378)Cit+(0.0030)Arg+(0.0160)Leu;0.761,0.789,0.709,0.702,0.636,0.789,0.819,0.737,(0.0990)+(-0.0081)Pro+(-0.0448)Val+(0.0076)Orn+(0.1890)Ile+(-0.0448)Leu+(0.0321)Phe;0.761,0.801,0.719,0.721,0.683,0.817,0.723,0.736,(-0.4431)+(0.0373)Ser+(-0.0148)Thr+(-0.0348)Arg+(-0.0030)Pro+(0.1826)Ile+(-0.0990)Leu;0.761,0.800,0.742,0.745,0.779,0.828,0.592,0.736,(1.0775)+(0.0326)Ser+(0.0007)Gln+(0.0053)Thr+(-0.0994)Cit+(-0.2725)Met+(0.0382)Orn;0.761,0.798,0.735,0.748,0.711,0.782,0.717,0.740,(0.1396)+(0.0479)Ser+(-0.1954)Asn+(0.0079)Pro+(-0.0214)Val+(-0.0056)Lys+(0.0960)Phe;0.761,0.797,0.726,0.732,0.755,0.810,0.590,0.722,(1.3761)+(0.0383)Ser+(0.0113)Thr+(-0.0708)Cit+(-0.0080)Arg+(0.0115)Pro+(-0.3079)Met;0.761,0.793,0.784,0.775,0.789,0.843,0.753,0.790,(2.9738)+(0.0037)Gln+(-0.0855)Cit+(-0.0372)Val+(-0.2414)Met+(0.0497)Orn+(0.0573)Leu;0.761,0.795,0.778,0.779,0.765,0.792,0.790,0.781,(1.2415)+(-0.0084)Ala+(0.0120)Pro+(-0.2670)Met+(0.0172)Orn+(-0.0084)Lys+(0.0874)Phe;0.761,0.787,0.742,0.722,0.756,0.802,0.727,0.752,(6.4851)+(-0.0264)Asn+(0.0053)Gly+(-0.1220)His+(-0.0352)Cit+(0.0017)Lys+(0.0150)Leu;0.761,0.805,0.754,0.753,0.739,0.822,0.738,0.763,(3.4037)+(0.0166)Thr+(-0.0237)Arg+(-0.2613)Met+(0.0109)Orn+(0.1686)Ile+(-0.0834)Leu;0.761,0.801,0.750,0.734,0.692,0.842,0.844,0.778,(0.0337)+(0.0502)Ser+(-0.1317)Asn+(-0.0044)Gly+(-0.0067)Thr+(-0.0099)Ala+(0.0539)Ile;0.761,0.796,0.695,0.695,0.623,0.792,0.771,0.721,(0.6756)+(0.0157)Ser+(-0.0027)Pro+(-0.0472)Tyr+(-0.0508)Val+(0.0123)Orn+(0.1514)Ile;0.761,0.791,0.660,0.631,0.609,0.784,0.755,0.695,(1.0906)+(0.0256)Ser+(-0.0063)Gln+(-0.0481)Val+(0.0108)Orn+(0.1787)Ile+(-0.0291)Leu;0.761,0.801,0.756,0.749,0.7

80,0.826,0.675,0.758,(1.5847)+(0.0422)Ser+(-0.0062)Gly+(-0.0928)Cit+(-0.0106)Tyr+(-0.2349)Met+(0.0426)Orn;0.761,0.801,0.762,0.765,0.729,0.844,0.762,0.775,(3.4442)+(0.0416)Ser+(-0.1496)Asn+(-0.0043)Ala+(-0.0517)Cit+(-0.0356)Val+(0.0619)Leu;0.761,0.799,0.748,0.748,0.744,0.798,0.719,0.752,(0.8129)+(0.0537)Ser+(-0.0813)Asn+(-0.0068)Gly+(0.0086)Pro+(-0.2372)Met+(0.0163)Orn;0.761,0.797,0.797,0.806,0.776,0.790,0.822,0.798,(1.8056)+(-0.0027)Ala+(-0.0024)Arg+(-0.0380)Val+(-0.2962)Met+(0.0556)Leu+(0.1057)Phe;0.761,0.801,0.738,0.729,0.691,0.835,0.789,0.761,(0.4357)+(0.0335)Ser+(-0.0036)Gly+(-0.0122)Ala+(-0.0876)Cit+(-0.0392)Tyr+(0.0665)Ile;0.761,0.797,0.781,0.788,0.721,0.852,0.837,0.800,(2.1340)+(0.0032)Gln+(-0.0112)Ala+(-0.0299)Arg+(0.0032)Pro+(0.1760)Ile+(-0.0920)Leu;0.761,0.796,0.749,0.764,0.729,0.796,0.716,0.751,(0.2947)+(0.0450)Ser+(-0.1939)Asn+(0.0055)Thr+(-0.0192)Val+(-0.0064)Lys+(0.0995)Phe;0.761,0.795,0.770,0.771,0.697,0.844,0.867,0.795,(1.7936)+(-0.0016)Gly+(0.0004)Gln+(-0.0119)Ala+(0.0044)Orn+(0.1660)Ile+(-0.0865)Leu;0.761,0.791,0.746,0.718,0.744,0.799,0.783,0.761,(6.7230)+(-0.1180)His+(-0.0214)Cit+(-0.0014)Arg+(0.0050)Pro+(-0.0203)Val+(0.0414)Leu;0.761,0.795,0.751,0.750,0.757,0.809,0.699,0.754,(0.5065)+(0.0461)Ser+(-0.0059)Gly+(0.0026)Gln+(-0.0708)Cit+(0.0115)Pro+(-0.2948)Met;0.761,0.791,0.743,0.736,0.740,0.790,0.733,0.750,(6.5650)+(-0.0322)Asn+(0.0033)Gly+(-0.1172)His+(0.0070)Pro+(-0.0175)Tyr+(0.0070)Lys;0.761,0.803,0.759,0.743,0.770,0.814,0.742,0.767,(6.7589)+(-0.1179)His+(-0.0089)Arg+(-0.0101)Tyr+(-0.0720)Met+(0.0376)Orn+(0.0073)Lys;0.761,0.793,0.721,0.705,0.661,0.807,0.830,0.751,(3.0710)+(-0.0012)Gln+(0.0049)Thr+(-0.0042)Pro+(-0.0532)Val+(-0.0159)Lys+(0.1651)Ile;0.761,0.792,0.774,0.781,0.762,0.780,0.775,0.775,(0.7807)+(0.0030)Gly+(-0.0083)Ala+(0.0131)Pro+(-0.2828)Met+(-0.0058)Lys+(0.0960)Phe;0.761,0.801,0.760,0.758,0.740,0.819,0.769,0.771,(3.6584)+(-0.0068)Asn+(-0.0178)Arg+(-0.2081)Met+(0.0186)

Orn+(0.1678)Ile+(-0.0855)Leu;0.761,0.789,0.753,0.728,0.752,0.805,0.788,0.768,(6.8522)+(-0.1191)His+(-0.0216)Cit+(0.0003)Arg+(-0.0187)Val+(0.0006)Lys+(0.0419)Leu;0.761,0.790,0.772,0.759,0.763,0.824,0.791,0.784,(7.3278)+(-0.0229)Asn+(-0.1030)His+(-0.0061)Ala+(-0.0328)Cit+(0.0107)Pro+(0.0063)Lys;0.761,0.803,0.705,0.711,0.659,0.789,0.723,0.721,(0.5991)+(0.0249)Ser+(-0.0022)Pro+(-0.0458)Tyr+(-0.0149)Lys+(0.1539)Ile+(-0.0739)Leu;0.761,0.799,0.782,0.783,0.713,0.852,0.873,0.805,(2.2618)+(-0.0012)Gly+(0.0017)Gln+(-0.0111)Ala+(-0.0105)Lys+(0.1653)Ile+(-0.0805)Leu;0.761,0.797,0.773,0.772,0.705,0.844,0.865,0.797,(2.7424)+(-0.0005)Gly+(-0.0118)Ala+(0.0035)Pro+(-0.0092)Lys+(0.1609)Ile+(-0.0793)Leu;0.761,0.798,0.774,0.784,0.755,0.763,0.794,0.774,(1.7114)+(0.0106)Pro+(-0.0110)Tyr+(-0.0394)Val+(-0.3356)Met+(0.0507)Leu+(0.1074)Phe;0.761,0.791,0.699,0.696,0.629,0.795,0.783,0.726,(0.5519)+(0.0222)Ser+(-0.0085)Thr+(-0.0013)Pro+(-0.0388)Tyr+(-0.0487)Val+(0.1500)Ile;0.761,0.803,0.721,0.751,0.699,0.762,0.655,0.717,(-0.1367)+(0.0449)Ser+(-0.1580)Asn+(0.0079)Thr+(-0.0631)Tyr+(-0.0130)Lys+(0.0971)Phe;0.761,0.791,0.776,0.764,0.766,0.831,0.793,0.788,(7.5420)+(-0.0173)Asn+(-0.0978)His+(-0.0058)Ala+(-0.0353)Cit+(0.0031)Arg+(0.0109)Pro;0.761,0.797,0.785,0.775,0.767,0.805,0.836,0.796,(0.8557)+(-0.0164)Asn+(-0.0082)Ala+(-0.2698)Met+(0.0043)Orn+(0.0517)Ile+(0.0660)Phe;0.761,0.798,0.779,0.794,0.791,0.786,0.712,0.771,(-0.7537)+(0.0051)Gln+(0.0279)Thr+(-0.0064)Ala+(-0.0906)Cit+(-0.3599)Met+(0.1089)Phe;0.760,0.805,0.748,0.768,0.753,0.745,0.687,0.738,(-0.0105)+(0.0240)Thr+(0.0100)Pro+(-0.0204)Val+(-0.3953)Met+(0.0120)Orn+(0.1235)Phe;0.760,0.798,0.777,0.776,0.709,0.849,0.870,0.801,(2.7659)+(0.0001)Gly+(-0.0048)Thr+(-0.0107)Ala+(-0.0073)Lys+(0.1683)Ile+(-0.0819)Leu;0.760,0.796,0.759,0.775,0.720,0.803,0.764,0.766,(4.6265)+(-0.0503)Asn+(-0.0183)Arg+(-0.0003)Pro+(-0.0409)Tyr+(0.1605)Ile+(-0.0851)Leu;0.760,0.796,0.802,0.798,0.768,0.847,0.855,0.

817,(1.6057)+(-0.0246)Asn+(0.0053)Gln+(-0.0074)Ala+(-0.2132)Met+(-0.0104)Lys+(0.0679)Ile;0.760,0.795,0.773,0.750,0.771,0.819,0.802,0.786,(6.9017)+(0.0154)Asn+(-0.1190)His+(-0.0029)Ala+(0.0064)Tyr+(-0.0953)Met+(0.0209)Leu;0.760,0.792,0.731,0.731,0.663,0.797,0.829,0.755,(3.7390)+(-0.0026)Gly+(0.0002)Gln+(-0.0376)Tyr+(-0.0496)Val+(-0.0098)Lys+(0.1573)Ile;0.760,0.787,0.769,0.750,0.767,0.817,0.791,0.781,(7.4140)+(-0.0063)Asn+(-0.1131)His+(-0.0039)Ala+(-0.0307)Cit+(-0.0048)Tyr+(0.0182)Leu;0.760,0.797,0.752,0.736,0.765,0.766,0.756,0.756,(0.2122)+(0.0035)Gly+(0.0028)Pro+(-0.3359)Met+(-0.0130)Lys+(0.0475)Ile+(0.0774)Phe;0.760,0.796,0.775,0.789,0.753,0.785,0.778,0.776,(1.1835)+(-0.0063)Ala+(0.0136)Pro+(-0.0163)Val+(-0.2847)Met+(0.0233)Orn+(0.1059)Phe;0.760,0.789,0.764,0.753,0.750,0.818,0.786,0.777,(6.8503)+(-0.1151)His+(-0.0054)Ala+(-0.0086)Arg+(0.0098)Pro+(-0.0005)Val+(0.0071)Lys;0.760,0.803,0.728,0.705,0.773,0.772,0.662,0.728,(-0.2279)+(0.0067)Gly+(-0.1000)Cit+(-0.3408)Met+(0.0219)Orn+(0.0434)Ile+(0.0777)Phe;0.760,0.798,0.761,0.780,0.735,0.799,0.739,0.763,(-0.2787)+(0.0450)Ser+(-0.1956)Asn+(0.0020)Gln+(-0.0187)Val+(-0.0056)Lys+(0.0969)Phe;0.760,0.795,0.773,0.790,0.782,0.834,0.667,0.768,(2.9425)+(0.0415)Ser+(-0.0849)Asn+(-0.0598)Cit+(-0.0031)Val+(-0.1483)Met+(0.0020)Lys;0.760,0.788,0.730,0.704,0.745,0.798,0.720,0.742,(5.9779)+(0.0048)Gly+(-0.1274)His+(-0.0358)Cit+(0.0037)Pro+(-0.0008)Lys+(0.0138)Leu;0.760,0.808,0.713,0.710,0.740,0.729,0.652,0.708,(0.2722)+(0.0353)Thr+(-0.0896)Cit+(-0.0403)Tyr+(-0.3908)Met+(0.0476)Ile+(0.0981)Phe;0.760,0.800,0.788,0.802,0.776,0.830,0.746,0.789,(0.8865)+(0.0468)Ser+(-0.1008)Asn+(-0.0074)Gly+(0.0037)Gln+(0.0111)Thr+(-0.2241)Met;0.760,0

.800,0.727,0.720,0.696,0.837,0.734,0.747,(2.7475)+(0.0410)Ser+(-0.2023)Asn+(0.0074)Pro+(-0.0523)Val+(0.0317)Orn+(0.0685)Leu;0.760,0.792,0.766,0.758,0.750,0.816,0.785,0.777,(7.1918)+(-0.1085)His+(-0.0049)Ala+

(-0.0036)Arg+(0.0103)Pro+(-0.0107)Tyr+(0.0018)Val;0.760,0.799,0.762,0.746,0.739,0.826,0.804,0.779,(2.7730)+(0.0192)Thr+(-0.0097)Ala+(0.0079)Pro+(-0.2721)Met+(-0.0114)Lys+(0.0661)Ile;0.760,0.804,0.712,0.739,0.686,0.751,0.668,0.711,(-0.4403)+(0.0479)Ser+(-0.1515)Asn+(0.0062)Pro+(-0.0645)Tyr+(-0.0122)Lys+(0.0922)Phe;0.760,0.804,0.737,0.769,0.708,0.769,0.687,0.733,(-0.7938)+(0.0456)Ser+(-0.1590)Asn+(0.0021)Gln+(-0.0590)Tyr+(-0.0114)Lys+(0.0934)Phe;0.760,0.796,0.773,0.778,0.715,0.843,0.828,0.791,(3.1052)+(0.0010)Gly+(-0.0112)Ala+(-0.0255)Arg+(0.0041)Pro+(0.1724)Ile+(-0.0890)Leu;0.760,0.789,0.719,0.713,0.645,0.790,0.838,0.746,(0.5961)+(-0.0020)Gly+(-0.0072)Pro+(-0.0443)Val+(0.1894)Ile+(-0.0449)Leu+(0.0337)Phe;0.760,0.800,0.730,0.721,0.692,0.820,0.767,0.750,(-0.1780)+(0.0456)Ser+(-0.0062)Gly+(-0.0149)Thr+(-0.0344)Arg+(0.1753)Ile+(-0.0981)Leu;0.760,0.797,0.708,0.680,0.671,0.802,0.792,0.736,(0.8516)+(-0.0004)Gly+(-0.0940)Cit+(-0.0544)Val+(0.0351)Orn+(0.1407)Ile+(0.0235)Phe;0.760,0.801,0.755,0.757,0.732,0.811,0.758,0.764,(3.8093)+(-0.0188)Arg+(-0.0183)Tyr+(-0.1827)Met+(0.0206)Orn+(0.1691)Ile+(-0.0855)Leu;0.760,0.797,0.788,0.797,0.784,0.839,0.735,0.789,(3.0769)+(0.0471)Ser+(-0.0758)Asn+(-0.0045)Gly+(-0.0027)Ala+(-0.0581)Cit+(-0.1343)Met;0.760,0.794,0.748,0.744,0.773,0.827,0.650,0.748,(2.2965)+(0.0392)Ser+(-0.1459)Asn+(-0.0070)Thr+(-0.1022)Cit+(0.0486)Orn+(-0.0077)Leu;0.760,0.792,0.792,0.814,0.764,0.780,0.798,0.789,(-0.0796)+(0.0041)Gln+(-0.0060)Ala+(0.0139)Pro+(-0.0143)Val+(-0.3114)Met+(0.1105)Phe;0.760,0.800,0.753,0.758,0.721,0.826,0.753,0.765,(0.8247)+(0.0472)Ser+(-0.0070)Gly+(-0.0067)Ala+(0.0162)Pro+(-0.0067)Tyr+(-0.2477)Met;0.760,0.790,0.723,0.711,0.662,0.803,0.829,0.751,(2.9474)+(-0.0013)Gly+(-0.0006)Gln+(-0.0451)Val+(-0.0123)Lys+(0.1760)Ile+(-0.0262)Leu;0.760,0.794,0.681,0.691,0.630,0.769,0.699,0.697,(0.7501)+(0.0226)Ser+(-0.0026)Gln+(-0.0016)Pro+(-0.0546)Tyr+(0.1562)Ile+(-0.0812)Leu;0.760,0.801,0.748,0.

747,0.720,0.818,0.760,0.761,(0.2360)+(0.0483)Ser+(-0.0065)Gly+(-0.007
1)Ala+(0.0152)Pro+(-0.2728)Met+(0.0073)Leu;0.760,0.797,0.773,0.790,0.
791,0.779,0.687,0.762,(1.1736)+(0.0322)Thr+(-0.0042)Ala+(-0.0704)Cit+
(-0.0112)Val+(-0.3374)Met+(0.1253)Phe;0.760,0.801,0.730,0.717,0.673,0
.838,0.806,0.758,(0.0168)+(0.0414)Ser+(-0.1493)Asn+(-0.0117)Ala+(0.00
67)Pro+(0.0034)Orn+(0.0463)Ile;0.760,0.799,0.752,0.768,0.703,0.796,0.
778,0.761,(4.2622)+(-0.0813)Asn+(0.0067)Thr+(-0.0472)Tyr+(-0.0021)Lys
+(0.1489)Ile+(-0.0783)Leu;0.760,0.796,0.775,0.767,0.761,0.826,0.790,0
.786,(7.3016)+(-0.0998)His+(-0.0044)Ala+(-0.0005)Arg+(0.0115)Pro+(0.0
007)Tyr+(-0.0724)Met;0.760,0.802,0.757,0.758,0.725,0.811,0.785,0.770,
(3.0588)+(0.0010)Gly+(-0.0122)Tyr+(-0.2248)Met+(0.0011)Lys+(0.1682)Il
e+(-0.0811)Leu;0.760,0.797,0.811,0.834,0.799,0.796,0.787,0.804,(0.543
0)+(-0.0894)Asn+(0.0057)Gln+(-0.0188)Val+(-0.2328)Met+(0.0260)Orn+(0.
1075)Phe;0.760,0.786,0.770,0.749,0.769,0.818,0.793,0.782,(7.2698)+(-0
.0112)Asn+(-0.1151)His+(-0.0042)Ala+(-0.0310)Cit+(0.0027)Lys+(0.0166)
Leu;0.760,0.798,0.766,0.762,0.740,0.780,0.820,0.776,(0.8392)+(-0.0097
)Ala+(0.0099)Pro+(-0.0211)Tyr+(-0.2753)Met+(0.0464)Ile+(0.0744)Phe;0.
760,0.792,0.770,0.765,0.754,0.819,0.786,0.781,(7.4122)+(-0.0123)Asn+(
-0.1036)His+(-0.0047)Ala+(-0.0025)Arg+(0.0106)Pro+(-0.0091)Tyr;0.760,
0.797,0.740,0.746,0.748,0.779,0.678,0.738,(-0.0270)+(0.0465)Ser+(-0.1
743)Asn+(-0.0016)Thr+(-0.0763)Cit+(-0.0156)Leu+(0.0840)Phe;0.760,0.80
6,0.757,0.783,0.756,0.743,0.698,0.745,(-0.9407)+(0.0029)Gln+(0.0246)T
hr+(0.0101)Pro+(-0.0193)Val+(-0.4159)Met+(0.1260)Phe;0.760,0.799,0.72
1,0.710,0.703,0.826,0.715,0.739,(0.2714)+(0.0358)Ser+(-0.0045)Gly+(-0
.0562)Cit+(-0.0312)Arg+(0.1679)Ile+(-0.0936)Leu;0.760,0.798,0.785,0.7
95,0.724,0.852,0.839,0.802,(2.0758)+(0.0035)Gln+(-0.0016)Thr+(-0.0104
)Ala+(-0.0292)Arg+(0.1808)Ile+(-0.0933)Leu;0.760,0.797,0.725,0.730,0.
750,0.807,0.601,0.722,(1.3114)+(0.0376)Ser+(0.0097)Thr+(-0.0759)Cit+(

0.0117)Pro+(-0.0049)Tyr+(-0.3051)Met;0.760,0.796,0.739,0.700,0.766,0.813,0.732,0.753,(6.1386)+(-0.1239)His+(-0.0612)Cit+(-0.0013)Arg+(0.0016)Pro+(0.0467)Orn+(0.0051)Leu;0.760,0.793,0.744,0.729,0.746,0.800,0.743,0.754,(6.5914)+(-0.0173)Asn+(0.0039)Gly+(-0.1257)His+(-0.0023)Arg+(-0.0095)Tyr+(0.0157)Leu;0.760,0.792,0.761,0.741,0.771,0.768,0.786,0.766,(0.8297)+(0.0026)Pro+(-0.3178)Met+(0.0077)Orn+(-0.0137)Lys+(0.0438)Ile+(0.0714)Phe;0.760,0.795,0.740,0.752,0.708,0.810,0.725,0.749,(3.6736)+(0.0016)Gly+(-0.0661)Cit+(-0.0126)Arg+(-0.0448)Tyr+(0.1666)Ile+(-0.0863)Leu;0.760,0.791,0.775,0.766,0.764,0.826,0.783,0.785,(7.6866)+(-0.0132)Asn+(-0.0958)His+(-0.0054)Ala+(-0.0321)Cit+(0.0114)Pro+(-0.0076)Tyr;0.760,0.798,0.774,0.775,0.704,0.848,0.865,0.798,(2.2162)+(0.0012)Gln+(-0.0118)Ala+(0.0031)Pro+(-0.0106)Lys+(0.1612)Ile+(-0.0792)Leu;0.760,0.800,0.713,0.709,0.682,0.816,0.716,0.731,(-0.5785)+(0.0372)Ser+(-0.0178)Thr+(-0.0363)Arg+(0.0134)Orn+(0.1764)Ile+(-0.1002)Leu;0.760,0.796,0.768,0.783,0.782,0.824,0.662,0.763,(2.6227)+(0.0424)Ser+(-0.0809)Asn+(-0.0644)Cit+(0.0021)Arg+(-0.1592)Met+(-0.0000)Lys;0.760,0.795,0.748,0.758,0.714,0.813,0.744,0.757,(4.0349)+(-0.0649)Cit+(-0.0100)Arg+(-0.0446)Tyr+(-0.0022)Lys+(0.1647)Ile+(-0.0845)Leu;0.760,0.793,0.738,0.717,0.745,0.798,0.737,0.749,(6.2574)+(-0.0221)Asn+(0.0044)Gly+(-0.1267)His+(-0.0044)Arg+(0.0041)Pro+(0.0118)Leu;0.760,0.793,0.781,0.766,0.758,0.830,0.832,0.796,(3.0404)+(-0.0084)Asn+(-0.0078)Ala+(-0.1972)Met+(0.0162)Orn+(-0.0108)Lys+(0.0651)Ile;0.760,0.789,0.774,0.753,0.775,0.820,0.789,0.785,(7.3075)+(0.0134)Asn+(-0.1112)His+(-0.0032)Ala+(-0.0291)Cit+(-0.0773)Met+(0.0215)Leu;0.760,0.805,0.768,0.783,0.733,0.829,0.757,0.776,(-0.1824)+(0.0452)Ser+(-0.1530)Asn+(-0.0065)Ala+(-0.0101)Lys+(-0.0067)Leu+(0.0810)Phe;0.760,0.799,0.773,0.787,0.796,0.763,0.696,0.761,(-0.6596)+(-0.0811)Asn+(0.0074)Gln+(0.0293)Thr+(-0.0899)Cit+(-0.3505)Met+(0.1023)Phe;0.760,0.794,0.751,0.736,0.762,0.769

,0.757,0.756,(0.2813)+(0.0033)Gly+(-0.3240)Met+(0.0049)Orn+(-0.0138)Lys+(0.0495)Ile+(0.0746)Phe;0.760,0.791,0.764,0.746,0.773,0.771,0.787,0.769,(1.0460)+(-0.0099)Asn+(-0.2988)Met+(0.0092)Orn+(-0.0135)Lys+(0.0452)Ile+(0.0696)Phe;0.760,0.789,0.745,0.733,0.745,0.796,0.739,0.753,(6.4390)+(-0.0376)Asn+(0.0037)Gly+(-0.1180)His+(0.0061)Pro+(-0.0022)Val+(0.0061)Lys;0.760,0.807,0.724,0.722,0.758,0.817,0.595,0.723,(1.0540)+(0.0374)Ser+(-0.0978)Cit+(0.0100)Pro+(-0.0119)Tyr+(-0.2745)Met+(0.0363)Orn;0.760,0.798,0.773,0.796,0.767,0.845,0.677,0.771,(1.8903)+(0.0382)Ser+(-0.0898)Asn+(0.0115)Thr+(-0.0027)Ala+(0.0009)Tyr+(-0.1883)Met;0.760,0.798,0.756,0.771,0.706,0.798,0.789,0.766,(4.1154)+(-0.0729)Asn+(0.0005)Gly+(-0.0438)Tyr+(-0.0005)Lys+(0.1520)Ile+(-0.0804)Leu;0.760,0.799,0.753,0.732,0.762,0.811,0.749,0.763,(6.2866)+(0.0047)Gly+(-0.1238)His+(0.0010)Arg+(0.0073)Tyr+(-0.1120)Met+(0.0207)Leu;0.760,0.798,0.764,0.768,0.765,0.807,0.719,0.765,(1.2059)+(0.0504)Ser+(-0.0840)Asn+(-0.0068)Gly+(0.0125)Thr+(-0.2444)Met+(0.0076)Leu;0.760,0.794,0.769,0.763,0.762,0.830,0.753,0.777,(6.9139)+(0.0013)Asn+(0.0036)Gly+(-0.1151)His+(-0.0019)Ala+(0.0052)Val+(-0.0568)Met;0.760,0.806,0.761,0.757,0.752,0.856,0.724,0.772,(3.4457)+(0.0277)Thr+(-0.0484)Val+(-0.3150)Met+(0.0261)Orn+(-0.0078)Lys+(0.0812)Leu;0.760,0.795,0.756,0.775,0.731,0.790,0.732,0.757,(-0.2209)+(0.0434)Ser+(-0.2104)Asn+(0.0018)Gln+(0.0028)Thr+(-0.0207)Val+(0.0967)Phe;0.760,0.794,0.768,0.785,0.766,0.771,0.726,0.762,(1.3295)+(-0.0129)Arg+(0.0098)Pro+(-0.0188)Val+(-0.2979)Met+(0.0276)Orn+(0.1069)Phe;0.760,0.796,0.733,0.751,0.746,0.801,0.609,0.727,(1.3021)+(0.0428)Ser+(-0.0766)Asn+(0.0112)Thr+(-0.0139)Arg+(0.0097)Pro+(-0.2454)Met;0.760,0.803,0.760,0.760,0.727,0.810,0.793,0.772,(3.2317)+(0.0010)Pro+(-0.0142)Tyr+(-0.2212)Met+(0.0013)Lys+(0.1666)Ile+(-0.0811)Leu;0.760,0.800,0.751,0.753,0.782,0.842,0.614,0.748,(1.8361)+(0.0319)Ser+(-0.0975)Cit+(-0.0024)Tyr+(-0.0055)Val+(-0.2279)Met

+(0.0468)Orn;0.760,0.792,0.732,0.716,0.735,0.788,0.728,0.742,(6.2910)+(0.0035)Gly+(-0.1268)His+(-0.0051)Arg+(0.0052)Pro+(-0.0165)Tyr+(0.0132)Leu;0.760,0.787,0.733,0.724,0.681,0.812,0.809,0.757,(2.6715)+(-0.0022)Thr+(-0.0659)Cit+(-0.0047)Pro+(-0.0380)Val+(0.1881)Ile+(-0.0429)Leu;0.760,0.791,0.721,0.701,0.670,0.793,0.826,0.747,(1.8644)+(-0.0019)Gln+(-0.0630)Cit+(-0.0045)Pro+(-0.0545)Val+(0.1552)Ile+(0.0353)Phe;0.760,0.799,0.728,0.721,0.685,0.834,0.762,0.750,(0.3608)+(0.0295)Ser+(-0.0005)Gln+(-0.0125)Ala+(-0.0929)Cit+(-0.0357)Tyr+(0.0685)Ile;0.760,0.800,0.763,0.778,0.760,0.830,0.684,0.763,(1.1621)+(0.0404)Ser+(-0.0858)Asn+(0.0115)Thr+(-0.0035)Ala+(-0.2152)Met+(0.0111)Leu;0.760,0.788,0.764,0.761,0.756,0.817,0.750,0.771,(6.9899)+(-0.0247)Asn+(0.0036)Gly+(-0.1162)His+(-0.0023)Ala+(-0.0079)Arg+(0.0092)Lys;0.760,0.801,0.763,0.779,0.728,0.819,0.757,0.771,(-0.3255)+(0.0419)Ser+(-0.1748)Asn+(-0.0071)Ala+(0.0156)Orn+(-0.0140)Leu+(0.0762)Phe;0.760,0.790,0.728,0.714,0.666,0.807,0.839,0.757,(3.0926)+(-0.0011)Gly+(-0.0006)Gln+(-0.0037)Pro+(-0.0526)Val+(-0.0141)Lys+(0.1627)Ile;0.760,0.807,0.747,0.742,0.787,0.847,0.603,0.745,(1.9368)+(0.0347)Ser+(-0.1050)Cit+(-0.0044)Tyr+(-0.2019)Met+(0.0502)Orn+(-0.0108)Lys;0.760,0.799,0.789,0.768,0.773,0.861,0.823,0.806,(4.6523)+(-0.0669)Asn+(0.0175)Thr+(-0.0117)Ala+(-0.0913)Cit+(-0.0153)Lys+(0.0656)Ile;0.760,0.798,0.702,0.721,0.669,0.733,0.699,0.706,(-1.4463)+(0.0461)Ser+(-0.1750)Asn+(0.0010)Gln+(-0.0694)Tyr+(0.0277)Ile+(0.0727)Phe;0.759,0.789,0.767,0.751,0.758,0.823,0.788,0.780,(6.9910)+(-0.1086)His+(-0.0063)Ala+(-0.0343)Cit+(0.0103)Pro+(0.0016)Val+(0.0043)Lys;0.759,0.797,0.753,0.753,0.728,0.836,0.745,0.765,(3.6152)+(-0.0876)Asn+(0.0054)Gly+(-0.0817)Cit+(-0.0037)Pro+(0.1604)Ile+(-0.0824)Leu;0.759,0.797,0.757,0.758,0.715,0.796,0.811,0.770,(1.4060)+(-0.1214)Asn+(0.0031)Gly+(-0.0054)Pro+(0.1526)Ile+(-0.0938)Leu+(0.0612)Phe;0.759,0.800,0.770,0.788,0.766,0.842,0.676,0.768,(1.6603)+(0.

0408)Ser+(-0.0849)Asn+(-0.0034)Ala+(-0.0112)Arg+(-0.1513)Met+(0.0258)Orn;0.759,0.796,0.771,0.770,0.704,0.838,0.866,0.794,(2.1812)+(-0.0001)Gly+(-0.0103)Thr+(-0.0110)Ala+(0.0112)Orn+(0.1693)Ile+(-0.0877)Leu;0.759,0.792,0.745,0.729,0.760,0.811,0.710,0.753,(6.9691)+(-0.1272)His+(0.0187)Thr+(-0.0247)Cit+(-0.0101)Arg+(0.0009)Val+(0.0007)Lys;0.759,0.799,0.770,0.797,0.773,0.838,
0.644,0.763,(2.1891)+(0.0380)Ser+(-0.0824)Asn+(0.0141)Thr+(-0.0026)Ala+(-0.0112)Arg+(-0.1842)Met;0.759,0.799,0.785,0.812,0.772,0.849,0.699,0.783,(1.1194)+(0.0359)Ser+(-0.1014)Asn+(0.0031)Gln+(0.0104)Thr+(-0.0027)Ala+(-0.1917)Met;0.759,0.799,0.765,0.768,0.736,0.815,0.780,0.775,(4.0223)+(-0.0045)Asn+(-0.0134)Arg+(-0.0139)Tyr+(-0.1835)Met+(0.1702)Ile+(-0.0828)Leu;0.759,0.799,0.754,0.740,0.696,0.845,0.843,0.781,(-0.0292)+(0.0469)Ser+(-0.1491)Asn+(-0.0049)Gly+(0.0014)Gln+(-0.0101)Ala+(0.0503)Ile;0.759,0.795,0.705,0.691,0.701,0.828,0.661,0.720,(0.0357)+(0.0271)Ser+(-0.0805)Cit+(-0.0312)Arg+(0.0248)Orn+(0.1637)Ile+(-0.0945)Leu;0.759,0.791,0.742,0.725,0.748,0.798,0.738,0.752,(6.3541)+(-0.0235)Asn+(0.0043)Gly+(-0.1290)His+(-0.0053)Arg+(0.0037)Lys+(0.0127)Leu;0.759,0.799,0.740,0.731,0.768,0.816,0.648,0.741,(1.8098)+(0.0409)Ser+(-0.1463)Asn+(-0.0069)Thr+(-0.0993)Cit+(-0.0048)Arg+(0.0446)Orn;0.759,0.792,0.732,0.730,0.663,0.797,0.830,0.755,(3.7861)+(-0.0024)Gly+(-0.0008)Pro+(-0.0366)Tyr+(-0.0497)Val+(-0.0096)Lys+(0.1585)Ile;0.759,0.787,0.765,0.761,0.754,0.818,0.759,0.773,(6.9170)+(-0.0285)Asn+(0.0032)Gly+(-0.1154)His+(-0.0022)Ala+(-0.0035)Tyr+(0.0078)Lys;0.759,0.800,0.738,0.724,0.685,0.838,0.816,0.766,(-0.3176)+(0.0449)Ser+(-0.1360)Asn+(-0.0090)Thr+(-0.0099)Ala+(0.0093)Orn+(0.0531)Ile;0.759,0.797,0.791,0.771,0.776,0.839,0.841,0.807,(3.6284)+(-0.0118)Asn+(-0.0097)Ala+(-0.0846)Cit+(0.0110)Arg+(-0.1854)Met+(0.0726)Ile;0.759,0.798,0.676,0.684,0.628,0.765,0.691,0.692,(0.8199)+(0.0224)Ser+(-0.0030)Gln+(-0.0572)T

yr+(0.0067)Orn+(0.1525)Ile+(-0.0810)Leu;0.759,0.793,0.766,0.747,0.775
,0.767,0.793,0.771,(0.9984)+(-0.0075)Asn+(0.0028)Pro+(-0.3129)Met+(-0
.0123)Lys+(0.0446)Ile+(0.0731)Phe;0.759,0.804,0.754,0.757,0.735,0.823
,0.735,0.762,(3.3545)+(0.0009)Gly+(0.0180)Thr+(-0.0222)Arg+(-0.2653)M
et+(0.1697)Ile+(-0.0818)Leu;0.759,0.794,0.772,0.758,0.743,0.848,0.811
,0.790,(3.1968)+(-0.0860)Asn+(0.0062)Gly+(-0.0121)Ala+(-0.1000)Cit+(0
.0074)Arg+(0.0640)Ile;0.759,0.791,0.759,0.751,0.751,0.814,0.760,0.769
,(6.5265)+(0.0029)Gly+(-0.1238)His+(-0.0028)Ala+(-0.0061)Tyr+(0.0035)
Val+(0.0051)Lys;0.759,0.792,0.705,0.682,0.660,0.784,0.801,0.732,(1.80
53)+(0.0020)Gly+(-0.0028)Gln+(-0.0660)Cit+(-0.0547)Val+(0.1513)Ile+(0
.0345)Phe;0.759,0.788,0.737,0.758,0.699,0.792,0.719,0.742,(2.5351)+(0
.0028)Gln+(-0.0345)Arg+(-0.0521)Tyr+(0.0195)Orn+(0.1662)Ile+(-0.0936)
Leu;0.759,0.804,0.717,0.702,0.723,0.767,0.709,0.725,(-1.4908)+(0.0440
)Ser+(-0.1990)Asn+(0.0035)Gln+(-0.0888)Cit+(0.0235)Ile+(0.0474)Phe;0.
759,0.797,0.787,0.784,0.756,0.824,0.832,0.799,(1.3108)+(0.0044)Gln+(-
0.0097)Ala+(-0.0120)Arg+(0.0086)Pro+(-0.2535)Met+(0.0584)Ile;0.759,0.
795,0.782,0.771,0.776,0.831,0.789,0.792,(7.6123)+(-0.0924)His+(-0.005
0)Ala+(-0.0309)Cit+(0.0122)Pro+(0.0018)Tyr+(-0.0675)Met;0.759,0.798,0
.708,0.713,0.651,0.790,0.751,0.726,(-0.2896)+(0.0290)Ser+(-0.0205)Thr
+(-0.0441)Tyr+(0.0109)Orn+(0.1614)Ile+(-0.0865)Leu;0.759,0.791,0.785,
0.803,0.782,0.784,0.742,0.778,(1.8582)+(-0.0738)Asn+(0.0025)Gly+(-0.0
189)Val+(-0.2141)Met+(0.0302)Orn+(0.1094)Phe;0.759,0.787,0.731,0.721,
0.678,0.812,0.806,0.754,(2.5486)+(-0.0000)Gln+(-0.0672)Cit+(-0.0050)P
ro+(-0.0384)Val+(0.1880)Ile+(-0.0424)Leu;0.759,0.803,0.814,0.830,0.81
5,0.810,0.776,0.808,(6.3573)+(-0.0001)Gly+(-0.0034)Ala+(-0.0113)Arg+(
0.0039)Tyr+(0.0059)Lys+(-0.1406)Trp;0.759,0.804,0.788,0.795,0.758,0.8
60,0.779,0.798,(2.6406)+(0.0027)Gln+(0.0287)Thr+(-0.0033)Ala+(-0.0452
)Val+(-0.3290)Met+(0.0801)Leu;0.759,0.803,0.814,0.830,0.814,0.809,0.7

76,0.807,(6.3200)+(-0.0035)Ala+(-0.0112)Arg+(0.0037)Tyr+(0.0007)Val+(0.0056)Lys+(-0.1412)Trp;0.759,0.800,0.717,0.716,0.681,0.816,0.721,0.733,(-0.6017)+(0.0374)Ser+(0.0003)Gln+(-0.0159)Thr+(-0.0353)Arg+(0.1776)Ile+(-0.0987)Leu;0.759,0.806,0.762,0.755,0.735,0.859,0.765,0.779,(0.4694)+(0.0398)Ser+(-0.0030)Ala+(0.0244)Tyr+(-0.0407)Val+(-0.3114)Met+(0.0769)Leu;0.759,0.790,0.777,0.755,0.756,0.842,0.833,0.797,(3.9529)+(-0.0877)Asn+(0.0114)Thr+(-0.0139)Ala+(-0.0899)Cit+(0.0073)Pro+(0.0512)Ile;0.759,0.790,0.762,0.754,0.756,0.821,0.757,0.772,(6.8762)+(0.0033)Gly+(-0.1194)His+(-0.0027)Ala+(-0.0041)Arg+(-0.0011)Tyr+(0.0043)Val;0.759,0.790,0.770,0.765,0.762,0.825,0.758,0.777,(7.2385)+(-0.0164)Asn+(0.0033)Gly+(-0.1108)His+(-0.0019)Ala+(-0.0030)Arg+(0.0030)Tyr;0.759,0.785,0.722,0.703,0.672,0.804,0.818,0.749,(2.7728)+(-0.0012)Gln+(-0.0002)Thr+(-0.0607)Cit+(-0.0035)Pro+(-0.0522)Val+(0.1564)Ile;0.759,0.803,0.761,0.768,0.735,0.830,0.746,0.770,(1.1225)+(0.0486)Ser+(-0.0066)Gly+(-0.0066)Ala+(-0.0134)Arg+(0.0162)Pro+(-0.2403)Met;0.759,0.801,0.731,0.718,0.674,0.840,0.809,0.760,(-0.0219)+(0.0414)Ser+(-0.1489)Asn+(0.0002)Gln+(-0.0117)Ala+(0.0068)Pro+(0.0474)Ile;0.759,0.795,0.775,0.763,0.744,0.822,0.836,0.791,(3.2303)+(-0.0096)Ala+(0.0092)Pro+(-0.0075)Tyr+(-0.2089)Met+(-0.0076)Lys+(0.0630)Ile;0.759,0.794,0.762,0.763,0.687,0.839,0.859,0.787,(1.7137)+(-0.0001)Gln+(-0.0126)Ala+(0.0032)Pro+(0.0028)Orn+(0.1625)Ile+(-0.0853)Leu;0.759,0.788,0.736,0.727,0.731,0.790,0.728,0.744,(6.2391)+(0.0025)Gly+(-0.1231)His+(0.0066)Pro+(-0.0186)Tyr+(0.0002)Val+(0.0050)Lys;0.759,0.800,0.758,0.755,0.729,0.815,0.787,0.772,(2.8375)+(0.0014)Gly+(0.0002)Pro+(-0.2464)Met+(0.0005)Lys+(0.1676)Ile+(-0.0812)Leu;0.759,0.791,0.711,0.688,0.657,0.811,0.814,0.742,(0.4274)+(0.0277)Ser+(-0.0060)Gly+(-0.0599)Cit+(-0.0045)Pro+(-0.0516)Val+(0.1535)Ile;0.759,0.800,0.786,0.794,0.774,0.851,0.741,0.790,(2.5932)+(0.0479)Ser+(-0.1014)Asn+(-0.0071)Gly+(-0.0097)Val+(-0.1493)

Met+(0.0311)Orn;0.759,0.800,0.752,0.732,0.760,0.809,0.748,0.762,(6.1096)+(0.0047)Gly+(-0.1267)His+(0.0054)Tyr+(-0.1253)Met+(0.0062)Lys+(0.0186)Leu;0.759,0.794,0.747,0.746,0.775,0.827,0.634,0.745,(2.5326)+(0.0373)Ser+(-0.1490)Asn+(-0.0983)Cit+(-0.0069)Arg+(0.0464)Orn+(-0.0084)Leu;0.759,0.794,0.753,0.765,0.753,0.780,0.700,0.750,(-0.8291)+(0.0431)Ser+(-0.1939)Asn+(0.0039)Gln+(-0.0828)Cit+(-0.0159)Leu+(0.0814)Phe;0.759,0.789,0.689,0.680,0.620,0.796,0.780,0.719,(-0.5013)+(0.0168)Ser+(-0.0071)Pro+(-0.0447)Val+(0.0047)Orn+(0.1891)Ile+(-0.0389)Leu;0.759,0.789,0.774,0.773,0.774,0.835,0.732,0.779,(7.5450)+(-0.0098)Asn+(0.0042)Gly+(-0.0997)His+(-0.0015)Ala+(-0.0323)Cit+(-0.0335)Met;0.759,0.795,0.768,0.769,0.693,0.844,0.869,0.794,(1.8266)+(-0.0015)Gly+(0.0005)Gln+(-0.0125)Ala+(0.0033)Pro+(0.1630)Ile+(-0.0855)Leu;0.759,0.794,0.773,0.774,0.703,0.840,0.869,0.796,(1.7489)+(0.0012)Gln+(-0.0116)Thr+(-0.0111)Ala+(0.0097)Orn+(0.1703)Ile+(-0.0884)Leu;0.759,0.794,0.756,0.735,0.761,0.794,0.774,0.766,(6.3865)+(0.0124)Asn+(-0.1204)His+(0.0067)Pro+(-0.1394)Met+(0.0064)Lys+(0.0137)Leu;0.759,0.788,0.746,0.734,0.756,0.805,0.715,0.752,(6.7692)+(-0.0272)Asn+(0.0049)Gly+(-0.1106)His+(-0.0346)Cit+(0.0061)Pro+(0.0008)Val;0.759,0.787,0.748,0.738,0.751,0.801,0.730,0.755,(6.7302)+(-0.0225)Asn+(0.0038)Gly+(-0.1152)His+(-0.0051)Arg+(0.0063)Pro+(-0.0004)Val;0.759,0.799,0.752,0.735,0.760,0.806,0.742,0.761,(6.2595)+(0.0046)Gly+(-0.1257)His+(-0.0026)Arg+(-0.1149)Met+(0.0071)Lys+(0.0182)Leu;0.759,0.796,0.777,0.782,0.721,0.850,0.827,0.795,(3.1883)+(0.0011)Gly+(-0.0102)Ala+(-0.0243)Arg+(-0.0013)Lys+(0.1772)Ile+(-0.0893)Leu;0.759,0.795,0.771,0.774,0.720,0.844,0.817,0.789,(3.0128)+(0.0006)Gly+(-0.0104)Ala+(-0.0290)Arg+(0.0176)Orn+(0.1752)Ile+(-0.0922)Leu;0.759,0.801,0.747,0.760,0.774,0.748,0.657,0.735,(0.8443)+(0.0309)Thr+(-0.0656)Cit+(0.0100)Pro+(-0.0165)Val+(-0.3947)Met+(0.1269)Phe;0.759,0.787,0.752,0.730,0.749,0.801,0.781,0.765,(6.9876)+(-0.11

73)His+(-0.0211)Cit+(-0.0097)Tyr+(-0.0178)Val+(0.0018)Lys+(0.0411)Leu;0.759,0.800,0.773,0.774,0.729,0.806,0.842,0.788,(1.0006)+(-0.1270)Asn+(0.0041)Gln+(-0.0073)Lys+(0.1402)Ile+(-0.0875)Leu+(0.0542)Phe;0.759,0.798,0.763,0.754,0.739,0.840,0.784,0.779,(4.3767)+(-0.0796)Asn+(0.0061)Thr+(-0.0755)Cit+(-0.0059)Lys+(0.1480)Ile+(-0.0783)Leu;0.759,0.795,0.775,0.753,0.772,0.819,0.806,0.788,(7.0145)+(-0.1173)His+(-0.0029)Ala+(0.0033)Arg+(0.0049)Tyr+(-0.0842)Met+(0.0204)Leu;0.759,0.794,0.766,0.766,0.693,0.840,0.864,0.791,(1.9271)+(-0.0014)Gly+(-0.0125)Ala+(0.0032)Pro+(0.0038)Orn+(0.1620)Ile+(-0.0855)Leu;0.759,0.786,0.679,0.652,0.626,0.789,0.783,0.713,(0.9716)+(0.0317)Ser+(-0.0053)Gln+(-0.0114)Thr+(-0.0024)Pro+(-0.0532)Val+(0.1586)Ile;0.759,0.783,0.725,0.719,0.656,0.798,0.834,0.752,(1.9788)+(-0.0014)Gly+(-0.0049)Thr+(-0.0052)Pro+(-0.0428)Val+(0.1868)Ile+(-0.0395)Leu;0.759,0.795,0.748,0.759,0.712,0.811,0.745,0.757,(3.9517)+(-0.0638)Cit+(-0.0116)Arg+(-0.0012)Pro+(-0.0447)Tyr+(0.1676)Ile+(-0.0865)Leu;0.759,0.791,0.802,0.789,0.768,0.856,0.864,0.819,(2.2944)+(-0.1013)Asn+(0.0063)Gln+(-0.0134)Ala+(-0.0957)Cit+(0.0065)Pro+(0.0520)Ile;0.759,0.789,0.753,0.731,0.750,0.802,0.784,0.767,(7.0067)+(-0.1166)His+(-0.0227)Cit+(0.0018)Arg+(-0.0088)Tyr+(-0.0178)Val+(0.0420)Leu;0.759,0.791,0.718,0.704,0.658,0.802,0.821,0.746,(2.8829)+(-0.0010)Gln+(0.0009)Thr+(-0.0454)Val+(-0.0127)Lys+(0.1761)Ile+(-0.0255)Leu;0.759,0.795,0.773,0.788,0.782,0.834,0.668,0.768,(2.9552)+(0.0415)Ser+(-0.0836)Asn+(-0.0615)Cit+(0.0018)Arg+(-0.0025)Val+(-0.1454)Met;0.759,0.797,0.679,0.659,0.629,0.773,0.771,0.708,(-2.6082)+(0.0407)Ser+(-0.0031)Gln+(-0.0294)Thr+(0.1705)Ile+(-0.1047)Leu+(0.0537)Phe;0.759,0.802,0.764,0.762,0.778,0.824,0.696,0.765,(4.4029)+(0.0354)Thr+(-0.0526)Cit+(-0.0060)Arg+(-0.0426)Val+(-0.3293)Met+(0.0763)Leu;0.759,0.794,0.757,0.733,0.762,0.798,0.777,0.767,(6.5569)+(0.0159)Asn+(-0.1178)His+(0.0012)Arg+(0.0064)Pro+(-0.1263)Met+(0.0163)Leu;0.75

9,0.792,0.775,0.755,0.778,0.818,0.792,0.786,(7.2636)+(-0.1124)His+(-0.0032)Ala+(-0.0285)Cit+(-0.0835)Met+(0.0062)Lys+(0.0188)Leu;0.759,0.787,0.662,0.629,0.612,0.785,0.764,0.698,(1.1848)+(0.0259)Ser+(-0.0067)Gln+(-0.0046)Pro+(-0.0567)Val+(0.0148)Orn+(0.1617)Ile;0.759,0.798,0.747,0.748,0.784,0.834,0.607,0.743,(1.0045)+(0.0342)Ser+(0.0012)Gln+(-0.0956)Cit+(-0.0067)Arg+(-0.2490)Met+(0.0404)Orn;0.759,0.797,0.779,0.766,0.752,0.824,0.839,0.795,(3.1916)+(-0.0097)Ala+(-0.0028)Arg+(0.0090)Pro+(-0.2167)Met+(-0.0072)Lys+(0.0627)Ile;0.759,0.790,0.727,0.712,0.671,0.798,0.832,0.753,(1.2804)+(-0.0025)Thr+(-0.0656)Cit+(-0.0049)Pro+(-0.0536)Val+(0.1530)Ile+(0.0331)Phe;0.759,0.796,0.776,0.783,0.718,0.849,0.826,0.794,(3.1151)+(0.0010)Gly+(0.0007)Thr+(-0.0103)Ala+(-0.0255)Arg+(0.1777)Ile+(-0.0903)Leu;0.759,0.796,0.763,0.767,0.717,0.799,0.821,0.776,(0.5941)+(-0.1441)Asn+(0.0022)Gly+(0.0035)Gln+(0.1412)Ile+(-0.0912)Leu+(0.0554)Phe;0.759,0.794,0.756,0.744,0.767,0.768,0.758,0.759,(0.4688)+(-0.0141)Asn+(0.0037)Gly+(-0.3128)Met+(-0.0124)Lys+(0.0494)Ile+(0.0758)Phe;0.759,0.793,0.715,0.692,0.680,0.815,0.774,0.740,(1.8881)+(-0.0002)Gly+(-0.0953)Cit+(-0.0407)Val+(0.0356)Orn+(0.1736)Ile+(-0.0397)Leu;0.759,0.790,0.758,0.734,0.770,0.798,0.767,0.767,(6.8561)+(0.0160)Asn+(-0.1118)His+(-0.0257)Cit+(0.0065)Pro+(-0.1204)Met+(0.0163)Leu;0.759,0.797,0.692,0.709,0.662,0.725,0.690,0.696,(-1.2434)+(0.0469)Ser+(-0.1710)Asn+(0.0024)Pro+(-0.0714)Tyr+(0.0255)Ile+(0.0733)Phe;0.758,0.800,0.738,0.742,0.778,0.825,0.584,0.732,(1.3941)+(0.0325)Ser+(0.0058)Thr+(-0.0992)Cit+(-0.0058)Tyr+(-0.2604)Met+(0.0398)Orn;0.758,0.784,0.718,0.712,0.651,0.794,0.819,0.744,(2.3283)+(-0.0014)Gln+(-0.0042)Thr+(-0.0049)Pro+(-0.0435)Val+(0.1869)Ile+(-0.0377)Leu;0.758,0.805,0.744,0.749,0.709,0.840,0.734,0.758,(3.0923)+(0.0390)Ser+(-0.1835)Asn+(-0.0199)Tyr+(-0.0479)Val+(0.0368)Orn+(0.0695)Leu;0.758,0.795,0.792,0.787,0.757,0.841,0.842,0

.807,(1.3465)+(0.0011)Gly+(0.0045)Gln+(-0.0077)Ala+(-0.2337)Met+(-0.0113)Lys+(0.0716)Ile;0.758,0.805,0.761,0.772,0.724,0.829,0.758,0.771,(-0.2553)+(0.0452)Ser+(-0.1514)Asn+(0.0014)Thr+(-0.0071)Ala+(-0.0122)Lys+(0.0752)Phe;0.758,0.798,0.697,0.713,0.668,0.733,0.688,0.700,(-1.2401)+(0.0465)Ser+(-0.1720)Asn+(-0.0698)Tyr+(0.0057)Orn+(0.0264)Ile+(0.0720)Phe;0.758,0.798,0.757,0.772,0.707,0.799,0.793,0.768,(4.1756)+(-0.0711)Asn+(-0.0007)Pro+(-0.0437)Tyr+(-0.0005)Lys+(0.1530)Ile+(-0.0807)Leu;0.758,0.795,0.774,0.776,0.761,0.774,0.796,0.777,(-0.7603)+(0.0052)Gln+(-0.0244)Tyr+(-0.3118)Met+(-0.0147)Lys+(0.0495)Ile+(0.0812)Phe;0.758,0.785,0.715,0.697,0.668,0.796,0.805,0.741,(2.7267)+(0.0012)Gly+(-0.0016)Gln+(-0.0014)Thr+(-0.0622)Cit+(-0.0522)Val+(0.1531)Ile;0.758,0.794,0.776,0.785,0.781,0.821,0.712,0.775,(2.7137)+(0.0489)Ser+(-0.0759)Asn+(-0.0048)Gly+(-0.0566)Cit+(-0.1616)Met+(-0.0003)Lys;0.758,0.793,0.784,0.766,0.763,0.838,0.837,0.801,(2.9762)+(-0.1021)Asn+(0.0133)Thr+(-0.0130)Ala+(-0.0908)Cit+(0.0477)Ile+(0.0392)Phe;0.758,0.792,0.763,0.751,0.764,0.831,0.744,0.773,(6.8344)+(0.0045)Gly+(-0.1146)His+(-0.0037)Ala+(-0.0408)Cit+(0.0021)Arg+(0.0064)Val;0.758,0.790,0.774,0.794,0.754,0.775,0.765,0.772,(0.9776)+(0.0030)Gly+(-0.0063)Ala+(0.0147)Pro+(-0.0141)Val+(-0.2927)Met+(0.1136)Phe;0.758,0.787,0.759,0.750,0.754,0.817,0.750,0.768,(6.6332)+(0.0034)Gly+(-0.1234)His+(-0.0029)Ala+(-0.0086)Arg+(0.0027)Val+(0.0069)Lys;0.758,0.808,0.708,0.688,0.718,0.768,0.696,0.718,(-0.7729)+(0.0466)Ser+(-0.1811)Asn+(-0.0831)Cit+(-0.0021)Pro+(0.0272)Ile+(0.0490)Phe;0.758,0.792,0.701,0.680,0.627,0.791,0.845,0.736,(-0.8907)+(0.0293)Ser+(-0.0091)Gly+(-0.0057)Pro+(-0.0573)Val+(0.1545)Ile+(0.0208)Phe;0.758,0.795,0.757,0.732,0.792,0.773,0.740,0.759,(1.4265)+(-0.0241)Asn+(-0.0877)Cit+(-0.2824)Met+(0.0274)Orn+(0.0350)Ile+(0.0639)Phe;0.758,0.806,0.767,0.764,0.732,0.841,0.798,0.784,(1.1279)+(0.0470)Ser+(-0.0064)Gly+(-0.0019)Ala+(-0.0372)Val+(-0.2699)M

et+(0.0709)Leu;0.758,0.800,0.789,0.818,0.778,0.857,0.683,0.784,(1.739
1)+(0.0338)Ser+(-0.1124)Asn+(0.0036)Gln+(0.0119)Thr+(-0.0071)Val+(-0.
1838)Met;0.758,0.799,0.781,0.811,0.773,0.770,0.728,0.771,(-0.8615)+(0
.0032)Gln+(0.0263)Thr+(-0.0031)Ala+(-0.0152)Val+(-0.3692)Met+(0.1246)
Phe;0.758,0.796,0.763,0.770,0.750,0.801,0.747,0.767,(0.2551)+(0.0521)
Ser+(-0.0890)Asn+(-0.0071)Gly+(0.0034)Gln+(0.0093)Pro+(-0.2376)Met;0.
758,0.801,0.750,0.750,0.715,0.849,0.754,0.767,(2.4493)+(0.0385)Ser+(-
0.2022)Asn+(0.0016)Gln+(-0.0509)Val+(0.0332)Orn+(0.0709)Leu;0.758,0.8
00,0.764,0.759,0.725,0.798,0.833,0.779,(1.7782)+(-0.1143)Asn+(-0.0057
)Pro+(0.0086)Orn+(0.1493)Ile+(-0.0934)Leu+(0.0560)Phe;0.758,0.796,0.7
76,0.798,0.761,0.769,0.752,0.770,(-0.4116)+(0.0034)Gln+(0.0099)Pro+(-
0.0186)Val+(-0.3415)Met+(0.0182)Orn+(0.1097)Phe;0.758,0.786,0.728,0.7
17,0.676,0.810,0.808,0.753,(2.5900)+(-0.0000)Gln+(-0.0035)Thr+(-0.066
1)Cit+(-0.0388)Val+(0.1814)Ile+(-0.0412)Leu;0.758,0.796,0.781,0.789,0
.772,0.818,0.749,0.782,(3.6788)+(-0.0840)Asn+(-0.0084)Ala+(-0.1081)Ci
t+(-0.0488)Tyr+(0.0546)Orn+(0.0736)Phe;0.758,0.787,0.745,0.730,0.722,
0.826,0.777,0.764,(3.0769)+(-0.0144)Ala+(-0.1200)Cit+(0.0089)Pro+(-0.
0440)Tyr+(0.0425)Orn+(0.0470)Ile;0.758,0.797,0.750,0.747,0.701,0.810,
0.816,0.769,(-0.3095)+(0.0498)Ser+(-0.1692)Asn+(-0.0047)Gly+(-0.0109)
Ala+(0.0098)Pro+(0.0602)Phe;0.758,0.794,0.744,0.746,0.752,0.778,0.698
,0.743,(0.1311)+(0.0484)Ser+(-0.1752)Asn+(-0.0021)Gly+(-0.0737)Cit+(-
0.0161)Leu+(0.0819)Phe;0.758,0.800,0.761,0.770,0.726,0.837,0.757,0.77
3,(1.4002)+(0.0462)Ser+(-0.0071)Gly+(-0.0061)Ala+(0.0175)Pro+(-0.0065
)Val+(-0.2433)Met;0.758,0.795,0.770,0.759,0.766,0.833,0.759,0.779,(6.
7973)+(0.0040)Gly+(-0.1157)His+(-0.0022)Ala+(0.0099)Tyr+(0.0048)Val+(
-0.0702)Met;0.758,0.801,0.740,0.736,0.709,0.847,0.736,0.757,(2.8557)+
(0.0386)Ser+(-0.1997)Asn+(0.0034)Thr+(-0.0516)Val+(0.0335)Orn+(0.0722
)Leu;0.758,0.798,0.772,0.800,0.770,0.843,0.650,0.766,(2.5280)+(0.0366

)Ser+(-0.0999)Asn+(0.0126)Thr+(-0.0068)Val+(-0.1831)Met+(0.0016)Lys;0
.758,0.794,0.793,0.790,0.793,0.833,0.772,0.797,(3.9838)+(-0.1130)Asn+
(-0.0069)Ala+(-0.1017)Cit+(-0.0166)Val+(0.0604)Orn+(0.0792)Phe;0.758,
0.806,0.706,0.683,0.719,0.761,0.698,0.715,(-0.7397)+(0.0474)Ser+(-0.1
813)Asn+(-0.0007)Gly+(-0.0821)Cit+(0.0241)Ile+(0.0477)Phe;0.758,0.795
,0.745,0.755,0.755,0.822,0.642,0.744,(1.0729)+(0.0372)Ser+(0.0022)Gln
+(-0.0726)Cit+(0.0132)Pro+(-0.0054)Val+(-0.2785)Met;0.758,0.794,0.731
,0.735,0.744,0.768,0.669,0.729,(-0.0707)+(0.0461)Ser+(-0.1793)Asn+(-0
.0772)Cit+(0.0042)Pro+(-0.0183)Leu+(0.0821)Phe;0.758,0.794,0.772,0.77
1,0.723,0.843,0.823,0.790,(3.2648)+(-0.0103)Ala+(-0.0269)Arg+(0.0191)
Orn+(-0.0031)Lys+(0.1731)Ile+(-0.0898)Leu;0.758,0.796,0.760,0.774,0.7
44,0.765,0.756,0.760,(-1.0140)+(0.0028)Gln+(0.0197)Thr+(-0.0086)Ala+(
0.0116)Pro+(-0.3761)Met+(0.0975)Phe;0.758,0.793,0.723,0.722,0.656,0.7
99,0.811,0.747,(3.5116)+(-0.0004)Gln+(-0.0011)Pro+(-0.0345)Tyr+(-0.04
96)Val+(-0.0102)Lys+(0.1590)Ile;0.758,0.789,0.748,0.741,0.753,0.806,0
.714,0.753,(7.0024)+(-0.0254)Asn+(0.0045)Gly+(-0.1058)His+(-0.0332)Ci
t+(0.0073)Pro+(-0.0102)Tyr;0.758,0.788,0.768,0.743,0.766,0.819,0.798,
0.782,(7.0196)+(-0.1176)His+(-0.0045)Ala+(-0.0352)Cit+(0.0045)Arg+(0.
0004)Lys+(0.0184)Leu;0.758,0.792,0.770,0.771,0.765,0.763,0.784,0.771,
(2.1046)+(-0.0415)Cit+(0.0100)Pro+(-0.0372)Val+(-0.3291)Met+(0.0487)L
eu+(0.1055)Phe;0.758,0.790,0.794,0.811,0.775,0.787,0.795,0.792,(-0.52
50)+(0.0050)Gln+(-0.0080)Ala+(-0.0139)Arg+(0.0120)Pro+(-0.3011)Met+(0
.0914)Phe;0.758,0.796,0.749,0.749,0.755,0.820,0.688,0.753,(1.8383)+(0
.0471)Ser+(-0.0058)Gly+(-0.0609)Cit+(0.0137)Pro+(-0.0058)Val+(-0.2675
)Met;0.758,0.800,0.767,0.783,0.729,0.819,0.769,0.775,(-0.3606)+(0.043
9)Ser+(-0.1678)Asn+(-0.0019)Thr+(-0.0068)Ala+(-0.0113)Leu+(0.0794)Phe
;0.758,0.792,0.763,0.779,0.778,0.843,0.631,0.758,(2.1860)+(0.0317)Ser
+(0.0132)Thr+(-0.0038)Ala+(-0.0732)Cit+(0.0007)Val+(-0.2362)Met;0.758

,0.791,0.766,0.753,0.780,0.835,0.719,0.772,(4.0147)+(0.0018)Gly+(-0.0855)Cit+(-0.0372)Val+(-0.2207)Met+(0.0539)Orn+(0.0575)Leu;0.758,0.788,0.760,0.748,0.761,0.826,0.742,0.769,(6.6809)+(0.0044)Gly+(-0.1171)His+(-0.0038)Ala+(-0.0381)Cit+(0.0054)Val+(0.0038)Lys;0.758,0.798,0.743,0.729,0.767,0.813,0.681,0.747,(1.7582)+(0.0444)Ser+(-0.1477)Asn+(-0.0026)Gly+(-0.0080)Thr+(-0.0986)Cit+(0.0437)Orn;0.758,0.794,0.776,0.785,0.781,0.820,0.712,0.775,(2.6865)+(0.0488)Ser+(-0.0767)Asn+(-0.0048)Gly+(-0.0573)Cit+(0.0009)Arg+(-0.1634)Met;0.758,0.801,0.802,0.821,0.809,0.789,0.750,0.792,(6.2958)+(-0.0005)Gly+(-0.0122)Arg+(-0.0035)Tyr+(-0.0012)Val+(0.0056)Lys+(-0.1426)Trp;0.758,0.789,0.777,0.791,0.754,0.776,0.789,0.777,(-0.8132)+(0.0019)Gly+(0.0034)Gln+(-0.0084)Ala+(0.0124)Pro+(-0.3188)Met+(0.0926)Phe;0.758,0.802,0.748,0.768,0.757,0.741,0.682,0.737,(0.2728)+(0.0275)Thr+(0.0102)Pro+(-0.0186)Val+(-0.3926)Met+(-0.0037)Lys+(0.1269)Phe;0.758,0.805,0.784,0.788,0.761,0.848,0.775,0.793,(2.6534)+(-0.0021)Gly+(0.0030)Gln+(0.0296)Thr+(-0.0467)Val+(-0.3501)Met+(0.0789)Leu;0.758,0.795,0.770,0.772,0.718,0.841,0.821,0.788,(3.0995)+(-0.0111)Ala+(-0.0285)Arg+(0.0030)Pro+(0.0165)Orn+(0.1708)Ile+(-0.0910)Leu;0.758,0.789,0.697,0.682,0.625,0.791,0.818,0.729,(-1.5307)+(0.0265)Ser+(-0.0165)Thr+(-0.0052)Pro+(-0.0538)Val+(0.1495)Ile+(0.0287)Phe;0.758,0.791,0.764,0.752,0.766,0.830,0.742,0.772,(6.8953)+(0.0046)Gly+(-0.1143)His+(-0.0036)Ala+(-0.0392)Cit+(0.0006)Tyr+(0.0062)Val;0.758,0.796,0.797,0.807,0.779,0.779,0.818,0.796,(2.9686)+(-0.0615)Asn+(-0.0083)Tyr+(-0.0412)Val+(-0.2437)Met+(0.0572)Leu+(0.1082)Phe;0.758,0.790,0.789,0.804,0.790,0.788,0.751,0.783,(2.4615)+(-0.0618)Asn+(-0.0102)Arg+(-0.0187)Val+(-0.2032)Met+(0.0348)Orn+(0.1054)Phe;0.758,0.800,0.775,0.809,0.787,0.769,0.662,0.757,(-0.8514)+(0.0048)Gln+(0.0333)Thr+(-0.0260)Arg+(-0.0171)Val+(-0.3873)Met+(0.1308)Phe;0.758,0.799,0.785,0.789,0.752,0.797,0.834,0.793,(-0.9308)+(0.0041)Gln+(-0.0077)Al

a+(-0.0176)Tyr+(-0.2957)Met+(0.0532)Ile+(0.0740)Phe;0.758,0.793,0.773,0.768,0.769,0.831,0.757,0.781,(7.0381)+(-0.0044)Asn+(0.0036)Gly+(-0.1095)His+(-0.0015)Ala+(0.0122)Tyr+(-0.0618)Met;0.758,0.787,0.725,0.714,0.675,0.809,0.798,0.749,(2.3982)+(0.0015)Gly+(-0.0044)Thr+(-0.0685)Cit+(-0.0381)Val+(0.1820)Ile+(-0.0422)Leu;0.758,0.798,0.756,0.762,0.776,0.812,0.662,0.753,(1.8331)+(0.0453)Ser+(-0.0755)Asn+(-0.0664)Cit+(0.0028)Tyr+(-0.1975)Met+(0.0107)Leu;0.758,0.801,0.745,0.750,0.691,0.817,0.795,0.763,(-0.7869)+(0.0467)Ser+(-0.1630)Asn+(-0.0072)Thr+(-0.0107)Ala+(0.0105)Pro+(0.0642)Phe;0.758,0.795,0.771,0.786,0.773,0.819,0.694,0.768,(2.1412)+(0.0485)Ser+(-0.0790)Asn+(-0.0070)Gly+(0.0150)Thr+(-0.0114)Arg+(-0.2156)Met;0.758,0.787,0.743,0.730,0.753,0.800,0.716,0.750,(6.5701)+(-0.0352)Asn+(0.0049)Gly+(-0.1135)His+(-0.0338)Cit+(0.0059)Pro+(0.0049)Lys;0.758,0.786,0.767,0.761,0.765,0.827,0.742,0.774,(7.1615)+(-0.0295)Asn+(0.0043)Gly+(-0.1074)His+(-0.0027)Ala+(-0.0334)Cit+(0.0074)Lys;0.758,0.783,0.717,0.710,0.651,0.792,0.823,0.744,(2.4057)+(-0.0014)Gly+(-0.0016)Gln+(-0.0052)Pro+(-0.0450)Val+(0.1866)Ile+(-0.0359)Leu;0.758,0.807,0.754,0.743,0.760,0.834,0.714,0.763,(1.1437)+(0.0411)Ser+(-0.0548)Cit+(0.0216)Tyr+(-0.0363)Val+(-0.3125)Met+(0.0696)Leu;0.758,0.792,0.793,0.796,0.784,0.783,0.811,0.794,(3.2547)+(-0.0562)Asn+(-0.0395)Cit+(-0.0383)Val+(-0.2420)Met+(0.0538)Leu+(0.1074)Phe;0.758,0.799,0.757,0.762,0.725,0.827,0.760,0.768,(0.4070)+(0.0465)Ser+(-0.0070)Gly+(0.0009)Gln+(-0.0068)Ala+(0.0158)Pro+(-0.2629)Met;0.758,0.784,0.704,0.690,0.644,0.789,0.804,0.732,(2.3081)+(-0.0029)Gln+(-0.0062)Pro+(-0.0468)Val+(0.0171)

Orn+(0.1858)Ile+(-0.0343)Leu;0.758,0.797,0.701,0.689,0.638,0.788,0.798,0.728,(-3.2383)+(0.0361)Ser+(-0.0301)Thr+(-0.0049)Pro+(0.1780)Ile+(-0.1063)Leu+(0.0509)Phe;0.758,0.787,0.755,0.723,0.788,0.815,0.731,0.764,(3.8535)+(-0.0169)Asn+(-0.0944)Cit+(-0.1935)Met+(0.0413)Orn+(-0.01

37)Lys+(0.0486)Ile;0.758,0.803,0.684,0.663,0.650,0.783,0.738,0.709,(-2.2328)+(0.0303)Ser+(-0.0030)Orn+(-0.0257)Lys+(0.1446)Ile+(-0.0833)Leu+(0.0488)Phe;0.757,0.795,0.747,0.752,0.736,0.791,0.721,0.750,(1.4302)+(0.0536)Ser+(-0.0765)Asn+(-0.0069)Gly+(0.0107)Pro+(-0.0141)Tyr+(-0.2070)Met;0.757,0.792,0.763,0.745,0.755,0.810,0.792,0.775,(6.9494)+(-0.1238)His+(-0.0034)Ala+(-0.0030)Arg+(-0.0096)Tyr+(0.0040)Lys+(0.0156)Leu;0.757,0.798,0.747,0.763,0.741,0.831,0.657,0.748,(2.2663)+(0.0405)Ser+(-0.1035)Asn+(0.0118)Pro+(-0.0129)Val+(-0.1826)Met+(0.0254)Orn;0.757,0.798,0.756,0.749,0.759,0.811,0.730,0.762,(6.6794)+(0.0040)Gly+(-0.1083)His+(-0.0024)Arg+(0.0087)Pro+(0.0026)Tyr+(-0.0957)Met;0.757,0.797,0.764,0.771,0.754,0.772,0.760,0.764,(0.8522)+(-0.0474)Asn+(0.0239)Thr+(-0.0086)Ala+(0.0112)Pro+(-0.3182)Met+(0.0958)Phe;0.757,0.796,0.771,0.772,0.699,0.837,0.871,0.795,(2.2966)+(0.0001)Gly+(-0.0090)Thr+(-0.0119)Ala+(0.0042)Pro+(0.1661)Ile+(-0.0858)Leu;0.757,0.794,0.763,0.736,0.775,0.800,0.781,0.773,(6.8668)+(-0.1103)His+(-0.0316)Cit+(0.0074)Arg+(0.0062)Pro+(-0.1156)Met+(0.0164)Leu;0.757,0.793,0.787,0.781,0.753,0.828,0.845,0.802,(1.4345)+(-0.0300)Asn+(0.0043)Gln+(-0.0096)Ala+(0.0083)Pro+(-0.2398)Met+(0.0562)Ile;0.757,0.796,0.773,0.771,0.704,0.844,0.868,0.797,(2.7740)+(-0.0055)Thr+(-0.0116)Ala+(0.0040)Pro+(-0.0071)Lys+(0.1632)Ile+(-0.0809)Leu;0.757,0.801,0.732,0.729,0.773,0.817,0.592,0.728,(0.8602)+(0.0348)Ser+(0.0067)Thr+(-0.0985)Cit+(-0.2917)Met+(0.0351)Orn+(0.0071)Leu;0.757,0.793,0.765,0.759,0.761,0.822,0.751,0.773,(6.5437)+(0.0037)Gly+(-0.1189)His+(-0.0019)Ala+(0.0037)Val+(-0.0861)Met+(0.0092)Lys;0.757,0.789,0.748,0.742,0.748,0.799,0.725,0.754,(6.8953)+(-0.0200)Asn+(0.0035)Gly+(-0.1120)His+(-0.0044)Arg+(0.0072)Pro+(-0.0112)Tyr;0.757,0.794,0.773,0.781,0.779,0.840,0.690,0.773,(2.3247)+(0.0387)Ser+(-0.0054)Gly+(0.0138)Thr+(-0.0033)Ala+(-0.0658)Cit+(-0.2414)Met;0.757,0.796,0.764,0.766,0.762,0.811,0.729,0.767,(0.9689)+(0.

0524)Ser+(-0.0860)Asn+(-0.0067)Gly+(-0.2082)Met+(0.0202)Orn+(0.0036)Leu;0.757,0.791,0.714,0.698,0.666,0.796,0.795,0.739,(0.6377)+(0.0015)Gly+(-0.0789)Cit+(-0.0388)Val+(0.1837)Ile+(-0.0508)Leu+(0.0445)Phe;0.757,0.799,0.761,0.795,0.758,0.748,0.690,0.748,(0.4071)+(0.0305)Thr+(-0.0026)Ala+(-0.0282)Tyr+(-0.0148)Val+(-0.3279)Met+(0.1347)Phe;0.757,0.796,0.733,0.710,0.690,0.830,0.811,0.760,(-1.7727)+(0.0359)Ser+(-0.0139)Thr+(-0.0148)Ala+(-0.0978)Cit+(0.0613)Ile+(0.0313)Phe;0.757,0.794,0.774,0.765,0.737,0.827,0.833,0.791,(4.5475)+(-0.0550)Asn+(-0.0123)Ala+(-0.0800)Cit+(0.0097)Pro+(-0.0324)Tyr+(0.0549)Ile;0.757,0.793,0.762,0.754,0.774,0.822,0.715,0.766,(7.0017)+(0.0003)Asn+(0.0049)Gly+(-0.1106)His+(-0.0347)Cit+(0.0054)Val+(-0.0662)Met;0.757,0.790,0.771,0.762,0.759,0.826,0.781,0.782,(7.4117)+(-0.0994)His+(-0.0055)Ala+(-0.0336)Cit+(0.0015)Arg+(0.0114)Pro+(-0.0087)Tyr;0.757,0.789,0.767,0.745,0.764,0.818,0.794,0.780,(7.1229)+(-0.1161)His+(-0.0042)Ala+(-0.0352)Cit+(0.0053)Arg+(-0.0064)Tyr+(0.0191)Leu;0.757,0.798,0.785,0.799,0.777,0.843,0.726,0.786,(2.8863)+(0.0459)Ser+(-0.0953)Asn+(-0.0072)Gly+(0.0144)Thr+(-0.0066)Val+(-0.1866)Met;0.757,0.797,0.769,0.785,0.759,0.841,0.695,0.770,(1.5707)+(0.0403)Ser+(-0.0898)Asn+(-0.0034)Ala+(-0.1512)Met+(0.0249)Orn+(-0.0032)Lys;0.757,0.796,0.731,0.706,0.693,0.835,0.798,0.758,(-0.6181)+(0.0350)Ser+(-0.0004)Gln+(-0.0119)Thr+(-0.0140)Ala+(-0.0939)Cit+(0.0681)Ile;0.757,0.791,0.715,0.699,0.659,0.802,0.815,0.744,(2.3411)+(-0.0022)Thr+(-0.0456)Val+(0.0183)Orn+(-0.0152)Lys+(0.1726)Ile+(-0.0254)Leu;0.757,0.788,0.747,0.736,0.756,0.805,0.716,0.753,(6.8171)+(-0.0282)Asn+(0.0048)Gly+(-0.1093)His+(-0.0344)Cit+(0.0003)Arg+(0.0064)Pro;0.757,0.788,0.737,0.719,0.747,0.796,0.724,0.747,(6.3703)+(0.0044)Gly+(-0.1252)His+(-0.0337)Cit+(-0.0113)Tyr+(0.0011)Lys+(0.0165)Leu;0.757,0.798,0.742,0.743,0.780,0.829,0.598,0.738,(1.4174)+(0.0348)Ser+(-0.0956)Cit+(-0.0058)Arg+(-0.0050)Tyr+(-0.2358)Met+(0.0425)Orn;0

.757,0.792,0.784,0.770,0.773,0.857,0.787,0.797,(5.9963)+(-0.1105)Asn+(-0.0062)Ala+(-0.0953)Cit+(-0.0370)Val+(0.0659)Orn+(0.0529)Leu;0.757,0.791,0.772,0.796,0.765,0.757,0.736,0.763,(1.7586)+(-0.0597)Asn+(0.0038)Gly+(0.0110)Pro+(-0.0181)Val+(-0.2606)Met+(0.1160)Phe;0.757,0.803,0.777,0.782,0.759,0.847,0.752,0.785,(2.4552)+(0.0026)Gln+(0.0284)Thr+(0.0040)Tyr+(-0.0472)Val+(-0.3555)Met+(0.0799)Leu;0.757,0.801,0.768,0.750,0.790,0.783,0.759,0.770,(-1.3248)+(0.0060)Gln+(-0.0947)Cit+(-0.3592)Met+(0.0166)Orn+(0.0414)Ile+(0.0732)Phe;0.757,0.798,0.736,0.715,0.700,0.840,0.793,0.762,(-0.6296)+(0.0350)Ser+(-0.0105)Thr+(-0.0138)Ala+(-0.0898)Cit+(-0.0064)Arg+(0.0675)Ile;0.757,0.797,0.763,0.774,0.753,0.835,0.703,0.767,(0.9808)+(0.0421)Ser+(-0.0891)Asn+(-0.0039)Ala+(-0.1785)Met+(0.0204)Orn+(0.0072)Leu;0.757,0.798,0.755,0.753,0.735,0.817,0.755,0.765,(3.3293)+(0.0016)Gly+(-0.0189)Arg+(-0.2173)Met+(0.0169)Orn+(0.1700)Ile+(-0.0856)Leu;0.757,0.796,0.798,0.796,0.765,0.842,0.844,0.812,(1.4408)+(0.0052)Gln+(-0.0075)Ala+(-0.0080)Arg+(-0.2274)Met+(-0.0097)Lys+(0.0697)Ile;0.757,0.795,0.732,0.733,0.718,0.843,0.681,0.744,(1.8461)+(0.0229)Ser+(-0.0126)Ala+(-0.1209)Cit+(0.0132)Pro+(-0.0433)Tyr+(0.0478)Orn;0.757,0.789,0.737,0.723,0.739,0.792,0.733,0.747,(6.3443)+(0.0035)Gly+(-0.1307)His+(-0.0061)Arg+(-0.0130)Tyr+(0.0038)Lys+(0.0142)Leu;0.757,0.790,0.733,0.749,0.700,0.787,0.718,0.739,(3.4707)+(-0.0305)Arg+(-0.0024)Pro+(-0.0497)Tyr+(0.0246)Orn+(0.1684)Ile+(-0.0932)Leu;0.757,0.803,0.757,0.760,0.737,0.822,0.740,0.765,(3.3841)+(0.0181)Thr+(-0.0231)Arg+(-0.2689)Met+(0.0025)Lys+(0.1705)Ile+(-0.0835)Leu;0.757,0.801,0.755,0.759,0.726,0.827,0.757,0.767,(0.8988)+(0.0476)Ser+(-0.0068)Gly+(-0.0067)Ala+(0.0160)Pro+(-0.2446)Met+(-0.0033)Lys;0.757,0.798,0.750,0.755,0.766,0.825,0.647,0.748,(1.4011)+(0.0345)Ser+(0.0144)Thr+(-0.0051)Ala+(-0.0789)Cit+(-0.2728)Met+(0.0173)Leu;0.757,0.793,0.739,0.724,0.756,0.754,0.733,0.742,(0.3996)+(-0.0191)Asn+(0.0263)Th

r+(-0.3723)Met+(-0.0166)Lys+(0.0478)Ile+(0.0819)Phe;0.757,0.792,0.772,0.791,0.780,0.847,0.650,0.767,(1.5700)+(0.0291)Ser+(0.0024)Gln+(0.0121)Thr+(-0.0037)Ala+(-0.0761)Cit+(-0.2428)Met;0.757,0.800,0.773,0.778,0.798,0.797,0.689,0.765,(1.6820)+(0.0345)Thr+(-0.0061)Ala+(-0.0827)Cit+(-0.3142)Met+(-0.0102)Lys+(0.1120)Phe;0.757,0.797,0.769,0.794,0.770,0.764,0.704,0.758,(0.1197)+(0.0010)Gly+(0.0278)Thr+(-0.0032)Ala+(-0.0152)Val+(-0.3535)Met+(0.1264)Phe;0.757,0.795,0.774,0.755,0.770,0.817,0.799,0.785,(6.9449)+(-0.1195)His+(-0.0027)Ala+(0.0000)Arg+(-0.0903)Met+(0.0065)Lys+(0.0180)Leu;0.757,0.792,0.731,0.710,0.699,0.835,0.778,0.756,(-1.5082)+(0.0315)Ser+(-0.0153)Ala+(-0.0940)Cit+(-0.0133)Arg+(0.0581)Ile+(0.0316)Phe;0.757,0.799,0.768,0.775,0.770,0.817,0.713,0.769,(1.4821)+(0.0517)Ser+(-0.0801)Asn+(-0.0068)Gly+(-0.0110)Arg+(-0.1882)Met+(0.0240)Orn;0.757,0.798,0.739,0.706,0.781,0.815,0.684,0.746,(3.3538)+(0.0233)Thr+(-0.1009)Cit+(-0.2801)Met+(0.0308)Orn+(-0.0166)Lys+(0.0567)Ile;0.757,0.796,0.793,0.773,0.771,0.849,0.854,0.812,(3.4140)+(-0.0524)Asn+(-0.0118)Ala+(-0.0848)Cit+(-0.0144)Lys+(0.0587)Ile+(0.0460)Phe;0.757,0.793,0.717,0.700,0.663,0.792,0.820,0.744,(1.1243)+(0.0012)Gly+(-0.0046)Thr+(-0.0678)Cit+(-0.0533)Val+(0.1475)Ile+(0.0304)Phe;0.757,0.802,0.777,0.777,0.754,0.851,0.771,0.788,(3.6990)+(-0.0009)Gly+(0.0315)Thr+(-0.0032)Ala+(-0.0457)Val+(-0.3173)Met+(0.0814)Leu;0.757,0.797,0.770,0.773,0.723,0.799,0.838,0.783,(0.7793)+(-0.1391)Asn+(0.0038)Gln+(0.0014)Orn+(0.1400)Ile+(-0.0910)Leu+(0.0529)Phe;0.757,0.794,0.764,0.779,0.782,0.848,0.626,0.759,(2.4788)+(0.0315)Ser+(0.0143)Thr+(-0.0035)Ala+(-0.0723)Cit+(-0.2238)Met+(-0.0035)Lys;0.757,0.795,0.773,0.765,0.747,0.835,0.806,0.788,(1.4905)+(0.0036)Gln+(0.0184)Thr+(-0.0078)Ala+(-0.2794)Met+(-0.0138)Lys+(0.0723)Ile;0.757,0.801,0.727,0.727,0.739,0.767,0.671,0.726,(-0.3424)+(0.0477)Ser+(-0.1695)Asn+(-0.0026)Thr+(-0.0742)Cit+(-0.0077)Arg+(0.0660)Phe;0.757,0.796,0.769,0.782,0

.784,0.825,0.665,0.764,(2.5011)+(0.0427)Ser+(-0.0802)Asn+(-0.0649)Cit+(0.0021)Arg+(0.0049)Tyr+(-0.1695)Met;0.757,0.792,0.769,0.774,0.771,0.783,0.740,0.767,(1.2458)+(0.0054)Gly+(-0.0541)Cit+(-0.0361)Val+(-0.3176)Met+(0.0521)Leu+(0.1154)Phe;0.757,0.790,0.765,0.756,0.751,0.820,0.777,0.776,(7.1200)+(-0.1050)His+(-0.0057)Ala+(-0.0321)Cit+(0.0114)Pro+(-0.0135)Tyr+(0.0062)Lys;0.757,0.787,0.747,0.772,0.703,0.798,0.737,0.752,(2.3484)+(0.0038)Gln+(-0.0319)Arg+(-0.0018)Pro+(-0.0475)Tyr+(0.1713)Ile+(-0.0928)Leu;0.757,0.794,0.751,0.761,0.742,0.763,0.732,0.750,(-0.2611)+(0.0017)Gly+(0.0205)Thr+(-0.0088)Ala+(0.0121)Pro+(-0.3663)Met+(0.0998)Phe;0.757,0.786,0.729,0.704,0.744,0.796,0.717,0.740,(5.9749)+(0.0048)Gly+(-0.1276)His+(-0.0347)Cit+(-0.0013)Arg+(0.0038)Pro+(0.0133)Leu;0.757,0.785,0.717,0.705,0.668,0.805,0.788,0.742,(2.5144)+(0.0012)Gly+(-0.0008)Gln+(-0.0688)Cit+(-0.0397)Val+(0.1809)Ile+(-0.0396)Leu;0.757,0.800,0.738,0.733,0.779,0.824,0.602,0.735,(0.9462)+(0.0368)Ser+(-0.0954)Cit+(-0.0050)Arg+(-0.2604)Met+(0.0388)Orn+(0.0058)Leu;0.757,0.794,0.733,0.721,0.758,0.752,0.703,0.733,(0.3965)+(0.0301)Thr+(-0.0152)Arg+(-0.3881)Met+(-0.0149)Lys+(0.0487)Ile+(0.0835)Phe;0.757,0.791,0.769,0.742,0.774,0.814,0.798,0.782,(7.2410)+(-0.1035)His+(-0.0181)Cit+(0.0138)Tyr+(-0.0233)Val+(-0.1204)Met+(0.0542)Leu;0.757,0.791,0.769,0.768,0.763,0.821,0.750,0.775,(6.7815)+(-0.0127)Asn+(0.0036)Gly+(-0.1132)His+(-0.0014)Ala+(-0.0751)Met+(0.0105)Lys;0.757,0.798,0.781,0.789,0.771,0.823,0.750,0.783,(0.4954)+(0.0498)Ser+(-0.0990)Asn+(-0.0072)Gly+(0.0031)Gln+(-0.2033)Met+(0.0188)Orn;0.757,0.794,0.792,0.816,0.769,0.852,0.732,0.792,(2.3103)+(0.0338)Ser+(-0.1352)Asn+(0.0051)Gln+(-0.0048)Ala+(-0.0760)Cit+(-0.0163)Tyr;0.757,0.789,0.760,0.750,0.730,0.815,0.811,0.776,(2.0438)+(0.0022)Gly+(-0.0101)Ala+(0.0091)Pro+(-0.2511)Met+(0.0049)Orn+(0.0592)Ile;0.757,0.787,0.731,0.708,0.740,0.793,0.728,0.742,(5.9244)+(0.0040)Gly+(-0.1330)His+(-0.0079)Arg+(0.0039)P

ro+(0.0023)Lys+(0.0107)Leu;0.757,0.790,0.788,0.817,0.777,0.766,0.753,0.778,(-0.3838)+(0.0056)Gln+(-0.0140)Arg+(0.0104)Pro+(-0.0164)Val+(-0.3320)Met+(0.1134)Phe;0.757,0.789,0.760,0.755,0.744,0.810,0.774,0.771,(7.0004)+(-0.1125)His+(-0.0050)Ala+(-0.0086)Arg+(0.0107)Pro+(-0.0156)Tyr+(0.0086)Lys;0.757,0.794,
0.756,0.733,0.761,0.797,0.774,0.766,(6.6425)+(0.0157)Asn+(-0.1169)His+(0.0067)Pro+(-0.0034)Tyr+(-0.1196)Met+(0.0162)Leu;0.757,0.788,0.739,0.728,0.748,0.800,0.709,0.746,(6.5671)+(0.0040)Gly+(-0.1150)His+(-0.0336)Cit+(0.0066)Pro+(-0.0139)Tyr+(0.0023)Val;0.757,0.804,0.761,0.799,0.757,0.740,0.684,0.745,(-0.8633)+(0.0032)Gln+(0.0284)Thr+(-0.0303)Tyr+(-0.0160)Val+(-0.3611)Met+(0.1356)Phe;0.757,0.796,0.741,0.727,0.769,0.813,0.666,0.744,(1.9790)+(0.0424)Ser+(-0.1526)Asn+(-0.0028)Gly+(-0.0942)Cit+(-0.0073)Arg+(0.0407)Orn;0.757,0.782,0.698,0.683,0.634,0.771,0.821,0.727,(1.5215)+(-0.0010)Gly+(-0.0030)Gln+(-0.0465)Val+(0.1791)Ile+(-0.0386)Leu+(0.0338)Phe;0.757,0.799,0.804,0.818,0.778,0.845,0.789,0.808,(0.9607)+(0.0479)Ser+(-0.0968)Asn+(-0.0070)Gly+(0.0041)Gln+(-0.0023)Ala+(-0.1686)Met;0.757,0.795,0.789,0.799,0.773,0.772,0.808,0.788,(1.6191)+(-0.0057)Tyr+(-0.0394)Val+(-0.3142)Met+(0.0005)Lys+(0.0552)Leu+(0.1080)Phe;0.757,0.795,0.729,0.713,0.746,0.752,0.715,0.732,(-0.2396)+(0.0020)Gly+(0.0245)Thr+(-0.3947)Met+(-0.0176)Lys+(0.0512)Ile+(0.0841)Phe;0.757,0.791,0.770,0.754,0.808,0.794,0.714,0.767,(2.4958)+(-0.0351)Asn+(-0.0927)Cit+(-0.2069)Met+(0.0462)Orn+(-0.0115)Lys+(0.0801)Phe;0.757,0.796,0.755,0.771,0.778,0.781,0.644,0.744,(0.3427)+(0.0049)Gly+(0.0296)Thr+(-0.0064)Ala+(-0.0911)Cit+(-0.3498)Met+(0.1154)Phe;0.757,0.790,0.782,0.808,0.767,0.773,0.751,0.774,(2.5667)+(-0.0744)Asn+(-0.0319)Tyr+(-0.0183)Val+(-0.1614)Met+(0.0348)Orn+(0.1129)Phe;0.757,0.788,0.782,0.776,0.799,0.857,0.711,0.786,(5.1936)+(-0.0736)Asn+(0.0038)Gly+(-0.0082)Ala+(-0.1216)Cit+(0.0649)Orn+(-0.0094)Lys;0.757,0.

798,0.731,0.718,0.760,0.809,0.650,0.735,(1.5565)+(0.0417)Ser+(-0.1505)Asn+(-0.0088)Thr+(-0.1017)Cit+(0.0022)Pro+(0.0433)Orn;0.757,0.788,0.738,0.719,0.748,0.798,0.726,0.748,(6.3676)+(0.0044)Gly+(-0.1248)His+(-0.0350)Cit+(0.0014)Arg+(-0.0109)Tyr+(0.0171)Leu;0.757,0.788,0.766,0.753,0.756,0.823,0.781,0.778,(7.0541)+(-0.1076)His+(-0.0061)Ala+(-0.0312)Cit+(-0.0027)Arg+(0.0106)Pro+(0.0055)Lys;0.757,0.802,0.745,0.759,0.730,0.835,0.679,0.751,(0.7309)+(0.0381)Ser+(-0.0073)Ala+(-0.0170)Arg+(0.0152)Pro+(-0.2436)Met+(0.0174)Orn;0.757,0.794,0.793,0.775,0.783,0.843,0.828,0.807,(4.2326)+(-0.0091)Ala+(-0.0734)Cit+(0.0006)Tyr+(-0.1643)Met+(-0.0075)Lys+(0.0750)Ile;0.757,0.790,0.736,0.750,0.703,0.788,0.728,0.742,(3.7563)+(-0.0017)Gly+(-0.0295)Arg+(-0.0528)Tyr+(0.0250)Orn+(0.1636)Ile+(-0.0922)Leu;0.757,0.801,0.768,0.766,0.755,0.838,0.747,0.777,(3.5413)+(-0.0011)Gly+(0.0313)Thr+(0.0024)Tyr+(-0.0474)Val+(-0.3409)Met+(0.0810)Leu;0.757,0.794,0.777,0.785,0.782,0.820,0.711,0.775,(2.6776)+(0.0489)Ser+(-0.0760)Asn+(-0.0048)Gly+(-0.0568)Cit+(0.0009)Tyr+(-0.1644)Met;0.757,0.788,0.753,0.747,0.745,0.790,0.760,0.761,(7.0429)+(-0.0278)Asn+(-0.1122)His+(0.0074)Pro+(-0.0196)Tyr+(-0.0021)Val+(0.0078)Lys;0.757,0.786,0.736,0.711,0.749,0.801,0.724,0.746,(6.1571)+(0.0047)Gly+(-0.1277)His+(-0.0354)Cit+(0.0006)Arg+(-0.0006)Lys+(0.0160)Leu;0.757,0.793,0.762,0.779,0.781,0.844,0.619,0.756,(2.3763)+(0.0317)Ser+(0.0147)Thr+(-0.0036)Ala+(-0.0685)Cit+(-0.0059)Arg+(-0.2328)Met;0.757,0.796,0.769,0.782,0.784,0.826,0.659,0.763,(2.5183)+(0.0429)Ser+(-0.0791)Asn+(-0.0635)Cit+(0.0049)Tyr+(-0.1681)Met+(0.0001)Lys;0.757,0.796,0.773,0.784,0.769,0.824,0.717,0.774,(1.9672)+(0.0486)Ser+(-0.0848)Asn+(-0.0071)Gly+(0.0131)Thr+(-0.2114)Met+(-0.0025)Lys;0.757,0.785,0.706,0.694,0.640,0.773,0.825,0.733,(1.4463)+(-0.0025)Gln+(-0.0060)Thr+(-0.0444)Val+(0.1803)Ile+(-0.0419)Leu+(0.0357)Phe;0.757,0.798,0.776,0.766,0.788,0.778,0.775,0.777,(-1.5054)+(0.0070)Gln+(-0.0822)Cit+(

-0.0035)Arg+(-0.3633)Met+(0.0457)Ile+(0.0779)Phe;0.756,0.805,0.756,0.758,0.738,0.824,0.741,0.765,(3.4835)+(0.0186)Thr+(-0.0219)Arg+(0.0004)Pro+(-0.2662)Met+(0.1688)Ile+(-0.0818)Leu;0.756,0.793,0.769,0.763,0.763,0.828,0.752,0.777,(6.9704)+(0.0037)Gly+(-0.1145)His+(-0.0019)Ala+(-0.0012)Arg+(0.0051)Val+(-0.0538)Met;0.756,0.792,0.733,0.716,0.750,0.746,0.730,0.736,(0.0497)+(0.0253)Thr+(0.0015)Pro+(-0.3937)Met+(-0.0175)Lys+(0.0484)Ile+(0.0830)Phe;0.756,0.787,0.775,0.764,0.768,0.821,0.786,0.785,(7.4386)+(-0.0064)Asn+(-0.1133)His+(-0.0025)Ala+(-0.0016)Arg+(-0.0034)Tyr+(0.0033)Val;0.756,0.794,0.751,0.742,0.775,0.823,0.673,0.753,(2.5288)+(0.0409)Ser+(-0.1537)Asn+(-0.0032)Gly+(-0.0983)Cit+(0.0452)Orn+(-0.0091)Leu;0.756,0.795,0.768,0.798,0.775,0.838,0.622,0.758,(2.8704)+(0.0366)Ser+(-0.0904)Asn+(0.0156)Thr+(-0.0119)Arg+(-0.0065)Val+(-0.1753)Met;0.756,0.792,0.784,0.771,0.803,0.828,0.745,0.787,(2.4613)+(-0.0074)Ala+(-0.1035)Cit+(-0.1812)Met+(0.0522)Orn+(-0.0110)Lys+(0.0837)Phe;0.756,0.791,0.767,0.759,0.740,0.816,0.810,0.781,(2.3963)+(0.0028)Gly+(-0.0100)Ala+(-0.0081)Arg+(0.0094)Pro+(-0.2376)Met+(0.0609)Ile;0.756,0.794,0.758,0.737,0.765,0.794,0.775,0.768,(6.5985)+(-0.1179)His+(-0.0019)Arg+(0.0067)Pro+(-0.1273)Met+(0.0073)Lys+(0.0123)Leu;0.756,0.794,0.729,0.747,0.732,0.794,0.630,0.726,(1.2266)+(0.0418)Ser+(-0.0870)Asn+(0.0087)Thr+(0.0098)Pro+(-0.0105)Tyr+(-0.2309)Met;0.756,0.795,0.762,0.749,0.776,0.768,0.764,0.764,(1.9533)+(-0.0651)Cit+(-0.0231)Tyr+(-0.2510)Met+(-0.0112)Lys+(0.0507)Ile+(0.0821)Phe;0.756,0.794,0.774,0.776,0.698,0.840,0.875,0.798,(1.7913)+(0.0014)Gln+(-0.0107)Thr+(-0.0119)Ala+(0.0040)Pro+(0.1674)Ile+(-0.0868)Leu;0.756,0.794,0.759,0.738,0.764,0.796,0.777,0.769,(6.8073)+(-0.1146)His+(0.0019)Arg+(0.0065)Pro+(-0.0046)Tyr+(-0.1059)Met+(0.0155)Leu;0.756,0.806,0.761,0.761,0.760,0.835,0.714,0.767,(1.0212)+(0.0371)Ser+(0.0021)Gln+(-0.0581)Cit+(-0.0332)Val+(-0.2832)Met+(0.0648)Leu;0.756,0.799,0.770,0.794,0.788

,0.760,0.675,0.754,(-0.8571)+(0.0049)Gln+(0.0289)Thr+(-0.0751)Cit+(-0.0133)Val+(-0.3916)Met+(0.1277)Phe;0.756,0.798,0.750,0.764,0.704,0.810,0.766,0.761,(-0.2863)+(0.0438)Ser+(-0.1739)Asn+(-0.0098)Ala+(0.0114)Pro+(-0.0156)Leu+(0.0785)Phe;0.756,0.796,0.778,0.783,0.722,0.848,0.831,0.796,(3.3375)+(0.0018)Thr+(-0.0103)Ala+(-0.0244)Arg+(-0.0017)Lys+(0.1760)Ile+(-0.0889)Leu;0.756,0.794,0.732,0.746,0.709,0.773,0.715,0.736,(0.0996)+(0.0466)Ser+(-0.2078)Asn+(0.0009)Thr+(0.0078)Pro+(-0.0232)Val+(0.0954)Phe;0.756,0.792,0.773,0.774,0.765,0.834,0.744,0.779,(6.2460)+(-0.1167)Asn+(-0.0879)Cit+(-0.0272)Tyr+(-0.0378)Val+(0.0661)Orn+(0.0496)Leu;0.756,0.792,0.772,0.766,0.736,0.821,0.827,0.788,(1.0775)+(0.0013)Gly+(0.0031)Gln+(-0.0100)Ala+(0.0087)Pro+(-0.2682)Met+(0.0598)Ile;0.756,0.798,0.771,0.759,0.785,0.772,0.775,0.773,(-1.5161)+(0.0067)Gln+(-0.0845)Cit+(0.0018)Pro+(-0.3708)Met+(0.0438)Ile+(0.0780)Phe;0.756,0.795,0.750,0.752,0.744,0.793,0.725,0.753,(1.1789)+(0.0541)Ser+(-0.0739)Asn+(-0.0066)Gly+(0.0100)Pro+(-0.2252)Met+(-0.0018)Lys;0.756,0.792,0.719,0.693,0.685,0.816,0.790,0.746,(1.8253)+(-0.0004)Gly+(-0.0919)Cit+(-0.0061)Pro+(-0.0527)Val+(0.0396)Orn+(0.1494)Ile;0.756,0.797,0.738,0.727,0.683,0.840,0.804,0.764,(-0.1696)+(0.0410)Ser+(-0.1511)Asn+(0.0006)Gln+(-0.0102)Ala+(0.0052)Orn+(0.0509)Ile;0.756,0.793,0.760,0.800,0.741,0.747,0.706,0.748,(3.3580)+(-0.1570)Asn+(0.0198)Thr+(-0.0658)Tyr+(-0.0225)Val+(0.0314)Orn+(0.1097)Phe;0.756,0.792,0.772,0.759,0.748,0.828,0.817,0.788,(2.6016)+(0.0020)Gly+(-0.0078)Ala+(-0.2107)Met+(0.0139)Orn+(-0.0110)Lys+(0.0684)Ile;0.756,0.788,0.742,0.735,0.743,0.797,0.720,0.749,(6.6395)+(0.0031)Gly+(-0.1177)His+(-0.0061)Arg+(0.0068)Pro+(-0.0132)Tyr+(0.0010)Val;0.756,0.798,0.772,0.795,0.774,0.769,0.711,0.762,(0.5044)+(0.0296)Thr+(-0.0031)Ala+(-0.0142)Val+(-0.3425)Met+(-0.0044)Lys+(0.1259)Phe;0.756,0.791,0.765,0.756,0.735,0.817,0.816,0.781,(2.3838)+(-0.0165)Asn+(0.0027)Gly+(-0.0100)Ala+(0.0092)Pro+(

-0.2330)Met+(0.0597)Ile;0.756,0.803,0.760,0.764,0.728,0.853,0.754,0.775,(0.7260)+(0.0373)Ser+(0.0006)Gln+(-0.0025)Ala+(-0.0373)Val+(-0.2751)Met+(0.0721)Leu;0.756,0.796,0.773,0.781,0.736,0.816,0.800,0.783,(0.0263)+(0.0496)Ser+(-0.1674)Asn+(-0.0050)Gly+(-0.0068)Ala+(-0.0120)Leu+(0.0766)Phe;0.756,0.795,0.747,0.747,0.742,0.790,0.729,0.752,(0.8554)+(0.0546)Ser+(-0.0747)Asn+(-0.0065)Gly+(0.0095)Pro+(-0.2401)Met+(0.0031)Leu;0.756,0.794,0.763,0.752,0.764,0.799,0.768,0.771,(6.6960)+(-0.0021)Asn+(-0.1105)His+(0.0087)Pro+(-0.0017)Val+(-0.1180)Met+(0.0102)Lys;0.756,0.794,0.748,0.748,0.728,0.830,0.733,0.760,(3.6770)+(-0.0829)Asn+(0.0055)Gly+(-0.0752)Cit+(-0.0074)Arg+(0.1559)Ile+(-0.0827)Leu;0.756,0.793,0.760,0.780,0.752,0.761,0.723,0.754,(0.5308)+(0.0018)Gly+(0.0102)Pro+(-0.0188)Val+(-0.3240)Met+(0.0214)Orn+(0.1105)Phe;0.756,0.792,0.766,0.781,0.759,0.765,0.742,0.762,(0.9116)+(0.0100)Pro+(-0.0185)Val+(-0.3126)Met+(0.0238)Orn+(-0.0016)Lys+(0.1077)Phe;0.756,0.791,0.795,0.818,0.791,0.792,0.744,0.786,(-0.2746)+(0.0048)Gln+(-0.0184)Arg+(-0.0166)Val+(-0.2934)Met+(0.0266)Orn+(0.1089)Phe;0.756,0.787,0.766,0.746,0.764,0.814,0.787,0.778,(7.1862)+(-0.1166)His+(-0.0040)Ala+(-0.0305)Cit+(-0.0073)Tyr+(0.0026)Lys+(0.0174)Leu;0.756,0.787,0.771,0.762,0.762,0.812,0.788,0.781,(7.2446)+(-0.0179)Asn+(-0.1155)His+(-0.0025)Ala+(-0.0078)Tyr+(0.0017)Val+(0.0071)Lys;0.756,0.796,0.793,0.822,0.776,0.849,0.711,0.789,(0.9866)+(0.0387)Ser+(-0.0926)Asn+(0.0040)Gln+(-0.0024)Ala+(-0.0098)Arg+(-0.1538)Met;0.756,0.794,0.765,0.777,0.782,0.844,0.641,0.761,(2.0382)+(0.0325)Ser+(0.0126)Thr+(-0.0039)Ala+(-0.0734)Cit+(0.0098)Tyr+(-0.2492)Met;0.756,0.797,0.759,0.761,0.734,0.821,0.763,0.770,(3.4833)+(-0.0064)Asn+(0.0024)Gly+(-0.0147)Arg+(-0.2103)Met+(0.1709)Ile+(-0.0831)Leu;0.756,0.793,0.754,0.743,0.767,0.769,0.749,0.757,(0.3660)+(0.0038)Gly+(-0.0054)Arg+(-0.3212)Met+(-0.0119)Lys+(0.0504)Ile+(0.0761)Phe;0.756,0.791,0.771,0.760,0.748,0.818,0.817,0.786,(2.68

89)+(-0.0099)Ala+(-0.0088)Arg+(0.0090)Pro+(-0.2311)Met+(0.0102)Orn+(0.0554)Ile;0.756,0.794,0.743,0.740,0.755,0.808,0.679,0.745,(1.4404)+(0.0485)Ser+(-0.0054)Gly+(-0.0658)Cit+(0.0119)Pro+(-0.2680)Met+(-0.0034)Lys;0.756,0.793,0.734,0.717,0.752,0.751,0.730,0.737,(0.0752)+(0.0269)Thr+(-0.3944)Met+(-0.0054)Orn+(-0.0171)Lys+(0.0517)Ile+(0.0839)Phe;0.756,0.797,0.772,0.798,0.771,0.844,0.650,0.766,(2.5079)+(0.0368)Ser+(-0.0979)Asn+(0.0128)Thr+(0.0024)Tyr+(-0.0065)Val+(-0.1841)Met;0.756,0.799,0.773,0.800,0.787,0.773,0.674,0.759,(0.9022)+(0.0349)Thr+(-0.0030)Ala+(-0.0208)Arg+(-0.0156)Val+(-0.3429)Met+(0.1298)Phe;0.756,0.795,0.775,0.779,0.717,0.844,0.835,0.794,(3.2521)+(0.0005)Thr+(-0.0112)Ala+(-0.0251)Arg+(0.0041)Pro+(0.1717)Ile+(-0.0889)Leu;0.756,0.805,0.767,0.764,0.734,0.833,0.794,0.781,(0.7005)+(0.0466)Ser+(-0.0070)Gly+(0.0013)Gln+(-0.0381)Val+(-0.2899)Met+(0.0701)Leu;0.756,0.794,0.776,0.780,0.718,0.844,0.836,0.795,(3.33

81)+(-0.0111)Ala+(-0.0239)Arg+(0.0041)Pro+(-0.0013)Lys+(0.1709)Ile+(-0.0878)Leu;0.756,0.791,0.775,0.769,0.740,0.821,0.835,0.791,(1.1629)+(0.0034)Gln+(-0.0100)Ala+(0.0087)Pro+(-0.2660)Met+(0.0020)Orn+(0.0582)Ile;0.756,0.794,0.738,0.754,0.712,0.776,0.721,0.741,(-0.1825)+(0.0458)Ser+(-0.2118)Asn+(0.0012)Gln+(0.0077)Pro+(-0.0231)Val+(0.0941)Phe;0.756,0.792,0.807,0.800,0.772,0.858,0.865,0.824,(2.1555)+(-0.1046)Asn+(0.0067)Gln+(-0.0120)Ala+(-0.0969)Cit+(0.0024)Arg+(0.0573)Ile;0.756,0.791,0.773,0.768,0.798,0.801,0.715,0.770,(1.8818)+(-0.0867)Cit+(-0.0141)Val+(-0.2380)Met+(0.0508)Orn+(-0.0060)Lys+(0.1025)Phe;0.756,0.794,0.791,0.765,0.764,0.862,0.866,0.814,(4.4577)+(-0.0521)Asn+(-0.0117)Ala+(-0.0967)Cit+(0.0173)Arg+(-0.0157)Lys+(0.0702)Ile;0.756,0.802,0.778,0.776,0.756,0.852,0.774,0.790,(3.4886)+(0.0306)Thr+(-0.0034)Ala+(0.0073)Tyr+(-0.0465)Val+(-0.3268)Met+(0.0826)Leu;0.756,0.790,0.769,0.750,0.785,0.840,0.737,0.778,(4.5377)+(-0.0850)Cit+(-0.0357)Val+(-0.1980)M

et+(0.0580)Orn+(-0.0063)Lys+(0.0568)Leu;0.756,0.789,0.775,0.802,0.761,0.753,0.747,0.766,(-0.6483)+(0.0015)Gly+(0.0040)Gln+(0.0106)Pro+(-0.0169)Val+(-0.3485)Met+(0.1146)Phe;0.756,0.789,0.730,0.747,0.673,0.769,0.773,0.741,(2.5015)+(-0.0044)Gly+(0.0007)Gln+(-0.0619)Tyr+(0.0129)Orn+(0.1533)Ile+(-0.0864)Leu;0.756,0.794,0.736,0.728,0.751,0.797,0.681,0.739,(0.8222)+(0.0492)Ser+(-0.0052)Gly+(-0.0679)Cit+(0.0110)Pro+(-0.2967)Met+(0.0064)Leu;0.756,0.788,0.768,0.762,0.739,0.833,0.794,0.782,(3.8571)+(-0.0064)Ala+(0.0132)Pro+(-0.0400)Val+(-0.2389)Met+(0.0314)Orn+(0.0616)Leu;0.756,0.799,0.721,0.721,0.737,0.761,0.661,0.720,(-0.3358)+(0.0469)Ser+(-0.1734)Asn+(-0.0744)Cit+(-0.0090)Arg+(0.0018)Pro+(0.0633)Phe;0.756,0.793,0.743,0.762,0.722,0.821,0.679,0.746,(-0.1447)+(0.0353)Ser+(-0.0070)Ala+(-0.0858)Cit+(-0.0475)Tyr+(-0.0172)Lys+(0.0955)Phe;0.756,0.788,0.702,0.679,0.631,0.800,0.841,0.738,(-0.2126)+(0.0285)Ser+(-0.0096)Gly+(-0.0055)Pro+(-0.0569)Val+(0.0094)Orn+(0.1561)Ile;0.756,0.799,0.770,0.793,0.767,0.771,0.714,0.761,(0.1546)+(0.0248)Thr+(-0.0034)Ala+(-0.0166)Val+(-0.3425)Met+(0.0164)Orn+(0.1214)Phe;0.756,0.791,0.778,0.756,0.781,0.824,0.798,0.790,(7.4308)+(-0.1091)His+(-0.0034)Ala+(-0.0296)Cit+(0.0065)Tyr+(-0.0740)Met+(0.0205)Leu;0.756,0.794,0.770,0.763,0.741,0.842,0.796,0.786,(4.3611)+(-0.0662)Asn+(-0.0730)Cit+(-0.0038)Pro+(-0.0041)Lys+(0.1572)Ile+(-0.0811)Leu;0.756,0.789,0.794,0.810,0.784,0.792,0.777,0.791,(2.2998)+(-0.0669)Asn+(-0.0029)Ala+(-0.0173)Val+(-0.1931)Met+(0.0322)Orn+(0.1056)Phe;0.756,0.797,0.757,0.762,0.729,0.815,0.764,0.767,(3.6287)+(0.0019)Gly+(-0.0148)Arg+(-0.0110)Tyr+(-0.1965)Met+(0.1719)Ile+(-0.0831)Leu;0.756,0.801,0.761,0.784,0.782,0.770,0.649,0.746,(0.6781)+(0.0311)Thr+(-0.0238)Arg+(-0.0191)Val+(-0.3527)Met+(0.0207)Orn+(0.1259)Phe;0.756,0.796,0.774,0.754,0.771,0.818,0.800,0.786,(6.9172)+(-0.1196)His+(-0.0028)Ala+(0.0028)Tyr+(-0.0939)Met+(0.0064)Lys+(0.0180)Leu;0.756,0.792,0.698,0.681,0.672,0.808

,0.718,0.720,(-2.2284)+(0.0237)Ser+(-0.1016)Cit+(-0.0091)Pro+(0.1768)Ile+(-0.1024)Leu+(0.0556)Phe;0.756,0.789,0.747,0.733,0.742,0.783,0.770,0.757,(6.8077)+(-0.0180)Asn+(-0.1215)His+(0.0054)Pro+(-0.0220)Tyr+(0.0043)Lys+(0.0101)Leu;0.756,0.796,0.713,0.734,0.647,0.804,0.731,0.729,(-1.8775)+(0.0329)Ser+(-0.0106)Ala+(-0.0283)Arg+(-0.0570)Tyr+(0.0478)Ile+(0.0540)Phe;0.756,0.791,0.742,0.741,0.765,0.799,0.657,0.740,(1.0755)+(0.0434)Ser+(-0.0055)Gly+(0.0136)Thr+(-0.0677)Cit+(-0.3085)Met+(0.0121)Leu;0.756,0.798,0.783,0.808,0.769,0.856,0.693,0.781,(1.6718)+(0.0361)Ser+(-0.1159)Asn+(0.0029)Gln+(-0.0097)Val+(-0.1500)Met+(0.0273)Orn;0.756,0.798,0.780,0.801,0.763,0.845,0.709,0.780,(0.8536)+(0.0386)Ser+(-0.1011)Asn+(0.0024)Gln+(-0.0034)Ala+(-0.1666)Met+(0.0209)Orn;0.756,0.797,0.796,0.804,0.774,0.787,0.824,0.797,(1.7376)+(-0.0026)Ala+(-0.0030)Tyr+(-0.0380)Val+(-0.2963)Met+(0.0556)Leu+(0.1064)Phe;0.756,0.796,0.759,0.750,0.743,0.813,0.776,0.771,(2.5140)+(0.0210)Thr+(-0.0098)Ala+(-0.0151)Arg+(0.0084)Pro+(-0.2875)Met+(0.0599)Ile;0.756,0.793,0.737,0.744,0.753,0.819,0.627,0.736,(1.6935)+(0.0397)Ser+(-0.0689)Cit+(0.0135)Pro+(-0.0051)Val+(-0.2656)Met+(-0.0008)Lys;0.756,0.795,0.767,0.767,0.741,0.790,0.806,0.776,(0.0528)+(0.0033)Gly+(-0.0079)Ala+(-0.0141)Tyr+(-0.2847)Met+(0.0561)Ile+(0.0754)Phe;0.756,0.796,0.771,0.766,0.722,0.850,0.831,0.792,(3.2504)+(0.0488)Ser+(-0.1616)Asn+(-0.0059)Gly+(-0.0035)Ala+(-0.0421)Val+(0.0674)Leu;0.756,0.795,0.731,0.744,0.737,0.796,0.636,0.728,(1.0937)+(0.0426)Ser+(-0.0836)Asn+(0.0086)Thr+(0.0093)Pro+(-0.2408)Met+(-0.0024)Lys;0.756,0.789,0.762,0.746,0.772,0.768,0.780,0.766,(1.0096)+(-0.0049)Arg+(-0.3033)Met+(0.0099)Orn+(-0.0130)Lys+(0.0455)Ile+(0.0695)Phe;0.756,0.788,0.771,0.766,0.771,0.836,0.740,0.778,(7.4173)+(-0.0203)Asn+(0.0044)Gly+(-0.1034)His+(-0.0024)Ala+(-0.0344)Cit+(0.0060)Tyr;0.756,0.797,0.770,0.791,0.764,0.848,0.671,0.769,(2.3111)+(0.0382)Ser+(-0.1060)Asn+(-0.0096)Val+(-0.1453)Met+(0.02

97)Orn+(0.0004)Lys;0.756,0.794,0.774,0.789,0.785,0.835,0.668,0.769,(2.8474)+(0.0420)Ser+(-0.0818)Asn+(-0.0606)Cit+(0.0070)Tyr+(-0.0028)Val+(-0.1565)Met;0.756,0.794,0.805,0.799,0.799,0.847,0.804,0.812,(1.8623)+(-0.1238)Asn+(0.0057)Gln+(-0.0108)Ala+(-0.1192)Cit+(0.0471)Orn+(0.0512)Phe;0.756,0.798,0.728,0.709,0.766,0.754,0.678,0.727,(-0.2632)+(0.0073)Gly+(-0.0853)Cit+(0.0029)Pro+(-0.3543)Met+(0.0463)Ile+(0.0847)Phe;0.755,0.782,0.689,0.671,0.631,0.770,0.803,0.719,(1.4958)+(-0.0039)Gln+(-0.0477)Val+(0.0111)Orn+(0.1770)Ile+(-0.0368)Leu+(0.0317)Phe;0.755,0.799,0.759,0.756,0.738,0.818,0.766,0.770,(3.5526)+(-0.0182)Arg+(-0.0004)Pro+(-0.2138)Met+(0.0184)Orn+(0.1696)Ile+(-0.0860)Leu;0.755,0.787,0.755,0.746,0.763,0.812,0.720,0.760,(7.0486)+(-0.0187)Asn+(0.0046)Gly+(-0.1125)His+(-0.0341)Cit+(-0.0038)Tyr+(0.0036)Val;0.755,0.790,0.724,0.693,0.687,0.831,0.804,0.754,(-0.5607)+(0.0305)Ser+(-0.0018)Gly+(-0.0169)Ala+(-0.1032)Cit+(0.0077)Pro+(0.0582)Ile;0.755,0.788,0.737,0.709,0.776,0.812,0.678,0.744,(2.9917)+(0.0044)Gly+(-0.1015)Cit+(-0.2202)Met+(0.0382)Orn+(-0.0144)Lys+(0.0552)Ile;0.755,0.796,0.704,0.683,0.647,0.777,0.826,0.733,(-3.0037)+(0.0450)Ser+(-0.0065)Gly+(-0.0301)Thr+(0.1688)Ile+(-0.1045)Leu+(0.0478)Phe;0.755,0.801,0.768,0.781,0.727,0.828,0.774,0.778,(-0.6729)+(0.0442)Ser+(-0.1572)Asn+(0.0018)Gln+(-0.0071)Ala+(-0.0121)Lys+(0.0738)Phe;0.755,0.799,0.766,0.766,0.739,0.820,0.785,0.777,(3.7496)+(-0.0013)Asn+(-0.0137)Arg+(0.0006)Pro+(-0.2127)Met+(0.1695)Ile+(-0.0832)Leu;0.755,0.787,0.727,0.718,0.676,0.812,0.794,0.750,(2.3637)+(0.0011)Gly+(-0.0695)Cit+(-0.0051)Pro+(-0.0381)Val+(0.1885)Ile+(-0.0429)Leu;0.755,0.796,0.769,0.799,0.771,0.751,0.700,0.755,(-1.0569)+(0.0001)Gly+(0.0032)Gln+(0.0258)Thr+(-0.0167)Val+(-0.3897)Met+(0.1251)Phe;0.755,0.796,0.757,0.738,0.760,0.791,0.774,0.766,(6.6191)+(-0.1177)His+(0.0070)Pro+(-0.0074)Tyr+(-0.1196)Met+(0.0073)Lys+(0.0128)Leu;0.755,0.794,0.785,0.784,0.794,0.817,0.745,0.785,(1.9080)+

(-0.0054)Ala+(-0.0933)Cit+(-0.0125)Val+(-0.2134)Met+(0.0512)Orn+(0.1002)Phe;0.755,0.793,0.761,0.739,0.773,0.794,0.774,0.770,(6.8137)+(-0.1125)His+(-0.0255)Cit+(0.0067)Pro+(-0.1253)Met+(0.0067)Lys+(0.0130)Leu;0.755,0.792,0.762,0.753,0.761,0.803,0.760,0.769,(7.0305)+(0.0059)Asn+(-0.1074)His+(0.0082)Pro+(-0.0032)Tyr+(0.0009)Val+(-0.0886)Met;0.755,0.787,0.742,0.767,0.699,0.794,0.725,0.746,(2.4159)+(0.0034)Gln+(0.0029)Thr+(-0.0334)Arg+(-0.0508)Tyr+(0.1677)Ile+(-0.0919)Leu;0.755,0.798,0.768,0.797,0.767,0.760,0.699,0.756,(-0.9477)+(0.0027)Gln+(0.0236)Thr+(-0.0179)Val+(-0.3815)Met+(0.0121)Orn+(0.1223)Phe;0.755,0.797,0.772,0.785,0.767,0.820,0.715,0.772,(2.0617)+(0.0482)Ser+(-0.0879)Asn+(-0.0072)Gly+(0.0131)Thr+(-0.0083)Tyr+(-0.2039)Met;0.755,0.794,0.731,0.732,0.752,0.802,0.634,0.730,(0.1885)+(0.0403)Ser+(0.0019)Gln+(-0.0785)Cit+(0.0107)Pro+(-0.3059)Met+(0.0068)Leu;0.755,0.789,0.770,0.766,0.752,0.821,0.781,0.780,(5.1341)+(-0.0802)Asn+(0.0092)Pro+(-0.0469)Val+(-0.1887)Met+(0.0381)Orn+(0.0659)Leu;0.755,0.797,0.717,0.713,0.730,0.758,0.675,0.719,(-0.5006)+(0.0478)Ser+(-0.1733)Asn+(-0.0052)Thr+(-0.0791)Cit+(0.0020)Pro+(0.0629)Phe;0.755,0.787,0.772,0.769,0.770,0.833,0.743,0.779,(7.4616)+(-0.0213)Asn+(0.0042)Gly+(-0.1018)His+(-0.0022)Ala+(-0.0357)Cit+(0.0030)Arg;0.755,0.794,0.808,0.817,0.778,0.854,0.814,0.816,(3.6313)+(-0.1067)Asn+(0.0057)Gln+(-0.0474)Val+(-0.1771)Met+(0.0359)Orn+(0.0705)Leu;0.755,0.794,0.790,0.772,0.803,0.848,0.770,0.798,(3.9290)+(-0.0729)Asn+(-0.0096)Ala+(-0.1159)Cit+(0.0596)Orn+(-0.0140)Lys+(0.0593)Phe;0.755,0.789,0.751,0.713,0.784,0.812,0.736,0.761,(3.4356)+(-0.1034)Cit+(0.0103)Arg+(-0.2170)Met+(0.0404)Orn+(-0.0169)Lys+(0.0531)Ile;0.755,0.783,0.719,0.700,0.671,0.803,0.808,0.745,(2.6947)+(0.0011)Gly+(-0.0014)Gln+(-0.0623)Cit+(-0.0036)Pro+(-0.0520)Val+(0.1567)Ile;0.755,0.803,0.751,0.748,0.752,0.831,0.701,0.758,(1.5176)+(0.0395)Ser+(-0.0547)Cit+(0.0007)Arg+(-0.0334)Val+(-0.2748)Met+(0.0660)Leu;0.75

5,0.791,0.788,0.807,0.777,0.774,0.767,0.781,(-0.5156)+(-0.0757)Asn+(0.0050)Gln+(0.0242)Thr+(-0.0055)Ala+(-0.3100)Met+(0.0955)Phe;0.755,0.788,0.754,0.747,0.752,0.802,0.744,0.761,(6.7690)+(-0.0280)Asn+(0.0033)Gly+(-0.1194)His+(-0.0090)Tyr+(0.0009)Val+(0.0069)Lys;0.755,0.800,0.762,0.766,0.733,0.813,0.777,0.772,(3.9489)+(-0.0138)Arg+(0.0012)Pro+(-0.0142)Tyr+(-0.1905)Met+(0.1691)Ile+(-0.0827)Leu;0.755,0.794,0.741,0.758,0.741,0.803,0.651,0.738,(0.3446)+(0.0410)Ser+(-0.0953)Asn+(0.0025)Gln+(0.0073)Thr+(0.0088)Pro+(-0.2494)Met;0.755,0.788,0.757,0.750,0.756,0.811,0.739,0.764,(6.9873)+(-0.0151)Asn+(0.0035)Gly+(-0.1174)His+(-0.0035)Arg+(-0.0042)Tyr+(0.0025)Val;0.755,0.796,0.750,0.770,0.766,0.822,0.614,0.743,(1.4634)+(0.0399)Ser+(-0.0865)Asn+(0.0096)Thr+(-0.0136)Arg+(-0.2043)Met+(0.0193)Orn;0.755,0.795,0.728,0.740,0.735,0.791,0.635,0.725,(0.6665)+(0.0436)Ser+(-0.0845)Asn+(0.0082)Thr+(0.0087)Pro+(-0.2587)Met+(0.0041)Leu;0.755,0.785,0.724,0.708,0.672,0.807,0.815,0.750,(2.2480)+(0.0007)Gly+(-0.0018)Thr+(-0.0637)Cit+(-0.0039)Pro+(-0.0515)Val+(0.1549)Ile;0.755,0.793,0.768,0.766,0.699,0.834,0.866,0.791,(2.1952)+(-0.0108)Thr+(-0.0118)Ala+(0.0038)Pro+(0.0099)Orn+(0.1646)Ile+(-0.0865)Leu;0.755,0.786,0.752,0.777,0.705,0.798,0.754,0.759,(2.5993)+(-0.0023)Gly+(0.0042)Gln+(-0.0310)Arg+(-0.0508)Tyr+(0.1674)Ile+(-0.0920)Leu;0.755,0.799,0.750,0.785,0.754,0.729,0.665,0.733,(0.2946)+(-0.0001)Gly+(0.0305)Thr+(-0.0309)Tyr+(-0.0161)Val+(-0.3419)Met+(0.1358)Phe;0.755,0.794,0.771,0.764,0.779,0.840,0.724,0.777,(2.5759)+(-0.1085)Asn+(0.0060)Gly+(-0.0106)Ala+
(-0.1222)Cit+(0.0520)Orn+(0.0593)Phe;0.755,0.790,0.773,0.770,0.768,0.840,0.745,0.781,(5.5465)+(-0.0723)Asn+(-0.0104)Ala+(-0.1106)Cit+(0.0118)Pro+(-0.0345)Tyr+(0.0576)Orn;0.755,0.789,0.770,0.755,0.781,0.833,0.740,0.777,(4.2167)+(-0.0837)Cit+(0.0010)Arg+(-0.0372)Val+(-0.2184)Met+(0.0544)Orn+(0.0570)Leu;0.755,0.793,0.738,0.747,0.756,0.810,0.626,0

.735,(0.5711)+(0.0391)Ser+(0.0024)Gln+(-0.0734)Cit+(-0.0059)Arg+(0.0117)Pro+(-0.2858)Met;0.755,0.794,0.794,0.791,0.757,0.841,0.849,0.809,(1.4743)+(0.0047)Gln+(-0.0076)Ala+(-0.0034)Tyr+(-0.2269)Met+(-0.0112)Lys+(0.0708)Ile;0.755,0.791,0.768,0.778,0.780,0.821,0.683,0.765,(1.1209)+(0.0391)Ser+(-0.0064)Gly+(0.0027)Gln+(0.0118)Thr+(-0.0679)Cit+(-0.2814)Met;0.755,0.800,0.744,0.735,0.685,0.841,0.822,0.771,(-0.4802)+(0.0441)Ser+(-0.1389)Asn+(0.0011)Gln+(-0.0078)Thr+(-0.0099)Ala+(0.0553)Ile;0.755,0.795,0.751,0.756,0.749,0.796,0.710,0.753,(1.3141)+(0.0545)Ser+(-0.0682)Asn+(-0.0065)Gly+(-0.0099)Arg+(0.0103)Pro+(-0.2240)Met;0.755,0.792,0.792,0.812,0.783,0.785,0.760,0.785,(-0.3518)+(0.0038)Gln+(-0.0155)Val+(-0.3003)Met+(0.0233)Orn+(-0.0042)Lys+(0.1081)Phe;0.755,0.790,0.731,0.747,0.677,0.771,0.775,0.743,(2.7339)+(-0.0039)Gly+(-0.0024)Pro+(-0.0596)Tyr+(0.0149)Orn+(0.1570)Ile+(-0.0870)Leu;0.755,0.789,0.761,0.753,0.763,0.841,0.718,0.769,(5.4315)+(-0.1404)Asn+(0.0038)Gly+(-0.0926)Cit+(-0.0416)Val+(0.0632)Orn+(0.0536)Leu;0.755,0.788,0.728,0.745,0.697,0.786,0.706,0.733,(3.4305)+(0.0026)Thr+(-0.0320)Arg+(-0.0529)Tyr+(0.0225)Orn+(0.1642)Ile+(-0.0921)Leu;0.755,0.791,0.784,0.760,0.761,0.849,0.852,0.805,(4.4706)+(-0.0440)Asn+(-0.0131)Ala+(-0.0842)Cit+(0.0080)Pro+(-0.0118)Lys+(0.0607)Ile;0.755,0.790,0.782,0.767,0.793,0.844,0.753,0.789,(5.0012)+(-0.0419)Asn+(-0.0101)Ala+(-0.1072)Cit+(0.0124)Pro+(-0.1228)Met+(0.0528)Orn;0.755,0.784,0.773,0.762,0.766,0.814,0.787,0.782,(7.3124)+(-0.0162)Asn+(-0.1157)His+(-0.0027)Ala+(-0.0060)Arg+(0.0009)Val+(0.0079)Lys;0.755,0.793,0.740,0.742,0.758,0.742,0.693,0.734,(-1.8886)+(0.0048)Gln+(0.0265)Thr+(-0.0269)Arg+(-0.4396)Met+(0.0412)Ile+(0.0818)Phe;0.755,0.797,0.745,0.764,0.720,0.838,0.679,0.750,(1.2125)+(0.0343)Ser+(0.0060)Thr+(-0.0064)Ala+(0.0169)Pro+(-0.0065)Val+(-0.2630)Met;0.755,0.798,0.755,0.762,0.714,0.818,0.779,0.768,(-0.7729)+(0.0449)Ser+(-0.1661)Asn+(-0.0060)Thr+(-0.0081)Ala+(0.0140)Or

n+(0.0637)Phe;0.755,0.797,0.771,0.790,0.730,0.819,0.771,0.777,(-0.659
5)+(0.0418)Ser+(-0.1776)Asn+(0.0016)Gln+(-0.0068)Ala+(-0.0119)Leu+(0.
0779)Phe;0.755,0.795,0.790,0.800,0.775,0.774,0.806,0.789,(1.7502)+(-0
.0026)Arg+(-0.0055)Tyr+(-0.0388)Val+(-0.3082)Met+(0.0545)Leu+(0.1080)
Phe;0.755,0.789,0.691,0.663,0.620,0.785,0.844,0.728,(-0.8974)+(0.0291
)Ser+(-0.0100)Gly+(-0.0579)Val+(0.0055)Orn+(0.1479)Ile+(0.0155)Phe;0.
755,0.796,0.800,0.830,0.776,0.860,0.729,0.799,(1.4761)+(0.0369)Ser+(-
0.1052)Asn+(0.0039)Gln+(-0.0016)Ala+(-0.0053)Val+(-0.1428)Met;0.755,0
.782,0.718,0.707,0.652,0.794,0.828,0.745,(1.5864)+(-0.0030)Gly+(-0.00
67)Pro+(-0.0456)Val+(0.0140)Orn+(0.1859)Ile+(-0.0375)Leu;0.755,0.799,
0.757,0.741,0.778,0.817,0.716,0.763,(1.6578)+(0.0053)Gln+(0.0242)Thr+
(-0.0883)Cit+(-0.3205)Met+(-0.0152)Lys+(0.0661)Ile;0.755,0.792,0.765,
0.748,0.777,0.765,0.788,0.770,(0.9699)+(-0.0036)Arg+(0.0029)Pro+(-0.3
167)Met+(-0.0118)Lys+(0.0449)Ile+(0.0731)Phe;0.755,0.789,0.777,0.782,
0.783,0.842,0.705,0.778,(5.2122)+(-0.0813)Asn+(0.0033)Gly+(-0.0076)Al
a+(-0.1162)Cit+(-0.0240)Tyr+(0.0616)Orn;0.755,0.789,0.749,0.733,0.746
,0.788,0.767,0.759,(6.9513)+(-0.0109)Asn+(-0.1196)His+(-0.0019)Arg+(0
.0054)Pro+(-0.0189)Tyr+(0.0118)Leu;0.755,0.795,0.741,0.748,0.747,0.77
2,0.686,0.738,(-1.1528)+(0.0439)Ser+(-0.1900)Asn+(0.0042)Gln+(-0.0798
)Cit+(-0.0105)Arg+(0.0634)Phe;0.755,0.798,0.768,0.786,0.755,0.841,0.6
93,0.769,(1.5098)+(0.0402)Ser+(-0.0933)Asn+(-0.0034)Ala+(-0.0036)Tyr+
(-0.1547)Met+(0.0237)Orn;0.755,0.797,0.771,0.801,0.776,0.829,0.638,0.
761,(0.9636)+(0.0366)Ser+(-0.0951)Asn+(0.0037)Gln+(0.0128)Thr+(-0.014
0)Arg+(-0.2105)Met;0.755,0.791,0.760,0.754,0.762,0.809,0.737,0.766,(6
.5342)+(-0.0071)Asn+(0.0038)Gly+(-0.1185)His+(0.0023)Val+(-0.0912)Met
+(0.0095)Lys;0.755,0.791,0.763,0.769,0.777,0.827,0.670,0.761,(2.1219)
+(0.0403)Ser+(-0.0061)Gly+(0.0135)Thr+(-0.0616)Cit+(-0.0021)Val+(-0.2
647)Met;0.755,0.789,0.770,0.758,0.743,0.815,0.827,0.786,(2.6314)+(-0.

0143)Asn+(-0.0100)Ala+(0.0089)Pro+(-0.2291)Met+(0.0079)Orn+(0.0553)Il
e;0.755,0.787,0.814,0.844,0.798,0.787,0.788,0.804,(0.0747)+(-0.0844)A
sn+(0.0022)Gly+(0.0065)Gln+(-0.0158)Val+(-0.2432)Met+(0.1145)Phe;0.75
5,0.786,0.750,0.732,0.756,0.790,0.760,0.759,(7.1488)+(-0.0114)Asn+(-0
.1142)His+(-0.0268)Cit+(0.0054)Pro+(-0.0186)Tyr+(0.0124)Leu;0.755,0.7
98,0.770,0.791,0.773,0.847,0.652,0.766,(2.6217)+(0.0386)Ser+(-0.0979)
Asn+(-0.0127)Arg+(-0.0099)Val+(-0.1304)Met+(0.0331)Orn;0.755,0.794,0.
772,0.774,0.721,0.843,0.823,0.790,(3.1403)+(-0.0015)Thr+(-0.0103)Ala+
(-0.0278)Arg+(0.0186)Orn+(0.1748)Ile+(-0.0921)Leu;0.755,0.789,0.720,0
.704,0.666,0.798,0.819,0.747,(0.9894)+(0.0010)Gly+(-0.0688)Cit+(-0.00
55)Pro+(-0.0536)Val+(0.1530)Ile+(0.0328)Phe;0.755,0.797,0.758,0.756,0
.738,0.815,0.764,0.768,(3.4394)+(-0.0196)Arg+(-0.2203)Met+(0.0170)Orn
+(0.0031)Lys+(0.1705)Ile+(-0.0878)Leu;0.755,0.804,0.760,0.748,0.736,0
.832,0.788,0.776,(0.7190)+(0.0484)Ser+(-0.0063)Gly+(0.0154)Tyr+(-0.04
04)Val+(-0.3121)Met+(0.0736)Leu;0.755,0.789,0.804,0.813,0.796,0.850,0
.763,0.806,(3.9853)+(-0.1034)Asn+(0.0061)Gln+(-0.0075)Ala+(-0.1166)Ci
t+(-0.0306)Tyr+(0.0568)Orn;0.755,0.790,0.760,0.766,0.778,0.805,0.673,
0.755,(3.0442)+(-0.1486)Asn+(0.0055)Gly+(-0.1014)Cit+(-0.0215)Val+(0.
0578)Orn+(0.0838)Phe;0.755,0.787,0.717,0.690,0.683,0.827,0.779,0.745,
(-1.1001)+(0.0317)Ser+(-0.0020)Gln+(-0.0157)Ala+(-0.1021)Cit+(0.0593)
Ile+(0.0289)Phe;0.755,0.804,0.752,0.749,0.753,0.836,0.700,0.759,(1.67
60)+(0.0405)Ser+(-0.0546)Cit+(-0.0325)Val+(-0.2597)Met+(-0.0044)Lys+(
0.0664)Leu;0.755,0.792,0.751,0.761,0.719,0.792,0.759,0.758,(1.7910)+(
-0.0957)Asn+(0.0042)Gly+(-0.0259)Arg+(0.1546)Ile+(-0.0977)Leu+(0.0641
)Phe;0.755,0.796,0.780,0.784,0.765,0.828,0.766,0.786,(1.2976)+(0.0519
)Ser+(-0.0774)Asn+(-0.0060)Gly+(-0.0030)Ala+(-0.1835)Met+(0.0099)Leu;
0.755,0.792,0.728,0.705,0.697,0.841,0.770,0.753,(-0.3092)+(0.0313)Ser
+(-0.0007)Gln+(-0.0144)Ala+(-0.0917)Cit+(-0.0099)Arg+(0.0653)Ile;0.75

5,0.791,0.773,0.772,0.765,0.826,0.751,0.779,(7.2876)+(-0.0064)Asn+(0.0033)Gly+(-0.1072)His+(-0.0012)Ala+(-0.0014)Arg+(-0.0396)Met;0.755,0.797,0.766,0.763,0.724,0.803,0.836,0.781,(2.0507)+(-0.1001)Asn+(-0.0052)Pro+(-0.0059)Lys+(0.1510)Ile+(-0.0906)Leu+(0.0592)Phe;0.755,0.783,0.734,0.718,0.745,0.798,0.708,0.742,(6.1838)+(0.0042)Gly+(-0.1214)His+(-0.0336)Cit+(0.0053)Pro+(0.0009)Val+(0.0023)Lys;0.755,0.801,0.716,0.692,0.669,0.809,0.809,0.745,(-0.4901)+(0.0456)Ser+(-0.0074)Gly+(-0.0187)Thr+(-0.0151)Lys+(0.1561)Ile+(-0.0808)Leu;0.755,0.795,0.769,0.792,0.759,0.842,0.675,0.767,(3.5983)+(0.0354)Ser+(-0.1221)Asn+(0.0079)Thr+(-0.0050)Ala+(-0.0705)Cit+(-0.0178)Tyr;0.755,0.792,0.811,0.804,0.817,0.872,0.773,0.816,(4.0099)+(-0.0939)Asn+(0.0062)Gln+(-0.0083)Ala+(-0.1219)Cit+(0.0604)Orn+(-0.0116)Lys;0.755,0.797,0.729,0.727,0.740,0.766,0.682,0.729,(-0.1799)+(0.0490)Ser+(-0.1710)Asn+(-0.0018)Gly+(-0.0717)Cit+(-0.0088)Arg+(0.0634)Phe;0.754,0.792,0.774,0.768,0.779,0.840,0.735,0.780,(7.2134)+(0.0047)Gly+(-0.1032)His+(-0.0019)Ala+(-0.0340)Cit+(0.0159)Tyr+(-0.0649)Met;0.754,0.790,0.769,0.773,0.745,0.823,0.770,0.778,(2.6552)+(0.0027)Gln+(0.0092)Pro+(-0.0427)Val+(-0.2877)Met+(0.0277)Orn+(0.0623)Leu;0.754,0.786,0.744,0.769,0.701,0.795,0.733,0.749,(2.3806)+(0.0037)Gln+(-0.0318)Arg+(-0.0489)Tyr+(-0.0002)Lys+(0.1682)Ile+(-0.0920)Leu;0.754,0.798,0.751,0.786,0.769,0.746,0.627,0.732,(0.9628)+(0.0377)Thr+(-0.0222)Arg+(-0.0330)Tyr+(-0.0164)Val+(-0.3284)Met+(0.1409)Phe;0.754,0.793,0.784,0.809,0.767,0.848,0.706,0.782,(2.3085)+(0.0399)Ser+(-0.0931)Asn+(-0.0017)Ala+(-0.0051)Val+(-0.1418)Met+(0.0029)Lys;0.754,0.802,0.730,0.721,0.665,0.828,0.818,0.758,(0.3269)+(0.0439)Ser+(-0.0079)Gly+(-0.0093)Ala+(-0.0363)Tyr+(-0.0217)Lys+(0.0675)Ile;0.754,0.787,0.688,0.670,0.619,0.788,0.807,0.721,(-1.5780)+(0.0266)Ser+(-0.0194)Thr+(-0.0537)Val+(0.0088)Orn+(0.1413)Ile+(0.0234)Phe;0.754,0.793,0.779,0.766,0.757,0.828,0.824,0.794,(3.0228)+(-0.0078)Ala+(-0.00

49)Arg+(-0.2001)Met+(0.0171)Orn+(-0.0102)Lys+(0.0651)Ile;0.754,0.783,0.707,0.692,0.641,0.776,0.833,0.735,(1.8000)+(-0.0032)Gln+(-0.0023)Thr+(-0.0047)Pro+(-0.0576)Val+(0.1578)Ile+(0.0289)Phe;0.754,0.794,0.761,0.760,0.721,0.821,0.804,0.776,(-0.2945)+(0.0488)Ser+(-0.1705)Asn+(-0.0048)Gly+(-0.0084)Ala+(0.0119)Orn+(0.0599)Phe;0.754,0.786,0.783,0.763,0.761,0.844,0.835,0.801,(3.9030)+(-0.0901)Asn+(0.0120)Thr+(-0.0124)Ala+(-0.0913)Cit+(0.0032)Arg+(0.0568)Ile;0.754,0.797,0.742,0.748,0.692,0.810,0.783,0.758,(-0.7021)+(0.0434)Ser+(-0.1746)Asn+(0.0004)Gln+(-0.0108)Ala+(0.0096)Pro+(0.0625)Phe;0.754,0.797,0.769,0.790,0.763,0.846,0.669,0.767,(2.3804)+(0.0380)Ser+(-0.1060)Asn+(-0.0031)Tyr+(-0.0094)Val+(-0.1389)Met+(0.0302)Orn;0.754,0.791,0.763,0.752,0.762,0.804,0.762,0.770,(7.0254)+(0.0069)Asn+(-0.1076)His+(-0.0010)Arg+(0.0081)Pro+(0.0008)Val+(-0.0923)Met;0.754,0.797,0.770,0.760,0.789,0.805,0.731,0.771,(1.4433)+(-0.0597)Asn+(0.0064)Gln+(0.0230)Thr+(-0.0889)Cit+(-0.3090)Met+(0.0531)Ile;0.754,0.797,0.738,0.735,0.775,0.820,0.609,0.735,(0.6147)+(0.0358)Ser+(0.0008)Gln+(-0.0989)Cit+(-0.2713)Met+(0.0371)Orn+(0.0061)Leu;0.754,0.796,0.765,0.762,0.724,0.797,0.837,0.780,(1.8097)+(-0.1112)Asn+(0.0001)Thr+(-0.0053)Pro+(0.1511)Ile+(-0.0935)Leu+(0.0583)Phe;0.754,0.793,0.762,0.770,0.747,0.817,0.731,0.766,(2.4981)+(0.0520)Ser+(-0.0864)Asn+(-0.0068)Gly+(0.0132)Pro+(-0.0102)Val+(-0.1904)Met;0.754,0.786,0.792,0.807,0.772,0.778,0.801,0.790,(2.4967)+(-0.0472)Asn+(-0.0057)Ala+(0.0141)Pro+(-0.0153)Val+(-0.2301)Met+(0.1097)Phe;0.754,0.803,0.711,0.716,0.643,0.811,0.771,0.735,(-1.4344)+(0.0349)Ser+(-0.0099)Ala+(-0.0492)Tyr+(-0.0250)Lys+(0.0595)Ile+(0.0550)Phe;0.754,0.795,0.767,0.770,0.765,0.820,0.726,0.770,(1.4494)+(0.0514)Ser+(-0.0837)Asn+(-0.0070)Gly+(-0.1818)Met+(0.0244)Orn+(-0.0046)Lys;0.754,0.785,0.742,0.730,0.746,0.795,0.725,0.749,(6.4389)+(-0.0293)Asn+(0.0042)Gly+(-0.1213)His+(-0.0089)Arg+(0.0057)Pro+(0.0070)Lys;0.754,0.802,0.743,0.7

31,0.796,0.786,0.631,0.736,(1.2936)+(0.0288)Thr+(-0.1030)Cit+(-0.3343)Met+(0.0360)Orn+(-0.0160)Lys+(0.0996)Phe;0.754,0.796,0.758,0.779,0.768,0.759,0.684,0.748,(0.2732)+(0.0258)Thr+(-0.0171)Val+(-0.3520)Met+(0.0173)Orn+(-0.0060)Lys+(0.1223)Phe;0.754,0.795,0.729,0.741,0.735,0.802,0.636,0.728,(0.7196)+(0.0429)Ser+(-0.0893)Asn+(0.0056)Thr+(0.0084)Pro+(-0.2438)Met+(0.0124)Orn;0.754,0.793,0.761,0.740,0.772,0.799,0.769,0.770,(7.1327)+(-0.1082)His+(-0.0256)Cit+(0.0066)Pro+(-0.0043)Tyr+(-0.0993)Met+(0.0154)Leu;0.754,0.793,0.740,0.744,0.740,0.769,0.706,0.740,(-1.3121)+(0.0451)Ser+(-0.1899)Asn+(0.0040)Gln+(-0.0057)Thr+(-0.0851)Cit+(0.0633)Phe;0.754,0.792,0.756,0.781,0.771,0.822,0.610,0.746,(1.8545)+(0.0393)Ser+(-0.0828)Asn+(0.0137)Thr+(-0.0118)Arg+(-0.2057)Met+(-0.0001)Lys;0.754,0.795,0.765,0.773,0.767,0.797,0.718,0.764,(0.9572)+(0.0069)Gly+(-0.0094)Ala+(-0.0826)Cit+(0.0143)Pro+(-0.2695)Met+(0.1027)Phe;0.754,0.786,0.788,0.805,0.784,0.778,0.760,0.782,(2.1681)+(-0.0697)Asn+(-0.0191)Val+(-0.2121)Met+(0.0315)Orn+(0.0009)Lys+(0.1059)Phe;0.754,0.797,0.773,0.776,0.764,0.854,0.721,0.779,(2.8759)+(0.0402)Ser+(-0.1057)Asn+(-0.0063)Ala+(-0.0738)Cit+(-0.0084)Lys+(0.0120)Leu;0.754,0.795,0.741,0.747,0.757,0.816,0.634,0.739,(0.7276)+(0.0388)Ser+(0.0024)Gln+(-0.0773)Cit+(0.0117)Pro+(-0.2755)Met+(-0.0042)Lys;0.754,0.795,0.726,0.718,0.736,0.762,0.696,0.728,(-0.3345)+(0.0494)Ser+(-0.1722)Asn+(-0.0016)Gly+(-0.0042)Thr+(-0.0766)Cit+(0.0632)Phe;0.754,0.786,0.754,0.744,0.763,0.813,0.723,0.761,(6.9473)+(-0.0216)Asn+(0.0047)Gly+(-0.1134)His+(-0.0357)Cit+(0.0018)Arg+(0.0033)Val;0.754,0.793,0.782,0.792,0.784,0.831,0.715,0.780,(3.1054)+(0.0480)Ser+(-0.0797)Asn+(-0.0050)Gly+(-0.0532)Cit+(-0.0030)Val+(-0.1458)Met;0.754,0.792,0.757,0.749,0.770,0.812,0.715,0.761,(6.6575)+(0.0048)Gly+(-0.1143)His+(-0.0325)Cit+(0.0039)Val+(-0.0941)Met+(0.0084)Lys;0.754,0.785,0.760,0.756,0.753,0.814,0.745,0.767,(6.8106)+(

0.0030)Gly+(-0.1196)His+(-0.0023)Ala+(-0.0093)Arg+(-0.0041)Tyr+(0.0085)Lys;0.754,0.795,0.761,0.752,0.761,0.796,0.762,0.768,(6.7221)+(-0.1106)His+(0.0090)Pro+(-0.0064)Tyr+(-0.0013)Val+(-0.1120)Met+(0.0104)Lys;0.754,0.795,0.750,0.750,0.709,0.792,0.803,0.763,(1.6574)+(-0.1136)Asn+(0.0030)Gly+(-0.0059)Lys+(0.1424)Ile+(-0.0886)Leu+(0.0587)Phe;0.754,0.791,0.776,0.765,0.750,0.817,0.831,0.791,(2.9001)+(-0.0059)Asn+(-0.0099)Ala+(-0.0062)Arg+(0.0093)Pro+(-0.2251)Met+(0.0584)Ile;0.754,0.805,0.760,0.753,0.753,0.823,0.748,0.769,(1.6619)+(0.0466)Ser+(-0.0052)Gly+(-0.0469)Cit+(-0.0336)Val+(-0.2714)Met+(0.0653)Leu;0.754,0.785,0.737,0.728,0.741,0.795,0.709,0.743,(6.4287)+(0.0036)Gly+(-0.1161)His+(-0.0315)Cit+(0.0070)Pro+(-0.0166)Tyr+(0.0046)Lys;0.754,0.795,0.762,0.752,0.773,0.822,0.720,0.767,(6.8706)+(0.0049)Gly+(-0.1111)His+(-0.0382)Cit+(0.0046)Arg+(0.0056)Val+(-0.0730)Met;0.754,0.797,0.758,0.782,0.764,0.754,0.681,0.745,(-0.0787)+(0.0004)Gly+(0.0245)Thr+(-0.0182)Val+(-0.3660)Met+(0.0152)Orn+(0.1224)Phe;0.754,0.797,0.750,0.744,0.769,0.820,0.675,0.752,(0.9421)+(0.0393)Ser+(-0.1637)Asn+(0.0034)Gln+(-0.0090)Thr+(-0.1052)Cit+(0.0423)Orn;0.754,0.797,0.767,0.803,0.766,0.743,0.688,0.750,(4.0846)+(-0.1474)Asn+(0.0275)Thr+(-0.0612)Cit+(-0.0653)Tyr+(-0.0172)Val+(0.1181)Phe;0.754,0.796,0.752,0.770,0.732,0.833,0.687,0.756,(0.6679)+(0.0385)Ser+(0.0009)Gln+(-0.0069)Ala+(-0.0149)Arg+(0.0161)Pro+(-0.2426)Met;0.754,0.795,0.761,0.750,0.761,0.796,0.764,0.768,(6.7105)+(-0.0004)Asn+(-0.1119)His+(0.0086)Pro+(-0.0072)Tyr+(-0.1104)Met+(0.0099)Lys;0.754,0.790,0.775,0.758,0.789,0.848,0.736,0.783,(4.7823)+(-0.0101)Ala+(-0.1093)Cit+(0.0128)Pro+(-0.1390)Met+(0.0559)Orn+(-0.0073)Lys;0.754,0.789,0.789,0.780,0.802,0.825,0.762,0.792,(2.6145)+(-0.0428)Asn+(-0.0077)Ala+(-0.1012)Cit+(-0.1695)Met+(0.0473)Orn+(0.0781)Phe;0.754,0.787,0.824,0.852,0.802,0.795,0.817,0.817,(0.3560)+(-0.0790)Asn+(0.0068)Gln+(-0.0022)Ala+(-0.0145)Val+(-0.2269)Met+(0.1116)Phe;0

.754,0.803,0.794,0.807,0.803,0.776,0.756,0.786,(6.0109)+(-0.0003)Gly+(-0.0109)Arg+(-0.0068)Tyr+(0.0024)Lys+(0.0092)Leu+(-0.1491)Trp;0.754,0.798,0.772,0.777,0.723,0.802,0.841,0.786,(0.7400)+(-0.1332)Asn+(0.0040)Gln+(-0.0029)Thr+(0.1421)Ile+(-0.0916)Leu+(0.0530)Phe;0.754,0.793,0.756,0.783,0.769,0.821,0.610,0.746,(1.9305)+(0.0390)Ser+(-0.0833)Asn+(0.0139)Thr+(-0.0118)Arg+(-0.0028)Tyr+(-0.2007)Met;0.754,0.792,0.758,0.772,0.748,0.763,0.741,0.756,(0.1202)+(0.0215)Thr+(-0.0083)Ala+(0.0126)Pro+(-0.3543)Met+(-0.0086)Leu+(0.1052)Phe;0.754,0.794,0.742,0.740,0.754,0.805,0.676,0.744,(1.3214)+(0.0490)Ser+(-0.0055)Gly+(-0.0624)Cit+(-0.0053)Arg+(0.0120)Pro+(-0.2764)Met;0.754,0.788,0.737,0.758,0.700,0.786,0.725,0.742,(3.8192)+(-0.0015)Gly+(0.0068)Thr+(-0.0287)Arg+(-0.0523)Tyr+(0.1648)Ile+(-0.0894)Leu;0.754,0.791,0.773,0.768,0.769,0.832,0.754,0.781,(7.0392)+(0.0036)Gly+(-0.1099)His+(-0.0015)Ala+(-0.0018)Arg+(0.0126)Tyr+(-0.0634)Met;0.754,0.783,0.751,0.740,0.760,0.808,0.722,0.757,(6.8218)+(-0.0292)Asn+(0.0046)Gly+(-0.1150)His+(-0.0329)Cit+(0.0017)Val+(0.0053)Lys;0.754,0.789,0.787,0.777,0.806,0.856,0.726,0.791,(5.7165)+(-0.0818)Asn+(0.0126)Thr+(-0.0087)Ala+(-0.1202)Cit+(0.0615)Orn+(-0.0123)Lys;0.754,0.785,0.719,0.712,0.653,0.799,0.820,0.746,(1.5321)+(-0.0083)Thr+(-0.0061)Pro+(-0.0430)Val+(0.0161)Orn+(0.1863)Ile+(-0.0407)Leu;0.754,0.794,0.744,0.765,0.776,0.748,0.616,0.726,(0.2729)+(0.0040)Gly+(0.0305)Thr+(-0.0742)Cit+(-0.0132)Val+(-0.3781)Met+(0.1326)Phe;0.754,0.796,0.776,0.799,0.773,0.783,0.715,0.767,(1.3413)+(-0.1346)Asn+(0.0070)Gln+(-0.1095)Cit+(-0.0710)Tyr+(0.0432)Orn+(0.0712)Phe;0.754,0.795,0.760,0.764,0.787,0.795,0.668,0.753,(0.7971)+(0.0042)Gly+(-0.0914)Cit+(-0.0151)Val+(-0.2695)Met+(0.0460)Orn+(0.1106)Phe;0.754,0.794,0.738,0.732,0.766,0.821,0.634,0.738,(2.3230)+(0.0372)Ser+(-0.1582)Asn+(-0.1019)Cit+(0.0031)Pro+(0.0443)Orn+(-0.0100)Leu;0.754,0.788,0.788,0.793,0.788,0.848,0.730,0.790,(6.2156)+(-0.0815)Asn+(-0.0054

)Ala+(-0.1048)Cit+(-0.0219)Tyr+(-0.0088)Val+(0.0671)Orn;0.754,0.794,0.766,0.774,0.758,0.814,0.725,0.768,(1.5749)+(0.0510)Ser+(-0.0899)Asn+(-0.0073)Gly+(-0.0138)Tyr+(-0.1708)Met+(0.0239)Orn;0.754,0.791,0.760,0.748,0.765,0.796,0.759,0.767,(6.7508)+(0.0041)Asn+(-0.1127)His+(-0.0060)Arg+(0.0083)Pro+(-0.1190)Met+(0.0107)Lys;0.754,0.795,0.781,0.773,0.810,0.809,0.720,0.778,(-0.1752)+(0.0060)Gln+(-0.1000)Cit+(-0.2778)Met+(0.0394)Orn+(-0.0145)Lys+(0.0903)Phe;0.754,0.791,0.759,0.766,0.775,0.820,0.665,0.757,(1.8763)+(0.0411)Ser+(-0.0060)Gly+(0.0131)Thr+(-0.0637)Cit+(-0.0003)Tyr+(-0.2718)Met;0.754,0.787,0.792,0.835,0.758,0.776,0.763,0.783,(2.1606)+(-0.1454)Asn+(0.0046)Gln+(-0.0577)Tyr+(-0.0206)Val+(0.0333)Orn+(0.0978)Phe;0.754,0.786,0.672,0.661,0.600,0.776,0.775,0.703,(-1.7868)+(0.0179)Ser+(-0.0444)Val+(-0.0027)Orn+(0.1785)Ile+(-0.0439)Leu+(0.0302)Phe;0.754,0.802,0.750,0.783,0.749,0.741,0.669,0.736,(0.1463)+(0.0269)Thr+(-0.0324)Tyr+(-0.0176)Val+(-0.3330)Met+(0.0170)Orn+(0.1324)Phe;0.754,0.796,0.745,0.773,0.768,0.734,0.633,0.727,(1.0765)+(0.0346)Thr+(-0.0671)Cit+(-0.0326)Tyr+(-0.0128)Val+(-0.3369)Met+(0.1377)Phe;0.754,0.787,0.786,0.802,0.779,0.787,0.762,0.782,(1.0927)+(-0.0034)Ala+(-0.0144)Val+(-0.2522)Met+(0.0287)Orn+(-0.0028)Lys+(0.1062)Phe;0.754,0.790,0.718,0.691,0.682,0.823,0.791,0.747,(-1.3750)+(0.0286)Ser+(-0.0175)Ala+(-0.1079)Cit+(0.0070)Pro+(0.0546)Ile+(0.0220)Phe;0.754,0.795,0.743,0.745,0.778,0.827,0.605,0.739,(1.0706)+(0.0335)Ser+(0.0008)Gln+(-0.0997)Cit+(-0.0049)Tyr+(-0.2473)Met+(0.0409)Orn;0.754,0.798,0.749,0.766,0.730,0.831,0.686,0.753,(0.9358)+(0.0396)Ser+(-0.0069)Ala+(-0.0140)Arg+(0.0163)Pro+(-0.2375)Met+(-0.0004)Lys;0.754,0.784,0.753,0.747,0.754,0.801,0.733,0.759,(6.7992)+(-0.0265)Asn+(0.0038)Gly+(-0.1200)His+(-0.0082)Arg+(-0.0001)Val+(0.0081)Lys;0.754,0.800,0.707,0.680,0.670,0.801,0.790,0.735,(-0.1938)+(0.0390)Ser+(-0.0092)Gly+(0.0060)Orn+(-0.0230)Lys+(0.1410)Ile+(-0.0747)Leu;0.754,0.789,0.743,0

.731,0.705,0.815,0.797,0.762,(3.1298)+(0.0510)Ser+(-0.1824)Asn+(-0.0062)Gly+(0.0089)Pro+(-0.0469)Val+(0.0633)Leu;0.754,0.794,0.778,0.805,0.768,0.838,0.687,0.774,(1.8594)+(0.0418)Ser+(-0.0809)Asn+(-0.0025)Ala+(-0.0077)Arg+(-0.1507)Met+(0.0018)Lys;0.754,0.803,0.760,0.763,0.735,0.852,0.734,0.771,(1.1105)+(0.0389)Ser+(-0.0024)Ala+(-0.0073)Arg+(-0.0365)Val+(-0.2588)Met+(0.0706)Leu;0.754,0.796,0.762,0.769,0.732,0.810,0.772,0.770,(3.7419)+(-0.0171)Arg+(-0.0156)Tyr+(-0.1962)Met+(0.0060)Lys+(0.1740)Ile+(-0.0872)Leu;0.754,0.797,0.758,0.787,0.783,0.759,0.632,0.740,(0.5422)+(0.0013)Gly+(0.0341)Thr+(-0.0215)Arg+(-0.0171)Val+(-0.3640)Met+(0.1313)Phe;0.754,0.794,0.769,0.796,0.767,0.827,0.663,0.763,(0.8357)+(0.0371)Ser+(-0.1008)Asn+(0.0032)Gln+(0.0104)Thr+(-0.2080)Met+(-0.0023)Lys;0.754,0.794,0.766,0.754,0.780,0.844,0.709,0.772,(3.8759)+(0.0038)Gly+(-0.0108)Ala+(-0.1146)Cit+(0.0140)Pro+(-0.1706)Met+(0.0509)Orn;0.754,0.790,0.764,0.750,0.772,0.801,0.760,0.771,(6.9030)+(0.0010)Asn+(-0.1071)His+(-0.0247)Cit+(0.0084)Pro+(-0.1172)Met+(0.0094)Lys;0.754,0.790,0.761,0.747,0.743,0.823,0.791,0.776,(2.6486)+(0.0197)Thr+(-0.0078)Ala+(-0.2622)Met+(0.0060)Orn+(-0.0130)Lys+(0.0707)Ile;0.754,0.799,0.702,0.673,0.667,0.799,0.781,0.730,(0.2401)+(0.0408)Ser+(-0.0084)Gly+(-0.0016)Gln+(-0.0213)Lys+(0.1437)Ile+(-0.0747)Leu;0.754,0.796,0.753,0.774,0.732,0.839,0.682,0.757,(1.5755)+(0.0383)Ser+(-0.0062)Ala+(-0.0142)Arg+(0.0176)Pro+(-0.0061)Val+(-0.2248)Met;0.754,0.789,0.816,0.851,0.792,0.780,0.797,0.805,(0.4761)+(-0.0855)Asn+(0.0072)Gln+(-0.0273)Tyr+(-0.0151)Val+(-0.2012)Met+(0.1194)Phe;0.754,0.788,0.777,0.768,0.750,0.830,0.822,0.793,(2.7435)+(-0.0087)Asn+(0.0027)Gly+(-0.0077)Ala+(-0.2049)Met+(-0.0085)Lys+(0.0715)Ile;0.754,0.797,0.765,0.744,0.740,0.859,0.803,0.786,(1.7155)+(0.0059)Gly+(-0.0134)Ala+(-0.1056)Cit+(-0.0211)Lys+(0.0702)Ile+(0.0454)Phe;0.754,0.791,0.769,0.759,0.774,0.846,0.726,0.776,(4.4358)+(-0.0934)Asn+(0.0050)Gly+(-0.0120)Ala+(

-0.1224)Cit+(0.0108)Pro+(0.0547)Orn;0.754,0.797,0.758,0.759,0.733,0.820,0.761,0.768,(3.3999)+(0.0023)Gly+(-0.0151)Arg+(0.0006)Pro+(-0.2179)Met+(0.1711)Ile+(-0.0833)Leu;0.754,0.783,0.706,0.691,0.640,0.775,0.834,0.735,(1.8465)+(-0.0007)Gly+(-0.0033)Gln+(-0.0049)Pro+(-0.0580)Val+(0.1582)Ile+(0.0282)Phe;0.754,0.795,0.777,0.772,0.741,0.835,0.823,0.793,(2.9191)+(-0.0112)Ala+(-0.0872)Cit+(-0.0407)Tyr+(-0.0170)Lys+(0.0638)Ile+(0.0606)Phe;0.754,0.791,0.768,0.766,0.769,0.826,0.730,0.773,(6.9232)+(0.0042)Gly+(-0.1076)His+(-0.0017)Ala+(-0.0309)Cit+(-0.0781)Met+(0.0099)Lys;0.754,0.784,0.715,0.707,0.642,0.782,0.839,0.742,(0.7989)+(-0.0013)Gly+(-0.0080)Thr+(-0.0427)Val+(0.1794)Ile+(-0.0447)Leu+(0.0315)Phe;0.754,0.783,0.744,0.725,0.748,0.784,0.755,0.753,(6.8284)+(-0.1193)His+(-0.0268)Cit+(0.0054)Pro+(-0.0216)Tyr+(0.0026)Lys+(0.0117)Leu;0.754,0.802,0.778,0.794,0

.772,0.843,0.704,0.778,(2.7284)+(0.0039)Gln+(0.0335)Thr+(-0.0188)Arg+(-0.0458)Val+(-0.3418)Met+(0.0776)Leu;0.753,0.799,0.761,0.780,0.792,0.761,0.642,0.744,(1.1628)+(0.0350)Thr+(-0.0583)Cit+(-0.0115)Arg+(-0.0143)Val+(-0.3617)Met+(0.1285)Phe;0.753,0.791,0.729,0.716,0.766,0.785,0.646,0.728,(2.6261)+(-0.0370)Asn+(0.0046)Gly+(0.0244)Thr+(-0.0873)Cit+(-0.3068)Met+(0.0581)Ile;0.753,0.790,0.795,0.803,0.783,0.800,0.794,0.795,(-0.2709)+(0.0063)Gln+(-0.0089)Ala+(-0.0814)Cit+(0.0125)Pro+(-0.2864)Met+(0.0943)Phe;0.753,0.789,0.730,0.745,0.699,0.786,0.713,0.736,(3.4817)+(-0.0302)Arg+(-0.0510)Tyr+(0.0237)Orn+(-0.0007)Lys+(0.1641)Ile+(-0.0918)Leu;0.753,0.786,0.746,0.725,0.752,0.788,0.758,0.756,(6.8900)+(-0.1180)His+(-0.0284)Cit+(0.0017)Arg+(0.0052)Pro+(-0.0199)Tyr+(0.0129)Leu;0.753,0.794,0.738,0.747,0.754,0.819,0.624,0.736,(1.7693)+(0.0401)Ser+(-0.0648)Cit+(-0.0051)Arg+(0.0137)Pro+(-0.0054)Val+(-0.2615)Met;0.753,0.793,0.740,0.738,0.749,0.806,0.680,0.743,(1.3656)+(0.0481)Ser+(-0.0056)Gly+(-0.0654)Cit+(0.0122)Pro+(-0.0074)Tyr+(-0.2703)Met

;0.753,0.793,0.762,0.756,0.761,0.818,0.740,0.769,(6.8664)+(0.0016)Asn+(0.0037)Gly+(-0.1158)His+(-0.0015)Arg+(0.0042)Val+(-0.0652)Met;0.753,0.784,0.736,0.729,0.737,0.787,0.713,0.741,(6.4509)+(0.0031)Gly+(-0.1219)His+(-0.0107)Arg+(0.0070)Pro+(-0.0186)Tyr+(0.0078)Lys;0.753,0.792,0.752,0.743,0.727,0.811,0.789,0.767,(1.8387)+(0.0012)Gly+(0.0154)Thr+(-0.0101)Ala+(0.0085)Pro+(-0.2973)Met+(0.0609)Ile;0.753,0.788,0.797,0.810,0.776,0.785,0.817,0.797,(-0.1543)+(-0.0500)Asn+(0.0052)Gln+(-0.0079)Ala+(0.0112)Pro+(-0.2699)Met+(0.0877)Phe;0.753,0.787,0.781,0.807,0.766,0.754,0.765,0.773,(-0.4901)+(0.0044)Gln+(0.0105)Pro+(-0.0166)Val+(-0.3427)Met+(-0.0009)Lys+(0.1127)Phe;0.753,0.785,0.787,0.803,0.782,0.792,0.750,0.782,(1.4560)+(-0.0033)Ala+(-0.0136)Arg+(-0.0153)Val+(-0.2407)Met+(0.0322)Orn+(0.1062)Phe;0.753,0.795,0.746,0.747,0.706,0.785,0.799,0.759,(1.4065)+(-0.1260)Asn+(0.0028)Gly+(0.0043)Orn+(0.1410)Ile+(-0.0914)Leu+(0.0566)Phe;0.753,0.778,0.712,0.698,0.646,0.787,0.830,0.740,(2.5882)+(-0.0011)Gly+(-0.0023)Gln+(-0.0016)Thr+(-0.0038)Pro+(-0.0557)Val+(0.1588)Ile;0.753,0.801,0.716,0.694,0.675,0.806,0.795,0.743,(-0.0191)+(0.0389)Ser+(-0.0087)Gly+(-0.0053)Pro+(-0.0216)Lys+(0.1520)Ile+(-0.0761)Leu;0.753,0.789,0.764,0.737,0.775,0.806,0.780,0.775,(6.9188)+(0.0108)Asn+(-0.1157)His+(-0.0317)Cit+(0.0079)Arg+(-0.1047)Met+(0.0201)Leu;0.753,0.788,0.768,0.754,0.776,0.768,0.790,0.772,(1.1107)+(-0.0061)Asn+(-0.0030)Arg+(-0.3015)Met+(-0.0118)Lys+(0.0476)Ile+(0.0718)Phe;0.753,0.794,0.737,0.744,0.752,0.810,0.632,0.734,(0.5826)+(0.0386)Ser+(0.0021)Gln+(-0.0771)Cit+(0.0118)Pro+(-0.0027)Tyr+(-0.2879)Met;0.753,0.803,0.775,0.781,0.758,0.848,0.743,0.783,(2.7013)+(0.0030)Gln+(0.0305)Thr+(-0.0456)Val+(-0.3374)Met+(-0.0067)Lys+(0.0806)Leu;0.753,0.796,0.730,0.719,0.763,0.813,0.631,0.731,(1.8145)+(0.0391)Ser+(-0.1561)Asn+(-0.0977)Cit+(-0.0072)Arg+(0.0017)Pro+(0.0405)Orn;0.753,0.793,0.754,0.756,0.774,0.831,0.654,0.754,(1.7104)+(0.0350)Ser+(-0.1704

)Asn+(0.0031)Gln+(-0.1052)Cit+(0.0434)Orn+(-0.0086)Leu;0.753,0.793,0.762,0.768,0.780,0.826,0.664,0.759,(2.1987)+(0.0412)Ser+(-0.0061)Gly+(0.0143)Thr+(-0.0633)Cit+(-0.2558)Met+(-0.0046)Lys;0.753,0.791,0.692,0.709,0.634,0.771,0.710,0.706,(0.1171)+(0.0176)Ser+(-0.0025)Pro+(-0.0571)Tyr+(0.0033)Orn+(0.1562)Ile+(-0.0831)Leu;0.753,0.782,0.737,0.725,0.742,0.793,0.716,0.744,(6.2240)+(0.0035)Gly+(-0.1250)His+(-0.0111)Arg+(0.0057)Pro+(-0.0013)Val+(0.0062)Lys;0.753,0.785,0.683,0.669,0.611,0.789,0.796,0.716,(-1.4633)+(0.0171)Ser+(-0.0075)Pro+(-0.0573)Val+(0.0042)Orn+(0.1534)Ile+(0.0230)Phe;0.753,0.784,0.696,0.679,0.628,0.803,0.804,0.729,(-0.6506)+(0.0249)Ser+(-0.0169)Thr+(-0.0047)Pro+(-0.0528)Val+(0.0127)Orn+(0.1508)Ile;0.753,0.788,0.777,0.767,0.770,0.822,0.784,0.786,(7.3373)+(0.0062)Asn+(-0.1121)His+(-0.0020)Ala+(-0.0001)Arg+(0.0043)Val+(-0.0516)Met;0.753,0.791,0.793,0.791,0.780,0.853,0.781,0.801,(4.2884)+(-0.1647)Asn+(0.0060)Gln+(-0.0927)Cit+(-0.0423)Val+(0.0584)Orn+(0.0528)Leu;0.753,0.786,0.773,0.783,0.775,0.775,0.737,0.768,(1.3528)+(-0.0483)Asn+(0.0286)Thr+(-0.0053)Ala+(-0.2888)Met+(-0.0086)Lys+(0.1012)Phe;0.753,0.793,0.731,0.735,0.755,0.811,0.616,0.729,(1.3351)+(0.0415)Ser+(-0.0708)Cit+(-0.0030)Arg+(0.0121)Pro+(-0.2671)Met+(-0.0027)Lys;0.753,0.795,0.749,0.752,0.705,0.787,0.803,0.762,(1.3944)+(-0.1199)Asn+(0.0032)Gly+(-0.0023)Thr+(0.1439)Ile+(-0.0920)Leu+(0.0580)Phe;0.753,0.803,0.757,0.757,0.729,0.853,0.747,0.771,(1.0054)+(0.0389)Ser+(-0.0025)Ala+(-0.0365)Val+(-0.2599)Met+(-0.0038)Lys+(0.0728)Leu;0.753,0.793,0.769,0.763,0.766,0.825,0.752,0.776,(6.5174)+(0.0037)Gly+(-0.1158)His+(-0.0016)Ala+(0.0096)Tyr+(-0.0976)Met+(0.0099)Lys;0.753,0.796,0.793,0.817,0.772,0.852,0.729,0.793,(0.8248)+(0.0389)Ser+(-0.0974)Asn+(0.0035)Gln+(-0.0026)Ala+(0.0026)Tyr+(-0.1672)Met;0.753,0.794,0.737,0.745,0.752,0.819,0.627,0.736,(1.6527)+(0.0396)Ser+(-0.0689)Cit+(0.0135)Pro+(0.0006)Tyr+(-0.0053)Val+(-0.2695)Met;0.753,0.789,0.766,0.751

,0.773,0.810,0.758,0.773,(7.2383)+(0.0070)Asn+(-0.1030)His+(-0.0257)C
it+(0.0080)Pro+(0.0014)Val+(-0.0907)Met;0.753,0.793,0.762,0.752,0.775
,0.826,0.714,0.767,(6.8764)+(0.0052)Gly+(-0.1114)His+(-0.0353)Cit+(0.
0092)Tyr+(0.0050)Val+(-0.0805)Met;0.753,0.803,0.750,0.745,0.732,0.841
,0.732,0.763,(0.2504)+(0.0397)Ser+(0.0004)Gln+(0.0208)Tyr+(-0.0415)Va
l+(-0.3290)Met+(0.0755)Leu;0.753,0.786,0.741,0.733,0.746,0.803,0.707,
0.748,(6.7129)+(0.0038)Gly+(-0.1116)His+(-0.0310)Cit+(-0.0017)Arg+(0.
0071)Pro+(-0.0120)Tyr;0.753,0.798,0.759,0.774,0.792,0.764,0.649,0.745
,(1.2212)+(0.0339)Thr+(-0.0683)Cit+(-0.0124)Val+(-0.3538)Met+(-0.0062
)Lys+(0.1277)Phe;0.753,0.795,0.747,0.767,0.765,0.807,0.615,0.739,(1.2
204)+(0.0412)Ser+(-0.0802)Asn+(0.0136)Thr+(-0.0114)Arg+(-0.2323)Met+(
0.0081)Leu;0.753,0.789,0.816,0.832,0.804,0.809,0.803,0.812,(-0.0381)+
(-0.0643)Asn+(0.0086)Gln+(-0.0056)Ala+(-0.0821)Cit+(-0.2172)Met+(0.09
69)Phe;0.753,0.789,0.734,0.755,0.698,0.787,0.716,0.739,(3.5711)+(0.00
58)Thr+(-0.0291)Arg+(-0.0012)Pro+(-0.0497)Tyr+(0.1674)Ile+(-0.0899)Le
u;0.753,0.795,0.762,0.751,0.764,0.821,0.742,0.770,(6.7002)+(0.0021)As
n+(0.0039)Gly+(-0.1170)His+(0.0077)Tyr+(0.0039)Val+(-0.0801)Met;0.753
,0.791,0.774,0.772,0.774,0.834,0.737,0.779,(7.3379)+(0.0040)Gly+(-0.1
012)His+(-0.0015)Ala+(-0.0345)Cit+(0.0035)Arg+(-0.0462)Met;0.753,0.79
9,0.742,0.753,0.724,0.825,0.694,0.749,(0.4565)+(0.0408)Ser+(-0.0073)A
la+(-0.0137)Arg+(0.0155)Pro+(-0.2546)Met+(0.0078)Leu;0.753,0.795,0.76
1,0.755,0.730,0.814,0.803,0.775,(1.0681)+(0.0026)Gln+(0.0144)Thr+(-0.
0099)Ala+(0.0081)Pro+(-0.3081)Met+(0.0597)Ile;0.753,0.791,0.759,0.738
,0.788,0.752,0.762,0.760,(1.2916)+(-0.0141)Asn+(-0.0678)Cit+(0.0026)P
ro+(-0.3057)Met+(0.0406)Ile+(0.0717)Phe;0.753,0.788,0.759,0.747,0.739
,0.823,0.786,0.774,(2.5296)+(0.0010)Gly+(0.0202)Thr+(-0.0078)Ala+(-0.
2670)Met+(-0.0123)Lys+(0.0730)Ile;0.753,0.798,0.781,0.798,0.763,0.838
,0.731,0.782,(0.3419)+(0.0410)Ser+(-0.0929)Asn+(0.0031)Gln+(-0.0033)A

la+(-0.1858)Met+(0.0099)Leu;0.753,0.795,0.766,0.768,0.740,0.816,0.779,0.776,(3.5940)+(-0.0044)Asn+(-0.0163)Arg+(-0.2179)Met+(0.0052)Lys+(0.1723)Ile+(-0.0868)Leu;0.753,0.794,0.753,0.762,0.743,0.763,0.746,0.753,(-0.0031)+(0.0211)Thr+(-0.0088)Ala+(0.0119)Pro+(-0.3605)Met+(0.0016)Orn+(0.0969)Phe;0.753,0.793,0.749,0.767,0.741,0.815,0.669,0.748,(2.1878)+(0.0423)Ser+(-0.0959)Asn+(0.0132)Pro+(-0.0111)Val+(-0.1988)Met+(0.0043)Lys;0.753,0.781,0.776,0.762,0.774,0.818,0.782,0.784,(7.4658)+(-0.0155)Asn+(-0.1101)His+(-0.0033)Ala+(-0.0294)Cit+(0.0027)Val+(0.0058)Lys;0.753,0.796,0.744,0.755,0.728,0.815,0.696,0.749,(1.1796)+(0.0452)Ser+(-0.0082)Gly+(0.0088)Thr+(0.0128)Pro+(-0.0088)Val+(-0.2992)Met;0.753,0.794,0.780,0.802,0.767,0.846,0.704,0.780,(1.6552)+(0.0417)Ser+(-0.0844)Asn+(-0.0026)Ala+(0.0041)Tyr+(-0.1612)Met+(0.0004)Lys;0.753,0.797,0.773,0.783,0.716,0.863,0.800,0.790,(2.3459)+(0.0385)Ser+(-0.1789)Asn+(0.0029)Gln+(-0.0037)Ala+(-0.0426)Val+(0.0685)Leu;0.753,0.793,0.746,0.744,0.770,0.820,0.651,0.746,(1.1875)+(0.0367)Ser+(-0.1689)Asn+(0.0034)Gln+(-0.1004)Cit+(-0.0086)Arg+(0.0391)Orn;0.753,0.792,0.756,0.745,0.730,0.811,0.798,0.771,(2.0261)+(0.0167)Thr+(-0.0100)Ala+(0.0085)Pro+(-0.2968)Met+(-0.0020)Orn+(0.0608)Ile;0.753,0.786,0.775,0.794,0.778,0.779,0.714,0.766,(1.0244)+(0.0017)Gly+(-0.0142)Arg+(-0.0168)Val+(-0.2689)Met+(0.0303)Orn+(0.1091)Phe;0.753,0.795,0.732,0.716,0.760,0.806,0.665,0.737,(1.7739)+(0.0419)Ser+(-0.1612)Asn+(-0.0025)Gly+(-0.0988)Cit+(0.0011)Pro+(0.0396)Orn;0.753,0.796,0.792,0.818,0.771,0.851,0.726,0.791,(0.9037)+(0.0386)Ser+(-0.0975)Asn+(0.0035)Gln+(-0.0025)Ala+(-0.1608)Met+(-0.0005)Lys;0.753,0.784,0.754,0.751,0.754,0.801,0.731,0.759,(6.9508)+(-0.0253)Asn+(0.0035)Gly+(-0.1181)His+(-0.0081)Arg+(-0.0080)Tyr+(0.0091)Lys;0.753,0.777,0.711,0.701,0.645,0.783,0.820,0.737,(2.4125)+(-0.0010)Gly+(-0.0016)Gln+(-0.0047)Thr+(-0.0443)Val+(0.1788)Ile+(-0.0354)Leu;0.753,0.795,0.741,0.761,0.721,0.749,0.722,0.738,(0

.2002)+(0.0250)Thr+(-0.0081)Ala+(0.0129)Pro+(-0.0353)Tyr+(-0.3362)Met+(0.1089)Phe;0.753,0.794,0.769,0.796,0.765,0.824,0.663,0.762,(0.8152)+(0.0370)Ser+(-0.1031)Asn+(0.0032)Gln+(0.0101)Thr+(-0.0033)Tyr+(-0.2085)Met;0.753,0.791,0.769,0.755,0.736,0.835,0.828,0.788,(4.2530)+(-0.0130)Ala+(-0.0862)Cit+(0.0096)Pro+(-0.0292)Tyr+(-0.0133)Lys+(0.0655)Ile;0.753,0.786,0.776,0.793,0.775,0.777,0.733,0.769,(0.6967)+(0.0013)Gly+(-0.0161)Val+(-0.2811)Met+(0.0268)Orn+(-0.0027)Lys+(0.1088)Phe;0.753,0.792,0.749,0.721,0.785,0.769,0.734,0.752,(0.9241)+(-0.0869)Cit+(0.0017)Pro+(-0.3162)Met+(0.0246)Orn+(0.0364)Ile+(0.0654)Phe;0.753,0.784,0.772,0.766,0.763,0.812,0.779,0.780,(7.4435)+(-0.0172)Asn+(-0.1133)His+(-0.0022)Ala+(-0.0063)Arg+(-0.0070)Tyr+(0.0091)Lys;0.753,0.800,0.745,0.762,0.717,0.844,0.689,0.753,(1.0368)+(0.0340)Ser+(-0.0066)Ala+(0.0164)Pro+(-0.0081)Val+(-0.2489)Met+(0.0188)Orn;0.753,0.786,0.741,0.727,0.739,0.780,0.757,0.751,(6.7209)+(-0.1241)His+(-0.0059)Arg+(0.0056)Pro+(-0.0225)Tyr+(0.0048)Lys+(0.0098)Leu;0.753,0.797,0.728,0.708,0.764,0.756,0.684,0.728,(-0.3437)+(0.0073)Gly+(-0.0896)Cit+(0.0043)Arg+(-0.3518)Met+(0.0500)Ile+(0.0841)Phe;0.753,0.793,0.763,0.758,0.741,0.831,0.771,0.775,(4.2898)+(-0.0799)Asn+(0.0062)Thr+(-0.0672)Cit+(-0.0099)Arg+(0.1505)Ile+(-0.0829)Leu;0.753,0.790,0.763,0.758,0.771,0.815,0.720,0.766,(6.9352)+(-0.0135)Asn+(0.0045)Gly+(-0.1082)His+(-0.0299)Cit+(-0.0797)Met+(0.0100)Lys;0.753,0.786,0.751,0.728,0.755,0.793,0.773,0.762,(6.6769)+(-0.0173)Asn+(-0.1250)His+(-0.0046)Arg+(0.0039)Pro+(0.0032)Lys+(0.0084)Leu;0.753,0.795,0.743,0.723,0.773,0.799,0.695,0.748,(3.6186)+(-0.0185)Asn+(0.0284)Thr+(-0.0800)Cit+(-0.2853)Met+(-0.0123)Lys+(0.0623)Ile;0.753,0.788,0.763,0.786,0.771,0.772,0.676,0.751,(3.5060)+(-0.0990)Asn+(-0.1000)Cit+(-0.0640)Tyr+(0.0564)Orn+(-0.0214)Leu+(0.0927)Phe;0.753,0.791,0.778,0.778,0.756,0.787,0.819,0.785,(1.0454)+(-0.0077)Ala+(-0.0074)Arg+(-0.0

172)Tyr+(-0.2526)Met+(0.0536)Ile+(0.0727)Phe;0.752,0.794,0.738,0.753,0.715,0.826,0.683,0.744,(0.5056)+(0.0363)Ser+(0.0046)Thr+(-0.0071)Ala+(0.0155)Pro+(-0.0013)Tyr+(-0.2717)Met;0.752,0.792,0.762,0.739,0.768,0.803,0.784,0.773,(6.7455)+(0.0139)Asn+(-0.1215)His+(0.0022)Arg+(0.0020)Tyr+(-0.1061)Met+(0.0192)Leu;0.752,0.784,0.696,0.675,0.635,0.775,0.819,0.726,(1.7933)+(-0.0042)Gln+(-0.0058)Pro+(-0.0590)Val+(0.0171)Orn+(0.1580)Ile+(0.0260)Phe;0.752,0.797,0.745,0.747,0.725,0.770,0.761,0.751,(-0.1863)+(0.0249)Thr+(-0.0078)Ala+(-0.0274)Tyr+(-0.3438)Met+(0.0527)Ile+(0.0839)Phe;0.752,0.796,0.743,0.758,0.753,0.809,0.638,0.739,(0.7632)+(0.0415)Ser+(-0.0929)Asn+(0.0075)Thr+(-0.2263)Met+(0.0149)Orn+(0.0053)Leu;0.752,0.794,0.764,0.766,0.722,0.816,0.812,0.779,(-0.3247)+(0.0506)Ser+(-0.1632)Asn+(-0.0047)Gly+(-0.0029)Thr+(-0.0078)Ala+(0.0651)Phe;0.752,0.792,0.768,0.774,0.731,0.801,0.807,0.778,(2.3521)+(-0.0818)Asn+(-0.0236)Arg+(-0.0048)Pro+(0.1606)Ile+(-0.0989)Leu+(0.0627)Phe;0.752,0.791,0.775,0.800,0.758,0.860,0.684,0.776,(3.1018)+(0.0355)Ser+(-0.1319)Asn+(-0.0036)Ala+(-0.0162)Arg+(-0.0119)Val+(0.0351)Orn;0.752,0.799,0.751,0.784,0.756,0.737,0.659,0.734,(0.5524)+(0.0321)Thr+(-0.0315)Tyr+(-0.0150)Val+(-0.3310)Met+(-0.0053)Lys+(0.1368)Phe;0.752,0.794,0.738,0.752,0.716,0.826,0.683,0.744,(0.5003)+(0.0365)Ser+(-0.0001)Gln+(0.0046)Thr+(-0.0071)Ala+(0.0155)Pro+(-0.2732)Met;0.752,0.790,0.778,0.766,0.773,0.824,0.787,0.788,(7.2728)+(0.0071)Asn+(-0.1125)His+(-0.0021)Ala+(0.0050)Tyr+(0.0041)Val+(-0.0596)Met;0.752,0.779,0.699,0.682,0.638,0.781,0.809,0.728,(2.4290)+(-0.0019)Gly+(-0.0029)Gln+(-0.0477)Val+(0.0153)Orn+(0.1757)Ile+(-0.0314)Leu;0.752,0.795,0.767,0.768,0.769,0.761,0.765,0.766,(-1.3309)+(0.0069)Gln+(-0.0845)Cit+(-0.0279)Tyr+(-0.3277)Met+(0.0462)Ile+(0.0863)Phe;0.752,0.792,0.759,0.768,0.779,0.820,0.652,0.755,(2.0876)+(0.0416)Ser+(-0.0062)Gly+(0.0150)Thr+(-0.0583)Cit+(-0.0082)Arg+(-0.2682)Met;0.752,0.788,0.759,0.753,0.725,0.

809,0.811,0.774,(2.2692)+(0.0022)Gly+(-0.0100)Ala+(0.0095)Pro+(-0.007
3)Tyr+(-0.2385)Met+(0.0608)Ile;0.752,0.786,0.786,0.804,0.768,0.774,0.
784,0.782,(1.7874)+(-0.0061)Ala+(-0.0067)Arg+(0.0144)Pro+(-0.0138)Val
+(-0.2694)Met+(0.1097)Phe;0.752,0.795,0.723,0.727,0.695,0.776,0.732,0
.732,(1.0189)+(0.0508)Ser+(-0.1197)Asn+(-0.0063)Gly+(-0.0153)Arg+(-0.
0496)Tyr+(0.0423)Ile;0.752,0.797,0.749,0.765,0.730,0.831,0.686,0.753,
(0.9211)+(0.0395)Ser+(-0.0069)Ala+(-0.0142)Arg+(0.0163)Pro+(-0.0003)T
yr+(-0.2384)Met;0.752,0.783,0.753,0.744,0.754,0.787,0.750,0.759,(7.22
70)+(-0.0231)Asn+(-0.1090)His+(-0.0252)Cit+(0.0071)Pro+(-0.0200)Tyr+(
0.0068)Lys;0.752,0.795,0.771,0.798,0.774,0.759,0.699,0.758,(-0.8412)+
(0.0035)Gln+(0.0272)Thr+(-0.0155)Val+(-0.3792)Met+(-0.0057)Lys+(0.125
5)Phe;0.752,0.791,0.745,0.761,0.776,0.831,0.579,0.737,(2.0734)+(0.032
9)Ser+(0.0136)Thr+(-0.0700)Cit+(-0.0007)Val+(-0.2527)Met+(-0.0039)Lys
;0.752,0.793,0.778,0.777,0.753,0.790,0.825,0.786,(1.1563)+(-0.0194)As
n+(-0.0076)Ala+(-0.0197)Tyr+(-0.2403)Met+(0.0522)Ile+(0.0726)Phe;0.75
2,0.797,0.726,0.728,0.765,0.808,0.581,0.720,(1.3044)+(0.0370)Ser+(0.0
159)Thr+(-0.0760)Cit+(-0.2881)Met+(-0.0096)Lys+(0.0177)Leu;0.752,0.79
5,0.762,0.775,0.716,0.815,0.786,0.773,(-0.9992)+(0.0437)Ser+(-0.1720)
Asn+(0.0015)Gln+(-0.0039)Thr+(-0.0078)Ala+(0.0669)Phe;0.752,0.786,0.7
15,0.735,0.662,0.764,0.740,0.725,(2.0547)+(-0.0002)Gln+(-0.0027)Pro+(
-0.0570)Tyr+(0.0111)Orn+(0.1575)Ile+(-0.0863)Leu;0.752,0.784,0.750,0.
744,0.746,0.785,0.750,0.756,(7.1151)+(-0.0195)Asn+(-0.1149)His+(-0.00
74)Arg+(0.0070)Pro+(-0.0212)Tyr+(0.0086)Lys;0.752,0.789,0.771,0.784,0
.760,0.773,0.758,0.769,(0.6520)+(0.0035)Gly+(-0.0084)Ala+(-0.0098)Arg
+(0.0131)Pro+(-0.2843)Met+(0.0947)Phe;0.752,0.786,0.784,0.786,0.790,0
.856,0.714,0.786,(5.5167)+(-0.0949)Asn+(0.0033)Gly+(-0.0065)Ala+(-0.1
114)Cit+(-0.0093)Val+(0.0652)Orn;0.752,0.783,0.747,0.742,0.743,0.786,
0.741,0.753,(6.9126)+(-0.1172)His+(-0.0094)Arg+(0.0073)Pro+(-0.0209)T

yr+(-0.0014)Val+(0.0084)Lys;0.752,0.793,0.761,0.736,0.740,0.850,0.809,0.784,(3.0157)+(0.0052)Gly+(-0.0146)Ala+(-0.1028)Cit+(0.0083)Pro+(-0.0175)Lys+(0.0704)Ile;0.752,0.786,0.785,0.803,0.761,0.771,0.794,0.782,(-0.5379)+(0.0039)Gln+(-0.0078)Ala+(0.0128)Pro+(-0.3065)Met+(-0.0086)Leu+(0.0971)Phe;0.752,0.784,0.771,0.797,0.766,0.768,0.716,0.762,(1.5092)+(-0.0136)Arg+(-0.0257)Tyr+(-0.0164)Val+(-0.2289)Met+(0.0333)Orn+(0.1126)Phe;0.752,0.793,0.760,0.749,0.737,0.813,0.798,0.774,(2.4436)+(-0.0244)Asn+(0.0176)Thr+(-0.0098)Ala+(0.0082)Pro+(-0.2736)Met+(0.0579)Ile;0.752,0.791,0.730,0.740,0.711,0.813,0.679,0.736,(-0.4631)+(0.0256)Ser+(-0.0105)Ala+(-0.1219)Cit+(-0.0591)Tyr+(0.0456)Orn+(0.0724)Phe;0.752,0.780,0.700,0.682,0.636,0.771,0.830,0.730,(1.9524)+(-0.0006)Gly+(-0.0033)Gln+(-0.0029)Thr+(-0.0575)Val+(0.1526)Ile+(0.0257)Phe;0.752,0.796,0.769,0.757,0.787,0.843,0.711,0.774,(4.1746)+(0.0155)Thr+(-0.0105)Ala+(-0.1119)Cit+(0.0134)Pro+(-0.2165)Met+(0.0452)Orn;0.752,0.794,0.820,0.845,0.809,0.799,0.789,0.811,(0.1969)+(-0.0824)Asn+(0.0090)Gln+(-0.0685)Cit+(-0.0133)Val+(-0.2288)Met+(0.1155)Phe;0.752,0.794,0.746,0.734,0.796,0.790,0.641,0.740,(1.0425)+(0.0049)Gly+(-0.1015)Cit+(-0.2570)Met+(0.0435)Orn+(-0.0124)Lys+(0.0924)Phe;0.752,0.793,0.732,0.740,0.707,0.814,0.703,0.741,(0.0073)+(0.0396)Ser+(-0.0002)Gln+(-0.0075)Ala+(0.0151)Pro+(-0.2750)Met+(0.0086)Leu;0.752,0.789,0.701,0.683,0.689,0.821,0.689,0.720,(-0.3447)+(0.0194)Ser+(-0.1139)Cit+(-0.0085)Pro+(0.0286)Orn+(0.1658)Ile+(-0.0916)Leu;0.752,0.787,0.823,0.852,0.811,0.794,0.795,0.813,(0.2777)+(-0.0747)Asn+(0.0077)Gln+(-0.0111)Arg+(-0.0153)Val+(-0.2361)Met+(0.1124)Phe;0.752,0.791,0.768,0.775,0.722,0.813,0.817,0.782,(-0.6446)+(0.0483)Ser+(-0.1756)Asn+(-0.0051)Gly+(0.0019)Gln+(-0.0081)Ala+(0.0625)Phe;0.752,0.794,0.790,0.791,0.792,0.776,0.790,0.787,(-1.1526)+(-0.0380)Asn+(0.0067)Gln+(-0.0156)Arg+(-0.3291)Met+(0.0384)Ile+(0.0709)Phe;0.752,0.788,0.733,0.754,0.696,0.787,0.714,0.738

,(3.5630)+(0.0056)Thr+(-0.0292)Arg+(-0.0506)Tyr+(0.0001)Lys+(0.1656)Ile+(-0.0896)Leu;0.752,0.802,0.721,0.715,0.686,0.792,0.761,0.738,(1.0771)+(0.0522)Ser+(-0.1091)Asn+(-0.0069)Gly+(-0.0434)Tyr+(-0.0147)Lys+(0.0499)Ile;0.752,0.791,0.765,0.751,0.772,0.802,0.760,0.771,(6.9302)+(-0.1060)His+(-0.0243)Cit+(0.0087)Pro+(-0.0010)Val+(-0.1167)Met+(0.0098)Lys;0.752,0.786,0.752,0.745,0.727,0.819,0.772,0.766,(1.9294)+(-0.0130)Ala+(-0.1196)Cit+(-0.0515)Tyr+(0.0415)Orn+(0.0449)Ile+(0.0429)Phe;0.752,0.797,0.739,0.743,0.691,0.814,0.777,0.756,(-0.6476)+(0.0432)Ser+(-0.1748)Asn+(-0.0109)Ala+(0.0092)Pro+(0.0070)Orn+(0.0604)Phe;0.752,0.794,0.736,0.711,0.696,0.833,0.815,0.764,(-0.6645)+(0.0368)Ser+(-0.0018)Gly+(-0.0121)Thr+(-0.0140)Ala+(-0.0919)Cit+(0.0669)Ile;0.752,0.789,0.786,0.781,0.782,0.857,0.757,0.794,(5.9892)+(-0.0927)Asn+(-0.0092)Ala+(-0.1060)Cit+(0.0119)Pro+(-0.0120)Val+(0.0618)Orn;0.752,0.786,0.756,0.748,0.753,0.796,0.758,0.764,(7.2819)+(-0.0134)Asn+(-0.1096)His+(-0.0031)Arg+(0.0071)Pro+(-0.0146)Tyr+(-0.0001)Val;0.752,0.796,0.786,0.795,0.772,0.817,0.768,0.788,(0.2263)+(0.0508)Ser+(-0.0939)Asn+(-0.0069)Gly+(0.0038)Gln+(-0.2106)Met+(0.0061)Leu;0.752,0.795,0.789,0.770,0.773,0.834,0.839,0.804,(3.4605)+(-0.0098)Ala+(-0.0845)Cit+(0.0102)Arg+(-0.0018)Tyr+(-0.1941)Met+(0.0735)Ile;0.752,0.794,0.757,0.782,0.770,0.751,0.672,0.744,(0.2037)+(0.0008)Gly+(0.0288)Thr+(-0.0158)Val+(-0.3644)Met+(-0.0045)Lys+(0.1270)Phe;0.752,0.793,0.724,0.722,0.750,0.797,0.621,0.723,(0.7558)+(0.0428)Ser+(-0.0724)Cit+(-0.0034)Arg+(0.0111)Pro+(-0.2934)Met+(0.0070)Leu;0.752,0.793,0.746,0.766,0.749,0.785,0.658,0.740,(-0.3329)+(0.0447)Ser+(-0.1700)Asn+(-0.0237)Arg+(0.0179)Orn+(-0.0222)Leu+(0.0775)Phe;0.752,0.787,0.776,0.784,0.781,0.838,0.702,0.776,(5.6796)+(-0.0925)Asn+(0.0126)Thr+(-0.0077)Ala+(-0.1134)Cit+(-0.0335)Tyr+(0.0575)Orn;0.752,0.785,0.799,0.810,0.786,0.798,0.796,0.797,(-0.3573)+(0.0043)Gln+(-0.0053)Ala+(-0.2706)Met+(0.0175)Orn+(-0.0101)Lys+

(0.0900)Phe;0.752,0.788,0.772,0.773,0.792,0.794,0.710,0.767,(1.6225)+(-0.0827)Cit+(-0.0025)Arg+(-0.0156)Val+(-0.2516)Met+(0.0480)Orn+(0.1031)Phe;0.752,0.786,0.737,0.721,0.750,0.802,0.706,0.745,(6.3961)+(0.0044)Gly+(-0.1186)His+(-0.0324)Cit+(-0.0024)Arg+(0.0056)Pro+(0.0014)Val;0.752,0.791,0.768,0.776,0.764,0.805,0.730,0.769,(2.6922)+(-0.1188)Asn+(0.0061)Gln+(-0.1078)Cit+(-0.0550)Tyr+(0.0402)Orn+(0.0288)Ile;0.752,0.785,0.737,0.756,0.676,0.776,0.782,0.748,(2.3811)+(-0.0038)Gly+(0.0014)Gln+(-0.0019)Pro+(-0.0578)Tyr+(0.1587)Ile+(-0.0865)Leu;0.752,0.783,0.744,0.733,0.726,0.830,0.746,0.759,(2.5119)+(0.0027)Gly+(-0.0131)Ala+(-0.1246)Cit+(-0.0372)Tyr+(0.0434)Orn+(0.0539)Ile;0.752,0.789,0.731,0.741,0.685,0.771,0.774,0.743,(3.2542)+(-0.0034)Gly+(-0.0558)Tyr+(0.0186)Orn+(-0.0091)Lys+(0.1503)Ile+(-0.0809)Leu;0.752,0.785,0.779,0.767,0.782,0.825,0.775,0.787,(7.6244)+(0.0071)Asn+(-0.1062)His+(-0.0026)Ala+(-0.0297)Cit+(0.0053)Val+(-0.0466)Met;0.752,0.786,0.785,0.789,0.774,0.779,0.799,0.785,(1.7703)+(-0.0254)Asn+(-0.0081)Ala+(0.0125)Pro+(-0.2448)Met+(-0.0048)Lys+(0.0901)Phe;0.752,0.794,0.715,0.701,0.667,0.827,0.774,0.742,(-1.6997)+(0.0382)Ser+(-0.0116)Ala+(-0.0196)Arg+(-0.0241)Lys+(0.0599)Ile+(0.0364)Phe;0.752,0.786,0.764,0.752,0.769,0.836,0.733,0.773,(5.8302)+(-0.1605)Asn+(0.0146)Thr+(-0.0877)Cit+(-0.0455)Val+(0.0590)Orn+(0.0577)Leu;0.752,0.784,0.761,0.756,0.766,0.817,0.726,0.766,(7.2447)+(-0.0233)Asn+(0.0043)Gly+(-0.1071)His+(-0.0332)Cit+(0.0018)Arg+(-0.0001)Tyr;0.752,0.793,0.732,0.744,0.743,0.801,0.629,0.729,(0.8977)+(0.0448)Ser+(-0.0781)Asn+(-0.0129)Arg+(0.0089)Pro+(-0.2206)Met+(0.0173)Orn;0.752,0.793,0.763,0.755,0.761,0.804,0.759,0.770,(7.1478)+(-0.1058)His+(-0.0007)Arg+(0.0082)Pro+(-0.0035)Tyr+(0.0006)Val+(-0.0817)Met;0.752,0.793,0.768,0.778,0.789,0.777,0.692,0.759,(1.0857)+(0.0310)Thr+(-0.0064)Ala+(-0.0825)Cit+(-0.3337)Met+(-0.0002)Leu+(0.1068)Phe;0.752,0.792,0.765,0.775,0.747,0.842,0.723,0.772,(0.6007)+(0.042

4)Ser+(-0.0076)Gly+(0.0065)Thr+(-0.0033)Ala+(-0.2587)Met+(0.0183)Orn;
0.752,0.792,0.774,0.794,0.761,0.845,0.698,0.775,(3.3525)+(0.0379)Ser+
(-0.1133)Asn+(-0.0047)Ala+(-0
.0679)Cit+(0.0004)Arg+(-0.0131)Tyr;0.752,0.792,0.739,0.733,0.759,0.82
1,0.654,0.742,(2.6361)+(0.0367)Ser+(-0.0078)Gly+(-0.1067)Cit+(-0.0468
)Tyr+(0.0573)Orn+(-0.0205)Lys;0.752,0.788,0.776,0.765,0.771,0.816,0.7
85,0.784,(7.0647)+(-0.0011)Asn+(-0.1147)His+(-0.0019)Ala+(0.0024)Val+
(-0.0746)Met+(0.0091)Lys;0.752,0.785,0.818,0.848,0.800,0.779,0.806,0.
808,(0.1929)+(-0.0839)Asn+(0.0068)Gln+(-0.0164)Val+(-0.2438)Met+(0.00
22)Lys+(0.1120)Phe;0.752,0.792,0.734,0.743,0.737,0.796,0.660,0.734,(0
.7129)+(0.0485)Ser+(-0.0077)Gly+(0.0116)Thr+(-0.0178)Arg+(0.0106)Pro+
(-0.3110)Met;0.752,0.790,0.791,0.776,0.780,0.833,0.827,0.804,(3.8575)
+(-0.0054)Asn+(-0.0092)Ala+(-0.0745)Cit+(-0.0021)Tyr+(-0.1764)Met+(0.
0710)Ile;0.752,0.788,0.799,0.820,0.792,0.850,0.719,0.795,(4.5365)+(-0
.1246)Asn+(0.0062)Gln+(-0.1026)Cit+(-0.0331)Tyr+(-0.0124)Val+(0.0601)
Orn;0.752,0.786,0.751,0.718,0.785,0.810,0.726,0.760,(3.5805)+(-0.0943
)Cit+(0.0002)Pro+(-0.2112)Met+(0.0402)Orn+(-0.0144)Lys+(0.0507)Ile;0.
752,0.783,0.747,0.741,0.746,0.797,0.726,0.753,(6.6512)+(0.0031)Gly+(-
0.1243)His+(-0.0091)Arg+(-0.0102)Tyr+(0.0015)Val+(0.0074)Lys;0.752,0.
800,0.774,0.780,0.764,0.845,0.725,0.779,(4.0445)+(0.0351)Thr+(-0.0029
)Ala+(-0.0137)Arg+(-0.0450)Val+(-0.3099)Met+(0.0802)Leu;0.752,0.798,0
.724,0.719,0.751,0.802,0.624,0.724,(0.9195)+(0.0434)Ser+(-0.0748)Cit+
(0.0107)Pro+(-0.2782)Met+(-0.0061)Lys+(0.0102)Leu;0.752,0.792,0.776,0
.795,0.765,0.849,0.697,0.777,(3.4715)+(0.0382)Ser+(-0.1074)Asn+(-0.00
45)Ala+(-0.0672)Cit+(-0.0107)Tyr+(-0.0033)Lys;0.752,0.792,0.754,0.762
,0.712,0.815,0.774,0.766,(-0.8192)+(0.0420)Ser+(-0.1779)Asn+(0.0009)G
ln+(-0.0084)Ala+(0.0107)Orn+(0.0625)Phe;0.752,0.784,0.777,0.763,0.776
,0.825,0.784,0.787,(7.5517)+(-0.0090)Asn+(-0.1080)His+(-0.0033)Ala+(-

0.0339)Cit+(0.0040)Arg+(0.0045)Val;0.752,0.784,0.781,0.800,0.758,0.767,0.788,0.778,(1.3993)+(-0.0062)Ala+(0.0146)Pro+(-0.0146)Val+(-0.2846)Met+(0.0018)Lys+(0.1096)Phe;0.752,0.798,0.766,0.773,0.763,0.834,0.703,0.768,(4.0473)+(-0.0008)Gly+(0.0357)Thr+(-0.0145)Arg+(-0.0463)Val+(-0.3272)Met+(0.0794)Leu;0.752,0.785,0.773,0.790,0.770,0.775,0.737,0.768,(-0.7552)+(0.0038)Gln+(0.0246)Thr+(-0.0052)Ala+(-0.3454)Met+(-0.0114)Lys+(0.1041)Phe;0.752,0.788,0.782,0.762,0.756,0.833,0.852,0.801,(3.0193)+(-0.0778)Asn+(-0.0139)Ala+(-0.0858)Cit+(0.0073)Pro+(0.0451)Ile+(0.0357)Phe;0.752,0.796,0.746,0.741,0.795,0.760,0.647,0.736,(1.4266)+(-0.0554)Asn+(0.0277)Thr+(-0.0974)Cit+(-0.3246)Met+(0.0285)Orn+(0.0897)Phe;0.752,0.794,0.748,0.766,0.719,0.835,0.699,0.755,(1.0766)+(0.0366)Ser+(-0.0065)Ala+(0.0172)Pro+(0.0031)Tyr+(-0.0062)Val+(-0.2496)Met;0.752,0.792,0.765,0.768,0.769,0.763,0.750,0.762,(-1.7337)+(0.0025)Gly+(0.0051)Gln+(-0.0174)Arg+(-0.3686)Met+(0.0430)Ile+(0.0744)Phe;0.752,0.790,0.742,0.719,0.781,0.792,0.684,0.744,(3.0397)+(-0.0369)Asn+(0.0223)Thr+(-0.0961)Cit+(-0.2898)Met+(0.0244)Orn+(0.0463)Ile;0.752,0.784,0.758,0.748,0.759,0.800,0.753,0.765,(7.4317)+(-0.0143)Asn+(-0.1053)His+(-0.0260)Cit+(0.0070)Pro+(-0.0149)Tyr+(0.0005)Val;0.752,0.796,0.759,0.779,0.761,0.815,0.663,0.754,(0.2400)+(0.0395)Ser+(-0.0991)Asn+(0.0028)Gln+(0.0099)Thr+(-0.2371)Met+(0.0073)Leu;0.752,0.794,0.761,0.785,0.745,0.823,0.683,0.759,(1.5193)+(0.0400)Ser+(-0.1040)Asn+(0.0033)Gln+(0.0124)Pro+(-0.0105)Val+(-0.1921)Met;0.752,0.793,0.750,0.723,0.785,0.769,0.736,0.753,(0.8698)+(-0.0897)Cit+(0.0023)Arg+(-0.3144)Met+(0.0249)Orn+(0.0383)Ile+(0.0652)Phe;0.752,0.791,0.724,0.725,0.718,0.784,0.693,0.730,(-0.2826)+(0.0490)Ser+(-0.0077)Gly+(0.0074)Thr+(0.0095)Pro+(-0.3335)Met+(0.0049)Leu;0.752,0.786,0.696,0.680,0.676,0.815,0.698,0.717,(-0.0558)+(0.0239)Ser+(-0.0011)Gln+(-0.0907)Cit+(-0.0065)Pro+(0.1689)Ile+(-0.0894)Leu;0.752,0.792,0.795,0.783,0.799,0.825,0.793,0.80

0,(1.7163)+(-0.0400)Asn+(0.0081)Gln+(-0.0799)Cit+(-0.2285)Met+(-0.0109)Lys+(0.0594)Ile;0.752,0.787,0.731,0.745,0.678,0.772,0.776,0.743,(2.7617)+(-0.0031)Gly+(-0.0056)Thr+(-0.0568)Tyr+(0.0164)Orn+(0.1551)Ile+(-0.0872)Leu;0.752,0.796,0.756,0.749,0.718,0.791,0.826,0.771,(2.0471)+(-0.1058)Asn+(0.0092)Orn+(-0.0070)Lys+(0.1385)Ile+(-0.0876)Leu+(0.0538)Phe;0.752,0.794,0.758,0.754,0.717,0.790,0.828,0.772,(2.0528)+(-0.1057)Asn+(0.0011)Thr+(-0.0063)Lys+(0.1409)Ile+(-0.0881)Leu+(0.0563)Phe;0.752,0.793,0.719,0.719,0.723,0.735,0.699,0.719,(0.3471)+(0.0302)Thr+(-0.0373)Tyr+(-0.3532)Met+(-0.0179)Lys+(0.0506)Ile+(0.0945)Phe;0.752,0.790,0.795,0.812,0.778,0.862,0.738,0.798,(2.2321)+(0.0347)Ser+(-0.1303)Asn+(0.0051)Gln+(-0.0051)Ala+(-0.0773)Cit+(-0.0059)Lys;0.752,0.788,0.777,0.789,0.768,0.852,0.708,0.779,(3.2964)+(0.0383)Ser+(-0.1108)Asn+(-0.0051)Ala+(-0.0704)Cit+(0.0023)Arg+(-0.0048)Lys;0.751,0.790,0.766,0.764,0.764,0.818,0.736,0.770,(6.8240)+(0.0037)Gly+(-0.1147)His+(-0.0013)Ala+(-0.0075)Arg+(-0.0789)Met+(0.0119)Lys;0.751,0.780,0.702,0.681,0.641,0.784,0.824,0.733,(2.5656)+(-0.0018)Gly+(-0.0034)Gln+(-0.0051)Pro+(-0.0575)Val+(0.0199)Orn+(0.1590)Ile;0.751,0.794,0.785,0.790,0.799,0.804,0.727,0.780,(-0.1888)+(0.0047)Gln+(-0.0897)Cit+(-0.0150)Val+(-0.2892)Met+(0.0416)Orn+(0.1073)Phe;0.751,0.791,0.754,0.781,0.737,0.747,0.725,0.747,(1.0783)+(0.0108)Pro+(-0.0298)Tyr+(-0.0181)Val+(-0.2798)Met+(0.0251)Orn+(0.1141)Phe;0.751,0.801,0.775,0.775,0.755,0.854,0.759,0.785,(3.8172)+(0.0327)Thr+(-0.0032)Ala+(-0.0449)Val+(-0.3076)Met+(-0.0052)Lys+(0.0826)Leu;0.751,0.792,0.762,0.752,0.764,0.797,0.757,0.768,(6.8606)+(-0.1097)His+(-0.0066)Arg+(0.0089)Pro+(-0.0022)Val+(-0.1156)Met+(0.0118)Lys;0.751,0.789,0.768,0.754,0.773,0.814,0.762,0.776,(7.2414)+(0.0027)Asn+(-0.1009)His+(-0.0280)Cit+(0.0037)Arg+(0.0083)Pro+(-0.0901)Met;0.751,0.788,0.756,0.777,0.776,0.833,0.602,0.747,(1.2635)+(0.0303)Ser+(0.0024)Gln+(0.0116)Thr+(-0.0729)Cit+(-0.0017)Val+(-

0.2709)Met;0.751,0.783,0.761,0.754,0.760,0.822,0.736,0.768,(6.8836)+(0.0038)Gly+(-0.1132)His+(-0.0028)Ala+(-0.0298)Cit+(-0.0041)Arg+(0.0067)Lys;0.751,0.783,0.777,0.764,0.776,0.824,0.777,0.785,(7.6653)+(-0.0055)Asn+(-0.1075)His+(-0.0031)Ala+(-0.0304)Cit+(-0.0021)Tyr+(0.0045)Val;0.751,0.797,0.727,0.720,0.753,0.750,0.677,0.725,(0.0682)+(0.0068)Gly+(-0.0837)Cit+(-0.0208)Tyr+(-0.3144)Met+(0.0498)Ile+(0.0892)Phe;0.751,0.789,0.782,0.768,0.792,0.833,0.762,0.789,(3.4084)+(-0.1107)Asn+(0.0098)Thr+(-0.0110)Ala+(-0.1154)Cit+(0.0479)Orn+(0.0508)Phe;0.751,0.789,0.796,0.820,0.777,0.792,0.775,0.791,(-0.3255)+(0.0035)Gln+(-0.0033)Ala+(-0.0149)Val+(-0.2852)Met+(0.0229)Orn+(0.1077)Phe;0.751,0.781,0.747,0.737,0.748,0.787,0.744,0.754,(6.9058)+(-0.1139)His+(-0.0257)Cit+(0.0069)Pro+(-0.0204)Tyr+(0.0002)Val+(0.0053)Lys;0.751,0.790,0.764,0.774,0.748,0.773,0.768,0.766,(0.2467)+(0.0026)Gly+(-0.0088)Ala+(0.0125)Pro+(-0.2988)Met+(0.0100)Orn+(0.0896)Phe;0.751,0.788,0.774,0.784,0.762,0.776,0.774,0.774,(0.9556)+(-0.0367)Asn+(0.0036)Gly+(-0.0084)Ala+(0.0126)Pro+(-0.2609)Met+(0.0923)Phe;0.751,0.784,0.767,0.758,0.759,0.812,0.776,0.776,(7.1822)+(-0.1185)His+(-0.0025)Ala+(-0.0067)Arg+(-0.0083)Tyr+(0.0020)Val+(0.0077)Lys;0.751,0.799,0.734,0.731,0.773,0.816,0.605,0.731,(0.9241)+(0.0360)Ser+(-0.0986)Cit+(-0.0053)Tyr+(-0.2588)Met+(0.0389)Orn+(0.0063)Leu;0.751,0.794,0.745,0.763,0.754,0.802,0.637,0.739,(0.9845)+(0.0413)Ser+(-0.0884)Asn+(0.0112)Thr+(-0.0046)Tyr+(-0.2295)Met+(0.0086)Leu;0.751,0.787,0.784,0.780,0.806,0.844,0.703,0.784,(5.1107)+(-0.0620)Asn+(0.0178)Thr+(-0.0070)Ala+(-0.1098)Cit+(-0.1431)Met+(0.0507)Orn;0.751,0.790,0.758,0.738,0.802,0.788,0.699,0.757,(1.8063)+(-0.0898)Cit+(0.0047)Pro+(-0.2598)Met+(0.0419)Orn+(-0.0125)Lys+(0.0825)Phe;0.751,0.789,0.747,0.743,0.747,0.759,0.750,0.750,(0.5534)+(0.0031)Gly+(-0.0218)Tyr+(-0.2939)Met+(-0.0125)Lys+(0.0506)Ile+(0.0811)Phe;0.751,0.789,0.770,0.756,0.781,0.833,0.737,0.777,(4.2647)+(-0.0831)Ci

t+(-0.0014)Tyr+(-0.0370)Val+(-0.2146)Met+(0.0547)Orn+(0.0565)Leu;0.751,0.788,0.750,0.754,0.753,0.847,0.660,0.754,(2.1355)+(0.0230)Ser+(-0.0089)Ala+(-0.1118)Cit+(-0.0107)Arg+(-0.0334)Tyr+(0.0533)Orn;0.751,0.794,0.775,0.776,0.779,0.763,0.777,0.774,(-1.4803)+(0.0055)Gln+(-0.0170)Arg+(0.0026)Pro+(-0.3695)Met+(0.0387)Ile+(0.0724)Phe;0.751,0.783,0.757,0.744,0.757,0.796,0.761,0.765,(7.0591)+(-0.0267)Asn+(-0.1141)His+(-0.0079)Arg+(0.0062)Pro+(-0.0036)Val+(0.0080)Lys;0.751,0.805,0.761,0.754,0.734,0.834,0.783,0.776,(1.1740)+(0.0490)Ser+(-0.0069)Gly+(-0.0373)Val+(-0.2683)Met+(-0.0046)Lys+(0.0714)Leu;0.751,0.791,0.690,0.675,0.630,0.779,0.789,0.718,(-3.3223)+(0.0370)Ser+(-0.0320)Thr+(0.0017)Orn+(0.1700)Ile+(-0.1053)Leu+(0.0481)Phe;0.751,0.785,0.781,0.801,0.771,0.785,0.749,0.776,(0.6696)+(0.0015)Gly+(-0.0034)Ala+(-0.0151)Val+(-0.2645)Met+(0.0265)Orn+(0.1087)Phe;0.751,0.789,0.770,0.758,0.771,0.813,0.768,0.777,(4.2422)+(-0.1495)Asn+(-0.0864)Cit+(-0.0432)Val+(0.0598)Orn+(0.0446)Leu+(0.0641)Phe;0.751,0.788,0.780,0.756,0.752,0.840,0.856,0.801,(3.8740)+(-0.0738)Asn+(-0.0138)Ala+(-0.0904)Cit+(0.0070)Arg+(0.0079)Pro+(0.0526)Ile;0.751,0.792,0.817,0.857,0.786,0.794,0.789,0.807,(1.6027)+(-0.1400)Asn+(0.0087)Gln+(-0.0708)Cit+(-0.0553)Tyr+(-0.0144)Val+(0.1077)Phe;0.751,0.787,0.767,0.786,0.774,0.827,0.656,0.761,(6.2503)+(-0.1143)Asn+(0.0127)Thr+(-0.0987)Cit+(-0.0362)Tyr+(-0.0127)Val+(0.0615)Orn;0.751,0.797,0.768,0.782,0.755,0.838,0.710,0.771,(2.9679)+(0.0388)Ser+(-0.1145)Asn+(-0.0057)Ala+(-0.0710)Cit+(-0.0164)Tyr+(0.0087)Leu;0.751,0.797,0.731,0.739,0.709,0.817,0.692,0.739,(-0.0317)+(0.0379)Ser+(0.0048)Thr+(-0.0075)Ala+(0.0146)Pro+(-0.2913)Met+(0.0087)Leu;0.751,0.795,0.711,0.694,0.662,0.830,0.773,0.740,(-0.5960)+(0.0364)Ser+(-0.0123)Ala+(-0.0186)Arg+(0.0064)Pro+(-0.0217)Lys+(0.0612)Ile;0.751,0.793,0.749,0.765,0.757,0.820,0.638,0.745,(1.3243)+(0.0398)Ser+(-0.0920)Asn+(0.0076)Thr+(-0.1970)Met+(0.0195)Orn+(-0.0041)Lys;0.751,0.791,

0.769,0.766,0.740,0.836,0.788,0.782,(4.2961)+(-0.0672)Asn+(-0.0675)Cit+(-0.0064)Arg+(-0.0036)Pro+(0.1585)Ile+(-0.0843)Leu;0.751,0.781,0.749,0.738,0.729,0.828,0.764,0.765,(2.9189)+(0.0029)Thr+(-0.0128)Ala+(-0.1200)Cit+(-0.0414)Tyr+(0.0429)Orn+(0.0518)Ile;0.751,0.794,0.767,0.764,0.786,0.819,0.697,0.767,(0.8575)+(0.0054)Gly+(-0.0079)Ala+(-0.1115)Cit+(-0.2314)Met+(0.0450)Orn+(0.0918)Phe;0.751,0.793,0.759,0.751,0.721,0.835,0.807,0.779,(3.2207)+(0.0517)Ser+(-0.1585)Asn+(-0.0065)Gly+(-0.0430)Val+(-0.0070)Lys+(0.0679)Leu;0.751,0.783,0.759,0.756,0.741,0.815,0.763,0.769,(3.5724)+(-0.0001)Gly+(0.0094)Pro+(-0.0427)Val+(-0.2697)Met+(0.0315)Orn+(0.0620)Leu;0.751,0.794,0.779,0.804,0.770,0.840,0.690,0.776,(1.8294)+(0.0421)Ser+(-0.0791)Asn+(-0.0025)Ala+(-0.0070)Arg+(0.0043)Tyr+(-0.1532)Met;0.75

1,0.793,0.775,0.762,0.784,0.816,0.762,0.781,(1.9274)+(-0.0104)Ala+(-0.0990)Cit+(0.0117)Pro+(-0.2335)Met+(0.0411)Orn+(0.0776)Phe;0.751,0.789,0.769,0.762,0.735,0.812,0.827,0.784,(2.9554)+(-0.0132)Asn+(-0.0097)Ala+(0.0096)Pro+(-0.0111)Tyr+(-0.2109)Met+(0.0580)Ile;0.751,0.788,0.763,0.741,0.774,0.802,0.770,0.772,(6.9404)+(0.0103)Asn+(-0.1174)His+(-0.0252)Cit+(-0.1095)Met+(0.0058)Lys+(0.0171)Leu;0.751,0.786,0.781,0.782,0.776,0.772,0.795,0.781,(1.9945)+(-0.0474)Cit+(0.0048)Arg+(-0.0361)Val+(-0.3069)Met+(0.0518)Leu+(0.1069)Phe;0.751,0.783,0.778,0.796,0.782,0.776,0.729,0.770,(1.2945)+(-0.0139)Arg+(-0.0170)Val+(-0.2644)Met+(0.0313)Orn+(0.0004)Lys+(0.1067)Phe;0.751,0.796,0.760,0.782,0.760,0.822,0.658,0.756,(0.5438)+(0.0385)Ser+(-0.1040)Asn+(0.0024)Gln+(0.0066)Thr+(-0.2127)Met+(0.0152)Orn;0.751,0.791,0.776,0.798,0.762,0.850,0.696,0.777,(3.5898)+(0.0376)Ser+(-0.1146)Asn+(-0.0041)Ala+(-0.0640)Cit+(-0.0106)Tyr+(-0.0030)Val;0.751,0.794,0.718,0.709,0.732,0.757,0.684,0.721,(-0.2964)+(0.0479)Ser+(-0.1798)Asn+(-0.0015)Gly+(-0.0785)Cit+(0.0013)Pro+(0.0605)Phe;0.751,0.796,0.767,0.781,0.755,0.832,0.711,0.770,(

1.0877)+(0.0439)Ser+(-0.0772)Asn+(-0.0033)Ala+(-0.1752)Met+(-0.0028)Lys+(0.0125)Leu;0.751,0.780,0.734,0.720,0.744,0.796,0.705,0.741,(6.2775)+(0.0042)Gly+(-0.1207)His+(-0.0287)Cit+(-0.0056)Arg+(0.0057)Pro+(0.0041)Lys;0.751,0.779,0.702,0.692,0.630,0.774,0.830,0.731,(0.5799)+(-0.0031)Gly+(-0.0459)Val+(0.0071)Orn+(0.1760)Ile+(-0.0401)Leu+(0.0252)Phe;0.751,0.785,0.769,0.785,0.777,0.829,0.668,0.765,(5.8912)+(-0.0994)Asn+(0.0020)Gly+(-0.0997)Cit+(-0.0286)Tyr+(-0.0121)Val+(0.0649)Orn;0.751,0.792,0.757,0.780,0.763,0.822,0.636,0.750,(1.6811)+(0.0391)Ser+(-0.0896)Asn+(0.0115)Thr+(-0.0021)Tyr+(-0.2015)Met+(-0.0015)Lys;0.751,0.789,0.740,0.719,0.730,0.845,0.742,0.759,(0.6805)+(0.0318)Ser+(-0.0184)Thr+(-0.0140)Ala+(-0.1209)Cit+(0.0128)Pro+(0.0492)Orn;0.751,0.784,0.759,0.756,0.747,0.815,0.750,0.767,(3.8683)+(-0.0091)Arg+(0.0093)Pro+(-0.0416)Val+(-0.2544)Met+(0.0344)Orn+(0.0598)Leu;0.751,0.790,0.769,0.762,0.779,0.831,0.723,0.774,(7.1779)+(-0.0059)Asn+(0.0047)Gly+(-0.1047)His+(-0.0321)Cit+(0.0124)Tyr+(-0.0680)Met;0.751,0.783,0.761,0.755,0.759,0.823,0.738,0.769,(6.8359)+(0.0036)Gly+(-0.1126)His+(-0.0028)Ala+(-0.0329)Cit+(-0.0008)Tyr+(0.0057)Lys;0.751,0.796,0.769,0.788,0.759,0.830,0.696,0.768,(1.1990)+(0.0439)Ser+(-0.0759)Asn+(-0.0033)Ala+(-0.0064)Arg+(-0.1739)Met+(0.0109)Leu;0.751,0.790,0.766,0.753,0.748,0.825,0.793,0.780,(2.9067)+(-0.0149)Asn+(0.0215)Thr+(-0.0077)Ala+(-0.2537)Met+(-0.0116)Lys+(0.0704)Ile;0.751,0.789,0.737,0.715,0.731,0.839,0.736,0.755,(3.1791)+(-0.1137)Cit+(-0.0083)Pro+(0.0470)Orn+(-0.0170)Lys+(0.1588)Ile+(-0.0819)Leu;0.751,0.788,0.706,0.737,0.679,0.730,0.661,0.702,(-0.7489)+(0.0451)Ser+(-0.1732)Asn+(-0.0001)Thr+(-0.0668)Tyr+(0.0130)Orn+(0.0844)Phe;0.751,0.785,0.741,0.761,0.699,0.787,0.741,0.747,(3.7395)+(-0.0006)Gly+(-0.0250)Arg+(-0.0009)Pro+(-0.0464)Tyr+(0.1676)Ile+(-0.0900)Leu;0.751,0.786,0.777,0.793,0.767,0.854,0.701,0.778,(3.4802)+(0.0380)Ser+(-0.1133)Asn+(-0.0045)Ala+(-0.0653)Cit+(-0.0028)Val+(

-0.0029)Lys;0.751,0.785,0.769,0.785,0.754,0.768,0.762,0.767,(0.4748)+(0.0029)Gly+(-0.0081)Ala+(0.0136)Pro+(-0.2909)Met+(-0.0080)Leu+(0.1001)Phe;0.751,0.787,0.753,0.738,0.752,0.789,0.771,0.763,(7.0330)+(-0.0135)Asn+(-0.1237)His+(-0.0032)Arg+(-0.0157)Tyr+(0.0048)Lys+(0.0124)Leu;0.751,0.791,0.763,0.755,0.761,0.805,0.758,0.770,(7.1096)+(0.0049)Asn+(-0.1057)His+(-0.0010)Arg+(0.0084)Pro+(-0.0027)Tyr+(-0.0858)Met;0.751,0.783,0.774,0.786,0.782,0.826,0.687,0.770,(6.1884)+(-0.0881)Asn+(-0.0983)Cit+(-0.0289)Tyr+(-0.0113)Val+(0.0666)Orn+(-0.0035)Lys;0.751,0.782,0.690,0.665,0.632,0.770,0.821,0.722,(2.0033)+(-0.0014)Gly+(-0.0042)Gln+(-0.0589)Val+(0.0156)Orn+(0.1517)Ile+(0.0220)Phe;0.751,0.783,0.751,0.724,0.761,0.793,0.770,0.762,(6.8594)+(-0.0181)Asn+(-0.1194)His+(-0.0274)Cit+(0.0038)Pro+(0.0017)Lys+(0.0100)Leu;0.751,0.792,0.783,0.809,0.772,0.849,0.687,0.779,(2.5095)+(0.0406)Ser+(-0.0849)Asn+(-0.0017)Ala+(-0.0070)Arg+(-0.0044)Val+(-0.1266)Met;0.751,0.792,0.788,0.800,0.768,0.839,0.764,0.792,(2.0070)+(0.0503)Ser+(-0.0810)Asn+(-0.0064)Gly+(-0.0023)Ala+(-0.1557)Met+(-0.0004)Lys;0.751,0.788,0.784,0.780,0.744,0.834,0.840,0.799,(4.3539)+(-0.0632)Asn+(-0.0107)Ala+(-0.0853)Cit+(0.0087)Arg+(-0.0283)Tyr+(0.0620)Ile;0.751,0.790,0.775,0.763,0.750,0.826,0.826,0.791,(3.0016)+(-0.0076)Ala+(-0.0072)Tyr+(-0.1944)Met+(0.0165)Orn+(-0.0110)Lys+(0.0661)Ile;0.751,0.788,0.732,0.751,0.749,0.747,0.637,0.721,(3.2431)+(-0.1248)Asn+(0.0159)Thr+(-0.1035)Cit+(-0.0759)Tyr+(0.0434)Orn+(0.0708)Phe;0.751,0.793,0.765,0.756,0.735,0.850,0.793,0.784,(3.4660)+(0.0044)Gly+(-0.0113)Ala+(-0.0932)Cit+(-0.0203)Tyr+(-0.0150)Lys+(0.0752)Ile;0.751,0.789,0.763,0.775,0.774,0.781,0.697,0.757,(1.7813)+(-0.0866)Cit+(-0.0309)Tyr+(-0.0149)Val+(-0.2136)Met+(0.0507)Orn+(0.1109)Phe;0.751,0.792,0.736,0.712,0.703,0.841,0.790,0.762,(-0.3888)+(0.0330)Ser+(-0.0021)Gly+(-0.0143)Ala+(-0.0892)Cit+(-0.0109)Arg+(0.0637)Ile;0.751,0.790,0.768,0.762,0.767,0.824,0.743,0.774,(6.9981)+(

-0.0031)Asn+(0.0037)Gly+(-0.1109)His+(-0.0017)Arg+(0.0103)Tyr+(-0.0671)Met;0.751,0.786,0.676,0.644,0.678,0.813,0.661,0.699,(0.1081)+(0.0230)Ser+(-0.0027)Gln+(-0.1078)Cit+(0.0275)Orn+(0.1519)Ile+(-0.0889)Leu;0.751,0.784,0.759,0.755,0.743,0.815,0.763,0.769,(3.6501)+(0.0092)Pro+(-0.0421)Val+(-0.2637)Met+(0.0324)Orn+(-0.0022)Lys+(0.0621)Leu;0.751,0.790,0.770,0.766,0.775,0.828,0.728,0.774,(7.3233)+(-0.0106)Asn+(0.0043)Gly+(-0.1021)His+(-0.0338)Cit+(0.0038)Arg+(-0.0492)Met;0.751,0.781,0.754,0.746,0.761,0.808,0.719,0.759,(6.9553)+(-0.0301)Asn+(0.0045)Gly+(-0.1130)His+(-0.0294)Cit+(-0.0028)Arg+(0.0068)Lys;0.751,0.794,0.706,0.691,0.658,0.810,0.771,0.732,(-0.7828)+(0.0355)Ser+(-0.0199)Thr+(-0.0038)Pro+(-0.0139)Lys+(0.1646)Ile+(-0.0826)Leu;0.751,0.791,0.773,0.771,0.731,0.818,0.832,0.788,(1.3309)+(0.0035)Gln+(-0.0098)Ala+(0.0090)Pro+(-0.0098)Tyr+(-0.2513)Met+(0.0587)Ile;0.751,0.790,0.767,0.752,0.775,0.809,0.764,0.775,(7.2187)+(-0.1022)His+(-0.0289)Cit+(0.0042)Arg+(0.0079)Pro+(0.0013)Val+(-0.0899)Met;0.751,0.798,0.763,0.770,0.763,0.833,0.697,0.766,(3.8883)+(0.0350)Thr+(-0.0147)Arg+(0.0039)Tyr+(-0.0468)Val+(-0.3330)Met+(0.0801)Leu;0.751,0.794,0.731,0.734,0.753,0.811,0.619,0.729,(1.3463)+(0.0412)Ser+(-0.0729)Cit+(0.0121)Pro+(-0.0016)Tyr+(-0.2662)Met+(-0.0032)Lys;0.751,0.785,0.764,0.788,0.760,0.753,0.714,0.754,(0.9785)+(0.0032)Gly+(-0.0091)Arg+(0.0112)Pro+(-0.0165)Val+(-0.3106)Met+(0.1158)Phe;0.751,0.785,0.762,0.777,0.763,0.819,0.681,0.760,(6.1728)+(-0.0987)Asn+(-0.0936)Cit+(0.0078)Pro+(-0.0372)Tyr+(-0.0144)Val+(0.0629)Orn;0.751,0.794,0.735,0.746,0.713,0.826,0.687,0.743,(0.3934)+(0.0372)Ser+(-0.0006)Gln+(-0.0074)Ala+(0.0151)Pro+(-0.2627)Met+(0.0134)Orn;0.751,0.794,0.739,0.753,0.719,0.829,0.678,0.745,(0.7351)+(0.0363)Ser+(0.0056)Thr+(-0.0069)Ala+(0.0155)Pro+(-0.2616)Met+(-0.0038)Lys;0.751,0.792,0.740,0.755,0.715,0.825,0.695,0.748,(0.4240)+(0.0377)Ser+(0.0001)Gln+(-0.0071)Ala+(0.0158)Pro+(0.0001)Tyr+(-0.2598)Met;0.75

1,0.779,0.776,0.765,0.773,0.820,0.779,0.784,(7.5787)+(-0.0195)Asn+(-0.1074)His+(-0.0028)Ala+(-0.0263)Cit+(-0.0013)Arg+(0.0073)Lys;0.751,0.795,0.794,0.824,0.774,0.850,0.713,0.790,(1.3617)+(0.0372)Ser+(-0.1097)Asn+(0.0039)Gln+(-0.0068)Val+(-0.1586)Met+(0.0023)Lys;0.751,0.793,0.760,0.769,0.715,0.852,0.765,0.775,(3.0585)+(0.0418)Ser+(-0.1556)Asn+(-0.0034)Ala+(-0.0080)Arg+(-0.0413)Val+(0.0675)Leu;0.751,0.787,0.783,0.764,0.793,0.855,0.762,0.794,(5.4853)+(-0.0659)Asn+(-0.0111)Ala+(-0.1162)Cit+(0.0101)Pro+(0.0605)Orn+(-0.0103)Lys;0.751,0.794,0.755,0.750,0.716,0.784,0.828,0.770,(1.7679)+(-0.1132)Asn+(-0.0020)Thr+(0.0073)Orn+(0.1404)Ile+(-0.0915)Leu+(0.0532)Phe;0.750,0.780,0.703,0.689,0.645,0.781,0.805,0.730,(2.3463)+(-0.0025)Gln+(-0.0070)Thr+(-0.0454)Val+(0.0171)Orn+(0.1766)Ile+(-0.0346)Leu;0.750,0.780,0.755,0.729,0.764,0.797,0.774,0.766,(6.9782)+(-0.0169)Asn+(-0.1205)His+(-0.0290)Cit+(0.0026)Arg+(0.0011)Lys+(0.0129)Leu;0.750,0.791,0.765,0.759,0.739,0.835,0.785,0.779,(4.3380)+(-0.0668)Asn+(-0.0680)Cit+(-0.0053)Arg+(-0.0027)Lys+(0.1520)Ile+(-0.0819)Leu;0.750,0.790,0.748,0.762,0.777,0.831,0.591,0.740,(1.7861)+(0.0332)Ser+(0.0123)Thr+(-0.0696)Cit+(0.0063)Tyr+(-0.0018)Val+(-0.2728)Met;0.750,0.786,0.786,0.784,0.794,0.847,0.730,0.789,(5.9116)+(-0.0616)Asn+(-0.0071)Ala+(-0.1127)Cit+(-0.0227)Tyr+(0.0660)Orn+(-0.0080)Lys;0.750,0.785,0.756,0.735,0.762,0.793,0.771,0.765,(7.1838)+(-0.0130)Asn+(-0.1172)His+(-0.0298)Cit+(0.0045)Arg+(-0.0133)Tyr+(0.0154)Leu;0.750,0.784,0.759,0.749,0.760,0.801,0.755,0.766,(7.4292)+(-0.0162)Asn+(-0.1045)His+(-0.0270)Cit+(0.0015)Arg+(0.0071)Pro+(-0.0146)Tyr;0.750,0.782,0.753,0.740,0.733,0.828,0.772,0.768,(3.0482)+(-0.0126)Ala+(-0.1181)Cit+(-0.0015)Arg+(-0.0391)Tyr+(0.0443)Orn+(0.0515)Ile;0.750,0.785,0.781,0.784,0.777,0.772,0.790,0.781,(2.1142)+(-0.0433)Cit+(-0.0358)Val+(-0.3008)Met+(0.0003)Lys+(0.0509)Leu+(0.1072)Phe;0.750,0.793,0.778,0.776,0.732,0.840,0.836,0.796,(2.4479)+(0.0476)Ser+(-0.190

5)Asn+(-0.0067)Gly+(0.0035)Gln+(-0.0450)Val+(0.0655)Leu;0.750,0.792,0.767,0.742,0.739,0.864,0.820,0.791,(2.9139)+(0.0050)Gly+(-0.0131)Ala+(-0.1107)Cit+(0.0129)Arg+(-0.0208)Lys+(0.0786)Ile;0.750,0.786,0.781,0.767,0.782,0.828,0.781,0.789,(7.5491)+(-0.1055)His+(-0.0027)Ala+(-0.0344)Cit+(0.0060)Arg+(0.0055)Val+(-0.0481)Met;0.750,0.795,0.764,0.766,0.737,0.815,0.777,0.774,(3.5245)+(-0.0166)Arg+(0.0007)Pro+(-0.2238)Met+(0.0051)Lys+(0.1719)Ile+(-0.0868)Leu;0.750,0.791,0.764,0.758,0.765,0.813,0.740,0.769,(6.5552)+(-0.0100)Asn+(0.0039)Gly+(-0.1160)His+(0.0063)Tyr+(-0.0958)Met+(0.0101)Lys;0.750,0.792,0.731,0.732,0.737,0.765,0.691,0.731,(-1.1569)+(0.0434)Ser+(-0.1980)Asn+(0.0037)Gln+(-0.0865)Cit+(0.0007)Pro+(0.0608)Phe;0.750,0.785,0.755,0.749,0.760,0.808,0.725,0.760,(7.0273)+(-0.0307)Asn+(0.0042)Gly+(-0.1112)His+(-0.0308)Cit+(-0.0057)Tyr+(0.0069)Lys;0.750,0.790,0.748,0.747,0.754,0.733,0.747,0.745,(-1.5216)+(-0.0564)Asn+(0.0046)Gln+(0.0209)Thr+(-0.3925)Met+(0.0358)Ile+(0.0753)Phe;0.750,0.787,0.753,0.746,0.751,0.762,0.768,0.757,(1.1238)+(-0.0266)Tyr+(-0.2706)Met+(0.0112)Orn+(-0.0137)Lys+(0.0457)Ile+(0.0760)Phe;0.750,0.787,0.669,0.642,0.655,0.784,0.684,0.691,(-1.6213)+(0.0278)Ser+(-0.0031)Gln+(-0.0946)Cit+(0.1611)Ile+(-0.0991)Leu+(0.0528)Phe;0.750,0.785,0.763,0.740,0.774,0.803,0.770,0.772,(7.0721)+(0.0145)Asn+(-0.1150)His+(-0.0257)Cit+(0.0027)Tyr+(-0.1003)Met+(0.0190)Leu;0.750,0.790,0.762,0.741,0.805,
0.792,0.705,0.761,(1.7719)+(-0.0994)Cit+(0.0072)Arg+(-0.2442)Met+(0.0455)Orn+(-0.0144)Lys+(0.0844)Phe;0.750,0.790,0.789,0.769,0.757,0.860,0.857,0.811,(1.1841)+(0.0046)Gln+(-0.0136)Ala+(-0.1030)Cit+(-0.0229)Lys+(0.0680)Ile+(0.0380)Phe;0.750,0.790,0.767,0.737,0.747,0.850,0.827,0.790,(3.5799)+(0.0098)Thr+(-0.0146)Ala+(-0.0981)Cit+(0.0072)Pro+(-0.0196)Lys+(0.0670)Ile;0.750,0.791,0.737,0.761,0.764,0.717,0.629,0.718,(1.9129)+(-0.0593)Asn+(0.0361)Thr+(-0.0777)Cit+(-0.0421)Tyr+(-0.2892)

Met+(0.1149)Phe;0.750,0.790,0.732,0.739,0.721,0.789,0.696,0.736,(-0.1990)+(0.0475)Ser+(-0.0080)Gly+(0.0008)Gln+(0.0067)Thr+(0.0100)Pro+(-0.3239)Met;0.750,0.783,0.745,0.735,0.753,0.802,0.716,0.751,(6.5935)+(0.0039)Gly+(-0.1202)His+(-0.0324)Cit+(-0.0094)Tyr+(0.0034)Val+(0.0039)Lys;0.750,0.792,0.766,0.789,0.769,0.824,0.657,0.760,(0.5716)+(0.0400)Ser+(-0.0949)Asn+(0.0031)Gln+(-0.0130)Arg+(-0.1847)Met+(0.0202)Orn;0.750,0.791,0.695,0.725,0.668,0.712,0.658,0.691,(-0.7745)+(0.0458)Ser+(-0.1720)Asn+(0.0005)Thr+(0.0053)Pro+(-0.0704)Tyr+(0.0857)Phe;0.750,0.786,0.738,0.759,0.697,0.787,0.736,0.745,(3.5832)+(-0.0263)Arg+(-0.0009)Pro+(-0.0468)Tyr+(0.0014)Lys+(0.1687)Ile+(-0.0912)Leu;0.750,0.785,0.739,0.760,0.698,0.785,0.738,0.745,(3.6913)+(-0.0007)Gly+(-0.0260)Arg+(-0.0481)Tyr+(0.0015)Lys+(0.1670)Ile+(-0.0909)Leu;0.750,0.795,0.785,0.808,0.771,0.854,0.706,0.785,(2.2201)+(0.0405)Ser+(-0.0889)Asn+(-0.0019)Ala+(0.0069)Tyr+(-0.0047)Val+(-0.1460)Met;0.750,0.794,0.697,0.679,0.653,0.801,0.764,0.724,(-0.9649)+(0.0358)Ser+(-0.0227)Thr+(0.0108)Orn+(-0.0148)Lys+(0.1560)Ile+(-0.0821)Leu;0.750,0.779,0.701,0.682,0.641,0.785,0.814,0.731,(2.4708)+(-0.0033)Gln+(-0.0040)Thr+(-0.0048)Pro+(-0.0567)Val+(0.0205)Orn+(0.1581)Ile;0.750,0.794,0.757,0.760,0.732,0.816,0.757,0.766,(3.1918)+(0.0023)Gly+(-0.0179)Arg+(-0.2263)Met+(0.0051)Lys+(0.1743)Ile+(-0.0870)Leu;0.750,0.791,0.761,0.740,0.766,0.799,0.778,0.771,(6.6918)+(0.0107)Asn+(-0.1231)His+(-0.0008)Arg+(-0.1128)Met+(0.0062)Lys+(0.0166)Leu;0.750,0.789,0.755,0.774,0.779,0.836,0.599,0.747,(1.3491)+(0.0307)Ser+(0.0026)Gln+(0.0125)Thr+(-0.0747)Cit+(-0.2600)Met+(-0.0051)Lys;0.750,0.792,0.754,0.768,0.716,0.853,0.726,0.766,(2.8992)+(0.0360)Ser+(-0.1529)Asn+(-0.0071)Ala+(0.0135)Pro+(-0.0146)Val+(0.0269)Orn;0.750,0.792,0.778,0.769,0.784,0.853,0.736,0.786,(4.7536)+(-0.0091)Ala+(-0.1029)Cit+(0.0142)Pro+(-0.0078)Val+(-0.1555)Met+(0.0555)Orn;0.750,0.791,0.778,0.749,0.751,0.853,0.855,0.802,(2.5903)+(-0.0

135)Ala+(-0.1032)Cit+(0.0121)Arg+(-0.0226)Lys+(0.0685)Ile+(0.0385)Phe;0.750,0.788,0.744,0.768,0.741,0.777,0.661,0.737,(-0.3363)+(0.0460)Ser+(-0.1670)Asn+(0.0001)Thr+(-0.0212)Arg+(-0.0193)Leu+(0.0803)Phe;0.750,0.791,0.717,0.753,0.687,0.728,0.675,0.711,(-0.9870)+(0.0438)Ser+(-0.1791)Asn+(0.0016)Gln+(0.0018)Thr+(-0.0660)Tyr+(0.0876)Phe;0.750,0.792,0.772,0.742,0.750,0.841,0.846,0.795,(2.7180)+(-0.0147)Ala+(-0.0944)Cit+(0.0075)Pro+(-0.0197)Lys+(0.0612)Ile+(0.0384)Phe;0.750,0.790,0.727,0.736,0.716,0.783,0.685,0.730,(0.4070)+(0.0474)Ser+(-0.0084)Gly+(0.0082)Thr+(0.0109)Pro+(-0.0144)Tyr+(-0.2999)Met;0.750,0.797,0.770,0.783,0.758,0.833,0.713,0.772,(0.9612)+(0.0439)Ser+(-0.0801)Asn+(-0.0034)Ala+(0.0029)Tyr+(-0.1864)Met+(0.0111)Leu;0.750,0.800,0.765,0.764,0.754,0.840,0.738,0.774,(3.8272)+(-0.0011)Gly+(0.0333)Thr+(-0.0463)Val+(-0.3263)Met+(-0.0055)Lys+(0.0818)Leu;0.750,0.788,0.790,0.792,0.779,0.792,0.810,0.793,(2.3106)+(-0.0033)Ala+(-0.0463)Cit+(-0.0333)Val+(-0.2719)Met+(0.0501)Leu+(0.1059)Phe;0.750,0.788,0.713,0.715,0.677,0.776,0.739,0.727,(0.8032)+(0.0494)Ser+(-0.1405)Asn+(-0.0068)Gly+(-0.0553)Tyr+(0.0132)Orn+(0.0364)Ile;0.750,0.779,0.743,0.731,0.754,0.803,0.712,0.750,(6.5095)+(0.0041)Gly+(-0.1219)His+(-0.0301)Cit+(-0.0036)Arg+(0.0025)Val+(0.0040)Lys;0.750,0.792,0.729,0.708,0.680,0.831,0.814,0.758,(-0.2446)+(0.0450)Ser+(-0.0065)Gly+(-0.0108)Ala+(-0.0153)Arg+(-0.0225)Lys+(0.0651)Ile;0.750,0.791,0.746,0.759,0.778,0.830,0.585,0.738,(1.8882)+(0.0338)Ser+(0.0131)Thr+(-0.0711)Cit+(0.0058)Tyr+(-0.2633)Met+(-0.0043)Lys;0.750,0.790,0.727,0.733,0.765,0.799,0.580,0.719,(1.0583)+(0.0363)Ser+(0.0145)Thr+(-0.0711)Cit+(-0.0057)Arg+(-0.3049)Met+(0.0129)Leu;0.750,0.786,0.772,0.797,0.775,0.773,0.700,0.761,(-1.0480)+(0.0046)Gln+(0.0283)Thr+(-0.0054)Ala+(-0.0247)Arg+(-0.3643)Met+(0.1036)Phe;0.750,0.785,0.770,0.755,0.773,0.845,0.752,0.781,(5.9739)+(-0.1175)Asn+(-0.0900)Cit+(-0.0399)Val+(0.0662)Orn+(-0.0070)Lys+(0.0534)Leu;0.750,0

.784,0.749,0.738,0.758,0.809,0.716,0.755,(6.7573)+(0.0041)Gly+(-0.1178)His+(-0.0339)Cit+(0.0002)Arg+(-0.0063)Tyr+(0.0041)Val;0.750,0.783,0.739,0.759,0.677,0.778,0.787,0.750,(2.3112)+(-0.0032)Gly+(0.0018)Gln+(-0.0048)Thr+(-0.0554)Tyr+(0.1576)Ile+(-0.0868)Leu;0.750,0.792,0.763,0.759,0.732,0.846,0.780,0.779,(4.1174)+(0.0161)Thr+(-0.0114)Ala+(-0.0926)Cit+(-0.0336)Tyr+(-0.0183)Lys+(0.0728)Ile;0.750,0.789,0.787,0.778,0.758,0.845,0.832,0.803,(4.7817)+(-0.0388)Asn+(-0.0100)Ala+(-0.0779)Cit+(-0.0219)Tyr+(-0.0099)Lys+(0.0671)Ile;0.750,0.786,0.808,0.808,0.814,0.856,0.765,0.811,(3.4117)+(-0.0773)Asn+(0.0062)Gln+(-0.0071)Ala+(-0.1127)Cit+(-0.1044)Met+(0.0518)Orn;0.750,0.784,0.793,0.788,0.801,0.859,0.741,0.797,(6.0287)+(-0.0787)Asn+(-0.0064)Ala+(-0.1087)Cit+(-0.0083)Val+(0.0674)Orn+(-0.0053)Lys;0.750,0.793,0.736,0.735,0.739,0.765,0.711,0.738,(-1.0640)+(0.0455)Ser+(-0.1966)Asn+(-0.0019)Gly+(0.0039)Gln+(-0.0838)Cit+(0.0595)Phe;0.750,0.793,0.732,0.741,0.707,0.815,0.703,0.742,(-0.0307)+(0.0394)Ser+(-0.0075)Ala+(0.0150)Pro+(-0.0004)Tyr+(-0.2751)Met+(0.0085)Leu;0.750,0.790,0.764,0.750,0.772,0.801,0.760,0.771,(6.9439)+(-0.1071)His+(-0.0235)Cit+(-0.0016)Arg+(0.0084)Pro+(-0.1156)Met+(0.0097)Lys;0.750,0.796,0.762,0.788,0.785,0.758,0.646,0.744,(0.7793)+(0.0347)Thr+(-0.0210)Arg+(-0.0170)Val+(-0.3603)Met+(-0.0005)Lys+(0.1297)Phe;0.750,0.793,0.730,0.735,0.752,0.808,0.616,0.728,(1.2321)+(0.0413)Ser+(-0.0700)Cit+(-0.0043)Arg+(0.0122)Pro+(-0.0024)Tyr+(-0.2730)Met;0.750,0.792,0.763,0.751,0.768,0.798,0.757,0.769,(6.9729)+(-0.1064)His+(-0.0245)Cit+(0.0088)Pro+(-0.0067)Tyr+(-0.1085)Met+(0.0097)Lys;0.750,0.790,0.748,0.768,0.747,0.803,0.655,0.743,(0.3755)+(0.0431)Ser+(-0.0848)Asn+(0.0032)Gln+(-0.0123)Arg+(0.0097)Pro+(-0.2217)Met;0.750,0.788,0.711,0.693,0.684,0.817,0.741,0.734,(-0.1805)+(0.0272)Ser+(-0.0040)Gly+(-0.0872)Cit+(-0.0067)Pro+(0.1678)Ile+(-0.0898)Leu;0.750,0.784,0.751,0.724,0.761,0.795,0.772,0.763,(6.8650)+(-0.0175)Asn+(-0.11

90)His+(-0.0293)Cit+(0.0022)Arg+(0.0037)Pro+(0.0110)Leu;0.750,0.794,0.723,0.721,0.747,0.795,0.624,0.722,(0.7372)+(0.0423)Ser+(-0.0747)Cit+(0.0111)Pro+(-0.0032)Tyr+(-0.2932)Met+(0.0074)Leu;0.750,0.789,0.770,0.759,0.778,0.821,0.747,0.776,(1.2649)+(0.0032)Gly+(0.0061)Gln+(-0.0831)Cit+(-0.2622)Met+(-0.0123)Lys+(0.0655)Ile;0.750,0.781,0.721,0.711,0.647,0.789,0.851,0.750,(1.0083)+(-0.0017)Gly+(-0.0045)Thr+(-0.0053)Pro+(-0.0566)Val+(0.1542)Ile+(0.0231)Phe;0.750,0.790,0.753,0.749,0.751,0.749,0.773,0.756,(1.1219)+(0.0041)Pro+(-0.0275)Tyr+(-0.2858)Met+(-0.0118)Lys+(0.0438)Ile+(0.0804)Phe;0.750,0.781,0.770,0.756,0.769,0.816,0.775,0.779,(7.3020)+(-0.1130)His+(-0.0032)Ala+(-0.0296)Cit+(-0.0066)Tyr+(0.0038)Val+(0.0053)Lys;0.750,0.792,0.759,0.750,0.762,0.812,0.737,0.765,(6.3730)+(0.0039)Gly+(-0.1202)His+(0.0056)Tyr+(0.0024)Val+(-0.1050)Met+(0.0091)Lys;0.750,0.793,0.749,0.770,0.752,0.818,0.639,0.745,(1.3345)+(0.0394)Ser+(-0.0969)Asn+(0.0073)Thr+(-0.0082)Tyr+(-0.1941)Met+(0.0186)Orn;0.750,0.790,0.773,0.771,0.748,0.790,0.821,0.783,(0.6906)+(-0.0078)Ala+(-0.0184)Tyr+(-0.2633)Met+(0.0046)Orn+(0.0525)Ile+(0.0709)Phe;0.750,0.790,0.731,0.744,0.777,0.743,0.590,0.713,(0.7554)+(-0.0596)Asn+(0.0058)Gly+(0.0308)Thr+(-0.0890)Cit+(-0.3467)Met+(0.1093)Phe;0.750,0.794,0.718,0.693,0.660,0.817,0.832,0.750,(-1.3741)+(0.0449)Ser+(-0.0070)Gly+(-0.0119)Ala+(-0.0290)Lys+(0.0597)Ile+(0.0302)Phe;0.750,0.794,0.745,0.759,0.758,0.805,0.637,0.740,(0.9813)+(0.0417)Ser+(-0.0828)Asn+(0.0121)Thr+(-0.2306)Met+(-0.0047)Lys+(0.0107)Leu;0.750,0.790,0.760,0.738,0.786,0.753,0.769,0.762,(1.2087)+(-0.0176)Asn+(-0.0733)Cit+(0.0057)Arg+(-0.3023)Met+(0.0437)Ile+(0.0715)Phe;0.750,0.788,0.727,0.742,0.674,0.774,0.764,0.738,(2.2734)+(-0.0082)Thr+(-0.0024)Pro+(-0.0515)Tyr+(0.0156)Orn+(0.1602)Ile+(-0.0882)Leu;0.750,0.786,0.776,0.775,0.748,0.821,0.801,0.787,(1.2504)+(-0.0452)Asn+(0.0040)Gln+(0.0174)Thr+(-0.0077)Ala+(-0.2709)Met+(0.0608)Ile;0.750,0.780,0.758,0.741,0

.762,0.798,0.763,0.766,(7.1279)+(-0.0282)Asn+(-0.1102)His+(-0.0253)Cit+(0.0059)Pro+(-0.0023)Val+(0.0056)Lys;0.750,0.796,0.759,0.760,0.769,0.831,0.685,0.761,(1.5369)+(0.0401)Ser+(-0.0048)Ala+(-0.0746)Cit+(-0.2022)Met+(-0.0069)Lys+(0.0199)Leu;0.750,0.788,0.776,0.781,0.766,0.778,0.778,0.776,(1.1186)+(-0.0086)Ala+(-0.0114)Arg+(0.0119)Pro+(-0.2706)Met+(0.0160)Orn+(0.0843)Phe;0.750,0.785,0.777,0.765,0.778,0.820,0.775,0.785,(7.3674)+(-0.1089)His+(-0.0025)Ala+(-0.0278)Cit+(0.0035)Val+(-0.0684)Met+(0.0084)Lys;0.750,0.792,0.780,0.763,0.750,0.869,0.825,0.802,(1.8730)+(0.0037)Gly+(0.0040)Gln+(-0.0130)Ala+(-0.1049)Cit+(-0.0202)Lys+(0.0759)Ile;0.750,0.786,0.768,0.767,0.768,0.760,0.776,0.768,(-1.4535)+(-0.0482)Asn+(0.0026)Gly+(0.0051)Gln+(-0.3417)Met+(0.0389)Ile+(0.0716)Phe;0.750,0.788,0.734,0.742,0.763,0.802,0.601,0.727,(0.4228)+(0.0344)Ser+(0.0019)Gln+(0.0122)Thr+(-0.0779)Cit+(-0.3135)Met+(0.0126)Leu;0.750,0.786,0.766,0.760,0.764,0.832,0.739,0.774,(7.1197)+(0.0038)Gly+(-0.1081)His+(-0.0026)Ala+(-0.0342)Cit+(0.0006)Arg+(0.0042)Tyr;0.750,0.782,0.760,0.742,0.765,0.804,0.761,0.768,(7.2716)+(-0.0190)Asn+(-0.1084)His+(-0.0270)Cit+(0.0008)Arg+(0.0058)Pro+(-0.0005)Val;0.750,0.787,0.766,0.754,0.805,0.791,0.696,0.762,(1.8486)+(-0.0933)Cit+(-0.2345)Met+(0.0468)Orn+(-0.0108)Lys+(-0.0080)Leu+(0.0896)Phe;0.750,0.791,0.744,0.735,0.713,0.816,0.781,0.761,(1.4775)+(-0.0895)Cit+(-0.0077)Pro+(-0.0146)Lys+(0.1704)Ile+(-0.0936)Leu+(0.0622)Phe;0.750,0.789,0.708,0.709,0.669,0.764,0.746,0.722,(0.8293)+(0.0498)Ser+(-0.1362)Asn+(-0.0066)Gly+(0.0024)Pro+(-0.0546)Tyr+(0.0377)Ile;0.750,0.786,0.767,0.784,0.766,0.767,0.725,0.760,(0.7095)+(-0.0581)Asn+(0.0020)Gly+(0.0253)Thr+(-0.0056)Ala+(-0.3004)Met+(0.0983)Phe;0.750,0.784,0.780,0.791,0.766,0.773,0.788,0.780,(1.2986)+(-0.0079)Ala+(0.0133)Pro+(-0.2679)Met+(-0.0042)Lys+(-0.0065)Leu+(0.0967)Phe;0.750,0.803,0.763,0.761,0.736,0.830,0.772,0.775,(1.2874)+(0.0486)Ser+(-0.0068)Gly+(-0.0075)Arg+(-0.0373

)Val+(-0.2692)Met+(0.0688)Leu;0.750,0.794,0.749,0.768,0.719,0.834,0.697,0.755,(1.0357)+(0.0359)Ser
+(0.0004)Gln+(-0.0064)Ala+(0.0172)Pro+(-0.0061)Val+(-0.2466)Met;0.750,0.792,0.760,0.751,0.762,0.792,0.755,0.765,(6.8820)+(-0.1114)His+(-0.0061)Arg+(0.0087)Pro+(-0.0080)Tyr+(-0.1059)Met+(0.0112)Lys;0.750,0.790,0.744,0.760,0.777,0.829,0.573,0.735,(2.0852)+(0.0333)Ser+(0.0146)Thr+(-0.0670)Cit+(-0.0054)Arg+(-0.2541)Met+(-0.0033)Lys;0.750,0.796,0.757,0.761,0.709,0.858,0.776,0.776,(2.9744)+(0.0420)Ser+(-0.1548)Asn+(-0.0035)Ala+(-0.0412)Val+(-0.0050)Lys+(0.0699)Leu;0.750,0.788,0.776,0.768,0.748,0.829,0.817,0.790,(2.6902)+(0.0027)Gly+(-0.0077)Ala+(-0.0035)Arg+(-0.2095)Met+(-0.0081)Lys+(0.0720)Ile;0.750,0.787,0.784,0.773,0.757,0.831,0.837,0.799,(3.1354)+(-0.0026)Asn+(-0.0076)Ala+(-0.0019)Arg+(-0.2006)Met+(-0.0081)Lys+(0.0696)Ile;0.750,0.782,0.782,0.803,0.775,0.751,0.765,0.773,(2.4079)+(-0.0483)Asn+(-0.0043)Arg+(0.0108)Pro+(-0.0175)Val+(-0.2509)Met+(0.1110)Phe;0.750,0.788,0.772,0.808,0.747,0.744,0.750,0.762,(-0.3013)+(0.0045)Gln+(0.0113)Pro+(-0.0267)Tyr+(-0.0161)Val+(-0.3124)Met+(0.1190)Phe;0.750,0.786,0.774,0.814,0.752,0.767,0.722,0.764,(3.6479)+(-0.1102)Asn+(-0.0125)Arg+(-0.0533)Tyr+(-0.0202)Val+(0.0415)Orn+(0.0970)Phe;0.750,0.783,0.774,0.759,0.773,0.822,0.779,0.783,(7.4522)+(-0.1099)His+(-0.0033)Ala+(-0.0335)Cit+(0.0034)Arg+(-0.0034)Tyr+(0.0049)Val;0.750,0.790,0.713,0.715,0.674,0.770,0.751,0.727,(0.7523)+(0.0502)Ser+(-0.1343)Asn+(-0.0065)Gly+(-0.0012)Thr+(-0.0516)Tyr+(0.0407)Ile;0.749,0.789,0.788,0.783,0.763,0.848,0.811,0.801,(5.1507)+(-0.0793)Asn+(-0.0030)Ala+(-0.0446)Val+(-0.1435)Met+(0.0423)Orn+(0.0690)Leu;0.749,0.781,0.775,0.788,0.780,0.828,0.691,0.772,(6.1233)+(-0.0939)Asn+(-0.0968)Cit+(-0.0004)Arg+(-0.0302)Tyr+(-0.0123)Val+(0.0652)Orn;0.749,0.790,0.728,0.738,0.733,0.798,0.643,0.728,(0.8103)+(0.0441)Ser+(-0.0839)Asn+(0.0086)Pro+(-0.2175)Met+(0.0169)Orn+(-0.0039)Lys;

0.749,0.788,0.789,0.769,0.761,0.841,0.860,0.808,(2.9100)+(-0.0840)Asn+(-0.0127)Ala+(-0.0904)Cit+(0.0069)Arg+(0.0505)Ile+(0.0379)Phe;0.749,0.788,0.710,0.744,0.682,0.729,0.668,0.706,(-0.9717)+(0.0441)Ser+(-0.1780)Asn+(0.0011)Gln+(-0.0669)Tyr+(0.0119)Orn+(0.0838)Phe;0.749,0.789,0.766,0.773,0.756,0.844,0.714,0.772,(2.7946)+(0.0376)Ser+(-0.1261)Asn+(0.0040)Thr+(-0.0067)Ala+(-0.0750)Cit+(0.0068)Leu;0.749,0.782,0.692,0.670,0.633,0.771,0.818,0.723,(1.9211)+(-0.0040)Gln+(-0.0049)Thr+(-0.0580)Val+(0.0166)Orn+(0.1508)Ile+(0.0232)Phe;0.749,0.794,0.714,0.687,0.655,0.822,0.829,0.748,(-0.4552)+(0.0439)Ser+(-0.0072)Gly+(-0.0126)Ala+(0.0058)Pro+(-0.0267)Lys+(0.0605)Ile;0.749,0.792,0.761,0.760,0.779,0.783,0.711,0.758,(1.5444)+(-0.0793)Cit+(0.0085)Pro+(-0.0174)Val+(-0.2844)Met+(0.0437)Orn+(0.1034)Phe;0.749,0.785,0.710,0.701,0.641,0.781,0.828,0.738,(0.5383)+(-0.0103)Thr+(-0.0426)Val+(0.0098)Orn+(0.1775)Ile+(-0.0449)Leu+(0.0291)Phe;0.749,0.790,0.788,0.812,0.779,0.775,0.752,0.779,(-0.5670)+(0.0005)Gly+(0.0035)Gln+(-0.0165)Val+(-0.3106)Met+(0.0214)Orn+(0.1093)Phe;0.749,0.787,0.792,0.784,0.801,0.835,0.766,0.796,(3.5566)+(-0.0967)Asn+(-0.0092)Ala+(-0.1116)Cit+(0.0550)Orn+(-0.0134)Leu+(0.0646)Phe;0.749,0.785,0.782,0.789,0.771,0.776,0.789,0.781,(1.4634)+(-0.0081)Ala+(-0.0058)Arg+(0.0128)Pro+(-0.2640)Met+(-0.0043)Lys+(0.0913)Phe;0.749,0.804,0.752,0.747,0.741,0.844,0.718,0.763,(0.6159)+(0.0411)Ser+(-0.0085)Arg+(0.0220)Tyr+(-0.0408)Val+(-0.3131)Met+(0.0741)Leu;0.749,0.795,0.808,0.828,0.782,0.851,0.783,0.811,(1.5453)+(0.0469)Ser+(-0.1066)Asn+(-0.0074)Gly+(0.0046)Gln+(-0.0065)Val+(-0.1551)Met;0.749,0.795,0.795,0.809,0.776,0.830,0.771,0.796,(0.7296)+(0.0493)Ser+(-0.0956)Asn+(-0.0073)Gly+(0.0042)Gln+(-0.1835)Met+(-0.0021)Lys;0.749,0.791,0.788,0.799,0.768,0.837,0.762,0.792,(2.0244)+(0.0502)Ser+(-0.0816)Asn+(-0.0065)Gly+(-0.0022)Ala+(-0.0016)Tyr+(-0.1542)Met;0.749,0.780,0.776,0.767,0.772,0.817,0.778,0.784,(7.6082)+(-0.0200)Asn+(-0.106

5)His+(-0.0026)Ala+(-0.0268)Cit+(-0.0046)Tyr+(0.0075)Lys;0.749,0.792,0.764,0.761,0.769,0.824,0.720,0.768,(1.3600)+(0.0445)Ser+(-0.0043)Gly+(-0.0044)Ala+(-0.0681)Cit+(-0.2254)Met+(0.0153)Leu;0.749,0.789,0.770,0.764,0.739,0.811,0.822,0.784,(2.9579)+(-0.0097)Ala+(-0.0065)Arg+(0.0097)Pro+(-0.0097)Tyr+(-0.2167)Met+(0.0588)Ile;0.749,0.786,0.761,0.753,0.727,0.809,0.817,0.777,(2.5376)+(-0.0099)Ala+(0.0094)Pro+(-0.0116)Tyr+(-0.2275)Met+(0.0080)Orn+(0.0565)Ile;0.749,0.794,0.731,0.738,0.708,0.820,0.697,0.741,(-0.1266)+(0.0381)Ser+(-0.0076)Ala+(0.0145)Pro+(-0.2776)Met+(0.0104)Orn+(0.0069)Leu;0.749,0.780,0.771,0.756,0.770,0.821,0.777,0.781,(7.2488)+(-0.1137)His+(-0.0035)Ala+(-0.0297)Cit+(-0.0007)Arg+(0.0035)Val+(0.0048)Lys;0.749,0.794,0.763,0.753,0.766,0.821,0.741,0.770,(6.7770)+(0.0040)Gly+(-0.1162)His+(-0.0015)Arg+(0.0076)Tyr+(0.0037)Val+(-0.0758)Met;0.749,0.791,0.776,0.779,0.777,0.764,0.776,0.774,(-1.5042)+(0.0057)Gln+(-0.0168)Arg+(-0.3628)Met+(-0.0017)Orn+(0.0422)Ile+(0.0718)Phe;0.749,0.790,0.767,0.754,0.773,0.809,0.756,0.773,(7.3715)+(-0.1012)His+(-0.0255)Cit+(0.0081)Pro+(-0.0034)Tyr+(0.0012)Val+(-0.0798)Met;0.749,0.790,0.766,0.742,0.777,0.803,0.778,0.775,(6.9591)+(-0.1159)His+(-0.0295)Cit+(0.0055)Arg+(-0.1052)Met+(0.0047)Lys+(0.0177)Leu;0.749,0.782,0.754,0.736,0.761,0.789,0.765,0.763,(7.2079)+(-0.0139)Asn+(-0.1181)His+(-0.0259)Cit+(-0.0147)Tyr+(0.0035)Lys+(0.0136)Leu;0.749,0.781,0.746,0.717,0.755,0.793,0.766,0.758,(6.6090)+(-0.1239)His+(-0.0280)Cit+(0.0001)Arg+(0.0035)Pro+(0.0001)Lys+(0.0111)Leu;0.749,0.794,0.749,0.765,0.758,0.812,0.643,0.745,(0.9988)+(0.0433)Ser+(-0.0837)Asn+(-0.0109)Arg+(-0.1913)Met+(0.0212)Orn+(0.0037)Leu;0.749,0.793,0.752,0.769,0.761,0.823,0.639,0.748,(1.3488)+(0.0421)Ser+(-0.0838)Asn+(-0.0107)Arg+(-0.1733)Met+(0.0240)Orn+(-0.0022)Lys;0.749,0.792,0.738,0.730,0.761,0.814,0.654,0.740,(1.0751)+(0.0368)Ser+(-0.1766)Asn+(0.0030)Gln+(-0.1050)Cit+(0.0009)Pro+(0.0381)Orn;0.749,0.790,0.782,0.75

9,0.751,0.854,0.855,0.805,(2.2834)+(0.0044)Gln+(-0.0146)Ala+(-0.1012)Cit+(0.0070)Pro+(-0.0200)Lys+(0.0686)Ile;0.749,0.788,0.775,0.787,0.770,0.855,0.695,0.777,(3.4911)+(0.0364)Ser+(-0.1165)Asn+(0.0069)Thr+(-0.0054)Ala+(-0.0714)Cit+(-0.0059)Lys;0.749,0.787,0.776,0.767,0.747,0.828,0.821,0.791,(2.6433)+(0.0026)Gly+(-0.0077)Ala+(-0.0008)Tyr+(-0.2115)Met+(-0.0090)Lys+(0.0724)Ile;0.749,0.787,0.756,0.750,0.733,0.816,0.778,0.769,(2.8241)+(0.0218)Thr+(-0.0075)Ala+(-0.0110)Tyr+(-0.2528)Met+(-0.0122)Lys+(0.0726)Ile;0.749,0.791,0.748,0.745,0.717,0.805,0.781,0.762,(2.2215)+(0.0174)Thr+(-0.0097)Ala+(0.0090)Pro+(-0.0156)Tyr+(-0.2775)Met+(0.0602)Ile;0.749,0.789,0.725,0.743,0.726,0.788,0.628,0.721,(2.8405)+(0.0387)Ser+(-0.1312)Asn+(0.0025)Thr+(-0.0697)Cit+(0.0081)Pro+(-0.0390)Tyr;0.749,0.783,0.753,0.740,0.755,0.797,0.748,0.760,(7.1712)+(-0.1100)His+(-0.0265)Cit+(0.0000)Arg+(0.0068)Pro+(-0.0163)Tyr+(0.0011)Val;0.749,0.778,0.699,0.677,0.639,0.780,0.823,0.730,(2.5790)+(-0.0015)Gly+(-0.0033)Gln+(-0.0042)Thr+(-0.0568)Val+(0.0191)Orn+(0.1524)Ile;0.749,0.792,0.745,0.744,0.726,0.829,0.727,0.757,(3.3956)+(0.0434)Ser+(-0.1527)Asn+(-0.0484)Cit+(-0.0377)Val+(-0.0063)Lys+(0.0628)Leu;0.749,0.790,0.767,0.755,0.773,0.810,0.755,0.773,(7.3477)+(0.0040)Asn+(-0.1004)His+(-0.0250)Cit+(0.0085)Pro+(-0.0022)Tyr+(-0.0835)Met;0.749,0.787,0.781,0.777,0.799,0.849,0.705,0.782,(4.7580)+(-0.0599)Asn+(0.0038)Gly+(-0.0072)Ala+(-0.1142)Cit+(-0.0863)Met+(0.0582)Orn;0.749,0.793,0.731,0.746,0.734,0.802,0.634,0.729,(3.0243)+(0.0402)Ser+(-0.1169)Asn+(-0.0683)Cit+(0.0087)Pro+(-0.0328)Tyr+(-0.0064)Lys;0.749,0.790,0.761,0.759,0.763,0.809,0.728,0.765,(6.8043)+(-0.0086)Asn+(0.0039)Gly+(-0.1152)His+(-0.0071)Arg+(-0.0818)Met+(0.0118)Lys;0.749,0.780,0.763,0.757,0.759,0.794,0.764,0.769,(7.3538)+(-0.0181)Asn+(-0.1158)His+(-0.0065)Arg+(-0.0116)Tyr+(-0.0000)Val+(0.0088)Lys;0.749,0.803,0.756,0.764,0.736,0.839,0.716,0.764,(0.7064)+(0.0380)Ser+(0.0013)Gln+(-0.0092)Arg+(

-0.0375)Val+(-0.2789)Met+(0.0694)Leu;0.749,0.790,0.779,0.791,0.756,0.777,0.796,0.780,(-0.6131)+(0.0035)Gln+(-0.0085)Ala+(0.0119)Pro+(-0.3120)Met+(0.0074)Orn+(0.0873)Phe;0.749,0.797,0.704,0.698,0.636,0.819,0.777,0.732,(-0.0880)+(0.0327)Ser+(-0.0112)Ala+(0.0072)Pro+(-0.0355)Tyr+(-0.0221)Lys+(0.0629)Ile;0.749,0.794,0.767,0.773,0.770,0.832,0.701,0.769,(0.6037)+(0.0357)Ser+(0.0026)Gln+(-0.0050)Ala+(-0.0790)Cit+(-0.2346)Met+(0.0160)Leu;0.749,0.790,0.746,0.765,0.777,0.831,0.574,0.737,(2.1072)+(0.0326)Ser+(0.0145)Thr+(-0.0642)Cit+(-0.0072)Arg+(-0.0018)Val+(-0.2582)Met;0.749,0.790,0.728,0.754,0.734,0.819,0.579,0.721,(1.5198)+(0.0354)Ser+(0.0121)Thr+(-0.0194)Arg+(0.0130)Pro+(-0.0089)Val+(-0.2832)Met;0.749,0.790,0.766,0.741,0.777,0.808,0.783,0.777,(7.0362)+(-0.1139)His+(-0.0322)Cit+(0.0084)Arg+(0.0014)Tyr+(-0.0978)Met+(0.0195)Leu;0.749,0.792,0.748,0.737,0.766,0.814,0.690,0.752,(1.1272)+(0.0402)Ser+(-0.1751)Asn+(-0.0030)Gly+(0.0032)Gln+(-0.1013)Cit+(0.0376)Orn;0.749,0.792,0.758,0.776,0.757,0.816,0.673,0.755,(0.1398)+(0.0414)Ser+(-0.0998)Asn+(0.0025)Gln+(-0.2073)Met+(0.0162)Orn+(0.0041)Leu;0.749,0.789,0.777,0.771,0.796,0.814,0.726,0.777,(3.9930)+(-0.1203)Asn+(-0.0962)Cit+(-0.0194)Val+(0.0607)Orn+(-0.0069)Lys+(0.0751)Phe;0.749,0.784,0.784,0.818,0.749,0.785,0.765,0.779,(3.4399)+(-0.1152)Asn+(-0.0037)Ala+(-0.0495)Tyr+(-0.0184)Val+(0.0380)Orn+(0.0983)Phe;0.749,0.793,0.750,0.770,0.746,0.819,0.651,0.747,(2.4726)+(0.0435)Ser+(-0.0835)Asn+(-0.0105)Arg+(0.0133)Pro+(-0.0099)Val+(-0.1781)Met;0.749,0.791,0.735,0.751,0.741,0.794,0.638,0.731,(1.0954)+(0.0457)Ser+(-0.0736)Asn+(-0.0106)Arg+(0.0103)Pro+(-0.2189)Met+(0.0002)Lys;0.749,0.786,0.775,0.768,0.771,0.813,0.776,0.782,(7.2913)+(-0.0033)Asn+(-0.1117)His+(-0.0016)Ala+(-0.0055)Arg+(-0.0682)Met+(0.0110)Lys;0.749,0.790,0.728,0.738,0.733,0.794,0.646,0.728,(0.5300)+(0.0447)Ser+(-0.0864)Asn+(0.0084)Pro+(-0.2337)Met+(0.0141)Orn+(0.0014)Leu;0.749,0.786,0.780,0.762,0.779,0.839,0.790,

0.793,(3.4910)+(-0.0927)Asn+(-0.0127)Ala+(-0.1127)Cit+(0.0083)Pro+(0.0484)Orn+(0.0439)Phe;0.749,0.789,0.752,0.744,0.716,0.826,0.796,0.771,(3.3497)+(0.0472)Ser+(-0.1870)Asn+(-0.0062)Gly+(0.0085)Thr+(-0.0470)Val+(0.0687)Leu;0.749,0.795,0.717,0.715,0.664,0.828,0.753,0.740,(-0.0279)+(0.0352)Ser+(-0.0094)Ala+(-0.0159)Arg+(-0.0297)Tyr+(-0.0182)Lys+(0.0685)Ile;0.749,0.791,0.758,0.752,0.763,0.808,0.727,0.763,(6.6223)+(0.0040)Gly+(-0.1190)His+(-0.0068)Arg+(0.0021)Val+(-0.0911)Met+(0.0108)Lys;0.749,0.783,0.763,0.771,0.767,0.775,0.727,0.760,(0.5429)+(0.0242)Thr+(-0.0055)Ala+(-0.3187)Met+(0.0111)Orn+(-0.0114)Lys+(0.1001)Phe;0.749,0.787,0.693,0.667,0.672,0.807,0.723,0.717,(-0.0157)+(0.0288)Ser+(-0.0039)Gly+(-0.0015)Gln+(-0

.0846)Cit+(0.1571)Ile+(-0.0884)Leu;0.749,0.789,0.779,0.767,0.774,0.826,0.788,0.789,(7.3762)+(-0.1110)His+(-0.0021)Ala+(0.0002)Arg+(0.0044)Tyr+(0.0038)Val+(-0.0528)Met;0.749,0.791,0.761,0.740,0.765,0.799,0.780,0.771,(6.6756)+(0.0104)Asn+(-0.1232)His+(-0.0003)Tyr+(-0.1129)Met+(0.0061)Lys+(0.0168)Leu;0.749,0.786,0.815,0.847,0.777,0.817,0.806,0.812,(1.2901)+(-0.1185)Asn+(0.0085)Gln+(-0.0070)Ala+(-0.0843)Cit+(-0.0502)Tyr+(0.0888)Phe;0.749,0.783,0.797,0.823,0.786,0.783,0.762,0.788,(1.9051)+(-0.0595)Asn+(0.0035)Gly+(-0.0025)Ala+(-0.0138)Val+(-0.2063)Met+(0.1159)Phe;0.749,0.780,0.756,0.747,0.732,0.833,0.775,0.772,(2.2438)+(0.0020)Gln+(-0.0130)Ala+(-0.1219)Cit+(-0.0414)Tyr+(0.0418)Orn+(0.0522)Ile;0.749,0.790,0.799,0.805,0.803,0.827,0.758,0.798,(2.3200)+(-0.1633)Asn+(0.0057)Gln+(-0.0997)Cit+(-0.0215)Val+(0.0533)Orn+(0.0740)Phe;0.749,0.783,0.686,0.662,0.662,0.787,0.729,0.710,(-2.0946)+(0.0271)Ser+(-0.0035)Gly+(-0.0945)Cit+(0.1594)Ile+(-0.0988)Leu+(0.0457)Phe;0.749,0.786,0.777,0.804,0.758,0.775,0.748,0.771,(1.1032)+(-0.0029)Ala+(-0.0233)Tyr+(-0.0149)Val+(-0.2309)Met+(0.0293)Orn+(0.1122)Phe;0.749,0.800,0.750,0.751,0.729,0.840,0.727,0.762,(0.6793)+(0.0385)Ser+(0.0007)G

ln+(-0.0376)Val+(-0.2805)Met+(-0.0041)Lys+(0.0722)Leu;0.749,0.791,0.761,0.753,0.749,0.815,0.769,0.771,(2.9165)+(0.0239)Thr+(-0.0076)Ala+(-0.0111)Arg+(-0.2640)Met+(-0.0103)Lys+(0.0710)Ile;0.749,0.788,0.778,0.769,0.772,0.816,0.784,0.785,(7.1249)+(-0.0050)Asn+(-0.1120)His+(-0.0016)Ala+(0.0032)Tyr+(-0.0752)Met+(0.0098)Lys;0.749,0.787,0.774,0.798,0.761,0.786,0.727,0.768,(3.6928)+(-0.1164)Asn+(0.0240)Thr+(-0.0077)Ala+(-0.0775)Cit+(-0.0584)Tyr+(0.0918)Phe;0.749,0.784,0.736,0.752,0.679,0.776,0.781,0.747,(2.8583)+(-0.0024)Gly+(-0.0031)Thr+(-0.0015)Pro+(-0.0533)Tyr+(0.1599)Ile+(-0.0864)Leu;0.749,0.783,0.771,0.809,0.745,0.760,0.732,0.761,(3.2828)+(-0.1250)Asn+(0.0008)Gly+(-0.0545)Tyr+(-0.0205)Val+(0.0376)Orn+(0.0983)Phe;0.749,0.797,0.762,0.769,0.760,0.834,0.695,0.765,(4.0124)+(0.0358)Thr+(-0.0136)Arg+(-0.0460)Val+(-0.3232)Met+(-0.0025)Lys+(0.0801)Leu;0.749,0.796,0.707,0.687,0.718,0.780,0.687,0.718,(0.5100)+(0.0448)Ser+(-0.1445)Asn+(-0.0046)Thr+(-0.0723)Cit+(-0.0060)Arg+(0.0384)Ile;0.749,0.790,0.738,0.753,0.736,0.803,0.656,0.737,(0.1390)+(0.0428)Ser+(-0.0949)Asn+(0.0021)Gln+(0.0083)Pro+(-0.2329)Met+(0.0128)Orn;0.749,0.787,0.774,0.787,0.738,0.831,0.774,0.783,(2.1440)+(-0.0993)Asn+(0.0015)Gly+(0.0058)Gln+(-0.0283)Arg+(0.1553)Ile+(-0.0893)Leu;0.749,0.785,0.780,0.771,0.778,0.821,0.776,0.786,(7.4846)+(-0.0065)Asn+(-0.1052)His+(-0.0019)Ala+(-0.0253)Cit+(-0.0635)Met+(0.0097)Lys;0.748,0.791,0.769,0.777,0.768,0.802,0.730,0.769,(1.2790)+(0.0534)Ser+(-0.0737)Asn+(-0.0063)Gly+(-0.0066)Arg+(-0.1973)Met+(0.0073)Leu;0.748,0.790,0.772,0.798,0.732,0.781,0.779,0.772,(3.8450)+(-0.1391)Asn+(-0.0488)Tyr+(-0.0411)Val+(0.0402)Orn+(0.0429)Leu+(0.0836)Phe;0.748,0.789,0.743,0.758,0.777,0.825,0.575,0.734,(1.7774)+(0.0339)Ser+(0.0137)Thr+(-0.0667)Cit+(-0.0068)Arg+(0.0047)Tyr+(-0.2730)Met;0.748,0.788,0.729,0.724,0.711,0.811,0.719,0.741,(3.2614)+(0.0434)Ser+(-0.1746)Asn+(-0.0483)Cit+(0.0087)Pro+(-0.0413)Val+(0.0583)Leu;0.748,0.789,0.700,0.7

34,0.670,0.713,0.667,0.696,(-1.0286)+(0.0450)Ser+(-0.1766)Asn+(0.0012)Gln+(0.0051)Pro+(-0.0702)Tyr+(0.0849)Phe;0.748,0.785,0.792,0.790,0.803,0.853,0.734,0.795,(5.8066)+(-0.0657)Asn+(-0.0054)Ala+(-0.1033)Cit+(-0.0085)Val+(-0.0657)Met+(0.0638)Orn;0.748,0.782,0.761,0.772,0.765,0.769,0.716,0.756,(0.3942)+(0.0010)Gly+(0.0262)Thr+(-0.0053)Ala+(-0.3299)Met+(-0.0100)Lys+(0.1048)Phe;0.748,0.801,0.763,0.762,0.754,0.840,0.729,0.771,(3.6249)+(0.0324)Thr+(0.0037)Tyr+(-0.0467)Val+(-0.3320)Met+(-0.0055)Lys+(0.0824)Leu;0.748,0.790,0.788,0.803,0.772,0.833,0.752,0.790,(2.1501)+(0.0506)Ser+(-0.0765)Asn+(-0.0064)Gly+(-0.0022)Ala+(-0.0068)Arg+(-0.1505)Met;0.748,0.787,0.756,0.757,0.728,0.794,0.783,0.766,(2.3462)+(-0.0880)Asn+(-0.0265)Arg+(0.0147)Orn+(0.1489)Ile+(-0.0972)Leu+(0.0561)Phe;0.748,0.797,0.725,0.708,0.759,0.800,0.647,0.728,(2.8419)+(0.0040)Gly+(0.0262)Thr+(-0.0875)Cit+(-0.3067)Met+(-0.0133)Lys+(0.0679)Ile;0.748,0.793,0.719,0.691,0.664,0.825,0.830,0.753,(-0.4954)+(0.0432)Ser+(-0.0073)Gly+(-0.0113)Ala+(0.0095)Orn+(-0.0276)Lys+(0.0627)Ile;0.748,0.794,0.769,0.779,0.793,0.779,0.683,0.758,(1.2315)+(0.0328)Thr+(-0.0063)Ala+(-0.0778)Cit+(-0.0069)Arg+(-0.3323)Met+(0.1072)Phe;0.748,0.787,0.756,0.755,0.749,0.841,0.712,0.764,(2.2025)+(0.0283)Ser+(-0.0054)Gly+(-0.0087)Ala+(-0.1128)Cit+(-0.0408)Tyr+(0.0518)Orn;0.748,0.786,0.764,0.791,0.780,0.740,0.679,0.747,(-0.9130)+(-0.0646)Asn+(0.0064)Gln+(0.0284)Thr+(-0.0233)Arg+(-0.3554)Met+(0.0962)Phe;0.748,0.788,0.780,0.778,0.762,0.837,0.784,0.790,(4.9710)+(-0.0845)Asn+(0.0010)Gly+(-0.0462)Val+(-0.1603)Met+(0.0412)Orn+(0.0692)Leu;0.748,0.782,0.790,0.778,0.807,0.853,0.737,0.794,(5.4834)+(-0.0469)Asn+(-0.0070)Ala+(-0.1106)Cit+(-0.0692)Met+(0.0624)Orn+(-0.0072)Lys;0.748,0.795,0.754,0.775,0.768,0.762,0.666,0.743,(1.2446)+(0.0336)Thr+(-0.0056)Ala+(-0.0816)Cit+(-0.0300)Tyr+(-0.3119)Met+(0.1174)Phe;0.748,0.787,0.780,0.765,0.784,0.820,0.781,0.787,(1.4588)+(0.0066)Gln+(-0.0818)Cit+(0.0043)Arg+

(-0.2611)Met+(-0.0133)Lys+(0.0639)Ile;0.748,0.790,0.730,0.735,0.722,0.793,0.686,0.734,(0.4418)+(0.0480)Ser+(-0.0079)Gly+(0.0086)Thr+(0.0102)Pro+(-0.3016)Met+(-0.0054)Lys;0.748,0.789,0.775,0.773,0.775,0.755,0.794,0.774,(-1.2272)+(-0.0441)Asn+(0.0055)Gln+(0.0022)Pro+(-0.3437)Met+(0.0353)Ile+(0.0695)Phe;0.748,0.792,0.708,0.686,0.644,0.820,0.819,0.742,(-1.0757)+(0.0392)Ser+(-0.0130)Thr+(-0.0124)Ala+(0.0066)Pro+(-0.0225)Lys+(0.0637)Ile;0.748,0.788,0.726,0.741,0.726,0.793,0.638,0.724,(0.9260)+(0.0434)Ser+(-0.0892)Asn+(0.0091)Pro+(-0.0130)Tyr+(-0.2070)Met+(0.0164)Orn;0.748,0.788,0.791,0.809,0.774,0.854,0.737,0.793,(2.0173)+(0.0346)Ser+(-0.1386)Asn+(0.0049)Gln+(-0.0056)Ala+(-0.0761)Cit+(-0.0031)Arg;0.748,0.788,0.761,0.767,0.726,0.793,0.798,0.771,(2.3601)+(-0.0844)Asn+(-0.0237)Arg+(-0.0004)Lys+(0.1516)Ile+(-0.0966)Leu+(0.0598)Phe;0.748,0.788,0.796,0.786,0.790,0.855,0.790,0.805,(3.5560)+(-0.1088)Asn+(0.0050)Gln+(-0.0118)Ala+(-0.1188)Cit+(0.0091)Pro+(0.0498)Orn;0.748,0.784,0.739,0.721,0.731,0.824,0.743,0.755,(-1.0672)+(0.0316)Ser+(-0.0167)Thr+(-0.0122)Ala+(-0.1229)Cit+(0.0482)Orn+(0.0485)Phe;0.748,0.783,0.784,0.785,0.789,0.838,0.733,0.786,(5.6182)+(-0.0733)Asn+(-0.0073)Ala+(-0.1109)Cit+(-0.0269)Tyr+(0.0619)Orn+(-0.0016)Leu;0.748,0.786,0.810,0.816,0.804,0.865,0.767,0.813,(4.3617)+(-0.1180)Asn+(0.0057)Gln+(-0.0065)Ala+(-0.1113)Cit+(-0.0101)Val+(0.0603)Orn;0.748,0.782,0.792,0.795,0.787,0.794,0.789,0.791,(1.7815)+(-0.0361)Asn+(-0.0054)Ala+(-0.2104)Met+(0.0229)Orn+(-0.0075)Lys+(0.0846)Phe;0.748,0.793,0.751,0.771,0.758,0.815,0.638,0.745,(1.4526)+(0.0417)Ser+(-0.0867)Asn+(-0.0115)Arg+(-0.0078)Tyr+(-0.1644)Met+(0.0241)Orn;0.748,0.790,0.753,0.784,0.722,0.739,0.748,0.748,(3.9206)+(-0.1815)Asn+(0.0287)Thr+(-0.0606)Tyr+(-0.0430)Val+(0.0494)Leu+(0.1022)Phe;0.748,0.793,0.736,0.749,0.713,0.827,0.684,0.743,(0.2570)+(0.0361)Ser+(0.0019)Thr+(-0.0073)Ala+(0.0149)Pro+(-0.2708)Met+(0.0119)Orn;0.748,0.784,0.784,0.769,0.789,0.836,0.

780,0.793,(3.3889)+(-0.0958)Asn+(-0.0107)Ala+(-0.1153)Cit+(0.0027)Arg+(0.0515)Orn+(0.0499)Phe;0.748,0.787,0.752,0.775,0.775,0.827,0.590,0.742,(1.1882)+(0.0309)Ser+(0.0027)Gln+(0.0132)Thr+(-0.0693)Cit+(-0.0087)Arg+(-0.2733)Met;0.748,0.787,0.779,0.765,0.797,0.815,0.755,0.783,(1.4897)+(-0.0564)Asn+(0.0067)Gln+(-0.0983)Cit+(-0.2387)Met+(0.0270)Orn+(0.0435)Ile;0.748,0.796,0.752,0.756,0.705,0.855,0.767,0.771,(3.1463)+(0.0379)Ser+(-0.1785)Asn+(0.0090)Thr+(-0.0039)Ala+(-0.0447)Val+(0.0716)Leu;0.748,0.794,0.726,0.702,0.666,0.829,0.841,0.760,(-0.6817)+(0.0471)Ser+(-0.0066)Gly+(-0.0095)Thr+(-0.0108)Ala+(-0.0235)Lys+(0.0676)Ile;0.748,0.782,0.766,0.786,0.759,0.759,0.732,0.759,(-1.2596)+(0.0004)Gly+(0.0031)Gln+(0.0215)Thr+(-0.0057)Ala+(-0.3652)Met+(0.0986)Phe;0.748,0.785,0.795,0.795,0.797,0.860,0.747,0.800,(3.3814)+(-0.1139)Asn+(0.0030)Gly+(0.0050)Gln+(-0.0091)Ala+(-0.1226)Cit+(0.0541)Orn;0.748,0.784,0.770,0.795,0.759,0.765,0.730,0.762,(1.1416)+(-0.0259)Tyr+(-0.0156)Val+(-0.2409)Met+(0.0299)Orn+(-0.0029)Lys+(0.1130)Phe;0.748,0.793,0.774,0.747,0.755,0.855,0.825,0.796,(2.5340)+(0.0116)Thr+(-0.0138)Ala+(-0.1005)Cit+(-0.0232)Lys+(0.0659)Ile+(0.0397)Phe;0.748,0.791,0.746,0.765,0.738,0.815,0.665,0.746,(2.2973)+(0.0424)Ser+(-0.0909)Asn+(0.0130)Pro+(-0.0025)Tyr+(-0.0098)Val+(-0.1836)Met;0.748,0.788,0.777,0.792,0.756,0.843,0.729,0.780,(0.5510)+(0.0411)Ser+(-0.0076)Gly+(0.0014)Gln+(0.0100)Thr+(-0.0027)Ala+(-0.2660)Met;0.748,0.786,0.781,0.829,0.751,0.748,0.738,0.767,(2.1693)+(-0.1763)Asn+(0.0049)Gln+(0.0220)Thr+(-0.0656)Tyr+(-0.0198)Val+(0.1123)Phe;0.748,0.785,0.759,0.757,0.755,0.753,0.781,0.761,(1.3995)+(-0.0130)Asn+(-0.0259)Tyr+(-0.2611)Met+(-0.0114)Lys+(0.0471)Ile+(0.0781)Phe;0.748,0.785,0.771,0.786,0.751,0.765,0.780,0.771,(1.5568)+(-0.0077)Ala+(0.0134)Pro+(-0.0248)Tyr+(-0.2413)Met+(-0.0052)Lys+(0.0975)Phe;0.748,0.796,0.794,0.810,0.771,0.831,0.771,0.796,(0.8094)+(0.0490)Ser+(-0.0980)Asn+(-0.0073)Gly+(0.0042)Gln+(-0.0065)

Tyr+(-0.1780)Met;0.748,0.790,0.793,0.807,0.771,0.846,0.762,0.796,(2.6285)+(0.0492)Ser+(-0.0871)Asn+(-0.0066)Gly+(-0.0014)Ala+(-0.0048)Val+(-0.1367)Met;0.748,0.790,0.757,0.762,0.742,0.820,0.727,0.763,(0.2009)+(0.0445)Ser+(-0.0070)Gly+(0.0108)Thr+(-0.0035)Ala+(-0.2886)Met+(0.0120)Leu;0.748,0.786,0.775,0.766,0.772,0.813,0.777,0.782,(7.1966)+(-0.1141)His+(-0.0019)Ala+(-0.0049)Arg+(0.0020)Val+(-0.0717)Met+(0.0102)Lys;0.748,0.784,0.783,0.783,0.785,0.837,0.738,0.786,(5.5185)+(-0.0762)Asn+(-0.0076)Ala+(-0.1138)Cit+(0.0034)Arg+(-0.0276)Tyr+(0.0613)Orn;0.748,0.781,0.746,0.737,0.747,0.787,0.740,0.753,(6.9995)+(-0.1140)His+(-0.0218)Cit+(-0.0048)Arg+(0.0070)Pro+(-0.0207)Tyr+(0.0066)Lys;0.748,0.790,0.734,0.752,0.737,0.791,0.637,0.729,(1.3162)+(0.0452)Ser+(-0.0744)Asn+(-0.0105)Arg+(0.0107)Pro+(-0.0084)Tyr+(-0.2028)Met;0.748,0.789,0.781,0.814,0.761,0.771,0.744,0.773,(-0.3030)+(0.0035)Gln+(-0.0255)Tyr+(-0.0160)Val+(-0.2754)Met+(0.0237)Orn+(0.1152)Phe;0.748,0.790,0.759,0.764,0.728,0.792,0.787,0.768,(2.3801)+(-0.0955)Asn+(0.0064)Thr+(-0.0269)Arg+(0.1497)Ile+(-0.0966)Leu+(0.0607)Phe;0.748,0.785,0.770,0.781,0.770,0.768,0.746,0.766,(0.9464)+(-0.0560)Asn+(0.0246)Thr+(-0.0058)Ala+(-0.2941)Met+(0.0069)Orn+(0.0932)Phe;0.748,0.783,0.783,0.776,0.782,0.828,0.775,0.790,(7.8056)+(-0.0047)Asn+(-0.0993)His+(-0.0017)Ala+(-0.0295)Cit+(0.0044)Arg+(-0.0358)Met;0.748,0.784,0.770,0.778,0.722,0.819,0.815,0.784,(2.0130)+(-0.1227)Asn+(0.0010)Gly+(0.0043)Gln+(-0.0048)Pro+(0.1495)Ile+(-0.0840)Leu;0.748,0.788,0.776,0.764,0.772,0.817,0.784,0.784,(7.0295)+(-0.1150)His+(-0.0020)Ala+(0.0023)Tyr+(0.0024)Val+(-0.0784)Met+(0.0090)Lys;0.748,0.786,0.775,0.798,0.749,0.765,0.774,0.772,(1.7141)+(-0.0058)Ala+(0.0149)Pro+(-0.0216)Tyr+(-0.0135)Val+(-0.2546)Met+(0.1140)Phe;0.748,0.781,0.788,0.788,0.753,0.832,0.830,0.801,(1.1089)+(-0.0366)Asn+(0.0016)Gly+(0.0045)Gln+(-0.0077)Ala+(-0.2292)Met+(0.0627)Ile;0.748,0.794,0.722

,0.694,0.718,0.816,0.734,0.740,(1.4923)+(-0.1167)Cit+(0.0394)Orn+(-0.0206)Lys+(0.1467)Ile+(-0.0868)Leu+(0.0523)Phe;0.748,0.790,0.776,0.793,0.757,0.849,0.716,0.779,(1.3954)+(0.0410)Ser+(-0.0076)Gly+(0.0116)Thr+(-0.0020)Ala+(-0.0036)Val+(-0.2527)Met;0.748,0.789,0.762,0.758,0.771,0.815,0.716,0.765,(6.8483)+(0.0043)Gly+(-0.1104)His+(-0.0274)Cit+(-0.0028)Arg+(-0.0875)Met+(0.0104)Lys;0.748,0.785,0.775,0.774,0.790,0.805,0.726,0.774,(3.8931)+(-0.1310)Asn+(-0.0913)Cit+(-0.0029)Arg+(-0.0215)Val+(0.0580)Orn+(0.0743)Phe;0.748,0.795,0.734,0.739,0.712,0.822,0.705,0.745,(0.2181)+(0.0402)Ser+(-0.0074)Ala+(0.0149)Pro+(-0.2577)Met+(-0.0060)Lys+(0.0114)Leu;0.748,0.792,0.780,0.809,0.774,0.829,0.678,0.772,(0.6477)+(0.0399)Ser+(-0.0939)Asn+(0.0040)Gln+(-0.0106)Arg+(-0.1776)Met+(0.0006)Lys;0.748,0.793,0.738,0.716,0.768,0.797,0.691,0.743,(3.3035)+(0.0275)Thr+(-0.0817)Cit+(0.0016)Arg+(-0.3017)Met+(-0.0135)Lys+(0.0647)Ile;0.748,0.792,0.756,0.759,0.763,0.826,0.685,0.758,(1.2356)+(0.0388)Ser+(-0.0048)Ala+(-0.0748)Cit+(0.0009)Arg+(-0.2252)Met+(0.0167)Leu;0.748,0.784,0.724,0.741,0.670,0.771,0.758,0.735,(2.0538)+(0.0006)Gln+(-0.0090)Thr+(-0.0531)Tyr+(0.0139)Orn+(0.1565)Ile+(-0.0876)Leu;0.748,0.794,0.793,0.793,0.800,0.817,0.763,0.793,(-0.0914)+(0.0050)Gln+(-0.0077)Ala+(-0.1070)Cit+(-0.2496)Met+(0.0395)Orn+(0.0867)Phe;0.748,0.790,0.766,0.794,0.737,0.844,0.695,0.768,(3.1107)+(0.0337)Ser+(-0.1400)Asn+(-0.0032)Ala+(-0.0193)Tyr+(-0.0105)Val+(0.0335)Orn;0.748,0.788,0.786,0.799,0.766,0.848,0.749,0.790,(1.7519)+(0.0352)Ser+(-0.1420)Asn+(0.0046)Gln+(-0.0066)Ala+(-0.0809)Cit+(0.0063)Leu;0.748,0.783,0.758,0.782,0.752,0.743,0.722,0.750,(0.5843)+(0.0028)Gly+(0.0112)Pro+(-0.0172)Val+(-0.3274)Met+(0.0013)Lys+(0.1154)Phe;0.748,0.794,0.796,0.812,0.781,0.828,0.759,0.795,(0.7895)+(0.0493)Ser+(-0.0913)Asn+(-0.0073)Gly+(0.0047)Gln+(-0.0106)Arg+(-0.1813)Met;0.748,0.794,0.749,0.758,0.724,0.842,0.713,0.759,(1.5971)+(0.0388)Ser+(-0.1305)Asn+(-0.0091)Ala+(

-0.0171)Arg+(0.0106)Pro+(0.0185)Orn;0.748,0.794,0.748,0.766,0.719,0.834,0.697,0.754,(1.1364)+(0.0364)Ser+(-0.0065)Ala+(0.0173)Pro+(-0.0061)Val+(-0.2448)Met+(-0.0000)Lys;0.748,0.787,0.800,0.803,0.768,0.838,0.836,0.811,(1.2819)+(-0.0292)Asn+(0.0056)Gln+(-0.0075)Ala+(-0.0114)Arg+(-0.2208)Met+(0.0618)Ile;0.748,0.785,0.787,0.799,0.750,0.833,0.803,0.796,(2.2258)+(-0.0947)Asn+(0.0064)Gln+(-0.0280)Arg+(-0.0045)Pro+(0.1627)Ile+(-0.0908)Leu;0.748,0.784,0.738,0.717,0.776,0.801,0.668,0.741,(2.7065)+(-0.0379)Asn+(0.0052)Gly+(-0.1002)Cit+(-0.2258)Met+(0.0325)Orn+(0.0466)Ile;0.748,0.785,0.724,0.735,0.680,0.771,0.754,0.735,(2.7197)+(-0.0048)Thr+(-0.0507)Tyr+(0.0173)Orn+(-0.0084)Lys+(0.1523)Ile+(-0.0816)Leu;0.748,0.793,0.736,0.748,0.712,0.825,0.687,0.743,(0.2982)+(0.0363)Ser+(-0.0073)Ala+(0.0151)Pro+(-0.0030)Tyr+(-0.2606)Met+(0.0131)Orn;0.748,0.792,0.765,0.774,0.736,0.837,0.753,0.775,(2.3587)+(0.0388)Ser+(-0.1876)Asn+(0.0047)Gln+(-0.0565)Cit+(-0.0391)Val+(0.0602)Leu;0.748,0.791,0.732,0.746,0.740,0.791,0.638,0.729,(0.8838)+(0.0463)Ser+(-0.0726)Asn+(-0.0102)Arg+(0.0099)Pro+(-0.2266)Met+(0.0032)Leu;0.747,0.792,0.742,0.755,0.717,0.826,0.696,0.749,(0.6398)+(0.0380)Ser+(-0.0070)Ala+(0.0159)Pro+(0.0007)Tyr+(-0.2484)Met+(-0.0029)Lys;0.747,0.795,0.737,0.748,0.715,0.830,0.688,0.745,(0.5612)+(0.0365)Ser+(-0.0072)Ala+(0.0148)Pro+(-0.2448)Met+(0.0162)Orn+(-0.0055)Lys;0.747,0.793,0.767,0.781,0.751,0.844,0.707,0.771,(1.1182)+(0.0411)Ser+(-0.0084)Gly+(0.0073)Thr+(-0.0072)Val+(-0.2625)Met+(0.0225)Orn;0.747,0.788,0.752,0.769,0.776,0.827,0.603,0.744,(0.9704)+(0.0317)Ser+(0.0023)Gln+(0.0109)Thr+(-0.0750)Cit+(0.0047)Tyr+(-0.2846)Met;0.747,0.787,0.781,0.768,0.785,0.820,0.776,0.787,(1.4621)+(0.0068)Gln+(-0.0785)Cit+(0.0008)Pro+(-0.2620)Met+(-0.0123)Lys+(0.0621)Ile;0.747,0.782,0.776,0.795,0.788,0.780,0.699,0.766,(2.0313)+(-0.0602)Asn+(0.0062)Gly+(-0.0632)Cit+(-0.0129)Val+(-0.2079)Met+(0.1220)Phe;0.747,0.788,0.756,0.750,0.769,0.744,0.753,0.

754,(1.7052)+(-0.0190)Asn+(-0.0666)Cit+(-0.0277)Tyr+(-0.2525)Met+(0.0434)Ile+(0.0788)Phe;0.747,0.780,0.713,0.700,0.642,0.786,0.845,0.743,(0.7977)+(-0.0031)Gly+(-0.0065)Pro+(-0.0581)Val+(0.0131)Orn+(0.1542)Ile+(0.0185)Phe;0.747,0.785,0.792,0.803,0.793,0.764,0.781,0.785,(-0.4401)+(-0.0501)Asn+(0.0062)Gln+(0.0061)Pro+(-0.2978)Met+(-0.0083)Lys+(0.0882)Phe;0.747,0.780,0.713,0.702,0.648,0.787,0.825,0.741,(1.7031)+(-0.0021)Gly+(-0.0082)Thr+(-0.0439)Val+(0.0146)Orn+(0.1758)Ile+(-0.0377)Leu;0.747,0.789,0.762,0.785,0.755,0.821,0.672,0.758,(0.5846)+(0.0396)Ser+(-0.1034)Asn+(0.0025)Gln+(-0.0072)Tyr+(-0.1814)Met+(0.0190)Orn;0.747,0.794,0.737,0.715,0.768,0.796,0.688,0.742,(3.3187)+(0.0277)Thr+(-0.0805)Cit+(0.0006)Pro+(-0.3030)Met+(-0.0131)Lys+(0.0638)Ile;0.747,0.784,0.782,0.791,0.777,0.791,0.765,0.781,(0.8198)+(0.0018)Gly+(-0.0054)Ala+(-0.2502)Met+(0.0208)Orn+(-0.0086)Lys+(0.0902)Phe;0.747,0.793,0.760,0.757,0.771,0.832,0.690,0.763,(1.0207)+(0.0398)Ser+(-0.0051)Ala+(-0.0756)Cit+(0.0126)Tyr+(-0.2445)Met+(0.0165)Leu;0.747,0.787,0.768,0.771,0.749,0.817,0.763,0.775,(1.0770)+(0.0040)Gln+(0.0207)Thr+(-0.0077)Ala+(-0.0196)Arg+(-0.2994)Met+(0.0650)Ile;0.747,0.783,0.789,0.772,0.802,0.858,0.760,0.798,(5.5487)+(-0.0702)Asn+(-0.0084)Ala+(-0.1233)Cit+(0.0089)Arg+(0.0653)Orn+(-0.0117)Lys;0.747,0.782,0.742,0.738,0.701,0.818,0.787,0.761,(2.6669)+(0.0033)Gly+(-0.0142)Ala+(-0.0963)Cit+(0.0098)Pro+(-0.0370)Tyr+(0.0591)Ile;0.747,0.794,0.794,0.827,0.780,0.851,0.697,0.789,(1.5035)+(0.0374)Ser+(-0.1020)Asn+(0.0046)Gln+(-0.0106)Arg+(-0.0063)Val+(-0.1417)Met;0.747,0.788,0.781,0.793,0.763,0.838,0.743,0.784,(3.5115)+(0.0438)Ser+(-0.1104)Asn+(-0.0046)Gly+(-0.0045)Ala+(-0.0609)Cit+(-0.0172)Tyr;0.747,0.785,0.776,0.793,0.776,0.762,0.738,0.767,(1.1463)+(-0.0592)Asn+(0.0266)Thr+(-0.0050)Ala+(-0.2884)Met+(-0.0079)Leu+(0.1032)Phe;0.747,0.783,0.768,0.769,0.780,0.758,0.750,0.764,(1.3240)+(-0.0305)Asn+(0.0060)Pro+(-0.2759)Met+(0.0168)Orn+(-0.0092)Lys+

(0.0826)Phe;0.747,0.795,0.709,0.685,0.715,0.778,0.713,0.722,(0.4937)+(0.0469)Ser+(-0.1470)Asn+(-0.0018)Gly+(-0.0059)Thr+(-0.0734)Cit+(0.0370)Ile;0.747,0.789,0.740,0.727,0.764,0.757,0.714,0.741,(1.2502)+(-0.0898)Cit+(-0.0321)Tyr+(-0.2643)Met+(0.0295)Orn+(0.0370)Ile+(0.0733)Phe;0.747,0.782,0.792,0.789,0.760,0.833,0.838,0.805,(1.2330)+(-0.0362)Asn+(0.0046)Gln+(-0.0077)Ala+(-0.2269)Met+(0.0052)Orn+(0.0596)Ile;0.747,0.791,0.728,0.731,0.719,0.792,0.694,0.734,(-0.1749)+(0.0481)Ser+(-0.0080)Gly+(0.0050)Thr+(0.0095)Pro+(-0.3206)Met+(0.0106)Orn;0.747,0.786,0.794,0.815,0.772,0.858,0.736,0.795,(2.3789)+(0.0339)Ser+(-0.1424)Asn+(0.0050)Gln+(-0.0045)Ala+(-0.0724)Cit+(-0.0044)Val;0.747,0.783,0.750,0.730,0.755,0.791,0.763,0.760,(6.9669)+(-0.1214)His+(-0.0276)Cit+(0.0017)Arg+(-0.0153)Tyr+(0.0019)Lys+(0.0146)Leu;0.747,0.794,0.794,0.824,0.776,0.853,0.711,0.791,(1.2945)+(0.0376)Ser+(-0.1068)Asn+(0.0040)Gln+(0.0043)Tyr+(-0.0064)Val+(-0.1607)Met;0.747,0.793,0.780,0.808,0.751,0.769,0.776,0.776,(0.8288)+(-0.1298)Asn+(0.0080)Gln+(-0.0869)Cit+(-0.0687)Tyr+(0.0275)Ile+(0.0646)Phe;0.747,0.792,0.777,0.806,0.774,0.835,0.667,0.770,(2.4146)+(0.0407)Ser+(-0.0905)Asn+(-0.0092)Arg+(-0.0065)Val+(-0.1469)Met+(0.0047)Lys;0.747,0.785,0.784,0.803,0.779,0.769,0.752,0.776,(-0.4859)+(0.0063)Gln+(-0.0648)Cit+(0.0098)Pro+(-0.0142)Val+(-0.3315)Met+(0.1145)Phe;0.747,0.783,0.739,0.733,0.702,0.798,0.786,0.755,(0.7048)+(-0.0081)Thr+(-0.0861)Cit+(-0.0074)Pro+(0.1757)Ile+(-0.1031)Leu+(0.0559)Phe;0.747,0.784,0.773,0.797,0.741,0.765,0.786,0.772,(-0.4059)+(0.0040)Gln+(-0.0079)Ala+(0.0129)Pro+(-0.0262)Tyr+(-0.2831)Met+(0.0966)Phe;0.747,0.791,0.713,0.697,0.669,0.829,0.762,0.739,(-0.6215)+(0.0354)Ser+(-0.0109)Ala+(-0.0186)Arg+(0.0111)Orn+(-0.0229)Lys+(0.0636)Ile;0.747,0.786,0.773,0.780,0.744,0.828,0.776,0.782,(2.3022)+(-0.0986)Asn+(0.0055)Gln+(-0.0300)Arg+(0.0141)Orn+(0.1520)Ile+(-0.0904)Leu;0.747,0.803,0.747,0.738,0.733,0.845,0.730,0.761,(0.4755)+(0.0411)

Ser+(0.0217)Tyr+(-0.0408)Val+(-0.3139)Met+(-0.0045)Lys+(0.0765)Leu;0.747,0.789,0.753,0.729,0.781,0.751,0.761,0.755,(0.8714)+(-0.0726)Cit+(0.0041)Arg+(0.0026)Pro+(-0.3278)Met+(0.0424)Ile+(0.0722)Phe;0.747,0.788,0.753,0.748,0.726,0.820,0.774,0.767,(3.4576)+(0.0481)Ser+(-0.1634)Asn+(-0.0045)Gly+(-0.0411)Cit+(-0.0399)Val+(0.0614)Leu;0.747,0.786,0.755,0.770,0.746,0.773,0.720,0.752,(0.0304)+(0.0522)Ser+(-0.1634)Asn+(-0.0050)Gly+(-0.0207)Arg+(-0.0198)Leu+(0.0775)Phe;0.747,0.781,0.757,0.795,0.727,0.744,0.730,0.749,(3.5101)+(-0.1262)Asn+(0.0074)Pro+(-0.0597)Tyr+(-0.0219)Val+(0.0356)Orn+(0.0938)Phe;0.747,0.795,0.705,0.682,0.714,0.782,0.695,0.718,(0.4425)+(0.0446)Ser+(-0.1482)Asn+(-0.0056)Thr+(-0.0760)Cit+(-0.0007)Pro+(0.0392)Ile;0.747,0.791,0.704,0.674,0.690,0.780,0.756,0.725,(-1.0346)+(0.0565)Ser+(-0.1479)Asn+(-0.0054)Gly+(-0.0225)Lys+(0.0334)Ile+(0.0460)Phe;0.747,0.784,0.759,0.757,0.741,0.815,0.760,0.768,(3.5693)+(0.0094)Pro+(-0.0014)Tyr+(-0.0425)Val+(-0.2680)Met+(0.0314)Orn+(0.0618)Leu;0.747,0.792,0.742,0.757,0.717,0.826,0.696,0.749,(0.5689)+(0.0376)Ser+(0.0003)Gln+(-0.0070)Ala+(0.0158)Pro+(-0.2484)Met+(-0.0030)Lys;0.747,0.792,0.768,0.771,0.764,0.806,0.743,0.771,(1.1442)+(0.0536)Ser+(-0.0746)Asn+(-0.0064)Gly+(-0.1978)Met+(-0.0034)Lys+(0.0093)Leu;0.747,0.786,0.751,0.751,0.749,0.842,0.692,0.759,(1.7957)+(0.0256)Ser+(-0.0093)Thr+(-0.0089)Ala+(-0.1186)Cit+(-0.0293)Tyr+(0.0557)Orn;0.747,0.787,0.778,0.781,0.766,0.779,0.796,0.780,(1.3592)+(-0.0338)Asn+(-0.0085)Ala+(0.0116)Pro+(-0.2513)Met+(0.0136)Orn+(0.0826)Phe;0.747,0.792,0.780,0.809,0.774,0.830,0.678,0.773,(0.6820)+(0.0398)Ser+(-0.0936)Asn+(0.0040)Gln+(-0.0104)Arg+(-0.0004)Tyr+(-0.1748)Met;0.747,0.790,0.770,0.738,0.744,0.850,0.855,0.797,(3.6077)+(-0.0146)Ala+(-0.1013)Cit+(0.0113)Arg+(0.0075)Pro+(-0.0194)Lys+(0.0688)Ile;0.747,0.790,0.743,0.752,0.749,0.807,0.656,0.741,(0.7839)+(0.0435)Ser+(-0.0849)Asn+(-0.1934)Met+(0.0204)Orn+(-0.0053)Lys+(0.0069)Leu;0.747,0.790

,0.742,0.723,0.774,0.780,0.69
9,0.744,(3.0369)+(-0.0294)Asn+(0.0259)Thr+(-0.0798)Cit+(0.0014)Pro+(-0.3099)Met+(0.0532)Ile;0.747,0.787,0.771,0.782,0.755,0.769,0.779,0.771,(0.7784)+(-0.0081)Ala+(0.0128)Pro+(-0.2796)Met+(0.0149)Orn+(-0.0104)Leu+(0.0933)Phe;0.747,0.781,0.764,0.753,0.768,0.796,0.760,0.769,(7.4246)+(-0.0192)Asn+(-0.1116)His+(-0.0250)Cit+(-0.0112)Tyr+(0.0011)Val+(0.0066)Lys;0.747,0.793,0.712,0.694,0.648,0.823,0.816,0.745,(-2.0593)+(0.0402)Ser+(-0.0120)Thr+(-0.0116)Ala+(-0.0252)Lys+(0.0636)Ile+(0.0322)Phe;0.747,0.790,0.768,0.755,0.773,0.812,0.760,0.775,(7.2973)+(-0.1001)His+(-0.0280)Cit+(0.0038)Arg+(0.0084)Pro+(-0.0025)Tyr+(-0.0846)Met;0.747,0.790,0.728,0.747,0.730,0.789,0.631,0.725,(2.8061)+(0.0400)Ser+(-0.1242)Asn+(-0.0655)Cit+(-0.0047)Arg+(0.0085)Pro+(-0.0371)Tyr;0.747,0.786,0.770,0.768,0.791,0.803,0.711,0.768,(3.8181)+(-0.1577)Asn+(0.0121)Thr+(-0.0948)Cit+(-0.0229)Val+(0.0541)Orn+(0.0777)Phe;0.747,0.786,0.782,0.773,0.753,0.828,0.836,0.797,(3.1801)+(-0.0047)Asn+(-0.0075)Ala+(-0.0044)Tyr+(-0.1941)Met+(-0.0083)Lys+(0.0697)Ile;0.747,0.778,0.748,0.742,0.754,0.802,0.713,0.753,(6.7783)+(0.0036)Gly+(-0.1173)His+(-0.0262)Cit+(-0.0049)Arg+(-0.0072)Tyr+(0.0064)Lys;0.747,0.789,0.725,0.697,0.691,0.834,0.792,0.753,(-0.2726)+(0.0322)Ser+(-0.0017)Gly+(-0.0012)Gln+(-0.0149)Ala+(-0.0975)Cit+(0.0646)Ile;0.747,0.782,0.789,0.774,0.804,0.854,0.747,0.795,(5.5099)+(-0.0645)Asn+(-0.0084)Ala+(-0.1163)Cit+(0.0641)Orn+(-0.0104)Lys+(0.0018)Leu;0.747,0.794,0.696,0.672,0.641,0.817,0.784,0.729,(-1.2025)+(0.0395)Ser+(-0.0029)Gln+(-0.0119)Ala+(-0.0274)Lys+(0.0621)Ile+(0.0341)Phe;0.747,0.789,0.729,0.744,0.730,0.789,0.646,0.727,(1.1201)+(0.0445)Ser+(-0.0810)Asn+(0.0103)Pro+(-0.0080)Tyr+(-0.2090)Met+(-0.0010)Lys;0.747,0.784,0.740,0.728,0.757,0.800,0.696,0.745,(4.7528)+(-0.0612)Asn+(-0.1040)Cit+(-0.0451)Tyr+(0.0527)Orn+(-0.0163)Lys+(0.0381)Ile;0.747,0.786,0.788,0.804,0.771,0.849,0.736,

0.790,(2.1026)+(0.0337)Ser+(-0.1438)Asn+(0.0046)Gln+(0.0027)Thr+(-0.0059)Ala+(-0.0789)Cit;0.747,0.783,0.746,0.721,0.771,0.806,0.713,0.753,(3.8319)+(-0.0951)Cit+(-0.0187)Tyr+(-0.1795)Met+(0.0428)Orn+(-0.0141)Lys+(0.0511)Ile;0.747,0.792,0.699,0.684,0.697,0.779,0.686,0.712,(-1.2474)+(0.0509)Ser+(-0.1446)Asn+(-0.0156)Arg+(-0.0190)Lys+(0.0348)Ile+(0.0495)Phe;0.747,0.790,0.776,0.787,0.752,0.854,0.742,0.784,(1.1377)+(0.0417)Ser+(-0.0077)Gly+(-0.0024)Ala+(-0.0059)Val+(-0.2236)Met+(0.0260)Orn;0.747,0.790,0.768,0.775,0.757,0.844,0.721,0.774,(2.6955)+(0.0389)Ser+(-0.1211)Asn+(-0.0065)Ala+(-0.0738)Cit+(0.0005)Arg+(0.0072)Leu;0.747,0.788,0.724,0.731,0.681,0.775,0.761,0.737,(0.4052)+(0.0485)Ser+(-0.1463)Asn+(-0.0069)Gly+(0.0021)Gln+(-0.0528)Tyr+(0.0388)Ile;0.747,0.788,0.785,0.793,0.755,0.860,0.774,0.796,(3.1347)+(0.0433)Ser+(-0.1464)Asn+(-0.0067)Gly+(-0.0038)Ala+(-0.0122)Val+(0.0314)Orn;0.747,0.785,0.753,0.781,0.745,0.777,0.678,0.745,(-0.9157)+(0.0440)Ser+(-0.1772)Asn+(0.0027)Gln+(-0.0229)Arg+(-0.0197)Leu+(0.0785)Phe;0.747,0.784,0.720,0.734,0.675,0.770,0.742,0.730,(2.4758)+(0.0006)Gln+(-0.0534)Tyr+(0.0143)Orn+(-0.0106)Lys+(0.1498)Ile+(-0.0795)Leu;0.747,0.783,0.767,0.795,0.754,0.761,0.722,0.758,(0.8582)+(0.0007)Gly+(-0.0251)Tyr+(-0.0162)Val+(-0.2520)Met+(0.0281)Orn+(0.1142)Phe;0.747,0.787,0.779,0.779,0.777,0.754,0.802,0.778,(-1.2672)+(-0.0438)Asn+(0.0058)Gln+(-0.3392)Met+(-0.0041)Orn+(0.0393)Ile+(0.0699)Phe;0.747,0.791,0.771,0.781,0.760,0.834,0.724,0.775,(1.0349)+(0.0449)Ser+(-0.0073)Gly+(-0.0033)Ala+(-0.0155)Arg+(-0.2182)Met+(0.0250)Orn;0.747,0.787,0.750,0.775,0.754,0.838,0.612,0.745,(0.9765)+(0.0324)Ser+(0.0090)Thr+(-0.0037)Ala+(-0.0181)Arg+(-0.2378)Met+(0.0204)Orn;0.747,0.789,0.761,0.759,0.724,0.828,0.793,0.776,(3.3292)+(0.0507)Ser+(-0.1616)Asn+(-0.0061)Gly+(-0.0095)Arg+(-0.0433)Val+(0.0648)Leu;0.747,0.787,0.770,0.791,0.742,0.856,0.713,0.775,(2.7569)+(0.0348)Ser+(-0.1463)Asn+(-0.0011)Thr+(-0.0039)Ala+(-0.0116)V

al+(0.0315)Orn;0.747,0.791,0.742,0.761,0.741,0.784,0.663,0.737,(-0.3000)+(0.0474)Ser+(-0.1558)Asn+(-0.0178)Arg+(-0.0080)Lys+(-0.0150)Leu+(0.0810)Phe;0.747,0.787,0.730,0.733,0.743,0.775,0.664,0.729,(4.2656)+(-0.1047)Asn+(0.0114)Thr+(-0.1025)Cit+(-0.0588)Tyr+(0.0417)Orn+(0.0290)Ile;0.747,0.794,0.755,0.758,0.797,0.760,0.655,0.742,(1.9433)+(-0.0447)Asn+(0.0350)Thr+(-0.0786)Cit+(-0.3192)Met+(-0.0102)Lys+(0.1058)Phe;0.747,0.786,0.771,0.784,0.773,0.755,0.747,0.765,(-0.9985)+(0.0013)Gly+(0.0046)Gln+(0.0070)Pro+(-0.3425)Met+(-0.0098)Lys+(0.0931)Phe;0.747,0.785,0.770,0.762,0.775,0.839,0.728,0.776,(4.5370)+(-0.0101)Ala+(-0.1076)Cit+(0.0137)Pro+(-0.0171)Tyr+(-0.1404)Met+(0.0527)Orn;0.747,0.781,0.780,0.770,0.777,0.826,0.780,0.788,(7.7992)+(-0.0136)Asn+(-0.1020)His+(-0.0024)Ala+(-0.0300)Cit+(0.0032)Arg+(0.0010)Tyr;0.747,0.793,0.769,0.795,0.768,0.814,0.673,0.762,(0.2371)+(0.0416)Ser+(-0.0906)Asn+(0.0037)Gln+(-0.0099)Arg+(-0.1970)Met+(0.0067)Leu;0.747,0.786,0.767,0.789,0.754,0.745,0.749,0.759,(-0.5690)+(0.0049)Gln+(0.0081)Pro+(-0.0313)Tyr+(-0.3010)Met+(-0.0094)Lys+(0.1000)Phe;0.747,0.784,0.782,0.768,0.785,0.829,0.779,0.790,(7.6802)+(-0.1050)His+(-0.0027)Ala+(-0.0299)Cit+(0.0055)Tyr+(0.0048)Val+(-0.0479)Met;0.747,0.791,0.710,0.694,0.663,0.831,0.764,0.738,(-0.3442)+(0.0380)Ser+(-0.0013)Gln+(-0.0108)Ala+(-0.0161)Arg+(-0.0213)Lys+(0.0675)Ile;0.747,0.787,0.781,0.772,0.774,0.823,0.786,0.789,(7.4932)+(0.0006)Asn+(-0.1070)His+(-0.0015)Ala+(-0.0005)Arg+(0.0071)Tyr+(-0.0504)Met;0.747,0.792,0.690,0.663,0.635,0.816,0.788,0.725,(-0.2157)+(0.0378)Ser+(-0.0027)Gln+(-0.0126)Ala+(0.0061)Pro+(-0.0250)Lys+(0.0631)Ile;0.747,0.790,0.743,0.728,0.772,0.795,0.688,0.746,(1.0420)+(0.0040)Gln+(0.0192)Thr+(-0.0984)Cit+(-0.3479)Met+(0.0167)Orn+(0.0526)Ile;0.747,0.788,0.762,0.791,0.754,0.812,0.662,0.755,(2.0361)+(0.0339)Ser+(-0.1515)Asn+(0.0049)Gln+(0.0036)Thr+(-0.0754)Cit+(-0.0305)Tyr;0.747,0.788,0.782,0.778,0.764,0.837,0.793,0.793,(5.0827)+(-

0.0822)Asn+(-0.0461)Val+(-0.1603)Met+(0.0417)Orn+(0.0000)Lys+(0.0687)Leu;0.747,0.780,0.778,0.773,0.789,0.847,0.715,0.781,(4.6956)+(-0.0896)Asn+(0.0040)Gly+(-0.0088)Ala+(-0.1197)Cit+(0.0593)Orn+(-0.0015)Leu;0.747,0.789,0.778,0.793,0.770,0.814,0.726,0.776,(1.8527)+(0.0519)Ser+(-0.0764)Asn+(-0.0066)Gly+(-0.0073)Arg+(-0.1731)Met+(0.0003)Lys;0.746,0.786,0.774,0.779,0.803,0.836,0.659,0.769,(5.6009)+(-0.0813)Asn+(0.0177)Thr+(-0.0952)Cit+(-0.0116)Val+(-0.1474)Met+(0.0535)Orn;0.746,0.777,0.770,0.760,0.767,0.815,0.770,0.778,(7.3837)+(-0.1106)His+(-0.0026)Ala+(-0.0247)Cit+(-0.0030)Arg+(-0.0051)Tyr+(0.0071)Lys;0.746,0.784,0.731,0.730,0.736,0.714,0.736,0.729,(-2.2389)+(0.0038)Gln+(0.0230)Thr+(-0.4564)Met+(-0.0179)Orn+(0.0472)Ile+(0.0812)Phe;0.746,0.783,0.713,0.701,0.641,0.791,0.836,0.742,(0.6027)+(-0.0075)Thr+(-0.0062)Pro+(-0.0567)Val+(0.0143)Orn+(0.1523)Ile+(0.0209)Phe;0.746,0.792,0.745,0.760,0.748,0.805,0.655,0.742,(0.8617)+(0.0427)Ser+(-0.0920)Asn+(-0.0075)Tyr+(-0.1897)Met+(0.0195)Orn+(0.0047)Leu;0.746,0.789,0.750,0.761,0.756,0.812,0.665,0.749,(0.8814)+(0.0448)Ser+(-0.0081)Gly+(0.0105)Thr+(-0.0182)Arg+(-0.2756)Met+(0.0187)Orn;0.746,0.784,0.741,0.758,0.686,0.778,0.783,0.751,(2.6726)+(-0.0035)Gly+(0.0021)Gln+(-0.0540)Tyr+(-0.0084)Lys+(0.1533)Ile+(-0.0809)Leu;0.746,0.784,0.786,0.790,0.752,0.829,0.815,0.797,(0.9321)+(0.0015)Gly+(0.0045)Gln+(-0.0078)Ala+(-0.0128)Arg+(-0.2463)Met+(0.0658)Ile;0.746,0.789,0.762,0.754,0.773,0.819,0.719,0.766,(6.6593)+(0.0047)Gly+(-0.1111)His+(-0.0305)Cit+(0.0096)Tyr+(-0.1037)Met+(0.0093)Lys;0.746,0.787,0.782,0.798,0.785,0.760,0.751,0.773,(-0.8243)+(0.0057)Gln+(-0.0127)Arg+(0.0069)Pro+(-0.3325)Met+(-0.0074)Lys+(0.0914)Phe;0.746,0.782,0.761,0.761,0.730,0.814,0.789,0.774,(0.8122)+(0.0003)Gly+(0.0028)Gln+(0.0156)Thr+(-0.0081)Ala+(-0.3055)Met+(0.0654)Ile;0.746,0.780,0.756,0.736,0.765,0.796,0.761,0.764,(7.0575)+(-0.0228)Asn+(-0.1136)His+(-0.0246)Cit+(-0.0023)Arg+(0.0053)Pro+(0.0050)Lys;0.74

6,0.789,0.771,0.785,0.754,0.839,0.717,0.774,(1.0008)+(0.0422)Ser+(-0.0075)Gly+(0.0108)Thr+(-0.0026)Ala+(-0.0017)Tyr+(-0.2585)Met;0.746,0.786,0.755,0.766,0.709,0.823,0.774,0.768,(2.6042)+(0.0469)Ser+(-0.1213)Asn+(-0.0070)Gly+(-0.0077)Ala+(0.0134)Pro+(-0.0345)Tyr;0.746,0.780,0.792,0.789,0.796,0.854,0.745,0.796,(5.8549)+(-0.0896)Asn+(-0.0064)Ala+(-0.1073)Cit+(0.0009)Arg+(-0.0099)Val+(0.0649)Orn;0.746,0.794,0.725,0.715,0.730,0.792,0.694,0.733,(-0.1488)+(0.0405)Ser+(-0.1690)Asn+(0.0041)Gln+(-0.0786)Cit+(-0.0095)Arg+(0.0357)Ile;0.746,0.790,0.790,0.787,0.746,0.862,0.839,0.809,(2.4668)+(0.0053)Gln+(-0.0114)Ala+(-0.0952)Cit+(-0.0277)Tyr+(-0.0176)Lys+(0.0737)Ile;0.746,0.793,0.762,0.741,0.743,0.863,0.785,0.783,(2.9735)+(0.0044)Gly+(0.0092)Thr+(-0.0130)Ala+(-0.1037)Cit+(-0.0202)Lys+(0.0754)Ile;0.746,0.792,0.768,0.759,0.778,0.832,0.724,0.773,(7.0166)+(0.0046)Gly+(-0.1058)His+(-0.0344)Cit+(0.0033)Arg+(0.0130)Tyr+(-0.0783)Met;0.746,0.784,0.788,0.788,0.758,0.831,0.819,0.799,(1.0689)+(0.0046)Gln+(-0.0078)Ala+(-0.0137)Arg+(-0.2430)Met+(0.0074)Orn+(0.0620)Ile;0.746,0.783,0.769,0.775,0.726,0.845,0.788,0.784,(3.2710)+(0.0467)Ser+(-0.1391)Asn+(-0.0066)Gly+(-0.0071)Ala+(0.0148)Pro+(-0.0122)Val;0.746,0.793,0.701,0.682,0.637,0.815,0.803,0.734,(-1.7550)+(0.0352)Ser+(-0.0132)Ala+(0.0050)Pro+(-0.0291)Lys+(0.0566)Ile+(0.0298)Phe;0.746,0.792,0.693,0.673,0.651,0.803,0.755,0.720,(-0.5321)+(0.0376)Ser+(-0.0014)Gln+(-0.0202)Thr+(-0.0134)Lys+(0.1584)Ile+(-0.0815)Leu;0.746,0.783,0.714,0.733,0.673,0.789,0.691,0.722,(-0.5199)+(0.0293)Ser+(-0.0118)Ala+(-0.0915)Cit+(0.0128)Pro+(-0.0606)Tyr+(0.0735)Phe;0.746,0.796,0.726,0.713,0.724,0.792,0.718,0.737,(-0.3814)+(0.0423)Ser+(-0.1665)Asn+(0.0040)Gln+(-0.0071)Thr+(-0.0826)Cit+(0.0367)Ile;0.746,0.789,0.702,0.700,0.734,0.816,0.555,0.701,(2.0259)+(0.0273)Ser+(-0.1135)Cit+(0.0048)Pro+(-0.0467)Tyr+(0.0538)Orn+(-0.0214)Lys;0.746,0.789,0.747,0.770,0.709,0.829,0.705,0.754,(2.4301)+(0.0392)Ser+(-0.1133)

Asn+(-0.0076)Ala+(-0.0137)Arg+(0.0138)Pro+(-0.0282)Tyr;0.746,0.786,0.780,0.796,0.780,0.842,0.688,0.777,(1.1998)+(0.0325)Ser+(0.0030)Gln+(-0.0037)Ala+(-0.0749)Cit+(0.0010)Val+(-0.2081)Met;0.746,0.786,0.771,0.776,0.727,0.821,0.818,0.785,(2.0984)+(-0.1225)Asn+(0.0041)Gln+(-0.0052)Pro+(0.0087)Orn+(0.1476)Ile+(-0.0844)Leu;0.746,0.800,0.748,0.751,0.732,0.838,0.709,0.757,(1.0202)+(0.0398)Ser+(-0.0068)Arg+(-0.0372)Val+(-0.2697)Met+(-0.0022)Lys+(0.0707)Leu;0.746,0.795,0.745,0.753,0.727,0.823,0.707,0.753,(0.9577)+(0.0459)Ser+(-0.0084)Gly+(0.0123)Pro+(-0.0106)Val+(-0.2788)Met+(0.0209)Orn;0.746,0.779,0.785,0.816,0.774,0.760,0.741,0.773,(2.1439)+(-0.0631)

Asn+(0.0031)Gly+(-0.0212)Tyr+(-0.0146)Val+(-0.1892)Met+(0.1206)Phe;0.746,0.788,0.719,0.698,0.765,0.790,0.631,0.721,(1.9141)+(0.0038)Gly+(0.0198)Thr+(-0.1016)Cit+(-0.3345)Met+(0.0209)Orn+(0.0542)Ile;0.746,0.776,0.733,0.704,0.719,0.829,0.765,0.754,(1.2481)+(0.0040)Gly+(-0.0172)Ala+(-0.1335)Cit+(0.0065)Pro+(0.0382)Orn+(0.0486)Ile;0.746,0.790,0.701,0.714,0.684,0.774,0.649,0.705,(0.6032)+(0.0422)Ser+(-0.1307)Asn+(-0.0182)Arg+(-0.0477)Tyr+(0.0144)Orn+(0.0404)Ile;0.746,0.790,0.758,0.759,0.714,0.822,0.799,0.774,(3.4190)+(0.0500)Ser+(-0.1606)Asn+(-0.0067)Gly+(-0.0179)Tyr+(-0.0416)Val+(0.0647)Leu;0.746,0.788,0.733,0.752,0.752,0.761,0.622,0.722,(2.6278)+(-0.1132)Asn+(0.0048)Gly+(-0.1080)Cit+(-0.0636)Tyr+(0.0483)Orn+(0.0717)Phe;0.746,0.785,0.783,0.775,0.786,0.847,0.754,0.790,(3.0083)+(0.0038)Gln+(-0.0104)Ala+(-0.1108)Cit+(0.0131)Pro+(-0.1865)Met+(0.0463)Orn;0.746,0.783,0.760,0.780,0.737,0.760,0.758,0.759,(0.6827)+(0.0025)Gly+(-0.0081)Ala+(0.0136)Pro+(-0.0233)Tyr+(-0.2687)Met+(0.0985)Phe;0.746,0.788,0.715,0.717,0.751,0.825,0.555,0.712,(2.2026)+(0.0269)Ser+(-0.1121)Cit+(-0.0035)Arg+(-0.0406)Tyr+(0.0562)Orn+(-0.0200)Lys;0.746,0.786,0.780,0.792,0.742,0.831,0.789,0.788,(2.2550)+(-0.0968)Asn+(0.0061)Gln+(-0.0280)Arg+(-0.0001)Lys+(0.1543)Ile

+(-0.0893)Leu;0.746,0.784,0.778,0.771,0.776,0.821,0.773,0.785,(7.4305)+(-0.1064)His+(-0.0018)Ala+(-0.0241)Cit+(-0.0015)Arg+(-0.0677)Met+(0.0099)Lys;0.746,0.781,0.720,0.695,0.721,0.841,0.694,0.738,(1.4570)+(0.0259)Ser+(-0.0027)Gln+(-0.0146)Ala+(-0.1235)Cit+(0.0113)Pro+(0.0454)Orn;0.746,0.791,0.715,0.735,0.721,0.706,0.651,0.704,(0.4272)+(0.0287)Thr+(0.0080)Pro+(-0.0425)Tyr+(-0.3446)Met+(-0.0125)Lys+(0.1146)Phe;0.746,0.790,0.758,0.786,0.739,0.828,0.670,0.756,(2.3039)+(0.0369)Ser+(-0.1206)Asn+(-0.0048)Ala+(-0.0150)Arg+(-0.0260)Tyr+(0.0283)Orn;0.746,0.786,0.735,0.757,0.734,0.765,0.655,0.728,(-0.3952)+(0.0464)Ser+(-0.1688)Asn+(-0.0228)Arg+(0.0050)Pro+(-0.0222)Leu+(0.0789)Phe;0.746,0.785,0.761,0.783,0.726,0.846,0.715,0.768,(3.1254)+(0.0392)Ser+(-0.1269)Asn+(-0.0067)Ala+(-0.0134)Arg+(0.0148)Pro+(-0.0113)Val;0.746,0.789,0.726,0.738,0.726,0.787,0.649,0.725,(0.8052)+(0.0453)Ser+(-0.0809)Asn+(0.0098)Pro+(-0.0088)Tyr+(-0.2213)Met+(0.0040)Leu;0.746,0.787,0.765,0.744,0.776,0.803,0.772,0.774,(7.0794)+(-0.1156)His+(-0.0252)Cit+(-0.0006)Tyr+(-0.1002)Met+(0.0062)Lys+(0.0163)Leu;0.746,0.781,0.812,0.843,0.795,0.791,0.779,0.802,(-0.3744)+(0.0059)Gln+(-0.0027)Ala+(-0.0139)Arg+(-0.0124)Val+(-0.2789)Met+(0.1127)Phe;0.746,0.789,0.728,0.737,0.731,0.790,0.653,0.728,(0.6645)+(0.0461)Ser+(-0.0770)Asn+(0.0093)Pro+(-0.2307)Met+(-0.0027)Lys+(0.0051)Leu;0.746,0.787,0.778,0.791,0.742,0.831,0.783,0.787,(2.2978)+(-0.1011)Asn+(0.0060)Gln+(0.0029)Thr+(-0.0291)Arg+(0.1535)Ile+(-0.0892)Leu;0.746,0.788,0.783,0.764,0.753,0.865,0.835,0.804,(2.2384)+(0.0041)Gln+(0.0078)Thr+(-0.0133)Ala+(-0.1029)Cit+(-0.0221)Lys+(0.0732)Ile;0.746,0.793,0.716,0.688,0.661,0.828,0.821,0.750,(-0.1609)+(0.0452)Ser+(-0.0067)Gly+(-0.0014)Gln+(-0.0111)Ala+(-0.0256)Lys+(0.0663)Ile;0.746,0.791,0.767,0.774,0.761,0.799,0.738,0.768,(1.2195)+(0.0531)Ser+(-0.0789)Asn+(-0.0065)Gly+(-0.0061)Tyr+(-0.1938)Met+(0.0079)Leu;0.746,0.788,0.730,0.705,0.726,0.835,0.726,0.748,(2.2723)+(0

.0018)Gln+(-0.1136)Cit+(0.0402)Orn+(-0.0187)Lys+(0.1452)Ile+(-0.0790)Leu;0.746,0.787,0.788,0.799,0.783,0.836,0.737,0.789,(1.2601)+(0.0395)Ser+(-0.0056)Gly+(0.0034)Gln+(-0.0032)Ala+(-0.0678)Cit+(-0.2123)Met;0.746,0.783,0.782,0.787,0.770,0.849,0.748,0.788,(3.4138)+(0.0440)Ser+(-0.1073)Asn+(-0.0043)Gly+(-0.0050)Ala+(-0.0631)Cit+(-0.0053)Lys;0.746,0.782,0.788,0.791,0.793,0.857,0.723,0.791,(5.9195)+(-0.1063)Asn+(0.0102)Thr+(-0.0066)Ala+(-0.1083)Cit+(-0.0106)Val+(0.0617)Orn;0.746,0.782,0.802,0.815,0.807,0.785,0.771,0.794,(-0.2467)+(-0.0604)Asn+(0.0090)Gln+(-0.0791)Cit+(-0.2500)Met+(-0.0071)Lys+(0.0968)Phe;0.746,0.787,0.788,0.767,0.753,0.867,0.862,0.812,(2.1740)+(0.0044)Gln+(-0.0132)Ala+(-0.1062)Cit+(0.0086)Arg+(-0.0220)Lys+(0.0749)Ile;0.746,0.788,0.718,0.717,0.752,0.824,0.576,0.717,(2.0535)+(0.0286)Ser+(-0.0051)Thr+(-0.1143)Cit+(-0.0382)Tyr+(0.0577)Orn+(-0.0196)Lys;0.746,0.785,0.741,0.743,0.742,0.842,0.662,0.747,(2.2116)+(0.0227)Ser+(-0.0011)Gln+(-0.0092)Ala+(-0.1196)Cit+(-0.0342)Tyr+(0.0539)Orn;0.746,0.788,0.724,0.736,0.679,0.775,0.748,0.734,(2.6991)+(-0.0030)Pro+(-0.0510)Tyr+(0.0167)Orn+(-0.0104)Lys+(0.1548)Ile+(-0.0804)Leu;0.746,0.784,0.771,0.799,0.755,0.740,0.755,0.762,(2.6268)+(-0.0545)Asn+(0.0115)Pro+(-0.0289)Tyr+(-0.0169)Val+(-0.2137)Met+(0.1170)Phe;0.746,0.789,0.734,0.738,0.733,0.797,0.678,0.737,(0.3234)+(0.0502)Ser+(-0.0076)Gly+(-0.0166)Arg+(0.0099)Pro+(-0.2865)Met+(0.0165)Orn;0.746,0.789,0.727,0.730,0.763,0.801,0.592,0.721,(0.8598)+(0.0365)Ser+(0.0130)Thr+(-0.0751)Cit+(0.0019)Tyr+(-0.3121)Met+(0.0131)Leu;0.746,0.779,0.718,0.705,0.649,0.794,0.839,0.747,(1.6010)+(-0.0025)Gly+(-0.0057)Thr+(-0.0053)Pro+(-0.0561)Val+(0.0176)Orn+(0.1542)Ile;0.746,0.792,0.738,0.737,0.721,0.820,0.715,0.748,(3.5233)+(0.0396)Ser+(-0.1820)Asn+(0.0103)Thr+(-0.0507)Cit+(-0.0422)Val+(0.0647)Leu;0.746,0.789,0.759,0.759,0.740,0.829,0.744,0.768,(0.0233)+(0.0457)Ser+(-0.0070)Gly+(-0.0038)Ala+(-0.2566)Met+(0.0178)Orn+(0.0088)Leu;0

.746,0.786,0.776,0.794,0.763,0.850,0.703,0.777,(3.4333)+(0.0378)Ser+(-0.1186)Asn+(-0.0045)Ala+(-0.0643)Cit+(-0.0006)Arg+(-0.0037)Val;0.746,0.785,0.772,0.757,0.784,0.838,0.742,0.780,(4.2739)+(-0.0105)Ala+(-0.1079)Cit+(0.0131)Pro+(-0.1647)Met+(0.0505)Orn+(0.0008)Leu;0.746,0.784,0.730,0.733,0.702,0.819,0.719,0.743,(3.0005)+(0.0440)Ser+(-0.1732)Asn+(-0.0117)Arg+(0.0091)Pro+(-0.0454)Val+(0.0624)Leu;0.746,0.789,0.769,0.787,0.764,0.832,0.687,0.768,(1.5617)+(0.0427)Ser+(-0.0074)Gly+(0.0147)Thr+(-0.0025)Ala+(-0.0158)Arg+(-0.2513)Met;0.746,0.786,0.763,0.810,0.753,0.742,0.676,0.745,(3.8281)+(-0.1409)Asn+(0.0294)Thr+(-0.0180)Arg+(-0.0650)Tyr+(-0.0195)Val+(0.1168)Phe;0.746,0.780,0.773,0.768,0.786,0.847,0.706,0.777,(4.6527)+(-0.1012)Asn+(0.0037)Gly+(0.0071)Thr+(-0.0093)Ala+(-0.1210)Cit+(0.0561)Orn;0.746,0.780,0.777,0.799,0.768,0.737,0.769,0.768,(2.1221)+(-0.0581)Asn+(0.0111)Pro+(-0.0194)Val+(-0.2603)Met+(0.0048)Lys+(0.1113)Phe;0.746,0.791,0.763,0.743,0.768,0.798,0.778,0.772,(6.8357)+(-0.1213)His+(-0.0005)Arg+(-0.0014)Tyr+(-0.1022)Met+(0.0066)Lys+(0.0160)Leu;0.746,0.787,0.782,0.800,0.782,0.848,0.687,0.779,(1.4026)+(0.0322)Ser+(0.0032)Gln+(-0.0034)Ala+(-0.0738)Cit+(-0.1955)Met+(-0.0027)Lys;0.746,0.792,0.757,0.765,0.707,0.848,0.772,0.773,(3.0310)+(0.0408)Ser+(-0.1603)Asn+(-0.0034)Ala+(-0.0076)Tyr+(-0.0411)Val+(0.0683)Leu;0.746,0.790,0.778,0.803,0.770,0.842,0.686,0.775,(2.1327)+(0.0406)Ser+(-0.0944)Asn+(0.0049)Tyr+(-0.0064)Val+(-0.1616)Met+(0.0029)Lys;0.746,0.782,0.784,0.791,0.774,0.773,0.794,0.783,(1.6528)+(-0.0245)Asn+(-0.0082)Ala+(-0.0064)Arg+(0.0124)Pro+(-0.2478)Met+(0.0881)Phe;0.746,0.781,0.780,0.774,0.755,0.849,0.801,0.795,(3.8006)+(-0.0036)Ala+(-0.0392)Val+(-0.2085)Met+(0.0376)Orn+(-0.0039)Lys+(0.0654)Leu;0.746,0.796,0.733,0.720,0.757,0.792,0.674,0.736,(3.5924)+(0.0293)Thr+(-0.0798)Cit+(-0.0188)Tyr+(-0.2768)Met+(-0.0129)Lys+(0.0659)Ile;0.746,0.791,0.768,0.784,0.727,0.845,0.754,0.778,(2.2517)+(0.0398)Ser+(-0.18

11)Asn+(0.0039)Gln+(-0.0132)Arg+(-0.0437)Val+(0.0653)Leu;0.746,0.789,0.717,0.731,0.704,0.763,0.675,0.718,(-0.2543)+(0.0453)Ser+(-0.0069)Gly+(-0.0753)Cit+(-0.0683)Tyr+(-0.0206)Lys+(0.0916)Phe;0.746,0.788,0.715,0.714,0.744,0.727,0.651,0.709,(-0.7041)+(0.0028)Gly+(0.0270)Thr+(-0.0223)Arg+(-0.4203)Met+(0.0428)Ile+(0.0816)Phe;0.746,0.784,0.786,0.797,0.796,0.834,0.702,0.782,(3.8540)+(-0.1022)Asn+(0.0066)Gln+(-0.1112)Cit+(-0.0398)Tyr+(0.0563)Orn+(-0.0119)Lys;0.746,0.782,0.741,0.734,0.754,0.734,0.739,0.740,(-0.1575)+(-0.0276)Asn+(0.0039)Gly+(0.0031)Pro+(-0.3400)Met+(0.0381)Ile+(0.0726)Phe;0.746,0.788,0.788,0.803,0.771,0.836,0.751,0.790,(2.5213)+(0.0495)Ser+(-0.0905)Asn+(-0.0067)Gly+(-0.0060)Val+(-0.1523)Met+(0.0021)Lys;0.746,0.780,0.816,0.833,0.801,0.797,0.817,0.812,(-0.0658)+(-0.0556)Asn+(0.0064)Gln+(-0.0047)Ala+(-0.2371)Met+(-0.0061)Lys+(0.0917)Phe;0.746,0.789,0.766,0.772,0.748,0.839,0.738,0.774,(0.9236)+(0.0442)Ser+(-0.0076)Gly+(-0.0031)Ala+(-0.2128)Met+(0.0252)Orn+(-0.0069)Lys;0.746,0.789,0.693,0.722,0.666,0.713,0.655,0.689,(-0.8189)+(0.0453)Ser+(-0.1742)Asn+(0.0046)Pro+(-0.0713)Tyr+(0.0104)Orn+(0.0825)Phe;0.746,0.785,0.728,0.701,0.690,0.831,0.801,0.756,(-1.4304)+(0.0307)Ser+(-0.0016)Gly+(-0.0159)Ala+(-0.1031)Cit+(0.0583)Ile+(0.0254)Phe;0.746,0.784,0.772,0.789,0.763,0.853,0.690,0.774,(3.6007)+(0.0357)Ser+(-0.1284)Asn+(0.0065)Thr+(-0.0047)Ala+(-0.0667)Cit+(-0.0045)Val;0.746,0.788,0.728,0.746,0.728,0.791,0.632,0.724,(2.8488)+(0.0394)Ser+(-0.1276)Asn+(-0.0686)Cit+(0.0086)Pro+(-0.0370)Tyr+(-0.0015)Leu;0.746,0.787,0.741,0.761,0.735,0.795,0.663,0.739,(0.4209)+(0.0423)Ser+(-0.0930)Asn+(0.0027)Gln+(0.0097)Pro+(-0.0088)Tyr+(-0.2155)Met;0.746,0.788,0.763,0.783,0.759,0.826,0.671,0.760,(0.5627)+(0.0398)Ser+(-0.0989)Asn+(0.0027)Gln+(-0.1828)Met+(0.0201)Orn+(-0.0040)Lys;0.746,0.781,0.802,0.835,0.780,0.781,0.778,0.793,(-0.6253)+(0.0013)Gly+(0.0045)Gln+(-0.0029)Ala+(-0.0126)Val+(-0.2933)Met+(0.1133)Phe;0.746,0.786,0.77

1,0.785,0.754,0.842,0.717,0.775,(1.2692)+(0.0424)Ser+(-0.0076)Gly+(0.0119)Thr+(-0.0025)Ala+(-0.2457)Met+(-0.0045)Lys;0.745,0.780,0.790,0.816,0.788,0.770,0.740,0.778,(1.9357)+(-0.0576)Asn+(0.0036)Gly+(-0.0050)Arg+(-0.0150)Val+(-0.2180)Met+(0.1162)Phe;0.745,0.784,0.754,0.758,0.766,0.752,0.718,0.748,(0.3970)+(0.0022)Gly+(0.0067)Pro+(-0.3161)Met+(0.0138)Orn+(-0.0100)Lys+(0.0887)Phe;0.745,0.780,0.767,0.755,0.771,0.804,0.762,0.773,(7.5125)+(-0.0115)Asn+(-0.1098)His+(-0.0285)Cit+(0.0027)Arg+(-0.0078)Tyr+(0.0027)Val;0.745,0.795,0.724,0.711,0.723,0.794,0.709,0.734,(-0.1784)+(0.0399)Ser+(-0.1763)Asn+(0.0038)Gln+(-0.0844)Cit+(-0.0019)Pro+(0.0377)Ile;0.745,0.781,0.720,0.703,0.705,0.798,0.738,0.736,(0.1416)+(-0.1147)Cit+(-0.0100)Pro+(0.0313)Orn+(0.1673)Ile+(-0.1019)Leu+(0.0475)Phe;0.745,0.788,0.746,0.770,0.739,0.794,0.664,0.742,(1.8640)+(0.0362)Ser+(-0.1484)Asn+(0.0045)Gln+(-0.0767)Cit+(0.0075)Pro+(-0.0388)Tyr;0.745,0.787,0.723,0.730,0.751,0.836,0.567,0.721,(2.5074)+(0.0246)Ser+(-0.1119)Cit+(-0.0378)Tyr+(-0.0049)Val+(0.0590)Orn+(-0.0184)Lys;0.745,0.784,0.742,0.754,0.753,0.732,0.694,0.733,(-1.1795)+(0.0038)Gln+(0.0221)Thr+(0.0060)Pro+(-0.3966)Met+(-0.0132)Lys+(0.1007)Phe;0.745,0.790,0.745,0.742,0.790,0.775,0.638,0.736,(1.1098)+(-0.0544)Asn+(0.0062)Gly+(-0.1012)Cit+
(-0.2435)Met+(0.0380)Orn+(0.0871)Phe;0.745,0.781,0.769,0.793,0.760,0.760,0.732,0.761,(-1.1665)+(0.0033)Gln+(0.0217)Thr+(-0.0052)Ala+(-0.3595)Met+(-0.0058)Leu+(0.1032)Phe;0.745,0.787,0.754,0.779,0.708,0.842,0.720,0.762,(3.2491)+(0.0373)Ser+(-0.1313)Asn+(-0.0066)Ala+(0.0157)Pro+(-0.0210)Tyr+(-0.0101)Val;0.745,0.787,0.713,0.713,0.748,0.824,0.559,0.711,(2.2153)+(0.0266)Ser+(-0.0001)Gln+(-0.1150)Cit+(-0.0408)Tyr+(0.0567)Orn+(-0.0208)Lys;0.745,0.787,0.696,0.667,0.683,0.810,0.716,0.719,(-0.4826)+(0.0244)Ser+(-0.0042)Gly+(-0.1050)Cit+(0.0242)Orn+(0.1512)Ile+(-0.0900)Leu;0.745,0.781,0.776,0.775,0.738,0.824,0.821,0.789,(0.8

108)+(0.0012)Gly+(0.0034)Gln+(-0.0080)Ala+(-0.2599)Met+(0.0030)Orn+(0.0649)Ile;0.745,0.790,0.735,0.727,0.761,0.789,0.665,0.735,(0.7868)+(0.0028)Gly+(0.0041)Gln+(0.0209)Thr+(-0.0919)Cit+(-0.3602)Met+(0.0601)Ile;0.745,0.787,0.743,0.760,0.739,0.799,0.668,0.742,(0.2948)+(0.0428)Ser+(-0.0903)Asn+(0.0028)Gln+(0.0093)Pro+(-0.2244)Met+(-0.0020)Lys;0.745,0.787,0.771,0.784,0.763,0.847,0.699,0.773,(3.1711)+(0.0367)Ser+(-0.1242)Asn+(0.0050)Thr+(-0.0058)Ala+(-0.0711)Cit+(-0.0015)Arg;0.745,0.786,0.725,0.723,0.692,0.821,0.733,0.742,(2.8572)+(0.0438)Ser+(-0.1751)Asn+(0.0086)Pro+(-0.0455)Val+(-0.0056)Lys+(0.0656)Leu;0.745,0.777,0.749,0.732,0.756,0.797,0.748,0.758,(6.8175)+(-0.1174)His+(-0.0224)Cit+(-0.0048)Arg+(0.0055)Pro+(-0.0013)Val+(0.0046)Lys;0.745,0.785,0.726,0.723,0.733,0.717,0.725,0.725,(-2.0389)+(0.0031)Gln+(0.0189)Thr+(0.0018)Pro+(-0.4434)Met+(0.0391)Ile+(0.0758)Phe;0.745,0.781,0.731,0.751,0.672,0.778,0.770,0.743,(1.9764)+(0.0012)Gln+(-0.0070)Thr+(-0.0019)Pro+(-0.0504)Tyr+(0.1617)Ile+(-0.0874)Leu;0.745,0.781,0.754,0.784,0.740,0.735,0.716,0.744,(1.0006)+(0.0022)Gly+(0.0118)Pro+(-0.0238)Tyr+(-0.0160)Val+(-0.2919)Met+(0.1197)Phe;0.745,0.787,0.773,0.791,0.747,0.833,0.739,0.778,(3.5348)+(0.0444)Ser+(-0.1405)Asn+(-0.0080)Gly+(-0.0305)Tyr+(-0.0122)Val+(0.0347)Orn;0.745,0.784,0.769,0.781,0.779,0.841,0.665,0.767,(2.0756)+(0.0362)Ser+(-0.0037)Ala+(-0.0703)Cit+(0.0019)Val+(-0.1859)Met+(-0.0023)Lys;0.745,0.784,0.767,0.782,0.774,0.747,0.723,0.757,(-0.5861)+(-0.0672)Asn+(0.0055)Gln+(0.0253)Thr+(-0.3339)Met+(-0.0110)Lys+(0.0973)Phe;0.745,0.780,0.807,0.836,0.786,0.782,0.792,0.799,(-0.4406)+(0.0049)Gln+(-0.0029)Ala+(-0.0121)Val+(-0.2868)Met+(-0.0018)Lys+(0.1116)Phe;0.745,0.787,0.773,0.800,0.765,0.829,0.678,0.768,(2.0878)+(0.0351)Ser+(-0.1370)Asn+(0.0054)Gln+(-0.0746)Cit+(-0.0232)Tyr+(-0.0064)Lys;0.745,0.785,0.778,0.770,0.779,0.817,0.772,0.784,(1.5983)+(0.0068)Gln+(-0.0780)Cit+(-0.0101)Tyr+(-0.2433)Met+(-0.0121)Lys+(0.0635)I

le;0.745,0.789,0.772,0.745,0.749,0.858,0.831,0.796,(3.4741)+(0.0096)Thr+(-0.0133)Ala+(-0.1039)Cit+(0.0097)Arg+(-0.0219)Lys+(0.0737)Ile;0.745,0.789,0.770,0.778,0.746,0.842,0.744,0.778,(0.3103)+(0.0432)Ser+(-0.0075)Gly+(0.0008)Gln+(-0.0033)Ala+(-0.2423)Met+(0.0202)Orn;0.745,0.786,0.770,0.759,0.769,0.806,0.774,0.777,(6.9832)+(-0.0017)Asn+(-0.1154)His+(0.0000)Tyr+(0.0013)Val+(-0.0851)Met+(0.0092)Lys;0.745,0.784,0.769,0.782,0.777,0.840,0.665,0.766,(2.0049)+(0.0359)Ser+(-0.0036)Ala+(-0.0690)Cit+(-0.0011)Arg+(0.0012)Val+(-0.1929)Met;0.745,0.782,0.777,0.767,0.756,0.818,0.816,0.789,(2.7490)+(-0.0128)Asn+(-0.0079)Ala+(-0.0084)Arg+(-0.2075)Met+(0.0135)Orn+(0.0598)Ile;0.745,0.788,0.713,0.700,0.694,0.807,0.721,0.731,(0.6566)+(0.0044)Gly+(-0.0976)Cit+(-0.0172)Lys+(0.1596)Ile+(-0.0903)Leu+(0.0608)Phe;0.745,0.783,0.755,0.742,0.759,0.847,0.711,0.765,(1.1576)+(0.0281)Ser+(-0.0122)Thr+(-0.0103)Ala+(-0.1148)Cit+(-0.0080)Arg+(0.0536)Orn;0.745,0.783,0.722,0.717,0.742,0.718,0.697,0.719,(-0.5515)+(-0.0399)Asn+(0.0027)Gly+(0.0217)Thr+(-0.3895)Met+(0.0389)Ile+(0.0767)Phe;0.745,0.779,0.768,0.760,0.742,0.815,0.808,0.781,(2.2416)+(-0.0220)Asn+(0.0025)Gly+(-0.0080)Ala+(-0.2180)Met+(0.0090)Orn+(0.0626)Ile;0.745,0.791,0.655,0.595,0.699,0.805,0.612,0.678,(-1.4748)+(0.0364)Ser+(-0.1257)Cit+(0.0406)Orn+(-0.0395)Lys+(0.0407)Ile+(0.0385)Phe;0.745,0.780,0.805,0.821,0.796,0.804,0.781,0.801,(-0.2657)+(0.0073)Gln+(-0.0055)Ala+(-0.0806)Cit+(-0.2540)Met+(-0.0071)Lys+(0.1022)Phe;0.745,0.795,0.706,0.685,0.719,0.783,0.679,0.717,(0.6338)+(0.0433)Ser+(-0.1501)Asn+(-0.0731)Cit+(-0.0072)Arg+(-0.0009)Pro+(0.0385)Ile;0.745,0.786,0.731,0.762,0.702,0.794,0.665,0.731,(-0.6493)+(0.0318)Ser+(-0.0082)Ala+(-0.0764)Cit+(-0.0134)Arg+(-0.0540)Tyr+(0.0853)Phe;0.745,0.785,0.754,0.761,0.768,0.785,0.683,0.749,(3.7103)+(-0.0766)Asn+(-0.1032)Cit+(-0.0595)Tyr+(0.0570)Orn+(-0.0148)Lys+(0.0747)Phe;0.745,0.778,0.711,0.694,0.641,0.785,0.847,0.742,(1.0037)+(-0.0026)Gly+(-

0.0073)Thr+(-0.0567)Val+(0.0137)Orn+(0.1458)Ile+(0.0160)Phe;0.745,0.785,0.779,0.811,0.763,0.833,0.692,0.775,(2.4650)+(0.0338)Ser+(-0.1483)Asn+(0.0053)Gln+(-0.0681)Cit+(-0.0197)Tyr+(-0.0062)Val;0.745,0.784,0.778,0.794,0.783,0.797,0.711,0.771,(1.6727)+(-0.0430)Asn+(0.0065)Gly+(-0.0057)Ala+(-0.0776)Cit+(-0.1994)Met+(0.1044)Phe;0.745,0.783,0.772,0.769,0.806,0.783,0.703,0.765,(2.2324)+(-0.0509)Asn+(-0.0912)Cit+(-0.2058)Met+(0.0444)Orn+(-0.0144)Leu+(0.0881)Phe;0.745,0.783,0.783,0.773,0.785,0.830,0.774,0.790,(7.7889)+(-0.0003)Asn+(-0.1007)His+(-0.0019)Ala+(-0.0268)Cit+(0.0085)Tyr+(-0.0462)Met;0.745,0.783,0.735,0.730,0.718,0.826,0.717,0.748,(-0.3012)+(0.0355)Ser+(-0.0124)Ala+(-0.0929)Cit+(0.0116)Pro+(-0.0210)Lys+(0.0661)Phe;0.745,0.781,0.743,0.741,0.699,0.817,0.791,0.762,(3.0349)+(0.0069)Thr+(-0.0141)Ala+(-0.0928)Cit+(0.0095)Pro+(-0.0445)Tyr+(0.0568)Ile;0.745,0.780,0.739,0.745,0.759,0.724,0.693,0.730,(0.8396)+(-0.0421)Asn+(0.0259)Thr+(0.0056)Pro+(-0.3425)Met+(-0.0105)Lys+(0.0971)Phe;0.745,0.786,0.768,0.767,0.775,0.820,0.718,0.770,(4.2792)+(0.0231)Thr+(-0.0097)Ala+(-0.0845)Cit+(0.0143)Pro+(-0.2460)Met+(0.0091)Leu;0.745,0.784,0.772,0.758,0.779,0.812,0.764,0.778,(7.3788)+(0.0044)Asn+(-0.1082)His+(-0.0300)Cit+(0.0047)Arg+(0.0040)Val+(-0.0655)Met;0.745,0.787,0.724,0.724,0.739,0.782,0.648,0.723,(3.7309)+(-0.0981)Asn+(0.0040)Gly+(-0.1069)Cit+(-0.0498)Tyr+(0.0444)Orn+(0.0316)Ile;0.745,0.782,0.770,0.757,0.776,0.806,0.763,0.776,(7.2347)+(-0.0006)Asn+(-0.1106)His+(-0.0247)Cit+(0.0020)Val+(-0.0825)Met+(0.0086)Lys;0.745,0.785,0.724,0.720,0.732,0.720,0.716,0.722,(-2.1496)+(0.0013)Gly+(0.0029)Gln+(0.0186)Thr+(-0.4419)Met+(0.0417)Ile+(0.0764)Phe;0.745,0.784,0.734,0.747,0.682,0.776,0.774,0.745,(3.2420)+(-0.0024)Gly+(-0.0001)Thr+(-0.0521)Tyr+(-0.0068)Lys+(0.1546)Ile+(-0.0814)Leu;0.745,0.782,0.775,0.802,0.778,0.739,0.721,0.760,(-0.7137)+(-0.0826)Asn+(0.0054)Gln+(0.0233)Thr+(-0.3264)Met+(-0.0125)Leu+(0.1024)Phe;0.745,0.791,0.7

45,0.750,0.723,0.821,0.723,0.754,(3.5155)+(0.0419)Ser+(-0.1564)Asn+(-0.0483)Cit+(-0.0134)Tyr+(-0.0371)Val+(0.0605)Leu;0.745,0.785,0.757,0.754,0.755,0.753,0.774,0.759,(1.2304)+(-0.0027)Arg+(-0.0244)Tyr+(-0.2734)Met+(-0.0115)Lys+(0.0482)Ile+(0.0780)Phe;0.745,0.782,0.736,0.725,0.737,0.829,0.700,0.748,(-0.7407)+(0.0263)Ser+(-0.0129)Ala+(-0.1142)Cit+(-0.0151)Arg+(0.0425)Orn+(0.0474)Phe;0.745,0.790,0.761,0.757,0.765,0.812,0.730,0.766,(6.6156)+(0.0040)Gly+(-0.1171)His+(-0.0073)Arg+(0.0067)Tyr+(-0.0980)Met+(0.0114)Lys;0.745,0.783,0.771,0.789,0.780,0.769,0.704,0.761,(1.2581)+(-0.0437)Asn+(0.0309)Thr+(-0.0055)Ala+(-0.0170)Arg+(-0.3011)Met+(0.0997)Phe;0.745,0.786,0.782,0.778,0.765,0.837,0.785,0.791,(5.1939)+(-0.0790)Asn+(-0.0049)Arg+(-0.0454)Val+(-0.1547)Met+(0.0432)Orn+(0.0672)Leu;0.745,0.788,0.707,0.704,0.743,0.821,0.559,0.707,(2.0043)+(0.0275)Ser+(-0.1156)Cit+(-0.0421)Tyr+(0.0556)Orn+(-0.0223)Lys+(0.0043)Leu;0.745,0.786,0.782,0.801,0.783,0.845,0.686,0.779,(1.3016)+(0.0324)Ser+(0.0032)Gln+(-0.0035)Ala+(-0.0713)Cit+(-0.0038)Arg+(-0.2023)Met;0.745,0.784,0.749,0.759,0.744,0.851,0.661,0.754,(2.2830)+(0.0202)Ser+(-0.0084)Ala+(-0.1167)Cit+(-0.0324)Tyr+(-0.0049)Val+(0.0559)Orn;0.745,0.781,0.675,0.649,0.665,0.789,0.681,0.696,(-2.2437)+(0.0209)Ser+(-0.1139)Cit+(0.0202)Orn+(0.1549)Ile+(-0.0989)Leu+(0.0438)Phe;0.745,0.791,0.766,0.784,0.762,0.813,0.691,0.762,(0.1188)+(0.0420)Ser+(-0.0920)Asn+(0.0033)Gln+(-0.2012)Met+(-0.0034)Lys+(0.0088)Leu;0.745,0.789,0.737,0.727,0.761,0.776,0.683,0.737,(3.4584)+(-0.0334)Asn+(0.0276)Thr+(-0.0784)Cit+(-0.0224)Tyr+(-0.2722)Met+(0.0565)Ile;0.745,0.783,0.764,0.763,0.732,0.816,0.794,0.776,(0.8195)+(0.0030)Gln+(0.0167)Thr+(-0.0080)Ala+(-0.3085)Met+(-0.0045)Orn+(0.0668)Ile;0.745,0.797,0.706,0.702,0.643,0.822,0.767,0.733,(-0.1708)+(0.0318)Ser+(-0.0098)Ala+(-0.0340)Tyr+(0.0115)Orn+(-0.0235)Lys+(0.0663)Ile;0.745,0.784,0.805,0.801,0.804,0.856,0.778,0.810,(3.5070)+(-0.1091)Asn+(0.0056)Gln+(-0.0091

)Ala+(-0.1178)Cit+(-0.0018)Arg+(0.0531)Orn;0.745,0.782,0.801,0.796,0.803,0.855,0.771,0.806,(3.6224)+(-0.1196)Asn+(0.0052)Gln+(0.0062)Thr+(-0.0094)Ala+(-0.1196)Cit+(0.0510)Orn;0.745,0.784,0.739,0.762,0.757,0.726,0.650,0.724,(-1.5348)+(0.0047)Gln+(0.0260)Thr+(-0.0258)Arg+(0.0057)Pro+(-0.4219)Met+(0.0985)Phe;0.745,0.791,0.790,0.790,0.811,0.794,0.741,0.784,(-0.2546)+(-0.0711)Asn+(0.0074)Gln+(-0.0986)Cit+(-0.2585)Met+(0.0314)Orn+(0.0823)Phe;0.745,0.783,0.795,0.806,0.773,0.846,0.778,0.801,(2.0611)+(0.0398)Ser+(-0.1410)Asn+(-0.0043)Gly+(0.0050)Gln+(-0.0058)Ala+(-0.0730)Cit;0.745,0.788,0.742,0.747,0.738,0.795,0.698,0.745,(-0.2255)+(0.0463)Ser+(-0.0078)Gly+(0.0074)Thr+(-0.3082)Met+(0.0127)Orn+(0.0070)Leu;0.745,0.785,0.703,0.714,0.642,0.808,0.727,0.723,(-0.3900)+(0.0308)Ser+(-0.0118)Ala+(-0.0261)Arg+(0.0087)Pro+(-0.0450)Tyr+(0.0514)Ile;0.745,0.789,0.728,0.733,0.665,0.815,0.782,0.749,(-0.0218)+(0.0402)Ser+(-0.0071)Gly+(-0.0097)Ala+(-0.0227)Arg+(-0.0465)Tyr+(0.0564)Ile;0.745,0.785,0.748,0.763,0.747,0.739,0.721,0.742,(1.0949)+(0.0076)Pro+(-0.0344)Tyr+(-0.2639)Met+(0.0185)Orn+(-0.0100)Lys+(0.0933)Phe;0.745,0.781,0.762,0.774,0.766,0.767,0.721,0.757,(0.5516)+(0.0267)Thr+(-0.0052)Ala+(-0.3269)Met+(-0.0098)Lys+(-0.0012)Leu+(0.1047)Phe;0.745,0.775,0.741,0.716,0.729,0.831,0.769,0.761,(1.4701)+(0.0044)Gly+(-0.0054)Thr+(-0.0152)Ala+(-0.1314)Cit+(0.0424)Orn+(0.0530)Ile;0.745,0.783,0.779,0.784,0.786,0.829,0.719,0.779,(5.3235)+(-0.0442)Asn+(0.0237)Thr+(-0.0087)Ala+(-0.0783)Cit+(0.0142)Pro+(-0.1924)Met;0.745,0.779,0.786,0.790,0.785,0.789,0.770,0.784,(1.3730)+(-0.0054)Ala+(-0.0095)Arg+(-0.2345)Met+(0.0241)Orn+(-0.0070)Lys+(0.0866)Phe;0.745,0.783,0.761,0.757,0.760,0.844,0.718,0.770,(4.8744)+(-0.0111)Ala+(-0.1189)Cit+(0.0121)Pro+(-0.0332)Tyr+(0.0625)Orn+(-0.0126)Lys;0.745,0.776,0.757,0.747,0.762,0.793,0.749,0.763,(7.2019)+(-0.1163)His+(-0.0233)Cit+(-0.0028)Arg+(-0.0123)Tyr+(0.0018)Val+(0.

0059)Lys;0.745,0.786,0.742,0.737,0.758,0.742,0.724,0.740,(-0.2566)+(0.0039)Gly+(-0.0118)Arg+(0.0033)Pro+(-0.3534)Met+(0.0403)Ile+(0.0743)Phe;0.745,0.781,0.785,0.783,0.796,0.838,0.729,0.787,(5.4203)+(-0.0560)Asn+(-0.0068)Ala+(-0.1084)Cit+(-0.0176)Tyr+(-0.0599)Met+(0.0599)Orn;0.745,0.781,0.773,0.779,0.795,0.835,0.666,0.769,(5.3254)+(-0.0765)Asn+(0.0026)Gly+(-0.0977)Cit+(-0.0114)Val+(-0.0957)Met+(0.0601)Orn;0.745,0.793,0.683,0.662,0.651,0.800,0.723,0.709,(0.0463)+(0.0301)Ser+(-0.0022)Gln+(-0.0053)Pro+(-0.0201)Lys+(0.1525)Ile+(-0.0753)Leu;0.745,0.792,0.720,0.705,0.669,0.834,0.783,0.748,(-0.8102)+(0.0390)Ser+(-0.0074)Thr+(-0.0107)Ala+(-0.0146)Arg+(-0.0201)Lys+(0.0683)Ile;0.745,0.790,0.740,0.756,0.735,0.793,0.670,0.739,(0.0298)+(0.0436)Ser+(-0.0909)Asn+(0.0026)Gln+(0.0089)Pro+(-0.2383)Met+(0.0029)Leu;0.745,0.787,0.769,0.809,0.756,0.747,0.707,0.755,(1.3336)+(-0.1585)Asn+(0.0073)Gln+(0.0178)Thr+(-0.0871)Cit+(-0.0752)Tyr+(0.0845)Phe;0.745,0.781,0.758,0.778,0.758,0.755,0.707,0.750,(-0.1502)+(0.0011)Gly+(0.0232)Thr+(-0.0053)Ala+(-0.3448)Met+(-0.0054)Leu+(0.1044)Phe;0.744,0.786,0.731,0.728,0.757,0.728,0.686,0.725,(0.1663)+(-0.0235)Asn+(0.0286)Thr+(-0.0197)Arg+(-0.3889)Met+(0.0388)Ile+(0.0778)Phe;0.744,0.788,0.783,0.795,0.787,0.845,0.699,0.782,(1.0455)+(0.0334)Ser+(0.0029)Gln+(-0.0038)Ala+(-0.0749)Cit+(0.0126)Tyr+(-0.2269)Met;0.744,0.781,0.777,0.787,0.787,0.827,0.690,0.773,(5.9316)+(-0.0748)Asn+(-0.0952)Cit+(-0.0199)Tyr+(-0.0111)Val+(-0.0616)Met+(0.0632)Orn;0.744,0.781,0.783,0.778,0.755,0.851,0.802,0.797,(3.6376)+(-0.0001)Gly+(-0.0037)Ala+(-0.0402)Val+(-0.2186)Met+(0.0359)Orn+(0.0654)Leu;0.744,0.780,0.759,0.768,0.773,0.742,0.721,0.751,(0.8770)+(-0.0340)Asn+(0.0034)Gly+(0.0072)Pro+(-0.2897)Met+(-0.0065)Lys+(0.0913)Phe;0.744,0.796,0.715,0.709,0.648,0.826,0.790,0.743,(-0.3999)+(0.0356)Ser+(-0.0062)Thr+(-0.0097)Ala+(-0.0280)Tyr+(-0.0207)Lys+(0.0701)Ile;0.744,0.789,0.705,0.685,0.645,0.819,0.802,0.738,(-1.8055)+(0.034

8)Ser+(-0.0121)Ala+(0.0053)Orn+(-0.0294)Lys+(0.0595)Ile+(0.0299)Phe;0
.744,0.785,0.736,0.737,0.697,0.821,0.751,0.751,(2.3204)+(0.0408)Ser+(
-0.1981)Asn+(0.0023)Gln+(0.0084)Pro+(-0.0472)Val+(0.0645)Leu;0.744,0.
781,0.755,0.768,0.755,0.757,0.715,0.749,(-0.2479)+(0.0011)Gly+(0.0218
)Thr+(-0.0058)Ala+(-0.3466)Met+(0.0053)Orn+(0.0974)Phe;0.744,0.779,0.
777,0.771,0.786,0.848,0.721,0.781,(4.5925)+(-0.0921)Asn+(0.0041)Gly+(
-0.0090)Ala+(-0.1220)Cit+(0.0025)Arg+(0.0587)Orn;0.744,0.792,0.765,0.
786,0.760,0.811,0.690,0.762,(0.1112)+(0.0418)Ser+(-0.0960)Asn+(0.0032
)Gln+(-0.0020)Tyr+(-0.2044)Met+(0.0073)Leu;0.744,0.788,0.749,0.767,0.
750,0.816,0.652,0.746,(1.3337)+(0.0412)Ser+(-0.0912)Asn+(-0.0067)Tyr+
(-0.1660)Met+(0.0233)Orn+(-0.0034)Lys;0.744,0.787,0.768,0.798,0.760,0
.815,0.667,0.760,(1.9071)+(0.0351)Ser+(-0.1439)Asn+(0.0053)Gln+(-0.07
12)Cit+(-0.0053)Arg+(-0.0275)Tyr;0.744,0.788,0.778,0.783,0.731,0.828,
0.829,0.793,(2.2614)+(-0.1103)Asn+(0.0047)Gln+(-0.0047)Pro+(-0.0060)L
ys+(0.1488)Ile+(-0.0809)Leu;0.744,0.783,0.728,0.721,0.745,0.708,0.725
,0.725,(-0.2071)+(-0.0324)Asn+(0.0254)Thr+(-0.3968)Met+(-0.0104)Orn+(
0.0417)Ile+(0.0774)Phe;0.744,0.791,0.654,0.595,0.705,0.806,0.597,0.67
6,(0.1445)+(0.0352)Ser+(-0.0016)Gln+(-0.1176)Cit+(0.0421)Orn+(-0.0344
)Lys+(0.0469)Ile;0.744,0.787,0.725,0.725,0.717,0.783,0.700,0.731,(-0.
3965)+(0.0498)Ser+(-0.0077)Gly+(0.0093)Pro+(-0.3126)Met+(0.0117)Orn+(
0.0027)Leu;0.744,0.791,0.695,0.667,0.645,0.821,0.781,0.728,(-0.3020)+
(0.0369)Ser+(-0.0026)Gln+(-0.0112)Ala+(0.0098)Orn+(-0.0260)Lys+(0.065
8)Ile;0.744,0.789,0.752,0.763,0.743,0.812,0.701,0.754,(0.0479)+(0.044
1)Ser+(-0.0081)Gly+(0.0006)Gln+(0.0064)Thr+(-0.2901)Met+(0.0153)Orn;0
.744,0.784,0.753,0.758,0.773,0.762,0.691,0.746,(2.4489)+(-0.0502)Asn+
(-0.0926)Cit+(-0.0399)Tyr+(-0.1715)Met+(0.0442)Orn+(0.0857)Phe;0.744,
0.781,0.758,0.752,0.736,0.812,0.779,0.770,(2.1872)+(-0.0296)Asn+(0.00
16)Gly+(0.0185)Thr+(-0.0079)Ala+(-0.2669)Met+(0.0643)Ile;0.744,0.796,

0.710,0.687,0.723,0.780,0.695,0.721,(0.7089)+(0.0457)Ser+(-0.1489)Asn+(-0.0019)Gly+(-0.0700)Cit+(-0.0078)Arg+(0.0359)Ile;0.744,0.785,0.764,0.767,0.728,0.833,0.778,0.777,(2.0600)+(0.0470)Ser+(-0.1234)Asn+(-0.0056)Gly+(-0.0088)Ala+(-0.0139)Arg+(0.0117)Pro;0.744,0.783,0.783,0.804,0.793,0.776,0.712,0.771,(-0.9819)+(-0.0734)Asn+(0.0051)Gly+(0.0080)Gln+(-0.0881)Cit+(-0.2698)Met+(0.1014)Phe;0.744,0.774,0.738,0.715,0.728,0.831,0.753,0.757,(1.4695)+(0.0040)Gly+(-0.0153)Ala+(-0.1280)Cit+(-0.0052)Arg+(0.0405)Orn+(0.0521)Ile;0.744,0.788,0.731,0.706,0.770,0.788,0.674,0.734,(2.3597)+(0.0211)Thr+(-0.0959)Cit+(0.0010)Pro+(-0.3298)Met+(0.0216)Orn+(0.0497)Ile;0.744,0.787,0.726,0.749,0.722,0.720,0.681,0.718,(2.9753)+(-0.1208)Asn+(0.0196)Thr+(-0.0787)Cit+(-0.0763)Tyr+(0.0270)Ile+(0.0657)Phe;0.744,0.786,0.697,0.710,0.675,0.767,0.659,0.703,(0.6237)+(0.0431)Ser+(-0.1273)Asn+(-0.0172)Arg+(0.0029)Pro+(-0.0475)Tyr+(0.0413)Ile;0.744,0.784,0.782,0.775,0.798,0.816,0.742,0.783,(1.8007)+(-0.0073)Ala+(-0.1015)Cit+(-0.2082)Met+(0.0470)Orn+(-0.0063)Leu+(0.0867)Phe;0.744,0.778,0.752,0.726,0.784,0.793,0.725,0.757,(3.2161)+(-0.0274)Asn+(-0.0912)Cit+(0.0013)Pro+(-0.2282)Met+(0.0332)Orn+(0.0413)Ile;0.744,0.792,0.670,0.641,0.648,0.792,0.702,0.696,(0.0396)+(0.0306)Ser+(-0.0029)Gln+(0.0058)Orn+(-0.0212)Lys+(0.1419)Ile+(-0.0738)Leu;0.744,0.781,0.760,0.805,0.740,0.727,0.709,0.745,(3.4618)+(-0.1535)Asn+(0.0002)Gly+(0.0241)Thr+(-0.0642)Tyr+(-0.0196)Val+(0.1140)Phe;0.744,0.783,0.793,0.811,0.797,0.757,0.765,0.782,(-0.6967)+(-0.0499)Asn+(0.0068)Gln+(-0.0145)Arg+(0.0059)Pro+(-0.3048)Met+(0.0855)Phe;0.744,0.783,0.742,0.745,0.740,0.840,0.669,0.748,(1.8398)+(0.0215)Ser+(-0.0096)Ala+(-0.1208)Cit+(-0.0357)Tyr+(0.0522)Orn+(0.0020)Leu;0.744,0.791,0.753,0.774,0.759,0.803,0.651,0.747,(1.0031)+(0.0450)Ser+(-0.0762)Asn+(-0.0065)Arg+(-0.1926)Met+(-0.0015)Lys+(0.0090)Leu;0.744,0.786,0.771,0.778,0.782,0.839,0.677,0.769,(1.7510)+(0.0368)Ser+(-0.0039)Ala+(-0.0709)

Cit+(0.0133)Tyr+(0.0009)Val+(-0.2158)Met;0.744,0.783,0.750,0.761,0.775,0.808,0.626,0.743,(5.7069)+(-0.0905)Asn+(0.0150)Thr+(-0.1083)Cit+(-0.0442)Tyr+(0.0578)Orn+(-0.0128)Lys;0.744,0.777,0.763,0.749,0.769,0.801,0.761,0.770,(7.3458)+(-0.0207)Asn+(-0.1129)His+(-0.0239)Cit+(-0.0019)Arg+(0.0001)Val+(0.0060)Lys;0.744,0.786,0.746,0.755,0.756,0.800,0.663,0.743,(0.5930)+(0.0462)Ser+(-0.0075)Gly+(0.0144)Thr+(-0.0156)Arg+(-0.3006)Met+(0.0087)Leu;0.744,0.780,0.731,0.749,0.678,0.778,0.761,0.741,(2.2915)+(0.0016)Gln+(-0.0040)Thr+(-0.0493)Tyr+(-0.0078)Lys+(0.1551)Ile+(-0.0815)Leu;0.744,0.793,0.706,0.683,0.649,0.825,0.802,0.740,(-0.6726)+(0.0405)Ser+(-0.0017)Gln+(-0.0100)Thr+(-0.0108)Ala+(-0.0221)Lys+(0.0702)Ile;0.744,0.784,0.754,0.770,0.761,0.716,0.720,0.742,(-1.0963)+(-0.0708)Asn+(0.0050)Gln+(0.0215)Thr+(0.0046)Pro+(-0.3662)Met+(0.0899)Phe;0.744,0.783,0.770,0.783,0.777,0.842,0.666,0.767,(2.1898)+(0.0356)Ser+(-0.0033)Ala+(-0.0678)Cit+(-0.0006)Arg+(-0.1848)Met+(-0.0014)Lys;0.744,0.794,0.711,0.687,0.654,0.823,0.811,0.744,(-1.1648)+(0.0384)Ser+(-0.0133)Thr+(-0.0110)Ala+(0.0128)Orn+(-0.0238)Lys+(0.0664)Ile;0.744,0.783,0.728,0.731,0.717,0.778,0.708,0.734,(-0.5507)+(0.0499)Ser+(-0.0076)Gly+(0.0010)Gln+(0.0099)Pro+(-0.3139)Met+(0.0042)Leu;0.744,0.782,0.799,0.829,0.792,0.781,0.750,0.788,(-0.6450)+(0.0013)Gly+(0.0057)Gln+(-0.0145)Arg+(-0.0138)Val+(-0.3010)Met+(0.1148)Phe;0.744,0.774,0.737,0.713,0.725,0.831,0.760,0.757,(1.2576)+(0.0038)Gly+(0.0001)Gln+(-0.0157)Ala+(-0.1324)Cit+(0.0398)Orn+(0.0524)Ile;0.744,0.790,0.774,0.759,0.735,0.849,0.838,0.795,(4.0254)+(-0.0114)Ala+(-0.0960)Cit+(0.0141)Arg+(-0.0249)Tyr+(-0.0175)Lys+(0.0748)Ile;0.744,0.788,0.736,0.741,0.745,0.757,0.689,0.733,(3.0585)+(-0.0956)Asn+(-0.0996)Cit+(-0.0676)Tyr+(0.0430)Orn+(0.0185)Ile+(0.0541)Phe;0.744,0.783,0.786,0.785,0.784,0.793,0.787,0.787,(2.4899)+(-0.0239)Asn+(-0.0089)Ala+(-0.0667)Cit+(0.0130)Pro+(-0.2183)Met+(0.0898)Phe;0.744,0.782,0.727,0.718,0.744,0.7

13,0.721,0.724,(-0.2212)+(-0.0353)Asn+(0.0227)Thr+(0.0019)Pro+(-0.391
0)Met+(0.0358)Ile+(0.0747)Phe;0.744,0.786,0.774,0.771,0.783,0.810,0.7
39,0.776,(1.1142)+(-0.0554)Asn+(0.0040)Gly+(0.0069)Gln+(-0.0868)Cit+(
-0.2479)Met+(0.0550)Ile;0.744,0.786,0.747,0.753,0.744,0.796,0.703,0.7
49,(-0.3536)+(0.0456)Ser+(-0.0077)Gly+(0.0009)Gln+(0.0098)Thr+(-0.316
2)Met+(0.0091)Leu;0.744,0.784,0.777,0.785,0.778,0.833,0.715,0.778,(2.
2924)+(0.0428)Ser+(-0.0053)Gly+(-0.0030)Ala+(-0.0617)Cit+(-0.1870)Met
+(-0.0021)Lys;0.744,0.784,0.772,0.779,0.784,0.843,0.677,0.771,(1.9255
)+(0.0367)Ser+(-0.0037)Ala+(-0.0698)Cit+(0.0141)Tyr+(-0.2074)Met+(-0.
0018)Lys;0.744,0.783,0.805,0.818,0.772,0.826,0.828,0.811,(3.5799)+(-0
.0920)Asn+(0.0067)Gln+(0.0099)Pro+(-0.0428)Val+(-0.2085)Met+(0.0643)L
eu;0.744,0.781,0.735,0.720,0.736,0.843,0.696,0.749,(0.9915)+(0.0243)S
er+(-0.0141)Ala+(-0.1146)Cit+(-0.0127)Arg+(0.0108)Pro+(0.0433)Orn;0.7
44,0.793,0.708,0.683,0.717,0.784,0.702,0.721,(0.6418)+(0.0449)Ser+(-0
.1558)Asn+(-0.0018)Gly+(-0.0754)Cit+(-0.0013)Pro+(0.0372)Ile;0.744,0.
790,0.777,0.804,0.767,0.830,0.691,0.773,(0.5842)+(0.0398)Ser+(-0.0983
)Asn+(0.0036)Gln+(-0.0003)Tyr+(-0.1819)Met+(-0.0010)Lys;0.744,0.783,0
.807,0.830,0.794,0.796,0.781,0.800,(-0.3481)+(0.0067)Gln+(-0.0039)Ala
+(-0.0721)Cit+(-0.0091)Val+(-0.2706)Met+(0.1133)Phe;0.744,0.782,0.776
,0.816,0.747,0.760,0.737,0.765,(3.5201)+(-0.1458)Asn+(0.0247)Thr+(-0.
0039)Ala+(-0.0590)Tyr+(-0.0174)Val+(0.1150)Phe;0.744,0.781,0.745,0.78
9,0.718,0.713,0.705,0.731,(3.5741)+(-0.1552)Asn+(0.0228)Thr+(0.0079)P
ro+(-0.0688)Tyr+(-0.0212)Val+(0.1094)Phe;0.744,0.781,0.709,0.704,0.72
4,0.705,0.693,0.707,(-1.2566)+(0.0027)Gly+(0.0234)Thr+(-0.4408)Met+(-
0.0147)Orn+(0.0478)Ile+(0.0818)Phe;0.744,0.785,0.776,0.782,0.778,0.83
2,0.714,0.777,(2.1164)+(0.0426)Ser+(-0.0051)Gly+(-0.0031)Ala+(-0.0627
)Cit+(0.0005)Val+(-0.1969)Met;0.744,0.782,0.746,0.748,0.698,0.799,0.8
03,0.762,(2.0375)+(-0.0140)Ala+(-0.0910)Cit+(0.0093)Pro+(-0.0536)Tyr+

(0.0492)Ile+(0.0476)Phe;0.744,0.780,0.742,0.731,0.754,0.841,0.677,0.751,(1.5470)+(0.0244)Ser+(-0.0012)Gln+(-0.0110)Ala+(-0.1143)Cit+(-0.0114)Arg+(0.0502)Orn;0.744,0.789,0.758,0.789,0.749,0.836,0.635,0.752,(3.3572)+(0.0351)Ser+(-0.1312)Asn+(-0.0165)Arg+(-0.0221)Tyr+(-0.0123)Val+(0.0370)Orn;0.744,0.784,0.795,0.798,0.761,0.857,0.810,0.807,(2.6279)+(0.0030)Gln+(-0.0037)Ala+(-0.0402)Val+(-0.2385)Met+(0.0318)Orn+(0.0656)Leu;0.744,0.783,0.761,0.804,0.744,0.732,0.706,0.746,(3.5984)+(-0.1482)Asn+(0.0257)Thr+(-0.0644)Tyr+(-0.0188)Val+(-0.0038)Lys+(0.1146)Phe;0.744,0.789,0.739,0.748,0.

731,0.787,0.696,0.741,(2.9282)+(0.0459)Ser+(-0.1231)Asn+(-0.0051)Gly+(-0.0614)Cit+(0.0083)Pro+(-0.0419)Tyr;0.744,0.785,0.772,0.780,0.783,0.840,0.676,0.770,(1.8440)+(0.0367)Ser+(-0.0037)Ala+(-0.0690)Cit+(-0.0013)Arg+(0.0137)Tyr+(-0.2129)Met;0.744,0.783,0.737,0.751,0.686,0.779,0.778,0.749,(3.2460)+(-0.0023)Gly+(-0.0017)Pro+(-0.0507)Tyr+(-0.0069)Lys+(0.1572)Ile+(-0.0817)Leu;0.744,0.778,0.730,0.724,0.694,0.802,0.768,0.747,(-0.1395)+(0.0011)Gln+(-0.0950)Cit+(-0.0089)Pro+(0.1738)Ile+(-0.1022)Leu+(0.0515)Phe;0.744,0.788,0.778,0.794,0.768,0.812,0.728,0.776,(1.9906)+(0.0517)Ser+(-0.0767)Asn+(-0.0067)Gly+(-0.0072)Arg+(-0.0044)Tyr+(-0.1626)Met;0.744,0.791,0.765,0.790,0.769,0.816,0.651,0.757,(1.5507)+(0.0430)Ser+(-0.0810)Asn+(-0.0081)Arg+(0.0006)Tyr+(-0.1731)Met+(0.0012)Lys;0.744,0.776,0.804,0.826,0.786,0.787,0.794,0.798,(-0.4631)+(-0.0637)Asn+(0.0020)Gly+(0.0057)Gln+(-0.0050)Ala+(-0.2485)Met+(0.0911)Phe;0.744,0.787,0.700,0.713,0.678,0.773,0.658,0.706,(0.6506)+(0.0423)Ser+(-0.1284)Asn+(0.0017)Thr+(-0.0171)Arg+(-0.0459)Tyr+(0.0443)Ile;0.744,0.783,0.767,0.786,0.758,0.760,0.738,0.761,(-1.2022)+(0.0031)Gln+(0.0211)Thr+(-0.0057)Ala+(-0.3627)Met+(0.0022)Orn+(0.0972)Phe;0.744,0.781,0.778,0.786,0.790,0.764,0.741,0.770,(-0.7098)+(0.0071)Gln+(-0.0768)Cit+(0.0066)Pro+(-0.3208)Met+(-0.0092)Lys+(0.0983)Phe;0.744,0.

779,0.748,0.732,0.771,0.787,0.714,0.751,(3.6950)+(-0.0335)Asn+(-0.092
9)Cit+(-0.0244)Tyr+(-0.1769)Met+(0.0379)Orn+(0.0424)Ile;0.744,0.783,0
.776,0.783,0.726,0.824,0.826,0.790,(2.0456)+(-0.1156)Asn+(0.0046)Gln+
(-0.0026)Thr+(-0.0046)Pro+(0.1503)Ile+(-0.0846)Leu;0.744,0.789,0.774,
0.781,0.776,0.764,0.757,0.770,(-0.7819)+(0.0044)Gln+(0.0063)Pro+(-0.3
341)Met+(0.0106)Orn+(-0.0114)Lys+(0.0886)Phe;0.744,0.789,0.742,0.725,
0.774,0.780,0.692,0.743,(3.0935)+(-0.0277)Asn+(0.0267)Thr+(-0.0777)Ci
t+(-0.0031)Arg+(-0.3066)Met+(0.0546)Ile;0.744,0.787,0.714,0.700,0.654
,0.795,0.819,0.742,(-1.1581)+(0.0417)Ser+(-0.0067)Gly+(-0.0251)Thr+(-
0.0036)Pro+(0.1681)Ile+(-0.0928)Leu;0.744,0.782,0.761,0.753,0.739,0.8
10,0.789,0.773,(2.3577)+(-0.0275)Asn+(0.0191)Thr+(-0.0079)Ala+(-0.266
7)Met+(0.0012)Orn+(0.0629)Ile;0.744,0.781,0.790,0.797,0.749,0.831,0.8
27,0.801,(2.8988)+(0.0041)Gln+(-0.0063)Ala+(0.0140)Pro+(-0.0361)Val+(
-0.2538)Met+(0.0596)Leu;0.744,0.788,0.742,0.768,0.747,0.803,0.615,0.7
33,(3.1568)+(0.0370)Ser+(-0.1288)Asn+(0.0063)Thr+(-0.0647)Cit+(-0.004
1)Arg+(-0.0290)Tyr;0.744,0.784,0.765,0.768,0.764,0.824,0.717,0.768,(3
.0099)+(-0.0088)Ala+(-0.1188)Cit+(-0.0469)Tyr+(0.0621)Orn+(-0.0173)Ly
s+(0.0768)Phe;0.744,0.788,0.776,0.802,0.772,0.840,0.668,0.771,(2.3328
)+(0.0414)Ser+(-0.0858)Asn+(-0.0074)Arg+(0.0055)Tyr+(-0.0056)Val+(-0.
1467)Met;0.744,0.780,0.784,0.797,0.773,0.770,0.781,0.780,(1.3685)+(-0
.0078)Ala+(-0.0085)Arg+(0.0134)Pro+(-0.2638)Met+(-0.0087)Leu+(0.0971)
Phe;0.744,0.788,0.723,0.719,0.749,0.722,0.681,0.718,(-0.2778)+(0.0277
)Thr+(-0.0214)Arg+(0.0023)Pro+(-0.4182)Met+(0.0388)Ile+(0.0792)Phe;0.
744,0.784,0.769,0.759,0.770,0.803,0.767,0.775,(7.1222)+(-0.0002)Asn+(
-0.1149)His+(-0.0052)Arg+(0.0009)Val+(-0.0820)Met+(0.0103)Lys;0.744,0
.783,0.779,0.786,0.772,0.770,0.785,0.778,(2.1938)+(-0.0435)Cit+(-0.00
73)Tyr+(-0.0348)Val+(-0.2884)Met+(0.0494)Leu+(0.1092)Phe;0.744,0.791,
0.753,0.774,0.759,0.802,0.651,0.746,(1.0060)+(0.0448)Ser+(-0.0777)Asn

+(-0.0071)Arg+(-0.0008)Tyr+(-0.1938)Met+(0.0083)Leu;0.744,0.786,0.754,0.767,0.790,0.742,0.652,0.738,(1.6644)+(-0.0553)Asn+(0.0317)Thr+(-0.0758)Cit+(-0.3202)Met+(-0.0078)Leu+(0.1064)Phe;0.744,0.784,0.789,0.808,0.786,0.795,0.739,0.782,(-0.9816)+(0.0043)Gly+(0.0060)Gln+(-0.0059)Ala+(-0.0881)Cit+(-0.2789)Met+(0.1063)Phe;0.744,0.780,0.799,0.835,0.783,0.773,0.753,0.786,(-0.3746)+(0.0061)Gln+(-0.0142)Arg+(-0.0214)Tyr+(-0.0133)Val+(-0.2701)Met+(0.1191)Phe;0.744,0.781,0.783,0.771,0.785,0.850,0.761,0.792,(5.1859)+(-0.0828)Asn+(-0.0112)Ala+(-0.1136)Cit+(0.0106)Pro+(0.0560)Orn+(-0.0066)Leu;0.743,0.779,0.764,0.755,0.768,0.796,0.757,0.769,(7.5024)+(-0.0199)Asn+(-0.1105)His+(-0.0226)Cit+(-0.0023)Arg+(-0.0103)Tyr+(0.0076)Lys;0.743,0.788,0.747,0.740,0.771,0.790,0.685,0.747,(1.0327)+(0.0050)Gln+(0.0236)Thr+(-0.0819)Cit+(-0.0098)Arg+(-0.3534)Met+(0.0575)Ile;0.743,0.782,0.760,0.782,0.767,0.727,0.710,0.746,(-1.0987)+(-0.0767)Asn+(0.0011)Gly+(0.0051)Gln+(0.0223)Thr+(-0.3506)Met+(0.0919)Phe;0.743,0.780,0.769,0.757,0.768,0.837,0.754,0.779,(5.7919)+(-0.1316)Asn+(-0.0875)Cit+(0.0005)Arg+(-0.0414)Val+(0.0630)Orn+(0.0519)Leu;0.743,0.790,0.757,0.769,0.787,0.762,0.657,0.744,(-0.7525)+(0.0057)Gln+(0.0303)Thr+(-0.0890)Cit+(-0.3810)Met+(-0.0131)Lys+(0.1119)Phe;0.743,0.786,0.759,0.759,0.770,0.803,0.702,0.758,(0.2578)+(0.0442)Ser+(-0.0056)Gly+(0.0029)Gln+(-0.0689)Cit+(-0.2722)Met+(0.0106)Leu;0.743,0.782,0.772,0.809,0.747,0.757,0.740,0.763,(3.4179)+(-0.1209)Asn+(-0.0549)Tyr+(-0.0201)Val+(0.0384)Orn+(-0.0009)Lys+(0.0974)Phe;0.743,0.781,0.780,0.762,0.781,0.844,0.778,0.792,(4.8456)+(-0.0855)Asn+(-0.0120)Ala+(-0.1167)Cit+(0.0031)Arg+(0.0099)Pro+(0.0535)Orn;0.743,0.787,0.770,0.758,0.769,0.814,0.774,0.779,(7.2267)+(0.0063)Asn+(-0.1132)His+(-0.0003)Arg+(0.0027)Tyr+(0.0031)Val+(-0.0664)Met;0.743,0.786,0.773,0.758,0.783,0.840,0.743,0.781,(4.2492)+(-0.0105)Ala+(-0.1094)Cit+(0.0019)Arg+(0.0132)Pro+(-0.1656)Met+(0.0506)Orn;0.743,0.785,0.776,0.768

,0.772,0.815,0.777,0.783,(7.2230)+(-0.1123)His+(-0.0016)Ala+(-0.0056)Arg+(0.0030)Tyr+(-0.0745)Met+(0.0108)Lys;0.743,0.779,0.786,0.815,0.779,0.759,0.745,0.775,(1.6529)+(-0.0678)Asn+(0.0037)Gly+(-0.0167)Val+(-0.2281)Met+(0.0045)Lys+(0.1166)Phe;0.743,0.787,0.749,0.757,0.742,0.817,0.694,0.752,(0.7042)+(0.0446)Ser+(-0.0083)Gly+(0.0077)Thr+(-0.2601)Met+(0.0203)Orn+(-0.0079)Lys;0.743,0.782,0.720,0.718,0.688,0.813,0.727,0.737,(2.9208)+(0.0408)Ser+(-0.1959)Asn+(0.0057)Thr+(0.0084)Pro+(-0.0486)Val+(0.0668)Leu;0.743,0.784,0.724,0.720,0.749,0.719,0.684,0.718,(-0.2390)+(0.0298)Thr+(-0.0204)Arg+(-0.4183)Met+(-0.0081)Orn+(0.0439)Ile+(0.0806)Phe;0.743,0.784,0.774,0.775,0.758,0.841,0.755,0.782,(2.8267)+(0.0431)Ser+(-0.1197)Asn+(-0.0034)Gly+(-0.0064)Ala+(-0.0684)Cit+(0.0060)Leu;0.743,0.782,0.764,0.752,0.762,0.833,0.753,0.775,(5.7670)+(-0.1354)Asn+(-0.0855)Cit+(0.0047)Pro+(-0.0425)Val+(0.0612)Orn+(0.0509)Leu;0.743,0.788,0.782,0.778,0.764,0.837,0.794,0.793,(5.0780)+(-0.0822)Asn+(0.0004)Tyr+(-0.0461)Val+(-0.1609)Met+(0.0417)Orn+(0.0688)Leu;0.743,0.787,0.769,0.789,0.743,0.857,0.706,0.774,(2.8237)+(0.0349)Ser+(-0.1395)Asn+(-0.0039)Ala+(-0.0106)Val+(0.0322)Orn+(-0.0041)Lys;0.743,0.783,0.787,0.786,0.764,0.847,0.790,0.797,(2.6229)+(0.0032)Gln+(-0.0405)Val+(-0.2506)Met+(0.0327)Orn+(-0.0055)Lys+(0.0652)Leu;0.743,0.782,0.730,0.747,0.678,0.779,0.758,0.741,(2.3401)+(0.0014)Gln+(-0.0024)Pro+(-0.0496)Tyr+(-0.0093)Lys+(0.1569)Ile+(-0.0805)Leu;0.743,0.788,0.766,0.775,0.743,0.838,0.737,0.773,(0.6219)+(0.0437)Ser+(-0.0075)Gly+(-0.0031)Ala+(-0.0050)Tyr+(-0.2307)Met+(0.0217)Orn;0.743,0.789,0.777,0.771,0.804,0.854,0.680,0.777,(4.7443)+(0.0170)Thr+(-0.0070)Ala+(-0.1150)Cit+(-0.1597)Met+(0.0559)Orn+(-0.0103)Lys;0.743,0.783,0.780,0.770,0.779,0.823,0.777,0.787,(7.3579)+(-0.1064)His+(-0.0020)Ala+(-0.0257)Cit+(0.0052)Tyr+(-0.0751)Met+(0.0093)Lys;0.743,0.796,0.705,0.709,0.683,0.790,0.677,0.715,(0.7533)+(0.0442)Ser+(-0.1106)Asn+(-0.0119)Arg+(-0.0

383)Tyr+(-0.0121)Lys+(0.0517)Ile;0.743,0.781,0.772,0.762,0.778,0.810,0.762,0.778,(7.3532)+(-0.0042)Asn+(-0.1082)His+(-0.0226)Cit+(-0.0014)Arg+(-0.0769)Met+(0.0097)Lys;0.743,0.789,0.699,0.677,0.637,0.820,0.798,0.733,(-0.8970)+(0.0335)Ser+(-0.0126)Ala+(0.0052)Pro+(0.0057)Orn+(-0.0272)Lys+(0.0605)Ile;0.743,0.783,0.752,0.751,0.780,0.777,0.680,0.747,(2.1651)+(-0.0946)Cit+(-0.0339)Tyr+(-0.1929)Met+(0.0488)Orn+(-0.0124)Lys+(0.0919)Phe;0.743,0.785,0.767,0.766,0.727,0.820,0.812,0.781,(2.3136)+(-0.1131)Asn+(0.0040)Gln+(0.0094)Orn+(-0.0070)Lys+(0.1380)Ile+(-0.0793)Leu;0.743,0.784,0.753,0.782,0.751,0.821,0.633,0.747,(3.8035)+(0.0353)Ser+(-0.1343)Asn+(0.0079)Thr+(-0.0615)Cit+(-0.0214)Tyr+(-0.0065)Val;0.743,0.784,0.788,0.799,0.796,0.764,0.761,0.780,(-0.5960)+(-0.0609)Asn+(0.0083)Gln+(-0.0796)Cit+(0.0056)Pro+(-0.2891)Met+(0.0910)Phe;0.743,0.778,0.801,0.820,0.785,0.789,0.792,0.797,(-0.6596)+(0.0011)Gly+(0.0048)Gln+(-0.0048)Ala+(-0.2811)Met+(-0.0076)Lys+(0.0962)Phe;0.743,0.785,0.713,0.732,0.687,0.779,0.671,0.717,(0.1300)+(0.0410)Ser+(-0.1371)Asn+(0.0024)Gln+(-0.0183)Arg+(-0.0452)Tyr+(0.0430)Ile;0.743,0.785,0.773,0.776,0.781,0.806,0.728,0.773,(2.0096)+(-0.0072)Ala+(-0.1024)Cit+(-0.0273)Tyr+(-0.1815)Met+(0.0478)Orn+(0.0885)Phe;0.743,0.792,0.730,0.752,0.731,0.829,0.599,0.728,(1.2583)+(0.0361)Ser+(-0.0190)Arg+(0.0124)Pro+(-0.0106)Val+(-0.2539)Met+(0.0232)Orn;0.743,0.779,0.789,0.780,0.802,0.843,0.744,0.792,(5.0318)+(-0.0541)Asn+(-0.0073)Ala+(-0.1114)Cit+(0.0041)Arg+(-0.0923)Met+(0.0573)Orn;0.743,0.779,0.804,0.817,0.790,0.792,0.806,0.801,(-0.1925)+(-0.0625)Asn+(0.0054)Gln+(-0.0055)Ala+(-0.2430)Met+(0.0128)Orn+(0.0839)Phe;0.743,0.783,0.748,0.744,0.747,0.744,0.760,0.749,(-1.8658)+(0.0022)Gly+(0.0036)Gln+(0.0026)Pro+(-0.3921)Met+(0.0399)Ile+(0.0727)Phe;0.743,0.781,0.725,0.733,0.748,0.725,0.660,0.716,(-0.0778)+(0.0014)Gly+(0.0234)Thr+(0.0063)Pro+(-0.3830)Met+(-0.0119)Lys+(0.1013)Phe;0.743,0.780,0.805,0.823,0.780,0.836,0.789,0

.807,(0.9657)+(-0.1328)Asn+(0.0047)Gly+(0.0066)Gln+(-0.0089)Ala+(-0.0944)Cit+(0.0695)Phe;0.743,0.779,0.708,0.702,0.724,0.710,0.691,0.707,(-1.2579)+(0.0022)Gly+(0.0197)Thr+(0.0021)Pro+(-0.4336)Met+(0.0401)Ile+(0.0773)Phe;0.743,0.783,0.770,0.757,0.779,0.812,0.758,0.777,(7.4606)+(0.0068)Asn+(-0.1082)His+(-0.0264)Cit+(0.0030)Tyr+(0.0037)Val+(-0.0655)Met;0.743,0.781,0.771,0.768,0.744,0.818,0.804,0.784,(2.4474)+(-0.0137)Asn+(0.0030)Gly+(-0.0078)Ala+(-0.0069)Arg+(-0.2132)Met+(0.0668)Ile;0.743,0.788,0.708,0.725,0.725,0.786,0.572,0.702,(0.0711)+(0.0392)Ser+(0.0101)Thr+(-0.0180)Arg+(0.0099)Pro+(-0.3176)Met+(0.0048)Leu;0.743,0.783,0.770,0.767,0.783,0.803,0.726,0.770,(3.8757)+(-0.1366)Asn+(-0.0915)Cit+(0.0036)Pro+(-0.0225)Val+(0.0564)Orn+(0.0717)Phe;0.743,0.787,0.710,0.732,0.725,0.791,0.564,0.703,(0.5731)+(0.0376)Ser+(0.0105)Thr+(-0.0186)Arg+(0.0109)Pro+(-0.0079)Tyr+(-0.2938)Met;0.743,0.780,0.788,0.779,0.803,0.842,0.741,0.791,(5.0462)+(-0.0505)Asn+(-0.0073)Ala+(-0.1084)Cit+(-0.0924)Met+(0.0571)Orn+(0.0010)Leu;0.743,0.789,0.745,0.769,0.751,0.817,0.617,0.739,(3.4096)+(0.0367)Ser+(-0.1221)Asn+(0.0074)Thr+(-0.0672)Cit+(-0.0252)Tyr+(-0.0062)Lys;0.743,0.786,0.722,0.732,0.683,0.801,0.721,0.734,(3.1179)
+(0.0422)Ser+(-0.1745)Asn+(0.0101)Pro+(-0.0217)Tyr+(-0.0436)Val+(0.0623)Leu;0.743,0.785,0.787,0.796,0.778,0.789,0.778,0.785,(2.3181)+(-0.0071)Ala+(-0.0571)Cit+(0.0145)Pro+(-0.0111)Val+(-0.2477)Met+(0.1078)Phe;0.743,0.784,0.795,0.825,0.787,0.764,0.757,0.783,(-0.2793)+(-0.0728)Asn+(0.0092)Gln+(-0.0797)Cit+(-0.0336)Tyr+(-0.2139)Met+(0.1039)Phe;0.743,0.778,0.785,0.796,0.771,0.773,0.793,0.783,(1.6956)+(-0.0337)Asn+(-0.0077)Ala+(0.0131)Pro+(-0.2404)Met+(-0.0097)Leu+(0.0958)Phe;0.743,0.782,0.753,0.747,0.708,0.817,0.814,0.771,(3.2429)+(-0.0138)Ala+(-0.0885)Cit+(-0.0002)Arg+(0.0099)Pro+(-0.0393)Tyr+(0.0569)Ile;0.743,0.788,0.745,0.734,0.767,0.789,0.700,0.747,(0.9476)+(0.0045)Gln+(0.0215)Thr+

(-0.0883)Cit+(0.0009)Pro+(-0.3592)Met+(0.0568)Ile;0.743,0.785,0.782,0.773,0.753,0.829,0.834,0.797,(3.1488)+(-0.0075)Ala+(-0.0021)Arg+(-0.0038)Tyr+(-0.1973)Met+(-0.0081)Lys+(0.0699)Ile;0.743,0.789,0.734,0.734,0.701,0.837,0.725,0.750,(3.1537)+(0.0398)Ser+(-0.1778)Asn+(0.0105)Thr+(-0.0461)Val+(-0.0081)Lys+(0.0725)Leu;0.743,0.783,0.788,0.795,0.769,0.847,0.769,0.795,(2.6303)+(0.0038)Gln+(-0.0132)Arg+(-0.0404)Val+(-0.2472)Met+(0.0339)Orn+(0.0617)Leu;0.743,0.782,0.777,0.762,0.780,0.844,0.760,0.787,(4.8911)+(-0.0950)Asn+(0.0071)Thr+(-0.0120)Ala+(-0.1159)Cit+(0.0095)Pro+(0.0512)Orn;0.743,0.786,0.749,0.745,0.767,0.808,0.682,0.751,(1.2413)+(0.0481)Ser+(-0.0052)Gly+(-0.0640)Cit+(-0.2382)Met+(-0.0068)Lys+(0.0147)Leu;0.743,0.779,0.691,0.699,0.659,0.755,0.690,0.701,(0.2735)+(0.0428)Ser+(-0.1413)Asn+(-0.0030)Thr+(0.0021)Pro+(-0.0483)Tyr+(0.0408)Ile;0.743,0.791,0.736,0.722,0.707,0.817,0.773,0.755,(0.5520)+(0.0025)Gln+(-0.0939)Cit+(-0.0178)Lys+(0.1573)Ile+(-0.0897)Leu+(0.0546)Phe;0.743,0.788,0.724,0.723,0.717,0.781,0.705,0.731,(-0.0158)+(0.0515)Ser+(-0.0073)Gly+(0.0099)Pro+(-0.2893)Met+(-0.0063)Lys+(0.0076)Leu;0.743,0.786,0.767,0.780,0.757,0.747,0.767,0.763,(-1.2347)+(0.0056)Gln+(-0.0164)Arg+(-0.0262)Tyr+(-0.3238)Met+(0.0417)Ile+(0.0788)Phe;0.743,0.785,0.777,0.785,0.778,0.833,0.712,0.777,(2.2172)+(0.0429)Ser+(-0.0053)Gly+(-0.0030)Ala+(-0.0601)Cit+(-0.0027)Arg+(-0.1926)Met;0.743,0.775,0.714,0.707,0.686,0.796,0.729,0.729,(-0.2829)+(0.0031)Gly+(-0.0984)Cit+(-0.0088)Pro+(0.1751)Ile+(-0.1025)Leu+(0.0551)Phe;0.743,0.782,0.742,0.751,0.724,0.840,0.686,0.750,(2.4512)+(0.0304)Ser+(-0.0102)Ala+(-0.0827)Cit+(0.0155)Pro+(-0.0269)Tyr+(-0.0112)Lys;0.743,0.781,0.694,0.702,0.665,0.764,0.685,0.704,(0.1788)+(0.0427)Ser+(-0.1437)Asn+(-0.0044)Thr+(-0.0479)Tyr+(0.0122)Orn+(0.0398)Ile;0.743,0.780,0.729,0.744,0.679,0.777,0.763,0.741,(2.8482)+(-0.0021)Thr+(-0.0019)Pro+(-0.0479)Tyr+(-0.0071)Lys+(0.1582)Ile+(-0.0817)Leu;0.743,0.785,0.752,0.766

,0.718,0.839,0.724,0.762,(1.7558)+(0.0403)Ser+(-0.1229)Asn+(-0.0017)Thr+(-0.0087)Ala+(-0.0140)Arg+(0.0121)Pro;0.743,0.779,0.748,0.755,0.703,0.807,0.782,0.762,(1.6670)+(0.0088)Thr+(-0.0127)Ala+(-0.0933)Cit+(-0.0563)Tyr+(0.0537)Ile+(0.0501)Phe;0.743,0.780,0.744,0.738,0.755,0.741,0.738,0.743,(-0.1077)+(-0.0275)Asn+(0.0039)Gly+(-0.3307)Met+(-0.0006)Orn+(0.0419)Ile+(0.0716)Phe;0.743,0.785,0.740,0.747,0.739,0.790,0.690,0.741,(0.0762)+(0.0461)Ser+(-0.0078)Gly+(0.0109)Thr+(-0.0072)Tyr+(-0.3026)Met+(0.0098)Leu;0.743,0.795,0.704,0.694,0.643,0.823,0.768,0.732,(0.1740)+(0.0354)Ser+(-0.0017)Gln+(-0.0096)Ala+(-0.0309)Tyr+(-0.0213)Lys+(0.0703)Ile;0.743,0.791,0.674,0.615,0.714,0.808,0.652,0.697,(-0.0387)+(0.0389)Ser+(-0.0043)Gly+(-0.1136)Cit+(0.0412)Orn+(-0.0351)Lys+(0.0444)Ile;0.743,0.782,0.780,0.810,0.758,0.804,0.731,0.776,(2.9302)+(-0.0911)Asn+(0.0052)Gly+(-0.0069)Ala+(-0.0774)Cit+(-0.0393)Tyr+(0.0905)Phe;0.743,0.783,0.705,0.712,0.651,0.811,0.721,0.724,(-0.2219)+(0.0327)Ser+(-0.0014)Gln+(-0.0101)Ala+(-0.0233)Arg+(-0.0402)Tyr+(0.0598)Ile;0.743,0.783,0.748,0.745,0.763,0.744,0.728,0.745,(0.1173)+(-0.0213)Asn+(0.0042)Gly+(-0.0101)Arg+(-0.3217)Met+(0.0423)Ile+(0.0727)Phe;0.743,0.786,0.724,0.731,0.709,0.783,0.693,0.729,(0.1225)+(0.0486)Ser+(-0.0084)Gly+(0.0104)Pro+(-0.0162)Tyr+(-0.2801)Met+(0.0147)Orn;0.743,0.785,0.715,0.737,0.727,0.795,0.572,0.708,(0.1336)+(0.0374)Ser+(0.0009)Gln+(0.0097)Thr+(-0.0190)Arg+(0.0103)Pro+(-0.3083)Met;0.743,0.785,0.778,0.782,0.781,0.834,0.718,0.779,(1.9895)+(0.0427)Ser+(-0.0048)Gly+(-0.0033)Ala+(-0.0634)Cit+(0.0086)Tyr+(-0.2101)Met;0.743,0.782,0.755,0.734,0.755,0.840,0.749,0.769,(1.0559)+(0.0319)Ser+(-0.0032)Gly+(-0.0143)Thr+(-0.0104)Ala+(-0.1164)Cit+(0.0528)Orn;0.743,0.786,0.779,0.800,0.760,0.812,0.737,0.777,(2.0391)+(0.0419)Ser+(-0.1440)Asn+(-0.0058)Gly+(0.0054)Gln+(-0.0671)Cit+(-0.0330)Tyr;0.743,0.790,0.740,0.737,0.755,0.787,0.684,0.740,(1.2592)+(0.0045)Gln+(0.0230)Thr+(-0.0872)Cit+(-0.

0192)Tyr+(-0.3305)Met+(0.0596)Ile;0.743,0.789,0.739,0.741,0.782,0.734,0.650,0.727,(1.2676)+(-0.0468)Asn+(0.0311)Thr+(-0.0793)Cit+(0.0055)Pro+(-0.3576)Met+(0.0977)Phe;0.743,0.782,0.769,0.792,0.774,0.748,0.712,0.757,(-1.3252)+(0.0018)Gly+(0.0051)Gln+(-0.0168)Arg+(0.0068)Pro+(-0.3526)Met+(0.0907)Phe;0.743,0.782,0.763,0.765,0.778,0.757,0.729,0.757,(1.0233)+(-0.0090)Arg+(0.0064)Pro+(-0.2974)Met+(0.0177)Orn+(-0.0086)Lys+(0.0841)Phe;0.743,0.786,0.716,0.690,0.721,0.830,0.696,0.734,(2.5265)+(0.0025)Gly+(-0.1153)Cit+(0.0415)Orn+(-0.0180)Lys+(0.1461)Ile+(-0.0788)Leu;0.743,0.785,0.779,0.804,0.745,0.862,0.725,0.784,(2.3467)+(0.0329)Ser+(-0.1566)Asn+(0.0020)Gln+(-0.0039)Ala+(-0.0120)Val+(0.0294)Orn;0.743,0.785,0.713,0.732,0.729,0.795,0.568,0.706,(0.5277)+(0.0383)Ser+(0.0104)Thr+(-0.0175)Arg+(0.0105)Pro+(-0.2972)Met+(-0.0025)Lys;0.743,0.782,0.805,0.803,0.805,0.856,0.775,0.810,(3.6483)+(-0.1101)Asn+(0.0055)Gln+(-0.0088)Ala+(-0.1184)Cit+(0.0542)Orn+(-0.0031)Leu;0.743,0.779,0.782,0.792,0.779,0.831,0.728,0.783,(3.0604)+(0.0045)Gln+(0.0187)Thr+(-0.0090)Ala+(-0.0868)Cit+(0.0147)Pro+(-0.2466)Met;0.743,0.792,0.672,0.619,0.708,0.812,0.636,0.694,(-0.4185)+(0.0385)Ser+(-0.0126)Thr+(-0.1160)Cit+(0.0444)Orn+(-0.0313)Lys+(0.0474)Ile;0.743,0.790,0.777,0.790,0.766,0.815,0.738,0.777,(1.8350)+(0.0515)Ser+(-0.0812)Asn+(-0.0067)Gly+(-0.0044)Tyr+(-0.1681)Met+(-0.0006)Lys;0.743,0.785,0.775,0.779,0.754,0.842,0.760,0.784,(2.0026)+(0.0458)Ser+(-0.1285)Asn+(-0.0060)Gly+(-0.0062)Ala+(-0.0154)Arg+(0.0237)Orn;0.742,0.790,0.752,0.768,0.755,0.807,0.662,0.748,(0.8497)+(0.0449)Ser+(-0.0794)Asn+(-0.0005)Tyr+(-0.1972)Met+(-0.0028)Lys+(0.0099)Leu;0.742,0.784,0.774,0.786,0.763,0.846,0.717,0.778,(3.3901)+(0.0452)Ser+(-0.1387)Asn+(-0.0070)Gly+(-0.0178)Arg+(-0.0150)Val+(0.0346)Orn;0.742,0.782,0.770,0.757,0.776,0.806,0.762,0.775,(7.2372)+(-0.1107)His+(-0.0243)Cit+(-0.0005)Arg+(0.0020)Val+(-0.0827)Met+(0.0087)Lys;0.742,0.792,0.696,0.677,0.687,0.790,0.695,

0.712,(0.8737)+(0.0423)Ser+(-0.0058)Gly+(-0.0734)Cit+(-0.0482)Tyr+(-0.0230)Lys+(0.0583)Ile;0.742,0.777,0.771,0.788,0.747,0.759,0.783,0.769,(1.8875)+(-0.0347)Asn+(-0.0077)Ala+(0.0130)Pro+(-0.0286)Tyr+(-0.2124)Met+(0.0942)Phe;0.742,0.786,0.767,0.774,0.741,0.824,0.758,0.774,(-0.2310)+(0.0458)Ser+(-0.0068)Gly+(0.0014)Gln+(-0.0034)Ala+(-0.2583)Met+(0.0114)Leu;0.742,0.784,0.760,0.784,0.754,0.843,0.647,0.757,(0.5621)+(0.0335)Ser+(0.0010)Gln+(-0.0037)Ala+(-0.0165)Arg+(-0.2172)Met+(0.0229)Orn;0.742,0.783,0.699,0.721,0.700,0.773,0.589,0.696,(-0.6355)+(0.0369)Ser+(-0.0807)Cit+(-0.0059)Arg+(-0.0627)Tyr+(-0.0198)Lys+(0.0929)Phe;0.742,0.780,0.758,0.759,0.707,0.824,0.817,0.776,(2.1188)+(0.0030)Gln+(-0.0141)Ala+(-0.0956)Cit+(0.0093)Pro+(-0.0425)Tyr+(0.0569)Ile;0.742,0.787,0.768,0.785,0.754,0.839,0.700,0.769,(1.3104)+(0.0418)Ser+(-0.0080)Gly+(0.0116)Thr+(-0.0019)Tyr+(-0.0045)Val+(-0.2647)Met;0.742,0.783,0.772,0.770,0.791,0.833,0.692,0.772,(5.5720)+(-0.0684)Asn+(-0.0900)Cit+(0.0083)Pro+(-0.0139)Val+(-0.1255)Met+(0.0571)Orn;0.742,0.782,0.708,0.719,0.622,0.784,0.801,0.732,(-1.6280)+(0.0376)Ser+(-0.0085)Gly+(-0.0108)Ala+(-0.0693)Tyr+(0.0446)Ile+(0.0454)Phe;0.742,0.782,0.784,0.772,0.785,0.832,0.779,0.792,(7.6629)+(-0.1010)His+(-0.0020)Ala+(-0.0300)Cit+(0.0042)Arg+(0.0088)Tyr+(-0.0521)Met;0.742,0.779,0.760,0.764,0.718,0.810,0.802,0.773,(2.0288)+(-0.1260)Asn+(0.0009)Gly+(0.0037)Gln+(0.0064)Orn+(0.1394)Ile+(-0.0829)Leu;0.742,0.789,0.678,0.678,0.632,0.737,0.730,0.694,(-1.3236)+(0.0484)Ser+(-0.0100)Gly+(-0.0751)Tyr+(-0.0272)Lys+(0.0423)Ile+(0.0599)Phe;0.742,0.789,0.662,0.606,0.709,0.809,0.604,0.682,(-0.2152)+(0.0337)Ser+(-0.1167)Cit+(-0.0031)Arg+(0.0406)Orn+(-0.0343)Lys+(0.0462)Ile;0.742,0.786,0.709,0.765,0.678,0.771,0.577,0.698,(-0.8960)+(0.0276)Ser+(-0.0322)Arg+(-0.0668)Tyr+(-0.0177)Val+(0.0261)Orn+(0.0917)Phe;0.742,0.779,0.753,0.737,0.762,0.842,0.713,0.763,(1.3462)+(0.0278)Ser+(-0.0036)Gly+(-0.0109)Ala+(-0.1088)Cit+(-0.013

1)Arg+(0.0476)Orn;0.742,0.782,0.752,0.751,0.714,0.808,0.792,0.766,(2.9579)+(-0.1036)Asn+(0.0016)Gly+(-0.0046)Pro+(0.0132)Orn+(0.1475)Ile+(-0.0842)Leu;0.742,0.782,0.776,0.786,0.781,0.821,0.706,0.773,(0.9162)+(0.0423)Ser+(-0.0064)Gly+(0.0036)Gln+(-0.0620)Cit+(-0.0065)Arg+(-0.2372)Met;0.742,0.779,0.777,0.771,0.797,0.853,0.694,0.779,(4.4666)+(0.0024)Gly+(-0.0072)Ala+(-0.1153)Cit+(-0.1113)Met+(0.0614)Orn+(-0.0084)Lys;0.742,0.779,0.767,0.771,0.790,0.835,0.660,0.764,(5.4554)+(-0.1045)Asn+(0.0028)Gly+(-0.1029)Cit+(-0.0128)Val+(0.0637)Orn+(-0.0052)Lys;0.742,0.787,0.711,0.731,0.726,0.792,0.568,0.704,(0.1984)+(0.0379)Ser+(0.0077)Thr+(-0.0194)Arg+(0.0098)Pro+(-0.3037)Met+(0.0115)Orn;0.742,0.787,0.763,0.791,0.754,0.810,0.670,0.756,(1.8301)+(0.0352)Ser+(-0.1482)Asn+(0.0050)Gln+(-0.0751)Cit+(-0.0293)Tyr+(0.0016)Leu;0.742,0.784,0.765,0.786,0.744,0.784,0.739,0.763,(2.6333)+(-0.1326)Asn+(0.0065)Gln+(0.0127)Thr+(-0.0852)Cit+(-0.0558)Tyr+(0.0382)Ile;0.742,0.784,0.780,0.771,0.794,0.814,0.750,0.782,(1.7382)+(-0.0079)Ala+(-0.1036)Cit+(0.0019)Arg+(-0.2150)Met+(0.0452)Orn+(0.0813)Phe;0.742,0.778,0.747,0.739,0.757,0.844,0.678,0.754,(1.2854)+(0.0229)Ser+(-0.0110)Ala+(-0.1141)Cit+(-0.0124)Arg+(0.0494)Orn+(-0.0009)Leu;0.742,0.777,0.795,0.806,0.798,0.776,0.778,0.789,(-0.2563)+(-0.0557)Asn+(0.0060)Gln+(-0.2688)Met+(0.0141)Orn+(-0.0096)Lys+(0.0843)Phe;0.742,0.787,0.729,0.733,0.718,0.786,0.702,0.735,(-0.3707)+(0.0488)Ser+(-0.0079)Gly+(0.0005)Gln+(0.0096)Pro+(-0.3088)Met+(0.0121)Orn;0.742,0.786,0.738,0.761,0.729,0.809,0.646,0.736,(3.6755)+(0.0387)Ser+(-0.1309)Asn+(-0.0602)Cit+(0.0112)Pro+(-0.0280)Tyr+(-0.0095)Val;0.742,0.785,0.748,0.760,0.738,0.810,0.690,0.750,(0.4618)+(0.0440)Ser+(-0.0084)Gly+(0.0071)Thr+(-0.0100)Tyr+(-0.2712)Met+(0.0172)Orn;0.742,0.788,0.741,0.743,0.708,0.842,0.733,0.757,(1.7285)+(0.0388)Ser+(-0.1287)Asn+(-0.0087)Ala+(0.0107)Pro+(0.0202)Orn+(-0.0104)Lys;0.742,0.788,0.787,0.8

02,0.771,0.834,0.747,0.789,(2.5643)+(0.0497)Ser+(-0.0880)Asn+(-0.0068)Gly+(-0.0004)Tyr+(-0.0055)Val+(-0.1459)Met;0.742,0.786,0.761,0.756,0.747,0.814,0.764,0.770,(2.6725)+(-0.0177)Asn+(0.0231)Thr+(-0.0077)Ala+(-0.0142)Arg+(-0.2669)Met+(0.0640)Ile;0.742,0.779,0.766,0.759,0.744,0.817,0.793,0.778,(2.1919)+(0.0024)Gly+(-0.0080)Ala+(-0.0100)Arg+(-0.2252)Met+(0.0110)Orn+(0.0637)Ile;0.742,0.782,0.748,0.754,0.701,0.819,0.783,0.764,(1.2678)+(0.0035)Gly+(-0.0127)Ala+(-0.0962)Cit+(-0.0471)Tyr+(0.0566)Ile+(0.0503)Phe;0.742,0.779,0.786,0.794,0.780,0.788,0.773,0.784,(1.0996)+(-0.0051)Ala+(-0.2418)Met+(0.0228)Orn+(-0.0078)Lys+(-0.0047)Leu+(0.0911)Phe;0.742,0.794,0.691,0.689,0.668,0.785,0.677,0.705,(0.6403)+(0.0425)Ser+(-0.1226)Asn+(-0.0420)Tyr+(0.0162)Orn+(-0.0158)Lys+(0.0479)Ile;0.742,0.783,0.761,0.777,0.734,0.763,0.771,0.761,(0.9538)+(-0.0082)Ala+(0.0128)Pro+(-0.0281)Tyr+(-0.2546)Met+(0.0141)Orn+(0.0912)Phe;0.742,0.791,0.693,0.677,0.655,0.799,0.738,0.717,(-0.5126)+(0.0265)Ser+(-0.0062)Pro+(0.0052)Orn+(-0.0220)Lys+(0.1514)Ile+(-0.0757)Leu;0.742,0.780,0.760,0.777,0.758,0.758,0.720,0.753,(-0.0210)+(0.0218)Thr+(-0.0054)Ala+(-0.3362)Met+(0.0080)Orn+(-0.0067)Leu+(0.1011)Phe;0.742,0.787,0.731,0.709,0.772,0.787,0.667,0.734,(2.5053)+(0.0224)Thr+(-0.0923)Cit+(-0.0054)Arg+(-0.3238)Met+(0.0220)Orn+(0.0503)Ile;0.742,0.777,0.734,0.717,0.719,0.820,0.749,0.751,(2.2583)+(-0.0115)Thr+(-0.1064)Cit+(-0.0073)Pro+(0.0417)Orn+(0.1660)Ile+(-0.0942)Leu;0.742,0.781,0.689,0.700,0.680,0.733,0.644,0.689,(-0.8519)+(0.0358)Ser+(-0.0079)Gly+(-0.1027)Cit+(-0.0907)Tyr+(0.0351)Orn+(0.0631)Phe;0.742,0.784,0.685,0.701,0.685,0.758,0.589,0.683,(-0.7100)+(0.0367)Ser+(-0.0861)Cit+(0.0061)Pro+(-0.0693)Tyr+(-0.0224)Lys+(0.0899)Phe;0.742,0.783,0.767,0.796,0.759,0.736,0.729,0.755,(-0.8569)+(0.0055)Gln+(-0.0160)Arg+(0.0079)Pro+(-0.0321)Tyr+(-0.3075)Met+(0.0973)Phe;0.742,0.783,0.778,0.789,0.781,0.825,0.712,0.777,(1.0462)+(0.0412)Ser+(-0.0063)Gly+(0.0033)Gln+(

-0.0643)Cit+(-0.0017)Val+(-0.2370)Met;0.742,0.788,0.764,0.779,0.747,0.844,0.703,0.768,(1.6772)+(0.0385)Ser+(-0.1281)Asn+(-0.0020)Thr+(-0.0061)Ala+(-0.0152)Arg+(0.0246)Orn;0.742,0.785,0.745,0.751,0.711,0.835,0.735,0.758,(2.9887)+(0.0433)Ser+(-0.1595)Asn+(-0.0079)Arg+(-0.0428)Val+(-0.0038)Lys+(0.0672)Leu;0.742,0.773,0.745,0.714,0.733,0.828,0.793,0.767,(2.0545)+(-0.0164)Ala+(-0.1217)Cit+(-0.0049)Arg+(0.0065)Pro+(0.0392)Orn+(0.0449)Ile;0.742,0.784,0.735,0.754,0.691,0.823,0.709,0.744,(2.0480)+(0.0367)Ser+(-0.1347)Asn+(-0.0081)Ala+(0.0121)Pro+(-0.0340)Tyr+(0.0197)Orn;0.742,0.778,0.753,0.752,0.758,0.853,0.673,0.759,(1.8389)+(0.0217)Ser+(-0.0094)Ala+(-0.1078)Cit+(-0.0131)Arg+(-0.0068)Val+(0.0535)Orn;0.742,0.787,0.786,0.803,0.773,0.834,0.736,0.786,(2.7516)+(0.0502)Ser+(-0.0830)Asn+(-0.0068)Gly+(-0.0074)Arg+(-0.0056)Val+(-0.1378)Met;0.742,0.782,0.783,0.780,0.783,0.796,0.780,0.785,(2.2966)+(-0.0089)Ala+(-0.0666)Cit+(0.0133)Pro+(-0.2336)Met+(-0.0038)Lys+(0.0928)Phe;0.742,0.780,0.763,0.779,0.776,0.764,0.690,0.752,(0.8787)+(0.0311)Thr+(-0.0052)Ala+(-0.0169)Arg+(-0.3265)Met+(-0.0073)Lys+(0.1052)Phe;0.742,0.780,0.814,0.836,0.800,0.792,0.802,0.807,(-0.2617)+(-0.0540)Asn+(0.0069)Gln+(-0.0048)Ala+(-0.0125)Arg+(-0.2405)Met+(0.0905)Phe;0.742,0.785,0.768,0.788,0.769,0.835,0.667,0.765,(1.9779)+(0.0422)Ser+(-0.0080)Gly+(0.0158)Thr+(-0.0169)Arg+(-0.0050)Val+(-0.2539)Met;0.742,0.780,0.751,0.745,0.726,0.808,0.776,0.764,(1.7117)+(0.0012)Gly+(0.0174)Thr+(-0.0081)Ala+(-0.2942)Met+(-0.0011)Orn+(0.0672)Ile;0.742,0.778,0.738,0.765,0.742,0.710,0.681,0.724,(-1.5698)+(0.0032)Gln+(0.0186)Thr+(0.0071)Pro+(-0.4073)Met+(-0.0129)Leu+(0.1046)Phe;0.742,0.787,0.702,0.681,0.646,0.792,0.812,0.732,(-0.9399)+(0.0432)Ser+(-0.0064)Gly+(-0.0012)Gln+(-0.0253)Thr+(0.1627)Ile+(-0.0919)Leu;0.742,0.783,0.738,0.738,0.707,0.798,0.760,0.751,(1.0508)+(-0.0721)Cit+(-0.0195)Arg+(-0.0071)Pro+(0.1744)Ile+(-0.1037)Leu+(0.0579)Phe;0.742,0.783,0.806,0.815,0.813,0.8

57,0.729,0.804,(3.8815)+(-0.0968)Asn+(0.0064)Gln+(-0.0988)Cit+(-0.011
6)Val+(-0.1122)Met+(0.0543)Orn;0.742,0.781,0.730,0.735,0.751,0.724,0.
678,0.722,(0.1268)+(0.0230)Thr+(0.0060)Pro+(-0.3750)Met+(0.0056)Orn+(
-0.0127)Lys+(0.0980)Phe;0.742,0.784,0.768,0.769,0.725,0.820,0.815,0.7
82,(2.2139)+(-0.1143)Asn+(0.0008)Gly+(0.0043)Gln+(-0.0059)Lys+(0.1409
)Ile+(-0.0796)Leu;0.742,0.778,0.767,0.791,0.741,0.755,0.766,0.763,(1.
3000)+(-0.0074)Ala+(0.0141)Pro+(-0.0273)Tyr+(-0.2444)Met+(-0.0094)Leu
+(0.1039)Phe;0.742,0.784,0.748,0.746,0.765,0.801,0.684,0.749,(1.0349)
+(0.0472)Ser+(-0.0052)Gly+(-0.0623)Cit+(-0.0021)Arg+(-0.2570)Met+(0.0
114)Leu;0.742,0.776,0.768,0.792,0.763,0.737,0.739,0.758,(1.3497)+(-0.
0097)Arg+(0.0112)Pro+(-0.0175)Val+(-0.3073)Met+(0.0039)Lys+(0.1117)Ph
e;0.742,0.789,0.729,0.729,0.721,0.796,0.697,0.736,(0.2177)+(0.0492)Se
r+(-0.0080)Gly+(0.0095)Pro+(-0.2781)Met+(0.0174)Orn+(-0.0072)Lys;0.74
2,0.788,0.757,0.784,0.740,0.860,0.644,0.757,(0.9417)+(0.0297)Ser+(0.0
055)Thr+(-0.0030)Ala+(-0.0055)Val+(-0.2378)Met+(0.0218)Orn;0.742,0.78
2,0.779,0.784,0.765,0.843,0.749,0.785,(3.1591)+(0.0432)Ser+(-0.1168)A
sn+(-0.0039)Gly+(-0.0055)Ala+(-0.0640)Cit+(-0.0013)Arg;0.742,0.795,0.
726,0.707,0.728,0.790,0.726,0.738,(-0.1259)+(0.0426)Ser+(-0.1761)Asn+
(-0.0021)Gly+(0.0038)Gln+(-0.0816)Cit+(0.0335)Ile;0.742,0.781,0.708,0
.747,0.646,0.783,0.677,0.713,(-1.2251)+(0.0316)Ser+(-0.0104)Ala+(-0.0
290)Arg+(0.0118)Pro+(-0.0620)Tyr+(0.0729)Phe;0.742,0.789,0.691,0.666,
0.679,0.782,0.714,0.710,(-1.5228)+(0.0511)Ser+(-0.1488)Asn+(-0.0050)T
hr+(-0.0205)Lys+(0.0360)Ile+(0.0469)Phe;0.742,0.782,0.776,0.794,0.774
,0.749,0.750,0.767,(-0.8639)+(0.0048)Gln+(0.0079)Pro+(-0.3336)Met+(-0
.0074)Lys+(-0.0094)Leu+(0.0983)Phe;0.742,0.780,0.782,0.792,0.766,0.84
4,0.745,0.787,(3.5896)+(0.0433)Ser+(-0.1189)Asn+(-0.0044)Gly+(-0.0043
)Ala+(-0.0580)Cit+(-0.0045)Val;0.742,0.780,0.733,0.745,0.753,0.718,0.
670,0.722,(0.1318)+(0.0234)Thr+(0.0071)Pro+(-0.3737)Met+(-0.0097)Lys+

(-0.0083)Leu+(0.1060)Phe;0.742,0.779,0.748,0.765,0.764,0.749,0.668,0.736,(0.8861)+(0.0057)Gly+(-0.0633)Cit+(0.0108)Pro+(-0.0141)Val+(-0.3096)Met+(0.1205)Phe;0.741,0.781,0.737,0.736,0.747,0.776,0.692,0.738,(4.1913)+(-0.0871)Asn+(-0.1010)Cit+(0.0006)Arg+(-0.0532)Tyr+(0.0453)Orn+(0.0288)Ile;0.741,0.787,0.751,0.753,0.780,0.826,0.628,0.747,(4.0466)+(0.0146)Thr+(-0.0930)Cit+(0.0087)Pro+(-0.0113)Val+(-0.2477)Met+(0.0451)Orn;0.741,0.784,0.695,0.721,0.692,0.755,0.587,0.689,(-0.7071)+(0.0229)Ser+(-0.1058)Cit+(-0.0769)Tyr+(-0.0153)Val+(0.0461)Orn+(0.0883)Phe;0.741,0.779,0.725,0.729,0.737,0.795,0.641,0.726,(1.7375)+(0.0345)Ser+(-0.0081)Gly+(-0.0881)Cit+(-0.0164)Arg+(-0.0615)Tyr+(0.0433)Orn;0.741,0.774,0.735,0.709,0.722,0.828,0.763,0.755,(0.6414)+(0.0041)Gly+(-0.0162)Ala+(-0.1334)Cit+(0.0385)Orn+(0.0492)Ile+(0.0186)Phe;0.741,0.790,0.776,0.795,0.758,0.845,0.712,0.778,(0.8351)+(0.0406)Ser+(-0.0082)Gly+(0.0016)Gln+(0.0108)Thr+(-0.0048)Val+(-0.2730)Met;0.741,0.783,0.757,0.772,0.763,0.818,0.660,0.753,(1.4066)+(0.0444)Ser+(-0.0078)Gly+(0.0149)Thr+(-0.0153)Arg+(-0.2642)Met+(-0.0027)Lys;0.741,0.783,0.766,0.775,0.775,0.827,0.679,0.764,(4.3549)+(0.0026)Gly+(0.0202)Thr+(-0.0091)Ala+(-0.0849)Cit+(0.0155)Pro+(-0.2297)Met;0.741,0.779,0.691,0.676,0.639,0.816,0.753,0.721,(-0.8554)+(0.0339)Ser+(-0.0027)Gln+(-0.0140)Ala+(-0.0270)Arg+(0.0071)Pro+(0.0488)Ile;0.741,0.786,0.748,0.757,0.789,0.741,0.645,0.733,(1.5440)+(-0.0483)Asn+(0.0333)Thr+(-0.0750)Cit+(-0.0051)Arg+(-0.3374)Met+(0.0996)Phe;0.741,0.788,0.718,0.701,0.755,0.779,0.643,0.719,(2.0078)+(0.0041)Gly+(0.0230)Thr+(-0.0881)Cit+(0.0016)Pro+(-0.3465)Met+(0.0592)Ile;0.741,0.788,0.732,0.737,0.730,0.785,0.684,0.734,(0.2879)+(0.0517)Ser+(-0.0072)Gly+(-0.0138)Arg+(0.0107)Pro+(-0.2883)Met+(0.0035)Leu;0.741,0.782,0.776,0.782,0.762,0.843,0.743,0.783,(3.2306)+(0.0416)Ser+(-0.1243)Asn+(-0.0038)Gly+(0.0045)Thr+(-0.0059)Ala+(-0.0670)Cit;0.741,0.775,0.798,0.826,0.779,0.769,0.781,0.789,(2.6621

)+(-0.0553)Asn+(-0.0022)Ala+(-0.0224)Tyr+(-0.0131)Val+(-0.1691)Met+(0.1168)Phe;0.741,0.776,0.785,0.807,0.788,0.825,0.692,0.778,(3.8047)+(-0.1171)Asn+(0.0061)Gln+(-0.1073)Cit+(-0.0424)Tyr+(0.0528)Orn+(-0.0086)Leu;0.741,0.780,0.775,0.777,0.795,0.847,0.679,0.775,(4.3836)+(0.0146)Thr+(-0.0061)Ala+(-0.1065)Cit+(-0.0057)Val+(-0.1808)Met+(0.0532)Orn;0.741,0.779,0.754,0.766,0.770,0.739,0.701,0.744,(0.5355)+(0.0031)Gly+(-0.0082)Arg+(0.0076)Pro+(-0.3146)Met+(-0.0061)Lys+(0.0931)Phe;0.741,0.787,0.684,0.660,0.676,0.780,0.696,0.703,(-1.3941)+(0.0491)Ser+(-0.1561)Asn+(0.0081)Orn+(-0.0223)Lys+(0.0329)Ile+(0.0453)Phe;0.741,0.784,0.777,0.788,0.780,0.828,0.708,0.776,(1.0553)+(0.0419)Ser+(-0.0063)Gly+(0.0036)Gln+(-0.0660)Cit+(-0.2271)Met+(-0.0041)Lys;0.741,0.782,0.740,0.743,0.725,0.772,0.743,0.746,(-0.1191)+(0.0537)Ser+(-0.1599)Asn+(-0.0059)Gly+(-0.0127)Lys+(-0.0128)Leu+(0.0736)Phe;0.741,0.776,0.796,0.823,0.786,0.766,0.763,0.785,(-0.7154)+(0.0011)Gly+(0.0047)Gln+(-0.0137)Val+(-0.3109)Met+(-0.0016)Lys+(0.1136)Phe;0.741,0.782,0.773,0.812,0.760,0.765,0.700,0.759,(3.3568)+(-0.1117)Asn+(0.0049)Gly+(-0.0627)Cit+(-0.0449)Tyr+(-0.0141)Val+(0.1093)Phe;0.741,0.780,0.780,0.776,0.757,0.849,0.786,0.792,(3.9309)+(-0.0036)Ala+(-0.0087)Arg+(-0.0392)Val+(-0.2048)Met+(0.0387)Orn+(0.0629)Leu;0.741,0.779,0.763,0.793,0.750,0.737,0.732,0.753,(1.7345)+(-0.0073)Arg+(0.0117)Pro+(-0.0257)Tyr+(-0.0156)Val+(-0.2675)Met+(0.1170)Phe;0.741,0.780,0.708,0.735,0.698,0.774,0.612,0.705,(-0.4537)+(0.0343)Ser+(-0.0780)Cit+(-0.0611)Tyr+(-0.0070)Val+(-0.0177)Lys+(0.1008)Phe;0.741,0.781,0.736,0.735,0.746,0.775,0.691,0.737,(4.2008)+(-0.0868)Asn+(-0.1004)Cit+(0.0006)Pro+(-0.0537)Tyr+(0.0452)Orn+(0.0281)Ile;0.741,0.786,0.739,0.739,0.743,0.801,0.686,0.742,(0.2708)+(0.0471)Ser+(-0.0076)Gly+(0.0127)Thr+(-0.2937)Met+(-0.0087)Lys+(0.0135)Leu;0.741,0.791,0.707,0.724,0.736,0.703,0.605,0.692,(0.6622)+(0.0337)Thr+(-0.0814)Cit+(0.0084)Pro+(-0.0446)Tyr+(-0.3711)Met+(0.116

4)Phe;0.741,0.783,0.752,0.751,0.751,0.741,0.766,0.752,(-1.9600)+(0.00
25)Gly+(0.0041)Gln+(-0.3882)Met+(-0.0080)Orn+(0.0457)Ile+(0.0743)Phe;
0.741,0.787,0.752,0.764,0.721,0.840,0.720,0.761,(2.0186)+(0.0404)Ser+
(-0.1161)Asn+(-0.0084)Ala+(-0.0121)Arg+(0.0123)Pro+(-0.0058)Lys;0.741
,0.780,0.689,0.697,0.661,0.757,0.674,0.697,(0.3516)+(0.0410)Ser+(-0.1
494)Asn+(0.0016)Pro+(-0.0514)Tyr+(0.0103)Orn+(0.0376)Ile;0.741,0.778,
0.720,0.699,0.722,0.821,0.696,0.735,(-0.2103)+(0.0277)Ser+(-0.0029)Gl
n+(-0.0133)Ala+(-0.1248)Cit+(
0.0449)Orn+(0.0466)Phe;0.741,0.776,0.772,0.774,0.738,0.817,0.804,0.78
3,(4.1198)+(0.0017)Gly+(-0.0064)Ala+(0.0147)Pro+(-0.0356)Val+(-0.2297
)Met+(0.0600)Leu;0.741,0.772,0.745,0.715,0.728,0.829,0.798,0.768,(1.5
746)+(0.0007)Gln+(-0.0168)Ala+(-0.1268)Cit+(0.0061)Pro+(0.0378)Orn+(0
.0457)Ile;0.741,0.780,0.765,0.777,0.707,0.817,0.815,0.779,(0.7177)+(0
.0033)Gln+(-0.0127)Ala+(-0.0960)Cit+(-0.0532)Tyr+(0.0544)Ile+(0.0487)
Phe;0.741,0.788,0.736,0.760,0.741,0.797,0.620,0.730,(2.9571)+(0.0375)
Ser+(-0.1322)Asn+(0.0052)Thr+(-0.0681)Cit+(-0.0307)Tyr+(0.0024)Leu;0.
741,0.782,0.741,0.776,0.687,0.786,0.731,0.745,(-0.7627)+(0.0426)Ser+(
-0.0083)Gly+(-0.0069)Ala+(-0.0255)Arg+(-0.0649)Tyr+(0.0782)Phe;0.741,
0.782,0.734,0.778,0.689,0.758,0.696,0.730,(-0.3370)+(0.0441)Ser+(-0.0
097)Gly+(-0.0274)Arg+(-0.0713)Tyr+(-0.0145)Val+(0.0960)Phe;0.741,0.78
9,0.743,0.743,0.725,0.822,0.727,0.754,(3.3277)+(0.0425)Ser+(-0.1625)A
sn+(-0.0463)Cit+(-0.0023)Arg+(-0.0391)Val+(0.0614)Leu;0.741,0.788,0.6
90,0.667,0.678,0.784,0.709,0.709,(-1.3752)+(0.0495)Ser+(-0.1540)Asn+(
-0.0015)Pro+(-0.0214)Lys+(0.0368)Ile+(0.0470)Phe;0.741,0.785,0.774,0.
783,0.779,0.821,0.708,0.773,(0.8013)+(0.0419)Ser+(-0.0060)Gly+(0.0033
)Gln+(-0.0665)Cit+(0.0026)Tyr+(-0.2490)Met;0.741,0.782,0.729,0.741,0.
719,0.773,0.687,0.730,(-0.5218)+(0.0463)Ser+(-0.1654)Asn+(-0.0011)Thr
+(-0.0112)Lys+(-0.0130)Leu+(0.0757)Phe;0.741,0.781,0.770,0.764,0.794,

0.833,0.690,0.770,(3.8831)+(0.0167)Thr+(-0.0078)Ala+(-0.1119)Cit+(-0.2060)Met+(0.0466)Orn+(0.0066)Leu;0.741,0.780,0.766,0.780,0.733,0.825,0.756,0.774,(2.4671)+(0.0455)Ser+(-0.1299)Asn+(-0.0073)Gly+(-0.0047)Ala+(-0.0336)Tyr+(0.0260)Orn;0.741,0.776,0.782,0.773,0.793,0.844,0.741,0.788,(4.9978)+(-0.0959)Asn+(0.0086)Thr+(-0.0094)Ala+(-0.1160)Cit+(-0.0002)Arg+(0.0547)Orn;0.741,0.785,0.766,0.785,0.765,0.820,0.678,0.762,(0.6443)+(0.0425)Ser+(-0.0081)Gly+(0.0023)Gln+(0.0137)Thr+(-0.0182)Arg+(-0.2812)Met;0.741,0.773,0.745,0.753,0.764,0.731,0.693,0.735,(0.9877)+(-0.0465)Asn+(0.0255)Thr+(-0.3175)Met+(0.0086)Orn+(-0.0110)Lys+(0.0944)Phe;0.741,0.785,0.731,0.742,0.714,0.781,0.705,0.735,(-0.0329)+(0.0485)Ser+(-0.0082)Gly+(0.0012)Gln+(0.0111)Pro+(-0.0123)Tyr+(-0.2838)Met;0.741,0.783,0.752,0.750,0.737,0.809,0.747,0.761,(2.1765)+(0.0015)Gly+(0.0217)Thr+(-0.0078)Ala+(-0.0158)Arg+(-0.2840)Met+(0.0669)Ile;0.741,0.782,0.759,0.751,0.771,0.741,0.768,0.758,(0.6983)+(-0.0143)Asn+(-0.0088)Arg+(0.0032)Pro+(-0.3224)Met+(0.0369)Ile+(0.0687)Phe;0.741,0.779,0.752,0.748,0.718,0.837,0.772,0.769,(1.9268)+(0.0035)Gln+(-0.0886)Cit+(-0.0069)Pro+(-0.0143)Lys+(0.1664)Ile+(-0.0826)Leu;0.741,0.791,0.759,0.767,0.715,0.851,0.764,0.774,(2.2418)+(0.0404)Ser+(-0.1794)Asn+(0.0031)Gln+(-0.0437)Val+(-0.0064)Lys+(0.0685)Leu;0.741,0.789,0.762,0.776,0.746,0.847,0.696,0.767,(1.9673)+(0.0382)Ser+(-0.1193)Asn+(-0.0056)Ala+(-0.0129)Arg+(0.0271)Orn+(-0.0073)Lys;0.741,0.781,0.702,0.724,0.700,0.770,0.597,0.698,(-0.5813)+(0.0355)Ser+(-0.0842)Cit+(-0.0631)Tyr+(-0.0199)Lys+(-0.0041)Leu+(0.0963)Phe;0.741,0.780,0.736,0.758,0.697,0.783,0.723,0.740,(-0.4077)+(0.0363)Ser+(-0.0054)Gly+(-0.0081)Ala+(-0.0801)Cit+(-0.0609)Tyr+(0.0806)Phe;0.741,0.788,0.763,0.788,0.758,0.856,0.641,0.761,(1.4398)+(0.0322)Ser+(-0.0029)Ala+(-0.0168)Arg+(-0.0060)Val+(-0.1962)Met+(0.0292)Orn;0.741,0.787,0.730,0.772,0.683,0.809,0.659,0.731,(-0.9390)+(0.0343)Ser+(-0.0065)Ala+(-0.0201)Arg+(-0.0509

)Tyr+(-0.0130)Lys+(0.0838)Phe;0.741,0.785,0.742,0.760,0.749,0.824,0.621,0.739,(0.4895)+(0.0353)Ser+(0.0134)Thr+(-0.0038)Ala+(-0.0153)Arg+(-0.2734)Met+(0.0127)Leu;0.741,0.783,0.755,0.784,0.745,0.746,0.707,0.745,(1.3281)+(-0.0636)Asn+(0.0295)Thr+(-0.0049)Ala+(-0.0361)Tyr+(-0.2573)Met+(0.1077)Phe;0.741,0.781,0.760,0.776,0.772,0.764,0.688,0.750,(0.5057)+(0.0277)Thr+(-0.0058)Ala+(-0.0211)Arg+(-0.3334)Met+(0.0098)Orn+(0.0986)Phe;0.741,0.778,0.807,0.817,0.786,0.828,0.808,0.810,(1.6486)+(-0.1441)Asn+(0.0064)Gln+(0.0125)Thr+(-0.0097)Ala+(-0.0914)Cit+(0.0622)Phe;0.741,0.785,0.748,0.765,0.739,0.828,0.659,0.748,(0.3001)+(0.0367)Ser+(-0.0042)Ala+(-0.0146)Arg+(-0.2328)Met+(0.0202)Orn+(0.0089)Leu;0.741,0.781,0.756,0.772,0.715,0.847,0.731,0.766,(2.9358)+(0.0381)Ser+(-0.1368)Asn+(-0.0071)Ala+(0.0146)Pro+(-0.0110)Val+(-0.0019)Lys;0.741,0.780,0.800,0.836,0.772,0.774,0.779,0.790,(-0.3749)+(0.0048)Gln+(-0.0025)Ala+(-0.0194)Tyr+(-0.0123)Val+(-0.2674)Met+(0.1170)Phe;0.741,0.780,0.702,0.714,0.666,0.764,0.702,0.711,(-0.0624)+(0.0416)Ser+(-0.1484)Asn+(0.0015)Gln+(-0.0032)Thr+(-0.0465)Tyr+(0.0422)Ile;0.741,0.787,0.755,0.777,0.753,0.842,0.640,0.753,(0.9718)+(0.0345)Ser+(-0.0036)Ala+(-0.0146)Arg+(-0.2019)Met+(0.0256)Orn+(-0.0036)Lys;0.741,0.781,0.772,0.761,0.778,0.812,0.763,0.779,(7.3094)+(-0.0044)Asn+(-0.1082)His+(-0.0238)Cit+(0.0017)Tyr+(-0.0800)Met+(0.0093)Lys;0.741,0.789,0.742,0.753,0.721,0.806,0.708,0.747,(1.2089)+(0.0475)Ser+(-0.0081)Gly+(0.0136)Pro+(-0.0076)Tyr+(-0.0080)Val+(-0.2608)Met;0.741,0.783,0.760,0.794,0.761,0.843,0.606,0.751,(0.8135)+(0.0309)Ser+(0.0017)Gln+(0.0130)Thr+(-0.0029)Ala+(-0.0174)Arg+(-0.2497)Met;0.741,0.785,0.756,0.784,0.762,0.844,0.605,0.749,(1.1567)+(0.0332)Ser+(0.0130)Thr+(-0.0030)Ala+(-0.0159)Arg+(0.0048)Tyr+(-0.2510)Met;0.741,0.786,0.756,0.778,0.753,0.841,0.644,0.754,(0.7642)+(0.0347)Ser+(-0.0037)Ala+(-0.0158)Arg+(0.0021)Tyr+(-0.2168)Met+(0.0236)Orn;0.741,0.782,0.791,0.795,0.752,0.829,0.837,0.80

3,(1.3757)+(-0.0370)Asn+(0.0049)Gln+(-0.0074)Ala+(-0.0090)Tyr+(-0.212
1)Met+(0.0616)Ile;0.741,0.784,0.772,0.774,0.727,0.824,0.823,0.787,(2.
2382)+(-0.1098)Asn+(0.0045)Gln+(-0.0018)Thr+(-0.0056)Lys+(0.1416)Ile+
(-0.0802)Leu;0.741,0.782,0.702,0.715,0.705,0.777,0.605,0.701,(-0.5951
)+(0.0392)Ser+(-0.0001)Gln+(0.0054)Thr+(0.0093)Pro+(-0.3311)Met+(0.00
58)Leu;0.741,0.788,0.715,0.727,0.751,0.729,0.594,0.700,(0.6925)+(0.02
93)Thr+(-0.1018)Cit+(-0.0430)Tyr+(-0.3349)Met+(0.0313)Orn+(0.1086)Phe
;0.741,0.784,0.733,0.732,0.761,0.809,0.623,0.731,(1.0274)+(0.0411)Ser
+(-0.0734)Cit+(0.0033)Arg+(-0.2427)Met+(-0.0076)Lys+(0.0163)Leu;0.741
,0.779,0.797,0.815,0.788,0.791,0.771,0.792,(-0.6240)+(0.0050)Gln+(-0.
0055)Ala+(-0.0175)Arg+(-0.2778)Met+(0.0162)Orn+(0.0878)Phe;0.741,0.77
4,0.741,0.755,0.761,0.728,0.675,0.730,(0.7664)+(-0.0492)Asn+(0.0017)G
ly+(0.0266)Thr+(-0.3249)Met+(-0.0097)Lys+(0.0991)Phe;0.741,0.777,0.72
1,0.701,0.704,0.794,0.757,0.739,(0.6961)+(-0.0139)Thr+(-0.1063)Cit+(0
.0347)Orn+(0.1573)Ile+(-0.1012)Leu+(0.0441)Phe;0.741,0.786,0.723,0.70
8,0.756,0.785,0.651,0.725,(2.7145)+(0.0223)Thr+(-0.0969)Cit+(-0.0243)
Tyr+(-0.2924)Met+(0.0248)Orn+(0.0519)Ile;0.741,0.783,0.760,0.768,0.76
8,0.748,0.730,0.753,(0.7088)+(0.0075)Pro+(-0.3013)Met+(0.0174)Orn+(-0
.0075)Lys+(-0.0115)Leu+(0.0938)Phe;0.741,0.783,0.768,0.783,0.751,0.74
0,0.784,0.765,(-0.8499)+(-0.0509)Asn+(0.0058)Gln+(-0.0314)Tyr+(-0.285
4)Met+(0.0376)Ile+(0.0777)Phe;0.741,0.776,0.804,0.824,0.788,0.787,0.7
98,0.799,(-0.5477)+(0.0050)Gln+(-0.0047)Ala+(-0.2774)Met+(-0.0072)Lys
+(-0.0019)Leu+(0.0963)Phe;0.741,0.776,0.744,0.756,0.702,0.795,0.764,0
.754,(0.0283)+(0.0026)Gln+(-0.0391)Arg+(-0.0071)Pro+(0.1751)Ile+(-0.1
075)Leu+(0.0473)Phe;0.741,0.781,0.796,0.793,0.808,0.861,0.736,0.799,(
3.3539)+(0.0044)Gln+(-0.0071)Ala+(-0.1148)Cit+(-0.1303)Met+(0.0573)Or
n+(-0.0101)Lys;0.741,0.781,0.742,0.753,0.735,0.792,0.692,0.743,(0.003
7)+(0.0494)Ser+(-0.0077)Gly+(0.0021)Gln+(-0.0159)Arg+(0.0109)Pro+(-0.

2872)Met;0.741,0.780,0.773,0.777,0.780,0.833,0.704,0.773,(4.8157)+(0.0225)Thr+(-0.0089)Ala+(-0.0803)Cit+(0.0149)Pro+(-0.2204)Met+(-0.0029)Lys;0.741,0.770,0.754,0.729,0.739,0.835,0.790,0.773,(1.5138)+(0.0015)Gln+(-0.0152)Ala+(-0.1221)Cit+(-0.0060)Arg+(0.0392)Orn+(0.0488)Ile;0.741,0.784,0.739,0.793,0.688,0.809,0.653,0.735,(-0.8141)+(0.0307)Ser+(-0.0055)Ala+(-0.0264)Arg+(-0.0532)Tyr+(-0.0119)Val+(0.0958)Phe;0.740,0.780,0.771,0.801,0.757,0.849,0.665,0.768,(2.3673)+(0.0339)Ser+(-0.1525)Asn+(0.0030)Gln+(-0.0193)Arg+(-0.0147)Val+(0.0318)Orn;0.740,0.788,0.678,0.662,0.682,0.789,0.628,0.690,(0.5879)+(0.0349)Ser+(-0.0813)Cit+(-0.0014)Arg+(-0.0446)Tyr+(-0.0234)Lys+(0.0604)Ile;0.740,0.788,0.739,0.747,0.711,0.832,0.712,0.750,(3.3072)+(0.0394)Ser+(-0.1796)Asn+(0.0113)Thr+(-0.0133)Arg+(-0.0465)Val+(0.0692)Leu;0.740,0.783,0.745,0.741,0.711,0.803,0.786,0.760,(3.1492)+(-0.0957)Asn+(0.0015)Gly+(0.0136)Orn+(-0.0061)Lys+(0.1390)Ile+(-0.0797)Leu;0.740,0.777,0.778,0.778,0.793,0.849,0.696,0.779,(4.2814)+(0.0019)Gly+(-0.0063)Ala+(-0.1081)Cit+(-0.0055)Val+(-0.1322)Met+(0.0590)Orn;0.740,0.792,0.731,0.750,0.765,0.738,0.608,0.715,(1.4979)+(0.0378)Thr+(-0.0798)Cit+(-0.0383)Tyr+(-0.3207)Met+(-0.0121)Lys+(0.1232)Phe;0.740,0.783,0.736,0.743,0.722,0.791,0.707,0.741,(-0.0671)+(0.0488)Ser+(-0.0079)Gly+(0.0015)Gln+(0.0105)Pro+(-0.2850)Met+(-0.0049)Lys;0.740,0.784,0.769,0.759,0.770,0.803,0.767,0.775,(7.1222)+(-0.1149)His+(-0.0052)Arg+(-0.0002)Tyr+(0.0009)Val+(-0.0818)Met+(0.0103)Lys;0.740,0.783,0.786,0.778,0.792,0.803,0.781,0.789,(1.3264)+(-0.0491)Asn+(0.0076)Gln+(-0.0809)Cit+(0.0014)Pro+(-0.2526)Met+(0.0507)Ile;0.740,0.786,0.720,0.705,0.757,0.780,0.638,0.720,(2.1307)+(0.0040)Gly+(0.0243)Thr+(-0.0845)Cit+(-0.0046)Arg+(-0.3398)Met+(0.0607)Ile;0.740,0.778,0.765,0.770,0.718,0.815,0.812,0.779,(1.9534)+(-0.1178)Asn+(0.0012)Gly+(0.0042)Gln+(-0.0039)Thr+(0.1434)Ile+(-0.0835)Leu;0.740,0.777,0.780,0.766,0.801,0.846,0.730,0.786,(4.6739)+(-0.0077)A

la+(-0.1121)Cit+(-0.1147)Met+(0.0599)Orn+(-0.0102)Lys+(0.0075)Leu;0.740,0.777,0.767,0.764,0.736,0.815,0.807,0.781,(2.4025)+(-0.0192)Asn+(0.0027)Gly+(-0.0077)Ala+(-0.0047)Tyr+(-0.2107)Met+(0.0663)Ile;0.740,0.782,0.705,0.716,0.701,0.811,0.606,0.709,(1.6088)+(0.0188)Ser+(-0.1011)Cit+(-0.0514)Tyr+(-0.0261)Val+(0.0503)Orn+(0.0315)Leu;0.740,0.780,0.728,0.705,0.766,0.793,0.663,0.732,(2.1045)+(0.0046)Gly+(-0.0983)Cit+(0.0015)Pro+(-0.2718)Met+(0.0290)Orn+(0.0489)Ile;0.740,0.779,0.776,0.791,0.763,0.781,0.761,0.774,(1.3426)+(-0.0049)Ala+(-0.0248)Tyr+(-0.2123)Met+(0.0241)Orn+(-0.0089)Lys+(0.0935)Phe;0.740,0.787,0.722,0.726,0.709,0.773,0.701,0.727,(-0.0025)+(0.0504)Ser+(-0.0078)Gly+(0.0107)Pro+(-0.0125)Tyr+(-0.2890)Met+(0.0048)Leu;0.740,0.783,0.761,0.787,0.752,0.864,0.639,0.760,(0.9202)+(0.0318)Ser+(0.0095)Thr+(-0.0027)Ala+(0.0077)Tyr+(-0.0034)Val+(-0.2575)Met;0.740,0.787,0.678,0.662,0.681,0.788,0.632,0.691,(0.5638)+(0.0350)Ser+(-0.0007)Thr+(-0.0823)Cit+(-0.0444)Tyr+(-0.0236)Lys+(0.0606)Ile;0.740,0.777,0.726,0.741,0.746,0.700,0.664,0.713,(0.0478)+(-0.0539)Asn+(0.0023)Gly+(0.0223)Thr+(0.0054)Pro+(-0.3610)Met+(0.0928)Phe;0.740,0.7

83,0.757,0.791,0.760,0.851,0.592,0.749,(1.6878)+(0.0314)Ser+(0.0144)Thr+(-0.0023)Ala+(-0.0164)Arg+(-0.0035)Val+(-0.2358)Met;0.740,0.783,0.754,0.783,0.760,0.841,0.599,0.746,(1.3421)+(0.0327)Ser+(0.0137)Thr+(-0.0029)Ala+(-0.0156)Arg+(-0.2399)Met+(-0.0014)Lys;0.740,0.782,0.784,0.775,0.759,0.852,0.808,0.799,(3.5288)+(-0.0038)Ala+(0.0081)Tyr+(-0.0412)Val+(-0.2311)Met+(0.0353)Orn+(0.0670)Leu;0.740,0.781,0.740,0.750,0.734,0.819,0.670,0.743,(2.4008)+(0.0293)Ser+(-0.0084)Gly+(-0.0964)Cit+(-0.0550)Tyr+(-0.0100)Val+(0.0513)Orn;0.740,0.776,0.782,0.793,0.775,0.784,0.763,0.779,(1.0497)+(-0.0472)Asn+(0.0027)Gly+(-0.0057)Ala+(-0.2284)Met+(0.0171)Orn+(0.0861)Phe;0.740,0.788,0.770,0.783,0.751,0.840,0.724,0.774,(0.7678)+(0.0422)Ser+(-0.0082)Gly+(0.0009)Gln+(-0.0071)Va

l+(-0.2452)Met+(0.0243)Orn;0.740,0.785,0.720,0.742,0.716,0.819,0.604,0.720,(0.6892)+(0.0334)Ser+(0.0038)Thr+(0.0118)Pro+(-0.0100)Val+(-0.2906)Met+(0.0161)Orn;0.740,0.784,0.756,0.752,0.742,0.811,0.759,0.766,(2.3615)+(0.0219)Thr+(-0.0079)Ala+(-0.0158)Arg+(-0.2812)Met+(0.0033)Orn+(0.0646)Ile;0.740,0.779,0.747,0.731,0.750,0.842,0.716,0.760,(1.2565)+(0.0286)Ser+(-0.0010)Gln+(-0.0136)Thr+(-0.0104)Ala+(-0.1201)Cit+(0.0546)Orn;0.740,0.779,0.769,0.787,0.749,0.759,0.769,0.766,(1.4944)+(-0.0079)Ala+(-0.0080)Arg+(0.0134)Pro+(-0.0256)Tyr+(-0.2407)Met+(0.0957)Phe;0.740,0.784,0.744,0.736,0.759,0.734,0.739,0.742,(1.2843)+(-0.0670)Cit+(0.0039)Pro+(-0.0290)Tyr+(-0.2842)Met+(0.0410)Ile+(0.0801)Phe;0.740,0.780,0.775,0.792,0.776,0.742,0.749,0.765,(-0.9714)+(-0.0600)Asn+(0.0022)Gly+(0.0054)Gln+(0.0058)Pro+(-0.3155)Met+(0.0862)Phe;0.740,0.777,0.751,0.758,0.776,0.812,0.635,0.745,(5.1929)+(-0.0791)Asn+(0.0026)Gly+(-0.1081)Cit+(-0.0352)Tyr+(0.0605)Orn+(-0.0101)Lys;0.740,0.786,0.737,0.748,0.769,0.725,0.652,0.724,(-1.4074)+(0.0050)Gln+(0.0262)Thr+(-0.0898)Cit+(0.0059)Pro+(-0.4291)Met+(0.1031)Phe;0.740,0.783,0.785,0.787,0.762,0.842,0.789,0.795,(2.4232)+(0.0029)Gln+(0.0045)Tyr+(-0.0424)Val+(-0.2708)Met+(0.0304)Orn+(0.0659)Leu;0.740,0.780,0.789,0.793,0.761,0.842,0.797,0.798,(2.5697)+(-0.0013)Gly+(0.0032)Gln+(-0.0418)Val+(-0.2618)Met+(0.0313)Orn+(0.0646)Leu;0.740,0.775,0.797,0.814,0.797,0.768,0.768,0.787,(-0.5404)+(-0.0581)Asn+(0.0017)Gly+(0.0062)Gln+(-0.2748)Met+(-0.0072)Lys+(0.0904)Phe;0.740,0.782,0.743,0.738,0.759,0.741,0.723,0.740,(-0.2141)+(0.0038)Gly+(-0.0118)Arg+(-0.3428)Met+(0.0014)Orn+(0.0436)Ile+(0.0724)Phe;0.740,0.780,0.755,0.773,0.712,0.845,0.733,0.766,(2.8936)+(0.0381)Ser+(-0.1398)Asn+(-0.0007)Thr+(-0.0071)Ala+(0.0147)Pro+(-0.0116)Val;0.740,0.790,0.734,0.735,0.779,0.741,0.632,0.722,(1.0709)+(0.0323)Thr+(-0.0799)Cit+(0.0062)Pro+(-0.3753)Met+(-0.0116)Lys+(0.1068)Phe;0.740,0.786,0.736,0.767,0.753,0.719,0.628,0.717,(-1.12

75)+(0.0053)Gln+(0.0306)Thr+(-0.0896)Cit+(-0.0378)Tyr+(-0.3775)Met+(0.1202)Phe;0.740,0.784,0.721,0.744,0.717,0.810,0.606,0.719,(0.8536)+(0.0345)Ser+(0.0069)Thr+(0.0125)Pro+(-0.0019)Tyr+(-0.0084)Val+(-0.2933)Met;0.740,0.787,0.692,0.672,0.678,0.782,0.710,0.711,(-1.6225)+(0.0486)Ser+(-0.1604)Asn+(0.0011)Gln+(-0.0216)Lys+(0.0342)Ile+(0.0462)Phe;0.740,0.785,0.738,0.735,0.735,0.799,0.710,0.745,(0.1019)+(0.0487)Ser+(-0.0078)Gly+(-0.2559)Met+(0.0207)Orn+(-0.0098)Lys+(0.0101)Leu;0.740,0.778,0.795,0.814,0.801,0.767,0.755,0.784,(-0.5574)+(-0.0557)Asn+(0.0067)Gln+(-0.0161)Arg+(-0.2788)Met+(0.0123)Orn+(0.0821)Phe;0.740,0.778,0.768,0.766,0.793,0.841,0.665,0.766,(3.9024)+(0.0016)Gly+(0.0144)Thr+(-0.0072)Ala+(-0.1128)Cit+(-0.1910)Met+(0.0497)Orn;0.740,0.792,0.692,0.692,0.663,0.782,0.688,0.706,(0.6567)+(0.0433)Ser+(-0.1199)Asn+(0.0017)Pro+(-0.0412)Tyr+(-0.0141)Lys+(0.0495)Ile;0.740,0.788,0.749,0.763,0.726,0.812,0.717,0.754,(0.6579)+(0.0464)Ser+(-0.0081)Gly+(0.0015)Gln+(0.0131)Pro+(-0.0085)Val+(-0.2798)Met;0.740,0.785,0.749,0.772,0.739,0.846,0.639,0.749,(0.7328)+(0.0320)Ser+(0.0060)Thr+(-0.0036)Ala+(-0.2301)Met+(0.0206)Orn+(-0.0063)Lys;0.740,0.781,0.724,0.743,0.743,0.828,0.559,0.718,(2.1963)+(0.0209)Ser+(-0.0924)Cit+(-0.0158)Arg+(-0.0448)Tyr+(-0.0098)Val+(0.0515)Orn;0.740,0.779,0.778,0.822,0.754,0.768,0.718,0.765,(0.7143)+(-0.1390)Asn+(0.0035)Gly+(0.0079)Gln+(-0.0883)Cit+(-0.0620)Tyr+(0.0841)Phe;0.740,0.778,0.745,0.764,0.761,0.711,0.685,0.730,(0.7029)+(-0.0568)Asn+(0.0236)Thr+(0.0068)Pro+(-0.3341)Met+(-0.0146)Leu+(0.1035)Phe;0.740,0.785,0.759,0.757,0.757,0.739,0.785,0.759,(-1.7061)+(0.0045)Gln+(0.0027)Pro+(-0.3873)Met+(-0.0068)Orn+(0.0410)Ile+(0.0721)Phe;0.740,0.782,0.789,0.795,0.753,0.828,0.821,0.799,(1.1216)+(0.0049)Gln+(-0.0076)Ala+(-0.0124)Arg+(-0.0052)Tyr+(-0.2363)Met+(0.0647)Ile;0.740,0.786,0.732,0.730,0.727,0.774,0.719,0.737,(-0.2758)+(0.0557)Ser+(-0.1460)Asn+(-0.0056)Gly+(-0.0142)Arg+(-0.0145)Lys+(0.0638)Phe;

0.740,0.783,0.740,0.757,0.731,0.822,0.657,0.742,(-0.2037)+(0.0351)Ser+(0.0003)Gln+(0.0090)Thr+(-0.0040)Ala+(-0.2856)Met+(0.0133)Leu;0.740,0.781,0.804,0.847,0.783,0.776,0.757,0.791,(1.1547)+(-0.1287)Asn+(0.0086)Gln+(-0.0799)Cit+(-0.0616)Tyr+(-0.0153)Leu+(0.0989)Phe;0.740,0.788,0.707,0.685,0.650,0.792,0.820,0.737,(-1.3504)+(0.0423)Ser+(-0.0069)Gly+(-0.0279)Thr+(0.0087)Orn+(0.1613)Ile+(-0.0933)Leu;0.740,0.779,0.735,0.749,0.764,0.717,0.653,0.721,(0.7159)+(-0.0390)Asn+(0.0285)Thr+(-0.0186)Arg+(0.0055)Pro+(-0.3599)Met+(0.0937)Phe;0.740,0.785,0.748,0.773,0.735,0.841,0.645,0.749,(0.3601)+(0.0322)Ser+(0.0000)Gln+(0.0050)Thr+(-0.0037)Ala+(-0.2508)Met+(0.0173)Orn;0.740,0.784,0.742,0.756,0.735,0.825,0.659,0.744,(-0.2041)+(0.0359)Ser+(0.0089)Thr+(-0.0041)Ala+(0.0040)Tyr+(-0.2900)Met+(0.0133)Leu;0.740,0.781,0.769,0.740,0.795,0.833,0.743,0.778,(2.4606)+(-0.1072)Asn+(0.0062)Gln+(-0.1132)Cit+(0.0431)Orn+(-0.0212)Lys+(0.0319)Ile;0.740,0.781,0.757,0.778,0.770,0.762,0.668,0.745,(0.2753)+(0.0017)Gly+(0.0292)Thr+(-0.0055)Ala+(-0.0204)Arg+(-0.3427)Met+(0.1043)Phe;0.740,0.779,0.759,0.740,0.780,0.800,0.735,0.764,(1.0483)+(0.0049)Gln+(-0.0955)Cit+(0.0010)Pro+(-0.2910)Met+(0.0240)Orn+(0.0478)Ile;0.740,0.777,0.771,0.770,0.758,0.832,0.758,0.780,(3.8194)+(-0.0001)Gly+(-0.0093)Arg+(-0.0407)Val+(-0.2272)Met+(0.0380)Orn+(0.0623)Leu;0.740,0.783,0.769,0.777,0.773,0.826,0.696,0.768,(4.7875)+(0.0223)Thr+(-0.0088)Ala+(-0.0796)Cit+(0.0155)Pro+(-0.0120)Tyr+(-0.2144)Met;0.740,0.783,0.762,0.760,0.722,0.839,0.792,0.778,(2.2302)+(0.0480)Ser+(-0.1198)Asn+(-0.0063)Gly+(-0.0085)Ala+(0.0120)Pro+(-0.0089)Lys;0.740,0.781,0.701,0.689,0.653,0.816,0.753,0.728,(-1.7557)+(0.0347)Ser+(-0.0026)Gln+(-0.0133)Ala+(-0.0283)Arg+(0.0487)Ile+(0.0273)Phe;0.740,0.779,0.697,0.709,0.666,0.762,0.684,0.705,(0.1358)+(0.0402)Ser+(-0.1539)Asn+(0.0010)Gln+(-0.0500)Tyr+(0.0098)Orn+(0.0388)Ile;0.740,0.784,0.735,0.743,0.732,0.792,0.682,0.737,(0.6455)+(0.0511)Ser+(-0.0073)Gly

+(-0.0134)Arg+(0.0112)Pro+(-0.2714)Met+(-0.0021)Lys;0.740,0.788,0.727,0.736,0.778,0.753,0.574,0.711,(0.4889)+(0.0048)Gly+(0.0323)Thr+(-0.0891)Cit+(-0.3705)Met+(-0.0114)Lys+(0.1166)Phe;0.740,0.783,0.746,0.737,0.760,0.737,0.745,0.745,(1.1358)+(-0.0728)Cit+(0.0053)Arg+(-0.0266)Tyr+(-0.2839)Met+(0.0457)Ile+(0.0792)Phe;0.740,0.782,0.770,0.757,0.777,0.806,0.763,0.776,(7.2215)+(-0.1107)His+(-0.0247)Cit+(0.0005)Tyr+(0.0020)Val+(-0.0838)Met+(0.0086)Lys;0.740,0.780,0.745,0.730,0.767,0.796,0.703,0.749,(3.1704)+(-0.0169)Asn+(0.0055)Gly+(-0.0750)Cit+(-0.2172)Met+(-0.0086)Lys+(0.0629)Ile;0.740,0.780,0.705,0.698,0.647,0.811,0.767,0.731,(-2.2516)+(0.0308)Ser+(-0.0147)Ala+(-0.0318)Arg+(0.0061)Pro+(0.0422)Ile+(0.0231)Phe;0.740,0.784,0.770,0.760,0.771,0.805,0.766,0.776,(7.1740)+(-0.0019)Asn+(-0.1136)His+(-0.0055)Arg+(0.0003)Tyr+(-0.0798)Met+(0.0107)Lys;0.740,0.778,0.784,0.787,0.743,0.822,0.832,0.796,(3.7261)+(-0.1441)Asn+(-0.0055)Ala+(-0.0442)Val+(0.0370)Orn+(0.0520)Leu+(0.0638)Phe;0.740,0.778,0.783,0.794,0.751,0.814,0.797,0.789,(2.6182)+(-0.0003)Gly+(0.0042)Gln+(0.0102)Pro+(-0.0386)Val+(-0.2846)Met+(0.0596)Leu;0.740,0.786,0.748,0.753,0.750,0.802,0.691,0.749,(0.3530)+(0.0481)Ser+(-0.0075)Gly+(-0.0149)Arg+(-0.2602)Met+(0.0204)Orn+(0.0046)Leu;0.740,0.782,0.764,0.771,0.774,0.821,0.686,0.763,(1.9488)+(0.0451)Ser+(-0.0058)Gly+(-0.0583)Cit+(-0.0025)Arg+(-0.2137)Met+(-0.0022)Lys;0.740,0.778,0.771,0.768,0.757,0.834,0.761,0.780,(3.8533)+(-0.0084)Arg+(-0.0403)Val+(-0.2237)Met+(0.0385)Orn+(-0.0020)Lys+(0.0626)Leu;0.740,0.783,0.764,0.778,0.780,0.834,0.642,0.758,(0.8245)+(0.0347)Ser+(0.0030)Gln+(-0.0732)Cit+(0.0087)Tyr+(-0.2421)Met+(-0.0037)Lys;0.740,0.779,0.796,0.816,0.793,0.779,0.759,0.787,(-0.5012)+(0.0069)Gln+(-0.0689)Cit+(-0.0107)Val+(-0.2941)Met+(-0.0030)Lys+(0.1150)Phe;0.740,0.782,0.747,0.786,0.741,0.708,0.688,0.731,(-0.5706)+(-0.0845)Asn+(0.0053)Gln+(0.0267)Thr+(-0.0417)Tyr+(-0.2986)Met+(0.1053)Phe;0.740,0.788,0.676,0.661,

0.681,0.787,0.629,0.690,(0.5888)+(0.0347)Ser+(-0.0826)Cit+(0.0002)Pro+(-0.0450)Tyr+(-0.0238)Lys+(0.0604)Ile;0.740,0.787,0.767,0.783,0.755,0.840,0.694,0.768,(1.4039)+(0.0423)Ser+(-0.0080)Gly+(0.0122)Thr+(-0.0039)Val+(-0.2581)Met+(-0.0033)Lys;0.740,0.782,0.734,0.725,0.745,0.732,0.735,0.734,(-0.6448)+(0.0036)Gly+(0.0032)Pro+(-0.3715)Met+(-0.0036)Orn+(0.0416)Ile+(0.0740)Phe;0.740,0.782,0.756,0.762,0.721,0.810,0.779,0.768,(1.0147)+(0.0028)Gln+(0.0167)Thr+(-0.0078)Ala+(-0.0113)Tyr+(-0.2911)Met+(0.0656)Ile;0.740,0.784,0.772,0.759,0.780,0.813,0.765,0.779,(7.4108)+(-0.1075)His+(-0.0302)Cit+(0.0049)Arg+(0.0025)Tyr+(0.0037)Val+(-0.0657)Met;0.740,0.783,0.732,0.749,0.770,0.734,0.606,0.715,(-1.7228)+(0.0039)Gly+(0.0046)Gln+(0.0264)Thr+(-0.0953)Cit+(-0.4216)Met+(0.1118)Phe;0.740,0.779,0.807,0.829,0.794,0.789,0.791,0.801,(-0.5325)+(0.0058)Gln+(-0.0047)Ala+(-0.0122)Arg+(-0.2726)Met+(-0.0053)Lys+(0.0951)Phe;0.740,0.782,0.714,0.707,0.730,0.697,0.712,0.711,(-0.8574)+(0.0240)Thr+(0.0023)Pro+(-0.4366)Met+(-0.0129)Orn+(0.0433)Ile+(0.0793)Phe;0.740,0.781,0.764,0.781,0.778,0.835,0.637,0.758,(1.0332)+(0.0337)Ser+(0.0031)Gln+(-0.0720)Cit+(-0.0004)Val+(-0.2256)Met+(-0.0032)Lys;0.740,0.779,0.749,0.734,0.750,0.841,0.722,0.762,(0.9307)+(0.0279)Ser+(-0.0143)Thr+(-0.0107)Ala+(-0.1211)Cit+(0.0536)Orn+(0.0010)Leu;0.740,0.778,0.761,0.745,0.783,0.803,0.729,0.765,(1.0700)+(0.0051)Gln+(-0.0931)Cit+(-0.0040)Arg+(-0.2847)Met+(0.0246)Orn+(0.0485)Ile;0.740,0.775,0.790,0.816,0.782,0.777,0.746,0.780,(1.1284)+(0.0028)Gly+(-0.0029)Ala+(-0.0083)Arg+(-0.0121)Val+(-0.2519)Met+(0.1154)Phe;0.739,0.784,0.739,0.751,0.736,0.827,0.651,0.741,(0.2289)+(0.0360)Ser+(0.0116)Thr+(-0.0040)Ala+(-0.2672)Met+(-0.0083)Lys+(0.0172)Leu;0.739,0.780,0.742,0.749,0.726,0.759,0.748,0.745,(-0.3776)
+(0.0517)Ser+(-0.1766)Asn+(-0.0051)Gly+(-0.0045)Thr+(-0.0187)Leu+(0.0712)Phe;0.739,0.782,0.730,0.704,0.728,0.827,0.734,0.748,(2.9994)+(-0.

0061)Thr+(-0.1085)Cit+(0.0444)Orn+(-0.0148)Lys+(0.1475)Ile+(-0.0815)Leu;0.739,0.781,0.694,0.714,0.696,0.767,0.588,0.691,(-0.5496)+(0.0350)Ser+(0.0031)Thr+(-0.0861)Cit+(-0.0653)Tyr+(-0.0222)Lys+(0.0933)Phe;0.739,0.774,0.748,0.714,0.734,0.830,0.804,0.770,(2.0557)+(-0.0040)Thr+(-0.0164)Ala+(-0.1244)Cit+(0.0066)Pro+(0.0405)Orn+(0.0453)Ile;0.739,0.783,0.746,0.730,0.774,0.802,0.692,0.750,(0.8632)+(0.0033)Gly+(0.0042)Gln+(-0.1000)Cit+(-0.2926)Met+(0.0238)Orn+(0.0515)Ile;0.739,0.781,0.783,0.809,0.787,0.777,0.714,0.771,(-0.9793)+(0.0037)Gly+(0.0060)Gln+(-0.0740)Cit+(-0.0113)Val+(-0.3088)Met+(0.1206)Phe;0.739,0.782,0.745,0.772,0.756,0.754,0.649,0.732,(3.8546)+(-0.1112)Asn+(0.0274)Thr+(-0.0757)Cit+(-0.0709)Tyr+(-0.0141)Lys+(0.0932)Phe;0.739,0.779,0.730,0.741,0.758,0.728,0.647,0.718,(0.4978)+(0.0288)Thr+(-0.0172)Arg+(0.0062)Pro+(-0.3778)Met+(-0.0092)Lys+(0.1008)Phe;0.739,0.785,0.720,0.727,0.722,0.777,0.655,0.720,(-0.6295)+(0.0483)Ser+(-0.1527)Asn+(0.0009)Thr+(-0.0157)Arg+(-0.0133)Lys+(0.0658)Phe;0.739,0.781,0.730,0.761,0.704,0.808,0.646,0.730,(3.1632)+(0.0346)Ser+(-0.1529)Asn+(0.0100)Pro+(-0.0319)Tyr+(-0.0153)Val+(0.0302)Orn;0.739,0.785,0.749,0.773,0.737,0.841,0.647,0.749,(0.3187)+(0.0325)Ser+(0.0049)Thr+(-0.0038)Ala+(0.0021)Tyr+(-0.2537)Met+(0.0171)Orn;0.739,0.783,0.723,0.746,0.717,0.811,0.609,0.721,(0.7241)+(0.0343)Ser+(0.0003)Gln+(0.0066)Thr+(0.0124)Pro+(-0.0085)Val+(-0.2970)Met;0.739,0.782,0.803,0.844,0.748,0.783,0.827,0.800,(2.2747)+(-0.1575)Asn+(0.0063)Gln+(-0.0482)Tyr+(-0.0362)Val+(0.0404)Leu+(0.0875)Phe;0.739,0.779,0.739,0.728,0.728,0.843,0.718,0.754,(1.6150)+(0.0324)Ser+(-0.0119)Ala+(-0.0896)Cit+(0.0131)Pro+(-0.0170)Lys+(0.0099)Leu;0.739,0.780,0.695,0.707,0.660,0.758,0.688,0.703,(0.1105)+(0.0404)Ser+(-0.1521)Asn+(0.0013)Gln+(0.0017)Pro+(-0.0498)Tyr+(0.0397)Ile;0.739,0.772,0.768,0.777,0.782,0.758,0.725,0.761,(1.1125)+(-0.0394)Asn+(0.0024)Gly+(-0.2548)Met+(0.0182)Orn+(-0.0083)Lys+(0.0853)Phe;0.739,0.792,

0.695,0.695,0.666,0.786,0.689,0.709,(0.6859)+(0.0429)Ser+(-0.1201)Asn+(0.0012)Thr+(-0.0403)Tyr+(-0.0144)Lys+(0.0515)Ile;0.739,0.776,0.805,0.824,0.805,0.772,0.777,0.794,(-0.3959)+(-0.0518)Asn+(0.0072)Gln+(-0.0113)Arg+(-0.2693)Met+(-0.0055)Lys+(0.0890)Phe;0.739,0.788,0.679,0.664,0.682,0.789,0.632,0.692,(0.5290)+(0.0343)Ser+(0.0003)Gln+(-0.0831)Cit+(-0.0450)Tyr+(-0.0239)Lys+(0.0605)Ile;0.739,0.780,0.766,0.769,0.721,0.815,0.819,0.781,(2.0322)+(-0.1158)Asn+(0.0040)Gln+(-0.0047)Thr+(0.0087)Orn+(0.1410)Ile+(-0.0839)Leu;0.739,0.781,0.767,0.747,0.783,0.844,0.732,0.776,(2.6702)+(0.0067)Thr+(-0.0114)Ala+(-0.1290)Cit+(0.0597)Orn+(-0.0216)Lys+(0.0551)Phe;0.739,0.779,0.785,0.799,0.792,0.778,0.737,0.777,(-0.6454)+(0.0053)Gln+(-0.0145)Arg+(-0.3025)Met+(0.0163)Orn+(-0.0089)Lys+(0.0875)Phe;0.739,0.778,0.787,0.792,0.775,0.816,0.779,0.790,(2.8336)+(0.0055)Gln+(-0.0557)Cit+(0.0099)Pro+(-0.0336)Val+(-0.2712)Met+(0.0538)Leu;0.739,0.782,0.750,0.773,0.747,0.754,0.692,0.741,(0.7528)+(0.0299)Thr+(-0.0045)Ala+(-0.0313)Tyr+(-0.3001)Met+(-0.0107)Lys+(0.1144)Phe;0.739,0.780,0.800,0.806,0.807,0.854,0.728,0.799,(4.2235)+(-0.1259)Asn+(0.0060)Gln+(-0.1049)Cit+(-0.0130)Val+(0.0592)Orn+(-0.0071)Lys;0.739,0.780,0.790,0.826,0.771,0.757,0.758,0.778,(-0.5598)+(0.0005)Gly+(0.0048)Gln+(-0.0210)Tyr+(-0.0136)Val+(-0.2853)Met+(0.1187)Phe;0.739,0.779,0.775,0.778,0.735,0.820,0.822,0.789,(0.8845)+(0.0011)Gly+(0.0036)Gln+(-0.0079)Ala+(-0.0046)Tyr+(-0.2527)Met+(0.0660)Ile;0.739,0.776,0.783,0.775,0.794,0.845,0.735,0.787,(5.1352)+(-0.0959)Asn+(0.0085)Thr+(-0.0090)Ala+(-0.1155)Cit+(0.0559)Orn+(-0.0031)Leu;0.739,0.783,0.671,0.693,0.684,0.750,0.529,0.664,(-1.1744)+(0.0290)Ser+(-0.0970)Cit+(-0.0191)Arg+(-0.0804)Tyr+(0.0352)Orn+(0.0688)Phe;0.739,0.781,0.691,0.678,0.638,0.792,0.767,0.719,(-0.9973)+(0.0353)Ser+(-0.0017)Gln+(-0.0253)Thr+(-0.0034)Pro+(0.1695)Ile+(-0.0922)Leu;0.739,0.779,0.744,0.764,0.743,0.724,0.711,0.736,(0.7689)+(0.0022)Gly+(0.0087)Pro+(-0.0

296)Tyr+(-0.2831)Met+(-0.0072)Lys+(0.1001)Phe;0.739,0.778,0.752,0.725,0.784,0.794,0.725,0.757,(3.1603)+(-0.0296)Asn+(-0.0942)Cit+(0.0034)Arg+(-0.2273)Met+(0.0334)Orn+(0.0427)Ile;0.739,0.786,0.704,0.710,0.755,0.720,0.569,0.689,(-0.4338)+(0.0056)Gly+(0.0277)Thr+(-0.0924)Cit+(0.0070)Pro+(-0.4246)Met+(0.1102)Phe;0.739,0.784,0.756,0.774,0.760,0.812,0.660,0.751,(1.4165)+(0.0440)Ser+(-0.0080)Gly+(0.0149)Thr+(-0.0164)Arg+(-0.0059)Tyr+(-0.2635)Met;0.739,0.781,0.761,0.744,0.776,0.845,0.713,0.769,(2.1389)+(0.0036)Gly+(-0.0112)Ala+(-0.1320)Cit+(0.0611)Orn+(-0.0200)Lys+(0.0589)Phe;0.739,0.785,0.733,0.744,0.728,0.785,0.678,0.734,(0.8193)+(0.0508)Ser+(-0.0077)Gly+(-0.0142)Arg+(0.0118)Pro+(-0.0122)Tyr+(-0.2583)Met;0.739,0.783,0.753,0.744,0.767,0.741,0.757,0.752,(0.4196)+(-0.0106)Arg+(0.0032)Pro+(-0.3364)Met+(0.0040)Orn+(0.0370)Ile+(0.0679)Phe;0.739,0.783,0.761,0.794,0.746,0.860,0.636,0.759,(0.7918)+(0.0301)Ser+(0.0010)Gln+(0.0095)Thr+(-0.0026)Ala+(-0.0033)Val+(-0.2507)Met;0.739,0.773,0.761,0.739,0.779,0.792,0.760,0.767,(3.7274)+(-0.0070)Asn+(-0.0644)Cit+(0.0020)Pro+(-0.2223)Met+(-0.0084)Lys+(0.0569)Ile;0.739,0.781,0.786,0.786,0.784,0.804,0.778,0.788,(1.5930)+(-0.0526)Asn+(0.0078)Gln+(-0.0801)Cit+(-0.0165)Tyr+(-0.2183)Met+(0.0532)Ile;0.739,0.783,0.760,0.778,0.723,0.841,0.730,0.768,(1.3300)+(0.0381)Ser+(-0.1330)Asn+(0.0020)Gln+(-0.0087)Ala+(-0.0158)Arg+(0.0114)Pro;0.739,0.783,0.758,0.784,0.747,0.849,0.645,0.757,(0.3189)+(0.0323)Ser+(0.0008)Gln+(0.0083)Thr+(-0.0033)Ala+(0.0057)Tyr+(-0.2653)Met;0.739,0.782,0.700,0.715,0.703,0.776,0.598,0.698,(-0.4712)+(0.0384)Ser+(0.0059)Thr+(0.0096)Pro+(-0.0074)Tyr+(-0.3214)Met+(0.0059)Leu;0.739,0.779,0.802,0.832,0.793,0.779,0.760,0.791,(-0.5810)+(0.0059)Gln+(-0.0153)Arg+(-0.0143)Val+(-0.3016)Met+(0.0017)Lys+(0.1135)Phe;0.739,0.779,0.765,0.785,0.778,0.831,0.638,0.758,(1.0105)+(0.0335)Ser+(0.0031)Gln+(-0.0679)Cit+(-0.0049)Arg+(-0.0013)Val+(-0.2298)Met;0.739,0.785,0.758,0.783,0.741,0.85

6,0.661,0.760,(0.8073)+(0.0311)Ser+(0.0002)Gln+(-0.0031)Ala+(-0.0054)Val+(-0.2223)Met+(0.0239)Orn;0.739,0.777,0.749,0.775,0.765,0.724,0.667,0.733,(0.6068)+(-0.0635)Asn+(0.0019)Gly+(0.0245)Thr+(-0.3177)Met+(-0.0117)Leu+(0.1044)Phe;0.739,0.779,0.683,0.675,0.678,0.762,0.656,0.693,(0.1663)+(0.0329)Ser+(-0.0071)Gly+(-0.0983)Cit+(-0.0756)Tyr+(0.0315)Orn+(0.0331)Ile;0.739,0.785,0.710,0.723,0.652,0.816,0.721,0.728,(-0.5037)+(0.0298)Ser+(-0.0102)Ala+(-0.0262)Arg+(-0.0427)Tyr+(0.0085)Orn+(0.0557)Ile;0.739,0.786,0.745,0.749,0.737,0.799,0.713,0.750,(-0.4429)+(0.0471)Ser+(-0.0077)Gly+(0.0007)Gln+(-0.2873)Met+(0.0153)Orn+(0.0062)Leu;0.739,0.779,0.703,0.706,0.618,0.798,0.802,0.731,(-0.3769)+(0.0362)Ser+(-0.0086)Gly+(-0.0119)Ala+(0.0082)Pro+(-0.0577)Tyr+(0.0472)Ile;0.739,0.781,0.777,0.765,0.782,0.818,0.767,0.783,(7.5772)+(-0.0014)Asn+(-0.1031)His+(-0.0278)Cit+(0.0039)Arg+(0.0057)Tyr+(-0.0594)Met;0.739,0.778,0.801,0.822,0.804,0.773,0.762,0.790,(-0.3479)+(-0.0692)Asn+(0.0087)Gln+(-0.0783)Cit+(-0.2482)Met+(-0.0084)Leu+(0.1004)Phe;0.739,0.781,0.751,0.781,0.732,0.828,0.655,0.749,(3.0839)+(0.0335)Ser+(-0.1482)Asn+(0.0009)Thr+(-0.0245)Tyr+(-0.0123)Val+(0.0328)Orn;0.739,0.781,0.764,0.785,0.717,0.849,0.744,0.774,(2.4584)+(0.0361)Ser+(-0.1503)Asn+(0.0020)Gln+(-0.0070)Ala+(0.0141)Pro+(-0.0120)Val;0.739,0.786,0.748,0.762,0.735,0.814,0.691,0.751,(1.5892)+(0.0493)Ser+(-0.0077)Gly+(-0.0147)Arg+(0.0137)Pro+(-0.0085)Val+(-0.2513)Met;0.739,0.780,0.760,0.766,0.712,0.810,0.808,0.774,(1.9421)+(-0.0122)Ala+(-0.0874)Cit+(-0.0012)Arg+(-0.0491)Tyr+(0.0543)Ile+(0.0499)Phe;0.739,0.785,0.749,0.770,0.752,0.815,0.638,0.744,(3.1476)+(0.0391)Ser+(-0.1154)Asn+(-0.0653)Cit+(0.0003)Arg+(-0.0212)Tyr+(-0.0050)Lys;0.739,0.783,0.753,0.769,0.746,0.799,0.689,0.751,(3.2983)+(0.0436)Ser+(-0.1274)Asn+(-0.0054)Gly+(0.0060)Thr+(-0.0600)Cit+(-0.0339)Tyr;0.739,0.783,0.713,0.716,0.717,0.773,0.655,0.715,(-0.7280)+(0.0490)Ser+(-0.1524)Asn+(-0.0161)Arg+(0.0030)Pro+(

-0.0139)Lys+(0.0635)Phe;0.739,0.782,0.701,0.720,0.700,0.772,0.598,0.6
98,(-0.7304)+(0.0355)Ser+(0.0005)Gln+(-0.0862)Cit+(-0.0636)Tyr+(-0.02
14)Lys+(0.0924)Phe;0.739,0.781,0.764,0.769,0.774,0.823,0.689,0.764,(1
.8267)+(0.0450)Ser+(-0.0056)Gly+(-0.0607)Cit+(0.0045)Tyr+(-0.2232)Met
+(-0.0028)Lys;0.739,0.777,0.796,0.821,0.792,0.773,0.754,0.785,(-0.574
5)+(0.0070)Gln+(-0.0646)Cit+(-0.0051)Arg+(-0.0116)Val+(-0.2968)Met+(0
.1154)Phe;0.739,0.792,0.669,0.621,0.706,0.815,0.611,0.688,(-0.0568)+(
0.0333)Ser+(-0.1213)Cit+(-0.0057)Pro+(0.0433)Orn+(-0.0348)Lys+(0.0536
)Ile;0.739,0.779,0.758,0.742,0.770,0.853,0.710,0.769,(3.9138)+(0.0028
)Gly+(-0.0127)Ala+(-0.1290)Cit+(0.0107)Pro+(0.0608)Orn+(-0.0157)Lys;0
.739,0.786,0.744,0.773,0.756,0.841,0.569,0.735,(1.4969)+(0.0304)Ser+(
0.0101)Thr+(-0.0198)Arg+(-0.0077)Val+(-0.2416)Met+(0.0244)Orn;0.739,0
.781,0.780,0.777,0.778,0.789,0.784,0.782,(1.9253)+(-0.0092)Ala+(-0.07
30)Cit+(0.0052)Arg+(0.0134)Pro+(-0.2491)Met+(0.0906)Phe;0.739,0.787,0
.743,0.753,0.725,0.809,0.709,0.749,(1.0722)+(0.0478)Ser+(-0.0078)Gly+
(0.0132)Pro+(-0.0082)Val+(-0.2714)Met+(-0.0004)Lys;0.739,0.786,0.718,
0.708,0.747,0.778,0.639,0.718,(2.3274)+(0.0034)Gly+(0.0246)Thr+(-0.08
59)Cit+(-0.0165)Tyr+(-0.3200)Met+(0.0621)Ile;0.739,0.782,0.760,0.754,
0.805,0.824,0.639,0.755,(4.9101)+(-0.0567)Asn+(0.0198)Thr+(-0.1031)Ci
t+(-0.1762)Met+(0.0478)Orn+(-0.0094)Lys;0.739,0.779,0.806,0.855,0.766
,0.771,0.787,0.795,(1.8055)+(-0.1402)Asn+(0.0004)Gly+(0.0060)Gln+(-0.
0536)Tyr+(-0.0171)Val+(0.1000)Phe;0.739,0.771,0.750,0.722,0.738,0.826
,0.791,0.770,(1.5273)+(-0.0154)Ala+(-0.1215)Cit+(-0.0049)Arg+(0.0396)
Orn+(0.0456)Ile+(0.0170)Phe;0.739,0.770,0.750,0.722,0.735,0.828,0.799
,0.771,(1.0355)+(0.0009)Gln+(-0.0159)Ala+(-0.1270)Cit+(0.0381)Orn+(0.
0467)Ile+(0.0148)Phe;0.739,0.777,0.749,0.772,0.766,0.743,0.656,0.734,
(-1.0506)+(0.0050)Gln+(0.0286)Thr+(-0.0220)Arg+(-0.3836)Met+(-0.0095)
Lys+(0.1033)Phe;0.739,0.781,0.764,0.741,0.772,0.843,0.753,0.777,(2.86

84)+(-0.0133)Ala+(-0.1262)Cit+(0.0088)Pro+(0.0584)Orn+(-0.0200)Lys+(0.0501)Phe;0.739,0.781,0.765,0.779,0.780,0.833,0.646,0.759,(0.8075)+(0.0342)Ser+(0.0028)Gln+(-0.0716)Cit+(0.0090)Tyr+(-0.0015)Val+(-0.2516)Met;0.739,0.773,0.791,0.820,0.779,0.757,0.763,0.780,(2.6991)+(-0.0540)Asn+(-0.0035)Arg+(-0.0239)Tyr+(-0.0141)Val+(-0.1777)Met+(0.1174)Phe;0.739,0.771,0.756,0.730,0.738,0.833,0.805,0.776,(1.4792)+(0.0016)Gln+(-0.0046)Thr+(-0.0152)Ala+(-0.1258)Cit+(0.0406)Orn+(0.0495)Ile;0.739,0.778,0.744,0.746,0.725,0.805,0.734,0.752,(3.4021)+(-0.0786)Asn+(0.0024)Gly+(-0.0260)Arg+(0.0191)Orn+(0.1511)Ile+(-0.0890)Leu;0.739,0.778,0.826,0.846,0.796,0.834,0.827,0.826,(1.8680)+(-0.1372)Asn+(0.0075)Gln+(-0.0060)Ala+(-0.0750)Cit+(-0.0125)Val+(0.0834)Phe;0.739,0.783,0.761,0.772,0.757,0.814,0.699,0.760,(0.2528)+(0.0456)Ser+(-0.0080)Gly+(0.0017)Gln+(-0.0169)Arg+(-0.2535)Met+(0.0209)Orn;0.739,0.778,0.783,0.777,0.799,0.852,0.717,0.786,(4.8785)+(-0.0062)Ala+(-0.1081)Cit+(-0.0046)Val+(-0.1092)Met+(0.0630)Orn+(-0.0064)Lys;0.739,0.787,0.729,0.737,0.714,0.783,0.700,0.733,(0.5614)+(0.0497)Ser+(-0.0079)Gly+(0.0114)Pro+(-0.0110)Tyr+(-0.2630)Met+(-0.0039)Lys;0.739,0.779,0.774,0.766,0.766,0.805,0.792,0.782,(1.2581)+(-0.0346)Asn+(0.0053)Gln+(-0.2499)Met+(0.0086)Orn+(-0.0121)Lys+(0.0530)Ile;0.739,0.788,0.765,0.783,0.751,0.847,0.690,0.768,(1.8762)+(0.0375)Ser+(-0.1293)Asn+(-0.0059)Ala+(-0.0158)Arg+(0.0249)Orn+(-0.0025)Leu;0.739,0.785,0.732,0.713,0.764,0.778,0.681,0.734,(2.6221)+(0.0259)Thr+(-0.0776)Cit+(-0.0052)Arg+(0.0015)Pro+(-0.3360)Met+(0.0556)Ile;0.739,0.784,0.721,0.746,0.714,0.729,0.668,0.714,(2.1954)+(-0.1041)Asn+(0.0057)Gly+(-0.0817)Cit+(-0.0600)Tyr+(0.0321)Ile+(0.0641)Phe;0.739,0.776,0.735,0.727,0.722,0.851,0.698,0.749,(1.3944)+(0.0210)Ser+(-0.0132)Ala+(-0.1191)Cit+(0.0119)Pro+(-0.0082)Val+(0.0478)Orn;0.739,0.784,0.740,0.756,0.728,0.826,0.662,0.743,(-0.2192)+(0.0348)Ser+(0.0061)Thr+(-0.0043

)Ala+(-0.2765)Met+(0.0128)Orn+(0.0110)Leu;0.739,0.778,0.755,0.746,0.754,0.846,0.710,0.764,(1.4359)+(0.0258)Ser+(-0.0128)Thr+(-0.0093)Ala+(-0.1165)Cit+(-0.0053)Val+(0.0568)Orn;0.739,0.784,0.681,0.662,0.632,0.787,0.760,0.710,(-1.0237)+(0.0362)Ser+(-0.0023)Gln+(-0.0277)Thr+(0.0094)Orn+(0.1627)Ile+(-0.0924)Leu;0.739,0.785,0.714,0.724,0.652,0.818,0.746,0.735,(-0.7405)+(0.0336)Ser+(-0.0063)Thr+(-0.0101)Ala+(-0.0221)Arg+(-0.0369)Tyr+(0.0600)Ile;0.739,0.772,0.714,0.699,0.704,0.813,0.707,0.731,(1.3555)+(0.0014)Gly+(-0.1128)Cit+(-0.0085)Pro+(0.0345)Orn+(0.1635)Ile+(-0.0923)Leu;0.739,0.785,0.762,0.767,0.740,0.823,0.751,0.770,(0.1247)+(0.0472)Ser+(-0.0065)Gly+(-0.0034)Ala+(0.0009)Tyr+(-0.2535)Met+(0.0120)Leu;0.739,0.782,0.753,0.784,0.737,0.744,0.710,0.744,(-1.0400)+(0.0031)Gln+(0.0244)Thr+(-0.0050)Ala+(-0.0295)Tyr+(-0.3392)Met+(0.1082)Phe;0.739,0.779,0.773,0.767,0.756,0.835,0.779,0.784,(3.6994)+(-0.0004)Gly+(-0.0408)Val+(-0.2315)Met+(0.0369)Orn+(-0.0041)Lys+(0.0648)Leu;0.739,0.776,0.748,0.766,0.757,0.739,0.690,0.738,(-1.1202)+(-0.0000)Gly+(0.0040)Gln+(0.0235)Thr+(-0.3792)Met+(-0.0129)Lys+(0.1009)Phe;0.739,0.774,0.736,0.744,0.709,0.826,0.707,0.747,(1.7331)+(0.0299)Ser+(-0.0068)Thr+(-0.0109)Ala+(-0.0836)Cit+(0.0158)Pro+(-0.0314)Tyr;0.739,0.777,0.773,0.788,0.789,0.775,0.696,0.762,(-1.0738)+(0.0040)Gly+(0.0066)Gln+(-0.0841)Cit+(-0.3055)Met+(-0.0086)Lys+(0.1064)Phe;0.738,0.782,0.733,0.746,0.721,0.769,0.700,0.734,(-0.8264)+(0.0451)Ser+(-0.1811)Asn+(-0.0075)Thr+(0.0159)Orn+(-0.0204)Leu+(0.0710)Phe;0.738,0.776,0.778,0.790,0.782,0.769,0.748,0.772,(-0.7894)+(0.0006)Gly+(0.0044)Gln+(-0.3117)Met+(0.0137)Orn+(-0.0112)Lys+(0.0889)Phe;0.738,0.788,0.769,0.782,0.763,0.837,0.700,0.770,(1.6528)+(0.0439)Ser+(-0.0081)Gly+(-0.0172)Arg+(-0.0078)Val+(-0.2150)Met+(0.0302)Orn;0.738,0.786,0.760,0.782,0.744,0.858,0.664,0.762,(0.7677)+(0.0317)Ser+(-0.0031)Ala+(0.0049)Tyr+(-0.0055)Val+(-0.2290)Met+(0.0236)Orn;0.738,0.781,0.765,0.772,0.773,0

.824,0.688,0.764,(1.9989)+(0.0445)Ser+(-0.0058)Gly+(-0.0592)Cit+(-0.0009)Val+(-0.2130)Met+(-0.0022)Lys;0.738,0.780,0.764,0.782,0.779,0.833,0.635,0.757,(0.9966)+(0.0340)Ser+(0.0032)Gln+(-0.0703)Cit+(-0.0033)Arg+(-0.2251)Met+(-0.0028)Lys;0.738,0.776,0.749,0.751,0.795,0.808,0.608,0.740,(4.1950)+(-0.0674)Asn+(0.0026)Gly+(0.0177)Thr+(-0.1027)Cit+(-0.2002)Met+(0.0421)Orn;0.738,0.775,0.743,0.716,0.775,0.787,0.717,0.749,(2.6643)+(-0.0920)Cit+(0.0013)Arg+(0.0014)Pro+(-0.2613)Met+(0.0307)Orn+(0.0447)Ile;0.738,0.774,0.752,0.767,0.770,0.732,0.690,0.740,(1.1130)+(-0.0526)Asn+(0.0272)Thr+(-0.3110)Met+(-0.0075)Lys+(-0.0081)Leu+(0.1035)Phe;0.738,0.780,0.701,0.698,0.626,0.802,0.792,0.729,(-0.0064)+(0.0390)Ser+(-0.0075)Gly+(-0.0023)Gln+(-0.0102)Ala+(-0.0517)Tyr+(0.0564)Ile;0.738,0.773,0.721,0.705,0.708,0.816,0.725,0.738,(1.4293)+(0.0004)Gln+(-0.1112)Cit+(-0.0085)Pro+(0.0345)Orn+(0.1630)Ile+(-0.0925)Leu;0.738,0.781,0.769,0.791,0.775,0.808,0.672,0.761,(3.6113)+(-0.1315)Asn+(0.0056)Gln+(0.0089)Thr+(-0.1084)Cit+(-0.0507)Tyr+(0.0466)Orn;0.738,0.775,0.788,0.794,0.786,0.789,0.775,0.786,(1.6619)+(-0.0351)Asn+(-0.0057)Ala+(-0.0103)Arg+(-0.2155)Met+(0.0217)Orn+(0.0823)Phe;0.738,0.784,0.734,0.725,0.709,0.805,0.758,0.749,(1.5160)+(-0.0765)Cit+(-0.0129)Arg+(-0.0113)Lys+(0.1597)Ile+(-0.0938)Leu+(0.0582)Phe;0.738,0.780,0.756,0.742,0.794,0.768,0.705,0.752,(1.8242)+(-0.0388)Asn+(-0.0878)Cit+(0.0043)Pro+(-0.2550)Met+(0.0356)Orn+(0.0751)Phe;0.738,0.775,0.753,0.761,0.736,0.836,0.706,0.760,(4.2773)+(-0.0107)Ala+(-0.1118)Cit+(0.0131)Pro+(-0.0382)Tyr+(-0.0080)Val+(0.0582)Orn;0.738,0.788,0.712,0.714,0.772,0.743,0.561,0.697,(-0.3135)+(0.0047)Gly+(0.0248)Thr+(-0.1060)Cit+(-0.3916)Met+(0.0260)Orn+(0.1023)Phe;0.738,0.788,0.757,0.773,0.710,0.834,0.757,0.769,(2.4049)+(0.0386)Ser+(-0.1829)Asn+(0.0031)Gln+(-0.0146)Tyr+(-0.0427)Val+(0.0659)Leu;0.738,0.779,0.741,0.723,0.765,0.794,0.701,0.746,(2.9222)+(0.0052)Gly+(-0.0750)Cit+(0.0020)Pro+(-0.2396)Met+

(-0.0091)Lys+(0.0622)Ile;0.738,0.779,0.777,0.778,0.736,0.823,0.825,0.791,(1.0087)+(0.0036)Gln+(-0.0079)Ala+(-0.0069)Tyr+(-0.2471)Met+(0.0044)Orn+(0.0636)Ile;0.738,0.774,0.806,0.829,0.806,0.837,0.725,0.799,(3.4635)+(-0.0837)Asn+(0.0069)Gln+(0.0226)Thr+(-0.0046)Ala+(-0.0801)Cit+(-0.1775)Met;0.738,0.788,0.724,0.713,0.748,0.775,0.668,0.726,(2.8140)+(0.0261)Thr+(-0.0802)Cit+(0.0026)Pro+(-0.0223)Tyr+(-0.3114)Met+(0.0568)Ile;0.738,0.781,0.767,0.772,0.776,0.823,0.693,0.766,(1.8196)+(0.0443)Ser+(-0.0056)Gly+(-0.0595)Cit+(0.0049)Tyr+(-0.0016)Val+(-0.2298)Met;0.738,0.776,0.775,0.788,0.773,0.781,0.740,0.770,(0.6582)+(0.0023)Gly+(-0.0057)Ala+(-0.0134)Arg+(-0.2552)Met+(0.0197)Orn+(0.0885)Phe;0.738,0.775,0.739,0.719,0.745,0.836,0.709,0.752,(1.4835)+(0.0269)Ser+(-0.0029)Gly+(-0.0016)Gln+(-0.0114)Ala+(-0.1192)Cit+(0.0489)Orn;0.738,0.784,0.756,0.749,0.721,0.814,0.804,0.772,(3.3660)+(-0.0884)Asn+(-0.0047)Pro+(0.0168)Orn+(-0.0064)Lys+(0.1463)Ile+(-0.0812)Leu;0.738,0.782,0.767,0.776,0.750,0.820,0.738,0.771,(0.5733)+(0.0478)Ser+(-0.0065)Gly+(-0.0032)Ala+(-0.0102)Arg+(-0.2346)Met+(0.0113)Leu;0.738,0.780,0.761,0.776,0.778,0.827,0.639,0.755,(0.7001)+(0.0349)Ser+(0.0030)Gln+(-0.0701)Cit+(-0.0047)Arg+(0.0080)Tyr+(-0.2506)Met;0.738,0.777,0.757,0.789,0.740,0.724,0.734,0.747,(1.3132)+(0.0118)Pro+(-0.0263)Tyr+(-0.0164)Val+(-0.2836)Met+(0.0018)Lys+(0.1173)Phe;0.738,0.773,0.810,0.821,0.795,0.838,0.792,0.811,(3.2766)+(-0.0572)Asn+(0.0073)Gln+(-0.0081)Ala+(-0.0802)Cit+(0.0136)Pro+(-0.1457)Met;0.738,0.780,0.757,0.781,0.751,0.842,0.642,0.754,(3.0435)+(0.0354)Ser+(-0.1430)Asn+(0.0015)Thr+(-0.0180)Arg+(-0.0146)Val+(0.0336)Orn;0.738,0.780,0.745,0.773,0.692,0.824,0.726,0.754,(1.8089)+(0.0362)Ser+(-0.1352)Asn+(0.0018)Gln+(-0.0078)Ala+(0.0129)Pro+(-0.0304)Tyr;0.738,0.779,0.775,0.783,0.779,0.835,0.702,0.775,(4.9204)+(0.0217)Thr+(-0.0082)Ala+(-0.0751)Cit+(0.0157)Pro+(-0.0047)Val+(-0.2232)Met;0.738,0.777,0.734,0.730,0.689,0.774,0.814,0.752,(0.7

161)+(-0.0093)Thr+(-0.0064)Pro+(-0.0124)Lys+(0.1617)Ile+(-0.0933)Leu+(0.0448)Phe;0.738,0.776,0.758,0.776,0.755,0.721,0.742,0.748,(1.7973)+(-0.0328)Asn+(0.0082)Pro+(-0.0342)Tyr+(-0.2342)Met+(-0.0057)Lys+(0.0955)Phe;0.738,0.779,0.770,0.748,0.783,0.843,0.750,0.781,(2.6939)+(-0.0111)Ala+(-0.1299)Cit+(0.0051)Arg+(0.0615)Orn+(-0.0207)Lys+(0.0544)Phe;0.738,0.774,0.741,0.768,0.762,0.728,0.639,0.724,(-1.5166)+(0.0005)Gly+(0.0048)Gln+(0.0271)Thr+(-0.0260)Arg+(-0.4051)Met+(0.0998)Phe;0.738,0.774,0.812,0.836,0.794,0.780,0.808,0.804,(-0.1672)+(-0.0643)Asn+(0.0062)Gln+(-0.0043)Ala+(-0.2367)Met+(-0.0075)Leu+(0.0949)Phe;0.738,0.785,0.748,0.744,0.764,0.801,0.684,0.748,(0.9344)+(0.0471)Ser+(-0.0051)Gly+(-0.0642)Cit+(0.0019)Tyr+(-0.2638)Met+(0.0115)Leu;0.738,0.780,0.795,0.792,0.820,0.842,0.716,0.792,(3.1112)+(-0.0728)Asn+(0.0067)Gln+(-0.1051)Cit+(-0.1373)Met+(0.0488)Orn+(-0.0095)Lys;0.738,0.779,0.720,0.686,0.765,0.818,0.647,0.729,(3.4195)+(-0.0881)Asn+(0.0053)Gly+(-0.1151)Cit+(0.0470)Orn+(-0.0197)Lys+(0.0358)Ile;0.738,0.784,0.761,0.764,0.741,0.821,0.751,0.770,(0.4275)+(0.0482)Ser+(-0.0066)Gly+(-0.0033)Ala+(-0.2307)Met+(-0.0066)Lys+(0.0150)Leu;0.738,0.780,0.773,0.793,0.778,0.813,0.681,0.766,(3.3314)+(-0.1220)Asn+(0.0015)Gly+(0.0059)Gln+(-0.1097)Cit+(-0.0453)Tyr+(0.0492)Orn;0.738,0.783,0.755,0.779,0.748,0.852,0.635,0.753,(0.7932)+(0.0331)Ser+(0.0097)Thr+(-0.0031)Ala+(0.0064)Tyr+(-0.2511)Met+(-0.0038)Lys;0.738,0.781,0.752,0.743,0.762,0.732,0.773,0.753,(0.4277)+(-0.0210)Asn+(0.0030)Pro+(-0.3290)Met+(0.0020)Orn+(0.0361)Ile+(0.0674)Phe;0.738,0.778,0.769,0.774,0.753,0.820,0.751,0.775,(2.5986)+(-0.1029)Asn+(0.0066)Gly+(-0.0117)Ala+(-0.0890)Cit+(0.0111)Pro+(0.0652)Phe;0.738,0.775,0.802,0.798,0.758,0.848,0.876,0.820,(1.4273)+(-0.0966)Asn+(0.0044)Gln+(-0.0104)Ala+(-0.0156)Lys+(0.0450)Ile+(0.0342)Phe;0.738,0.771,0.776,0.787,0.784,0.757,0.743,0.768,(1.5602)+(-0.0433)Asn+(-0.2340)Met+(0.0225)Orn+(-0.0057)Lys+(-0.0113)Leu+(0.0900)Ph

e;0.738,0.783,0.773,0.793,0.752,0.847,0.711,0.776,(1.2317)+(0.0362)Se
r+(-0.1387)Asn+(0.0022)Gln+(-0.0061)Ala+(-0.0170)Arg+(0.0219)Orn;0.73
8,0.776,0.803,0.825,0.792,0.778,0.788,0.796,(2.5013)+(-0.0490)Asn+(-0
.0025)Ala+(-0.0039)Arg+(-0.0134)Val+(-0.1981)Met+(0.1114)Phe;0.738,0.
773,0.743,0.712,0.727,0.826,0.800,0.766,(1.4603)+(-0.0169)Ala+(-0.126
1)Cit+(0.0059)Pro+(0.0378)Orn+(0.0434)Ile+(0.0123)Phe;0.738,0.788,0.7
15,0.718,0.721,0.782,0.650,0.718,(-0.6956)+(0.0478)Ser+(-0.1522)Asn+(
-0.0168)Arg+(0.0163)Orn+(-0.0151)Lys+(0.0613)Phe;0.738,0.774,0.801,0.
824,0.786,0.769,0.793,0.793,(2.2616)+(-0.0573)Asn+(-0.0025)Ala+(-0.01
47)Val+(-0.2060)Met+(0.0038)Lys+(0.1116)Phe;0.738,0.771,0.750,0.721,0
.737,0.828,0.800,0.771,(1.5183)+(-0.0031)Thr+(-0.0154)Ala+(-0.1246)Ci
t+(0.0406)Orn+(0.0463)Ile+(0.0161)Phe;0.738,0.785,0.762,0.779,0.751,0
.818,0.700,0.762,(0.3465)+(0.0427)Ser+(-0.0082)Gly+(0.0014)Gln+(0.010
0)Thr+(-0.0054)Tyr+(-0.2811)Met;0.738,0.781,0.757,0.786,0.747,0.857,0
.628,0.754,(1.1691)+(0.0313)Ser+(0.0106)Thr+(-0.0026)Ala+(-0.0026)Val
+(-0.2400)Met+(-0.0026)Lys;0.
738,0.780,0.780,0.805,0.783,0.753,0.728,0.767,(-0.9535)+(0.0056)Gln+(
-0.0168)Arg+(0.0082)Pro+(-0.3317)Met+(-0.0132)Leu+(0.0998)Phe;0.738,0
.778,0.782,0.794,0.752,0.814,0.794,0.788,(2.6085)+(0.0041)Gln+(0.0102
)Pro+(-0.0386)Val+(-0.2844)Met+(-0.0002)Lys+(0.0597)Leu;0.738,0.776,0
.770,0.776,0.783,0.740,0.751,0.762,(1.4769)+(-0.0249)Asn+(-0.0052)Arg
+(0.0071)Pro+(-0.2792)Met+(-0.0057)Lys+(0.0872)Phe;0.738,0.783,0.790,
0.809,0.757,0.854,0.762,0.795,(0.6683)+(0.0423)Ser+(-0.0075)Gly+(0.00
20)Gln+(-0.0020)Ala+(-0.0031)Val+(-0.2258)Met;0.738,0.782,0.719,0.712
,0.653,0.822,0.798,0.746,(-2.5862)+(0.0375)Ser+(-0.0143)Thr+(-0.0127)
Ala+(-0.0244)Arg+(0.0514)Ile+(0.0267)Phe;0.738,0.786,0.732,0.717,0.70
4,0.807,0.773,0.750,(1.3990)+(-0.0029)Thr+(-0.0866)Cit+(-0.0141)Lys+(
0.1586)Ile+(-0.0914)Leu+(0.0570)Phe;0.738,0.782,0.723,0.731,0.719,0.7

73,0.675,0.725,(-0.5385)+(0.0449)Ser+(-0.1690)Asn+(0.0170)Orn+(-0.0131)Lys+(-0.0147)Leu+(0.0723)Phe;0.738,0.780,0.753,0.753,0.726,0.803,0.771,0.763,(2.6481)+(-0.0312)Asn+(0.0207)Thr+(-0.0075)Ala+(-0.0152)Tyr+(-0.2447)Met+(0.0637)Ile;0.738,0.780,0.752,0.771,0.779,0.737,0.654,0.735,(-1.2499)+(0.0052)Gln+(0.0265)Thr+(-0.0872)Cit+(-0.4004)Met+(-0.0056)Leu+(0.1096)Phe;0.738,0.779,0.757,0.780,0.752,0.842,0.645,0.755,(2.9938)+(0.0361)Ser+(-0.1388)Asn+(-0.0169)Arg+(-0.0140)Val+(0.0344)Orn+(-0.0015)Lys;0.738,0.778,0.746,0.745,0.718,0.804,0.765,0.758,(1.9195)+(0.0007)Gly+(0.0184)Thr+(-0.0078)Ala+(-0.0114)Tyr+(-0.2793)Met+(0.0669)Ile;0.738,0.778,0.771,0.771,0.792,0.838,0.675,0.769,(5.8572)+(-0.1134)Asn+(0.0106)Thr+(-0.1011)Cit+(-0.0136)Val+(0.0612)Orn+(-0.0074)Lys;0.738,0.776,0.792,0.793,0.789,0.833,0.765,0.795,(3.8857)+(-0.1037)Asn+(0.0204)Thr+(-0.0091)Ala+(-0.0829)Cit+(-0.0116)Lys+(0.0711)Phe;0.738,0.773,0.788,0.804,0.782,0.780,0.766,0.783,(1.3428)+(-0.0392)Asn+(0.0032)Gly+(-0.0049)Ala+(-0.2229)Met+(-0.0038)Lys+(0.0951)Phe;0.738,0.784,0.763,0.779,0.752,0.829,0.698,0.764,(0.5068)+(0.0428)Ser+(-0.0082)Gly+(0.0017)Gln+(0.0109)Thr+(-0.2713)Met+(-0.0055)Lys;0.738,0.780,0.739,0.762,0.690,0.825,0.722,0.750,(2.2003)+(0.0379)Ser+(-0.1268)Asn+(-0.0004)Thr+(-0.0079)Ala+(0.0134)Pro+(-0.0293)Tyr;0.738,0.777,0.799,0.825,0.776,0.784,0.789,0.793,(-0.3780)+(0.0051)Gln+(-0.0043)Ala+(-0.0211)Tyr+(-0.2523)Met+(-0.0076)Lys+(0.1008)Phe;0.738,0.778,0.771,0.752,0.784,0.841,0.745,0.781,(2.7364)+(-0.0108)Ala+(-0.1249)Cit+(0.0612)Orn+(-0.0189)Lys+(-0.0025)Leu+(0.0564)Phe;0.738,0.782,0.744,0.752,0.765,0.805,0.636,0.740,(0.2386)+(0.0373)Ser+(0.0026)Gln+(-0.0731)Cit+(-0.0032)Arg+(-0.2678)Met+(0.0115)Leu;0.738,0.777,0.734,0.747,0.751,0.785,0.627,0.727,(4.5753)+(-0.0978)Asn+(0.0030)Gly+(-0.1050)Cit+(0.0042)Pro+(-0.0467)Tyr+(0.0521)Orn;0.738,0.778,0.732,0.722,0.709,0.828,0.736,0.749,(1.7456)+(0.0022)Gly+(0.0025)Gln+(-0.0904)Cit+(-0.0148)Lys

+(0.1558)Ile+(-0.0808)Leu;0.738,0.777,0.755,0.770,0.765,0.733,0.709,0.744,(0.3594)+(0.0027)Gly+(0.0085)Pro+(-0.3161)Met+(-0.0052)Lys+(-0.0100)Leu+(0.1006)Phe;0.738,0.775,0.740,0.733,0.744,0.844,0.674,0.749,(2.0132)+(0.0221)Ser+(-0.0018)Gln+(-0.0099)Ala+(-0.1178)Cit+(-0.0064)Val+(0.0545)Orn;0.738,0.774,0.787,0.814,0.775,0.772,0.755,0.779,(0.7970)+(0.0026)Gly+(-0.0030)Ala+(-0.0125)Val+(-0.2655)Met+(0.0006)Lys+(0.1148)Phe;0.738,0.773,0.730,0.742,0.704,0.825,0.684,0.739,(1.9072)+(0.0269)Ser+(-0.0003)Gln+(-0.0111)Ala+(-0.0860)Cit+(0.0153)Pro+(-0.0356)Tyr;0.738,0.779,0.776,0.760,0.784,0.845,0.753,0.786,(1.8511)+(0.0027)Gln+(-0.0113)Ala+(-0.1295)Cit+(0.0594)Orn+(-0.0211)Lys+(0.0540)Phe;0.738,0.781,0.760,0.752,0.771,0.748,0.764,0.759,(0.7446)+(-0.0164)Asn+(-0.0096)Arg+(-0.3096)Met+(0.0059)Orn+(0.0383)Ile+(0.0659)Phe;0.738,0.778,0.750,0.764,0.771,0.827,0.615,0.744,(1.8201)+(0.0369)Ser+(-0.0653)Cit+(-0.0015)Arg+(-0.0005)Val+(-0.2138)Met+(-0.0016)Lys;0.738,0.777,0.781,0.801,0.785,0.815,0.695,0.774,(3.4098)+(-0.1160)Asn+(0.0064)Gln+(-0.1050)Cit+(-0.0047)Arg+(-0.0461)Tyr+(0.0492)Orn;0.738,0.783,0.714,0.732,0.723,0.793,0.590,0.710,(-0.0781)+(0.0391)Ser+(0.0006)Gln+(-0.0177)Arg+(0.0099)Pro+(-0.2865)Met+(0.0139)Orn;0.738,0.782,0.764,0.769,0.775,0.821,0.688,0.763,(1.7396)+(0.0452)Ser+(-0.0056)Gly+(-0.0584)Cit+(-0.0035)Arg+(0.0037)Tyr+(-0.2296)Met;0.738,0.775,0.799,0.824,0.786,0.785,0.771,0.791,(-0.8994)+(0.0015)Gly+(0.0053)Gln+(-0.0050)Ala+(-0.0151)Arg+(-0.2850)Met+(0.0952)Phe;0.738,0.792,0.706,0.710,0.671,0.791,0.704,0.719,(0.2936)+(0.0417)Ser+(-0.1275)Asn+(0.0018)Gln+(-0.0400)Tyr+(-0.0145)Lys+(0.0505)Ile;0.738,0.783,0.735,0.789,0.687,0.804,0.643,0.730,(-1.0778)+(0.0309)Ser+(-0.0065)Ala+(-0.0272)Arg+(-0.0565)Tyr+(-0.0115)Leu+(0.0904)Phe;0.738,0.782,0.757,0.782,0.753,0.826,0.653,0.753,(3.5477)+(0.0380)Ser+(-0.1210)Asn+(-0.0598)Cit+(-0.0163)Tyr+(-0.0052)Val+(-0.0019)Lys;0.738,0.775,0.784,0.815,0.768,0.769,0.748,0.775

,(1.0547)+(0.0022)Gly+(-0.0027)Ala+(-0.0159)Tyr+(-0.0120)Val+(-0.2427)Met+(0.1182)Phe;0.738,0.779,0.785,0.783,0.777,0.809,0.790,0.790,(1.2496)+(-0.0308)Asn+(0.0063)Gln+(-0.0098)Arg+(-0.2484)Met+(-0.0095)Lys+(0.0549)Ile;0.738,0.775,0.753,0.770,0.770,0.803,0.634,0.745,(5.1056)+(-0.0933)Asn+(0.0023)Gly+(-0.1050)Cit+(-0.0380)Tyr+(0.0578)Orn+(-0.0080)Leu;0.738,0.774,0.751,0.763,0.763,0.800,0.657,0.746,(5.3703)+(-0.0882)Asn+(-0.0998)Cit+(0.0057)Pro+(-0.0455)Tyr+(0.0565)Orn+(-0.0113)Leu;0.738,0.779,0.718,0.701,0.662,0.815,0.809,0.747,(-1.1917)+(0.0371)Ser+(-0.0055)Gly+(-0.0141)Ala+(-0.0282)Arg+(0.0065)Pro+(0.0451)Ile;0.738,0.777,0.752,0.746,0.750,0.790,0.744,0.758,(1.2568)+(-0.0409)Asn+(0.0048)Gln+(0.0188)Thr+(-0.2951)Met+(-0.0131)Lys+(0.0561)Ile;0.738,0.774,0.786,0.775,0.796,0.844,0.753,0.792,(5.1014)+(-0.0832)Asn+(-0.0087)Ala+(-0.1153)Cit+(0.0021)Arg+(0.0589)Orn+(-0.0030)Leu;0.738,0.774,0.794,0.822,0.780,0.757,0.773,0.783,(-0.0561)+(-0.0618)Asn+(0.0068)Gln+(-0.0310)Tyr+(-0.2247)Met+(-0.0069)Lys+(0.0973)Phe;0.738,0.780,0.772,0.761,0.777,0.809,0.763,0.778,(7.2849)+(-0.1090)His+(-0.0226)Cit+(-0.0016)Arg+(0.0019)Tyr+(-0.0827)Met+(0.0096)Lys;0.738,0.776,0.711,0.705,0.681,0.788,0.733,0.727,(-0.0749)+(0.0047)Gly+(-0.0129)Thr+(-0.0911)Cit+(0.1682)Ile+(-0.1025)Leu+(0.0548)Phe;0.738,0.774,0.732,0.716,0.741,0.838,0.681,0.744,(1.4761)+(0.0236)Ser+(-0.0019)Gln+(-0.0115)Ala+(-0.1233)Cit+(0.0503)Orn+(0.0002)Leu;0.738,0.769,0.747,0.747,0.705,0.816,0.784,0.763,(1.2885)+(0.0030)Gln+(-0.0099)Thr+(-0.0844)Cit+(-0.0062)Pro+(0.1727)Ile+(-0.0932)Leu;0.738,0.784,0.756,0.778,0.743,0.854,0.655,0.758,(1.0023)+(0.0317)Ser+(-0.0031)Ala+(-0.0045)Val+(-0.2080)Met+(0.0258)Orn+(-0.0042)Lys;0.738,0.783,0.757,0.771,0.751,0.822,0.684,0.757,(1.0721)+(0.0439)Ser+(-0.0081)Gly+(0.0119)Thr+(-0.0042)Tyr+(-0.2600)Met+(-0.0048)Lys;0.738,0.778,0.748,0.755,0.721,0.807,0.742,0.756,(3.5234)+(-0.0799)Asn+(0.0026)Gly+(0.0042)Thr+(-0.0244)Arg+(0.1526)Ile

+(-0.0870)Leu;0.738,0.781,0.753,0.748,0.713,0.836,0.790,0.771,(1.5829)+(0.0453)Ser+(-0.1456)Asn+(-0.0058)Gly+(-0.0095)Ala+(0.0101)Pro+(0.0150)Orn;0.738,0.779,0.814,0.864,0.777,0.784,0.782,0.802,(1.7980)+(-0.1294)Asn+(0.0071)Gln+(-0.0132)Arg+(-0.0523)Tyr+(-0.0166)Val+(0.0998)Phe;0.738,0.778,0.801,0.818,0.792,0.795,0.778,0.796,(-0.5453)+(0.0068)Gln+(-0.0058)Ala+(-0.0814)Cit+(-0.2681)Met+(-0.0013)Leu+(0.1001)Phe;0.738,0.777,0.815,0.861,0.766,0.792,0.809,0.807,(1.8714)+(-0.1318)Asn+(0.0061)Gln+(-0.0036)Ala+(-0.0485)Tyr+(-0.0149)Val+(0.1005)Phe;0.738,0.770,0.752,0.724,0.742,0.830,0.794,0.772,(2.1174)+(-0.0021)Thr+(-0.0149)Ala+(-0.1220)Cit+(-0.0029)Arg+(0.0417)Orn+(0.0488)Ile;0.738,0.782,0.770,0.768,0.743,0.844,0.775,0.783,(2.1539)+(0.0467)Ser+(-0.1233)Asn+(-0.0067)Gly+(-0.0057)Ala+(0.0261)Orn+(-0.0107)Lys;0.738,0.779,0.783,0.785,0.781,0.791,0.776,0.783,(2.0932)+(-0.0087)Ala+(-0.0669)Cit+(0.0137)Pro+(-0.2400)Met+(-0.0052)Leu+(0.0954)Phe;0.738,0.772,0.762,0.767,0.711,0.834,0.803,0.779,(1.9123)+(0.0028)Gln+(0.0050)Thr+(-0.0125)Ala+(-0.0949)Cit+(-0.0412)Tyr+(0.0624)Ile;0.738,0.787,0.736,0.735,0.766,0.811,0.623,0.734,(0.9348)+(0.0418)Ser+(-0.0716)Cit+(0.0074)Tyr+(-0.2529)Met+(-0.0069)Lys+(0.0155)Leu;0.738,0.782,0.766,0.774,0.774,0.823,0.688,0.765,(2.0143)+(0.0446)Ser+(-0.0059)Gly+(-0.0560)Cit+(-0.0038)Arg+(-0.0015)Val+(-0.2152)Met;0.738,0.781,0.752,0.761,0.776,0.829,0.622,0.747,(1.5798)+(0.0380)Ser+(-0.0670)Cit+(-0.0012)Arg+(0.0094)Tyr+(-0.2321)Met+(-0.0022)Lys;0.738,0.776,0.760,0.734,0.776,0.796,0.773,0.770,(3.6276)+(-0.0107)Asn+(-0.0737)Cit+(0.0111)Arg+(-0.2196)Met+(-0.0110)Lys+(0.0611)Ile;0.738,0.780,0.701,0.708,0.710,0.779,0.608,0.701,(-0.3081)+(0.0394)Ser+(0.0075)Thr+(0.0090)Pro+(-0.3134)Met+(-0.0076)Lys+(0.0094)Leu;0.738,0.780,0.758,0.774,0.750,0.802,0.697,0.756,(3.1694)+(0.0458)Ser+(-0.1168)Asn+(-0.0053)Gly+(-0.0556)Cit+(-0.0035)Arg+(-0.0293)Tyr;0.737,0.782,0.706,0.736,0.722,0.692,0.601,0.688,(0.3430)+

(0.0322)Thr+(-0.0222)Arg+(0.0080)Pro+(-0.0443)Tyr+(-0.3591)Met+(0.1112)Phe;0.737,0.779,0.768,0.764,0.762,0.804,0.767,0.774,(1.0914)+(0.0051)Gln+(-0.0116)Arg+(-0.2687)Met+(0.0099)Orn+(-0.0117)Lys+(0.0555)Ile;0.737,0.775,0.730,0.739,0.693,0.786,0.742,0.740,(0.6278)+(0.0016)Gly+(-0.0360)Arg+(-0.0064)Pro+(0.1732)Ile+(-0.1062)Leu+(0.0507)Phe;0.737,0.775,0.750,0.751,0.769,0.807,0.664,0.748,(5.3828)+(-0.0732)Asn+(-0.1026)Cit+(0.0041)Pro+(-0.0426)Tyr+(0.0588)Orn+(-0.0105)Lys;0.737,0.780,0.793,0.829,0.774,0.760,0.763,0.781,(-0.4402)+(0.0050)Gln+(-0.0216)Tyr+(-0.0131)Val+(-0.2794)Met+(-0.0017)Lys+(0.1181)Phe;0.737,0.779,0.778,0.799,0.781,0.793,0.708,0.770,(1.2179)+(0.0054)Gly+(-0.0041)Ala+(-0.0688)Cit+(-0.0089)Val+(-0.2407)Met+(0.1193)Phe;0.737,0.777,0.778,0.791,0.782,0.756,0.755,0.771,(2.7976)+(-0.0467)Asn+(-0.0483)Cit+(0.0103)Pro+(-0.0157)Val+(-0.2373)Met+(0.1115)Phe;0.737,0.778,0.785,0.778,0.769,0.830,0.808,0.796,(5.1303)+(-0.0072)Ala+(-0.0523)Cit+(0.0152)Pro+(-0.0301)Val+(-0.1977)Met+(0.0533)Leu;0.737,0.778,0.738,0.756,0.757,0.790,0.610,0.728,(4.8398)+(-0.1101)Asn+(0.0020)Gly+(0.0103)Thr+(-0.1065)Cit+(-0.0476)Tyr+(0.0511)Orn;0.737,0.775,0.762,0.742,0.762,0.853,0.754,0.778,(4.3359)+(-0.0089)Ala+(-0.1144)Cit+(-0.0265)Val+(0.0678)Orn+(-0.0162)Lys+(0.0453)Leu;0.737,0.780,0.735,0.765,0.736,0.728,0.660,0.722,(-0.8123)+(0.0038)Gln+(0.0275)Thr+(-0.0358)Tyr+(-0.3434)Met+(-0.0133)Lys+(0.1142)Phe;0.737,0.778,0.772,0.768,0.761,0.835,0.760,0.781,(3.7456)+(-0.0094)Arg+(0.0046)Tyr+(-0.0413)Val+(-0.2352)Met+(0.0376)Orn+(0.0633)Leu;0.737,0.776,0.734,0.729,0.724,0.825,0.703,0.745,(-0.6084)+(0.0223)Ser+(-0.0114)Ala+(-0.1188)Cit+(-0.0111)Val+(0.0481)Orn+(0.0587)Phe;0.737,0.781,0.739

,0.742,0.728,0.764,0.737,0.743,(-0.2992)+(0.0491)Ser+(-0.1879)Asn+(-0.0053)Gly+(0.0136)Orn+(-0.0216)Leu+(0.0676)Phe;0.737,0.778,0.748,0.761,0.768,0.745,0.671,0.736,(-1.5716)+(0.0048)Gly+(0.0056)Gln+(-0.0865)

Cit+(0.0070)Pro+(-0.3588)Met+(0.1018)Phe;0.737,0.777,0.783,0.792,0.75
3,0.815,0.796,0.789,(2.5656)+(0.0041)Gln+(0.0101)Pro+(0.0029)Tyr+(-0.
0390)Val+(-0.2895)Met+(0.0603)Leu;0.737,0.776,0.774,0.786,0.783,0.797
,0.703,0.767,(1.2614)+(0.0058)Gly+(-0.0056)Ala+(-0.0775)Cit+(-0.2302)
Met+(-0.0040)Lys+(0.1071)Phe;0.737,0.785,0.711,0.726,0.723,0.788,0.59
3,0.707,(-0.0711)+(0.0402)Ser+(-0.0170)Arg+(0.0097)Pro+(-0.2897)Met+(
0.0135)Orn+(0.0022)Leu;0.737,0.777,0.726,0.752,0.693,0.789,0.683,0.72
9,(-0.7489)+(0.0305)Ser+(-0.0032)Thr+(-0.0085)Ala+(-0.0865)Cit+(-0.05
34)Tyr+(0.0819)Phe;0.737,0.776,0.732,0.725,0.708,0.829,0.730,0.748,(2
.6607)+(0.0032)Gly+(-0.0866)Cit+(-0.0058)Pro+(-0.0121)Lys+(0.1659)Ile
+(-0.0822)Leu;0.737,0.776,0.797,0.812,0.803,0.771,0.766,0.788,(-0.514
4)+(-0.0651)Asn+(0.0088)Gln+(-0.0789)Cit+(-0.0017)Arg+(-0.2642)Met+(0
.0929)Phe;0.737,0.774,0.754,0.776,0.770,0.721,0.688,0.739,(0.8420)+(-
0.0624)Asn+(0.0234)Thr+(-0.3090)Met+(0.0086)Orn+(-0.0132)Leu+(0.1000)
Phe;0.737,0.773,0.789,0.821,0.773,0.748,0.769,0.778,(2.4562)+(-0.0630
)Asn+(-0.0251)Tyr+(-0.0157)Val+(-0.1844)Met+(0.0045)Lys+(0.1181)Phe;0
.737,0.779,0.718,0.736,0.749,0.712,0.607,0.701,(-0.2780)+(0.0021)Gly+
(0.0266)Thr+(-0.0216)Arg+(0.0063)Pro+(-0.4030)Met+(0.0990)Phe;0.737,0
.783,0.748,0.767,0.735,0.795,0.689,0.746,(2.3909)+(0.0480)Ser+(-0.122
0)Asn+(-0.0077)Gly+(-0.0160)Arg+(-0.0432)Tyr+(0.0270)Orn;0.737,0.780,
0.739,0.716,0.760,0.794,0.714,0.746,(2.7962)+(0.0052)Gly+(-0.0839)Cit
+(0.0104)Arg+(-0.2407)Met+(-0.0118)Lys+(0.0667)Ile;0.737,0.779,0.735,
0.755,0.763,0.722,0.629,0.717,(0.2805)+(0.0273)Thr+(-0.0214)Arg+(0.00
76)Pro+(-0.3803)Met+(-0.0132)Leu+(0.1084)Phe;0.737,0.778,0.753,0.744,
0.766,0.799,0.718,0.756,(1.3670)+(0.0048)Gln+(-0.0970)Cit+(-0.0196)Ty
r+(-0.2549)Met+(0.0275)Orn+(0.0491)Ile;0.737,0.774,0.734,0.748,0.712,
0.831,0.676,0.742,(1.9806)+(0.0284)Ser+(-0.0107)Ala+(-0.0773)Cit+(-0.
0101)Arg+(0.0154)Pro+(-0.0343)Tyr;0.737,0.776,0.792,0.814,0.776,0.819

,0.745,0.789,(3.0906)+(-0.1129)Asn+(0.0058)Gly+(-0.0059)Ala+(-0.0715)Cit+(-0.0120)Val+(0.0936)Phe;0.737,0.780,0.709,0.742,0.704,0.681,0.651,0.694,(-1.4262)+(0.0029)Gln+(0.0230)Thr+(0.0075)Pro+(-0.0409)Tyr+(-0.3887)Met+(0.1073)Phe;0.737,0.778,0.755,0.753,0.738,0.780,0.780,0.763,(3.6276)+(-0.1951)Asn+(0.0169)Thr+(-0.0520)Val+(0.0312)Orn+(0.0567)Leu+(0.0635)Phe;0.737,0.778,0.744,0.743,0.745,0.789,0.710,0.747,(1.1111)+(0.0046)Gln+(0.0220)Thr+(-0.0180)Arg+(-0.3235)Met+(-0.0122)Lys+(0.0598)Ile;0.737,0.775,0.765,0.768,0.776,0.843,0.676,0.766,(4.7936)+(0.0087)Thr+(-0.0084)Ala+(-0.1218)Cit+(-0.0299)Tyr+(0.0643)Orn+(-0.0148)Lys;0.737,0.780,0.720,0.765,0.669,0.794,0.655,0.721,(-1.0906)+(0.0325)Ser+(-0.0010)Gln+(-0.0075)Ala+(-0.0259)Arg+(-0.0565)Tyr+(0.0791)Phe;0.737,0.780,0.745,0.759,0.755,0.759,0.676,0.737,(3.2342)+(-0.0987)Asn+(-0.1003)Cit+(0.0006)Arg+(-0.0661)Tyr+(0.0484)Orn+(0.0652)Phe;0.737,0.784,0.753,0.775,0.739,0.842,0.662,0.754,(0.2092)+(0.0337)Ser+(0.0001)Gln+(-0.0038)Ala+(0.0030)Tyr+(-0.2410)Met+(0.0191)Orn;0.737,0.781,0.763,0.785,0.769,0.727,0.721,0.750,(-1.0099)+(-0.0755)Asn+(0.0053)Gln+(0.0232)Thr+(-0.3510)Met+(-0.0022)Orn+(0.0914)Phe;0.737,0.780,0.772,0.764,0.758,0.835,0.779,0.784,(3.5926)+(0.0045)Tyr+(-0.0414)Val+(-0.2397)Met+(0.0363)Orn+(-0.0041)Lys+(0.0659)Leu;0.737,0.775,0.783,0.771,0.799,0.853,0.727,0.788,(4.7011)+(-0.0072)Ala+(-0.1162)Cit+(0.0054)Arg+(-0.1102)Met+(0.0618)Orn+(-0.0097)Lys;0.737,0.774,0.766,0.774,0.784,0.831,0.663,0.763,(5.3480)+(-0.1127)Asn+(0.0028)Gly+(-0.0992)Cit+(-0.0021)Arg+(-0.0144)Val+(0.0616)Orn;0.737,0.786,0.765,0.778,0.746,0.836,0.715,0.769,(1.1133)+(0.0427)Ser+(-0.0083)Gly+(-0.0057)Tyr+(-0.0069)Val+(-0.2315)Met+(0.0259)Orn;0.737,0.786,0.748,0.755,0.708,0.836,0.751,0.762,(2.4448)+(0.0371)Ser+(-0.2021)Asn+(0.0026)Gln+(0.0071)Thr+(-0.0470)Val+(0.0694)Leu;0.737,0.778,0.770,0.801,0.753,0.726,0.756,0.759,(-0.3677)+(-0.0624)Asn+(0.0060)Gln+(0.0071)Pro+(-0.0370)Tyr+(-0.25

97)Met+(0.0938)Phe;0.737,0.772,0.788,0.813,0.783,0.741,0.762,0.775,(-0.4983)+(-0.0621)Asn+(0.0060)Gln+(0.0073)Pro+(-0.2898)Met+(-0.0144)Leu+(0.0959)Phe;0.737,0.770,0.787,0.800,0.782,0.777,0.775,0.783,(1.6105)+(-0.0478)Asn+(-0.0050)Ala+(-0.2097)Met+(0.0220)Orn+(-0.0102)Leu+(0.0899)Phe;0.737,0.784,0.774,0.792,0.779,0.755,0.729,0.764,(-1.1128)+(0.0052)Gln+(-0.0178)Arg+(0.0062)Pro+(-0.3463)Met+(0.0082)Orn+(0.0854)Phe;0.737,0.779,0.772,0.788,0.773,0.808,0.698,0.767,(3.3811)+(-0.1194)Asn+(0.0060)Gln+(-0.1068)Cit+(0.0033)Pro+(-0.0508)Tyr+(0.0475)Orn;0.737,0.779,0.781,0.783,0.798,0.845,0.695,0.780,(3.0044)+(0.0031)Gln+(0.0134)Thr+(-0.0072)Ala+(-0.1118)Cit+(-0.2043)Met+(0.0460)Orn;0.737,0.788,0.740,0.763,0.742,0.799,0.632,0.734,(2.8153)+(0.0393)Ser+(-0.1238)Asn+(-0.0649)Cit+(-0.0021)Arg+(-0.0271)Tyr+(0.0028)Leu;0.737,0.786,0.744,0.757,0.708,0.826,0.726,0.754,(3.1311)+(0.0422)Ser+(-0.1589)Asn+(-0.0090)Arg+(-0.0110)Tyr+(-0.0417)Val+(0.0654)Leu;0.737,0.780,0.726,0.704,0.728,0.827,0.711,0.742,(3.0418)+(-0.1011)Cit+(-0.0101)Arg+(0.0417)Orn+(-0.0139)Lys+(0.1475)Ile+(-0.0823)Leu;0.737,0.779,0.772,0.770,0.798,0.841,0.674,0.771,(4.1994)+(0.0164)Thr+(-0.0071)Ala+(-0.1076)Cit+(-0.0047)Arg+(-0.1899)Met+(0.0493)Orn;0.737,0.782,0.788,0.782,0.793,0.806,0.781,0.790,(1.3141)+(-0.0492)Asn+(0.0077)Gln+(-0.0804)Cit+(-0.0007)Arg+(-0.2484)Met+(0.0522)Ile;0.737,0.779,0.711,0.763,0.679,0.778,0.595,0.704,(-0.8402)+(0.0335)Ser+(-0.0235)Arg+(-0.0588)Tyr+(-0.0124)Val+(-0.0102)Lys+(0.0961)Phe;0.737,0.778,0.728,0.706,0.765,0.793,0.665,0.732,(2.0698)+(0.0046)Gly+(-0.0997)Cit+(0.0014)Arg+(-0.2697)Met+(0.0293)Orn+(0.0506)Ile;0.737,0.781,0.781,0.792,0.754,0.845,0.766,0.789,(2.4116)+(0.0425)Ser+(-0.1692)Asn+(-0.0073)Gly+(0.0026)Gln+(-0.0152)Val+(0.0280)Orn;0.737,0.783,0.762,0.795,0.739,0.833,0.672,0.760,(2.5663)+(0.0321)Ser+(-0.1569)Asn+(0.0023)Gln+(-0.0248)Tyr+(-0.0125)Val+(0.0311)Orn;0.737,0.779,0.748,0.747,0.708,0.803,0.792,0.762,(3.1840)+

(-0.0918)Asn+(0.0019)Gly+(-0.0006)Thr+(-0.0044)Lys+(0.1432)Ile+(-0.0803)Leu;0.737,0.777,0.751,0.758,0.785,0.802,0.626,0.743,(4.9271)+(-0.0686)Asn+(0.0194)Thr+(-0.1003)Cit+(-0.0262)Tyr+(-0.1575)Met+(0.0458)Orn;0.737,0.776,0.783,0.784,0.749,0.820,0.828,0.795,(5.4569)+(-0.0544)Asn+(-0.0056)Ala+(0.0142)Pro+(-0.0380)Val+(-0.1688)Met+(0.0617)Leu;0.737,0.776,0.760,0.755,0.729,0.810,0.802,0.774,(1.9947)+(0.0020)Gly+(-0.0080)Ala+(-0.0057)Tyr+(-0.2311)Met+(0.0082)Orn+(0.0647)Ile;0.737,0.773,0.740,0.737,0.728,0.833,0.704,0.750,(-0.4227)+(0.0353)Ser+(-0.0096)Ala+(-0.0917)Cit+(-0.0209)Lys+(0.0048)Leu+(0.0695)Phe;0.737,0.782,0.669,0.676,0.597,0.772,0.730,0.694,(-1.3243)+(0.0324)Ser+(-0.0040)Gln+(-0.0111)Ala+(-0.0608)Tyr+(0.0493)Ile+(0.0473)Phe;0.737,0.781,0.711,0.702,0.643,0.814,0.800,0.740,(-1.7156)+(0.0373)Ser+(-0.0155)Thr+(-0.0136)Ala+(-0.0227)Arg+(0.0077)Pro+(0.0509)Ile;0.737,0.788,0.736,0.738,0.785,0.752,0.619,0.724,(0.5279)+(0.0244)Thr+(-0.0973)Cit+(-0.3573)Met+(0.0306)Orn+(-0.0096)Leu+(0.1008)Phe;0.737,0.777,0.769,0.763,0.744,0.814,0.806,0.782,(2.6644)+(-0.0078)Ala+(-0.0092)Arg+(-0.0089)Tyr+(-0.2061)Met+(0.0138)Orn+(0.0611)Ile;0.737,0.783,0.753,0.774,0.741,0.842,0.657,0.754,(0.5330)+(0.0330)Ser+(0.0004)Gln+(-0.0036)Ala+(-0.2155)Met+(0.0226)Orn+(-0.0059)Lys;0.737,0.781,0.753,0.762,0.776,0.831,0.625,0.748,(1.6256)+(0.0376)Ser+(-0.0672)Cit+(0.0099)Tyr+(-0.0008)Val+(-0.2321)Met+(-0.0021)Lys;0.737,0.778,0.776,0.780,0.740,0.799,0.821,0.785,(3.7488)+(-0.1773)Asn+(0.0224)Thr+(-0.0059)Ala+(-0.0453)Val+(0.0572)Leu+(0.0752)Phe;0.737,0.777,0.684,0.738,0.649,0.744,0.571,0.675,(-0.9811)+(0.0310)Ser+(-0.0312)Arg+(0.0085)Pro+(-0.0702)Tyr+(-0.0166)Val+(0.0907)Phe;0.737,0.775,0.725,0.745,0.732,0.699,0.677,0.713,(-1.8145)+(0.0007)Gly+(0.0030)Gln+(0.0186)Thr+(0.0057)Pro+(-0.4249)Met+(0.0938)Phe;0.737,0.789,0.742,0.759,0.747,0.808,0.637,0.738,(2.8790)+(0.0403)Ser+(-0.1138)Asn+(-0.0672)Cit+(-0.0238)Tyr+(-0.0074)Lys+(0.0067)Leu;

0.737,0.782,0.712,0.728,0.723,0.797,0.587,0.709,(0.2752)+(0.0395)Ser+(-0.0160)Arg+(0.0099)Pro+(-0.2701)Met+(0.0168)Orn+(-0.0042)Lys;0.737,0.783,0.784,0.799,0.754,0.844,0.761,0.789,(0.3270)+(0.0434)Ser+(-0.0073)Gly+(0.0018)Gln+(-0.0026)Ala+(0.0011)Tyr+(-0.2365)Met;0.737,0.777,0.740,0.759,0.721,0.763,0.710,0.738,(-1.1690)+(0.0441)Ser+(-0.1877)Asn+(0.0019)Gln+(-0.0055)Thr+(-0.0185)Leu+(0.0725)Phe;0.737,0.779,0.740,0.754,0.749,0.755,0.673,0.733,(3.2177)+(-0.0986)Asn+(-0.0989)Cit+(0.0023)Pro+(-0.0682)Tyr+(0.0471)Orn+(0.0636)Phe;0.737,0.778,0.784,0.794,0.750,0.802,0.815,0.790,(2.6413)+(-0.1820)Asn+(0.0042)Gln+(-0.0475)Val+(0.0325)Orn+(0.0509)Leu+(0.0571)Phe;0.737,0.774,0.733,0.710,0.725,0.843,0.728,0.752,(0.7795)+(0.0256)Ser+(-0.0026)Gly+(-0.0146)Ala+(-0.1215)Cit+(0.0104)Pro+(0.0419)Orn;0.737,0.780,0.709,0.735,0.745,0.712,0.562,0.688,(0.1819)+(0.0040)Gly+(0.0323)Thr+(-0.0878)Cit+(-0.0338)Tyr+(-0.3669)Met+(0.1224)Phe;0.737,0.777,0.741,0.761,0.734,0.830,0.639,0.741,(3.0048)+(0.0373)Ser+(-0.1484)Asn+(-0.0194)Arg+(0.0086)Pro+(-0.0176)Val+(0.0309)Orn;0.737,0.774,0.786,0.804,0.768,0.781,0.779,0.783,(-0.9296)+(0.0011)Gly+(0.0036)Gln+(-0.0056)Ala+(-0.2963)Met+(0.0113)Orn+(0.0888)Phe;0.737,0.774,0.763,0.780,0.761,0.749,0.732,0.755,(1.8971)+(-0.0415)Asn+(-0.0340)Tyr+(-0.1956)Met+(0.0235)Orn+(-0.0085)Lys+(0.0897)Phe;0.737,0.785,0.742,0.746,0.697,0.836,0.756,0.759,(1.1259)+(0.0408)Ser+(-0.1370)Asn+(-0.0082)Thr+(-0.0093)Ala+(0.0110)Pro+(0.0182)Orn;0.737,0.776,0.721,0.747,0.688,0.787,0.670,0.723,(-0.5853)+(0.0298)Ser+(-0.0005)Gln+(-0.0086)Ala+(-0.0870)Cit+(-0.0550)Tyr+(0.0820)Phe;0.737,0.784,0.744,0.749,0.767,0.804,0.640,0.740,(0.0894)+(0.0378)Ser+(0.0024)Gln+(-0.0757)Cit+(0.0057)Tyr+(-0.2824)Met+(0.0116)Leu;0.737,0.784,0.752,0.764,0.749,0.809,0.687,0.752,(0.9027)+(0.0466)Ser+(-0.0081)Gly+(-0.0158)Arg+(-0.0098)Tyr+(-0.2290)Met+(0.0239)Orn;0.737,0.782,0.751,0.743,0.717,0.805,0.801,0.767,(3.3002)+(-0.0888)Asn+(-0.0017)Th

r+(0.0152)Orn+(-0.0060)Lys+(0.1392)Ile+(-0.0804)Leu;0.737,0.775,0.751,0.772,0.761,0.738,0.687,0.739,(-1.1120)+(0.0039)Gln+(0.0232)Thr+(-0.3752)Met+(-0.0116)Lys+(-0.0043)Leu+(0.1043)Phe;0.737,0.776,0.752,0.786,0.768,0.735,0.644,0.733,(-1.2941)+(0.0049)Gln+(0.0273)Thr+(-0.0261)Arg+(-0.3884)Met+(-0.0101)Leu+(0.1085)Phe;0.737,0.775,0.746,0.749,0.705,0.828,0.766,0.762,(2.5059)
+(0.0025)Gly+(0.0060)Thr+(-0.0124)Ala+(-0.0945)Cit+(-0.0371)Tyr+(0.0643)Ile;0.737,0.782,0.698,0.689,0.637,0.794,0.780,0.725,(-1.5351)+(0.0329)Ser+(-0.0281)Thr+(-0.0042)Pro+(0.0083)Orn+(0.1697)Ile+(-0.0942)Leu;0.737,0.786,0.746,0.752,0.766,0.812,0.637,0.742,(0.4014)+(0.0379)Ser+(0.0029)Gln+(-0.0762)Cit+(-0.2489)Met+(-0.0078)Lys+(0.0153)Leu;0.737,0.780,0.758,0.755,0.713,0.833,0.802,0.776,(1.7123)+(0.0477)Ser+(-0.1317)Asn+(-0.0057)Gly+(-0.0044)Thr+(-0.0091)Ala+(0.0118)Pro;0.737,0.776,0.724,0.746,0.740,0.699,0.650,0.709,(-0.6075)+(0.0014)Gly+(0.0199)Thr+(0.0075)Pro+(-0.3946)Met+(-0.0127)Leu+(0.1060)Phe;0.737,0.774,0.737,0.755,0.756,0.709,0.666,0.721,(0.2636)+(-0.0576)Asn+(0.0020)Gly+(0.0234)Thr+(-0.3397)Met+(0.0024)Orn+(0.0922)Phe;0.737,0.773,0.805,0.810,0.778,0.831,0.831,0.813,(1.6999)+(-0.1202)Asn+(0.0065)Gln+(-0.0113)Ala+(-0.0887)Cit+(0.0089)Pro+(0.0556)Phe;0.737,0.783,0.722,0.766,0.670,0.799,0.656,0.723,(-1.2857)+(0.0293)Ser+(-0.0081)Ala+(-0.0292)Arg+(-0.0591)Tyr+(0.0170)Orn+(0.0736)Phe;0.737,0.783,0.721,0.744,0.717,0.810,0.606,0.719,(0.8711)+(0.0347)Ser+(0.0071)Thr+(0.0124)Pro+(-0.0082)Val+(-0.2919)Met+(-0.0014)Lys;0.737,0.777,0.801,0.819,0.792,0.794,0.778,0.796,(-0.5506)+(0.0069)Gln+(-0.0058)Ala+(-0.0800)Cit+(-0.0024)Arg+(-0.2677)Met+(0.0991)Phe;0.736,0.783,0.750,0.769,0.782,0.742,0.639,0.733,(-1.2858)+(0.0059)Gln+(0.0301)Thr+(-0.0804)Cit+(-0.0137)Arg+(-0.4099)Met+(0.1065)Phe;0.736,0.782,0.729,0.754,0.728,0.810,0.610,0.725,(1.1762)+(0.0385)Ser+(-0.0165)Arg+(0.0136)Pro+(-0.0089)Val+(-0.2622)M

et+(0.0030)Lys;0.736,0.781,0.754,0.764,0.776,0.829,0.626,0.749,(1.606
3)+(0.0374)Ser+(-0.0649)Cit+(-0.0025)Arg+(0.0098)Tyr+(-0.0014)Val+(-0
.2355)Met;0.736,0.779,0.826,0.838,0.801,0.844,0.831,0.829,(3.5107)+(-
0.0935)Asn+(0.0088)Gln+(-0.0561)Cit+(-0.0360)Val+(-0.1684)Met+(0.0610
)Leu;0.736,0.779,0.755,0.754,0.733,0.813,0.763,0.766,(3.7193)+(-0.070
7)Asn+(-0.0253)Arg+(-0.0046)Pro+(0.0226)Orn+(0.1575)Ile+(-0.0908)Leu;
0.736,0.778,0.768,0.775,0.746,0.835,0.745,0.775,(2.9461)+(0.0443)Ser+
(-0.1553)Asn+(-0.0068)Gly+(-0.0013)Thr+(-0.0148)Val+(0.0308)Orn;0.736
,0.774,0.780,0.776,0.795,0.849,0.713,0.783,(4.9115)+(-0.0069)Ala+(-0.
1114)Cit+(-0.0109)Tyr+(-0.0934)Met+(0.0625)Orn+(-0.0083)Lys;0.736,0.7
83,0.752,0.764,0.738,0.808,0.708,0.755,(0.1293)+(0.0450)Ser+(-0.0082)
Gly+(0.0008)Gln+(-0.0087)Tyr+(-0.2557)Met+(0.0191)Orn;0.736,0.770,0.7
95,0.820,0.789,0.757,0.772,0.784,(2.3173)+(-0.0560)Asn+(-0.0067)Arg+(
-0.0164)Val+(-0.2188)Met+(0.0055)Lys+(0.1120)Phe;0.736,0.778,0.733,0.
760,0.741,0.712,0.661,0.718,(1.4667)+(-0.0551)Asn+(0.0320)Thr+(-0.041
5)Tyr+(-0.2727)Met+(-0.0102)Lys+(0.1116)Phe;0.736,0.773,0.805,0.833,0
.803,0.764,0.766,0.791,(-0.3686)+(-0.0597)Asn+(0.0073)Gln+(-0.0139)Ar
g+(-0.2572)Met+(-0.0111)Leu+(0.0965)Phe;0.736,0.786,0.731,0.742,0.694
,0.820,0.716,0.743,(3.3244)+(0.0377)Ser+(-0.1825)Asn+(0.0105)Thr+(-0.
0184)Tyr+(-0.0448)Val+(0.0694)Leu;0.736,0.779,0.781,0.782,0.800,0.837
,0.699,0.779,(5.6611)+(-0.0683)Asn+(-0.0952)Cit+(-0.0112)Val+(-0.0922
)Met+(0.0616)Orn+(-0.0023)Lys;0.736,0.778,0.793,0.829,0.760,0.860,0.7
19,0.792,(2.1428)+(0.0347)Ser+(-0.1384)Asn+(0.0039)Gln+(-0.0031)Ala+(
-0.0141)Arg+(-0.0086)Val;0.736,0.774,0.769,0.764,0.739,0.811,0.817,0.
783,(2.7493)+(-0.0211)Asn+(-0.0077)Ala+(-0.0110)Tyr+(-0.1951)Met+(0.0
122)Orn+(0.0600)Ile;0.736,0.778,0.727,0.719,0.682,0.777,0.804,0.745,(
0.3967)+(0.0004)Gln+(-0.0074)Pro+(-0.0170)Lys+(0.1565)Ile+(-0.0895)Le
u+(0.0429)Phe;0.736,0.779,0.728,0.762,0.692,0.783,0.674,0.728,(-0.534

4)+(0.0284)Ser+(-0.0071)Ala+(-0.0800)Cit+(-0.0546)Tyr+(-0.0074)Val+(0.0923)Phe;0.736,0.779,0.736,0.751,0.723,0.776,0.696,0.736,(-0.9268)+(0.0444)Ser+(-0.1750)Asn+(0.0020)Gln+(-0.0116)Lys+(-0.0133)Leu+(0.0741)Phe;0.736,0.774,0.730,0.715,0.724,0.840,0.701,0.745,(0.8998)+(0.0220)Ser+(-0.0145)Ala+(-0.1249)Cit+(0.0111)Pro+(0.0439)Orn+(-0.0036)Leu;0.736,0.773,0.773,0.779,0.788,0.761,0.738,0.767,(1.6048)+(-0.0310)Asn+(-0.0077)Arg+(-0.2454)Met+(0.0216)Orn+(-0.0076)Lys+(0.0816)Phe;0.736,0.770,0.733,0.743,0.755,0.725,0.668,0.723,(0.0998)+(0.0008)Gly+(0.0236)Thr+(-0.3576)Met+(0.0079)Orn+(-0.0125)Lys+(0.0986)Phe;0.736,0.776,0.784,0.833,0.740,0.749,0.774,0.774,(2.1236)+(-0.1409)Asn+(0.0055)Gln+(0.0078)Pro+(-0.0586)Tyr+(-0.0189)Val+(0.0955)Phe;0.736,0.783,0.780,0.819,0.746,0.841,0.707,0.778,(1.6496)+(0.0353)Ser+(-0.1287)Asn+(0.0036)Gln+(-0.0041)Ala+(-0.0136)Arg+(-0.0205)Tyr;0.736,0.781,0.764,0.787,0.777,0.759,0.678,0.750,(0.6324)+(0.0300)Thr+(-0.0051)Ala+(-0.0202)Arg+(-0.3331)Met+(-0.0061)Leu+(0.1076)Phe;0.736,0.778,0.775,0.769,0.765,0.803,0.790,0.782,(1.1374)+(-0.0348)Asn+(0.0011)Gly+(0.0055)Gln+(-0.2538)Met+(-0.0110)Lys+(0.0561)Ile;0.736,0.775,0.787,0.811,0.782,0.762,0.750,0.776,(3.1178)+(-0.0514)Asn+(-0.0503)Cit+(-0.0237)Tyr+(-0.0123)Val+(-0.1666)Met+(0.1186)Phe;0.736,0.774,0.734,0.755,0.765,0.723,0.623,0.717,(0.5779)+(-0.0466)Asn+(0.0024)Gly+(0.0289)Thr+(-0.0185)Arg+(-0.3412)Met+(0.0974)Phe;0.736,0.783,0.753,0.771,0.743,0.842,0.660,0.754,(0.5690)+(0.0338)Ser+(-0.0037)Ala+(0.0035)Tyr+(-0.2194)Met+(0.0226)Orn+(-0.0059)Lys;0.736,0.782,0.718,0.701,0.713,0.771,0.737,0.730,(-0.4820)+(0.0545)Ser+(-0.1558)Asn+(-0.0061)Gly+(0.0159)Orn+(-0.0190)Lys+(0.0566)Phe;0.736,0.774,0.772,0.797,0.759,0.832,0.690,0.770,(2.2684)+(0.0338)Ser+(-0.1618)Asn+(0.0049)Gln+(0.0025)Thr+(-0.0682)Cit+(-0.0086)Val;0.736,0.778,0.705,0.726,0.707,0.779,0.593,0.702,(-0.1285)+(0.0372)Ser+(0.0001)Gln+(0.0055)Thr+(0.0103)Pro+(-0.0065)Tyr+(-0.3078)Met

;0.736,0.777,0.731,0.732,0.702,0.800,0.738,0.743,(0.0735)+(0.0027)Gln+(-0.0715)Cit+(-0.0258)Arg+(0.1645)Ile+(-0.1026)Leu+(0.0498)Phe;0.736,0.777,0.753,0.794,0.759,0.729,0.649,0.733,(3.5432)+(-0.1254)Asn+(0.0222)Thr+(-0.0707)Cit+(-0.0699)Tyr+(-0.0164)Leu+(0.1025)Phe;0.736,0.775,0.751,0.770,0.770,0.799,0.631,0.742,(5.4356)+(-0.1040)Asn+(0.0108)Thr+(-0.1034)Cit+(-0.0454)Tyr+(0.0546)Orn+(-0.0083)Leu;0.736,0.774,0.794,0.818,0.797,0.762,0.744,0.780,(-0.7987)+(-0.0579)Asn+(0.0021)Gly+(0.0068)Gln+(-0.0142)Arg+(-0.2810)Met+(0.0891)Phe;0.736,0.781,0.753,0.768,0.745,0.797,0.699,0.752,(3.0177)+(0.0456)Ser+(-0.1208)Asn+(-0.0051)Gly+(-0.0589)Cit+(-0.0312)Tyr+(0.0019)Leu;0.736,0.780,0.653,0.667,0.646,0.727,0.576,0.654,(-1.7913)+(0.0328)Ser+(-0.0754)Cit+(-0.0192)Arg+(-0.0802)Tyr+(0.0340)Ile+(0.0593)Phe;0.736,0.784,0.743,0.763,0.699,0.834,0.720,0.754,(2.3936)+(0.0385)Ser+(-0.1182)Asn+(-0.0077)Ala+(0.0136)Pro+(-0.0260)Tyr+(-0.0053)Lys;0.736,0.783,0.663,0.665,0.677,0.764,0.557,0.666,(-0.0187)+(0.0267)Ser+(-0.0938)Cit+(-0.0172)Arg+(-0.0658)Tyr+(0.0312)Orn+(0.0363)Ile;0.736,0.782,0.800,0.833,0.778,0.790,0.767,0.792,(1.2465)+(-0.1165)Asn+(0.0089)Gln+(-0.0825)Cit+(-0.0598)Tyr+(-0.0098)Lys+(0.0861)Phe;0.736,0.778,0.753,0.745,0.768,0.792,0.718,0.756,(0.7414)+(0.0035)Gly+(0.0052)Gln+(-0.0848)Cit+(0.0018)Pro+(-0.3006)Met+(0.0567)Ile;0.736,0.777,0.748,0.763,0.759,0.741,0.689,0.738,(-1.0834)+(0.0038)Gln+(0.0226)Thr+(-0.3757)Met+(0.0045)Orn+(-0.0134)Lys+(0.0995)Phe;0.736,0.776,0.757,0.730,0.774,0.795,0.768,0.767,(3.4522)+(-0.0733)Cit+(0.0101)Arg+(0.0016)Pro+(-0.2343)Met+(-0.0111)Lys+(0.0603)Ile;0.736,0.780,0.775,0.778,0.735,0.849,0.799,0.790,(5.2197)+(-0.1559)Asn+(0.0152)Thr+(-0.0050)Ala+(-0.0480)Val+(0.0362)Orn+(0.0671)Leu;0.736,0.773,0.732,0.722,0.716,0.844,0.714,0.749,(1.1881)+(0.0203)Ser+(-0.0106)Ala+(-0.1131)Cit+(-0.0253)Val+(0.0526)Orn+(0.0363)Leu;0.736,0.779,0.771,0.776,0.778,0.830,0.702,0.771,(4.6787)+(0.0224)Thr+(-0.008

9)Ala+(-0.0786)Cit+(-0.0029)Arg+(0.0149)Pro+(-0.2277)Met;0.736,0.779,0.671,0.676,0.647,0.713,0.676,0.678,(-1.4385)+(0.0379)Ser+(-0.0069)Gly+(-0.0811)Cit+(-0.0897)Tyr+(0.0311)Ile+(0.0547)Phe;0.736,0.777,0.752,0.755,0.708,0.808,0.795,0.767,(3.0440)+(-0.0956)Asn+(0.0021)Gly+(-0.0013)Thr+(-0.0038)Pro+(0.1503)Ile+(-0.0837)Leu;0.736,0.771,0.744,0.758,0.770,0.736,0.658,0.730,(1.2141)+(-0.0391)Asn+(0.0311)Thr+(-0.0151)Arg+(-0.3265)Met+(-0.0079)Lys+(0.0988)Phe;0.736,0.778,0.770,0.757,0.775,0.839,0.743,0.778,(2.6498)+(-0.0096)Ala+(-0.1196)Cit+(-0.0086)Val+(0.0632)Orn+(-0.0164)Lys+(0.0647)Phe;0.736,0.776,0.759,0.785,0.756,0.725,0.721,0.747,(-1.3138)+(0.0014)Gly+(0.0040)Gln+(0.0081)Pro+(-0.3527)Met+(-0.0129)Leu+(0.0996)Phe;0.736,0.775,0.770,0.762,0.790,0.838,0.697,0.772,(3.7298)+(0.0029)Gly+(-0.0079)Ala+(-0.1141)Cit+(-0.1492)Met+(0.0538)Orn+(0.0052)Leu;0.736,0.774,0.777,0.775,0.745,0.819,0.822,0.790,(4.2687)+(-0.0064)Ala+(0.0144)Pro+(0.0071)Tyr+(-0.0363)Val+(-0.2353)Met+(0.0606)Leu;0.736,0.781,0.743,0.756,0.727,0.826,0.679,0.747,(-0.2390)+(0.0364)Ser+(-0.0001)Gln+(-0.0043)Ala+(-0.2565)Met+(0.0157)Orn+(0.0105)Leu;0.736,0.780,0.716,0.703,0.706,0.762,0.737,0.727,(-0.4857)+(0.0551)Ser+(-0.1556)Asn+(-0.0058)Gly+(0.0024)Pro+(-0.0175)Lys+(0.0593)Phe;0.736,0.775,0.780,0.791,0.749,0.781,0.817,0.785,(2.5750)+(-0.2143)Asn+(0.0046)Gln+(0.0191)Thr+(-0.0485)Val+(0.0550)Leu+(0.0666)Phe;0.736,0.774,0.765,0.741,0.775,0.853,0.744,0.778,(4.2432)+(-0.0126)Ala+(-0.1248)Cit+(0.0101)Pro+(0.0606)Orn+(-0.0163)Lys+(0.0026)Leu;0.736,0.777,0.695,0.664,0.718,0.838,0.624,0.711,(1.3399)+(0.0272)Ser+(-0.1063)Cit+(-0.0289)Val+(0.0566)Orn+(-0.0268)Lys+(0.0446)Leu;0.736,0.780,0.761,0.774,0.755,0.812,0.705,0.762,(3.3506)+(0.0460)Ser+(-0.1098)Asn+(-0.0055)Gly+(-0.0574)Cit+(-0.0250)Tyr+(-0.0055)Lys;0.736,0.779,0.773,0.768,0.756,0.833,0.778,0.784,(3.4501)+(-0.0002)Gly+(0.0039)Tyr+(-0.0423)Val+(-0.2493)Met+(0.0347)Orn+(0.0656)Leu;0.736,0.778,0.768,0.

765,0.741,0.814,0.799,0.780,(2.2981)+(0.0027)Gly+(-0.0078)Ala+(-0.007
7)Arg+(-0.0025)Tyr+(-0.2221)Met+(0.0679)Ile;0.736,0.774,0.776,0.777,0
.743,0.817,0.816,0.788,(4.4260)+(-0.0063)Ala+(-0.0017)Arg+(0.0146)Pro
+(-0.0351)Val+(-0.2212)Met+(0.0587)Leu;0.736,0.784,0.712,0.746,0.713,
0.682,0.639,0.695,(-0.1181)+(0.0246)Thr+(0.0093)Pro+(-0.0432)Tyr+(-0.
3537)Met+(-0.0135)Leu+(0.1201)Phe;0.736,0.783,0.753,0.768,0.721,0.840
,0.716,0.761,(1.9670)+(0.0394)Ser+(-0.1238)Asn+(-0.0085)Ala+(-0.0146)
Arg+(0.0123)Pro+(-0.0028)Leu;0.736,0.774,0.734,0.737,0.770,0.747,0.64
3,0.724,(0.6887)+(0.0063)Gly+(-0.0753)Cit+(0.0079)Pro+(-0.3048)Met+(-
0.0064)Lys+(0.1032)Phe;0.736,0.786,0.741,0.746,0.781,0.745,0.643,0.72
9,(-1.1452)+(0.0043)Gln+(0.0240)Thr+(-0.1012)Cit+(-0.4002)Met+(0.0213
)Orn+(0.0976)Phe;0.736,0.779,0.774,0.809,0.748,0.846,0.687,0.772,(3.1
094)+(0.0375)Ser+(-0.1177)Asn+(-0.0028)Ala+(-0.0105)Arg+(-0.0112)Tyr+
(-0.0068)Val;0.736,0.777,0.769,0.767,0.760,0.800,0.769,0.774,(0.9664)
+(0.0009)Gly+(0.0053)Gln+(-0.
0107)Arg+(-0.2733)Met+(-0.0106)Lys+(0.0589)Ile;0.736,0.784,0.741,0.74
7,0.733,0.794,0.705,0.745,(-0.0657)+(0.0473)Ser+(-0.0079)Gly+(-0.0090
)Tyr+(-0.2683)Met+(0.0173)Orn+(0.0064)Leu;0.736,0.778,0.746,0.745,0.7
09,0.796,0.790,0.760,(2.8734)+(-0.0991)Asn+(0.0018)Gly+(-0.0040)Thr+(
0.0127)Orn+(0.1417)Ile+(-0.0837)Leu;0.736,0.775,0.802,0.834,0.773,0.7
75,0.797,0.795,(-0.0152)+(-0.0671)Asn+(0.0063)Gln+(-0.0045)Ala+(-0.02
77)Tyr+(-0.2054)Met+(0.0964)Phe;0.736,0.782,0.785,0.803,0.753,0.846,0
.761,0.791,(0.5216)+(0.0434)Ser+(-0.0075)Gly+(0.0021)Gln+(-0.0024)Ala
+(-0.2202)Met+(-0.0037)Lys;0.736,0.775,0.726,0.758,0.692,0.789,0.669,
0.727,(-0.6431)+(0.0288)Ser+(-0.0081)Ala+(-0.0862)Cit+(-0.0556)Tyr+(-
0.0055)Leu+(0.0874)Phe;0.736,0.789,0.723,0.716,0.774,0.739,0.624,0.71
3,(0.3235)+(0.0257)Thr+(-0.0963)Cit+(0.0050)Pro+(-0.3932)Met+(0.0237)
Orn+(0.0926)Phe;0.736,0.774,0.756,0.761,0.771,0.828,0.658,0.755,(5.25

22)+(-0.1214)Asn+(0.0031)Gly+(-0.0985)Cit+(0.0057)Pro+(-0.0165)Val+(0.0591)Orn;0.736,0.773,0.717,0.697,0.706,0.825,0.717,0.736,(-0.7759)+(0.0240)Ser+(-0.0158)Ala+(-0.1268)Cit+(0.0090)Pro+(0.0385)Orn+(0.0360)Phe;0.736,0.779,0.742,0.702,0.782,0.805,0.721,0.753,(3.2144)+(-0.0817)Asn+(-0.1076)Cit+(0.0472)Orn+(-0.0220)Lys+(0.0259)Ile+(0.0312)Phe;0.736,0.775,0.762,0.767,0.711,0.836,0.801,0.779,(1.6766)+(0.0020)Gly+(0.0029)Gln+(-0.0125)Ala+(-0.0966)Cit+(-0.0361)Tyr+(0.0641)Ile;0.736,0.783,0.757,0.753,0.718,0.810,0.808,0.772,(3.1248)+(-0.0941)Asn+(-0.0027)Thr+(-0.0045)Pro+(0.0153)Orn+(0.1479)Ile+(-0.0850)Leu;0.736,0.783,0.755,0.764,0.743,0.816,0.715,0.760,(0.2823)+(0.0452)Ser+(-0.0083)Gly+(0.0012)Gln+(-0.2434)Met+(0.0222)Orn+(-0.0077)Lys;0.736,0.778,0.795,0.821,0.779,0.783,0.768,0.788,(-0.4595)+(0.0070)Gln+(-0.0054)Ala+(-0.0811)Cit+(-0.0212)Tyr+(-0.2455)Met+(0.1058)Phe;0.736,0.776,0.772,0.806,0.751,0.848,0.674,0.770,(3.1840)+(0.0355)Ser+(-0.1298)Asn+(0.0066)Thr+(-0.0033)Ala+(-0.0132)Arg+(-0.0086)Val;0.736,0.773,0.733,0.714,0.727,0.823,0.730,0.749,(-0.7458)+(0.0263)Ser+(-0.0023)Gly+(-0.0134)Ala+(-0.1236)Cit+(0.0417)Orn+(0.0416)Phe;0.736,0.778,0.755,0.773,0.719,0.814,0.738,0.761,(5.5830)+(-0.1590)Asn+(0.0176)Thr+(-0.0327)Tyr+(-0.0473)Val+(0.0386)Orn+(0.0638)Leu;0.736,0.774,0.733,0.723,0.730,0.824,0.701,0.745,(-0.7888)+(0.0231)Ser+(-0.0127)Ala+(-0.1255)Cit+(0.0443)Orn+(-0.0086)Leu+(0.0519)Phe;0.736,0.776,0.741,0.696,0.778,0.817,0.726,0.754,(3.9122)+(-0.0808)Asn+(-0.1142)Cit+(0.0088)Arg+(0.0488)Orn+(-0.0219)Lys+(0.0326)Ile;0.736,0.777,0.742,0.746,0.736,0.716,0.761,0.740,(0.8975)+(-0.0257)Asn+(0.0045)Pro+(-0.0331)Tyr+(-0.2792)Met+(0.0353)Ile+(0.0771)Phe;0.736,0.779,0.717,0.726,0.708,0.761,0.678,0.718,(-0.5562)+(0.0462)Ser+(-0.1688)Asn+(0.0042)Pro+(-0.0119)Lys+(-0.0153)Leu+(0.0744)Phe;0.736,0.779,0.728,0.726,0.744,0.805,0.643,0.730,(2.4059)+(0.0410)Ser+(-0.1262)Asn+(0.0003)Thr+(-0.0709)Cit+(0.0058)Pro+(-0.0101)Ly

s;0.736,0.783,0.735,0.737,0.763,0.804,0.625,0.732,(0.7164)+(0.0407)Se r+(-0.0705)Cit+(-0.0012)Arg+(0.0062)Tyr+(-0.2715)Met+(0.0123)Leu;0.73 6,0.781,0.751,0.779,0.733,0.829,0.656,0.749,(3.0572)+(0.0343)Ser+(-0. 1416)Asn+(-0.0229)Tyr+(-0.0115)Val+(0.0338)Orn+(-0.0030)Lys;0.736,0.7 81,0.751,0.777,0.719,0.822,0.696,0.753,(2.0182)+(0.0364)Ser+(-0.1341) Asn+(-0.0011)Thr+(-0.0050)Ala+(-0.0267)Tyr+(0.0252)Orn;0.736,0.779,0. 779,0.785,0.808,0.819,0.675,0.772,(2.8784)+(-0.0867)Asn+(0.0058)Gln+(0.0170)Thr+(-0.1023)Cit+(-0.2107)Met+(0.0361)Orn;0.736,0.774,0.739,0. 743,0.703,0.791,0.767,0.751,(1.2263)+(-0.0308)Arg+(-0.0062)Pro+(-0.00 62)Lys+(0.1690)Ile+(-0.1010)Leu+(0.0512)Phe;0.736,0.781,0.701,0.715,0 .705,0.781,0.601,0.700,(-0.6986)+(0.0386)Ser+(0.0039)Thr+(0.0090)Pro+ (-0.3281)Met+(0.0067)Orn+(0.0046)Leu;0.736,0.779,0.773,0.795,0.768,0. 760,0.737,0.765,(-0.4236)+(0.0044)Gln+(-0.0289)Tyr+(-0.2693)Met+(0.01 69)Orn+(-0.0114)Lys+(0.0956)Phe;0.736,0.778,0.739,0.726,0.763,0.782,0 .693,0.741,(2.7521)+(-0.0255)Asn+(0.0056)Gly+(-0.0768)Cit+(0.0026)Pro +(-0.2430)Met+(0.0547)Ile;0.736,0.785,0.752,0.760,0.751,0.813,0.690,0 .753,(0.9330)+(0.0470)Ser+(-0.0079)Gly+(-0.0138)Arg+(-0.2286)Met+(0.0 253)Orn+(-0.0053)Lys;0.736,0.782,0.757,0.784,0.753,0.822,0.650,0.752, (3.5526)+(0.0380)Ser+(-0.1224)Asn+(-0.0577)Cit+(-0.0025)Arg+(-0.0167) Tyr+(-0.0058)Val;0.735,0.776,0.737,0.750,0.754,0.784,0.634,0.730,(4.9 535)+(-0.1064)Asn+(0.0109)Thr+(-0.1027)Cit+(0.0037)Pro+(-0.0543)Tyr+(0.0492)Orn;0.735,0.783,0.753,0.777,0.727,0.831,0.689,0.756,(2.2649)+(0.0365)Ser+(-0.1231)Asn+(-0.0047)Ala+(-0.0232)Tyr+(0.0282)Orn+(-0.007 2)Lys;0.735,0.778,0.751,0.755,0.729,0.823,0.736,0.761,(2.9635)+(0.044 8)Ser+(-0.1650)Asn+(-0.0069)Gly+(0.0081)Pro+(-0.0182)Val+(0.0276)Orn; 0.735,0.774,0.744,0.708,0.778,0.819,0.710,0.754,(4.0604)+(-0.0720)Asn +(-0.1083)Cit+(-0.0040)Pro+(0.0498)Orn+(-0.0203)Lys+(0.0367)Ile;0.735 ,0.772,0.748,0.776,0.756,0.713,0.682,0.732,(-1.5605)+(0.0002)Gly+(0.0

034)Gln+(0.0202)Thr+(-0.3920)Met+(-0.0097)Leu+(0.1031)Phe;0.735,0.771,0.728,0.725,0.698,0.812,0.739,0.743,(1.9348)+(0.0033)Gly+(-0.0086)Thr+(-0.0840)Cit+(-0.0055)Pro+(0.1718)Ile+(-0.0915)Leu;0.735,0.785,0.720,0.738,0.742,0.799,0.573,0.713,(0.1315)+(0.0357)Ser+(0.0099)Thr+(-0.0178)Arg+(-0.2904)Met+(0.0136)Orn+(0.0070)Leu;0.735,0.782,0.761,0.763,0.801,0.837,0.619,0.755,(4.4120)+(0.0162)Thr+(-0.0999)Cit+(-0.0076)Val+(-0.2025)Met+(0.0522)Orn+(-0.0077)Lys;0.735,0.781,0.788,0.809,0.765,0.838,0.744,0.789,(0.6013)+(0.0438)Ser+(-0.0075)Gly+(0.0028)Gln+(-0.0024)Ala+(-0.0139)Arg+(-0.2187)Met;0.735,0.778,0.780,0.782,0.798,0.833,0.699,0.778,(5.5807)+(-0.0712)Asn+(-0.0947)Cit+(0.0007)Arg+(-0.0117)Val+(-0.0975)Met+(0.0604)Orn;0.735,0.773,0.753,0.758,0.762,0.768,0.710,0.749,(0.9431)+(-0.0442)Asn+(0.0054)Gln+(0.0215)Thr+(-0.0204)Arg+(-0.3129)Met+(0.0491)Ile;0.735,0.786,0.741,0.749,0.702,0.831,0.737,0.755,(3.0108)+(0.0423)Ser+(-0.1601)Asn+(-0.0104)Tyr+(-0.0419)Val+(-0.0048)Lys+(0.0679)Leu;0.735,0.774,0.775,0.776,0.739,0.814,0.817,0.787,(4.2096)+(-0.0063)Ala+(0.0148)Pro+(-0.0363)Val+(-0.2335)Met+(0.0029)Lys+(0.0593)Leu;0.735,0.774,0.805,0.818,0.754,0.854,0.840,0.817,(4.1262)+(-0.1725)Asn+(0.0049)Gln+(0.0176)Thr+(-0.0048)Ala+(-0.0438)Val+(0.0650)Leu;0.735,0.772,0.762,0.772,0.777,0.760,0.703,0.753,(0.7509)+(0.0020)Gly+(-0.0102)Arg+(-0.2799)Met+(0.0197)Orn+(-0.0081)Lys+(0.0872)Phe;0.735,0.772,0.757,0.778,0.765,0.725,0.710,0.744,(0.8335)+(-0.0452)Asn+(0.0034)Gly+(0.0083)Pro+(-0.2798)Met+(-0.0139)Leu+(0.0997)Phe;0.735,0.773,0.774,0.773,0.793,0.834,0.697,0.774,(5.7457)+(-0.0989)Asn+(-0.0998)Cit+(0.0009)Arg+(-0.0132)Val+(0.0639)Orn+(-0.0055)Lys;0.735,0.772,0.803,0.826,0.799,0.761,0.781,0.792,(-0.3060)+(-0.0616)Asn+(0.0066)Gln+(-0.2604)Met+(-0.0048)Lys+(-0.0087)Leu+(0.0949)Phe;0.735,0.779,0.778,0.771,0.768,0.804,0.798,0.785,(1.2221)+(-0.0333)Asn+(0.0057)Gln+(0.0012)Pro+(-0.2564)Met+(-0.0110)Lys+(0.0542)Ile;0.735,0.787,0.763,0

.773,0.748,0.838,0.717,0.769,(1.1767)+(0.0436)Ser+(-0.0082)Gly+(-0.0061)Val+(-0.2248)Met+(0.0274)Orn+(-0.0050)Lys;0.735,0.782,0.757,0.787,0.745,0.851,0.632,0.754,(0.6452)+(0.0313)Ser+(0.0011)Gln+(0.0098)Thr+(-0.0030)Ala+(-0.2454)Met+(-0.0040)Lys;0.735,0.776,0.782,0.773,0.737,0.832,0.863,0.801,(2.6682)+(-0.0763)Asn+(-0.0118)Ala+(0.0062)Pro+(-0.0141)Lys+(0.0416)Ile+(0.0343)Phe;0.735,0.776,0.779,0.780,0.790,0.845,0.707,0.781,(4.6601)+(-0.0060)Ala+(-0.1054)Cit+(-0.0096)Tyr+(-0.0058)Val+(-0.1160)Met+(0.0603)Orn;0.735,0.775,0.740,0.733,0.735,0.788,0.736,0.748,(0.9877)+(-0.0004)Gly+(0.0038)Gln+(0.0180)Thr+(-0.3248)Met+(-0.0148)Lys+(0.0605)Ile;0.735,0.783,0.730,0.744,0.725,0.779,0.670,0.729,(-1.1694)+(0.0467)Ser+(-0.1612)Asn+(0.0024)Gln+(-0.0168)Arg+(-0.0132)Lys+(0.0640)Phe;0.735,0.781,0.744,0.778,0.760,0.833,0.559,0.733,(1.5454)+(0.0319)Ser+(0.0143)Thr+(-0.0172)Arg+(-0.0048)Val+(-0.2524)Met+(0.0003)Lys;0.735,0.776,0.737,0.744,0.702,0.791,0.753,0.748,(0.3979)+(0.0024)Gln+(-0.0352)Arg+(-0.0076)Lys+(0.1591)Ile+(-0.0989)Leu+(0.0450)Phe;0.735,0.775,0.738,0.731,0.734,0.787,0.734,0.746,(0.9564)+(0.0037)Gln+(0.0179)Thr+(-0.3253)Met+(-0.0005)Orn+(-0.0147)Lys+(0.0609)Ile;0.735,0.774,0.736,0.742,0.733,0.725,0.733,0.733,(0.3567)+(-0.0317)Asn+(0.0034)Gly+(-0.0273)Tyr+(-0.2834)Met+(0.0415)Ile+(0.0782)Phe;0.735,0.775,0.755,0.770,0.771,0.732,0.700,0.743,(0.7117)+(-0.0342)Asn+(0.0037)Gly+(-0.0093)Arg+(0.0070)Pro+(-0.2954)Met+(0.0889)Phe;0.735,0.774,0.730,0.719,0.723,0.821,0.712,0.744,(2.4725)+(-0.0919)Cit+(-0.0192)Arg+(-0.0075)Pro+(0.0381)Orn+(0.1657)Ile+(-0.0946)Leu;0.735,0.774,0.786,0.802,0.756,0.815,0.785,0.790,(2.6808)+(0.0048)Gln+(-0.0084)Arg+(0.0102)Pro+(-0.0373)Val+(-0.2736)Met+(0.0574)Leu;0.735,0.774,0.743,0.769,0.763,0.728,0.644,0.726,(-1.4545)+(0.0048)Gln+(0.0269)Thr+(-0.0261)Arg+(-0.4036)Met+(0.0014)Orn+(0.0986)Phe;0.735,0.788,0.732,0.730,0.787,0.749,0.610,0.719,(0.6172)+(0.0280)Thr+(-0.0918)Cit+(-0.0088)Arg+(-0

.3723)Met+(0.0268)Orn+(0.0938)Phe;0.735,0.783,0.734,0.761,0.730,0.813,0.614,0.729,(0.8653)+(0.0370)Ser+(0.0015)Gln+(-0.0164)Arg+(0.0132)Pro+(-0.0083)Val+(-0.2587)Met;0.735,0.776,0.750,0.749,0.729,0.807,0.757,0.760,(3.7018)+(-0.0723)Asn+(-0.0247)Arg+(0.0206)Orn+(-0.0012)Lys+(0.1490)Ile+(-0.0884)Leu;0.735,0.774,0.762,0.769,0.782,0.813,0.667,0.758,(5.5972)+(-0.0737)Asn+(-0.1038)Cit+(-0.0363)Tyr+(0.0619)Orn+(-0.0087)Lys+(-0.0046)Leu;0.735,0.775,0.724,0.724,0.727,0.788,0.672,0.728,(1.1988)+(0.0361)Ser+(-0.0073)Gly+(-0.0117)Thr+(-0.0996)Cit+(-0.0574)Tyr+(0.0465)Orn;0.735,0.773,0.781,0.791,0.778,0.828,0.726,0.781,(4.9787)+(-0.0365)Asn+(0.0047)Gly+(-0.0086)Ala+(-0.0764)Cit+(0.0155)Pro+(-0.1278)Met;0.735,0.773,0.742,0.745,0.730,0.831,0.696,0.751,(-0.4091)+(0.0352)Ser+(-0.0091)Ala+(-0.0867)Cit+(-0.0044)Arg+(-0.0188)Lys+(0.0733)Phe;0.735,0.775,0.736,0.744,0.769,0.741,0.646,0.725,(0.9211)+(-0.0404)Asn+(0.0070)Gly+(-0.0770)Cit+(0.0074)Pro+(-0.2819)Met+(0.0988)Phe;0.735,0.778,0.771,0.768,0.763,0.800,0.777,0.777,(1.0494)+(0.0054)Gln+(-0.0107)Arg+(0.0014)Pro+(-0.2759)Met+(-0.0105)Lys+(0.0566)Ile;0.735,0.772,0.791,0.798,0.794,0.787,0.770,0.787,(2.6873)+(-0.0289)Asn+(-0.0055)Ala+(-0.0647)Cit+(-0.1863)Met+(-0.0029)Lys+(0.0957)Phe;0.735,0.785,0.742,0.748,0.788,0.748,0.629,0.728,(1.2505)+(0.0340)Thr+(-0.0778)Cit+(-0.0029)Arg+(-0.3559)Met+(-0.0111)Lys+(0.1083)Phe;0.735,0.778,0.747,0.746,0.719,0.803,0.769,0.759,(2.0238)+(0.0188)Thr+(-0.0078)Ala+(-0.0124)Tyr+(-0.2770)Met+(0.0006)Orn+(0.0663)Ile;0.735,0.784,0.719,0.739,0.713,0.817,0.609,0.720,(0.7184)+(0.0348)Ser+(-0.0003)Gln+(0.0119)Pro+(-0.0100)Val+(-0.2788)Met+
(0.0180)Orn;0.735,0.773,0.789,0.810,0.772,0.778,0.778,0.784,(-0.7419)+(0.0037)Gln+(-0.0051)Ala+(-0.2868)Met+(0.0141)Orn+(-0.0073)Leu+(0.0928)Phe;0.735,0.772,0.758,0.756,0.799,0.807,0.642,0.751,(4.4977)+(-0.0633)Asn+(0.0185)Thr+(-0.0991)Cit+(-0.1981)Met+(0.0426)Orn+(-0.0020)Le

u;0.735,0.778,0.801,0.830,0.777,0.793,0.781,0.795,(4.0270)+(-0.0888)Asn+(-0.0044)Ala+(-0.0566)Cit+(-0.0403)Tyr+(-0.0112)Val+(0.1039)Phe;0.735,0.776,0.689,0.702,0.722,0.789,0.511,0.681,(1.4676)+(0.0246)Ser+(-0.0011)Gln+(-0.0967)Cit+(-0.0150)Arg+(-0.0548)Tyr+(0.0440)Orn;0.735,0.780,0.742,0.745,0.740,0.722,0.750,0.739,(0.7248)+(-0.0091)Arg+(0.0046)Pro+(-0.0302)Tyr+(-0.2982)Met+(0.0372)Ile+(0.0773)Phe;0.735,0.777,0.750,0.744,0.792,0.802,0.642,0.745,(4.2260)+(-0.0584)Asn+(0.0188)Thr+(-0.0981)Cit+(0.0050)Pro+(-0.2260)Met+(0.0386)Orn;0.735,0.770,0.743,0.727,0.746,0.834,0.716,0.756,(1.0897)+(0.0251)Ser+(-0.0033)Gly+(-0.0115)Ala+(-0.1198)Cit+(0.0474)Orn+(-0.0011)Leu;0.735,0.775,0.820,0.830,0.797,0.842,0.827,0.824,(1.6387)+(-0.1118)Asn+(0.0078)Gln+(-0.0082)Ala+(-0.0873)Cit+(-0.0090)Lys+(0.0680)Phe;0.735,0.776,0.674,0.667,0.674,0.769,0.622,0.683,(-0.5106)+(0.0309)Ser+(-0.0150)Thr+(-0.1051)Cit+(-0.0612)Tyr+(0.0355)Orn+(0.0369)Ile;0.735,0.777,0.759,0.775,0.772,0.743,0.701,0.748,(0.8302)+(-0.0144)Arg+(0.0078)Pro+(-0.2971)Met+(0.0190)Orn+(-0.0157)Leu+(0.0941)Phe;0.735,0.779,0.713,0.742,0.715,0.679,0.652,0.697,(0.7933)+(-0.0582)Asn+(0.0278)Thr+(0.0072)Pro+(-0.0465)Tyr+(-0.3090)Met+(0.1053)Phe;0.735,0.779,0.758,0.787,0.721,0.829,0.709,0.762,(1.6510)+(0.0345)Ser+(-0.1430)Asn+(0.0018)Gln+(-0.0050)Ala+(-0.0278)Tyr+(0.0232)Orn;0.735,0.775,0.765,0.744,0.773,0.851,0.743,0.778,(4.2308)+(-0.0125)Ala+(-0.1272)Cit+(0.0036)Arg+(0.0102)Pro+(0.0610)Orn+(-0.0163)Lys;0.735,0.775,0.776,0.807,0.751,0.851,0.695,0.776,(2.9571)+(0.0377)Ser+(-0.1233)Asn+(-0.0032)Ala+(-0.0113)Arg+(-0.0079)Val+(0.0005)Lys;0.735,0.780,0.710,0.723,0.718,0.783,0.608,0.708,(0.0448)+(0.0421)Ser+(-0.0131)Arg+(0.0103)Pro+(-0.2816)Met+(-0.0035)Lys+(0.0062)Leu;0.735,0.775,0.760,0.766,0.734,0.789,0.777,0.767,(3.3336)+(-0.1666)Asn+(0.0025)Gly+(-0.0474)Val+(0.0357)Orn+(0.0511)Leu+(0.0624)Phe;0.735,0.768,0.776,0.805,0.778,0.750,0.714,0.762,(0.8748)+(0.0028)Gly+(-0.010

3)Arg+(-0.0145)Val+(-0.2786)Met+(0.0032)Lys+(0.1161)Phe;0.735,0.777,0.770,0.805,0.728,0.836,0.715,0.771,(1.6773)+(0.0340)Ser+(-0.1418)Asn+(0.0028)Gln+(0.0023)Thr+(-0.0045)Ala+(-0.0232)Tyr;0.735,0.775,0.781,0.797,0.781,0.768,0.750,0.774,(-0.7058)+(0.0044)Gln+(-0.3039)Met+(0.0157)Orn+(-0.0095)Lys+(-0.0071)Leu+(0.0932)Phe;0.735,0.774,0.778,0.805,0.765,0.836,0.689,0.774,(2.2117)+(0.0347)Ser+(-0.1529)Asn+(0.0053)Gln+(-0.0633)Cit+(-0.0070)Arg+(-0.0082)Val;0.735,0.773,0.715,0.699,0.704,0.810,0.711,0.731,(1.6411)+(0.0033)Gly+(-0.0150)Thr+(-0.1080)Cit+(0.0383)Orn+(0.1573)Ile+(-0.0930)Leu;0.735,0.778,0.767,0.771,0.750,0.835,0.741,0.774,(3.0431)+(0.0451)Ser+(-0.1444)Asn+(-0.0072)Gly+(-0.0132)Val+(0.0321)Orn+(-0.0061)Lys;0.735,0.776,0.798,0.809,0.802,0.851,0.723,0.796,(4.1403)+(-0.1333)Asn+(0.0060)Gln+(-0.0975)Cit+(-0.0068)Arg+(-0.0151)Val+(0.0566)Orn;0.735,0.775,0.772,0.785,0.717,0.804,0.830,0.784,(2.8543)+(-0.0669)Asn+(-0.0087)Ala+(-0.0461)Tyr+(-0.0115)Lys+(0.0466)Ile+(0.0568)Phe;0.735,0.782,0.742,0.750,0.731,0.827,0.679,0.747,(0.0945)+(0.0370)Ser+(-0.0043)Ala+(-0.2307)Met+(0.0199)Orn+(-0.0091)Lys+(0.0141)Leu;0.735,0.776,0.784,0.772,0.746,0.837,0.855,0.802,(2.6056)+(-0.0768)Asn+(-0.0104)Ala+(0.0159)Orn+(-0.0160)Lys+(0.0425)Ile+(0.0322)Phe;0.735,0.774,0.758,0.761,0.778,0.810,0.676,0.756,(5.4339)+(-0.0753)Asn+(-0.1094)Cit+(0.0065)Arg+(-0.0380)Tyr+(0.0615)Orn+(-0.0116)Lys;0.735,0.772,0.740,0.756,0.770,0.726,0.645,0.724,(0.8670)+(-0.0434)Asn+(0.0284)Thr+(-0.0188)Arg+(-0.3368)Met+(0.0066)Orn+(0.0919)Phe;0.735,0.777,0.769,0.771,0.788,0.838,0.671,0.767,(4.2615)+(0.0155)Thr+(-0.0069)Ala+(-0.1107)Cit+(-0.0127)Tyr+(-0.1744)Met+(0.0508)Orn;0.735,0.775,0.771,0.785,0.779,0.790,0.700,0.764,(0.9975)+(0.0058)Gly+(-0.0058)Ala+(-0.0785)Cit+(-0.2413)Met+(-0.0003)Leu+(0.1059)Phe;0.735,0.773,0.768,0.764,0.777,0.839,0.710,0.772,(4.7398)+(-0.0086)Ala+(-0.1198)Cit+(-0.0259)Tyr+(0.0652)Orn+(-0.0140)Lys+(0.0054)Leu;0.735,0.773,0.764,0

.748,0.780,0.852,0.709,0.772,(3.9116)+(0.0024)Gly+(-0.0103)Ala+(-0.1284)Cit+(0.0638)Orn+(-0.0167)Lys+(0.0063)Leu;0.735,0.775,0.749,0.756,0.720,0.808,0.748,0.758,(3.4444)+(-0.0751)Asn+(0.0029)Gly+(-0.0231)Arg+(0.0010)Lys+(0.1543)Ile+(-0.0879)Leu;0.735,0.781,0.753,0.790,0.764,0.841,0.570,0.741,(1.0709)+(0.0298)Ser+(0.0020)Gln+(0.0140)Thr+(-0.0186)Arg+(-0.0050)Val+(-0.2576)Met;0.735,0.777,0.726,0.710,0.756,0.791,0.659,0.729,(2.4187)+(0.0040)Gly+(-0.0987)Cit+(-0.0165)Tyr+(-0.2386)Met+(0.0322)Orn+(0.0503)Ile;0.735,0.784,0.701,0.666,0.690,0.794,0.749,0.725,(0.1399)+(0.0523)Ser+(-0.1307)Asn+(-0.0060)Gly+(0.0133)Orn+(-0.0210)Lys+(0.0392)Ile;0.735,0.782,0.719,0.738,0.732,0.788,0.593,0.712,(-0.5350)+(0.0364)Ser+(0.0003)Gln+(0.0084)Thr+(-0.0007)Tyr+(-0.3124)Met+(0.0103)Leu;0.735,0.782,0.780,0.795,0.754,0.846,0.747,0.785,(1.1513)+(0.0443)Ser+(-0.0070)Gly+(-0.0021)Ala+(0.0034)Tyr+(-0.0029)Val+(-0.2211)Met;0.735,0.779,0.727,0.725,0.743,0.805,0.643,0.729,(2.3715)+(0.0412)Ser+(-0.1257)Asn+(-0.0710)Cit+(0.0057)Pro+(-0.0102)Lys+(0.0006)Leu;0.735,0.776,0.756,0.792,0.739,0.718,0.722,0.743,(-0.8310)+(0.0043)Gln+(0.0095)Pro+(-0.0345)Tyr+(-0.3044)Met+(-0.0138)Leu+(0.1087)Phe;0.735,0.773,0.766,0.769,0.774,0.841,0.689,0.768,(4.6346)+(0.0012)Gly+(-0.0082)Ala+(-0.1208)Cit+(-0.0243)Tyr+(0.0660)Orn+(-0.0127)Lys;0.735,0.771,0.727,0.738,0.700,0.822,0.688,0.737,(1.7089)+(0.0267)Ser+(-0.0114)Ala+(-0.0875)Cit+(0.0150)Pro+(-0.0368)Tyr+(0.0029)Leu;0.734,0.782,0.750,0.764,0.733,0.826,0.693,0.754,(-0.4794)+(0.0378)Ser+(0.0007)Gln+(-0.0041)Ala+(0.0068)Tyr+(-0.2682)Met+(0.0129)Leu;0.734,0.779,0.743,0.753,0.731,0.727,0.755,0.742,(-1.5417)+(0.0016)Gly+(0.0039)Gln+(-0.0259)Tyr+(-0.3449)Met+(0.0429)Ile+(0.0783)Phe;0.734,0.773,0.769,0.773,0.774,0.841,0.698,0.771,(4.8890)+(-0.0074)Ala+(-0.1158)Cit+(-0.0247)Tyr+(-0.0039)Val+(0.0673)Orn+(-0.0109)Lys;0.734,0.771,0.791,0.803,0.780,0.836,0.750,0.792,(2.7812)+(0.0025)Gly+(0.0052)Gln+(-0.0089)Ala+(-0.

0841)Cit+(0.0152)Pro+(-0.1926)Met;0.734,0.786,0.742,0.748,0.786,0.747,0.631,0.728,(1.2135)+(0.0333)Thr+(-0.0796)Cit+(-0.3547)Met+(-0.0113)Lys+(-0.0010)Leu+(0.1091)Phe;0.734,0.778,0.729,0.728,0.746,0.804,0.642,0.730,(2.3982)+(0.0412)Ser+(-0.1250)Asn+(-0.0697)Cit+(-0.0017)Arg+(0.0059)Pro+(-0.0097)Lys;0.734,0.777,0.754,0.761,0.723,0.812,0.756,0.763,(3.5146)+(-0.0714)Asn+(0.0028)Gly+(-0.0222)Arg+(-0.0031)Pro+(0.1595)Ile+(-0.0880)Leu;0.734,0.776,0.801,0.815,0.799,0.788,0.779,0.795,(3.0103)+(-0.0455)Asn+(-0.0034)Ala+(-0.0545)Cit+(-0.0108)Val+(-0.1798)Met+(0.1117)Phe;0.734,0.774,0.783,0.809,0.715,0.804,0.840,0.792,(1.1687)+(-0.1104)Asn+(0.0045)Gln+(-0.0091)Ala+(-0.0534)Tyr+(0.0375)Ile+(0.0559)Phe;0.734,0.774,0.761,0.753,0.750,0.799,0.775,0.769,(0.9680)+(0.0004)Gly+(0.0043)Gln+(-0.2779)Met+(0.0075)Orn+(-0.0134)Lys+(0.0575)Ile;0.734,0.780,0.709,0.696,0.652,0.821,0.781,0.738,(-1.3454)+(0.0382)Ser+(-0.0016)Gln+(-0.0127)Thr+(-0.0119)Ala+(-0.0209)Arg+(0.0583)Ile;0.734,0.773,0.763,0.776,0.774,0.753,0.715,0.754,(0.5356)+(0.0015)Gly+(-0.2822)Met+(0.0195)Orn+(-0.0079)Lys+(-0.0080)Leu+(0.0935)Phe;0.734,0.769,0.768,0.785,0.777,0.747,0.717,0.756,(1.0063)+(-0.0538)Asn+(0.0025)Gly+(-0.2459)Met+(0.0186)Orn+(-0.0136)Leu+(0.0932)Phe;0.734,0.783,0.709,0.728,0.717,0.791,0.583,0.705,(0.2532)+(0.0390)Ser+(-0.0176)Arg+(0.0103)Pro+(-0.0089)Tyr+(-0.2697)Met+(0.0155)Orn;0.734,0.778,0.750,0.769,0.715,0.803,0.733,0.755,(3.5496)+(0.0475)Ser+(-0.1345)Asn+(-0.0079)Gly+(0.0114)Pro+(-0.0328)Tyr+(-0.0126)Val;0.734,0.771,0.734,0.750,0.705,0.829,0.683,0.742,(2.0802)+(0.0261)Ser+(-0.0105)Ala+(-0.0825)Cit+(0.0157)Pro+(-0.0338)Tyr+(-0.0034)Val;0.734,0.780,0.722,0.711,0.681,0.771,0.798,0.741,(0.5115)+(-0.0077)Pro+(0.0074)Orn+(-0.0176)Lys+(0.1548)Ile+(-0.0890)Leu+(0.0416)Phe;0.734,0.778,0.751,0.758,0.755,0.817,0.675,0.751,(1.4399)+(0.0378)Ser+(-0.1456)Asn+(0.0047)Gln+(-0.0788)Cit+(0.0051)Pro+(-0.0110)Lys;0.734,0.774,0.736,0.719,0.760,0.781,0.701,

0.740,(3.0348)+(-0.0918)Cit+(0.0024)Pro+(-0.0226)Tyr+(-0.2243)Met+(0.0340)Orn+(0.0441)Ile;0.734,0.778,0.754,0.755,0.711,0.814,0.797,0.769,(3.2352)+(-0.0896)Asn+(0.0019)Gly+(-0.0038)Pro+(-0.0044)Lys+(0.1494)Ile+(-0.0811)Leu;0.734,0.775,0.709,0.707,0.690,0.794,0.690,0.720,(0.2489)+(0.0040)Gly+(-0.0754)Cit+(-0.0236)Arg+(0.1657)Ile+(-0.1023)Leu+(0.0559)Phe;0.734,0.781,0.749,0.757,0.738,0.811,0.703,0.752,(0.7715)+(0.0458)Ser+(-0.0083)Gly+(-0.0081)Tyr+(-0.2246)Met+(0.0244)Orn+(-0.0072)Lys;0.734,0.778,0.778,0.795,0.759,0.834,0.731,0.780,(1.3502)+(0.0462)Ser+(-0.0071)Gly+(-0.0023)Ala+(-0.0109)Arg+(-0.2037)Met+(-0.0009)Lys;0.734,0.781,0.752,0.759,0.739,0.795,0.725,0.755,(-0.4171)+(0.0473)Ser+(-0.0075)Gly+(0.0014)Gln+(-0.0038)Tyr+(-0.2773)Met+(0.0090)Leu;0.734,0.780,0.749,0.751,0.730,0.804,0.742,0.757,(2.5784)+(0.0237)Thr+(-0.0075)Ala+(-0.0157)Arg+(-0.0133)Tyr+(-0.2659)Met+(0.0663)Ile;0.734,0.777,0.776,0.772,0.747,0.814,0.821,0.789,(2.9501)+(-0.0105)Asn+(-0.0076)Ala+(-0.0055)Arg+(-0.0069)Tyr+(-0.1985)Met+(0.0649)Ile;0.734,0.772,0.751,0.743,0.747,0.844,0.716,0.763,(1.6368)+(0.0245)Ser+(-0.0039)Gly+(-0.0098)Ala+(-0.1134)Cit+(-0.0070)Val+(0.0515)Orn;0.734,0.782,0.779,0.796,0.752,0.844,0.744,0.784,(1.2862)+(0.0446)Ser+(-0.0072)Gly+(-0.0020)Ala+(-0.0023)Val+(-0.2089)Met+(-0.0018)Lys;0.734,0.782,0.746,0.779,0.762,0.835,0.563,0.735,(1.4564)+(0.0323)Ser+(0.0141)Thr+(-0.0170)Arg+(0.0048)Tyr+(-0.0049)Val+(-0.2589)Met;0.734,0.779,0.700,0.711,0.703,0.778,0.610,0.701,(-0.6204)+(0.0399)Ser+(-0.0003)Gln+(0.0092)Pro+(-0.3147)Met+(0.0089)Orn+(0.0042)Leu;0.734,0.772,0.787,0.802,0.795,0.771,0.740,0.777,(-0.6674)+(0.0073)Gln+(-0.0775)Cit+(-0.2940)Met+(-0.0081)Lys+(-0.0028)Leu+(0.1022)Phe;0.734,0.782,0.744,0.757,0.729,0.828,0.683,0.749,(-0.3179)+(0.0365)Ser+(-0.0044)Ala+(0.0030)Tyr+(-0.2617)Met+(0.0153)Orn+(0.0104)Leu;0.734,0.781,0.724,0.714,0.713,0.770,0.743,0.735,(-0.4431)+(0.0553)Ser+(-0.1537)Asn+(-0.0058)Gly+(-0.0011)Thr+(-0.

0165)Lys+(0.0613)Phe;0.734,0.775,0.777,0.801,0.765,0.840,0.695,0.775,(2.2168)+(0.0348)Ser+(-0.1495)Asn+(0.0052)Gln+(-0.0690)Cit+(-0.0068)Val+(-0.0046)Lys;0.734,0.775,0.772,0.755,0.777,0.856,0.747,0.784,(3.5095)+(0.0023)Gln+(-0.0126)Ala+(-0.1268)Cit+(0.0098)Pro+(0.0591)Orn+(-0.0169)Lys;0.734,0.770,0.726,0

.713,0.733,0.767,0.717,0.732,(2.3738)+(-0.0229)Asn+(0.0012)Gly+(0.0206)Thr+(-0.2919)Met+(-0.0122)Lys+(0.0586)Ile;0.734,0.780,0.720,0.736,0.768,0.726,0.574,0.701,(-0.1044)+(0.0048)Gly+(0.0284)Thr+(-0.0877)Cit+(-0.3906)Met+(-0.0047)Leu+(0.1147)Phe;0.734,0.777,0.743,0.768,0.737,0.740,0.692,0.734,(0.0754)+(0.0003)Gly+(0.0262)Thr+(-0.0050)Ala+(-0.0298)Tyr+(-0.3221)Met+(0.1085)Phe;0.734,0.774,0.708,0.726,0.738,0.808,0.525,0.699,(1.6593)+(0.0224)Ser+(-0.0966)Cit+(-0.0161)Arg+(-0.0512)Tyr+(0.0463)Orn+(-0.0072)Leu;0.734,0.785,0.726,0.717,0.750,0.775,0.664,0.727,(2.9312)+(0.0275)Thr+(-0.0765)Cit+(-0.0051)Arg+(-0.0204)Tyr+(-0.3051)Met+(0.0591)Ile;0.734,0.783,0.743,0.770,0.740,0.840,0.605,0.739,(0.7286)+(0.0304)Ser+(0.0001)Gln+(0.0056)Thr+(-0.0069)Val+(-0.2597)Met+(0.0203)Orn;0.734,0.782,0.741,0.741,0.786,0.769,0.627,0.731,(0.3894)+(0.0048)Gly+(-0.0992)Cit+(-0.2814)Met+(0.0392)Orn+(-0.0109)Leu+(0.0986)Phe;0.734,0.779,0.741,0.778,0.744,0.699,0.664,0.721,(1.3269)+(-0.0696)Asn+(0.0293)Thr+(-0.0421)Tyr+(-0.2624)Met+(-0.0122)Leu+(0.1175)Phe;0.734,0.778,0.726,0.711,0.673,0.815,0.808,0.752,(-1.9223)+(0.0375)Ser+(-0.0052)Gly+(-0.0134)Ala+(-0.0293)Arg+(0.0456)Ile+(0.0225)Phe;0.734,0.777,0.700,0.725,0.681,0.734,0.650,0.698,(-0.7881)+(0.0425)Ser+(-0.0076)Gly+(-0.0621)Cit+(-0.0185)Arg+(-0.0803)Tyr+(0.0769)Phe;0.734,0.776,0.792,0.794,0.799,0.856,0.729,0.794,(3.2470)+(0.0036)Gln+(-0.0062)Ala+(-0.1073)Cit+(-0.0055)Val+(-0.1521)Met+(0.0544)Orn;0.734,0.779,0.830,0.845,0.786,0.859,0.861,0.838,(3.4150)+(-0.0916)Asn+(0.0071)Gln+(-0.0024)Ala+(-0.0399)Val+(-0.1641)Met+(0.0676)Leu;0.734,0.776,0.

703,0.694,0.645,0.815,0.766,0.730,(-1.5188)+(0.0300)Ser+(-0.0141)Ala+(-0.0298)Arg+(0.0064)Pro+(0.0006)Orn+(0.0469)Ile;0.734,0.772,0.776,0.807,0.772,0.753,0.718,0.763,(1.2499)+(0.0023)Gly+(-0.0082)Arg+(-0.0178)Tyr+(-0.0131)Val+(-0.2468)Met+(0.1195)Phe;0.734,0.782,0.757,0.770,0.731,0.843,0.719,0.766,(1.7478)+(0.0383)Ser+(-0.1265)Asn+(-0.0020)Thr+(-0.0057)Ala+(0.0259)Orn+(-0.0088)Lys;0.734,0.780,0.778,0.794,0.760,0.834,0.733,0.780,(1.2613)+(0.0462)Ser+(-0.0069)Gly+(-0.0024)Ala+(-0.0113)Arg+(0.0018)Tyr+(-0.2104)Met;0.734,0.779,0.715,0.732,0.720,0.785,0.608,0.711,(-0.2905)+(0.0406)Ser+(0.0010)Gln+(-0.0155)Arg+(0.0103)Pro+(-0.2933)Met+(0.0041)Leu;0.734,0.778,0.807,0.855,0.767,0.771,0.792,0.796,(1.8330)+(-0.1398)Asn+(0.0061)Gln+(-0.0540)Tyr+(-0.0171)Val+(0.0003)Lys+(0.0997)Phe;0.734,0.775,0.782,0.779,0.796,0.850,0.714,0.785,(4.5695)+(-0.0061)Ala+(-0.1043)Cit+(-0.0012)Arg+(-0.0061)Val+(-0.1280)Met+(0.0595)Orn;0.734,0.772,0.720,0.734,0.708,0.743,0.694,0.720,(-0.8354)+(0.0461)Ser+(-0.1801)Asn+(-0.0067)Thr+(0.0045)Pro+(-0.0208)Leu+(0.0728)Phe;0.734,0.779,0.790,0.822,0.779,0.767,0.745,0.778,(-0.4913)+(0.0069)Gln+(-0.0687)Cit+(-0.0237)Tyr+(-0.0110)Val+(-0.2708)Met+(0.1221)Phe;0.734,0.774,0.738,0.731,0.733,0.787,0.733,0.746,(0.9599)+(0.0037)Gln+(0.0178)Thr+(0.0001)Pro+(-0.3251)Met+(-0.0148)Lys+(0.0606)Ile;0.734,0.774,0.772,0.768,0.791,0.843,0.694,0.774,(3.9043)+(0.0025)Gly+(-0.0074)Ala+(-0.1132)Cit+(0.0003)Arg+(-0.1412)Met+(0.0555)Orn;0.734,0.771,0.792,0.830,0.776,0.743,0.761,0.777,(-0.0768)+(-0.0733)Asn+(0.0067)Gln+(-0.0333)Tyr+(-0.2116)Met+(-0.0118)Leu+(0.1052)Phe;0.734,0.771,0.729,0.714,0.737,0.774,0.722,0.737,(2.4941)+(-0.0219)Asn+(0.0203)Thr+(-0.2884)Met+(0.0051)Orn+(-0.0128)Lys+(0.0565)Ile;0.734,0.778,0.700,0.685,0.655,0.820,0.744,0.726,(-0.9738)+(0.0330)Ser+(-0.0024)Gln+(-0.0125)Ala+(-0.0269)Arg+(0.0049)Orn+(0.0529)Ile;0.734,0.775,0.762,0.763,0.716,0.832,0.806,0.779,(1.3370)+(0.0449)Ser+(-0.1479)Asn+(-0.00

62)Gly+(0.0020)Gln+(-0.0092)Ala+(0.0107)Pro;0.734,0.771,0.757,0.773,0.762,0.750,0.709,0.749,(1.3597)+(-0.0092)Arg+(-0.0297)Tyr+(-0.2313)Met+(0.0239)Orn+(-0.0083)Lys+(0.0914)Phe;0.734,0.770,0.791,0.817,0.773,0.769,0.773,0.783,(-0.9628)+(0.0013)Gly+(0.0043)Gln+(-0.0048)Ala+(-0.2938)Met+(-0.0052)Leu+(0.0974)Phe;0.734,0.782,0.745,0.756,0.729,0.721,0.767,0.743,(-1.3347)+(0.0041)Gln+(0.0040)Pro+(-0.0303)Tyr+(-0.3448)Met+(0.0376)Ile+(0.0792)Phe;0.734,0.773,0.753,0.777,0.780,0.735,0.649,0.735,(1.2327)+(-0.0496)Asn+(0.0302)Thr+(-0.0181)Arg+(-0.3157)Met+(-0.0119)Leu+(0.1058)Phe;0.734,0.781,0.757,0.781,0.743,0.822,0.673,0.755,(-0.0871)+(0.0370)Ser+(0.0016)Gln+(-0.0037)Ala+(-0.0122)Arg+(-0.2401)Met+(0.0122)Leu;0.734,0.778,0.706,0.726,0.709,0.785,0.593,0.703,(0.2136)+(0.0371)Ser+(0.0067)Thr+(0.0104)Pro+(-0.0055)Tyr+(-0.2919)Met+(-0.0048)Lys;0.734,0.774,0.793,0.827,0.783,0.755,0.755,0.780,(-0.2732)+(-0.0618)Asn+(0.0074)Gln+(-0.0137)Arg+(-0.0321)Tyr+(-0.2275)Met+(0.0960)Phe;0.734,0.776,0.727,0.719,0.682,0.776,0.807,0.746,(0.6539)+(-0.0007)Gly+(-0.0072)Pro+(-0.0164)Lys+(0.1564)Ile+(-0.0897)Leu+(0.0431)Phe;0.734,0.775,0.732,0.725,0.693,0.794,0.784,0.749,(-0.0514)+(0.0021)Gln+(-0.0123)Thr+(-0.0872)Cit+(0.1654)Ile+(-0.1017)Leu+(0.0483)Phe;0.734,0.781,0.737,0.717,0.787,0.808,0.630,0.736,(2.6393)+(-0.1051)Asn+(0.0056)Gly+(-0.1153)Cit+(0.0515)Orn+(-0.0178)Lys+(0.0518)Phe;0.734,0.780,0.751,0.758,0.739,0.760,0.751,0.752,(3.3306)+(-0.0648)Asn+(-0.0704)Cit+(-0.0575)Tyr+(-0.0136)Lys+(0.0383)Ile+(0.0638)Phe;0.734,0.779,0.728,0.737,0.760,0.751,0.619,0.717,(0.6488)+(0.0045)Gly+(-0.1005)Cit+(-0.0311)Tyr+(-0.2547)Met+(0.0394)Orn+(0.0973)Phe;0.734,0.778,0.731,0.747,0.722,0.759,0.687,0.729,(-0.9189)+(0.0417)Ser+(-0.1970)Asn+(0.0012)Gln+(0.0119)Orn+(-0.0212)Leu+(0.0699)Phe;0.734,0.775,0.740,0.748,0.707,0.822,0.730,0.751,(2.0556)+(0.0336)Ser+(-0.0054)Gly+(-0.0106)Ala+(-0.0775)Cit+(0.0151)Pro+(-0.0409)Tyr;0.734,0.771,0.784,0.801,0.777,

0.775,0.759,0.778,(0.7763)+(0.0025)Gly+(-0.0047)Ala+(-0.2556)Met+(-0.0048)Lys+(-0.0023)Leu+(0.0987)Phe;0.734,0.780,0.719,0.719,0.637,0.809,0.826,0.748,(-0.8308)+(0.0413)Ser+(-0.0073)Gly+(-0.0110)Thr+(-0.0101)Ala+(-0.0451)Tyr+(0.0571)Ile;0.734,0.774,0.731,0.708,0.759,0.834,0.658,0.740,(1.9151)+(0.0334)Ser+(-0.0064)Gly+(-0.1041)Cit+(-0.0078)Val+(0.0547)Orn+(-0.0227)Lys;0.734,0.771,0.739,0.752,0.760,0.726,0.670,0.727,(0.2150)+(0.0232)Thr+(-0.3492)Met+(0.0098)Orn+(-0.0111)Lys+(-0.0059)Leu+(0.1017)Phe;0.734,0.782,0.753,0.772,0.745,0.825,0.670,0.753,(0.1212)+(0.0395)Ser+(-0.0039)Ala+(-0.0108)Arg+(0.0075)Tyr+(-0.2477)Met+(0.0127)Leu;0.734,0.777,0.759,0.794,0.736,0.832,0.665,0.757,(2.6355)+(0.0360)Ser+(-0.1206)Asn+(0.0063)Thr+(-0.0042)Ala+(-0.0129)Arg+(-0.0219)Tyr;0.734,0.778,0.712,0.708,0.656,0.819,0.762,0.736,(-2.3103)+(0.0309)Ser+(-0.0134)Ala+(-0.0310)Arg+(0.0007)Orn+(0.0469)Ile+(0.0245)Phe;0.734,0.774,0.749,0.759,0.729,0.761,0.756,0.751,(-0.7444)+(0.0488)Ser+(-0.1934)Asn+(-0.0055)Gly+(0.0022)Gln+(-0.0198)Leu+(0.0686)Phe;0.734,0.773,0.775,0.788,0.766,0.819,0.726,0.775,(2.6636)+(-0.1240)Asn+(0.0053)Gly+(0.0137)Thr+(-0.0095)Ala+(-0.0895)Cit+(0.0706)Phe;0.734,0.773,0.703,0.747,0.688,0.751,0.584,0.692,(-0.7439)+(0.0312)Ser+(-0.0601)Cit+(-0.0184)Arg+(-0.0663)Tyr+(-0.0121)Val+(0.0976)Phe;0.734,0.770,0.740,0.720,0.708,0.825,0.799,0.763,(1.5355)+(0.0045)Gly+(-0.0021)Thr+(-0.0161)Ala+(-0.1044)Cit+(0.0081)Pro+(0.0575)Ile;0.734,0.768,0.724,0.721,0.694,0.811,0.735,0.740,(1.1176)+(0.0015)Gly+(0.0014)Gln+(-0.0911)Cit+(-0.0070)Pro+(0.1692)Ile+(-0.0913)Leu;0.734,0.768,0.742,0.723,0.707,0.826,0.802,0.765,(1.1016)+(0.0038)Gly+(0.0011)Gln+(-0.0164)Ala+(-0.1070)Cit+(0.0075)Pro+(0.0568)Ile;0.734,0.780,0.780,0.819,0.754,0.755,0.752,0.770,(1.0649)+(-0.1304)Asn+(0.0081)Gln+(-0.0826)Cit+(0.0035)Pro+(-0.0677)Tyr+(0.0774)Phe;0.734,0.771,0.795,0.823,0.791,0.748,0.760,0.780,(-0.6101)+(-0.0696)Asn+(0.0019)Gly+(0.0061)Gln+(-0.2675)Met

+(-0.0112)Leu+(0.0968)Phe;0.734,0.785,0.712,0.692,0.702,0.787,0.733,0.728,(0.3844)+(0.0531)Ser+(-0.1190)Asn+(-0.0055)Gly+(-0.0123)Arg+(-0.0174)Lys+(0.0431)Ile;0.734,0.781,0.703,0.720,0.706,0.785,0.594,0.701,(-0.3485)+(0.0379)Ser+(-0.0003)Gln+(0.0033)Thr+(0.0095)Pro+(-0.3151)Met+(0.0089)Orn;0.734,0.774,0.758,0.762,0.792,0.827,0.626,0.752,(4.0213)+(0.0001)Gly+(0.0148)Thr+(-0.0961)Cit+(-0.0090)Val+(-0.2230)Met+(0.0483)Orn;0.734,0.774,0.733,0.744,0.752,0.698,0.688,0.720,(0.3575)+(-0.0503)Asn+(0.0233)Thr+(0.0052)Pro+(-0.3576)Met+(0.0006)Orn+(0.0897)Phe;0.734,0.770,0.767,0.755,0.782,0.852,0.707,0.774,(4.0198)+(0.0020)Gly+(-0.0098)Ala+(-0.1296)Cit+(0.0039)Arg+(0.0650)Orn+(-0.0159)Lys;0.734,0.779,0.773,0.801,0.752,0.860,0.679,0.773,(0.3797)+(0.0335)Ser+(0.0013)Gln+(-0.0027)Ala+(0.0099)Tyr+(-0.0030)Val+(-0.2384)Met;0.734,0.777,0.790,0.803,0.795,0.847,0.708,0.788,(4.0025)+(-0.1406)Asn+(0.0018)Gly+(0.0054)Gln+(-0.1037)Cit+(-0.0148)Val+(0.0565)Orn;0.734,0.774,0.744,0.758,0.763,0.790,0.632,0.736,(4.6890)+(-0.0959)Asn+(0.0028)Gly+(-0.1061)Cit+(0.0002)Arg+(-0.0418)Tyr+(0.0543)Orn;0.734,0.779,0.725,0.758,0.675,0.754,0.721,0.727,(-0.4302)+(0.0442)Ser+(-0.0103)Gly+(-0.0688)Tyr+(-0.0108)Val+(-0.0161)Lys+(0.0935)Phe;0.734,0.777,0.760,0.773,0.760,0.825,0.679,0.759,(1.4500)+(0.0371)Ser+(-0.1437)Asn+(0.0051)Gln+(-0.0785)Cit+(-0.0107)Lys+(0.0035)Leu;0.734,0.774,0.757,0.754,0.801,0.806,0.637,0.750,(4.4493)+(-0.0604)Asn+(0.0195)Thr+(-0.0973)Cit+(-0.0030)Arg+(-0.2042)Met+(0.0415)Orn;0.734,0.775,0.743,0.758,0.763,0.789,0.627,0.734,(5.1173)+(-0.1035)Asn+(0.0122)Thr+(-0.1011)Cit+(-0.0041)Arg+(-0.0499)Tyr+(0.0507)Orn;0.734,0.771,0.740,0.721,0.710,0.824,0.793,0.762,(1.5903)+(0.0044)Gly+(-0.0160)Ala+(-0.1017)Cit+(-0.0041)Arg+(0.0080)Pro+(0.0571)Ile;0.734,0.781,0.771,0.780,0.762,0.776,0.766,0.771,(2.2486)+(-0.0086)Ala+(-0.0664)Cit+(0.0139)Pro+(-0.0234)Tyr+(-0.2166)Met+(0.0969)Phe;0.734,0.776,0.723,0.738,0.753,0.712,0.631,0.709,(0.04

32)+(0.0268)Thr+(-0.0214)Arg+(0.0059)Pro+(-0.3958)Met+(0.0033)Orn+(0.0949)Phe;0.734,0.782,0.729,0.752,0.728,0.812,0.608,0.725,(1.2474)+(0.0387)Ser+(-0.0152)Arg+(0.0134)Pro+(-0.0002)Tyr+(-0.0081)Val+(-0.2530)Met;0.734,0.776,0.758,0.754,0.781,0.827,0.668,0.758,(4.4136)+(-0.0917)Cit+(0.0083)Pro+(-0.0106)Val+(-0.1860)Met+(0.0537)Orn+(-0.0041)Lys;0.734,0.774,0.752,0.773,0.734,0.803,0.701,0.753,(2.0819)+(-0.0079)Ala+(-0.1088)Cit+(-0.0543)Tyr+(-0.0119)Val+(0.0575)Orn+(0.0825)Phe;0.734,0.783,0.726,0.748,0.747,0.800,0.573,0.717,(-0.0942)+(0.0350)Ser+(0.0012)Gln+(0.0126)Thr+(-0.0173)Arg+(-0.3015)Met+(0.0093)Leu;0.734,0.779,0.741,0.782,0.670,0.780,0.757,0.747,(-0.6194)+(0.0363)Ser+(-0.0091)Gly+(-0.0055)Ala+(-0.0662)Tyr+(-0.0118)Val+(0.0879)Phe;0.734,0.778,0.768,0.785,0.753,0.819,0.717,0.769,(3.7763)+(0.0449)Ser+(-0.1203)Asn+(-0.0056)Gly+(-0.0513)Cit+(-0.0209)Tyr+(-0.0062)Val;0.734,0.777,0.758,0.763,0.798,0.828,0.614,0.750,(
4.2682)+(0.0167)Thr+(-0.0904)Cit+(-0.0083)Arg+(-0.0093)Val+(-0.2173)Met+(0.0487)Orn;0.734,0.772,0.786,0.800,0.796,0.773,0.741,0.777,(-0.6719)+(0.0073)Gln+(-0.0784)Cit+(0.0006)Arg+(-0.2966)Met+(-0.0090)Lys+(0.1002)Phe;0.734,0.779,0.715,0.722,0.718,0.765,0.657,0.715,(-1.1340)+(0.0479)Ser+(-0.1677)Asn+(-0.0057)Thr+(-0.0204)Arg+(0.0120)Orn+(0.0527)Phe;0.734,0.776,0.752,0.771,0.752,0.724,0.727,0.743,(1.3489)+(-0.0061)Arg+(0.0086)Pro+(-0.0313)Tyr+(-0.2647)Met+(-0.0057)Lys+(0.0969)Phe;0.734,0.772,0.789,0.820,0.773,0.766,0.758,0.779,(1.7619)+(-0.0025)Ala+(-0.0071)Arg+(-0.0182)Tyr+(-0.0117)Val+(-0.2208)Met+(0.1162)Phe;0.733,0.783,0.726,0.751,0.744,0.810,0.564,0.717,(0.6451)+(0.0336)Ser+(0.0094)Thr+(-0.0186)Arg+(-0.0034)Tyr+(-0.2638)Met+(0.0175)Orn;0.733,0.781,0.748,0.753,0.784,0.763,0.652,0.738,(-1.2289)+(0.0040)Gly+(0.0046)Gln+(-0.1021)Cit+(-0.3278)Met+(0.0289)Orn+(0.0933)Phe;0.733,0.777,0.721,0.742,0.724,0.794,0.605,0.716,(0.0222)+(0.0395)Ser+(0.0013)Gln+(-0.

0153)Arg+(0.0109)Pro+(-0.2770)Met+(-0.0019)Lys;0.733,0.771,0.730,0.721,0.740,0.767,0.703,0.733,(2.7453)+(-0.0153)Asn+(0.0244)Thr+(-0.0127)Arg+(-0.2930)Met+(-0.0106)Lys+(0.0578)Ile;0.733,0.780,0.739,0.762,0.690,0.826,0.721,0.750,(2.2236)+(0.0377)Ser+(-0.1272)Asn+(-0.0079)Ala+(0.0134)Pro+(-0.0294)Tyr+(-0.0002)Leu;0.733,0.778,0.788,0.825,0.744,0.858,0.731,0.789,(2.2452)+(0.0334)Ser+(-0.1435)Asn+(0.0034)Gln+(-0.0030)Ala+(-0.0147)Tyr+(-0.0075)Val;0.733,0.775,0.742,0.734,0.714,0.828,0.761,0.759,(3.1181)+(-0.0008)Thr+(-0.0802)Cit+(-0.0056)Pro+(-0.0107)Lys+(0.1643)Ile+(-0.0830)Leu;0.733,0.768,0.761,0.747,0.798,0.815,0.685,0.761,(4.6724)+(-0.0424)Asn+(-0.0966)Cit+(0.0049)Pro+(-0.1502)Met+(0.0510)Orn+(-0.0081)Lys;0.733,0.783,0.748,0.757,0.737,0.828,0.690,0.753,(-0.0496)+(0.0397)Ser+(-0.0040)Ala+(0.0084)Tyr+(-0.2474)Met+(-0.0066)Lys+(0.0163)Leu;0.733,0.780,0.765,0.797,0.739,0.836,0.684,0.764,(2.4694)+(0.0385)Ser+(-0.1125)Asn+(-0.0040)Ala+(-0.0099)Arg+(-0.0169)Tyr+(-0.0021)Lys;0.733,0.775,0.763,0.770,0.780,0.738,0.729,0.754,(1.1605)+(-0.0305)Asn+(-0.0107)Arg+(0.0059)Pro+(-0.2852)Met+(0.0145)Orn+(0.0787)Phe;0.733,0.770,0.751,0.753,0.742,0.826,0.709,0.758,(3.9872)+(-0.0119)Ala+(-0.1134)Cit+(-0.0047)Arg+(0.0122)Pro+(-0.0408)Tyr+(0.0541)Orn;0.733,0.782,0.723,0.717,0.770,0.755,0.618,0.715,(0.1120)+(0.0057)Gly+(-0.0975)Cit+(0.0058)Pro+(-0.3228)Met+(0.0309)Orn+(0.0900)Phe;0.733,0.772,0.760,0.759,0.760,0.804,0.728,0.763,(4.3704)+(0.0032)Gly+(-0.0514)Cit+(0.0108)Pro+(-0.0339)Val+(-0.2442)Met+(0.0552)Leu;0.733,0.782,0.777,0.791,0.752,0.842,0.746,0.783,(1.0251)+(0.0454)Ser+(-0.0070)Gly+(-0.0024)Ala+(0.0025)Tyr+(-0.2162)Met+(-0.0029)Lys;0.733,0.781,0.773,0.804,0.761,0.847,0.664,0.769,(0.3403)+(0.0347)Ser+(0.0020)Gln+(-0.0030)Ala+(-0.0134)Arg+(0.0082)Tyr+(-0.2280)Met;0.733,0.776,0.700,0.754,0.670,0.762,0.576,0.691,(-0.7648)+(0.0322)Ser+(-0.0012)Gln+(-0.0275)Arg+(-0.0631)Tyr+(-0.0147)Val+(0.0956)Phe;0.733,0.782,0.718,0.732,0

.770,0.730,0.565,0.699,(-0.0215)+(0.0048)Gly+(0.0307)Thr+(-0.0840)Cit+(-0.0075)Arg+(-0.3956)Met+(0.1111)Phe;0.733,0.778,0.736,0.740,0.739,0.732,0.719,0.732,(0.1009)+(0.0034)Gly+(-0.0106)Arg+(-0.0237)Tyr+(-0.3074)Met+(0.0442)Ile+(0.0786)Phe;0.733,0.774,0.732,0.735,0.719,0.780,0.720,0.738,(1.2800)+(0.0036)Gln+(0.0195)Thr+(-0.0183)Tyr+(-0.2998)Met+(-0.0145)Lys+(0.0621)Ile;0.733,0.770,0.770,0.784,0.778,0.729,0.745,0.759,(1.4623)+(-0.0351)Asn+(0.0081)Pro+(-0.2684)Met+(-0.0032)Lys+(-0.0123)Leu+(0.0962)Phe;0.733,0.771,0.776,0.791,0.767,0.775,0.752,0.771,(0.3329)+(0.0018)Gly+(-0.0052)Ala+(-0.2665)Met+(0.0179)Orn+(-0.0074)Leu+(0.0938)Phe;0.733,0.774,0.795,0.808,0.786,0.808,0.768,0.792,(3.9346)+(-0.1373)Asn+(0.0198)Thr+(-0.0066)Ala+(-0.0678)Cit+(-0.0146)Val+(0.0895)Phe;0.733,0.782,0.731,0.756,0.748,0.813,0.569,0.722,(0.3347)+(0.0330)Ser+(0.0009)Gln+(0.0091)Thr+(-0.0191)Arg+(-0.2726)Met+(0.0162)Orn;0.733,0.777,0.752,0.752,0.777,0.824,0.646,0.750,(4.0070)+(0.0015)Gly+(-0.0922)Cit+(0.0088)Pro+(-0.0113)Val+(-0.2024)Met+(0.0506)Orn;0.733,0.774,0.751,0.777,0.745,0.712,0.721,0.739,(1.1481)+(0.0098)Pro+(-0.0334)Tyr+(-0.2629)Met+(-0.0041)Lys+(-0.0115)Leu+(0.1069)Phe;0.733,0.777,0.723,0.728,0.718,0.712,0.726,0.721,(-0.2590)+(0.0029)Gly+(0.0044)Pro+(-0.0284)Tyr+(-0.3306)Met+(0.0391)Ile+(0.0802)Phe;0.733,0.777,0.730,0.769,0.741,0.714,0.614,0.709,(-1.1877)+(0.0048)Gln+(0.0313)Thr+(-0.0271)Arg+(-0.0373)Tyr+(-0.3648)Met+(0.1129)Phe;0.733,0.774,0.764,0.779,0.770,0.733,0.732,0.754,(1.1963)+(-0.0453)Asn+(0.0072)Pro+(-0.2672)Met+(0.0169)Orn+(-0.0165)Leu+(0.0919)Phe;0.733,0.769,0.759,0.744,0.771,0.789,0.754,0.764,(3.9353)+(-0.0090)Asn+(-0.0637)Cit+(-0.0112)Tyr+(-0.1964)Met+(-0.0081)Lys+(0.0595)Ile;0.733,0.782,0.753,0.782,0.756,0.844,0.607,0.747,(0.9898)+(0.0317)Ser+(0.0012)Gln+(-0.0180)Arg+(-0.0074)Val+(-0.2205)Met+(0.0269)Orn;0.733,0.781,0.708,0.722,0.702,0.699,0.690,0.703,(-1.7292)+(0.0029)Gln+(0.0231)Thr+(-0.0359)Tyr+(-0.4017

)Met+(0.0417)Ile+(0.0870)Phe;0.733,0.780,0.747,0.776,0.743,0.739,0.68
7,0.736,(0.1967)+(0.0264)Thr+(-0.0046)Ala+(-0.0308)Tyr+(-0.3145)Met+(
-0.0062)Leu+(0.1142)Phe;0.733,0.777,0.743,0.769,0.735,0.742,0.693,0.7
35,(0.0723)+(0.0246)Thr+(-0.0052)Ala+(-0.0308)Tyr+(-0.3162)Met+(0.007
1)Orn+(0.1056)Phe;0.733,0.776,0.718,0.741,0.720,0.792,0.601,0.713,(0.
0490)+(0.0393)Ser+(0.0012)Gln+(-0.0160)Arg+(0.0111)Pro+(-0.0050)Tyr+(
-0.2753)Met;0.733,0.775,0.721,0.744,0.729,0.719,0.643,0.709,(0.4970)+
(0.0275)Thr+(-0.0380)Tyr+(-0.3155)Met+(0.0109)Orn+(-0.0134)Lys+(0.110
3)Phe;0.733,0.771,0.784,0.801,0.780,0.779,0.748,0.777,(0.9077)+(0.002
8)Gly+(-0.0049)Ala+(-0.0075)Arg+(-0.2503)Met+(-0.0037)Lys+(0.0972)Phe
;0.733,0.783,0.719,0.740,0.711,0.814,0.609,0.719,(0.7098)+(0.0342)Ser
+(0.0120)Pro+(-0.0038)Tyr+(-0.0098)Val+(-0.2742)Met+(0.0180)Orn;0.733
,0.784,0.735,0.739,0.733,0.783,0.692,0.737,(4.8598)+(-0.0815)Asn+(0.0
205)Thr+(-0.0771)Cit+(-0.0507)Tyr+(-0.0151)Lys+(0.0488)Ile;0.733,0.77
7,0.710,0.728,0.712,0.787,0.601,0.707,(-0.0129)+(0.0373)Ser+(0.0004)G
ln+(0.0062)Thr+(0.0101)Pro+(-0.3003)Met+(-0.0051)Lys;0.733,0.777,0.75
3,0.775,0.766,0.727,0.686,0.739,(0.4350)+(0.0031)Gly+(-0.0117)Arg+(0.
0088)Pro+(-0.3116)Met+(-0.0128)Leu+(0.1017)Phe;0.733,0.776,0.714,0.74
7,0.681,0.736,0.681,0.711,(-0.4306)+(0.0376)Ser+(-0.0076)Gly+(-0.0663
)Cit+(-0.0763)Tyr+(-0.0117)Val+(0.0916)Phe;0.733,0.782,0.716,0.733,0.
725,0.793,0.597,0.712,(-0.5372)+(0.0364)Ser+(-0.0002)Gln+(0.0060)Thr+
(-0.3072)Met+(0.0104)Orn+(0.0084)Leu;0.733,0.768,0.770,0.788,0.750,0.
820,0.726,0.771,(5.8270)+(-0.0872)Asn+(0.0171)Thr+(-0.0095)Ala+(-0.07
54)Cit+(0.0134)Pro+(-0.0346)Tyr;0.733,0.774,0.764,0.744,0.776,0.853,0
.731,0.776,(4.2412)+(0.0034)Thr+(-0.0126)Ala+(-0.1257)Cit+(0.0100)Pro
+(0.0600)Orn+(-0.0165)Lys;0.733,0.772,0.706,0.716,0.728,0.797,0.567,0
.702,(1.0268)+(0.0275)Ser+(-0.0100)Thr+(-0.0989)Cit+(-0.0120)Arg+(-0.
0496)Tyr+(0.0463)Orn;0.733,0.778,0.776,0.795,0.746,0.826,0.753,0.780,

(2.8378)+(0.0475)Ser+(-0.1105)Asn+(-0.0070)Gly+(-0.0038)Ala+(-0.0104)Arg+(-0.0239)Tyr;0.733,0.774,0.731,0.735,0.701,0.787,0.745,0.742,(0.8622)+(-0.0374)Arg+(-0.0072)Pro+(0.0136)Orn+(0.1714)Ile+(-0.1068)Leu+(0.0464)Phe;0.733,0.778,0.725,0.752,0.753,0.712,0.604,0.705,(0.8811)+(0.0331)Thr+(-0.0782)Cit+(-0.0374)Tyr+(-0.3387)Met+(-0.0056)Leu+(0.1213)Phe;0.733,0.777,0.750,0.750,0.729,0.805,0.752,0.759,(3.6817)+(-0.0773)Asn+(0.0025)Thr+(-0.0261)Arg+(0.0192)Orn+(0.1488)Ile+(-0.0889)Leu;0.733,0.776,0.756,0.761,0.729,0.807,0.764,0.765,(3.8402)+(-0.0755)Asn+(0.0052)Thr+(-0.0237)Arg+(-0.0003)Lys+(0.1505)Ile+(-0.0868)Leu;0.733,0.775,0.727,0.735,0.732,0.799,0.645,0.728,(1.8382)+(0.0306)Ser+(-0.0083)Gly+(-0.1003)Cit+(-0.0615)Tyr+(0.0461)Orn+(-0.0076)Leu;0.733,0.775,0.748,0.760,0.771,0.759,0.663,0.738,(1.5486)+(-0.0936)Cit+(-0.0376)Tyr+(-0.2096)Met+(0.0460)Orn+(-0.0133)Leu+(0.1018)Phe;0.733,0.774,0.777,0.782,0.779,0.851,0.710,0.781,(3.7578)+(0.0033)Gln+(-0.0084)Ala+(-0.1222)Cit+(-0.0278)Tyr+(0.0636)Orn+(-0.0144)Lys;0.733,0.774,0.772,0.771,0.788,0.839,0.693,0.773,(4.0760)+(0.0022)Gly+(-0.0072)Ala+(-0.1125)Cit+(-0.0085)Tyr+(-0.1283)Met+(0.0566)Orn;0.733,0.773,0.706,0.708,0.714,0.782,0.633,0.709,(1.6483)+(0.0327)Ser+(-0.0078)Gly+(-0.0012)Gln+(-0.0995)Cit+(-0.0648)Tyr+(0.0435)Orn;0.733,0.772,0.725,0.728,0.694,0.785,0.737,0.736,(0.9176)+(0.0014)Gly+(-0.0328)Arg+(-0.0066)Lys+(0.1591)Ile+(-0.0987)Leu+(0.0481)Phe;0.733,0.771,0.756,0.785,0.748,0.711,0.728,0.743,(1.8439)+(-0.0438)Asn+(0.0096)Pro+(-0.0376)Tyr+(-0.2163)Met+(-0.0148)Leu+(0.1064)Phe;0.733,0.770,0.765,0.754,0.783,0.854,0.696,0.772,(4.0578)+(0.0017)Gly+(0.0043)Thr+(-0.0099)Ala+(-0.1276)Cit+(0.0637)Orn+(-0.0162)Lys;0.733,0.778,0.759,0.758,0.716,0.813,0.812,0.775,(3.4703)+(-0.0857)Asn+(0.0011)Thr+(-0.0038)Pro+(-0.0047)Lys+(0.1482)Ile+(-0.0810)Leu;0.733,0.777,0.789,0.784,0.798,0.841,0.743,0.792,(2.7019)+(0.0040)Gln+(-0.0077)Ala+(-0.1120)Cit+(-0.1692)Met+(0.0489)Orn+(

0.0048)Leu;0.733,0.775,0.729,0.735,0.716,0.743,0.731,0.731,(-0.3414)+(0.0502)Ser+(-0.1862)Asn+(-0.0052)Gly+(0.0038)Pro+(-0.0218)Leu+(0.0694)Phe;0.733,0.773,0.801,0.811,0.748,0.866,0.837,0.815,(4.0436)+(-0.1514)Asn+(0.0044)Gln+(-0.0048)Ala+(-0.0445)Val+(0.0367)Orn+(0.0612)Leu;0.733,0.777,0.763,0.779,0.763,0.828,0.676,0.762,(1.6464)+(0.0361)Ser+(-0.1456)Asn+(0.0050)Gln+(0.0014)Thr+(-0.0774)Cit+(-0.0097)Lys;0.733,0.772,0.815,0.827,0.789,0.832,0.827,0.819,(1.4024)+(-0.1239)Asn+(0.0073)Gln+(-0.0089)Ala+(-0.0874)Cit+(-0.0009)Arg+(0.0624)Phe;0.733,0.775,0.722,0.735,0.732,0.816,0.602,0.721,(1.6942)+(0.0235)Ser+(-0.0111)Thr+(-0.1038)Cit+(-0.0425)Tyr+(-0.0090)Val+(0.0538)Orn;0.733,0.771,0.761,0.775,0.777,0.802,0.661,0.754,(5.3892)+(-0.0862)Asn+(-0.1013)Cit+(-0.0007)Arg+(-0.0397)Tyr+(0.0583)Orn+(-0.0087)Leu;0.733,0.776,0.774,0.780,0.768,0.825,0.733,0.776,(1.6702)+(0.0428)Ser+(-0.1417)Asn+(-0.0051)Gly+(0.0054)Gln+(-0.0710)Cit+(-0.0104)Lys;0.733,0.772,0.742,0.744,0.727,0.830,0.703,0.751,(-0.4316)+(0.0344)Ser+(0.0002)Gln+(-0.0092)Ala+(-0.0904)Cit+(-0.0198)Lys+(0.0728)Phe;0.733,0.772,0.768,0.766,0.783,0.832,0.695,0.769,(5.7098)+(-0.1049)Asn+(-0.0961)Cit+(0.0051)Pro+(-0.0153)Val+(0.0614)Orn+(-0.0047)Lys;0.733,0.771,0.768,0.772,0.748,0.799,0.775,0.773,(5.1316)+(-0.0667)Asn+(0.0024)Gly+(0.0108)Pro+(-0.0412)Val+(-0.1918)Met+(0.0634)Leu;0.733,0.779,0.700,0.712,0.609,0.792,0.789,0.726,(-2.4609)+(0.0333)Ser+(-0.0138)Thr+(-0.0110)Ala+(-0.0526)Tyr+(0.0503)Ile+(0.0425)Phe;0.733,0.783,0.721,0.741,0.746,0.796,0.565,0.712,(0.2206)+(0.0363)Ser+(0.013

0)Thr+(-0.0162)Arg+(-0.0010)Tyr+(-0.2972)Met+(0.0099)Leu;0.733,0.777,0.714,0.730,0.714,0.746,0.646,0.709,(3.8126)+(-0.1082)Asn+(0.0035)Gly+(0.0140)Thr+(-0.0806)Cit+(-0.0518)Tyr+(0.0420)Ile;0.733,0.777,0.702,0.716,0.701,0.775,0.617,0.702,(-0.5243)+(0.0401)Ser+(0.0001)Gln+(0.0099)Pro+(-0.0057)Tyr+(-0.3054)Met+(0.0055)Leu;0.733,0.768,0.763,0.762,

0.786,0.744,0.730,0.755,(2.1351)+(-0.0244)Asn+(-0.0609)Cit+(0.0069)Pro+(-0.2571)Met+(-0.0055)Lys+(0.0906)Phe;0.733,0.780,0.701,0.721,0.701,0.781,0.591,0.699,(-0.2557)+(0.0367)Ser+(0.0036)Thr+(0.0098)Pro+(-0.0084)Tyr+(-0.3040)Met+(0.0095)Orn;0.733,0.776,0.786,0.799,0.796,0.822,0.704,0.780,(3.1469)+(-0.0848)Asn+(0.0065)Gln+(-0.1034)Cit+(-0.0255)Tyr+(-0.1166)Met+(0.0465)Orn;0.733,0.774,0.640,0.632,0.655,0.746,0.553,0.646,(0.3616)+(0.0275)Ser+(-0.0028)Gln+(-0.1041)Cit+(-0.0689)Tyr+(0.0329)Orn+(0.0369)Ile;0.733,0.773,0.753,0.765,0.782,0.756,0.660,0.741,(1.4559)+(-0.0402)Asn+(0.0064)Gly+(-0.0743)Cit+(-0.2364)Met+(-0.0044)Lys+(0.1024)Phe;0.733,0.779,0.689,0.645,0.735,0.803,0.632,0.704,(-0.7392)+(0.0391)Ser+(-0.0047)Gly+(-0.1173)Cit+(0.0475)Orn+(-0.0337)Lys+(0.0495)Phe;0.733,0.776,0.785,0.798,0.774,0.837,0.738,0.787,(2.8554)+(-0.0902)Asn+(0.0060)Gly+(-0.0081)Ala+(-0.0836)Cit+(-0.0066)Lys+(0.0767)Phe;0.733,0.775,0.740,0.726,0.759,0.792,0.700,0.744,(3.0322)+(0.0050)Gly+(-0.0743)Cit+(-0.0052)Tyr+(-0.2248)Met+(-0.0092)Lys+(0.0648)Ile;0.733,0.781,0.750,0.763,0.733,0.826,0.694,0.754,(-0.1628)+(0.0376)Ser+(0.0011)Gln+(-0.0038)Ala+(-0.2385)Met+(-0.0068)Lys+(0.0161)Leu;0.733,0.773,0.780,0.805,0.779,0.763,0.727,0.768,(-0.5280)+(0.0076)Gln+(-0.0776)Cit+(-0.0264)Tyr+(-0.2623)Met+(-0.0085)Lys+(0.1085)Phe;0.733,0.778,0.733,0.775,0.731,0.699,0.652,0.714,(-1.2613)+(0.0033)Gln+(0.0238)Thr+(-0.0353)Tyr+(-0.3557)Met+(-0.0099)Leu+(0.1161)Phe;0.733,0.776,0.735,0.696,0.777,0.813,0.696,0.746,(4.0229)+(-0.0888)Asn+(0.0091)Thr+(-0.1098)Cit+(0.0457)Orn+(-0.0215)Lys+(0.0312)Ile;0.733,0.782,0.737,0.761,0.680,0.790,0.752,0.746,(-0.5230)+(0.0440)Ser+(-0.0092)Gly+(-0.0059)Ala+(-0.0597)Tyr+(-0.0179)Lys+(0.0820)Phe;0.733,0.773,0.773,0.799,0.740,0.857,0.708,0.776,(2.9165)+(0.0355)Ser+(-0.1354)Asn+(0.0044)Thr+(-0.0036)Ala+(-0.0079)Val+(-0.0025)Lys;0.733,0.781,0.753,0.758,0.739,0.807,0.728,0.758,(-0.3035)+(0.0480)Ser+(-0.0075)Gly+(0.0019)Gln+

(-0.2626)Met+(-0.0074)Lys+(0.0122)Leu;0.733,0.779,0.698,0.692,0.694,0.755,0.680,0.705,(-1.6234)+(0.0499)Ser+(-0.1646)Asn+(-0.0064)Thr+(-0.0201)Arg+(0.0241)Ile+(0.0427)Phe;0.733,0.777,0.750,0.745,0.784,0.764,0.680,0.743,(1.1560)+(-0.0876)Cit+(0.0063)Pro+(-0.2834)Met+(0.0375)Orn+(-0.0143)Leu+(0.0907)Phe;0.733,0.774,0.753,0.756,0.714,0.823,0.779,0.768,(2.9783)+(0.0091)Thr+(-0.0120)Ala+(-0.0875)Cit+(-0.0036)Arg+(-0.0403)Tyr+(0.0621)Ile;0.733,0.774,0.786,0.785,0.799,0.846,0.720,0.788,(2.8138)+(0.0014)Gly+(0.0036)Gln+(-0.0073)Ala+(-0.1131)Cit+(-0.1612)Met+(0.0510)Orn;0.733,0.776,0.677,0.692,0.677,0.745,0.589,0.676,(-1.4859)+(0.0316)Ser+(-0.0137)Thr+(-0.1100)Cit+(-0.0753)Tyr+(0.0392)Orn+(0.0648)Phe;0.733,0.772,0.779,0.776,0.765,0.816,0.787,0.786,(3.4482)+(-0.1116)Asn+(0.0136)Thr+(-0.0121)Ala+(-0.0835)Cit+(0.0095)Pro+(0.0564)Phe;0.733,0.772,0.749,0.745,0.733,0.827,0.735,0.760,(-0.1864)+(0.0393)Ser+(-0.0037)Gly+(-0.0091)Ala+(-0.0849)Cit+(-0.0200)Lys+(0.0705)Phe;0.733,0.776,0.767,0.753,0.770,0.854,0.734,0.778,(4.4203)+(-0.0115)Ala+(-0.1196)Cit+(0.0110)Pro+(-0.0059)Val+(0.0622)Orn+(-0.0129)Lys;0.733,0.773,0.702,0.760,0.671,0.762,0.567,0.690,(-0.9487)+(0.0294)Ser+(0.0032)Thr+(-0.0302)Arg+(-0.0659)Tyr+(-0.0152)Val+(0.0951)Phe;0.733,0.776,0.761,0.753,0.751,0.796,0.778,0.770,(1.0093)+(0.0044)Gln+(0.0010)Pro+(-0.2798)Met+(0.0075)Orn+(-0.0134)Lys+(0.0561)Ile;0.733,0.774,0.751,0.756,0.768,0.819,0.656,0.750,(4.4510)+(-0.0908)Cit+(0.0093)Pro+(-0.0194)Tyr+(-0.0110)Val+(-0.1713)Met+(0.0533)Orn;0.733,0.774,0.721,0.735,0.695,0.767,0.704,0.725,(1.9162)+(0.0478)Ser+(-0.1392)Asn+(-0.0078)Gly+(0.0059)Pro+(-0.0519)Tyr+(0.0204)Orn;0.733,0.776,0.722,0.764,0.730,0.714,0.603,0.703,(2.8219)+(-0.1330)Asn+(0.0037)Gly+(0.0194)Thr+(-0.0804)Cit+(-0.0693)Tyr+(0.0857)Phe;0.733,0.774,0.784,0.800,0.764,0.832,0.747,0.786,(2.3244)+(0.0411)Ser+(-0.1583)Asn+(-0.0053)Gly+(0.0053)Gln+(-0.0607)Cit+(-0.0090)Val;0.733,0.773,0.772,0.775,0.772,0.822,0.

729,0.774,(4.1295)+(0.0045)Gly+(-0.0096)Ala+(-0.0806)Cit+(0.0154)Pro+(-0.1759)Met+(0.0081)Leu;0.733,0.770,0.725,0.717,0.735,0.770,0.694,0.729,(2.4901)+(0.0230)Thr+(-0.0140)Arg+(-0.3024)Met+(0.0061)Orn+(-0.0119)Lys+(0.0579)Ile;0.733,0.784,0.706,0.678,0.688,0.787,0.759,0.728,(0.0737)+(0.0539)Ser+(-0.1228)Asn+(-0.0056)Gly+(-0.0042)Thr+(-0.0186)Lys+(0.0436)Ile;0.733,0.776,0.792,0.832,0.766,0.769,0.756,0.781,(0.9962)+(-0.1282)Asn+(0.0086)Gln+(-0.0801)Cit+(-0.0041)Arg+(-0.0640)Tyr+(0.0805)Phe;0.733,0.776,0.728,0.748,0.743,0.702,0.661,0.713,(-0.4069)+(0.0198)Thr+(0.0072)Pro+(-0.3880)Met+(0.0035)Orn+(-0.0132)Leu+(0.1033)Phe;0.733,0.774,0.789,0.810,0.745,0.835,0.791,0.796,(1.8690)+(0.0443)Ser+(-0.1372)Asn+(-0.0077)Gly+(0.0036)Gln+(-0.0042)Ala+(-0.0280)Tyr;0.733,0.773,0.769,0.768,0.775,0.842,0.705,0.773,(4.7617)+(-0.0082)Ala+(-0.1225)Cit+(0.0044)Arg+(-0.0257)Tyr+(0.0665)Orn+(-0.0136)Lys;0.733,0.770,0.736,0.752,0.757,0.721,0.659,0.722,(0.0928)+(0.0009)Gly+(0.0249)Thr+(-0.3590)Met+(-0.0102)Lys+(-0.0047)Leu+(0.1050)Phe;0.733,0.769,0.747,0.753,0.716,0.822,0.742,0.758,(1.4356)+(0.0037)Gln+(-0.0697)Cit+(-0.0225)Arg+(-0.0062)Pro+(0.1729)Ile+(-0.0945)Leu;0.733,0.775,0.706,0.735,0.700,0.774,0.591,0.700,(1.8008)+(0.0390)Ser+(-0.1301)Asn+(-0.0182)Arg+(0.0066)Pro+(-0.0437)Tyr+(0.0221)Orn;0.733,0.774,0.803,0.821,0.759,0.858,0.807,0.811,(2.3147)+(0.0432)Ser+(-0.1510)Asn+(-0.0072)Gly+(0.0038)Gln+(-0.0034)Ala+(-0.0093)Val;0.733,0.774,0.790,0.820,0.749,0.866,0.743,0.795,(2.0709)+(0.0343)Ser+(-0.1448)Asn+(0.0032)Gln+(-0.0034)Ala+(-0.0080)Val+(-0.0024)Lys;0.732,0.776,0.681,0.696,0.709,0.784,0.513,0.675,(1.0374)+(0.0242)Ser+(-0.0946)Cit+(-0.0170)Arg+(0.0047)Pro+(-0.0613)Tyr+(0.0397)Orn;0.732,0.773,0.747,0.745,0.723,0.829,0.744,0.760,(1.8302)+(0.0038)Gln+(-0.0737)Cit+(-0.0163)Arg+(-0.0098)Lys+(0.1589)Ile+(-0.0858)Leu;0.732,0.780,0.740,0.772,0.756,0.815,0.568,0.728,(0.4292)+(0.0325)Ser+(0.0016)Gln+(0.0124)Thr+(-0.0180)Arg+(0.0009)

Tyr+(-0.2763)Met;0.732,0.778,0.642,0.648,0.643,0.723,0.564,0.644,(-1.7044)+(0.0262)Ser+(-0.1108)Cit+(-0.0880)Tyr+(0.0274)Orn+(0.0263)Ile+(0.0504)Phe;0.732,0.772,0.776,0.795,0.744,0.791,0.782,0.778,(3.6975)+(-0.0757)Asn+(-0.0099)Ala+(-0.0706)Cit+(0.0122)Pro+(-0.0483)Tyr+(0.0790)Phe;0.732,0.771,0.770,0.786,0.780,0.746,0.725,0.759,(-0.9823)+(0.0065)Gln+(-0.0764)Cit+(0.0076)Pro+(-0.3323)Met+(-0.0101)Leu+(0.1021)Phe;0.732,0.770,0.776,0.788,0.754,0.822,0.759,0.780,(4.8799)+(-0.0611)Asn+(-0.0061)Ala+(0.0134)Pro+(-0.0126)Val+(-0.1280)Met+(0.0336)Orn;0.732,0.768,0.749,0.750,0.747,0.765,0.741,0.751,(0.7280)+(-0.0529)Asn+(0.0047)Gln+(0.0181)Thr+(-0.3186)Met+(-0.0056)Orn+(0.0499)Ile;0.732,0.780,0.728,0.750,0.748,0.817,0.562,0.719,(0.7908)+(0.0337)Ser+(0.0096)Thr+(-0.0170)Arg+(-0.2542)Met+(0.0193)Orn+(-0.0046)Lys;0.732,0.773,0.763,0.771,0.783,0.832,0.653,0.760,(5.3758)+(-0.1276)Asn+(0.0024)Gly+(0.0075)Thr+(-0.1007)Cit+(-0.0151)Val+(0.0589)Orn;0.732,0.771,0.758,0.752,0.798,0.825,0.643,0.755,(4.5290)+(-0.0539)Asn+(0.0033)Gly+(-0.1041)Cit+(-0.1237)Met+(0.0541)Orn+(-0.0078)Lys;0.732,0.770,0.729,0.714,0.738,0.770,0.723,0.736,(2.5131)+(-0.0210)Asn+(0.0211)Thr+(0.0007)Pro+(-0.2937)Met+(-0.0122)Lys+(0.0572)Ile;0.732,0.782,0.765,0.791,0.757,0.845,0.653,0.761,(0.8677)+(0.0370)Ser+(-0.0030)Ala+(-0.0115)Arg+(0.0089)Tyr+(-0.2196)Met+(-0.0002)Lys;0.732,0.767,0.773,0.764,0.785,0.851,0.717,0.779,(4.4094)+(-0.0088)Ala+(-0.1211)Cit+(0.0019)Arg+(-0.0042)Val+(0.0660)Orn+(-0.0134)Lys;0.732,0.780,0.709,0.726,0.716,0.780,0.600,0.706,(0.0704)+(0.0415)Ser+(-0.0146)Arg+(0.0107)Pro+(-0.0054)Tyr+(-0.2813)Met+(0.0046)Leu;0.732,0.774,0.804,0.832,0.789,0.782,0.778,0.795,(-0.6836)+(0.0057)Gln+(-0.0045)Ala+(-0.0151)Arg+(-0.2765)Met+(-0.0057)Leu+(0.0981)Phe;0.732,0.778,0.768,0.802,0.736,0.848,0.688,0.769,(3.1613)+(0.0342)Ser+(-0.1351)Asn+(0.0057)Thr+(-0.0031)Ala+(-0.0157)Tyr+(-0.0074)Val;0.732,0.774,0.769,0.782,0.780,0.744,0.729,0.759,(-1.0800)+

(0.0068)Gln+(-0.0752)Cit+(-0.0047)Arg+(0.0065)Pro+(-0.3408)Met+(0.093
5)Phe;0.732,0.775,0.753,0.762,0.785,0.824,0.612,0.746,(4.2250)+(0.015
1)Thr+(-0.0968)Cit+(-0.0149)Tyr+(-0.0085)Val+(-0.2013)Met+(0.0500)Orn
;0.732,0.774,0.746,0.739,0.714,0.829,0.773,0.764,(1.8220)+(0.0034)Gln
+(-0.0053)Thr+(-0.0847)Cit+(-0.0125)Lys+(0.1576)Ile+(-0.0830)Leu;0.73
2,0.777,0.732,0.725,0.715,0.770,0.758,0.742,(-0.9277)+(0.0536)Ser+(-0
.1649)Asn+(-0.0062)Gly+(0.0024)Gln+(-0.0172)Lys+(0.0590)Phe;0.732,0.7
73,0.775,0.784,0.740,0.829,0.786,0.785,(4.1045)+(-0.1889)Asn+(0.0038)
Gln+(0.0129)Thr+(-0.0505)Val+(0.0321)Orn+(0.0644)Leu;0.732,0.773,0.78
3,0.802,0.784,0.753,0.753,0.773,(-0.8196)+(-0.0656)Asn+(0.0018)Gly+(0
.0055)Gln+(-0.2897)Met+(0.0076)Orn+(0.0836)Phe;0.732,0.771,0.754,0.77
2,0.755,0.745,0.712,0.746,(0.9373)+(0.0010)Gly+(-0.0289)Tyr+(-0.2456)
Met+(0.0212)Orn+(-0.0100)Lys+(0.0939)Phe;0.732,0.770,0.769,0.762,0.78
1,0.852,0.700,0.774,(4.2170)+(0.0016)Gly+(-0.0089)Ala+(-0.1222)Cit+(-
0.0040)Val+(0.0659)Orn+(-0.0132)Lys;0.732,0.776,0.717,0.729,0.712,0.7
52,0.669,0.716,(-0.7004)+(0.0427)Ser+(-0.1937)Asn+(0.0031)Pro+(0.0114
)Orn+(-0.0228)Leu+(0.0699)Phe;0.732,0.779,0.752,0.763,0.736,0.729,0.7
73,0.750,(-1.4125)+(0.0044)Gln+(-0.0267)Tyr+(-0.3397)Met+(-0.0035)Orn
+(0.0432)Ile+(0.0776)Phe;0.732,0.779,0.694,0.703,0.695,0.684,0.673,0.
689,(-0.6841)+(0.0248)Thr+(0.0041)Pro+(-0.0401)Tyr+(-0.3917)Met+(0.03
80)Ile+(0.0888)Phe;0.732,0.776,0.753,0.754,0.710,0.830,0.784,0.769,(2
.5273)+(0.0033)Gly+(-0.0122)Ala+(-0.0928)Cit+(0.0001)Arg+(-0.0319)Tyr
+(0.0652)Ile;0.732,0.769,0.801,0.828,0.808,0.832,0.696,0.791,(3.6533)
+(-0.0950)Asn+(0.0072)Gln+(0.0227)Thr+(-0.0706)Cit+(-0.0069)Val+(-0.1
869)Met;0.732,0.783,0.705,0.678,0.687,0.792,0.754,0.728,(0.2093)+(0.0
526)Ser+(-0.1271)Asn+(-0.0058)Gly+(-0.0012)Pro+(-0.0194)Lys+(0.0442)I
le;0.732,0.781,0.758,0.759,0.782,0.759,0.709,0.752,(-0.8932)+(0.0053)
Gln+(-0.0936)Cit+(0.0049)Pro+(-0.3367)Met+(0.0259)Orn+(0.0851)Phe;0.7

32,0.780,0.761,0.751,0.798,0.769,0.707,0.756,(1.9002)+(-0.0438)Asn+(-0.0924)Cit+(0.0026)Arg+(-0.2373)Met+(0.0384)Orn+(0.0759)Phe;0.732,0.780,0.771,0.778,0.795,0.776,0.698,0.762,(-0.6632)+(0.0051)Gln+(-0.0964)Cit+(-0.3001)Met+(0.0338)Orn
+(-0.0109)Leu+(0.0947)Phe;0.732,0.774,0.740,0.750,0.753,0.815,0.631,0.737,(2.7503)+(0.0391)Ser+(-0.1255)Asn+(0.0032)Thr+(-0.0685)Cit+(-0.0009)Arg+(-0.0086)Lys;0.732,0.771,0.740,0.743,0.726,0.829,0.697,0.749,(-0.3615)+(0.0338)Ser+(-0.0086)Ala+(-0.0860)Cit+(-0.0034)Val+(-0.0184)Lys+(0.0763)Phe;0.732,0.779,0.700,0.705,0.706,0.779,0.615,0.702,(-0.3860)+(0.0400)Ser+(0.0088)Pro+(-0.2906)Met+(0.0129)Orn+(-0.0083)Lys+(0.0074)Leu;0.732,0.776,0.765,0.781,0.764,0.826,0.676,0.762,(1.5923)+(0.0366)Ser+(-0.1431)Asn+(0.0052)Gln+(-0.0756)Cit+(-0.0025)Arg+(-0.0089)Lys;0.732,0.775,0.788,0.818,0.748,0.863,0.737,0.792,(2.1656)+(0.0332)Ser+(-0.1528)Asn+(0.0030)Gln+(0.0025)Thr+(-0.0036)Ala+(-0.0090)Val;0.732,0.772,0.729,0.713,0.712,0.812,0.751,0.747,(1.4614)+(0.0017)Gln+(-0.0148)Thr+(-0.1055)Cit+(0.0370)Orn+(0.1560)Ile+(-0.0935)Leu;0.732,0.769,0.752,0.771,0.740,0.801,0.695,0.752,(2.0295)+(-0.0090)Ala+(-0.1145)Cit+(-0.0557)Tyr+(0.0548)Orn+(-0.0121)Leu+(0.0775)Phe;0.732,0.773,0.739,0.747,0.715,0.802,0.720,0.746,(2.1492)+(-0.0126)Ala+(-0.1166)Cit+(0.0107)Pro+(-0.0586)Tyr+(0.0486)Orn+(0.0583)Phe;0.732,0.772,0.819,0.834,0.795,0.833,0.819,0.820,(1.4995)+(-0.1251)Asn+(0.0073)Gln+(-0.0080)Ala+(-0.0859)Cit+(-0.0082)Leu+(0.0709)Phe;0.732,0.768,0.801,0.824,0.767,0.833,0.787,0.803,(3.8028)+(-0.0947)Asn+(0.0071)Gln+(-0.0089)Ala+(-0.0807)Cit+(0.0128)Pro+(-0.0293)Tyr;0.732,0.767,0.763,0.792,0.757,0.735,0.717,0.750,(1.8496)+(-0.0576)Asn+(-0.0378)Tyr+(-0.1776)Met+(0.0248)Orn+(-0.0153)Leu+(0.1004)Phe;0.732,0.772,0.742,0.744,0.727,0.830,0.705,0.751,(-0.4356)+(0.0352)Ser+(-0.0016)Thr+(-0.0091)Ala+(-0.0895)Cit+(-0.0192)Lys+(0.0731)Phe;0.732,0.778,0.770,0.769,0.739,0.840,

0.789,0.784,(1.6122)+(0.0464)Ser+(-0.1383)Asn+(-0.0059)Gly+(-0.0044)Thr+(-0.0063)Ala+(0.0220)Orn;0.732,0.778,0.657,0.670,0.632,0.745,0.614,0.665,(-1.7693)+(0.0379)Ser+(-0.0212)Arg+(-0.0655)Tyr+(-0.0229)Lys+(0.0436)Ile+(0.0597)Phe;0.732,0.775,0.761,0.753,0.750,0.796,0.778,0.769,(0.9247)+(0.0007)Gly+(0.0046)Gln+(0.0012)Pro+(-0.2837)Met+(-0.0124)Lys+(0.0584)Ile;0.732,0.773,0.748,0.759,0.762,0.728,0.708,0.739,(0.4508)+(-0.0426)Asn+(0.0031)Gly+(0.0061)Pro+(-0.3014)Met+(0.0091)Orn+(0.0837)Phe;0.732,0.771,0.772,0.791,0.763,0.770,0.745,0.767,(1.2581)+(-0.0053)Ala+(-0.0128)Arg+(-0.0250)Tyr+(-0.2158)Met+(0.0229)Orn+(0.0908)Phe;0.732,0.768,0.746,0.746,0.745,0.765,0.735,0.748,(0.7073)+(-0.0543)Asn+(0.0004)Gly+(0.0044)Gln+(0.0168)Thr+(-0.3143)Met+(0.0481)Ile;0.732,0.773,0.718,0.698,0.669,0.822,0.796,0.746,(-0.8387)+(0.0388)Ser+(-0.0051)Gly+(-0.0016)Gln+(-0.0125)Ala+(-0.0256)Arg+(0.0520)Ile;0.732,0.780,0.753,0.762,0.728,0.842,0.717,0.762,(1.6632)+(0.0382)Ser+(-0.1278)Asn+(-0.0060)Ala+(0.0244)Orn+(-0.0101)Lys+(0.0030)Leu;0.732,0.766,0.754,0.754,0.738,0.832,0.730,0.763,(3.8841)+(-0.0082)Ala+(-0.1074)Cit+(-0.0308)Tyr+(-0.0246)Val+(0.0610)Orn+(0.0356)Leu;0.732,0.776,0.705,0.693,0.719,0.776,0.660,0.712,(2.4370)+(-0.1133)Cit+(-0.0656)Tyr+(0.0504)Orn+(-0.0262)Lys+(0.0359)Ile+(0.0580)Phe;0.732,0.769,0.794,0.819,0.784,0.769,0.767,0.785,(1.4920)+(-0.0029)Ala+(-0.0089)Arg+(-0.0128)Val+(-0.2485)Met+(0.0029)Lys+(0.1120)Phe;0.732,0.779,0.766,0.790,0.750,0.858,0.671,0.767,(0.7849)+(0.0353)Ser+(-0.0027)Ala+(0.0104)Tyr+(-0.0024)Val+(-0.2277)Met+(-0.0013)Lys;0.732,0.770,0.807,0.831,0.769,0.814,0.814,0.807,(2.1567)+(-0.1470)Asn+(0.0039)Gln+(-0.0054)Ala+(-0.0196)Val+(0.0297)Orn+(0.0747)Phe;0.732,0.768,0.765,0.777,0.772,0.746,0.731,0.757,(1.8008)+(-0.0520)Cit+(0.0010)Arg+(0.0105)Pro+(-0.0145)Val+(-0.2901)Met+(0.1115)Phe;0.732,0.773,0.794,0.825,0.773,0.774,0.771,0.786,(-0.5856)+(0.0057)Gln+(-0.0046)Ala+(-0.0150)Arg+(-0.0217)Tyr+(-0.25

43)Met+(0.0994)Phe;0.732,0.777,0.740,0.747,0.696,0.836,0.742,0.755,(1.1464)+(0.0372)Ser+(-0.1514)Asn+(0.0007)Gln+(-0.0094)Ala+(0.0101)Pro+(0.0143)Orn;0.732,0.775,0.663,0.664,0.586,0.784,0.733,0.692,(-0.0834)+(0.0305)Ser+(-0.0038)Gln+(-0.0122)Ala+(0.0083)Pro+(-0.0493)Tyr+(0.0521)Ile;0.732,0.770,0.792,0.833,0.753,0.784,0.770,0.785,(3.2503)+(-0.1068)Asn+(0.0021)Gly+(-0.0037)Ala+(-0.0425)Tyr+(-0.0143)Val+(0.1025)Phe;0.732,0.776,0.780,0.808,0.750,0.845,0.718,0.780,(1.3008)+(0.0359)Ser+(-0.1377)Asn+(0.0031)Gln+(0.0014)Thr+(-0.0053)Ala+(-0.0148)Arg;0.732,0.770,0.763,0.761,0.790,0.812,0.675,0.759,(5.2644)+(-0.0520)Asn+(-0.1002)Cit+(-0.0237)Tyr+(-0.0820)Met+(0.0580)Orn+(-0.0078)Lys;0.732,0.769,0.788,0.808,0.779,0.775,0.760,0.781,(1.2725)+(-0.0457)Asn+(0.0032)Gly+(-0.0046)Ala+(-0.2212)Met+(-0.0062)Leu+(0.0985)Phe;0.732,0.776,0.759,0.759,0.717,0.835,0.792,0.776,(2.0559)+(0.0459)Ser+(-0.1369)Asn+(-0.0060)Gly+(-0.0089)Ala+(0.0119)Pro+(-0.0041)Leu;0.732,0.781,0.771,0.798,0.763,0.854,0.655,0.767,(1.1395)+(0.0362)Ser+(-0.0025)Ala+(-0.0116)Arg+(0.0105)Tyr+(-0.0028)Val+(-0.2141)Met;0.732,0.775,0.786,0.808,0.790,0.767,0.734,0.775,(-0.9361)+(0.0012)Gly+(0.0057)Gln+(-0.0131)Arg+(-0.3102)Met+(-0.0066)Lys+(0.0938)Phe;0.732,0.772,0.783,0.796,0.783,0.781,0.751,0.778,(1.1512)+(-0.0051)Ala+(-0.0137)Arg+(-0.2388)Met+(0.0241)Orn+(-0.0091)Leu+(0.0921)Phe;0.732,0.771,0.786,0.803,0.757,0.844,0.758,0.791,(3.3444)+(0.0466)Ser+(-0.1209)Asn+(-0.0067)Gly+(-0.0030)Ala+(-0.0111)Arg+(-0.0083)Val;0.732,0.769,0.738,0.742,0.744,0.764,0.693,0.736,(0.5674)+(0.0044)Gln+(0.0217)Thr+(-0.0220)Arg+(-0.3521)Met+(-0.0043)Orn+(0.0547)Ile;0.732,0.778,0.697,0.725,0.701,0.675,0.633,0.683,(-0.4022)+(0.0004)Gly+(0.0246)Thr+(0.0078)Pro+(-0.0416)Tyr+(-0.3734)Met+(0.1073)Phe;0.732,0.773,0.725,0.716,0.704,0.818,0.727,0.741,(2.4945)+(0.0035)Gly+(-0.0042)Thr+(-0.0845)Cit+(-0.0109)Lys+(0.1587)Ile+(-0.0825)Leu;0.732,0.780,0.711,0.720,0.724,0.795,0.597,0.709,(-0.19

82)+(0.0366)Ser+(0.0078)Thr+(-0.2838)Met+(0.0140)Orn+(-0.0100)Lys+(0.0123)Leu;0.732,0.773,0.759,0.781,0.756,0.747,0.714,0.750,(1.0762)+(-0.0314)Tyr+(-0.2314)Met+(0.0241)Orn+(-0.0078)Lys+(-0.0093)Leu+(0.1004)Phe;0.732,0.772,0.732,0.749,0.738,0.780,0.643,0.727,(2.4273)+(-0.1055)Cit+(-0.0632)Tyr+(-0.0127)Val+(0.0619)Orn+(-0.0157)Lys+(0.0889)Phe;0.732,0.770,0.787,0.816,0.768,0.764,0.766,0.779,(1.4128)+(-0.0026)Ala+(-0.0185)Tyr+(-0.0121)Val+(-0.2332)Met+(0.0008)Lys+(0.1162)Phe;0.732,0.770,0.754,0.773,0.691,0.785,0.817,0.766,(2.5533)+(-0.0868)Asn+(-0.0107)Ala+(0.0081)Pro+(-0.0538)Tyr+(0.0339)Ile+(0.0541)Phe;0.732,0.768,0.802,0.804,0.760,0.833,0.861,0.815,(0.9847)+(-0.1082)Asn+(0.0049)Gln+(-0.0107)Ala+(-0.0164)Arg+(0.0370)Ile+(0.0318)Phe;0.732,0.775,0.776,0.779,0.758,0.801,0.791,0.782,(1.4766)+(-0.0366)Asn+(0.0058)Gln+(-0.0149)Tyr+(-0.2261)Met+(-0.0105)Lys+(0.0559)Ile;0.732,0.774,0.727,0.762,0.728,0.704,0.651,0.711,(3.2399)+(-0.1243)Asn+(0.0202)Thr+(-0.0743)Cit+(0.0038)Pro+(-0.0760)Tyr+(0.0789)Phe;0.732,0.771,0.790,0.807,0.794,0.762,0.761,0.781,(2.7461)+(-0.0529)Asn+(-0.0511)Cit+(-0.0140)Val+(-0.2068)Met+(0.0034)Lys+(0.1127)Phe;0.732,0.770,0.744,0.747,0.733,0.826,0.699,0.751,(3.6348)+(0.0013)Gly+(-0.0123)Ala+(-0.1194)Cit+(0.0123)Pro+(-0.0406)Tyr+(0.0535)Orn;0.732,0.768,0.736,0.740,0.743,0.763,0.690,0.734,(0.5731)+(0.0000)Gly+(0.0043)Gln+(0.0208)Thr+(-0.0223)Arg+(-0.3495)Met+(0.0532)Ile;0.732,0.782,0.729,0.737,0.771,0.719,0.627,0.714,(0.5238)+(0.0283)Thr+(-0.0784)Cit+(0.0072)Pro+(-0.3900)Met+(-0.0088)Leu+(0.1076)Phe;0.732,0.779,0.725,0.772,0.672,0.796,0.659,0.725,(-1.2999)+(0.0310)Ser+(0.0002)Thr+(-0.0076)Ala+(-0.0269)Arg+(-0.0572)Tyr+(0.0781)Phe;0.732,0.779,0.784,0.795,0.760,0.816,0.782,0.788,(2.6881)+(-0.0949)Asn+(0.0079)Gln+(-0.0825)Cit+(-0.0425)Tyr+(-0.0133)Lys+(0.0471)Ile;0.732,0.773,0.786,0.810,0.739,0.829,0.788,0.792,(4.2616)+(-0.1527)Asn+(0.0047)Gln+(-0.0270)Tyr+(-0.0434)Val+(0.0386)Orn+(0.0568)Leu;

0.732,0.772,0.769,0.783,0.782,0.756,0.716,0.759,(1.1056)+(-0.0118)Arg+(-0.2634)Met+(0.0238)Orn+(-0.0055)Lys+(-0.0103)Leu+(0.0919)Phe;0.732,0.769,0.746,0.749,0.734,0.824,0.706,0.753,(3.7917)+(0.0015)Thr+(-0.0122)Ala+(-0.1176)Cit+(0.0121)Pro+(-0.0425)Tyr+(0.0531)Orn;0.732,0.777,0.768,0.755,0.804,0.809,0.696,0.766,(3.4952)+(-0.0982)Asn+(-0.1053)Cit+(0.0552)Orn+(-0.0130)Lys+(-0.0169)Leu+(0.0604)Phe;0.732,0.773,0.793,0.817,0.790,0.757,0.762,0.781,(-0.3390)+(-0.0701)Asn+(0.0057)Gln+(-0.2609)Met+(0.0139)Orn+(-0.0136)Leu+(0.0915)Phe;0.732,0.770,0.786,0.804,0.780,0.779,0.754,0.779,(1.2706)+(-0.0381)Asn+(0.0034)Gly+(-0.0050)Ala+(-0.0071)Arg+(-0.2241)Met+(0.0943)Phe;0.732,0.777,0.711,0.715,0.629,0.807,0.802,0.738,(-0.5106)+(0.0358)Ser+(-0.0083)Gly+(-0.0104)Ala+(-0.0549)Tyr+(0.0039)Orn+(0.0528)Ile;0.732,0.782,0.704,0.716,0.718,0.710,0.640,0.696,(0.0247)+(0.0324)Thr+(-0.0223)Arg+(-0.0389)Tyr+(-0.3716)Met+(0.0420)Ile+(0.0909)Phe;0.732,0.780,0.749,0.776,0.718,0.821,0.694,0.752,(2.0357)+(0.0360)Ser+(-0.1354)Asn+(-0.0050)Ala+(-0.0273)Tyr+(0.0247)Orn+(0.0003)Leu;0.732,0.777,0.768,0.760,0.777,0.791,0.757,0.771,(0.9578)+(0.0061)Gln+(-0.0777)Cit+(-0.0029)Arg+(0.0017)Pro+(-0.2936)Met+(0.0540)Ile;0.732,0.773,0.746,0.744,0.732,0.841,0.713,0.758,(1.7971)+(0.0331)Ser+(-0.0055)Thr+(-0.0111)Ala+(-0.0840)Cit+(0.0145)Pro+(-0.0124)Lys;0.732,0.770,0.793,0.800,0.780,0.825,0.779,0.796,(2.6359)+(0.0058)Gln+(-0.0092)Ala+(-0.0825)Cit+(0.0142)Pro+(-0.2013)Met+(0.0067)Leu;0.732,0.783,0.743,0.770,0.741,0.842,0.606,0.740,(0.7160)+(0.0306)Ser+(0.0055)Thr+(0.0015)Tyr+(-0.0069)Val+(-0.2618)Met+(0.0202)Orn;0.732,0.780,0.714,0.734,0.719,0.790,0.597,0.710,(0.4305)+(0.0406)Ser+(-0.0145)Arg+(0.0113)Pro+(-0.0045)Tyr+(-0.2663)Met+(-0.0014)Lys;0.732,0.779,0.779,0.792,0.780,0.745,0.768,0.771,(-0.7648)+(-0.0580)Asn+(0.0056)Gln+(0.0054)Pro+(-0.3106)Met+(0.0052)Orn+(0.0814)Phe;0.732,0.778,0.699,0.713,0.698,0.776,0.606,0.698,(-0.5411)+(0.0388)Ser+(0.0095)

Pro+(-0.0079)Tyr+(-0.3034)Met+(0.0095)Orn+(0.0041)Leu;0.732,0.771,0.775,0.795,0.756,0.770,0.764,0.771,(1.7968)+(-0.0487)Asn+(-0.0052)Ala+(-0.0298)Tyr+(-0.1787)Met+(0.0214)Orn+(0.0889)Phe;0.732,0.778,0.767,0.798,0.758,0.847,0.646,0.762,(1.2977)+(0.0354)Ser+(-0.0024)Ala+(-0.0122)Arg+(-0.0027)Val+(-0.2011)Met+(0.0014)Lys;0.732,0.776,0.738,0.730,0.750,0.803,0.688,0.743,(2.5081)+(0.0463)Ser+(-0.1225)Asn+(-0.0041)Gly+(-0.0650)Cit+(0.0055)Pro+(-0.0107)Lys;0.732,0.773,0.737,0.770,0.718,0.810,0.638,0.734,(3.3265)+(0.0388)Ser+(-0.1274)Asn+(-0.0147)Arg+(0.0116)Pro+(-0.0254)Tyr+(-0.0122)Val;0.732,0.771,0.720,0.710,0.679,0.762,0.801,0.738,(0.6532)+(-0.0121)Thr+(0.0097)Orn+(-0.0130)Lys+(0.1484)Ile+(-0.0905)Leu+(0.0381)Phe;0.732,0.772,0.737,0.720,0.759,0.783,0.703,0.741,(2.9625)+(-0.0940)Cit+(0.0019)Arg+(-0.0212)Tyr+(-0.2230)Met+(0.0342)Orn+(0.0466)Ile;0.732,0

.781,0.759,0.790,0.730,0.829,0.688,0.759,(2.1896)+(0.0388)Ser+(-0.1164)Asn+(-0.0045)Ala+(-0.0108)Arg+(-0.0203)Tyr+(0.0043)Leu;0.732,0.777,0.726,0.771,0.693,0.741,0.668,0.718,(-0.6571)+(0.0446)Ser+(-0.0099)Gly+(-0.0287)Arg+(-0.0770)Tyr+(-0.0180)Leu+(0.0927)Phe;0.732,0.775,0.704,0.714,0.706,0.776,0.623,0.705,(-0.4660)+(0.0408)Ser+(0.0005)Gln+(0.0095)Pro+(-0.2953)Met+(-0.0065)Lys+(0.0084)Leu;0.732,0.774,0.687,0.671,0.672,0.746,0.717,0.701,(-1.9498)+(0.0496)Ser+(-0.1774)Asn+(-0.0106)Thr+(-0.0014)Pro+(0.0254)Ile+(0.0381)Phe;0.732,0.773,0.785,0.803,0.772,0.821,0.737,0.783,(2.6800)+(-0.1015)Asn+(0.0058)Gly+(-0.0079)Ala+(-0.0823)Cit+(-0.0070)Leu+(0.0795)Phe;0.732,0.773,0.772,0.778,0.722,0.833,0.818,0.788,(1.8460)+(0.0037)Gln+(-0.0121)Ala+(-0.0906)Cit+(-0.0036)Arg+(-0.0375)Tyr+(0.0622)Ile;0.732,0.781,0.749,0.757,0.708,0.844,0.744,0.763,(1.8422)+(0.0402)Ser+(-0.1227)Asn+(-0.0020)Thr+(-0.0085)Ala+(0.0123)Pro+(-0.0074)Lys;0.732,0.781,0.780,0.765,0.808,0.823,0.732,0.782,(1.7517)+(-0.1217)Asn+(0.0064)Gln+(-0.1137)Cit+(0.0474)Orn+(-0.

0194)Lys+(0.0446)Phe;0.732,0.778,0.772,0.806,0.757,0.846,0.658,0.767,(0.5313)+(0.0340)Ser+(0.0021)Gln+(-0.0028)Ala+(-0.0132)Arg+(-0.2122)Met+(-0.0005)Lys;0.732,0.773,0.701,0.704,0.702,0.775,0.638,0.705,(1.1787)+(0.0322)Ser+(-0.0082)Gly+(-0.0987)Cit+(0.0043)Pro+(-0.0716)Tyr+(0.0394)Orn;0.732,0.779,0.742,0.751,0.704,0.836,0.730,0.755,(1.6189)+(0.0371)Ser+(-0.1468)Asn+(-0.0090)Ala+(0.0109)Pro+(0.0169)Orn+(-0.0054)Leu;0.732,0.777,0.675,0.693,0.634,0.721,0.680,0.682,(-1.6863)+(0.0450)Ser+(-0.0092)Gly+(-0.0297)Arg+(-0.0862)Tyr+(0.0288)Ile+(0.0545)Phe;0.732,0.770,0.726,0.723,0.677,0.769,0.807,0.744,(0.3582)+(0.0010)Gln+(-0.0118)Thr+(-0.0127)Lys+(0.1509)Ile+(-0.0910)Leu+(0.0395)Phe;0.732,0.776,0.714,0.701,0.707,0.796,0.705,0.727,(0.8753)+(-0.0891)Cit+(-0.0231)Arg+(0.0294)Orn+(0.1557)Ile+(-0.1010)Leu+(0.0459)Phe;0.732,0.772,0.755,0.739,0.767,0.784,0.749,0.760,(3.7749)+(-0.0638)Cit+(0.0026)Pro+(-0.0124)Tyr+(-0.2113)Met+(-0.0082)Lys+(0.0576)Ile;0.732,0.780,0.716,0.756,0.659,0.733,0.714,0.716,(-0.7108)+(0.0352)Ser+(-0.0113)Gly+(-0.0828)Tyr+(-0.0171)Val+(0.0222)Orn+(0.0842)Phe;0.732,0.770,0.725,0.721,0.691,0.805,0.753,0.742,(-1.1298)+(0.0349)Ser+(-0.0152)Thr+(-0.0137)Ala+(-0.0910)Cit+(0.0126)Pro+(0.0491)Phe;0.732,0.767,0.764,0.777,0.771,0.744,0.729,0.755,(1.7463)+(-0.0512)Cit+(0.0106)Pro+(-0.0149)Val+(-0.2930)Met+(0.0015)Lys+(0.1114)Phe;0.732,0.766,0.780,0.799,0.796,0.824,0.662,0.770,(5.2231)+(-0.0584)Asn+(0.0022)Gly+(0.0248)Thr+(-0.0047)Ala+(-0.0740)Cit+(-0.1663)Met;0.731,0.772,0.722,0.757,0.728,0.689,0.642,0.704,(0.8397)+(-0.0644)Asn+(0.0011)Gly+(0.0284)Thr+(-0.0404)Tyr+(-0.2899)Met+(0.1059)Phe;0.731,0.779,0.750,0.769,0.741,0.822,0.665,0.749,(0.3717)+(0.0394)Ser+(-0.0037)Ala+(-0.0087)Arg+(-0.2254)Met+(-0.0044)Lys+(0.0150)Leu;0.731,0.772,0.696,0.741,0.692,0.742,0.555,0.682,(-0.9676)+(0.0317)Ser+(-0.0682)Cit+(-0.0184)Arg+(-0.0705)Tyr+(-0.0149)Leu+(0.0951)Phe;0.731,0.770,0.779,0.762,0.790,0.860,0.743,0.789,(3.246

3)+(0.0029)Gln+(-0.0105)Ala+(-0.1279)Cit+(0.0614)Orn+(-0.0184)Lys+(0.0061)Leu;0.731,0.777,0.761,0.768,0.731,0.813,0.768,0.770,(3.8753)+(-0.0739)Asn+(0.0058)Thr+(-0.0237)Arg+(-0.0035)Pro+(0.1565)Ile+(-0.0877)Leu;0.731,0.771,0.756,0.774,0.755,0.829,0.655,0.753,(3.3261)+(0.0386)Ser+(-0.1263)Asn+(-0.0584)Cit+(-0.0024)Arg+(-0.0067)Val+(-0.0027)Lys;0.731,0.768,0.730,0.729,0.673,0.775,0.819,0.749,(-0.2372)+(0.0007)Gln+(-0.0160)Thr+(-0.0064)Pro+(0.1668)Ile+(-0.1018)Leu+(0.0400)Phe;0.731,0.773,0.783,0.808,0.788,0.766,0.717,0.770,(-0.8325)+(0.0051)Gln+(-0.0193)Arg+(-0.3034)Met+(0.0169)Orn+(-0.0123)Leu+(0.0951)Phe;0.731,0.775,0.695,0.674,0.677,0.736,0.758,0.711,(-1.6498)+(0.0545)Ser+(-0.1738)Asn+(-0.0041)Gly+(-0.0105)Thr+(0.0218)Ile+(0.0359)Phe;0.731,0.773,0.784,0.803,0.748,0.842,0.770,0.791,(3.3890)+(0.0460)Ser+(-0.1232)Asn+(-0.0072)Gly+(-0.0026)Ala+(-0.0182)Tyr+(-0.0070)Val;0.731,0.773,0.778,0.799,0.765,0.773,0.754,0.773,(1.0214)+(0.0021)Gly+(-0.0045)Ala+(-0.0183)Tyr+(-0.2323)Met+(-0.0051)Lys+(0.1013)Phe;0.731,0.770,0.732,0.756,0.751,0.705,0.649,0.715,(-0.4775)+(0.0009)Gly+(0.0207)Thr+(-0.3726)Met+(0.0055)Orn+(-0.0103)Leu+(0.1023)Phe;0.731,0.769,0.783,0.806,0.782,0.755,0.747,0.772,(-0.9469)+(0.0010)Gly+(0.0049)Gln+(-0.3120)Met+(-0.0076)Lys+(-0.0055)Leu+(0.0976)Phe;0.731,0.777,0.707,0.722,0.706,0.695,0.680,0.701,(0.2575)+(-0.0447)Asn+(0.0275)Thr+(-0.0412)Tyr+(-0.3340)Met+(0.0380)Ile+(0.0872)Phe;0.731,0.772,0.787,0.808,0.757,0.802,0.781,0.787,(2.8969)+(-0.1327)Asn+(0.0020)Gly+(-0.0053)Ala+(-0.0197)Val+(0.0329)Orn+(0.0791)Phe;0.731,0.771,0.751,0.737,0.755,0.786,0.757,0.759,(2.8214)+(-0.0119)Asn+(-0.0061)Arg+(-0.2328)Met+(0.0163)Orn+(-0.0106)Lys+(0.0521)Ile;0.731,0.782,0.720,0.737,0.745,0.799,0.569,0.712,(0.3516)+(0.0368)Ser+(0.0140)Thr+(-0.0139)Arg+(-0.2873)Met+(-0.0060)Lys+(0.0127)Leu;0.731,0.780,0.748,0.773,0.753,0.843,0.600,0.742,(1.2908)+(0.0329)Ser+(-0.0168)Arg+(-0.0071)Val+(-0.2134)Met+(0.0282)Orn+(-0.001

0)Lys;0.731,0.777,0.767,0.777,0.794,0.833,0.637,0.760,(3.0171)+(0.002
9)Gln+(0.0133)Thr+(-0.0971)Cit+(-0.0087)Val+(-0.2364)Met+(0.0445)Orn;
0.731,0.775,0.710,0.736,0.677,0.751,0.683,0.712,(-0.6739)+(0.0491)Ser
+(-0.0098)Gly+(-0.0196)Arg+(-0.0706)Tyr+(-0.0167)Lys+(0.0818)Phe;0.73
1,0.772,0.770,0.775,0.789,0.831,0.672,0.767,(5.7479)+(-0.1208)Asn+(0.
0096)Thr+(-0.0940)Cit+(-0.0055)Arg+(-0.0157)Val+(0.0586)Orn;0.731,0.7
71,0.750,0.755,0.738,0.829,0.707,0.757,(3.9903)+(-0.0117)Ala+(-0.1164
)Cit+(0.0125)Pro+(-0.0408)Tyr+(0.0550)Orn+(-0.0042)Leu;0.731,0.770,0.
794,0.813,0.774,0.809,0.777,0.793,(3.4765)+(-0.1138)Asn+(-0.0051)Ala+
(-0.0136)Arg+(-0.0195)Val+(0.0374)Orn+(0.0770)Phe;0.731,0.781,0.716,0
.734,0.724,0.794,0.595,0.712,(-0.5156)+(0.0359)Ser+(0.0061)Thr+(-0.00
29)Tyr+(-0.3033)Met+(0.0105)Orn+(0.0084)Leu;0.731,0.774,0.690,0.666,0
.723,0.810,0.597,0.699,(-0.6892)+(0.0302)Ser+(-0.1150)Cit+(-0.0113)Va
l+(0.0525)Orn+(-0.0284)Lys+(0.0663)Phe;0.731,0.778,0.746,0.758,0.764,
0.737,0.684,0.736,(0.1592)+(0.0028)Gly+(-0.0135)Arg+(0.0067)Pro+(-0.3
272)Met+(0.0115)Orn+(0.0860)Phe;0.731,0.772,0.738,0.745,0.700,0.785,0
.766,0.749,(0.9804)+(-0.0031)Thr+(-0.0326)Arg+(-0.0060)Pro+(0.1723)Il
e+(-0.1056)Leu+(0.0500)Phe;0.731,0.772,0.722,0.715,0.733,0.767,0.687,
0.725,(2.3578)+(0.0012)Gly+(0.0235)Thr+(-0.0139)Arg+(-0.3072)Met+(-0.
0112)Lys+(0.0604)Ile;0.731,0.770,0.733,0.746,0.762,0.736,0.639,0.721,
(0.5976)+(0.0282)Thr+(-0.0180)Arg+(-0.3525)Met+(0.0104)Orn+(-0.0100)L
ys+(0.0982)Phe;0.731,0.769,0.736,0.739,0.743,0.762,0.691,0.734,(0.587
6)+(0.0042)Gln+(0.0207)Thr+(-0.0223)Arg+(0.0010)Pro+(-0.3511)Met+(0.0
521)Ile;0.731,0.769,0.785,0.799,0.749,0.851,0.777,0.794,(3.1516)+(0.0
461)Ser+(-0.1264)Asn+(-0.0068)Gly+(-0.0033)Ala+(-0.0076)Val+(-0.0029)
Lys;0.731,0.779,0.753,0.766,0.706,0.847,0.747,0.766,(1.4954)+(0.0381)
Ser+(-0.1319)Asn+(0.0017)Gln+(-0.0085)Ala+(0.0116)Pro+(-0.0083)Lys;0.
731,0.778,0.729,0.748,0.740,0.802,0.602,0.723,(-0.2045)+(0.0369)Ser+(

0.0009)Gln+(-0.0159)Arg+(-0.2649)Met+(0.0170)Orn+(0.0060)Leu;0.731,0.771,0.726,0.717,0.736,0.767,0.698,0.730,(2.5191)+(0.0239)Thr+(-0.0136)Arg+(0.0009)Pro+(-0.3081)Met+(-0.0111)Lys+(0.0585)Ile;0.731,0.770,0.743,0.753,0.756,0.784,0.662,0.739,(4.8799)+(-0.0890)Asn+(-0.1003)Cit+(-0.0003)Arg+(0.0040)Pro+(-0.0493)Tyr+(0.0523)Orn;0.731,0.782,0.721,0.746,0.754,0.716,0.591,0.702,(1.0210)+(0.0361)Thr+(-0.0737)Cit+(-0.0093)Arg+(-0.0382)Tyr+(-0.3442)Met+(0.1169)Phe;0.731,0.770,0.740,0.766,0.737,0.709,0.702,0.728,(1.0293)+(-0.0436)Asn+(0.0029)Gly+(0.0081)Pro+(-0.0336)Tyr+(-0.2533)Met+(0.0958)Phe;0.731,0.769,0.721,0.708,0.727,0.769,0.711,0.729,(2.0579)+(0.0007)Gly+(0.0193)Thr+(-0.3090)Met+(0.0036)Orn+(-0.0138)Lys+(0.0601)Ile;0.731,0.779,0.769,0.771,0.794,0.773,0.707,0.761,(-0.8041)+(0.0057)Gln+(-0.0919)Cit+(-0.0063)Arg+(-0.3133)Met+(0.0298)Orn+(0.0859)Phe;0.731,0.772,0.761,0.761,0.743,0.793,0.778,0.769,(1.1308)+(0.0003)Gly+(0.0047)Gln+(-0.0118)Tyr+(-0.2606)Met+(-0.0121)Lys+(0.0601)Ile;0.731,0.779,0.769,0.794,0.751,0.853,0.679,0.769,(0.2349)+(0.0345)Ser+(0.0014)Gln+(-0.0031)Ala+(0.0088)Tyr+(-0.2341)Met+(-0.0029)Lys;0.731,0.778,0.779,0.823,0.751,0.839,0.679,0.773,(2.2533)+(0.0343)Ser+(-0.1394)Asn+(0.0043)Gln+(-0.0148)Arg+(-0.0169)Tyr+(-0.0092)Val;0.731,0.778,0.724,0.748,0.714,0.808,0.621,0.722,(0.5794)+(0.0361)Ser+(0.0006)Gln+(0.0127)Pro+(-0.0003)Tyr+(-0.0081)Val+(-0.2785)Met;0.731,0.777,0.769,0.784,0.776,0.787,0.704,0.763,(0.8702)+(0.0058)Gly+(-0.0059)Ala+(-0.0830)Cit+(0.0047)Arg+(-0.2475)Met+(0.1058)Phe;0.731,0.772,0.748,0.776,0.756,0.715,0.684,0.732,(-1.5226)+(0.0033)Gln+(0.0199)Thr+(-0.3900)Met+(0.0019)Orn+(-0.0100)Leu+(0.1024)Phe;0.731,0.771,0.722,0.726,0.737,0.786,0.638,0.722,(1.8738)+(0.0414)Ser+(-0.1392)Asn+(-0.0024)Thr+(-0.0677)Cit+(-0.0058)Arg+(0.0050)Pro;0.731,0.771,0.774,0.806,0.766,0.747,0.727,0.762,(0.9210)+(0.0020)Gly+(-0.0187)Tyr+(-0.0135)Val+(-0.2599)Met+(0.0007)Lys+(0.1193)Phe;0.731,0.775,0.735,0

.739,0.750,0.812,0.635,0.734,(2.5463)+(0.0399)Ser+(-0.1253)Asn+(0.0029)Thr+(-0.0706)Cit+(-0.0104)Lys+(0.0041)Leu;0.731,0.773,0.744,0.748,0.739,0.723,0.756,0.742,(0.9134)+(-0.0289)Asn+(-0.0314)Tyr+(-0.2648)Met+(0.0067)Orn+(0.0376)Ile+(0.0733)Phe;0.731,0.772,0.749,0.733,0.750,0.785,0.765,0.758,(2.6904)+(-0.0143)Asn+(0.0015)Pro+(-0.2414)Met+(0.0143)Orn+(-0.0113)Lys+(0.0513)Ile;0.731,0.772,0.789,0.802,0.793,0.765,0.763,0.781,(2.7599)+(-0.0517)Asn+(-0.0552)Cit+(0.0049)Arg+(-0.0129)Val+(-0.2050)Met+(0.1126)Phe;0.731,0.770,0.738,0.770,0.733,0.706,0.690,0.725,(0.4983)+(0.0019)Gly+(0.0100)Pro+(-0.0326)Tyr+(-0.2839)Met+(-0.0132)Leu+(0.1090)Phe;0.731,0.768,0.770,0.761,0.784,0.854,0.705,0.776,(4.3817)+(0.0048)Thr+(-0.0090)Ala+(-0.1215)Cit+(-0.0043)Val+(0.0648)Orn+(-0.0145)Lys;0.731,0.778,0.740,0.772,0.755,0.818,0.568,0.728,(0.5660)+(0.0321)Ser+(0.0018)Gln+(0.0130)Thr+(-0.0172)Arg+(-0.2671)Met+(-0.0024)Lys;0.731,0.768,0.781,0.775,0.788,0.860,0.726,0.787,(3.5649)+(0.0025)Gln+(-0.0091)Ala+(-0.1227)Cit+(-0.0038)Val+(0.0637)Orn+(-0.0148)Lys;0.731,0.768,0.780,0.769,0.790,0.857,0.733,0.787,(3.3986)+(0.0027)Gln+(-0.0099)Ala+(-0.1274)Cit+(0.0016)Arg+(0.0625)Orn+(-0.0169)Lys;0.731,0.778,0.744,0.774,0.749,0.747,0.652,0.730,(0.7482)+(0.0331)Thr+(-0.0049)Ala+(-0.0213)Arg+(-0.0326)Tyr+(-0.3087)Met+(0.1130)Phe;0.731,0.774,0.792,0.801,0.799,0.848,0.711,0.790,(4.2432)+(-0.1483)Asn+(0.0053)Gln+(0.0063)Thr+(-0.1015)Cit+(-0.0156)Val+(0.0544)Orn;0.731,0.779,0.735,0.764,0.755,0.818,0.557

,0.723,(0.9701)+(0.0342)Ser+(0.0132)Thr+(-0.0159)Arg+(0.0016)Tyr+(-0.2650)Met+(-0.0021)Lys;0.731,0.779,0.705,0.721,0.710,0.788,0.596,0.704,(-0.0261)+(0.0372)Ser+(0.0041)Thr+(0.0094)Pro+(-0.2921)Met+(0.0126)Orn+(-0.0068)Lys;0.731,0.773,0.752,0.769,0.754,0.830,0.645,0.749,(3.4610)+(0.0368)Ser+(-0.1341)Asn+(0.0055)Thr+(-0.0615)Cit+(-0.0071)Val+(-0.0042)Lys;0.731,0.772,0.751,0.780,0.746,0.719,0.707,0.738,(1.3136)+(

-0.0099)Arg+(0.0100)Pro+(-0.0340)Tyr+(-0.2555)Met+(-0.0138)Leu+(0.1074)Phe;0.731,0.780,0.706,0.702,0.702,0.774,0.676,0.714,(-0.9637)+(0.0478)Ser+(-0.1585)Asn+(-0.0043)Thr+(0.0158)Orn+(-0.0166)Lys+(0.0589)Phe;0.731,0.778,0.717,0.706,0.659,0.824,0.788,0.744,(-1.7778)+(0.0362)Ser+(-0.0151)Thr+(-0.0121)Ala+(-0.0230)Arg+(0.0087)Orn+(0.0545)Ile;0.731,0.775,0.794,0.810,0.761,0.837,0.791,0.800,(1.4433)+(0.0446)Ser+(-0.1371)Asn+(-0.0067)Gly+(0.0038)Gln+(-0.0054)Ala+(-0.0146)Arg;0.731,0.772,0.779,0.792,0.764,0.821,0.745,0.780,(2.5361)+(-0.1051)Asn+(0.0060)Gly+(-0.0088)Ala+(-0.0880)Cit+(0.0043)Arg+(0.0721)Phe;0.731,0.766,0.768,0.769,0.719,0.838,0.816,0.786,(5.2106)+(-0.1284)Asn+(-0.0069)Ala+(0.0102)Pro+(-0.0439)Val+(0.0370)Orn+(0.0577)Leu;0.731,0.769,0.721,0.717,0.674,0.765,0.800,0.739,(0.6021)+(0.0004)Gly+(-0.0111)Thr+(-0.0122)Lys+(0.1511)Ile+(-0.0911)Leu+(0.0408)Phe;0.731,0.781,0.751,0.783,0.748,0.843,0.607,0.745,(0.5202)+(0.0312)Ser+(0.0010)Gln+(0.0090)Thr+(0.0052)Tyr+(-0.0048)Val+(-0.2765)Met;0.731,0.773,0.778,0.806,0.768,0.749,0.746,0.767,(-0.6539)+(0.0004)Gly+(0.0051)Gln+(-0.0254)Tyr+(-0.2798)Met+(-0.0089)Lys+(0.1001)Phe;0.731,0.770,0.744,0.730,0.745,0.787,0.746,0.752,(2.4418)+(-0.0178)Asn+(0.0020)Gly+(-0.2395)Met+(0.0130)Orn+(-0.0112)Lys+(0.0545)Ile;0.731,0.782,0.740,0.764,0.742,0.837,0.601,0.736,(0.9142)+(0.0307)Ser+(0.0063)Thr+(-0.0060)Val+(-0.2463)Met+(0.0220)Orn+(-0.0047)Lys;0.731,0.775,0.750,0.755,0.747,0.728,0.758,0.747,(1.1378)+(-0.0209)Asn+(-0.0074)Arg+(-0.0290)Tyr+(-0.2640)Met+(0.0404)Ile+(0.0751)Phe;0.731,0.773,0.757,0.774,0.753,0.809,0.682,0.754,(1.2459)+(0.0366)Ser+(-0.1596)Asn+(0.0047)Gln+(-0.0022)Thr+(-0.0766)Cit+(-0.0025)Leu;0.731,0.770,0.813,0.830,0.758,0.825,0.872,0.821,(2.3781)+(-0.1603)Asn+(0.0055)Gln+(-0.0053)Ala+(-0.0393)Val+(0.0491)Leu+(0.0669)Phe;0.731,0.770,0.760,0.782,0.698,0.792,0.812,0.771,(2.1310)+(-0.0918)Asn+(0.0021)Gly+(-0.0092)Ala+(-0.0494)Tyr+(0.0410)Ile+(0.0558)Phe;0.73

1,0.768,0.735,0.716,0.702,0.821,0.796,0.759,(0.6797)+(0.0045)Gly+(-0.0167)Ala+(-0.1078)Cit+(0.0073)Pro+(0.0531)Ile+(0.0221)Phe;0.731,0.781,0.762,0.778,0.732,0.847,0.723,0.770,(1.3826)+(0.0363)Ser+(-0.1360)Asn+(0.0018)Gln+(-0.0058)Ala+(0.0237)Orn+(-0.0096)Lys;0.731,0.770,0.732,0.733,0.700,0.781,0.760,0.743,(1.1891)+(-0.0028)Thr+(-0.0303)Arg+(-0.0058)Lys+(0.1593)Ile+(-0.0989)Leu+(0.0476)Phe;0.731,0.774,0.746,0.777,0.732,0.711,0.720,0.735,(-1.1095)+(0.0008)Gly+(0.0040)Gln+(0.0079)Pro+(-0.0321)Tyr+(-0.3260)Met+(0.0968)Phe;0.731,0.769,0.724,0.709,0.730,0.769,0.715,0.731,(2.1529)+(0.0195)Thr+(0.0005)Pro+(-0.3090)Met+(0.0040)Orn+(-0.0138)Lys+(0.0589)Ile;0.731,0.769,0.784,0.801,0.800,0.806,0.687,0.774,(2.7296)+(-0.0829)Asn+(0.0070)Gln+(0.0226)Thr+(-0.0806)Cit+(-0.2311)Met+(0.0042)Leu;0.731,0.774,0.738,0.731,0.756,0.777,0.692,0.739,(2.9577)+(-0.0265)Asn+(0.0053)Gly+(-0.0753)Cit+(-0.0094)Tyr+(-0.2186)Met+(0.0581)Ile;0.731,0.771,0.767,0.748,0.785,0.851,0.721,0.776,(4.1683)+(0.0058)Thr+(-0.0105)Ala+(-0.1270)Cit+(0.0623)Orn+(-0.0182)Lys+(0.0059)Leu;0.731,0.770,0.726,0.732,0.736,0.786,0.647,0.725,(2.1128)+(0.0405)Ser+(-0.1402)Asn+(-0.0030)Thr+(-0.0698)Cit+(0.0058)Pro+(-0.0051)Leu;0.731,0.769,0.783,0.811,0.735,0.816,0.786,0.787,(4.4057)+(-0.1760)Asn+(0.0052)Gln+(0.0197)Thr+(-0.0296)Tyr+(-0.0430)Val+(0.0617)Leu;0.731,0.769,0.779,0.814,0.765,0.738,0.750,0.767,(-0.4502)+(-0.0697)Asn+(0.0013)Gly+(0.0062)Gln+(-0.0311)Tyr+(-0.2393)Met+(0.0952)Phe;0.731,0.768,0.742,0.732,0.784,0.812,0.628,0.739,(3.7265)+(0.0024)Gly+(-0.1005)Cit+(0.0059)Pro+(-0.1946)Met+(0.0489)Orn+(-0.0092)Lys;0.731,0.776,0.731,0.735,0.725,0.712,0.749,0.730,(0.2849)+(0.0045)Pro+(-0.0314)Tyr+(-0.3120)Met+(0.0029)Orn+(0.0367)Ile+(0.0764)Phe;0.731,0.778,0.768,0.773,0.784,0.833,0.677,0.767,(2.9976)+(0.0035)Gln+(-0.0925)Cit+(0.0085)Pro+(-0.0112)Val+(-0.2206)Met+(0.0461)Orn;0.731,0.774,0.791,0.789,0.802,0.845,0.733,0.792,(2.8861)+(0.0041)Gln+(-0.0072)Ala+(-0.1

087)Cit+(-0.0037)Arg+(-0.1587)Met+(0.0507)Orn;0.731,0.773,0.783,0.779,0.736,0.841,0.851,0.802,(2.1923)+(-0.0820)Asn+(0.0028)Gly+(-0.0105)Ala+(-0.0142)Lys+(0.0476)Ile+(0.0373)Phe;0.731,0.770,0.797,0.824,0.787,0.799,0.743,0.788,(1.3466)+(-0.1629)Asn+(0.0044)Gly+(0.0068)Gln+(-0.0770)Cit+(-0.0169)Val+(0.0853)Phe;0.731,0.767,0.699,0.677,0.690,0.783,0.716,0.716,(0.2058)+(-0.0006)Gln+(-0.1099)Cit+(0.0281)Orn+(0.1511)Ile+(-0.0983)Leu+(0.0404)Phe;0.731,0.773,0.741,0.760,0.741,0.729,0.702,0.733,(0.9355)+(-0.0124)Arg+(0.0076)Pro+(-0.0350)Tyr+(-0.2719)Met+(0.0161)Orn+(0.0895)Phe;0.731,0.777,0.697,0.692,0.696,0.761,0.664,0.703,(-1.4304)+(0.0476)Ser+(-0.1721)Asn+(-0.0221)Arg+(-0.0011)Pro+(0.0236)Ile+(0.0425)Phe;0.731,0.784,0.726,0.730,0.772,0.725,0.618,0.711,(0.5987)+(0.0312)Thr+(-0.0751)Cit+(-0.0084)Arg+(0.0062)Pro+(-0.3997)Met+(0.1005)Phe;0.731,0.777,0.793,0.822,0.750,0.832,0.780,0.796,(2.5328)+(0.0440)Ser+(-0.1479)Asn+(-0.0083)Gly+(0.0042)Gln+(-0.0250)Tyr+(-0.0094)Val;0.731,0.774,0.737,0.741,0.750,0.814,0.644,0.737,(2.4630)+(0.0408)Ser+(-0.1225)Asn+(-0.0705)Cit+(0.0010)Arg+(-0.0099)Lys+(0.0044)Leu;0.731,0.773,0.761,0.787,0.737,0.836,0.689,0.762,(2.0814)+(0.0341)Ser+(-0.1655)Asn+(0.0021)Gln+(-0.0025)Thr+(-0.0144)Val+(0.0289)Orn;0.731,0.773,0.738,0.749,0.735,0.814,0.658,0.739,(3.2658)+(0.0394)Ser+(-0.1372)Asn+(-0.0602)Cit+(0.0092)Pro+(-0.0106)Val+(-0.0035)Lys;0.731,0.773,0.760,0.780,0.759,0.815,0.668,0.755,(1.3526)+(0.0362)Ser+(-0.1566)Asn+(0.0049)Gln+(-0.0723)Cit+(-0.0073)Arg+(-0.0028)Leu;0.731,0.778,0.780,0.801,0.757,0.836,0.728,0.781,(1.6587)+(0.0454)Ser+(-0.0072)Gly+(-0.0019)Ala+(-0.0116)Arg+(-0.0030)Val+(-0.1970)Met;0.730,0.770,0.724,0.718,0.708,0.817,0.706,0.737,(2.6213)+(0.0032)Gly+(-0.0751)Cit+(-0.0122)Arg+(-0.0086)Lys+(0.1592)Ile+(-0.0844)Leu;0.730,0.772,0.778,0.792,0.773,0.829,0.717,0.778,(4.7238)+(0.0037)Gly+(-0.0083)Ala+(-0.0726)Cit+(0.0165)Pro+(-0.0036)Val+(-0.1579)Met;0.730,0.774,0.726,0.760,0.722,

0.787,0.600,0.717,(1.9688)+(0.0377)Ser+(-0.1304)Asn+(0.0012)Thr+(-0.0168)Arg+(-0.0369)Tyr+(0.0252)Orn;0.730,0.773,0.738,0.761,0.740,0.716,0.689,0.727,(0.5935)+(0.0026)Gly+(-0.0105)Arg+(0.0086)Pro+(-0.0300)Tyr+(-0.2889)Met+(0.0977)Phe;0.730,0.774,0.752,0.793,0.741,0.818,0.621,0.743,(3.4518)+(0.0348)Ser+(-0.1309)Asn+(0.0086)Thr+(-0.0143)Arg+(-0.0193)Tyr+(-0.0093)Val;0.730,0.778,0.701,0.719,0.699,0.780,0.598,0.699,(-0.2190)+(0.0380)Ser+(-0.0003)Gln+(0.0099)Pro+(-0.0079)Tyr+(-0.2932)Met+(0.0113)Orn;0.730,0.768,0.797,0.808,0.781,0.834,0.772,0.799,(2.9695)+(0.0059)Gln+(-0.0086)Ala+(-0.0798)Cit+(0.0147)Pro+(-0.1849)Met+(-0.0020)Lys;0.730,0.767,0.721,0.708,0.726,0.768,0.712,0.729,(2.0637)+(0.0008)Gly+(0.0198)Thr+(0.0006)Pro+(-0.3126)Met+(-0.0133)Lys+(0.0604)Ile;0.730,0.776,0.716,0.726,0.724,0.794,0.618,0.716,(-0.3429)+(0.0378)Ser+(0.0004)Gln+(-0.2627)Met+(0.0171)Orn+(-0.0093)Lys+(0.0113)Leu;0.730,0.772,0.774,0.783,0.770,0.825,0.724,0.776,(4.3253)+(0.0040)Gly+(-0.0091)Ala+(-0.0822)Cit+(0.0053)Arg+(0.0162)Pro+(-0.1691)Met;0.730,0.768,0.774,0.791,0.787,0.750,0.720,0.762,(1.6572)+(-0.0423)Asn+(-0.0119)Arg+(-0.2299)Met+(0.0239)Orn+(-0.0147)Leu+(0.0907)Phe;0.730,0.776,0.728,0.713,0.669,0.822,0.826,0.757,(-1.4279)+(0.0429)Ser+(-0.0051)Gly+(-0.0130)Thr+(-0.0120)Ala+(-0.0213)Arg+(0.0550)Ile;0.730,0.768,0.764,0.787,0.780,0.751,0.679,0.749,(-1.3911)+(0.0041)Gly+(0.0060)Gln+(-0.0841)Cit+(-0.3209)Met+(-0.0060)Leu+(0.1080)Phe;0.730,0.774,0.723,0.721,0.700,0.779,0.735,0.734,(1.1583)+(-0.0336)Arg+(0.0126)Orn+(-0.0077)Lys+(0.1555)Ile+(-0.0980)Leu+(0.0442)Phe;0.730,0.777,0.764,0.787,0.740,0.787,0.737,0.763,(2.1249)+(-0.1207)Asn+(0.0030)Gly+(0.0068)Gln+(-0.0870)Cit+(-0.0468)Tyr+(0.0407)Ile;0.730,0.773,0.659,0.669,0.637,0.722,0.636,0.666,(-2.0358)+(0.0343)Ser+(-0.0112)Thr+(-0.0869)Cit+(-0.0767)Tyr+(0.0351)Ile+(0.0548)Phe;0.730,0.772,0.743,0.764,0.738,0.717,0.721,0.735,(1.3623)+(-0.0435)Asn+(0.0071)Pro+(-0.0390)Tyr+(-0.2372)Met

+(0.0150)Orn+(0.0877)Phe;0.730,0.770,0.777,0.788,0.792,0.807,0.696,0.771,(4.9236)+(-0.0491)Asn+(0.0269)Thr+(-0.0058)Ala+(-0.0764)Cit+(-0.1949)Met+(0.0108)Leu;0.730,0.778,0.776,0.811,0.760,0.856,0.658,0.771,(0.7847)+(0.0330)Ser+(0.0023)Gln+(-0.0024)Ala+(-0.0136)Arg+(-0.0028)Val+(-0.2057)Met;0.730,0.775,0.648,0.626,0.610,0.758,0.706,0.675,(-1.8433)+(0.0248)Ser+(-0.0046)Gln+(-0.0074)Pro+(0.1576)Ile+(-0.0971)Leu+(0.0436)Phe;0.730,0.774,0.768,0.788,0.772,0.783,0.696,0.760,(1.1618)+(0.0055)Gly+(-0.0055)Ala+(-0.0771)Cit+(-0.0130)Tyr+(-0.2259)Met+(0.1089)Phe;0.730,0.769,0.738,0.748,0.697,0.790,0.762,0.749,(0.1039)+(0.0027)Gln+(-0.0068)Thr+(-0.0356)Arg+(0.1646)Ile+(-0.1048)Leu+(0.0434)Phe;0.730,0.771,0.773,0.796,0.780,0.754,0.712,0.761,(-1.1670)+(0.0012)Gly+(0.0050)Gln+(-0.0183)Arg+(-0.3256)Met+(0.0112)Orn+(0.0871)Phe;0.730,0.768,0.747,0.746,0.745,0.764,0.739,0.748,(0.7414)+(-0.0537)Asn+(0.0044)Gln+(0.0169)Thr+(0.0006)Pro+(-0.3156)Met+(0.0472)Ile;0.730,0.765,0.690,0.671,0.682,0.781,0.693,0.707,(-0.4135)+(0.0019)Gly+(-0.1136)Cit+(0.0261)Orn+(0.1524)Ile+(-0.0986)Leu+(0.0412)Phe;0.730,0.777,0.695,0.688,0.698,0.758,0.661,0.701,(-1.4313)+(0.0473)Ser+(-0.1734)Asn+(-0.0228)Arg+(0.0045)Orn+(0.0209)Ile+(0.0414)Phe;0.730,0.773,0.702,0.718,0.717,0.809,0.553,0.699,(2.3065)+(0.0205)Ser+(-0.0018)Gln+(-0.1040)Cit+(-0.0476)Tyr+(-0.0097)Val+(0.0523)Orn;0.730,0.771,0.726,0.723,0.671,0.774,0.816,0.746,(-0.0520)+(-0.0165)Thr+(-0.0065)Pro+(0.0081)Orn+(0.1651)Ile+(-0.1017)Leu+(0.0385)Phe;0.730,0.782,0.746,0.753,0.706,0.843,0.741,0.761,(1.8241)+(0.0397)Ser+(-0.1245)Asn+(-0.0087)Ala+(0.0119)Pro+(-0.0083)Lys+(0.0015)Leu;0.730,0.778,0.705,0.692,0.704,0.752,0.708,0.714,(-1.1180)+(0.0522)Ser+(-0.1694)Asn+(-0.0039)Gly+(-0.0215)Arg+(0.0204)Ile+(0.0403)Phe;0.730,0.771,0.708,0.741,0.685,0.728,0.657,0.703,(-0.6564)+(0.0381)Ser+(-0.0076)Gly+(-0.0741)Cit+(-0.0803)Tyr+(-0.0144)Leu+(0.0893)Phe;0.730,0.778,0.722,0.720,0.724,0.759,0.697,0.725,(-0

.6769)+(0.0515)Ser+(-0.1709)Asn+(-0.0045)Gly+(-0.0214)Arg+(0.0100)Orn+(0.0485)Phe;0.730,0.773,0.777,0.788,0.733,0.840,0.797,0.789,(5.4720)+(-0.1196)Asn+(-0.0040)Ala+(-0.0194)Tyr+(-0.0416)Val+(0.0436)Orn+(0.0589)Leu;0.730,0.772,0.756,0.775,0.745,0.822,0.684,0.757,(2.2749)+(0.0359)Ser+(-0.1649)Asn+(0.0044)Gln+(-0.0672)Cit+(0.0086)Pro+(-0.0120)Val;0.730,0.768,0.755,0.751,0.779,0.742,0.722,0.748,(1.6080)+(-0.0673)Cit+(0.0064)Arg+(0.0072)Pro+(-0.2851)Met+(-0.0078)Lys+(0.0935)Phe;0.730,0.775,0.730,0.727,0.702,0.793,0.753,0.744,(1.0753)+(-0.0042)Thr+(-0.0695)Cit+(-0.0187)Arg+(0.1642)Ile+(-0.1016)Leu+(0.0536)Phe;0.730,0.775,0.690,0.687,0.615,0.802,0.776,0.720,(-0.7499)+(0.0358)Ser+(-0.0026)Gln+(-0.0121)Thr+(-0.0104)Ala+(-0.0373)Tyr+(0.0613)Ile;0.730,0.777,0.701,0.710,0.702,0.775,0.618,0.702,(-0.2568)+(0.0410)Ser+(0.0098)Pro+(-0.0042)Tyr+(-0.2874)Met+(-0.0062)Lys+(0.0085)Leu;0.730,0.774,0.757,0.756,0.741,0.791,0.769,0.764,(1.2450)+(0.0043)Gln+(-0.0141)Tyr+(-0.2534)Met+(0.0095)Orn+(-0.0133)Lys+(0.0573)Ile;0.730,0.773,0.783,0.775,0.739,0.841,0.854,0.802,(2.6115)+(-0.0893)Asn+(0.0102)Thr+(-0.0107)Ala+(-0.0162)Lys+(0.0445)Ile+(0.0365)Phe;0.730,0.777,0.783,0.812,0.752,0.849,0.720,0.783,(1.3938)+(0.0366)Ser+(-0.1293)Asn+(0.0033)Gln+(-0.0049)Ala+(-0.0123)Arg+(-0.0046)Lys;0.730,0.773,0.745,0.764,0.752,0.723,0.692,0.733,(-0.0818)+(0.0021)Gly+(0.0080)Pro+(-0.3287)Met+(0.0118)Orn+(-0.0142)Leu+(0.0971)Phe;0.730,0.773,0.757,0.756,0.780,0.825,0.666,0.757,(4.3058)+(-0.0875)Cit+(-0.0034)Arg+(0.0086)Pro+(-0.0117)Val+(-0.1946)Met+(0.0516)Orn;0.730,0.771,0.776,0.791,0.793,0.804,0.686,0.768,(2.7722)+(-0.0790)Asn+(0.0068)Gln+(0.0211)Thr+(-0.0810)Cit+(0.0064)Pro+(-0.2426)Met;0.730,0.772,0.780,0.806,0.756,0.768,0.768,0.774,(-0.6141)+(0.0038)Gln+(-0.0052)Ala+(-0.0239)Tyr+(-0.2634)Met+(0.0138)Orn+(0.0934)Phe;0.730,0.766,0.749,0.760,0.712,0.808,0.754,0.758,(1.5300)+(0.0034)Gln+(-0.0330)Arg+(-0.

0057)Pro+(-0.0059)Lys+(0.1686)Ile+(-0.0933)Leu;0.730,0.781,0.692,0.674,0.690,0.795,0.669,0.707,(0.0149)+(0.0454)Ser+(-0.1263)Asn+(-0.0148)Arg+(0.0137)Orn+(-0.0177)Lys+(0.0417)Ile;0.730,0.771,0.770,0.747,0.784,0.852,0.740,0.781,(4.1510)+(-0.0103)Ala+(-0.1299)Cit+(0.0064)Arg+(0.0642)Orn+(-0.0182)Lys+(0.0065)Leu;0.730,0.771,0.727,0.724,0.673,0.773,0.814,0.746,(-0.1097)+(0.0006)Gly+(-0.0157)Thr+(-0.0063)Pro+(0.1668)Ile+(-0.1018)Leu+(0.0411)Phe;0.730,0.771,0.771,0.789,0.715,0.798,0.817,0.780,(2.6058)+(-0.0748)Asn+(-0.0089)Ala+(-0.0095)Arg+(-0.0492)Tyr+(0.0409)Ile+(0.0556)Phe;0.730,0.769,0.777,0.767,0.787,0.859,0.722,0.784,(3.3282)+(0.0012)Gly+(0.0025)Gln+(-0.0099)Ala+(-0.1277)Cit+(0.0626)Orn+(-0.0165)Lys;0.730,0.776,0.665,0.621,0.722,0.797,0.566,0.676,(-0.6022)+(0.0354)Ser+(-0.0018)Gln+(-0.1217)Cit+(0.0490)Orn+(-0.0330)Lys+(0.0543)Phe;0.730,0.774,0.691,0.736,0.623,0.703,0.704,0.692,(-0.7475)+(0.0381)Ser+(-0.0112)Gly+(0.0079)Pro+(-0.0854)Tyr+(-0.0164)Val+(0.0826)Phe;0.730,0.777,0.755,0.749,0.767,0.794,0.720,0.758,(0.7344)+(0.0034)Gly+(0.0054)Gln+(-0.0830)Cit+(-0.0020)Arg+(-0.2942)Met+(0.0586)Ile;0.730,0.779,0.718,0.731,0.732,0.796,0.599,0.714,(-0.2913)+(0.0364)Ser+(0.0007)Gln+(0.0106)Thr+(-0.2953)Met+(-0.0087)Lys+(0.0142)Leu;0.730,0.778,0.724,0.690,0.761,0.824,0.664,0.735,(1.1101)+(0.0396)Ser+(-0.0056)Gly+(-0.0112)Thr+(-0.1088)Cit+(0.0539)Orn+(-0.0238)Lys;0.730,0.772,0.747,0.731,0.751,0.781,0.754,0.754,(2.6408)+(-0.0068)Arg+(0.0016)Pro+(-0.2483)Met+(0.0152)Orn+(-0.0108)Lys+(0.0518)Ile;0.730,0.771,0.788,0.796,0.789,0.845,0.720,0.788,(4.1727)+(-0.1419)Asn+(0.0054)Gln+(-0.0992)Cit+(0.0048)Pro+(-0.0170)Val+(0.0546)Orn;0.730,0.773,0.749,0.761,0.700,0.836,0.761,0.764,(1.0667)+(0.0393)Ser+(-0.1398)Asn+(0.0015)Gln+(-0.0055)Thr+(-0.0089)Ala+(0.0116)Pro;0.730,0.778,0.751,0.760,0.746,0.796,0.704,0.751,(0.4233)+(0.0493)Ser+(-0.0071)Gly+(-0.0110)Arg+(-0.0028)Tyr+(-0.2529)Met+(0.0089)Leu;0.730,0.768,0.761,0.775,0.779,0

.744,0.696,0.748,(0.9053)+(-0.0399)Asn+(0.0030)Gly+(-0.0112)Arg+(-0.2637)Met+(0.0163)Orn+(0.0833)Phe;0.730,0.776,0.772,0.805,0.736,0.849,0.705,0.774,(2.9493)+(0.0365)Ser+(-0.1265)Asn+(-0.0030)Ala+(-0.0124)Tyr+(-0.0067)Val+(-0.0007)Lys;0.730,0.773,0.756,0.781,0.754,0.730,0.713,0.744,(-0.8917)+(0.0067)Gln+(-0.0777)Cit+(0.0077)Pro+(-0.0329)Tyr+(-0.3051)Met+(0.1034)Phe;0.730,0.770,0.763,0.764,0.778,0.831,0.680,0.763,(5.6084)+(-0.1279)Asn+(0.0076)Thr+(-0.0951)Cit+(0.0050)Pro+(-0.0174)Val+(0.0569)Orn;0.730,0.770,0.750,0.757,0.729,0.759,0.769,0.754,(3.4080)+(-0.1966)Asn+(0.0025)Gly+(0.0201)Thr+(-0.0485)Val+(0.0557)Leu+(0.0722)Phe;0.730,0.768,0.718,0.714,0.714,0.764,0.702,0.724,(2.4514)+(0.0001)Gly+(0.0221)Thr+(-0.0197)Tyr+(-0.2847)Met+(-0.0131)Lys+(0.0622)Ile;0.730,0.776,0.698,0.691,0.697,0.768,0.667,0.706,(-0.9064)+(0.0469)Ser+(-0.1637)Asn+(0.0017)Pro+(0.0135)Orn+(-0.0179)Lys+(0.0577)Phe;0.730,0.772,0.738,0.754,0.714,0.783,0.714,0.741,(2.0356)+(0.0476)Ser+(-0.1369)Asn+(-0.0077)Gly+(-0.0010)Thr+(-0.0445)Tyr+(0.0239)Orn;0.730,0.776,0.696,0.718,0.701,0.806,0.553,0.694,(1.7629)+(0.0185)Ser+(-0.1028)Cit+(0.0065)Pro+(-0.0559)Tyr+(-0.0112)Val+(0.0473)Orn;0.730,0.767,0.799,0.813,0.781,0.840,0.769,0.801,(3.1562)+(0.0057)Gln+(-0.0080)Ala+(-0.0755)Cit+(0.0154)Pro+(-0.0041)Val+(-0.1859)Met;0.730,0.778,0.762,0.784,0.761,0.731,0.729,0.751,(-1.1468)+(0.0039)Gln+(0.0077)Pro+(-0.3465)Met+(0.0081)Orn+(-0.0140)Leu+(0.0961)Phe;0.730,0.773,0.728,0.732,0.726,0.719,0.729,0.726,(-0.2477)+(0.0029)Gly+(-0.0252)Tyr+(-0.3214)Met+(0.0006)Orn+(0.0439)Ile+(0.0774)Phe;0.730,0.772,0.722,0.746,0.731,0.710,0.646,0.708,(0.5342)+(-0.0001)Gly+(0.0298)Thr+(-0.0368)Tyr+(-0.3237)Met+(-0.0121)Lys+(0.1134)Phe;0.730,0.770,0.785,0.808,0.800,0.812,0.674,0.774,(2.8901)+(-0.0864)Asn+(0.0011)Gly+(0.0069)Gln+(0.0217)Thr+(-0.0800)Cit+(-0.2156)Met;0.730,0.773,0.750,0.750,0.757,0.812,0.689,0.752,(2.8664)+(0.0449)Ser+(-0.1227)Asn+(-0.0045)Gly+(0.0031)Thr+(-0

.0630)Cit+(-0.0096)Lys;0.730,0.772,0.742,0.738,0.714,0.824,0.753,0.757,(3.2329)+(-0.0712)Cit+(-0.0098)Arg+(-0.0052)Pro+(-0.0079)Lys+(0.1652)Ile+(-0.0854)Leu;0.730,0.772,0.776,0.807,0.762,0.740,0.751,0.765,(-0.2384)+(-0.0701)Asn+(0.0058)Gln+(-0.0351)Tyr+(-0.2316)Met+(0.0120)Orn+(0.0899)Phe;0.730,0.771,0.716,0.705,0.757,0.840,0.573,0.719,(1.6931)+(0.0258)Ser+(-0.1045)Cit+(-0.0077)Arg+(-0.0077)Val+(0.0543)Orn+(-0.0203)Lys;0.730,0.769,0.761,0.779,0.703,0.789,0.812,0.771,(2.4088)+(-0.0901)Asn+(-0.0091)Ala+(-0.0527)Tyr+(0.0139)Orn+(0.0357)Ile+(0.0525)Phe;0.730,0.769,0.776,0.778,0.773,0.789,0.769,0.777,(0.9217)+(-0.0392)Asn+(0.0059)Gln+(-0.0145)Arg+(-0.2609)Met+(0.0062)Orn+(0.0466)Ile;0.730,0.772,0.765,0.788,0.747,0.765,0.745,0.761,(0.5366)+(0.0014)Gly+(-0.0053)Ala+(-0.0231)Tyr+(-0.2426)Met+(0.0178)Orn+(0.0931)Phe;0.730,0.765,0.728,0.724,0.743,0.754,0.687,0.727,(2.3142)+(-0.0238)Asn+(0.0229)Thr+(-0.0163)Arg+(-0.3077)Met+(0.0023)Orn+(0.0504)Ile;0.730,0.782,0.749,0.774,0.755,0.844,0.602,0.744,(1.2351)+(0.0330)Ser+(-0.0172)Arg+(0.0018)Tyr+(-0.0074)Val+(-0.2192)Met+(0.0277)Orn;0.730,0.776,0.694,0.704,0.695,0.692,0.667,0.690,(-0.8269)+(0.0011)Gly+(0.0245)Thr+(-0.0359)Tyr+(-0.3887)Met+(0.0427)Ile+(0.0868)Phe;0.730,0.774,0.717,0.715,0.718,0.748,0.697,0.720,(-0.6725)+(0.0521)Ser+(-0.1694)Asn+(-0.0044)Gly+(-0.0206)Arg+(0.0015)Pro+(0.0510)Phe;0.730,0.773,0.771,0.776,0.749,0.796,0.784,0.776,(3.9151)+(-0.1459)Asn+(-0.0117)Arg+(-0.0462)Val+(0.0399)Orn+(0.0488)Leu+(0.0600)Phe;0.730,0.772,0.769,0.786,0.732,0.829,0.758,0.776,(2.8019)+(0.0450)Ser+(-0.1269)Asn+(-0.0072)Gly+(0.0048)Thr+(-0.0042)Ala+(-0.0283)Tyr;0.730,0.772,0.765,0.781,0.775,0.731,0.727,0.753,(1.0814)+(-0.0089)Arg+(0.0086)Pro+(-0.2952)Met+(-0.0028)Lys+(-0.0116)Leu+(0.0978)Phe;0.730,0.770,0.745,0.732,0.785,0.826,0.637,0.745,(4.3006)+(-0.0950)Asn+(0.0038)Gly+(-0.1164)Cit+(0.0056)Arg+(0.0563)Orn+(-0.0148)Lys;0.730,0.769,0.756,0.772,0.783,0.754,0.661,0.742,(1.393

4)+(-0.0471)Asn+(0.0063)Gly+(-0.0734)Cit+(-0.2322)Met+(-0.0073)Leu+(0.1067)Phe;0.730,0.768,0.762,0.765,0.742,0.797,0.767,0.768,(3.8358)+(0.0013)Gly+(0.0106)Pro+(0.0049)Tyr+(-0.0389)Val+(-0.2678)Met+(0.0610)Leu;0.730,0.775,0.732,0.750,0.713,0.772,0.698,0.733,(2.3875)+(0.0497)Ser+(-0.1169)Asn+(-0.0075)Gly+(-0.0149)Arg+(0.0081)Pro+(-0.0449)Tyr;0.730,0.771,0.693,0.672,0.678,0.742,0.743,0.709,(-1.3227)+(0.0508)Ser+(-0.1896)Asn+(-0.0043)Gly+(-0.0022)Pro+(0.0211)Ile+(0.0348)Phe;0.730,0.771,0.791,0.787,0.740,0.846,0.872,0.811,(2.3094)+(-0.0874)Asn+(0.0041)Gln+(-0.0111)Ala+(0.0054)Pro+(-0.0140)Lys+(0.0472)Ile;0.730,0.778,0.760,0.773,0.752,0.801,0.713,0.760,(-0.1635)+(0.0472)Ser+(-0.0074)Gly+(0.0023)Gln+(-0.0133)Arg+(-0.2648)Met+(0.0078)Leu;0.730,0.775,0.743,0.748,0.741,0.731,0.741,0.740,(0.7101)+(-0.0104)Arg+(-0.0282)Tyr+(-0.2855)Met+(0.0076)Orn+(0.0396)Ile+(0.0733)Phe;0.730,0.771,0.775,0.786,0.772,0.825,0.717,0.775,(4.3953)+(0.0040)Gly+(-0.0090)Ala+(-0.0776)Cit+(0.0161)Pro+(-0.1656)Met+(0.0008)Lys;0.730,0.770,0.727,0.738,0.691,0.785,0.734,0.737,(0.0514)+(0.0006)Gly+(0.0019)Gln+(-0.0396)Arg+(0.1625)Ile+(-0.1045)Leu+(0.0435)Phe;0.730,0.762,0.772,0.793,0.780,0.745,0.722,0.760,(1.1734)+(-0.0443)Asn+(0.0031)Gly+(-0.2465)Met+(-0.0028)Lys+(-0.0087)Leu+(0.0983)Phe;0.730,0.776,0.715,0.723,0.724,0.794,0.615,0.714,(-0.2373)+(0.0381)Ser+(-0.0007)Tyr+(-0.2601)Met+(0.0175)Orn+(-0.0092)Lys+(0.0113)Leu;0.730,0.773,0.647,0.652,0.608,0.737,0.651,0.662,(-2.0046)+(0.0364)Ser+(-0.0052)Thr+(-0.0654)Tyr+(-0.0266)Lys+(0.0451)Ile+(0.0546)Phe;0.730,0.771,0.793,0.787,0.746,0.854,0.862,0.812,(2.2419)+(-0.0876)Asn+(0.0040)Gln+(-0.0099)Ala+(0.0141)Orn+(-0.0159)Lys+(0.0481)Ile;0.730,0.766,0.723,0.721,0.701,0.812,0.709,0.736,(-0.8922)+(0.0302)Ser+(-0.0139)Ala+(-0.0848)Cit+(-0.0155)Arg+(0.0110)Pro+(0.0493)Phe;0.730,0.775,0.738,0.775,0.726,0.795,0.621,0.729,(1.3735)+(0.0361)Ser+(-0.1390)Asn+(0.0026)Gln+(-0.0181)Arg+(-0.0368)Tyr+(0.0232)Orn;

0.730,0.771,0.743,0.741,0.732,0.843,0.699,0.754,(1.9193)+(0.0314)Ser+(-0.0111)Ala+(-0.0826)Cit+(-0.0042)Arg+(0.0140)Pro+(-0.0132)Lys;0.730,0.768,0.737,0.759,0.746,0.705,0.679,0.722,(-1.7390)+(0.0005)Gly+(0.0034)Gln+(0.0206)Thr+(-0.4088)Met+(-0.0024)Orn+(0.0952)Phe;0.730,0.776,0.723,0.723,0.720,0.751,0.708,0.725,(-0.7088)+(0.0533)Ser+(-0.1642)Asn+(-0.0045)Gly+(-0.0036)Thr+(-0.0189)Arg+(0.0534)Phe;0.730,0.771,0.740,0.754,0.737,0.815,0.654,0.740,(3.2990)+(0.0396)Ser+(-0.1385)Asn+(-0.0546)Cit+(-0.0070)Arg+(0.0096)Pro+(-0.0118)Val;0.730,0.771,0.633,0.638,0.625,0.704,0.584,0.638,(-1.3517)+(0.0325)Ser+(-0.0024)Gln+(-0.0866)Cit+(-0.0831)Tyr+(0.0347)Ile+(0.0554)Phe;0.730,0.771,0.740,0.750,0.739,0.792,0.678,0.740,(0.8272)+(0.0388)Ser+(-0.1613)Asn+(0.0044)Gln+(-0.0050)Thr+(-0.0785)Cit+(0.

0042)Pro;0.729,0.773,0.754,0.777,0.695,0.781,0.796,0.762,(2.4047)+(-0.1117)Asn+(0.0153)Thr+(-0.0094)Ala+(-0.0608)Tyr+(0.0368)Ile+(0.0605)Phe;0.729,0.772,0.781,0.813,0.770,0.747,0.746,0.769,(-0.6086)+(0.0051)Gln+(-0.0264)Tyr+(-0.2725)Met+(-0.0072)Lys+(-0.0060)Leu+(0.1047)Phe;0.729,0.772,0.776,0.770,0.791,0.832,0.721,0.778,(4.2845)+(-0.0074)Ala+(-0.1095)Cit+(-0.0114)Tyr+(-0.1268)Met+(0.0556)Orn+(0.0036)Leu;0.729,0.770,0.769,0.755,0.786,0.851,0.713,0.777,(4.2432)+(0.0047)Thr+(-0.0099)Ala+(-0.1274)Cit+(0.0027)Arg+(0.0637)Orn+(-0.0169)Lys;0.729,0.775,0.746,0.755,0.701,0.836,0.749,0.760,(1.5912)+(0.0400)Ser+(-0.1328)Asn+(-0.0047)Thr+(-0.0088)Ala+(0.0123)Pro+(-0.0024)Leu;0.729,0.774,0.775,0.791,0.739,0.832,0.767,0.782,(2.8026)+(0.0474)Ser+(-0.1125)Asn+(-0.0072)Gly+(-0.0038)Ala+(-0.0219)Tyr+(-0.0047)Lys;0.729,0.770,0.760,0.786,0.769,0.759,0.675,0.747,(1.1993)+(0.0048)Gly+(-0.0637)Cit+(-0.0162)Tyr+(-0.0109)Val+(-0.2486)Met+(0.1242)Phe;0.729,0.768,0.743,0.742,0.730,0.846,0.701,0.755,(1.9634)+(0.0306)Ser+(-0.0111)Ala+(-0.0847)Cit+(0.0141)Pro+(-0.0010)Val+(-0.0136)Lys;0.729,0.783,0.719,0.738,0.714,0

.815,0.612,0.720,(0.7352)+(0.0347)Ser+(0.0117)Pro+(-0.0094)Val+(-0.2706)Met+(0.0190)Orn+(-0.0028)Lys;0.729,0.775,0.726,0.742,0.720,0.760,0.674,0.724,(-1.5730)+(0.0463)Ser+(-0.1769)Asn+(0.0025)Gln+(-0.0042)Thr+(-0.0209)Arg+(0.0553)Phe;0.729,0.775,0.751,0.771,0.721,0.790,0.733,0.754,(1.5379)+(0.0458)Ser+(-0.1487)Asn+(-0.0081)Gly+(0.0024)Gln+(-0.0457)Tyr+(0.0212)Orn;0.729,0.770,0.765,0.773,0.759,0.827,0.714,0.768,(3.4991)+(0.0449)Ser+(-0.1247)Asn+(-0.0050)Gly+(-0.0530)Cit+(-0.0071)Val+(-0.0039)Lys;0.729,0.777,0.731,0.775,0.670,0.808,0.685,0.735,(-0.8010)+(0.0294)Ser+(-0.0056)Ala+(-0.0517)Tyr+(-0.0089)Val+(-0.0143)Lys+(0.0917)Phe;0.729,0.775,0.753,0.750,0.761,0.790,0.718,0.755,(0.8913)+(0.0031)Gly+(0.0053)Gln+(-0.0836)Cit+(-0.0101)Tyr+(-0.2790)Met+(0.0592)Ile;0.729,0.776,0.769,0.800,0.747,0.855,0.669,0.768,(0.5862)+(0.0328)Ser+(0.0015)Gln+(-0.0026)Ala+(-0.0022)Val+(-0.2176)Met+(-0.0017)Lys;0.729,0.778,0.701,0.698,0.697,0.762,0.675,0.708,(-0.9357)+(0.0485)Ser+(-0.1593)Asn+(-0.0031)Thr+(0.0027)Pro+(-0.0156)Lys+(0.0611)Phe;0.729,0.774,0.710,0.717,0.711,0.752,0.659,0.710,(-1.1072)+(0.0483)Ser+(-0.1674)Asn+(-0.0044)Thr+(-0.0199)Arg+(0.0022)Pro+(0.0548)Phe;0.729,0.769,0.779,0.804,0.763,0.767,0.753,0.772,(1.4901)+(-0.0465)Asn+(0.0028)Gly+(-0.0046)Ala+(-0.0224)Tyr+(-0.1956)Met+(0.0986)Phe;0.729,0.769,0.674,0.711,0.653,0.719,0.590,0.668,(-0.8957)+(0.0273)Ser+(-0.0770)Cit+(0.0071)Pro+(-0.0772)Tyr+(-0.0133)Val+(0.0887)Phe;0.729,0.768,0.722,0.720,0.720,0.761,0.705,0.727,(2.9099)+(-0.0259)Asn+(0.0232)Thr+(-0.0220)Tyr+(-0.2588)Met+(-0.0117)Lys+(0.0592)Ile;0.729,0.779,0.750,0.757,0.746,0.796,0.707,0.751,(0.4632)+(0.0500)Ser+(-0.0070)Gly+(-0.0087)Arg+(-0.2463)Met+(-0.0048)Lys+(0.0112)Leu;0.729,0.773,0.783,0.788,0.809,0.825,0.687,0.777,(2.5793)+(-0.0821)Asn+(0.0023)Gly+(0.0061)Gln+(-0.1044)Cit+(-0.1624)Met+(0.0422)Orn;0.729,0.767,0.732,0.744,0.763,0.734,0.636,0.719,(0.3873)+(0.0061)Gly+(-0.0751)Cit+(0.0088)Pro+(-0.3134)

Met+(-0.0096)Leu+(0.1084)Phe;0.729,0.775,0.739,0.768,0.730,0.714,0.698,0.728,(0.6118)+(0.0093)Pro+(-0.0380)Tyr+(-0.2706)Met+(0.0174)Orn+(-0.0160)Leu+(0.1047)Phe;0.729,0.774,0.796,0.821,0.764,0.836,0.768,0.797,(2.3443)+(0.0448)Ser+(-0.1479)Asn+(-0.0077)Gly+(0.0048)Gln+(-0.0165)Arg+(-0.0117)Val;0.729,0.770,0.786,0.813,0.795,0.812,0.678,0.774,(3.2371)+(-0.0884)Asn+(0.0071)Gln+(0.0228)Thr+(-0.0775)Cit+(-0.0145)Tyr+(-0.1919)Met;0.729,0.781,0.757,0.772,0.769,0.758,0.690,0.747,(-0.5750)+(0.0054)Gln+(-0.0992)Cit+(-0.0353)Tyr+(-0.2710)Met+(0.0342)Orn+(0.0963)Phe;0.729,0.777,0.724,0.748,0.715,0.807,0.622,0.723,(0.5853)+(0.0362)Ser+(0.0006)Gln+(0.0127)Pro+(-0.0080)Val+(-0.2770)Met+(-0.0006)Lys;0.729,0.776,0.725,0.754,0.736,0.710,0.638,0.709,(0.5175)+(0.0294)Thr+(-0.0367)Tyr+(-0.3194)Met+(-0.0107)Lys+(-0.0047)Leu+(0.1173)Phe;0.729,0.772,0.651,0.650,0.659,0.752,0.564,0.656,(-0.3050)+(0.0235)Ser+(-0.1076)Cit+(-0.0001)Pro+(-0.0713)Tyr+(0.0304)Orn+(0.0356)Ile;0.729,0.772,0.779,0.802,0.761,0.829,0.721,0.778,(5.0678)+(-0.0635)Asn+(0.0204)Thr+(-0.0058)Ala+(0.0140)Pro+(-0.0104)Val+(-0.1772)Met;0.729,0.771,0.751,0.753,0.756,0.811,0.694,0.753,(2.7968)+(0.0460)Ser+(-0.1185)Asn+(-0.0045)Gly+(-0.0613)Cit+(-0.0011)Arg+(-0.0087)Lys;0.729,0.780,0.741,0.731,0.790,0.816,0.611,0.737,(3.9488)+(0.0174)Thr+(-0.1020)Cit+(0.0055)Pro+(-0.2398)Met+(0.0439)Orn+(-0.0107)Lys;0.729,0.771,0.744,0.733,0.786,0.823,0.628,0.743,(4.2646)+(-0.0929)Asn+(0.0039)Gly+(-0.1116)Cit+(0.0012)Pro+(0.0550)Orn+(-0.0138)Lys;0.729,0.769,0.785,0.798,0.750,0.852,0.775,0.794,(3.2548)+(0.0441)Ser+(-0.1392)Asn+(-0.0067)Gly+(0.0044)Thr+(-0.0035)Ala+(-0.0091)Val;0.729,0.770,0.781,0.828,0.751,0.755,0.737,0.768,(3.3478)+(-0.1068)Asn+(0.0022)Gly+(-0.0071)Arg+(-0.0468)Tyr+(-0.0161)Val+(0.1019)Phe;0.729,0.778,0.761,0.774,0.729,0.839,0.734,0.769,(1.4361)+(0.0384)Ser+(-0.1395)Asn+(-0.0047)Thr+(-0.0061)Ala+(0.0230)Orn+(-0.0016)Leu;0.729,0.771,0.792,0.802,0.792,0.787,0.768,0.

787,(2.5927)+(-0.0329)Asn+(-0.0054)Ala+(-0.0647)Cit+(-0.1875)Met+(-0.0033)Leu+(0.0971)Phe;0.729,0.774,0.737,0.722,0.759,0.780,0.698,0.740,(2.6471)+(-0.0292)Asn+(0.0056)Gly+(-0.0817)Cit+(0.0060)Arg+(-0.2416)Met+(0.0578)Ile;0.729,0.773,0.756,0.775,0.755,0.810,0.670,0.752,(1.1408)+(0.0371)Ser+(-0.1572)Asn+(0.0049)Gln+(-0.0014)Thr+(-0.0734)Cit+(-0.0069)Arg;0.729,0.777,0.825,0.841,0.786,0.849,0.845,0.830,(3.3420)+(-0.0953)Asn+(0.0004)Gly+(0.0071)Gln+(-0.0412)Val+(-0.1782)Met+(0.0674)Leu;0.729,0.770,0.728,0.736,0.742,0.793,0.634,0.726,(2.2635)+(0.0400)Ser+(-0.1384)Asn+(-0.0658)Cit+(-0.0068)Arg+(0.0059)Pro+(-0.0056)Leu;0.729,0.767,0.776,0.779,0.734,0.846,0.806,0.791,(5.0506)+(-0.1299)Asn+(0.0011)Gly+(-0.0047)Ala+(-0.0439)Val+(0.0409)Orn+(0.0614)Leu;0.729,0.767,0.729,0.725,0.697,0.810,0.749,0.745,(1.0694)+(0.0028)Gly+(0.0022)Gln+(-0.0122)Thr+(-0.0859)Cit+(0.1645)Ile+(-0.0921)Leu;0.729,0.776,0.771,0.772,0.743,0.842,0.777,0.783,(1.9213)+(0.0446)Ser+(-0.1433)Asn+(-0.0061)Gly+(-0.0061)Ala+(0.0216)Orn+(-0.0034)Leu;0.729,0.769,0.785,0.814,0.760,0.766,0.771,0.778,(-0.7954)+(0.0008)Gly+(0.0044)Gln+(-0.0048)Ala+(-0.0208)Tyr+(-0.2713)Met+(0.0983)Phe;0.729,0.770,0.769,0.795,0.752,0.759,0.742,0.762,(0.8484)+(-0.0046)Ala+(-0.0268)Tyr+(-0.2251)Met+(0.0217)Orn+(-0.0091)Leu+(0.0993)Phe;0.729,0.765,0.796,0.810,0.771,0.838,0.777,0.799,(3.2423)+(-0.1070)Asn+(0.0033)Gly+(0.0060)Gln+(-0.0101)Ala+(-0.0894)Cit+(0.0117)Pro;0.729,0.781,0.695,0.678,0.687,0.788,0.686,0.710,(-0.0238)+(0.0467)Ser+(-0.1218)Asn+(-0.0023)Thr+(-0.0128)Arg+(-0.0160)Lys+(0.0456)Ile;0.729,0.774,0.768,0.771,0.752,0.795,0.773,0.773,(1.2129)+(0.0054)Gln+(-0.0102)Arg+(-0.0114)Tyr+(-0.2535)Met+(-0.0103)Lys+(0.0588)Ile;0.729,0.773,0.778,0.766,0.796,0.835,0.729,0.781,(4.0737)+(-0.0077)Ala+(-0.1105)Cit+(0.0013)Arg+(-0.1451)Met+(0.0540)Orn+(0.0040)Leu;0.729,0.771,0.762,0.761,0.794,0.833,0.648,0.759,(4.3239)+(0.0011)Gly+(-0.0984)Cit+(-0.0079)Val+(-0.1560)Met+(0.0576)Or

n+(-0.0058)Lys;0.729,0.769,0.740,0.727,0.744,0.786,0.733,0.747,(2.3606)+(0.0019)Gly+(-0.0074)Arg+(-0.2484)Met+(0.0140)Orn+(-0.0108)Lys+(0.0555)Ile;0.729,0.769,0.783,0.797,0.738,0.809,0.825,0.792,(3.3398)+(-0.1390)Asn+(0.0035)Gly+(-0.0053)Ala+(-0.0388)Val+(0.0497)Leu+(0.0742)Phe;0.729,0.769,0.787,0.790,0.790,0.792,0.766,0.785,(2.1035)+(-0.0056)Ala+(-0.0726)Cit+(0.0078)Arg+(-0.2164)Met+(-0.0057)Lys+(0.0986)Phe;0.729,0.778,0.629,0.626,0.603,0.729,0.620,0.645,(-1.3044)+(0.0389)Ser+(-0.0029)Gln+(-0.0679)Tyr+(-0.0267)Lys+(0.0461)Ile+(0.0585)Phe;0.729,0.777,0.692,0.696,0.601,0.795,0.795,0.722,(-1.3035)+(0.0331)Ser+(-0.0156)Thr+(-0.0122)Ala+(0.0085)Pro+(-0.0409)Tyr+(0.0521)Ile;0.729,0.776,0.683,0.686,0.666,0.756,0.660,0.692,(0.2384)+(0.0385)Ser+(-0.0067)Gly+(-0.0615)Cit+(-0.0163)Arg+(-0.0646)Tyr+(0.0425)Ile;0.729,0.774,0.787,0.788,0.794,0.843,0.728,0.788,(3.0419)+(0.0039)Gln+(-0.0071)Ala+(-0.1115)Cit+(-0.0111)Tyr+(-0.1449)Met+(0.0521)Orn;0.729,0.772,0.790,0.796,0.790,0.786,0.777,0.787,(2.4276)+(-0.0361)Asn+(-0.0058)Ala+(-0.0717)Cit+(0.0072)Arg+(-0.1947)Met+(0.0943)Phe;0.729,0.770,0.722,0.739,0.711,0.744,0.685,0.719,(-0.9945)+(0.0425)Ser+(-0.1967)Asn+(0.0014)Gln+(0.0035)Pro+(-0.0215)Leu+(0.0710)Phe;0.729,0.770,0.707,0.688,0.752,0.838,0.570,0.712,(1.8752)+(0.0263)Ser+(-0.0011)Gln+(-0.1107)Cit+(-0.0072)Val+(0.0560)Orn+(-0.0220)Lys;0.729,0.766,0.778,0.811,0.770,0.742,0.735,0.765,(1.5480)+(-0.0090)Arg+(-0.0207)Tyr+(-0.0139)Val+(-0.2411)Met+(0.0031)Lys+(0.1175)Phe;0.729,0.769,0.771,0.759,0.728,0.836,0.846,0.792,(3.3359)+(-0.0706)Asn+(-0.0112)Ala+(0.0057)Pro+(0.0162)Orn+(-0.0145)Lys+(0.0441)Ile;0.729,0.778,0.733,0.768,0.729,0.794,0.604,0.724,(2.2060)+(0.0372)Ser+(-0.1276)Asn+(-0.0166)Arg+(-0.0339)Tyr+(0.0275)Orn+(-0.0045)Leu;0.729,0.781,0.716,0.727,0.734,0.794,0.595,0.713,(-0.1224)+(0.0372)Ser+(0.0108)Thr+(0.0001)Tyr+(-0.2938)Met+(-0.0085)Lys+(0.0144)Leu;0.729,0.777,0.722,0.734,0.735,0.801,0.602,0.718,(0.1500)+(0.

0383)Ser+(-0.0126)Arg+(-0.2468)Met+(0.0201)Orn+(-0.0068)Lys+(0.0091)Leu;0.729,0.777,0.760,0.757,0.797,0.771,0.681,0.751,(1.2837)+(-0.0895)Cit+(-0.0020)Arg+(-0.2598)Met+(0.0411)Orn+(-0.0122)Leu+(0.0900)Phe;0.729,0.774,0.761,0.761,0.741,0.791,0.779,0.768,(1.2041)+(0.0047)Gln+(0.0019)Pro+(-0.0135)Tyr+(-0.2621)Met+(-0.0119)Lys+(0.0577)Ile;0.729,0.771,0.785,0.815,0.777,0.757,0.740,0.772,(-0.5956)+(0.0060)Gln+(-0.0126)Arg+(-0.0254)Tyr+(-0.2723)Met+(-0.0064)Lys+(0.0997)Phe;0.729,0.769,0.766,0.768,0.779,0.826,0.694,0.767,(5.6378)+(-0.1116)Asn+(-0.0923)Cit+(-0.0028)Arg+(0.0054)Pro+(-0.0169)Val+(0.0595)Orn;0.729,0.774,0.749,0.774,0.766,0.741,0.653,0.734,(1.5815)+(-0.0472)Asn+(0.0060)Gly+(-0.0731)Cit+(-0.0236)Tyr+(-0.2101)Met+(0.1066)Phe;0.729,0.771,0.752,0.775,0.750,0.710,0.727,0.741,(1.6924)+(-0.0335)Asn+(-0.0070)Arg+(0.0081)Pro+(-0.0352)Tyr+(-0.2370)Met+(0.0929)Phe;0.729,0.774,0.762,0.767,0.730,0.811,0.782,0.773,(3.8253)+(-0.0658)Asn+(-0.0214)Arg+(-0.0032)Pro+(0.0006)Lys+(0.1579)Ile+(-0.0885)Leu;0.729,0.774,0.753,0.732,0.764,0.789,0.760,0.761,(3.6081)+(-0.0731)Cit+(0.0108)Arg+(-0.0109)Tyr+(-0.2124)Met+(-0.0111)Lys+(0.0628)Ile;0.729,0.769,0.744,0.742,0.731,0.846,0.704,0.756,(1.8241)+(0.0304)Ser+(0.0004)Gln+(-0.0113)Ala+(-0.0865)Cit+(0.0139)Pro+(-0.0143)Lys;0.729,0.776,0.747,0.764,0.724,0.793,0.715,0.749,(2.3844)+(0.0464)Ser+(-0.1364)Asn+(-0.0079)Gly+(-0.0422)Tyr+(0.0257)Orn+(-0.0050)Leu;0.729,0.
774,0.713,0.728,0.732,0.690,0.646,0.699,(-0.8166)+(0.0017)Gly+(0.0205)Thr+(0.0062)Pro+(-0.4123)Met+(-0.0021)Orn+(0.0954)Phe;0.729,0.771,0.752,0.757,0.783,0.805,0.637,0.745,(4.5687)+(-0.0636)Asn+(0.0029)Gly+(-0.1022)Cit+(-0.0219)Tyr+(-0.1069)Met+(0.0524)Orn;0.729,0.773,0.777,0.780,0.743,0.842,0.794,0.790,(1.2442)+(0.0438)Ser+(-0.1537)Asn+(-0.0063)Gly+(0.0021)Gln+(-0.0066)Ala+(0.0182)Orn;0.729,0.771,0.675,0.697,0.580,0.772,0.749,0.699,(-2.0277)+(0.0252)Ser+(-0.0127)Ala+(0.0070)Pro

+(-0.0653)Tyr+(0.0402)Ile+(0.0415)Phe;0.729,0.778,0.684,0.647,0.725,0.806,0.605,0.696,(-1.2217)+(0.0379)Ser+(-0.0122)Thr+(-0.1210)Cit+(0.0505)Orn+(-0.0298)Lys+(0.0541)Phe;0.729,0.777,0.698,0.725,0.701,0.675,0.637,0.685,(-0.3375)+(0.0247)Thr+(0.0078)Pro+(-0.0421)Tyr+(-0.3710)Met+(0.0008)Orn+(0.1065)Phe;0.729,0.774,0.725,0.760,0.743,0.700,0.618,0.705,(1.3800)+(-0.0521)Asn+(0.0343)Thr+(-0.0190)Arg+(-0.0429)Tyr+(-0.2845)Met+(0.1090)Phe;0.729,0.777,0.777,0.810,0.736,0.846,0.725,0.779,(1.6822)+(0.0352)Ser+(-0.1317)Asn+(0.0031)Gln+(-0.0042)Ala+(-0.0188)Tyr+(-0.0047)Lys;0.729,0.773,0.746,0.745,0.752,0.809,0.694,0.750,(2.6262)+(0.0463)Ser+(-0.1189)Asn+(-0.0044)Gly+(-0.0636)Cit+(-0.0102)Lys+(0.0033)Leu;0.729,0.774,0.796,0.827,0.787,0.838,0.707,0.789,(3.3753)+(-0.1013)Asn+(0.0048)Gln+(0.0162)Thr+(-0.0130)Val+(-0.1711)Met+(0.0249)Orn;0.729,0.773,0.686,0.706,0.596,0.783,0.751,0.709,(-2.1633)+(0.0260)Ser+(-0.0115)Ala+(-0.0627)Tyr+(-0.0023)Orn+(0.0470)Ile+(0.0437)Phe;0.729,0.765,0.738,0.744,0.709,0.805,0.731,0.747,(1.3416)+(0.0025)Gln+(-0.0385)Arg+(-0.0066)Pro+(0.0145)Orn+(0.1710)Ile+(-0.0997)Leu;0.729,0.765,0.768,0.783,0.747,0.829,0.726,0.771,(4.1651)+(-0.0065)Ala+(-0.0129)Arg+(0.0139)Pro+(-0.0107)Val+(-0.1723)Met+(0.0333)Orn;0.729,0.770,0.752,0.745,0.791,0.827,0.632,0.749,(4.5773)+(-0.0927)Asn+(0.0035)Gly+(-0.1107)Cit+(0.0575)Orn+(-0.0113)Lys+(-0.0062)Leu;0.729,0.769,0.751,0.755,0.735,0.828,0.715,0.758,(3.2912)+(0.0015)Gln+(-0.0123)Ala+(-0.1186)Cit+(0.0120)Pro+(-0.0430)Tyr+(0.0520)Orn;0.729,0.765,0.794,0.809,0.787,0.773,0.787,0.789,(1.8550)+(-0.0362)Asn+(-0.0045)Ala+(-0.2118)Met+(-0.0027)Lys+(-0.0051)Leu+(0.0953)Phe;0.729,0.765,0.746,0.732,0.710,0.828,0.800,0.768,(0.2382)+(0.0039)Gly+(0.0012)Gln+(-0.0154)Ala+(-0.1067)Cit+(0.0572)Ile+(0.0242)Phe;0.729,0.779,0.746,0.749,0.739,0.795,0.717,0.750,(0.2054)+(0.0497)Ser+(-0.0072)Gly+(-0.0020)Tyr+(-0.2526)Met+(-0.0067)Lys+(0.0126)Leu;0.729,0.773,0.729,0.749,0.735,0.698,0

.686,0.717,(-1.7802)+(0.0034)Gln+(0.0200)Thr+(0.0059)Pro+(-0.4269)Met+(-0.0054)Orn+(0.0950)Phe;0.729,0.768,0.729,0.746,0.758,0.732,0.618,0.714,(0.3771)+(0.0014)Gly+(0.0297)Thr+(-0.0177)Arg+(-0.3622)Met+(-0.0087)Lys+(0.1032)Phe;0.729,0.776,0.735,0.760,0.743,0.813,0.598,0.728,(0.1768)+(0.0349)Ser+(0.0010)Gln+(-0.0168)Arg+(-0.0015)Tyr+(-0.2463)Met+(0.0198)Orn;0.729,0.772,0.642,0.653,0.659,0.721,0.519,0.638,(-0.6510)+(0.0295)Ser+(-0.0030)Gln+(-0.1091)Cit+(-0.0828)Tyr+(0.0376)Orn+(0.0660)Phe;0.729,0.769,0.792,0.818,0.793,0.762,0.742,0.779,(-0.7986)+(0.0060)Gln+(-0.0141)Arg+(-0.3007)Met+(-0.0045)Lys+(-0.0072)Leu+(0.0979)Phe;0.729,0.772,0.814,0.847,0.798,0.850,0.737,0.808,(3.3563)+(-0.0939)Asn+(0.0057)Gln+(0.0207)Thr+(-0.0024)Ala+(-0.0087)Val+(-0.1722)Met;0.729,0.770,0.794,0.806,0.787,0.782,0.787,0.790,(1.8847)+(-0.0303)Asn+(-0.0048)Ala+(-0.0044)Arg+(-0.2145)Met+(-0.0032)Lys+(0.0915)Phe;0.729,0.770,0.771,0.788,0.781,0.728,0.735,0.758,(1.5673)+(-0.0330)Asn+(-0.0081)Arg+(0.0083)Pro+(-0.2650)Met+(-0.0140)Leu+(0.0965)Phe;0.729,0.768,0.752,0.752,0.777,0.796,0.670,0.749,(4.7342)+(-0.0531)Asn+(-0.0954)Cit+(0.0061)Pro+(-0.0289)Tyr+(-0.1254)Met+(0.0494)Orn;0.728,0.776,0.727,0.741,0.722,0.743,0.689,0.724,(4.2390)+(-0.1012)Asn+(0.0156)Thr+(-0.0748)Cit+(0.0011)Pro+(-0.0565)Tyr+(0.0385)Ile;0.728,0.771,0.764,0.781,0.783,0.807,0.649,0.755,(5.6018)+(-0.0627)Asn+(0.0243)Thr+(-0.0613)Cit+(0.0102)Pro+(-0.0099)Val+(-0.2043)Met;0.728,0.768,0.732,0.748,0.713,0.819,0.668,0.737,(2.4925)+(0.0371)Ser+(-0.1617)Asn+(-0.0043)Thr+(0.0083)Pro+(-0.0172)Val+(0.0283)Orn;0.728,0.779,0.722,0.744,0.715,0.805,0.619,0.721,(0.7540)+(0.0369)Ser+(0.0128)Pro+(-0.0002)Tyr+(-0.0080)Val+(-0.2747)Met+(-0.0003)Lys;0.728,0.772,0.752,0.773,0.754,0.826,0.639,0.748,(3.4632)+(0.0368)Ser+(-0.1377)Asn+(0.0056)Thr+(-0.0569)Cit+(-0.0056)Arg+(-0.0084)Val;0.728,0.770,0.758,0.788,0.765,0.742,0.679,0.744,(-1.2642)+(0.0036)Gly+(0.0063)Gln+(-0.0846)Cit+(-0.0243)Tyr+(-

0.2977)Met+(0.1101)Phe;0.728,0.766,0.728,0.723,0.742,0.753,0.690,0.727,(2.3279)+(-0.0231)Asn+(0.0231)Thr+(-0.0162)Arg+(0.0014)Pro+(-0.3116)Met+(0.0497)Ile;0.728,0.772,0.786,0.803,0.781,0.775,0.761,0.780,(2.7915)+(-0.0353)Asn+(-0.0052)Ala+(-0.0636)Cit+(-0.0218)Tyr+(-0.1609)Met+(0.1002)Phe;0.728,0.770,0.763,0.768,0.713,0.819,0.814,0.778,(3.8179)+(-0.0608)Asn+(-0.0084)Ala+(-0.0346)Tyr+(0.0225)Orn+(-0.0128)Lys+(0.0517)Ile;0.728,0.776,0.722,0.705,0.758,0.840,0.604,0.727,(1.4499)+(0.0293)Ser+(-0.0103)Thr+(-0.1106)Cit+(-0.0066)Val+(0.0576)Orn+(-0.0196)Lys;0.728,0.773,0.768,0.767,0.743,0.797,0.799,0.777,(3.7938)+(-0.1510)Asn+(-0.0460)Val+(0.0383)Orn+(-0.0043)Lys+(0.0508)Leu+(0.0588)Phe;0.728,0.773,0.690,0.675,0.673,0.742,0.725,0.704,(-2.2604)+(0.0488)Ser+(-0.1835)Asn+(0.0013)Gln+(-0.0114)Thr+(0.0232)Ile+(0.0372)Phe;0.728,0.772,0.706,0.694,0.666,0.765,0.780,0.726,(0.4971)+(-0.0003)Gln+(0.0047)Orn+(-0.0175)Lys+(0.1418)Ile+(-0.0862)Leu+(0.0376)Phe;0.728,0.772,0.779,0.795,0.741,0.801,0.799,0.784,(3.3951)+(-0.1297)Asn+(-0.0076)Ala+(0.0100)Pro+(-0.0207)Val+(0.0301)Orn+(0.0719)Phe;0.728,0.771,0.766,0.803,0.744,0.739,0.734,0.755,(4.0628)+(-0.1025)Asn+(-0.0525)Cit+(0.0088)Pro+(-0.0549)Tyr+(-0.0163)Val+(0.1008)Phe;0.728,0.770,0.777,0.779,0.734,0.827,0.824,0.791,(1.7477)+(-0.0934)Asn+(0.0035)Gly+(-0.0109)Ala+(-0.0134)Arg+(0.0407)Ile+(0.0356)Phe;0.728,0.764,0.769,0.785,0.781,0.748,0.714,0.757,(1.1597)+(-0.0354)Asn+(0.0033)Gly+(-0.0060)Arg+(-0.2555)Met+(-0.0043)Lys+(0.0920)Phe;0.728,0.770,0.783,0.822,0.775,0.745,0.727,0.767,(-0.7225)+(0.0059)Gln+(-0.0163)Arg+(-0.0272)Tyr+(-0.2683)Met+(-0.0099)Leu+(0.1070)Phe;0.728,0.769,0.765,0.777,0.758,0.822,0.708,0.766,(3.5214)+(0.0449)Ser+(-0.1279)Asn+(-0.0051)Gly+(-0.0485)Cit+(-0.0054)Arg+(-0.0084)Val;0.728,0.772,0.776,0.773,0.790,0.835,0.714,0.778,(4.3730)+(-0.0071)Ala+(-0.1095)Cit+(0.0004)Arg+(-0.0116)Tyr+(-0.1216)Met+(0.0568)Orn;0.728,0.767,0.758,0.785,0.762,0.745,0.687,0.745,(1

.1851)+(-0.0147)Arg+(-0.0325)Tyr+(-0.2250)Met+(0.0257)Orn+(-0.0139)Leu+(0.1017)Phe;0.728,0.775,0.763,0.759,0.766,0.790,0.751,0.766,(1.1753)+(0.0059)Gln+(-0.0790)Cit+(0.0024)Pro+(-0.0150)Tyr+(-0.2728)Met+(0.0543)Ile;0.728,0.767,0.796,0.807,0.781,0.832,0.771,0.798,(2.8689)+(0.0057)Gln+(-0.0087)Ala+(-0.0804)Cit+(0.0001)Arg+(0.0148)Pro+(-0.1911)Met;0.728,0.763,0.723,0.716,0.731,0.748,0.706,0.725,(1.7760)+(-0.0357)Asn+(0.0015)Gly+(0.0182)Thr+(0.0012)Pro+(-0.3133)Met+(0.0497)Ile;0.728,0.767,0.723,0.720,0.739,0.752,0.673,0.721,(2.1296)+(-0.0258)Asn+(0.0017)Gly+(0.0226)Thr+(-0.0164)Arg+(-0.3081)Met+(0.0522)Ile;0.728,0.771,0.735,0.733,0.742,0.824,0.664,0.741,(4.3063)+(-0.1022)Cit+(-0.0377)Tyr+(-0.0271)Val+(0.0651)Orn+(-0.0157)Lys+(0.0391)Leu;0.728,0.767,0.767,0.772,0.717,0.828,0.811,0.782,(5.4381)+(-0.1457)Asn+(0.0175)Thr+(-0.0071)Ala+(0.0107)Pro+(-0.0432)Val+(0.0612)Leu;0.728,0.766,0.787,0.794,0.791,0.788,0.761,0.784,(2.2076)+(-0.0055)Ala+(-0.0659)Cit+(-0.2126)Met+(-0.0039)Lys+(-0.0002)Leu+(0.0978)Phe;0.728,0.781,0.746,0.773,0.749,0.842,0.596,0.740,(0.8857)+(0.0324)Ser+(0.0100)Thr+(0.0054)Tyr+(-0.0041)Val+(-0.2659)Met+(-0.0026)Lys;0.728,0.772,0.790,0.783,0.750,0.837,0.856,0.807,(2.6607)+(-0.0692)Asn+(-0.0103)Ala+(-0.0060)Arg+(-0.0129)Lys+(0.0463)Ile+(0.0355)Phe;0.728,0.771,0.737,0.723,0.738,0.781,0.742,0.746,(2.1951)+(0.0017)Gly+(0.0015)Pro+(-0.2603)Met+(0.0117)Orn+(-0.0119)Lys+(0.0550)Ile;0.728,0.778,0.744,0.739,0.796,0.824,0.594,0.738,(3.9646)+(0.0009)Gly+(0.0170)Thr+(-0.1048)Cit+(-0.2179)Met+(0.0472)Orn+(-0.0110)Lys;0.728,0.776,0.781,0.809,0.751,0.846,0.725,0.782,(1.2236)+(0.0364)Ser+(-0.1365)Asn+(0.0032)Gln+(-0.0053)Ala+(-0.0143)Arg+(0.0007)Leu;0.728,0.773,0.757,0.802,0.756,0.744,0.653,0.739,(2.8975)+(-0.1006)Asn+(0.0047)Gly+(-0.0713)Cit+(-0.0519)Tyr+(-0.0141)Leu+(0.0990)Phe;0.728,0.770,0.717,0.713,0.714,0.761,0.703,0.723,(2.4738)+(0.0218)Thr+(0.0016)Pro+(-0.0209)Tyr+(-0.2862)Met+(-0.0129)Lys+(0.0603)Il

e;0.728,0.769,0.756,0.756,0.729,0.778,0.795,0.765,(3.7362)+(-0.1618)Asn+(0.0041)Pro+(-0.0474)Val+(0.0354)Orn+(0.0490)Leu+(0.0560)Phe;0.728,0.767,0.743,0.756,0.729,0.806,0.694,0.747,(1.6917)+(0.0017)Gly+(-0.0104)Ala+(-0.1195)Cit+(-0.0531)Tyr+(0.0516)Orn+(0.0650)Phe;0.728,0.771,0.757,0.780,0.753,0.735,0.718,0.746,(2.0581)+(-0.0502)Cit+(0.0112)Pro+(-0.0262)Tyr+(-0.0137)Val+(-0.2557)Met+(0.1174)Phe;0.728,0.770,0.762,0.780,0.778,0.766,0.678,0.750,(0.9806)+(0.0052)Gly+(-0.0648)Cit+(-0.0114)Val+(-0.2712)Met+(0.0001)Lys+(0.1205)Phe;0.728,0.770,0.723,0.756,0.729,0.689,0.649,0.706,(0.9636)+(-0.0639)Asn+(0.0275)Thr+(-0.0424)Tyr+(-0.2829)Met+(0.0064)Orn+(0.1024)Phe;0.728,0.770,0.641,0.653,0.629,0.707,0.591,0.645,(-1.8425)+(0.0287)Ser+(-0.0917)Cit+(0.0008)Pro+(-0.0859)Tyr+(0.0320)Ile+(0.0539)Phe;0.728,0.766,0.786,0.808,0.770,0.769,0.776,0.781,(2.1082)+(-0.0376)Asn+(-0.0044)Ala+(-0.0241)Tyr+(-0.1816)Met+(-0.0035)Lys+(0.0975)Phe;0.728,0.772,0.742,0.754,0.748,0.797,0.660,0.740,(0.9891)+(0.0376)Ser+(-0.1615)Asn+(0.0045)Gln+(-0.0742)Cit+(-0.0086)Arg+(0.0040)Pro;0.728,0.769,0.772,0.763,0.728,0.840,0.840,0.793,(3.0544)+(-0.0727)Asn+(0.0017)Gly+(-0.0099)Ala+(0.0172)Orn+(-0.0149)Lys+(0.0501)Ile;0.728,0.766,0.768,0.762,0.715,0.838,0.846,0.790,(3.1136)+(-0.0729)Asn+(0.0023)Gly+(-0.0113)Ala+(0.0064)Pro+(-0.0125)Lys+(0.0493)Ile;0.728,0.782,0.780,0.800,0.754,0.838,0.740,0.783,(0.5329)+(0.0432)Ser+(-0.0078)Gly+(0.0020)Gln+(0.0007)Tyr+(-0.0042)Val+(-0.2423)Met;0.728,0.773,0.771,0.804,0.727,0.760,0.780,0.768,(3.5797)+(-0.1328)Asn+(0.0027)Gly+(-0.0421)Tyr+(-0.0361)Val+(0.0414)Leu+(0.0902)Phe;0.728,0.780,0.744,0.768,0.738,0.839,0.621,0.742,(0.5683)+(0.0320)Ser+(0.0002)Gln+(0.0024)Tyr+(-0.0068)Val+(-0.2480)Met+(0.0222)Orn;0.728,0.767,0.785,0.796,0.744,0.833,0.804,0.794,(3.9081)+(-0.1660)Asn+(0.0001)Gly+(0.0044)Gln+(-0.0469)Val+(0.0358)Orn+(0.0591)Leu;0.728,0.766,0.767,0.756,0.803,0.822,0.682,0.766,(4.8794)+(-0.0472)Asn+(-0.0992)Cit

+(-0.1234)Met+(0.0548)Orn+(-0.0078)Lys+(-0.0014)Leu;0.728,0.770,0.778,0.781,0.773,0.789,0.773,0.779,(0.9316)+(-0.0376)Asn+(0.0061)Gln+(-0.0137)Arg+(0.0017)Pro+(-0.2669)Met+(0.0470)Ile;0.728,0.768,0.773,0.777,0.768,0.788,0.762,0.774,(0.8079)+(-0.0398)Asn+(0.0014)Gly+(0.0059)Gln+(-0.0137)Arg+(-0.2628)Met+(0.0499)Ile;0.728,0.767,0.783,0.815,0.784,0.753,0.719,0.768,(-1.0881)+(0.0012)Gly+(0.0056)Gln+(-0.0166)Arg+(-0.3105)Met+(-0.0093)Leu+(0.0997)Phe;0.728,0.773,0.736,0.774,0.742,0.719,0.636,0.718,(3.3815)+(-0.1211)Asn+(0.0228)Thr+(-0.0695)Cit+(-0.0069)Arg+(-0.0729)Tyr+(0.0824)Phe;0.728,0.770,0.752,0.740,0.764,0.770,0.744,0.755,(3.6272)+(-0.0176)Asn+(-0.0648)Cit+(0.0032)Pro+(-0.0167)Tyr+(-0.2122)Met+(0.0512)Ile;0.728,0.776,0.736,0.760,0.744,0.817,0.598,0.730,(0.3278)+(0.0347)Ser+(0.0011)Gln+(-0.0154)Arg+(-0.2343)Met+(0.0219)Orn+(-0.0044)Lys;0.728,0.774,0.706,0.706,0.697,0.763,0.682,0.712,(-1.2028)+(0.0463)Ser+(-0.1695)Asn+(0.0016)Gln+(0.0022)Pro+(-0.0165)Lys+(0.0599)Phe;0.728,0.773,0.726,0.709,0.676,0.823,0.805,0.753,(-1.2078)+(0.0368)Ser+(-0.0055)Gly+(-0.0127)Ala+(-0.0278)Arg+(0.0034)Orn+(0.0493)Ile;0.728,0.768,0.766,0.762,0.761,0.797,0.767,0.772,(4.6174)+(-0.0496)Cit+(0.0053)Arg+(0.0105)Pro+(-0.0344)Val+(-0.2450)Met+(0.0555)Leu;0.728,0.765,0.757,0.780,0.758,0.731,0.713,0.745,(1.7599)+(-0.0421)Asn+(-0.0104)Arg+(-0.0348)Tyr+(-0.2022)Met+(0.0216)Orn+(0.0868)Phe;0.728,0.775,0.744,0.758,0.725,0.799,0.709,0.748,(2.4161)+(0.0482)Ser+(-0.1204)Asn+(-0.0082)Gly+(-0.0384)Tyr+(0.0287)Orn+(-0.0098)Lys;0.728,0.768,0.736,0.749,0.732,0.811,0.657,0.737,(3.2340)+(0.0387)Ser+(-0.1460)Asn+(0.0010)Thr+(-0.0601)Cit+(0.0092)Pro+(-0.0119)Val;0.728,0.777,0.765,0.781,0.729,0.838,0.746,0.774,(0.9374)+(0.0376)Ser+(-0.1467)Asn+(0.0017)Gln+(-0.0053)Thr+(-0.0063)Ala+(0.0210)Orn;0.728,0.779,0.732,0.726,0.782,0.759,0.624,0.723,(0.2602)+(0.0052)Gly+(-0.0996)Cit+(-0.0001)Arg+(-0.2987)Met+(0.0349)Or

n+(0.0899)Phe;0.728,0.778,0.740,0.755,0.782,0.733,0.616,0.721,(0.8410)+(0.0318)Thr+(-0.0720)Cit+(-0.0088)Arg+(-0.3689)Met+(-0.0062)Leu+(0.1079)Phe;0.728,0.773,0.730,0.734,0.751,0.741,0.665,0.723,(1.3916)+(-0.0890)Cit+(0.0063)Pro+(-0.0385)Tyr+(-0.2507)Met+(0.0374)Orn+(0.0881)Phe;0.728,0.771,0.710,0.748,0.644,0.727,0.736,0.714,(-0.6570)+(0.0374)Ser+(-0.0105)Gly+(-0.0773)Tyr+(-0.0244)Val+(0.0202)Leu+(0.0781)Phe;0.728,0.768,0.759,0.766,0.739,0.790,0.763,0.764,(3.8187)+(0.0012)Gly+(0.0109)Pro+(-0.0389)Val+(-0.2664)Met+(0.0021)Lys+(0.0601)Leu;0.728,0.776,0.707,0.705,0.702,0.772,0.676,0.714,(-1.1348)+(0.0457)Ser+(-0.1685)Asn+(0.0012)Gln+(0.0134)Orn+(-0.0175)Lys+(0.0580)Phe;0.728,0.771,0.774,0.812,0.752,0.836,0.674,0.768,(2.2351)+(0.0335)Ser+(-0.1528)Asn+(0.0039)Gln+(0.0048)Thr+(-0.0171)Arg+(-0.0117)Val;0.728,0.771,0.794,0.822,0.774,0.789,0.766,0.788,(3.6880)+(-0.0778)Asn+(-0.0059)Ala+(-0.0654)Cit+(-0.0430)Tyr+(-0.0082)Leu+(0.0939)Phe;0.728,0.768,0.744,0.728,0.710,0.827,0.798,0.766,(0.6126)+(0.0046)Gly+(-0.0015)Thr+(-0.0151)Ala+(-0.1044)Cit+(0.0577)Ile+(0.0264)Phe;0.728,0.771,0.703,0.734,0.618,0.758,0.757,0.717,(-1.0421)+(0.0372)Ser+(-0.0093)Gly+(-0.0104)Ala+(0.0111)Pro+(-0.0736)Tyr+(0.0622)Phe;0.728,0.765,0.749,0.762,0.709,0.803,0.758,0.758,(1.2816)+(0.0035)Gln+(-0.0052)Thr+(-0.0336)Arg+(-0.0053)Pro+(0.1725)Ile+(-0.0982)Leu;0.728,0.772,0.778,0.789,0.750,0.838,0.765,0.785,(2.4998)+(0.0478)Ser+(-0.1126)Asn+(-0.0065)Gly+(-0.0047)Ala+(-0.0092)Arg+(-0.0055)Lys;0.728,0.771,0.769,0.791,0.739,0.821,0.736,0.772,(3.6412)+(0.0444)Ser+(-0.1374)Asn+(-0.0078)Gly+(0.0069)Thr+(-0.0262)Tyr+(-0.0093)Val;0.728,0.771,0.675,0.734,0.653,0.726,0.527,0.660,(-1.3743)+(0.0315)Ser+(-0.0326)Arg+(0.0081)Pro+(-0.0764)Tyr+(-0.0220)Leu+(0.0899)Phe;0.728,0.766,0.755,0.801,0.717,0.723,0.732,0.743,(3.3765)+(-0.1191)Asn+(0.0020)Gly+(0.0088)Pro+(-0.0544)Tyr+(-0.0186)Val+(0.0976)Phe;0.728,0.776,0.705,0.718,0.708,0.787,0.604,0.704,(-0.0859)+(0.

0382)Ser+(0.0000)Gln+(0.0095)Pro+(-0.2819)Met+(0.0142)Orn+(-0.0065)Ly
s;0.728,0.773,0.700,0.751,0.662,0.766,0.599,0.694,(-0.9467)+(0.0304)S
er+(-0.0283)Arg+(-0.0623)Tyr+(-0.0241)Val+(0.0194)Leu+(0.0867)Phe;0.7
28,0.771,0.756,0.731,0.797,0.805,0.703,0.759,(3.4218)+(-0.0899)Asn+(-
0.1069)Cit+(-0.0013)Pro+(0.0530)Orn+(-0.0180)Lys+(0.0446)Phe;0.728,0.
770,0.761,0.783,0.778,0.749,0.679,0.747,(-1.4568)+(0.0041)Gly+(0.0062
)Gln+(-0.0830)Cit+(-0.0034)Arg+(-0.3277)Met+(0.1028)Phe;0.728,0.782,0
.716,0.690,0.695,0.801,0.769,0.739,(-0.2498)+(0.0514)Ser+(-0.1386)Asn
+(-0.0062)Gly+(0.0022)Gln+(-0.0197)Lys+(0.0411)Ile;0.728,0.772,0.811,
0.821,0.787,0.842,0.811,0.815,(2.7961)+(0.0062)Gln+(-0.0042)Ala+(-0.0
619)Cit+(-0.0293)Val+(-0.2154)Met+(0.0564)Leu;0.728,0.775,0.767,0.800
,0.723,0.832,0.724,0.770,(1.4443)+(0.0354)Ser+(-0.1398)Asn+(0.0027)Gl
n+(-0.0047)Ala+(-0.0233)Tyr+(0.0033)Leu;0.728,0.764,0.783,0.800,0.800
,0.822,0.678,0.775,(5.5034)+(-0.0537)Asn+(0.0262)Thr+(-0.0046)Ala+(-0
.0711)Cit+(-0.1647)Met+(-0.0017)Lys;0.728,0.769,0.773,0.810,0.723,0.7
69,0.783,0.771,(3.7790)+(-0.1033)Asn+(-0.0065)Ala+(0.0127)Pro+(-0.047
9)Tyr+(-0.0156)Val+(0.0953)Phe;0.728,0.763,0.797,0.808,0.773,0.837,0.
790,0.802,(3.5531)+(-0.1187)Asn+(0.0059)Gln+(0.0098)Thr+(-0.0106)Ala+
(-0.0877)Cit+(0.0106)Pro;0.727,0.770,0.715,0.703,0.672,0.767,0.795,0.
734,(0.5579)+(-0.0011)Gly+(0.0002)Gln+(-0.0170)Lys+(0.1432)Ile+(-0.08
67)Leu+(0.0379)Phe;0.727,0.777,0.719,0.734,0.723,0.794,0.614,0.716,(-
0.5595)+(0.0374)Ser+(-0.0000)Gln+(-0.0016)Tyr+(-0.2853)Met+(0.0134)Or
n+(0.0078)Leu;0.727,0.769,0.696,0.719,0.670,0.720,0.673,0.696,(-1.052
9)+(0.0411)Ser+(-0.0070)Gly+(-0.0068)Thr+(-0.0755)Cit+(-0.0786)Tyr+(0
.0728)Phe;0.727,0.774,0.775,0.772,0.806,0.838,0.674,0.772,(3.0003)+(-
0.1165)Asn+(0.0026)Gly+(0.0057)Gln+(-0.1156)Cit+(0.0512)Orn+(-0.0151)
Lys;0.727,0.771,0.752,0.763,0.739,0.806,0.707,0.754,(2.1466)+(-0.0100
)Ala+(-0.1118)Cit+(-0.0054)Arg+(-0.0532)Tyr+(0.0520)Orn+(0.0647)Phe;0

.727,0.766,0.763,0.788,0.764,0.733,0.717,0.750,(1.4937)+(-0.0421)Asn+(0.0027)Gly+(-0.0266)Tyr+(-0.2161)Met+(-0.0047)Lys+(0.0982)Phe;0.727,0.763,0.724,0.718,0.731,0.748,0.708,0.726,(1.7849)+(-0.0353)Asn+(0.0015)Gly+(0.0187)Thr+(-0.3123)Met+(-0.0013)Orn+(0.0515)Ile;0.727,0.775,0.707,0.713,0.714,0.756,0.641,0.706,(-1.0273)+(0.0462)Ser+(-0.1746)Asn+(-0.0224)Arg+(0.0011)Pro+(0.0091)Orn+(0.0514)Phe;0.727,0.771,0.744,0.746,0.784,0.783,0.624,0.734,(2.3334)+(-0.1338)Asn+(0.0053)Gly+(-0.1094)Cit+(0.0485)Orn+(-0.0224)Leu+(0.0657)Phe;0.727,0.779,0.724,0.743,0.737,0.797,0.596,0.718,(0.0382)+(0.0377)Ser+(-0.0152)Arg+(-0.0019)Tyr+(-0.2587)Met+(0.0180)Orn+(0.0062)Leu;0.727,0.772,0.716,0.705,0.729,0.803,0.659,0.724,(2.6212)+(0.0031)Gln+(-0.1143)Cit+(-0.0525)Tyr+(0.0481)Orn+(-0.0247)Lys+(0.0440)Ile;0.727,0.767,0.787,0.807,0.781,0.776,0.752,0.779,(2.2547)+(-0.0035)Ala+(-0.0571)Cit+(-0.0173)Tyr+(-0.0091)Val+(-0.2043)Met+(0.1159)Phe;0.727,0.767,0.761,0.767,0.741,0.796,0.758,0.766,(4.0368)+(0.0013)Gly+(-0.0034)Arg+(0.0108)Pro+(-0.0377)Val+(-0.2535)Met+(0.0590)Leu;0.727,0.767,0.723,0.742,0.754,0.721,0.609,0.706,(-0.0986)+(0.0016)Gly+(0.0270)Thr+(-0.0219)Arg+(-0.3801)Met+(0.0054)Orn+(0.0972)Phe;0.727,0.767,0.634,0.638,0.589,0.676,0.688,0.648,(-1.3524)+(0.0440)Ser+(-0.0095)Gly+(-0.0036)Gln+(-0.0918)Tyr+(0.0297)Ile+(0.0476)Phe;0.727,0.766,0.656,0.685,0.654,0.716,0.542,0.649,(-1.3622)+(0.0324)Ser+(-0.0722)Cit+(-0.0194)Arg+(0.0055)Pro+(-0.0804)Tyr+(0.0738)Phe;0.727,0.765,0.722,0.738,0.694,0.762,0.710,0.726,(2.1135)+(0.0483)Ser+(-0.1327)Asn+(-0.0076)Gly+(0.0006)Thr+(0.0072)Pro+(-0.0469)Tyr;0.727,0.769,0.777,0.767,0.741,0.838,0.835,0.795,(3.3828)+(-0.0625)Asn+(-0.0097)Ala+(-0.0084)Arg+(0.0202)Orn+(-0.0135)Lys+(0.0480)Ile;0.727,0.767,0.727,0.728,0.705,0.815,0.708,0.739,(2.2961)+(0.0029)Gly+(-0.0710)Cit+(-0.0178)Arg+(-0.0052)Pro+(0.1706)Ile+(-0.0918)Leu;0.727,0.766,0.779,0.782,0.743,0.846,0.798,0.792,(5.3673)+(-0.1179)Asn+(-0.0045

)Ala+(-0.0088)Arg+(-0.0430)Val+(0.0439)Orn+(0.0593)Leu;0.727,0.772,0.785,0.822,0.767,0.750,0.752,0.773,(3.9372)+(-0.1009)Asn+(-0.0529)Cit+(-0.0485)Tyr+(-0.0145)Val+(0.0015)Lys+(0.1041)Phe;0.727,0.767,0.788,0.822,0.763,0.763,0.769,0.779,(-0.6551)+(0.0046)Gln+(-0.0042)Ala+(-0.0226)Tyr+(-0.2618)Met+(-0.0061)Leu+(0.1032)Phe;0.727,0.773,0.792,0.803,0.750,0.851,0.805,0.802,(1.5874)+(0.0454)Ser+(-0.1337)Asn+(-0.0072)Gly+(0.0035)Gln+(-0.0050)Ala+(-0.0081)Lys;0.727,0.780,0.750,0.782,0.748,0.841,0.601,0.743,(0.6976)+(0.0308)Ser+(0.0011)Gln+(0.0099)Thr+(-0.0040)Val+(-0.2613)Met+(-0.0030)Lys;0.727,0.769,0.717,0.712,0.713,0.766,0.700,0.723,(2.4372)+(0.0209)Thr+(-0.0207)Tyr+(-0.2794)Met+(0.0060)Orn+(-0.0138)Lys+(0.0606)Ile;0.727,0.769,0.785,0.804,0.759,0.805,0.778,0.786,(3.1336)+(-0.1506)Asn+(0.0126)Thr+(-0.0056)Ala+(-0.0211)Val+(0.0289)Orn+(0.0810)Phe;0.727,0.778,0.718,0.722,0.706,0.773,0.694,0.724,(-1.2634)+(0.0466)Ser+(-0.1671)Asn+(0.0018)Gln+(-0.0025)Thr+(-0.0152)Lys+(0.0617)Phe;0.727,0.774,0.766,0.791,0.743,0.847,0.691,0.768,(2.2590)+(0.0379)Ser+(-0.1200)Asn+(0.0040)Thr+(-0.0050)Ala+(-0.0112)Arg+(-0.0048)Lys;0.727,0.769,0.778,0.767,0.790,0.858,0.724,0.785,(3.4448)+(0.0025)Gln+(0.0030)Thr+(-0.0100)Ala+(-0.1271)Cit+(0.0618)Orn+(-0.0173)Lys;0.727,0.767,0.753,0.729,0.721,0.827,0.830,0.777,(2.1856)+(0.0016)Thr+(-0.0157)Ala+(-0.0940)Cit+(-0.0036)Arg+(0.0077)Pro+(0.0536)Ile;0.727,0.773,0.785,0.820,0.767,0.753,0.754,0.773,(3.9336)+(-0.1006)Asn+(-0.0552)Cit+(0.0027)Arg+(-0.0484)Tyr+(-0.0141)Val+(0.1040)Phe;0.727,0.778,0.696,0.706,0.697,0.686,0.675,0.691,(-0.6086)+(0.0278)Thr+(-0.0362)Tyr+(-0.3931)Met+(-0.0108)Orn+(0.0460)Ile+(0.0893)Phe;0.727,0.769,0.743,0.732,0.744,0.777,0.749,0.751,(2.4521)+(-0.0153)Asn+(0.0025)Gly+(0.0020)Pro+(-0.2492)Met+(-0.0093)Lys+(0.0562)Ile;0.727,0.775,0.685,0.668,0.672,0.744,0.714,0.699,(-1.9943)+(0.0496)Ser+(-0.1779)Asn+(-0.0117)Thr+(0.0050)Orn+(0.0224)Ile+(0.0367)Phe;0.727,0.771,0.745,0.7

32,0.713,0.824,0.790,0.765,(0.6635)+(0.0046)Gly+(-0.0149)Ala+(-0.1008)Cit+(-0.0048)Arg+(0.0571)Ile+(0.0278)Phe;0.727,0.770,0.676,0.696,0.653,0.701,0.653,0.676,(-1.0141)+(0.0386)Ser+(-0.0076)Gly+(-0.0780)Cit+(0.0049)Pro+(-0.0900)Tyr+(0.0680)Phe;0.727,0.767,0.717,0.732,0.707,0.792,0.643,0.718,(3.3230)+(-0.0970)Cit+(0.0053)Pro+(-0.0540)Tyr+(-0.0273)Val+(0.0545)Orn+(0.0290)Leu;0.727,0.774,0.704,0.702,0.703,0.760,0.673,0.709,(-1.8412)+(0.0461)Ser+(-0.1810)Asn+(0.0020)Gln+(-0.0236)Arg+(0.0214)Ile+(0.0416)Phe;0.727,0.773,0.781,0.785,0.803,0.847,0.677,0.778,(3.1539)+(0.0041)Gln+(-0.1000)Cit+(-0.0073)Val+(-0.1747)Met+(0.0533)Orn+(-0.0076)Lys;0.727,0.772,0.761,0.762,0.743,0.772,0.791,0.767,(3.9386)+(-0.1816)Asn+(0.0234)

Thr+(-0.0472)Val+(-0.0065)Lys+(0.0562)Leu+(0.0698)Phe;0.727,0.771,0.712,0.698,0.673,0.767,0.793,0.732,(0.6126)+(-0.0012)Gly+(0.0054)Orn+(-0.0174)Lys+(0.1414)Ile+(-0.0862)Leu+(0.0367)Phe;0.727,0.768,0.778,0.776,0.769,0.800,0.786,0.783,(5.8570)+(-0.0550)Asn+(-0.0402)Cit+(0.0106)Pro+(-0.0366)Val+(-0.1797)Met+(0.0572)Leu;0.727,0.767,0.731,0.734,0.710,0.814,0.709,0.742,(1.2743)+(0.0018)Gly+(0.0028)Gln+(-0.0703)Cit+(-0.0237)Arg+(0.1635)Ile+(-0.0931)Leu;0.727,0.770,0.737,0.751,0.747,0.801,0.631,0.733,(2.3617)+(0.0394)Ser+(-0.1369)Asn+(0.0007)Thr+(-0.0660)Cit+(-0.0047)Arg+(-0.0018)Leu;0.727,0.774,0.763,0.780,0.753,0.815,0.704,0.763,(1.1132)+(0.0476)Ser+(-0.0074)Gly+(-0.0112)Arg+(-0.0009)Tyr+(-0.2228)Met+(-0.0013)Lys;0.727,0.771,0.744,0.759,0.744,0.796,0.671,0.742,(1.2771)+(0.0365)Ser+(-0.1647)Asn+(0.0043)Gln+(-0.0776)Cit+(0.0048)Pro+(-0.0059)Leu;0.727,0.770,0.764,0.773,0.760,0.805,0.716,0.764,(1.2053)+(0.0422)Ser+(-0.1577)Asn+(-0.0044)Gly+(0.0051)Gln+(-0.0676)Cit+(-0.0087)Arg;0.727,0.779,0.737,0.765,0.741,0.822,0.593,0.730,(0.2303)+(0.0331)Ser+(0.0010)Gln+(0.0091)Thr+(0.0026)Tyr+(-0.2729)Met+(-0.0047)Lys;0.727,0.770,0.763,0.766,0.789,0.829,0.656,0.760,(4.6670)+(-

0.0976)Cit+(-0.0142)Tyr+(-0.0077)Val+(-0.1317)Met+(0.0597)Orn+(-0.0058)Lys;0.727,0.773,0.759,0.784,0.737,0.839,0.679,0.760,(2.1709)+(0.0339)Ser+(-0.1592)Asn+(0.0022)Gln+(-0.0133)Val+(0.0294)Orn+(-0.0050)Lys;0.727,0.767,0.794,0.808,0.777,0.832,0.765,0.796,(2.9786)+(0.0058)Gln+(-0.0086)Ala+(-0.0796)Cit+(0.0151)Pro+(-0.0079)Tyr+(-0.1802)Met;0.727,0.773,0.710,0.728,0.709,0.783,0.612,0.708,(-0.0574)+(0.0385)Ser+(0.0006)Gln+(0.0106)Pro+(-0.0038)Tyr+(-0.2799)Met+(-0.0041)Lys;0.727,0.770,0.777,0.815,0.751,0.838,0.685,0.772,(2.0403)+(0.0351)Ser+(-0.1476)Asn+(0.0041)Gln+(-0.0157)Arg+(-0.0110)Val+(0.0000)Lys;0.727,0.769,0.766,0.764,0.795,0.833,0.665,0.764,(4.4789)+(-0.0969)Cit+(0.0000)Arg+(-0.0082)Val+(-0.1541)Met+(0.0580)Orn+(-0.0058)Lys;0.727,0.768,0.760,0.770,0.752,0.821,0.706,0.762,(3.5480)+(0.0429)Ser+(-0.1403)Asn+(-0.0049)Gly+(0.0045)Thr+(-0.0536)Cit+(-0.0090)Val;0.727,0.766,0.694,0.683,0.672,0.776,0.708,0.710,(-0.2837)+(0.0027)Gly+(-0.0002)Gln+(-0.0961)Cit+(0.1596)Ile+(-0.0992)Leu+(0.0471)Phe;0.727,0.776,0.703,0.719,0.704,0.784,0.598,0.701,(0.0653)+(0.0376)Ser+(0.0098)Pro+(-0.0069)Tyr+(-0.2710)Met+(0.0150)Orn+(-0.0064)Lys;0.727,0.771,0.770,0.801,0.767,0.744,0.713,0.756,(-0.7683)+(0.0052)Gln+(-0.0182)Arg+(-0.0290)Tyr+(-0.2812)Met+(0.0144)Orn+(0.0931)Phe;0.727,0.769,0.764,0.761,0.711,0.821,0.844,0.784,(1.6746)+(-0.1096)Asn+(0.0029)Gly+(-0.0125)Ala+(0.0063)Pro+(0.0345)Ile+(0.0315)Phe;0.727,0.768,0.779,0.779,0.739,0.851,0.813,0.796,(5.2596)+(-0.1209)Asn+(-0.0047)Ala+(-0.0429)Val+(0.0425)Orn+(-0.0034)Lys+(0.0610)Leu;0.727,0.766,0.751,0.739,0.788,0.811,0.660,0.750,(4.0426)+(-0.0969)Cit+(0.0056)Pro+(-0.1889)Met+(0.0498)Orn+(-0.0092)Lys+(-0.0007)Leu;0.727,0.766,0.732,0.745,0.730,0.807,0.645,0.732,(3.7227)+(-0.0900)Cit+(-0.0101)Arg+(-0.0451)Tyr+(-0.0274)Val+(0.0578)Orn+(0.0312)Leu;0.727,0.778,0.686,0.657,0.677,0.793,0.703,0.707,(-0.4000)+(0.0468)Ser+(-0.1294)Asn+(-0.0069)Thr+(0.0138)Orn+(-0.0186)Lys+(0.0426)Ile;

0.727,0.778,0.744,0.744,0.788,0.819,0.595,0.737,(4.3781)+(0.0181)Thr+(-0.1045)Cit+(-0.0198)Tyr+(-0.1868)Met+(0.0501)Orn+(-0.0110)Lys;0.727,0.768,0.767,0.754,0.803,0.821,0.689,0.767,(4.7918)+(-0.0490)Asn+(-0.1043)Cit+(0.0063)Arg+(-0.1272)Met+(0.0548)Orn+(-0.0095)Lys;0.727,0.768,0.756,0.758,0.729,0.821,0.760,0.767,(5.0388)+(-0.1701)Asn+(0.0003)Gly+(0.0142)Thr+(-0.0504)Val+(0.0357)Orn+(0.0647)Leu;0.727,0.764,0.783,0.799,0.798,0.817,0.681,0.774,(5.4097)+(-0.0546)Asn+(0.0258)Thr+(-0.0047)Ala+(-0.0709)Cit+(-0.0005)Arg+(-0.1691)Met;0.727,0.772,0.740,0.745,0.765,0.747,0.669,0.731,(1.4243)+(-0.0933)Cit+(0.0006)Arg+(-0.0350)Tyr+(-0.2328)Met+(0.0408)Orn+(0.0889)Phe;0.727,0.766,0.624,0.646,0.604,0.707,0.551,0.627,(-1.8135)+(0.0364)Ser+(-0.0026)Gln+(-0.0299)Arg+(-0.0778)Tyr+(0.0332)Ile+(0.0536)Phe;0.727,0.770,0.755,0.734,0.774,0.775,0.755,0.760,(3.2117)+(-0.0179)Asn+(-0.0704)Cit+(0.0050)Arg+(0.0023)Pro+(-0.2447)Met+(0.0513)Ile;0.727,0.761,0.736,0.731,0.711,0.824,0.736,0.750,(0.9605)+(0.0323)Ser+(-0.0003)Gln+(-0.0122)Thr+(-0.0123)Ala+(-0.0860)Cit+(0.0146)Pro;0.727,0.775,0.731,0.752,0.742,0.814,0.593,0.725,(0.6218)+(0.0359)Ser+(-0.0147)Arg+(-0.0010)Tyr+(-0.2287)Met+(0.0230)Orn+(-0.0042)Lys;0.727,0.771,0.741,0.730,0.787,0.821,0.615,0.738,(4.4049)+(-0.1022)Asn+(0.0034)Gly+(0.0080)Thr+(-0.1135)Cit+(0.0536)Orn+(-0.0153)Lys;0.727,0.771,0.703,0.743,0.649,0.717,0.703,0.703,(-0.3391)+(0.0401)Ser+(-0.0098)Gly+(-0.0021)Gln+(-0.0767)Tyr+(-0.0145)Val+(0.0893)Phe;0.727,0.767,0.737,0.749,0.726,0.755,0.717,0.737,(1.2092)+(-0.0581)Asn+(0.0044)Gln+(0.0189)Thr+(-0.0237)Tyr+(-0.2764)Met+(0.0495)Ile;0.727,0.777,0.726,0.747,0.733,0.814,0.594,0.722,(0.2545)+(0.0333)Ser+(0.0003)Gln+(0.0060)Thr+(-0.2601)Met+(0.0176)Orn+(-0.0070)Lys;0.727,0.773,0.769,0.809,0.738,0.830,0.682,0.765,(2.3785)+(0.0321)Ser+(-0.1558)Asn+(0.0033)Gln+(0.0042)Thr+(-0.0211)Tyr+(-0.0097)Val;0.727,0.772,0.750,0.768,0.735,0.837,0.667,0.752,(2.6421)+(0.0356)Ser+(-0.1493

)Asn+(-0.0007)Thr+(-0.0131)Val+(0.0314)Orn+(-0.0045)Lys;0.727,0.776,0.764,0.784,0.738,0.843,0.707,0.768,(1.8984)+(0.0399)Ser+(-0.1162)Asn+(-0.0053)Ala+(-0.0094)Arg+(-0.0057)Lys+(0.0049)Leu;0.727,0.768,0.797,0.797,0.741,0.856,0.869,0.816,(2.0844)+(-0.0883)Asn+(0.0010)Gly+(0.0043)Gln+(-0.0098)Ala+(-0.0143)Lys+(0.0525)Ile;0.727,0.781,0.695,0.679,0.687,0.790,0.682,0.710,(0.0519)+(0.0460)Ser+(-0.1237)Asn+(-0.0134)Arg+(-0.0006)Pro+(-0.0163)Lys+(0.0459)Ile;0.727,0.771,0.723,0.759,0.721,0.687,0.656,0.706,(-1.3295)+(-0.0007)Gly+(0.0033)Gln+(0.0241)Thr+(-0.0358)Tyr+(-0.3688)Met+(0.1057)Phe;0.727,0.763,0.765,0.797,0.761,0.729,0.713,0.750,(1.5367)+(-0.0513)Asn+(0.0026)Gly+(-0.0284)Tyr+(-0.2020)Met+(-0.0105)Leu+(0.1059)Phe;0.727,0.769,0.789,0.809,0.803,0.818,0.684,0.779,(3.1526)+(-0.0824)Asn+(0.0072)Gln+(0.0229)Thr+(-0.0786)Cit+(-0.2052)Met+(-0.0043)Lys;0.727,0.767,0.738,0.737,0.710,0.813,0.746,0.752,(2.8161)+(-0.0018)Thr+(-0.0667)Cit+(-0.0153)Arg+(-0.0050)Pro+(0.1686)Ile+(-0.0916)Leu;0.727,0.763,0.753,0.733,0.714,0.823,0.837,0.777,(0.8320)+(0.0018)Gln+(-0.0165)Ala+(-0.1021)Cit+(0.0067)Pro+(0.0508)Ile+(0.0172)Phe;0.727,0.779,0.726,0.749,0.731,0.810,0.593,0.721,(-0.0359)+(0.0338)Ser+(0.0000)Gln+(0.0051)Thr+(-0.0019)Tyr+(-0.2802)Met+(0.0144)Orn;0.727,0.776,0.717,0.682,0.761,0.826,0.637,0.727,(1.2906)+(0.0362)Ser+(-0.0059)Gly+(-0.1052)Cit+(-0.0058)Arg+(0.0497)Orn+(-0.0259)Lys;0.727,0.770,0.762,0.779,0.778,0.766,0.678,0.750,(0.9275)+(0.0052)Gly+(-0.0664)Cit+(0.0018)Arg+(-0.0113)Val+(-0.2735)Met+(0.1205)Phe;0.727,0.778,0.770,0.787,0.750,0.833,0.722,0.773,(1.1338)+(0.0455)Ser+(-0.0075)Gly+(0.0015)Tyr+(-0.0034)Val+(-0.2270)Met+(-0.0018)Lys;0.727,0.777,0.762,0.761,0.803,0.834,0.627,0.756,(2.8814)+(0.0038)Gln+(0.0154)Thr+(-0.1055)Cit+(-0.2297)Met+(0.0438)Orn+(-0.0120)Lys;0.727,0.776,0.758,0.788,0.725,0.836,0.687,0.759,(2.5304)+(0.0360)Ser+(-0.1235)Asn+(0.0048)Thr+(-0.0042)Ala+(-0.0195)Tyr+(-0.0048)Lys;0.727,0.765,0.772,0

.775,0.748,0.796,0.797,0.779,(5.3648)+(-0.0627)Asn+(0.0015)Arg+(0.010
7)Pro+(-0.0409)Val+(-0.1918)Met+(0.0625)Leu;0.727,0.781,0.781,0.801,0
.753,0.844,0.740,0.784,(0.6016)+(0.0435)Ser+(-0.0079)Gly+(0.0022)Gln+
(-0.0035)Val+(-0.2326)Met+(-0.0026)Lys;0.727,0.773,0.743,0.730,0.781,
0.758,0.688,0.739,(1.0799)+(-0.0874)Cit+(-0.0004)Arg+(0.0050)Pro+(-0.
2984)Met+(0.0331)Orn+(0.0783)Phe;0.727,0.763,0.759,0.741,0.722,0.829,
0.833,0.781,(1.3529)+(0.0024)Gln+(-0.0158)Ala+(-0.0966)Cit+(-0.0059)A
rg+(0.0073)Pro+(0.0536)Ile;0.727,0.777,0.773,0.794,0.758,0.818,0.715,
0.771,(0.3730)+(0.0452)Ser+(-0.0079)Gly+(0.0027)Gln+(-0.0143)Arg+(-0.
0023)Tyr+(-0.2372)Met;0.727,0.773,0.674,0.637,0.728,0.802,0.569,0.684
,(-1.0157)+(0.0339)Ser+(-0.1187)Cit+(-0.0053)Arg+(0.0468)Orn+(-0.0324
)Lys+(0.0529)Phe;0.727,0.769,0.744,0.737,0.737,0.776,0.752,0.751,(3.0
212)+(-0.0190)Asn+(-0.0183)Tyr+(-0.2030)Met+(0.0174)Orn+(-0.0110)Lys+
(0.0527)Ile;0.727,0.769,0.791,0.807,0.764,0.803,0.795,0.792,(3.2636)+
(-0.1224)Asn+(-0.0053)Ala+(-0.0188)Val+(0.0346)Orn+(-0.0028)Lys+(0.07
64)Phe;0.727,0.764,0.729,0.731,0.704,0.799,0.724,0.739,(1.6128)+(0.00
23)Gln+(-0.0345)Arg+(0.0138)Orn+(-0.0072)Lys+(0.1558)Ile+(-0.0919)Leu
;0.727,0.777,0.774,0.794,0.759,0.822,0.716,0.773,(0.4113)+(0.0453)Ser
+(-0.0079)Gly+(0.0028)Gln+(-0.0135)Arg+(-0.2335)Met+(-0.0022)Lys;0.72
7,0.771,0.719,0.732,0.719,0.761,0.655,0.717,(-1.4247)+(0.0447)Ser+(-0
.1821)Asn+(0.0020)Gln+(-0.0232)Arg+(0.0081)Orn+(0.0515)Phe;0.727,0.77
0,0.671,0.685,0.609,0.698,0.746,0.685,(-2.3817)+(0.0452)Ser+(-0.0094)
Gly+(-0.0133)Thr+(-0.0836)Tyr+(0.0300)Ile+(0.0443)Phe;0.727,0.770,0.6
87,0.724,0.662,0.730,0.612,0.682,(-0.8367)+(0.0273)Ser+(-0.0742)Cit+(
-0.0703)Tyr+(-0.0187)Val+(0.0144)Leu+(0.0865)Phe;0.727,0.770,0.730,0.
728,0.742,0.783,0.675,0.732,(2.0040)+(0.0451)Ser+(-0.1400)Asn+(-0.003
5)Gly+(-0.0627)Cit+(-0.0073)Arg+(0.0044)Pro;0.727,0.772,0.674,0.637,0
.726,0.805,0.570,0.685,(-1.0031)+(0.0331)Ser+(-0.1241)Cit+(-0.0014)Pr

o+(0.0486)Orn+(-0.0334)Lys+(0.0538)Phe;0.727,0.764,0.716,0.713,0.732,0.752,0.666,0.716,(1.7565)+(0.0013)Gly+(0.0221)Thr+(-0.0181)Arg+(-0.3329)Met+(0.0002)Orn+(0.0544)Ile;0.727,0.780,0.705,0.694,0.695,0.799,0.691,0.720,(-0.3864)+(0.0442)Ser+(-0.1337)Asn+(0.0022)Gln+(-0.0150)Arg+(-0.0163)Lys+(0.0438)Ile;0.727,0.765,0.769,0.795,0.736,0.781,0.763,0.769,(3.0373)+(-0.0839)Asn+(-0.0064)Ala+(-0.0507)Tyr+(0.0288)Orn+(-0.0097)Lys+(0.0735)Phe;0.727,0.772,0.720,0.764,0.657,0.729,0.731,0.720,(-0.8622)+(0.0394)Ser+(-0.0101)Gly+(-0.0046)Thr+(-0.0752)Tyr+(-0.0142)Val+(0.0863)Phe;0.727,0.766,0.762,0.761,0.754,0.776,0.772,0.766,(0.7046)+(-0.0458)Asn+(0.0013)Gly+(0.0050)Gln+(0.0015)Pro+(-0.2773)Met+(0.0475)Ile;0.727,0.779,0.742,0.765,0.739,0.834,0.619,0.739,(0.7067)+(0.0319)Ser+(0.0004)Gln+(-0.0059)Val+(-0.2314)Met+(0.0241)Orn+(-0.0042)Lys;0.727,0.767,0.786,0.808,0.801,0.811,0.674,0.774,(2.9737)+(-0.0817)Asn+(0.0073)Gln+(0.0233)Thr+(-0.0748)Cit+(-0.0065)Arg+(-0.2166)Met;0.727,0.766,0.746,0.737,0.745,0.780,0.743,0.752,(2.5371)+(-0.0130)Asn+(0.0027)Gly+(-0.0048)Arg+(-0.2407)Met+(-0.0086)Lys+(0.0584)Ile;0.727,0.764,0.781,0.803,0.789,0.755,0.726,0.768,(-0.9403)+(0.0071)Gln+(-0.0740)Cit+(-0.0051)Arg+(-0.3055)Met+(-0.0069)Leu+(0.1019)Phe;0.727,0.779,0.827,0.840,0.792,0.853,0.851,0.834,(3.2646)+(-0.0942)Asn+(0.0072)Gln+(0.0075)Tyr+(-0.0422)Val+
(-0.1914)Met+(0.0687)Leu;0.727,0.767,0.683,0.704,0.664,0.708,0.647,0.681,(-0.7849)+(0.0394)Ser+(-0.0073)Gly+(-0.0008)Gln+(-0.0763)Cit+(-0.0835)Tyr+(0.0724)Phe;0.727,0.778,0.676,0.661,0.641,0.762,0.724,0.697,(0.0946)+(0.0439)Ser+(-0.0100)Gly+(-0.0581)Tyr+(0.0165)Orn+(-0.0256)Lys+(0.0483)Ile;0.726,0.769,0.792,0.796,0.812,0.828,0.711,0.787,(2.8700)+(-0.0805)Asn+(0.0064)Gln+(-0.1016)Cit+(-0.1535)Met+(0.0440)Orn+(-0.0042)Leu;0.726,0.771,0.723,0.729,0.760,0.730,0.628,0.712,(0.1897)+(0.0063)Gly+(-0.0800)Cit+(0.0023)Arg+(0.0077)Pro+(-0.3290)Met+(0.1004)P

he;0.726,0.770,0.729,0.720,0.690,0.787,0.795,0.748,(1.8793)+(-0.0108)Thr+(-0.0058)Pro+(0.0164)Orn+(-0.0119)Lys+(0.1567)Ile+(-0.0856)Leu;0.726,0.767,0.722,0.728,0.689,0.781,0.736,0.733,(0.6326)+(0.0019)Gly+(-0.0056)Thr+(-0.0335)Arg+(0.1639)Ile+(-0.1039)Leu+(0.0473)Phe;0.726,0.776,0.826,0.845,0.788,0.849,0.840,0.831,(3.3757)+(-0.0923)Asn+(0.0076)Gln+(-0.0053)Arg+(-0.0403)Val+(-0.1727)Met+(0.0658)Leu;0.726,0.767,0.774,0.779,0.749,0.789,0.800,0.779,(5.2416)+(-0.0689)Asn+(0.0112)Pro+(-0.0428)Val+(-0.2023)Met+(0.0060)Lys+(0.0627)Leu;0.726,0.770,0.784,0.783,0.807,0.821,0.713,0.781,(2.5567)+(-0.0737)Asn+(0.0063)Gln+(-0.0998)Cit+(0.0046)Pro+(-0.1865)Met+(0.0389)Orn;0.726,0.763,0.745,0.758,0.707,0.804,0.747,0.754,(1.3109)+(-0.0003)Gly+(0.0032)Gln+(-0.0364)Arg+(-0.0058)Pro+(0.1713)Ile+(-0.0980)Leu;0.726,0.775,0.778,0.797,0.751,0.787,0.774,0.777,(2.3536)+(-0.1146)Asn+(0.0073)Gln+(-0.0824)Cit+(0.0005)Pro+(-0.0499)Tyr+(0.0380)Ile;0.726,0.772,0.759,0.797,0.740,0.821,0.650,0.752,(3.1057)+(0.0375)Ser+(-0.1253)Asn+(-0.0121)Arg+(-0.0159)Tyr+(-0.0088)Val+(0.0015)Lys;0.726,0.771,0.680,0.712,0.687,0.737,0.543,0.670,(-0.9985)+(0.0239)Ser+(-0.1119)Cit+(-0.0816)Tyr+(0.0418)Orn+(-0.0193)Leu+(0.0868)Phe;0.726,0.769,0.725,0.732,0.693,0.784,0.730,0.735,(0.1817)+(0.0018)Gln+(-0.0402)Arg+(0.0075)Orn+(0.1607)Ile+(-0.1045)Leu+(0.0412)Phe;0.726,0.768,0.760,0.766,0.784,0.822,0.649,0.755,(4.2781)+(0.0006)Gly+(-0.0961)Cit+(-0.0134)Tyr+(-0.0088)Val+(-0.1522)Met+(0.0561)Orn;0.726,0.768,0.732,0.760,0.761,0.721,0.608,0.712,(0.1259)+(0.0015)Gly+(0.0283)Thr+(-0.0214)Arg+(-0.3663)Met+(-0.0096)Leu+(0.1083)Phe;0.726,0.772,0.641,0.647,0.606,0.732,0.634,0.655,(-1.8687)+(0.0343)Ser+(-0.0001)Pro+(-0.0689)Tyr+(-0.0281)Lys+(0.0444)Ile+(0.0558)Phe;0.726,0.771,0.673,0.675,0.600,0.796,0.732,0.701,(-0.2770)+(0.0300)Ser+(-0.0035)Gln+(-0.0107)Ala+(-0.0469)Tyr+(0.0046)Orn+(0.0573)Ile;0.726,0.769,0.802,0.805,0.753,0.853,0.859,0.817,(2.1235)+(-0.0820)Asn+(0.0

051)Gln+(-0.0096)Ala+(-0.0102)Arg+(-0.0124)Lys+(0.0512)Ile;0.726,0.77
4,0.752,0.771,0.753,0.725,0.720,0.742,(-1.4924)+(0.0015)Gly+(0.0037)G
ln+(0.0065)Pro+(-0.3681)Met+(0.0026)Orn+(0.0874)Phe;0.726,0.763,0.757
,0.761,0.779,0.738,0.712,0.747,(1.6651)+(-0.0608)Cit+(0.0081)Pro+(-0.
2778)Met+(-0.0042)Lys+(-0.0085)Leu+(0.0989)Phe;0.726,0.770,0.791,0.80
4,0.787,0.785,0.766,0.785,(2.0333)+(-0.0039)Ala+(-0.0605)Cit+(0.0028)
Arg+(-0.0092)Val+(-0.2277)Met+(0.1111)Phe;0.726,0.778,0.770,0.787,0.7
48,0.825,0.731,0.773,(0.2743)+(0.0450)Ser+(-0.0079)Gly+(0.0021)Gln+(-
0.0013)Tyr+(-0.2395)Met+(-0.0041)Lys;0.726,0.772,0.775,0.785,0.749,0.
836,0.757,0.782,(2.3448)+(0.0459)Ser+(-0.1248)Asn+(-0.0061)Gly+(0.002
7)Thr+(-0.0054)Ala+(-0.0125)Arg;0.726,0.765,0.748,0.775,0.745,0.722,0
.705,0.737,(1.1853)+(-0.0518)Asn+(0.0021)Gly+(-0.0330)Tyr+(-0.2189)Me
t+(0.0172)Orn+(0.0896)Phe;0.726,0.769,0.753,0.767,0.734,0.805,0.719,0
.756,(1.3222)+(0.0019)Gln+(-0.0105)Ala+(-0.1190)Cit+(-0.0563)Tyr+(0.0
499)Orn+(0.0640)Phe;0.726,0.769,0.746,0.740,0.787,0.806,0.635,0.742,(
3.8878)+(-0.0560)Asn+(0.0039)Gly+(-0.1003)Cit+(0.0055)Pro+(-0.1736)Me
t+(0.0449)Orn;0.726,0.768,0.738,0.760,0.767,0.730,0.628,0.721,(0.3310
)+(0.0266)Thr+(-0.0225)Arg+(-0.3558)Met+(0.0109)Orn+(-0.0117)Leu+(0.1
044)Phe;0.726,0.766,0.699,0.681,0.692,0.800,0.689,0.715,(1.2114)+(0.0
014)Gly+(-0.0005)Gln+(-0.1096)Cit+(0.0308)Orn+(0.1500)Ile+(-0.0904)Le
u;0.726,0.772,0.670,0.666,0.652,0.737,0.668,0.681,(0.2340)+(0.0367)Se
r+(-0.0064)Gly+(-0.0011)Gln+(-0.0734)Cit+(-0.0689)Tyr+(0.0425)Ile;0.7
26,0.768,0.738,0.759,0.715,0.818,0.671,0.741,(2.2513)+(0.0345)Ser+(-0
.1745)Asn+(0.0016)Gln+(0.0078)Pro+(-0.0176)Val+(0.0256)Orn;0.726,0.76
7,0.774,0.782,0.740,0.846,0.774,0.786,(2.4659)+(0.0464)Ser+(-0.1224)A
sn+(-0.0067)Gly+(0.0032)Thr+(-0.0050)Ala+(-0.0078)Lys;0.726,0.769,0.6
78,0.647,0.727,0.799,0.573,0.686,(-0.9457)+(0.0322)Ser+(-0.1222)Cit+(
0.0487)Orn+(-0.0316)Lys+(-0.0072)Leu+(0.0585)Phe;0.726,0.769,0.694,0.

699,0.714,0.786,0.572,0.693,(1.0965)+(0.0283)Ser+(-0.0013)Gln+(-0.012
6)Thr+(-0.1063)Cit+(-0.0502)Tyr+(0.0477)Orn;0.726,0.763,0.738,0.736,0
.716,0.824,0.724,0.750,(1.0166)+(0.0324)Ser+(-0.0101)Thr+(-0.0120)Ala
+(-0.0804)Cit+(-0.0076)Arg+(0.0144)Pro;0.726,0.769,0.791,0.805,0.789,
0.783,0.764,0.785,(2.0940)+(-0.0039)Ala+(-0.0580)Cit+(-0.0095)Val+(-0
.2258)Met+(0.0004)Lys+(0.1113)Phe;0.726,0.767,0.759,0.805,0.747,0.734
,0.678,0.741,(3.0421)+(-0.0930)Asn+(-0.0156)Arg+(-0.0618)Tyr+(0.0333)
Orn+(-0.0224)Leu+(0.0883)Phe;0.726,0.765,0.762,0.781,0.778,0.748,0.68
6,0.748,(0.5544)+(0.0020)Gly+(-0.0148)Arg+(-0.2796)Met+(0.0208)Orn+(-
0.0124)Leu+(0.0951)Phe;0.726,0.768,0.785,0.785,0.731,0.826,0.867,0.80
2,(1.1518)+(-0.1203)Asn+(0.0034)Gln+(-0.0123)Ala+(0.0054)Pro+(0.0323)
Ile+(0.0283)Phe;0.726,0.768,0.749,0.744,0.731,0.841,0.735,0.763,(2.03
22)+(0.0363)Ser+(-0.0042)Gly+(-0.0110)Ala+(-0.0793)Cit+(0.0136)Pro+(-
0.0145)Lys;0.726,0.770,0.743,0.755,0.681,0.797,0.804,0.759,(1.7679)+(
-0.0096)Ala+(-0.0508)Tyr+(0.0173)Orn+(-0.0202)Lys+(0.0484)Ile+(0.0463
)Phe;0.726,0.764,0.778,0.772,0.737,0.818,0.848,0.794,(2.3174)+(-0.086
5)Asn+(-0.0122)Ala+(-0.0121)Arg+(0.0065)Pro+(0.0343)Ile+(0.0307)Phe;0
.726,0.763,0.757,0.737,0.718,0.829,0.839,0.781,(1.3259)+(0.0022)Gln+(
-0.0018)Thr+(-0.0160)Ala+(-0.1004)Cit+(0.0073)Pro+(0.0541)Ile;0.726,0
.771,0.766,0.761,0.798,0.824,0.673,0.764,(2.6141)+(0.0045)Gln+(-0.100
7)Cit+(0.0055)Pro+(-0.2110)Met+(0.0450)Orn+(-0.0109)Lys;0.726,0.771,0
.749,0.764,0.701,0.838,0.747,0.762,(1.3799)+(0.0370)Ser+(-0.1464)Asn+
(0.0014)Gln+(-0.0088)Ala+(0.0114)Pro+(-0.0033)Leu;0.726,0.768,0.730,0
.746,0.714,0.824,0.655,0.735,(2.6462)+(0.0363)Ser+(-0.1578)Asn+(0.007
9)Pro+(-0.0162)Val+(0.0282)Orn+(-0.0047)Lys;0.726,0.774,0.713,0.676,0
.756,0.825,0.638,0.724,(1.2261)+(0.0355)Ser+(-0.0058)Gly+(-0.1103)Cit
+(0.0506)Orn+(-0.0273)Lys+(-0.0001)Leu;0.726,0.765,0.747,0.733,0.718,
0.830,0.789,0.767,(1.5760)+(0.0041)Gly+(0.0005)Thr+(-0.0142)Ala+(-0.0

991)Cit+(-0.0030)Arg+(0.0624)Ile;0.726,0.770,0.766,0.776,0.759,0.806,0.726,0.767,(1.4136)+(0.0413)Ser+(-0.1616)Asn+(-0.0044)Gly+(0.0049)Gln+(-0.0712)Cit+(-0.0041)Leu;0.726,0.771,0.762,0.770,0.754,0.800,0.731,0.763,(1.0763)+(0.0426)Ser+(-0.1600)Asn+(-0.0041)Gly+(0.0049)Gln+(-0.0032)Thr+(-0.0724)Cit;0.726,0.771,0.718,0.718,0.721,0.760,0.682,0.720,(2.8078)+(0.0258)Thr+(-0.0137)Arg+(-0.0202)Tyr+(-0.2793)Met+(-0.0108)Lys+(0.0611)Ile;0.726,0.776,0.727,0.757,0.723,0.798,0.605,0.721,(2.1070)+(0.0383)Ser+(-0.1204)Asn+(-0.0140)Arg+(-0.0321)Tyr+(0.0283)Orn+(-0.0065)Lys;0.726,0.776,0.764,0.787,0.739,0.841,0.700,0.767,(1.9436)+(0.0383)Ser+(-0.1265)Asn+(0.0022)Thr+(-0.0055)Ala+(-0.0127)Arg+(0.0016)Leu;0.726,0.776,0.703,0.735,0.633,0.789,0.701,0.715,(-0.9291)+(0.0314)Ser+(-0.0095)Ala+(0.0112)Pro+(-0.0564)Tyr+(-0.0189)Lys+(0.0750)Phe;0.726,0.773,0.721,0.749,0.740,0.718,0.609,0.704,(0.8905)+(0.0345)Thr+(-0.0181)Arg+(-0.0378)Tyr+(-0.3200)Met+(-0.0090)Lys+(0.1147)Phe;0.726,0.772,0.774,0.799,0.748,0.820,0.730,0.774,(3.5836)+(0.0477)Ser+(-0.1170)Asn+(-0.0076)Gly+(-0.0112)Arg+(-0.0205)Tyr+(-0.0084)Val;0.726,0.763,0.742,0.726,0.723,0.836,0.753,0.760,(3.0782)+(-0.0126)Ala+(-0.1118)Cit+(0.0105)Pro+(-0.0269)Val+(0.0550)Orn+(0.0343)Leu;0.726,0.770,0.681,0.665,0.674,0.744,0.694,0.694,(-1.6589)+(0.0454)Ser+(-0.1946)Asn+(-0.0023)Pro+(0.0015)Orn+(0.0225)Ile+(0.0365)Phe;0.726,0.766,0.751,0.736,0.788,0.813,0.667,0.751,(3.9895)+(-0.0996)Cit+(0.0031)Arg+(0.0055)Pro+(-0.1909)Met+(0.0498)Orn+(-0.0101)Lys;0.726,0.768,0.710,0.721,0.727,0.801,0.579,0.707,(1.1412)+(0.0258)Ser+(-0.0129)Thr+(-0.1072)Cit+(-0.0474)Tyr+(0.0494)Orn+(-0.0062)Leu;0.726,0.766,0.749,0.772,0.732,0.791,0.693,0.747,(2.7792)+(0.0468)Ser+(-0.1222)Asn+(-0.0076)Gly+(0.0063)Thr+(-0.0142)Arg+(-0.0376)Tyr;0.726,0.762,0.772,0.796,0.782,0.744,0.706,0.757,(1.2400)+(-0.0425)Asn+(0.0033)Gly+(-0.0079)Arg+(-0.2425)Met+(-0.0101)Leu+(0.0992)Phe;0.726,0.777,0.748,0.741,0.797,0.822,0.60

6,0.742,(4.0999)+(0.0179)Thr+(-0.1023)Cit+(-0.0018)Arg+(-0.2178)Met+(0.0470)Orn+(-0.0107)Lys;0.726,0.776,0.782,0.809,0.751,0.761,0.790,0.778,(4.2937)+(-0.1130)Asn+(-0.0471)Cit+(-0.0442)Tyr+(-0.0310)Val+(0.0352)Leu+(0.0942)Phe;0.726,0.768,0.763,0.767,0.788,0.804,0.672,0.758,(5.1004)+(-0.0604)Asn+(-0.0983)Cit+(-0.0250)Tyr+(-0.0902)Met+(0.0551)Orn+(-0.0048)Leu;0.726,0.762,0.754,0.741,0.716,0.834,0.809,0.775,(0.9324)+(0.0036)Gly+(0.0018)Gln+(-0.0021)Thr+(-0.0146)Ala+(-0.1036)Cit+(0.0621)Ile;0.726,0.773,0.768,0.783,0.730,0.823,0.770,0.776,(2.4650)+(0.0469)Ser+(-0.1218)Asn+(-0.0069)Gly+(-0.0044)Ala+(-0.0269)Tyr+(0.0032)Leu;0.726,0.772,0.730,0.719,0.749,0.773,0.687,0.732,(2.5295)+(0.0048)Gly+(-0.0759)Cit+(0.0030)Pro+(-0.0105)Tyr+(-0.2543)Met+(0.0567)Ile;0.726,0.780,0.741,0.763,0.740,0.835,0.618,0.739,(0.7590)+(0.0326)Ser+(0.0025)Tyr+(-0.0060)Val+(-0.2340)Met+(0.0242)Orn+(-0.0041)Lys;0.726,0.777,0.693,0.753,0.677,0.751,0.527,0.677,(-1.2752)+(0.0285)Ser+(-0.0333)Arg+(-0.0724)Tyr+(0.0203)Orn+(-0.0215)Leu+(0.0888)Phe;0.726,0.766,0.755,0.768,0.735,0.812,0.719,0.758,(3.3251)+(0.0483)Ser+(-0.1367)Asn+(-0.0067)Gly+(-0.0155)Arg+(0.0099)Pro+(-0.0150)Val;0.726,0.764,0.768,0.777,0.755,0.831,0.722,0.771,(4.8056)+(-0.0970)Asn+(0.0040)Gly+(0.0109)Thr+(-0.0107)Ala+(-0.0852)Cit+(0.0124)Pro;0.726,0.762,0.727,0.719,0.734,0.748,0.719,0.730,(1.9499)+(-0.0330)Asn+(0.0192)Thr+(0.0012)Pro+(-0.3145)Met+(-0.0008)Orn+(0.0492)Ile;0.726,0.768,0.677,0.708,0.641,0.705,0.652,0.677,(-1.2531)+(0.0454)Ser+(-0.0099)Gly+(-0.0297)Arg+(0.0059)Pro+(-0.0884)Tyr+(0.0673)Phe;0.726,0.766,0.723,0.713,0.715,0.819,0.696,0.736,(1.5911)+(0.0019)Gln+(-0.0878)Cit+(-0.0236)Arg+(0.0308)Orn+(0.1553)Ile+(-0.0937)Leu;0.726,0.764,0.763,0.762,0.755,0.777,0.768,0.766,(0.6901)+(-0.0466)Asn+(0.0013)Gly+(0.0049)Gln+(-0.2732)Met+(0.0022)Orn+(0.0483)Ile;0.726,0.777,0.690,0.685,0.662,0.771,0.704,0.705,(0.2953)+(0.0462)Ser+(-0.0087)Gly+(-0.0165)Arg+(-0.0520)Tyr+(-0.0198)

Lys+(0.0514)Ile;0.726,0.772,0
.775,0.787,0.771,0.824,0.714,0.774,(4.4905)+(0.0040)Gly+(-0.0089)Ala+
(-0.0769)Cit+(0.0161)Pro+(-0.0021)Tyr+(-0.1599)Met;0.726,0.766,0.780,
0.795,0.784,0.818,0.707,0.776,(2.4038)+(0.0048)Gln+(0.0215)Thr+(-0.00
62)Ala+(-0.0860)Cit+(-0.2553)Met+(0.0126)Leu;0.726,0.774,0.711,0.674,
0.756,0.824,0.635,0.722,(1.3310)+(0.0359)Ser+(-0.0057)Gly+(-0.0004)Gl
n+(-0.1100)Cit+(0.0509)Orn+(-0.0271)Lys;0.726,0.766,0.773,0.791,0.754
,0.826,0.727,0.774,(5.2769)+(-0.0700)Asn+(0.0041)Gly+(-0.0093)Ala+(-0
.0765)Cit+(0.0144)Pro+(-0.0217)Tyr;0.726,0.761,0.730,0.730,0.726,0.75
4,0.720,0.733,(0.2285)+(0.0001)Gly+(0.0033)Gln+(0.0168)Thr+(-0.3640)M
et+(-0.0073)Orn+(0.0555)Ile;0.726,0.769,0.696,0.735,0.674,0.736,0.610
,0.689,(-0.9481)+(0.0295)Ser+(-0.0045)Thr+(-0.0752)Cit+(-0.0678)Tyr+(
-0.0113)Val+(0.0922)Phe;0.726,0.767,0.744,0.748,0.748,0.795,0.690,0.7
45,(2.4157)+(0.0444)Ser+(-0.1380)Asn+(-0.0040)Gly+(-0.0004)Thr+(-0.06
35)Cit+(-0.0028)Leu;0.726,0.767,0.651,0.656,0.648,0.749,0.570,0.656,(
-0.0292)+(0.0306)Ser+(-0.0008)Gln+(-0.0700)Cit+(-0.0156)Arg+(-0.0601)
Tyr+(0.0454)Ile;0.726,0.761,0.803,0.829,0.755,0.807,0.832,0.805,(2.34
18)+(-0.1400)Asn+(0.0043)Gln+(-0.0076)Ala+(0.0104)Pro+(-0.0180)Val+(0
.0728)Phe;0.726,0.769,0.711,0.699,0.710,0.815,0.671,0.724,(1.9092)+(0
.0022)Gly+(-0.0906)Cit+(-0.0217)Arg+(0.0328)Orn+(0.1552)Ile+(-0.0926)
Leu;0.726,0.773,0.764,0.782,0.730,0.844,0.730,0.772,(1.2105)+(0.0354)
Ser+(-0.1527)Asn+(0.0016)Gln+(-0.0062)Ala+(0.0197)Orn+(-0.0024)Leu;0.
726,0.768,0.783,0.780,0.747,0.826,0.834,0.797,(2.2515)+(-0.0999)Asn+(
0.0099)Thr+(-0.0111)Ala+(-0.0156)Arg+(0.0367)Ile+(0.0335)Phe;0.725,0.
764,0.721,0.717,0.735,0.752,0.679,0.721,(1.9371)+(0.0224)Thr+(-0.0179
)Arg+(0.0014)Pro+(-0.3338)Met+(0.0007)Orn+(0.0517)Ile;0.725,0.764,0.7
15,0.739,0.707,0.751,0.643,0.710,(1.6193)+(-0.0989)Cit+(-0.0707)Tyr+(
-0.0251)Val+(0.0538)Orn+(0.0177)Leu+(0.0749)Phe;0.725,0.762,0.763,0.7

70,0.784,0.737,0.718,0.752,(2.0754)+(-0.0333)Asn+(-0.0601)Cit+(0.0079)Pro+(-0.2499)Met+(-0.0116)Leu+(0.0975)Phe;0.725,0.778,0.735,0.758,0.741,0.801,0.615,0.729,(-0.4129)+(0.0381)Ser+(0.0016)Gln+(-0.0133)Arg+(0.0030)Tyr+(-0.2717)Met+(0.0091)Leu;0.725,0.771,0.718,0.731,0.718,0.753,0.661,0.716,(-1.4650)+(0.0451)Ser+(-0.1817)Asn+(0.0022)Gln+(-0.0227)Arg+(0.0013)Pro+(0.0531)Phe;0.725,0.768,0.767,0.765,0.761,0.793,0.762,0.770,(4.6282)+(-0.0452)Cit+(0.0108)Pro+(-0.0347)Val+(-0.2457)Met+(0.0027)Lys+(0.0544)Leu;0.725,0.763,0.725,0.717,0.684,0.783,0.790,0.743,(1.3831)+(0.0011)Gln+(-0.0129)Thr+(0.0127)Orn+(-0.0120)Lys+(0.1476)Ile+(-0.0845)Leu;0.725,0.773,0.753,0.723,0.795,0.804,0.708,0.757,(3.3308)+(-0.0948)Asn+(-0.1125)Cit+(0.0075)Arg+(0.0529)Orn+(-0.0198)Lys+(0.0443)Phe;0.725,0.766,0.734,0.727,0.729,0.773,0.739,0.742,(2.4741)+(0.0012)Gly+(-0.0147)Tyr+(-0.2311)Met+(0.0145)Orn+(-0.0119)Lys+(0.0565)Ile;0.725,0.773,0.766,0.764,0.769,0.790,0.751,0.768,(1.1336)+(0.0061)Gln+(-0.0774)Cit+(-0.0023)Arg+(-0.0129)Tyr+(-0.2681)Met+(0.0568)Ile;0.725,0.767,0.744,0.756,0.729,0.801,0.699,0.746,(1.8675)+(0.0044)Thr+(-0.0105)Ala+(-0.1178)Cit+(-0.0574)Tyr+(0.0501)Orn+(0.0645)Phe;0.725,0.767,0.738,0.759,0.765,0.735,0.631,0.722,(0.6372)+(0.0301)Thr+(-0.0182)Arg+(-0.3525)Met+(-0.0068)Lys+(-0.0067)Leu+(0.1068)Phe;0.725,0.774,0.699,0.748,0.678,0.762,0.565,0.688,(-1.1067)+(0.0342)Ser+(-0.0234)Arg+(-0.0631)Tyr+(-0.0128)Lys+(-0.0114)Leu+(0.0904)Phe;0.725,0.773,0.760,0.758,0.757,0.761,0.770,0.762,(4.1662)+(-0.1815)Asn+(0.0223)Thr+(-0.0505)Cit+(-0.0429)Val+(0.0486)Leu+(0.0739)Phe;0.725,0.770,0.737,0.728,0.730,0.772,0.749,0.745,(2.6964)+(0.0022)Pro+(-0.0177)Tyr+(-0.2291)Met+(0.0153)Orn+(-0.0116)Lys+(0.0528)Ile;0.725,0.772,0.687,0.669,0.630,0.768,0.799,0.716,(-2.4092)+(0.0281)Ser+(-0.0084)Gly+(-0.0081)Pro+(0.1571)Ile+(-0.0976)Leu+(0.0346)Phe;0.725,0.768,0.775,0.807,0.771,0.744,0.717,0.760,(-0.8010)+(0.0070)Gln+(-0.0775)Cit+(-0.0283)Tyr+(-0

.2718)Met+(-0.0071)Leu+(0.1116)Phe;0.725,0.762,0.735,0.729,0.710,0.82
3,0.742,0.751,(0.8128)+(0.0322)Ser+(-0.0125)Thr+(-0.0125)Ala+(-0.0869
)Cit+(0.0144)Pro+(0.0014)Leu;0.725,0.777,0.826,0.843,0.786,0.845,0.84
8,0.831,(3.3398)+(-0.0969)Asn+(0.0071)Gln+(-0.0417)Val+(-0.1813)Met+(
0.0019)Lys+(0.0674)Leu;0.725,0.770,0.685,0.684,0.659,0.749,0.696,0.69
7,(-0.1988)+(0.0394)Ser+(-0.0061)Gly+(-0.0093)Thr+(-0.0721)Cit+(-0.06
25)Tyr+(0.0433)Ile;0.725,0.767,0.761,0.772,0.778,0.813,0.657,0.755,(3
.7979)+(0.0021)Gly+(0.0241)Thr+(-0.0062)Ala+(-0.0827)Cit+(-0.2397)Met
+(0.0137)Leu;0.725,0.766,0.765,0.779,0.727,0.817,0.767,0.773,(5.4002)
+(-0.1288)Asn+(0.0003)Gly+(-0.0252)Tyr+(-0.0429)Val+(0.0435)Orn+(0.05
67)Leu;0.725,0.762,0.741,0.750,0.704,0.803,0.751,0.752,(1.4719)+(0.00
33)Gln+(-0.0049)Thr+(-0.0313)Arg+(-0.0048)Lys+(0.1606)Ile+(-0.0928)Le
u;0.725,0.772,0.734,0.772,0.667,0.768,0.750,0.739,(-0.9116)+(0.0367)S
er+(-0.0092)Gly+(-0.0065)Ala+(-0.0691)Tyr+(-0.0114)Leu+(0.0815)Phe;0.
725,0.769,0.787,0.798,0.745,0.838,0.810,0.798,(1.2800)+(0.0445)Ser+(-
0.1475)Asn+(-0.0065)Gly+(0.0031)Gln+(-0.0013)Thr+(-0.0057)Ala;0.725,0
.759,0.740,0.741,0.712,0.831,0.729,0.753,(1.2487)+(0.0310)Ser+(-0.011
3)Thr+(-0.0115)Ala+(-0.0814)Cit+(0.0152)Pro+(-0.0042)Val;0.725,0.770,
0.728,0.724,0.734,0.780,0.690,0.732,(1.8527)+(0.0456)Ser+(-0.1411)Asn
+(-0.0033)Gly+(-0.0036)Thr+(-0.0668)Cit+(0.0045)Pro;0.725,0.769,0.777
,0.784,0.795,0.837,0.677,0.773,(2.9171)+(0.0000)Gly+(0.0036)Gln+(-0.0
965)Cit+(-0.0089)Val+(-0.1946)Met+(0.0494)Orn;0.725,0.763,0.726,0.741
,0.720,0.798,0.648,0.727,(3.2904)+(0.0002)Gln+(-0.0985)Cit+(-0.0491)T
yr+(-0.0270)Val+(0.0563)Orn+(0.0307)Leu;0.725,0.767,0.747,0.753,0.738
,0.812,0.705,0.752,(3.3713)+(0.0449)Ser+(-0.1433)Asn+(-0.0046)Gly+(-0
.0527)Cit+(0.0092)Pro+(-0.0124)Val;0.725,0.765,0.726,0.757,0.727,0.76
0,0.620,0.716,(1.9300)+(-0.0905)Cit+(-0.0122)Arg+(-0.0681)Tyr+(-0.016
8)Val+(0.0549)Orn+(0.0846)Phe;0.725,0.776,0.772,0.793,0.757,0.824,0.7

08,0.770,(1.5512)+(0.0461)Ser+(-0.0075)Gly+(-0.0122)Arg+(-0.0041)Val+(-0.2124)Met+(0.0007)Lys;0.725,0.772,0.731,0.714,0.756,0.774,0.692,0.734,(2.2236)+(0.0051)Gly+(-0.0803)Cit+(0.0035)Arg+(0.0024)Pro+(-0.2765)Met+(0.0570)Ile;0.725,0.761,0.762,0.763,0.757,0.825,0.724,0.767,(1.9409)+(-0.0100)Ala+(-0.1055)Cit+(-0.0105)Arg+(-0.0130)Val+(0.0555)Orn+(0.0584)Phe;0.725,0.775,0.752,0.777,0.715,0.831,0.705,0.757,(2.0374)+(0.0389)Ser+(-0.1174)Asn+(-0.0047)Ala+(-0.0190)Tyr+(-0.0060)Lys+(0.0072)Leu;0.725,0.770,0.775,0.786,0.791,0.832,0.667,0.769,(3.1151)+(0.0036)Gln+(-0.0973)Cit+(-0.0136)Tyr+(-0.0085)Val+(-0.1731)Met+(0.0512)Orn;0.725,0.768,0.686,0.674,0.674,0.744,0.703,0.699,(-1.9020)+(0.0447)Ser+(-0.1998)Asn+(0.0011)Gln+(-0.0024)Pro+(0.0226)Ile+(0.0364)Phe;0.725,0.764,0.740,0.739,0.690,0.797,0.808,0.759,(1.3851)+(0.0018)Gln+(-0.0104)Thr+(-0.0054)Pro+(-0.0114)Lys+(0.1592)Ile+(-0.0855)Leu;0.725,0.766,0.787,0.790,0.780,0.818,0.774,0.790,(3.3859)+(-0.1139)Asn+(0.0159)Thr+(-0.0097)Ala+(-0.0810)Cit+(-0.0012)Arg+(0.0631)Phe;0.725,0.765,0.755,0.743,0.720,0.835,0.798,0.774,(0.9616)+(0.0034)Gly+(0.0020)Gln+(-0.0144)Ala+(-0.1000)Cit+(-0.0053)Arg+(0.0615)Ile;0.725,0.775,0.707,0.681,0.754,0.829,0.587,0.713,(0.9036)+(0.0323)Ser+(-0.0112)Thr+(-0.1138)Cit+(-0.0016)Arg+(0.0541)Orn+(-0.0230)Lys;0.725,0.766,0.759,0.798,0.731,0.763,0.710,0.751,(2.9983)+(-0.1094)Asn+(0.0231)Thr+(-0.0069)Ala+(-0.0174)Arg+(-0.0622)Tyr+(0.0854)Phe;0.725,0.775,0.728,0.732,0.767,0.793,0.590,0.720,(3.6299)+(0.0169)Thr+(-0.0992)Cit+(0.0071)Pro+(-0.0258)Tyr+(-0.2424)Met+(0.0396)Orn;0.725,0.774,0.739,0.757,0.727,0.724,0.730,0.734,(2.9480)+(-0.0874)Asn+(-0.0701)Cit+(0.0018)Pro+(-0.0649)Tyr+(0.0276)Ile+(0.0588)Phe;0.725,0.769,0.720,0.737,0.741,0.721,0.627,0.707,(0.6022)+(0.0058)Gly+(-0.0750)Cit+(0.0088)Pro+(-0.0270)Tyr+(-0.2909)Met+(0.1071)Phe;0.725,0.768,0.789,0.816,0.737,0.787,0.825,0.791,(3.9507)+(-0.1160)Asn+(-0.0041)Ala+(-0.0372)Tyr+(-0.0338)Val+(0.0422

)Leu+(0.0885)Phe;0.725,0.767,0.782,0.804,0.778,0.771,0.741,0.774,(0.7896)+(0.0028)Gly+(-0.0047)Ala+(-0.0096)Arg+(-0.2525)Met+(-0.0048)Leu+(0.1000)Phe;0.725,0.776,0.704,0.677,0.752,0.826,0.589,0.711,(0.8413)+(0.0325)Ser+(-0.0115)Thr+(-0.1153)Cit+(0.0541)Orn+(-0.0237)Lys+(0.0009)Leu;0.725,0.767,0.766,0.763,0.759,0.776,0.783,0.770,(0.7909)+(-0.0448)Asn+(0.0051)Gln+(0.0015)Pro+(-0.2762)Met+(0.0026)Orn+(0.0457)Ile;0.725,0.771,0.770,0.773,0.737,0.837,0.783,0.783,(2.1276)+(0.0480)Ser+(-0.1179)Asn+(-0.0064)Gly+(-0.0054)Ala+(-0.0086)Lys+(0.0050)Leu;0.725,0.768,0.754,0.742,0.755,0.776,0.767,0.760,(2.8754)+(-0.0085)Asn+(-0.0041)Arg+(0.0022)Pro+(-0.2446)Met+(-0.0086)Lys+(0.0543)Ile;0.725,0.769,0.747,0.749,0.744,0.793,0.715,0.750,(0.9734)+(0.0418)Ser+(-0.1677)Asn+(-0.0038)Gly+(0.0044)Gln+(-0.0747)Cit+(0.0032)Pro;0.725,0.769,0.762,0.765,0.792,0.826,0.648,0.757,(4.1325)+(0.0011)Gly+(-0.0935)Cit+(-0.0032)Arg+(-0.0093)Val+(-0.1694)Met+(0.0548)Orn;0.725,0.768,0.699,0.679,0.679,0.758,0.753,0.717,(-0.5767)+(0.0521)Ser+(-0.1551)Asn+(-0.0046)Gly+(-0.0093)Thr+(-0.0010)Pro+(0.0319)Ile;0.725,0.764,0.789,0.808,0.802,0.831,0.682,0.781,(5.7462)+(-0.0606)Asn+(0.0260)Thr+(-0.0038)Ala+(-0.0660)Cit+(-0.0040)Val+(-0.1583)Met;0.725,0.763,0.725,0.739,0.721,0.797,0.646,0.726,(3.3470)+(0.0005)Thr+(-0.0984)Cit+(-0.0492)Tyr+(-0.0271)Val+(0.0564)Orn+(0.0309)Leu;0.725,0.767,0.742,0.754,0.778,0.783,0.604,0.730,(4.3659)+(-0.0554)Asn+(0.0030)Gly+(0.0227)Thr+(-0.0762)Cit+(0.0076)Pro+(-0.2353)Met;0.725,0.766,0.752,0.729,0.719,0.817,0.833,0.775,(1.5783)+(-0.0160)Ala+(-0.0940)Cit+(-0.0043)Arg+(0.0073)Pro+(0.0498)Ile+(0.0209)Phe;0.725,0.768,0.707,0.697,0.693,0.737,0.743,0.717,(-1.1210)+(0.0535)Ser+(-0.1761)Asn+(-0.0046)Gly+(-0.0084)Thr+(0.0014)Pro+(0.0473)Phe;0.725,0.766,0.783,0.805,0.768,0.766,0.765,0.776,(1.4064)+(-0.0042)Ala+(-0.0212)Tyr+(-0.2188)Met+(-0.0042)Lys+(-0.0037)Leu+(0.1023)Phe;0.725,0.776,0.686,0.662,0.676,0.792,0.693,0.706,(-0.4475)

+(0.0438)Ser+(-0.1429)Asn+(0.0011)Gln+(0.0106)Orn+(-0.0198)Lys+(0.041
1)Ile;0.725,0.767,0.793,0.801,0.771,0.811,0.808,0.798,(4.1078)+(-0.10
19)Asn+(-0.0089)Ala+(-0.0631)Cit+(0.0122)Pro+(-0.0140)Val+(0.0799)Phe
;0.725,0.765,0.683,0.719,0.666,0.728,0.589,0.675,(-0.5971)+(0.0295)Se
r+(-0.0013)Gln+(-0.0742)Cit+(-0.0696)Tyr+(-0.0118)Val+(0.0936)Phe;0.7
25,0.771,0.746,0.763,0.772,0.779,0.627,0.735,(5.0021)+(-0.0542)Asn+(0
.0251)Thr+(-0.0702)Cit+(0.0084)Pro+(-0.0214)Tyr+(-0.2061)Met;0.725,0.
774,0.728,0.744,0.725,0.748,0.680,0.724,(4.3121)+(-0.0983)Asn+(0.0169
)Thr+(-0.0717)Cit+(-0.0047)Arg+(-0.0556)Tyr+(0.0396)Ile;0.725,0.764,0
.767,0.783,0.777,0.742,0.720,
0.755,(2.6190)+(-0.0332)Asn+(-0.0598)Cit+(-0.0270)Tyr+(-0.1871)Met+(-
0.0040)Lys+(0.0998)Phe;0.725,0.775,0.756,0.755,0.733,0.828,0.759,0.76
9,(5.2579)+(-0.1590)Asn+(0.0168)Thr+(-0.0495)Val+(0.0375)Orn+(-0.0075
)Lys+(0.0664)Leu;0.725,0.772,0.803,0.841,0.789,0.837,0.708,0.794,(3.4
157)+(-0.0982)Asn+(0.0058)Gln+(0.0209)Thr+(-0.0097)Tyr+(-0.0097)Val+(
-0.1703)Met;0.725,0.767,0.772,0.797,0.764,0.781,0.715,0.764,(3.1234)+
(-0.1314)Asn+(0.0023)Gly+(-0.0153)Arg+(-0.0227)Val+(0.0363)Orn+(0.074
9)Phe;0.725,0.767,0.747,0.749,0.719,0.806,0.758,0.758,(5.0568)+(-0.17
18)Asn+(0.0135)Thr+(0.0050)Pro+(-0.0508)Val+(0.0339)Orn+(0.0622)Leu;0
.725,0.766,0.744,0.777,0.697,0.752,0.749,0.744,(2.8079)+(-0.1188)Asn+
(0.0163)Thr+(-0.0096)Ala+(0.0100)Pro+(-0.0642)Tyr+(0.0765)Phe;0.725,0
.773,0.675,0.674,0.651,0.743,0.676,0.686,(0.0107)+(0.0354)Ser+(-0.006
8)Gly+(-0.0754)Cit+(0.0017)Pro+(-0.0719)Tyr+(0.0396)Ile;0.725,0.769,0
.759,0.782,0.755,0.807,0.670,0.754,(4.6955)+(-0.0797)Asn+(0.0163)Thr+
(0.0093)Pro+(-0.0155)Val+(-0.1840)Met+(0.0271)Orn;0.725,0.767,0.716,0
.712,0.731,0.753,0.666,0.716,(1.7604)+(0.0013)Gly+(0.0218)Thr+(-0.018
2)Arg+(0.0015)Pro+(-0.3353)Met+(0.0528)Ile;0.725,0.772,0.749,0.780,0.
711,0.825,0.695,0.753,(2.1015)+(0.0367)Ser+(-0.1310)Asn+(0.0029)Thr+(

-0.0048)Ala+(-0.0236)Tyr+(0.0041)Leu;0.725,0.767,0.757,0.761,0.752,0.778,0.746,0.759,(0.5398)+(0.0011)Gly+(0.0048)Gln+(-0.0153)Arg+(0.0019)Pro+(-0.3010)Met+(0.0509)Ile;0.725,0.766,0.761,0.763,0.757,0.783,0.750,0.763,(0.6217)+(0.0048)Gln+(-0.0159)Arg+(0.0018)Pro+(-0.2989)Met+(0.0045)Orn+(0.0487)Ile;0.725,0.773,0.721,0.757,0.729,0.685,0.636,0.702,(-0.0495)+(0.0000)Gly+(0.0259)Thr+(-0.0361)Tyr+(-0.3367)Met+(-0.0096)Leu+(0.1157)Phe;0.725,0.769,0.793,0.816,0.771,0.800,0.774,0.790,(3.7631)+(-0.0702)Asn+(-0.0065)Ala+(-0.0669)Cit+(-0.0409)Tyr+(-0.0045)Lys+(0.0871)Phe;0.725,0.765,0.765,0.773,0.743,0.789,0.772,0.769,(4.1114)+(-0.0047)Arg+(0.0110)Pro+(-0.0384)Val+(-0.2583)Met+(0.0034)Lys+(0.0581)Leu;0.725,0.776,0.705,0.677,0.754,0.828,0.588,0.712,(0.9824)+(0.0326)Ser+(-0.0003)Gln+(-0.0113)Thr+(-0.1148)Cit+(0.0546)Orn+(-0.0232)Lys;0.725,0.769,0.800,0.828,0.785,0.801,0.758,0.793,(2.1971)+(-0.1469)Asn+(0.0050)Gln+(-0.0189)Arg+(-0.0228)Val+(0.0327)Orn+(0.0697)Phe;0.725,0.768,0.688,0.693,0.701,0.779,0.580,0.688,(0.5630)+(0.0282)Ser+(-0.0146)Thr+(-0.1057)Cit+(0.0050)Pro+(-0.0566)Tyr+(0.0436)Orn;0.725,0.771,0.774,0.794,0.727,0.825,0.785,0.782,(5.7536)+(-0.1409)Asn+(0.0224)Thr+(-0.0041)Ala+(-0.0227)Tyr+(-0.0411)Val+(0.0644)Leu;0.725,0.771,0.760,0.777,0.743,0.797,0.724,0.760,(6.3240)+(-0.1402)Asn+(0.0241)Thr+(-0.0495)Cit+(-0.0301)Tyr+(-0.0377)Val+(0.0570)Leu;0.725,0.769,0.696,0.669,0.754,0.825,0.551,0.700,(1.0168)+(0.0285)Ser+(-0.1127)Cit+(-0.0050)Arg+(0.0504)Orn+(-0.0258)Lys+(0.0003)Leu;0.725,0.769,0.744,0.748,0.750,0.792,0.683,0.743,(2.2996)+(0.0450)Ser+(-0.1358)Asn+(-0.0039)Gly+(0.0001)Thr+(-0.0611)Cit+(-0.0056)Arg;0.725,0.767,0.775,0.810,0.768,0.739,0.721,0.759,(-0.9530)+(0.0007)Gly+(0.0057)Gln+(-0.0161)Arg+(-0.0256)Tyr+(-0.2880)Met+(0.0982)Phe;0.725,0.764,0.722,0.721,0.700,0.808,0.707,0.734,(2.2230)+(0.0034)Gly+(-0.0048)Thr+(-0.0701)Cit+(-0.0162)Arg+(0.1640)Ile+(-0.0913)Leu;0.725,0.771,0.785,0.816,0.772,0.816,0.70

7,0.778,(3.3988)+(-0.0930)Asn+(0.0054)Gln+(0.0190)Thr+(0.0096)Pro+(-0.0133)Val+(-0.2073)Met;0.725,0.768,0.762,0.769,0.785,0.822,0.653,0.757,(4.4685)+(-0.0931)Cit+(-0.0030)Arg+(-0.0140)Tyr+(-0.0090)Val+(-0.1455)Met+(0.0569)Orn;0.725,0.766,0.774,0.785,0.732,0.821,0.796,0.783,(3.9776)+(-0.1682)Asn+(0.0041)Gln+(0.0050)Pro+(-0.0474)Val+(0.0341)Orn+(0.0568)Leu;0.725,0.763,0.795,0.811,0.789,0.769,0.781,0.787,(1.8997)+(-0.0349)Asn+(-0.0045)Ala+(-0.0061)Arg+(-0.2097)Met+(-0.0066)Leu+(0.0958)Phe;0.725,0.764,0.791,0.793,0.744,0.832,0.852,0.805,(1.8720)+(-0.0976)Asn+(0.0044)Gln+(-0.0114)Ala+(-0.0152)Arg+(0.0057)Pro+(0.0394)Ile;0.724,0.764,0.663,0.687,0.650,0.711,0.596,0.661,(-1.5735)+(0.0334)Ser+(-0.0105)Thr+(-0.0848)Cit+(0.0055)Pro+(-0.0769)Tyr+(0.0697)Phe;0.724,0.768,0.790,0.793,0.813,0.824,0.712,0.785,(2.6677)+(-0.0766)Asn+(0.0066)Gln+(-0.0996)Cit+(-0.0031)Arg+(-0.1637)Met+(0.0421)Orn;0.724,0.767,0.781,0.796,0.779,0.776,0.751,0.775,(2.3410)+(-0.0052)Ala+(-0.0648)Cit+(-0.0181)Tyr+(-0.1916)Met+(-0.0037)Lys+(0.1026)Phe;0.724,0.767,0.774,0.776,0.751,0.797,0.799,0.781,(5.3666)+(-0.0614)Asn+(0.0107)Pro+(0.0024)Tyr+(-0.0409)Val+(-0.1939)Met+(0.0625)Leu;0.724,0.766,0.753,0.786,0.743,0.823,0.637,0.747,(3.0918)+(0.0363)Ser+(-0.1371)Asn+(0.0059)Thr+(-0.0143)Arg+(-0.0109)Val+(-0.0006)Lys;0.724,0.766,0.729,0.728,0.705,0.797,0.729,0.740,(2.5364)+(-0.0311)Arg+(-0.0060)Pro+(0.0205)Orn+(-0.0065)Lys+(0.1647)Ile+(-0.0930)Leu;0.724,0.765,0.757,0.756,0.795,0.813,0.638,0.750,(4.2751)+(-0.0614)Asn+(0.0033)Gly+(-0.1017)Cit+(-0.1381)Met+(0.0503)Orn+(-0.0036)Leu;0.724,0.765,0.781,0.776,0.746,0.824,0.835,0.795,(2.2513)+(-0.0877)Asn+(-0.0109)Ala+(-0.0141)Arg+(0.0133)Orn+(0.0351)Ile+(0.0295)Phe;0.724,0.764,0.785,0.813,0.768,0.758,0.768,0.777,(2.0966)+(-0.0446)Asn+(-0.0040)Ala+(-0.0262)Tyr+(-0.1745)Met+(-0.0074)Leu+(0.1028)Phe;0.724,0.762,0.706,0.695,0.683,0.805,0.711,0.724,(-0.4259)+(0.0307)Ser+(-0.0023)Gln+(-0.0145)Ala+(-0.0948)Cit+(0.

0114)Pro+(0.0471)Phe;0.724,0.773,0.683,0.701,0.642,0.720,0.692,0.689,(-0.9191)+(0.0472)Ser+(-0.0107)Gly+(0.0059)Pro+(-0.0789)Tyr+(-0.0222)Lys+(0.0761)Phe;0.724,0.769,0.703,0.683,0.745,0.834,0.573,0.709,(1.4712)+(0.0255)Ser+(-0.1101)Cit+(0.0027)Pro+(-0.0080)Val+(0.0532)Orn+(-0.0229)Lys;0.724,0.768,0.778,0.824,0.745,0.747,0.748,0.766,(3.1757)+(-0.1185)Asn+(0.0020)Gly+(-0.0492)Tyr+(-0.0172)Val+(0.0024)Lys+(0.1022)Phe;0.724,0.762,0.773,0.811,0.713,0.771,0.800,0.774,(1.6209)+(-0.1146)Asn+(0.0045)Gln+(-0.0090)Ala+(0.0097)Pro+(-0.0568)Tyr+(0.0710)Phe;0.724,0.769,0.790,0.806,0.724,0.838,0.851,0.805,(2.5643)+(-0.0795)Asn+(0.0049)Gln+(-0.0084)Ala+(-0.0329)Tyr+(-0.0119)Lys+(0.0551)Ile;0.724,0.769,0.675,0.708,0.670,0.728,0.561,0.667,(-1.3381)+(0.0335)Ser+(-0.0037)Thr+(-0.0724)Cit+(-0.0163)Arg+(-0.0720)Tyr+(0.0774)Phe;0.724,0.767,0.775,0.800,0.766,0.765,0.737,0.767,(0.9510)+(0.0024)Gly+(-0.0047)Ala+(-0.0091)Arg+(-0.0183)Tyr+(-0.2330)Met+(0.1002)Phe;0.724,0.765,0.765,0.769,0.743,0.791,0.780,0.771,(3.9546)+(0.0108)Pro+(0.0029)Tyr+(-0.0391)Val+(-0.2675)Met+(0.0021)Lys+(0.0600)Leu;0.724,0.768,0.751,0.768,0.713,0.799,0.754,0.758,(5.4860)+(-0.1305)Asn+(0.0073)Pro+(-0.0309)Tyr+(-0.0429)Val+(0.0409)Orn+(0.0529)Leu;0.724,0.772,0.775,0.803,0.744,0.805,0.741,0.773,(1.6637)+(0.0463)Ser+(-0.1330)Asn+(-0.0082)Gly+(0.0044)Gln+(-0.0157)Arg+(-0.0363)Tyr;0.724,0.763,0.764,0.776,0.762,0.834,0.688,0.765,(4.3662)+(-0.0075)Ala+(-0.1076)Cit+(-0.0058)Arg+(-0.0297)Tyr+(-0.0068)Val+(0.0622)Orn;0.724,0.780,0.687,0.664,0.672,0.789,0.705,0.707,(-0.2696)+(0.0467)Ser+(-0.1280)Asn+(-0.0047)Thr+(-0.0009)Pro+(-0.0176)Lys+(0.0469)Ile;0.724,0.774,0.711,0.674,0.755,0.823,0.637,0.722,(1.1910)+(0.0356)Ser+(-0.0058)Gly+(-0.1102)Cit+(0.0004)Pro+(0.0502)Orn+(-0.0275)Lys;0.724,0.772,0.637,0.640,0.605,0.730,0.627,0.650,(-1.8504)+(0.0335)Ser+(-0.0696)Tyr+(0.0085)Orn+(-0.0291)Lys+(0.0422)Ile+(0.0548)Phe;0.724,0.762,0.777,0.791,0.785,0.759,0.736,0.768,(1.817

7)+(-0.0557)Cit+(0.0016)Arg+(-0.0116)Val+(-0.2560)Met+(-0.0001)Lys+(0.1124)Phe;0.724,0.764,0.772,0.790,0.750,0.825,0.730,0.774,(3.2909)+(0.0474)Ser+(-0.1267)Asn+(-0.0069)Gly+(-0.0122)Arg+(-0.0104)Val+(-0.0011)Lys;0.724,0.772,0.712,0.699,0.701,0.744,0.744,0.722,(-1.1755)+(0.0534)Ser+(-0.1767)Asn+(-0.0047)Gly+(-0.0096)Thr+(0.0103)Orn+(0.0448)Phe;0.724,0.770,0.694,0.666,0.753,0.826,0.549,0.699,(1.2417)+(0.0292)Ser+(-0.0008)Gln+(-0.1123)Cit+(-0.0045)Arg+(0.0512)Orn+(-0.0254)Lys;0.724,0.765,0.789,0.805,0.785,0.773,0.770,0.783,(1.3973)+(-0.0046)Ala+(-0.0069)Arg+(-0.2387)Met+(-0.0029)Lys+(-0.0039)Leu+(0.0966)Phe;0.724,0.772,0.773,0.812,0.740,0.834,0.697,0.771,(2.1836)+(0.0338)Ser+(-0.1482)Asn+(0.0035)Gln+(-0.0184)Tyr+(-0.0089)Val+(-0.0016)Lys;0.724,0.768,0.793,0.789,0.741,0.856,0.863,0.812,(2.2785)+(-0.0958)Asn+(0.0041)Gln+(0.0071)Thr+(-0.0100)Ala+(-0.0156)Lys+(0.0508)Ile;0.724,0.765,0.788,0.791,0.732,0.834,0.861,0.805,(0.7985)+(-0.1249)Asn+(0.0020)Gly+(0.0034)Gln+(-0.0111)Ala+(0.0373)Ile+(0.0314)Phe;0.724,0.776,0.785,0.810,0.766,0.835,0.725,0.784,(0.8627)+(0.0436)Ser+(-0.0081)Gly+(0.0030)Gln+(-0.0148)Arg+(-0.0045)Val+(-0.2209)Met;0.724,0.774,0.746,0.774,0.731,0.715,0.723,0.736,(-0.9922)+(0.0039)Gln+(0.0076)Pro+(-0.0339)Tyr+(-0.3203)Met+(0.0066)Orn+(0.0938)Phe;0.724,0.773,0.725,0.762,0.743,0.710,0.599,0.704,(0.6544)+(0.0329)Thr+(-0.0223)Arg+(-0.0384)Tyr+(-0.3213)Met+(-0.0101)Leu+(0.1207)Phe;0.724,0.765,0.769,0.787,0.752,0.824,0.716,0.770,(3.5180)+(0.0453)Ser+(-0.1364)Asn+(-0.0070)Gly+(0.0064)Thr+(-0.0147)Arg+(-0.0117)Val;0.724,0.777,0.725,0.745,0.733,0.813,0.591,0.721,(0.3678)+(0.0334)Ser+(0.0061)Thr+(-0.0013)Tyr+(-0.2570)Met+(0.0181)Orn+(-0.0069)Lys;0.724,0.772,0.727,0.750,0.723,0.708,0.689,0.718,(0.1540)+(0.0017)Gly+(0.0078)Pro+(-0.0335)Tyr+(-0.3010)Met+(0.0107)Orn+(0.0932)Phe;0.724,0.770,0.785,0.777,0.812,0.839,0.712,0.785,(3.1345)+(-0.1122)Asn+(0.0061)Gln+(-0.1125)Cit+(-0.0001)Pro+(0.0510)Orn+(-0.0156)

Lys;0.724,0.768,0.735,0.734,0.741,0.792,0.683,0.738,(2.3018)+(0.0441)Ser+(-0.1427)Asn+(-0.0037)Gly+(-0.0652)Cit+(0.0053)Pro+(-0.0063)Leu;0.724,0.766,0.772,0.799,0.771,0.744,0.718,0.758,(-0.8733)+(0.0072)Gln+(-0.0759)Cit+(-0.0041)Arg+(-0.0274)Tyr+(-0.2808)Met+(0.1048)Phe;0.724,0.763,0.762,0.773,0.757,0.835,0.690,0.764,(4.1504)+(0.0000)Gly+(-0.0078)Ala+(-0.1127)Cit+(-0.0309)Tyr+(-0.0065)Val+(0.0617)Orn;0.724,0.769,0.791,0.799,0.786,0.816,0.762,0.791,(3.5051)+(-0.1165)Asn+(0.0160)Thr+(-0.0088)Ala+(-0.0796)Cit+(-0.0091)Leu+(0.0727)Phe;0.724,0.767,0.781,0.784,0.755,0.833,0.788,0.790,(5.9852)+(-0.1344)Asn+(0.0218)Thr+(-0.0057)Ala+(-0.0540)Cit+(-0.0367)Val+(0.0590)Leu;0.724,0.765,0.744,0.747,0.714,0.817,0.747,0.756,(1.4185)+(0.0037)Gln+(-0.0059)Thr+(-0.0680)Cit+(-0.0202)Arg+(0.1645)Ile+(-0.0936)Leu;0.724,0.773,0.769,0.774,0.789,0.821,0.679,0.766,(4.4741)+(0.0276)Thr+(-0.0062)Ala+(-0.0804)Cit+(-0.2218)Met+(-0.0079)Lys+(0.0165)Leu;0.724,0.768,0.748,0.754,0.754,0.797,0.684,0.747,(2.5226)+(0.0449)Ser+(-0.1330)Asn+(-0.0042)Gly+(-0.0594)Cit+(-0.0057)Arg+(-0.0029)Leu;0.724,0.778,0.747,0.718,0.798,0.802,0.679,0.749,(3.4237)+(-0.1067)Asn+(0.0111)Thr+(-0.1103)Cit+(0.0492)Orn+(-0.0203)Lys+(0.0450)Phe;0.724,0.774,0.734,0.739,0.727,0.753,0.721,0.735,(-1.1988)+(0.0504)Ser
+(-0.1799)Asn+(-0.0049)Gly+(0.0028)Gln+(-0.0220)Arg+(0.0502)Phe;0.724,0.771,0.779,0.787,0.799,0.838,0.672,0.774,(2.9771)+(0.0041)Gln+(-0.0916)Cit+(-0.0070)Arg+(-0.0091)Val+(-0.1879)Met+(0.0500)Orn;0.724,0.770,0.746,0.757,0.775,0.744,0.659,0.734,(1.0972)+(-0.0477)Asn+(0.0066)Gly+(-0.0809)Cit+(0.0062)Arg+(-0.2531)Met+(0.1005)Phe;0.724,0.763,0.794,0.802,0.745,0.842,0.841,0.808,(1.5918)+(-0.1003)Asn+(0.0017)Gly+(0.0045)Gln+(-0.0101)Ala+(-0.0158)Arg+(0.0452)Ile;0.724,0.771,0.776,0.802,0.737,0.851,0.737,0.782,(1.4060)+(0.0360)Ser+(-0.1368)Asn+(0.0027)Gln+(0.0012)Thr+(-0.0051)Ala+(-0.0068)Lys;0.724,0.777,0.696,0.675,0.67

8,0.792,0.717,0.716,(-0.6582)+(0.0456)Ser+(-0.1362)Asn+(0.0017)Gln+(-0.0055)Thr+(-0.0176)Lys+(0.0447)Ile;0.724,0.771,0.721,0.758,0.719,0.688,0.650,0.704,(-1.3948)+(0.0032)Gln+(0.0238)Thr+(-0.0351)Tyr+(-0.3708)Met+(0.0002)Orn+(0.1063)Phe;0.724,0.769,0.789,0.811,0.763,0.793,0.779,0.787,(3.5439)+(-0.0817)Asn+(-0.0070)Ala+(-0.0722)Cit+(0.0055)Arg+(-0.0434)Tyr+(0.0849)Phe;0.724,0.766,0.738,0.759,0.704,0.767,0.735,0.741,(1.4598)+(0.0467)Ser+(-0.1458)Asn+(-0.0081)Gly+(0.0029)Gln+(0.0066)Pro+(-0.0477)Tyr;0.724,0.776,0.772,0.793,0.757,0.824,0.708,0.771,(1.5331)+(0.0462)Ser+(-0.0074)Gly+(-0.0119)Arg+(0.0016)Tyr+(-0.0040)Val+(-0.2132)Met;0.724,0.766,0.664,0.671,0.655,0.753,0.599,0.670,(-0.3627)+(0.0324)Ser+(-0.0068)Thr+(-0.0709)Cit+(-0.0132)Arg+(-0.0563)Tyr+(0.0457)Ile;0.724,0.758,0.748,0.748,0.742,0.820,0.708,0.754,(1.2164)+(0.0022)Gly+(-0.0109)Ala+(-0.1184)Cit+(-0.0120)Val+(0.0542)Orn+(0.0570)Phe;0.724,0.768,0.727,0.760,0.700,0.793,0.644,0.724,(3.1737)+(0.0360)Ser+(-0.1449)Asn+(0.0027)Thr+(0.0108)Pro+(-0.0283)Tyr+(-0.0127)Val;0.724,0.767,0.692,0.725,0.658,0.717,0.657,0.689,(-1.0484)+(0.0453)Ser+(-0.0095)Gly+(-0.0006)Gln+(-0.0278)Arg+(-0.0818)Tyr+(0.0714)Phe;0.724,0.761,0.727,0.724,0.726,0.756,0.717,0.731,(0.2507)+(0.0000)Gly+(0.0029)Gln+(0.0152)Thr+(0.0009)Pro+(-0.3608)Met+(0.0519)Ile;0.724,0.761,0.732,0.744,0.724,0.795,0.671,0.733,(3.6614)+(-0.0016)Gly+(-0.0960)Cit+(-0.0495)Tyr+(-0.0271)Val+(0.0574)Orn+(0.0307)Leu;0.724,0.771,0.728,0.726,0.776,0.795,0.588,0.721,(3.0710)+(0.0018)Gly+(0.0154)Thr+(-0.1006)Cit+(0.0061)Pro+(-0.2787)Met+(0.0362)Orn;0.724,0.765,0.790,0.804,0.748,0.823,0.814,0.797,(4.0276)+(-0.1861)Asn+(-0.0003)Gly+(0.0051)Gln+(0.0167)Thr+(-0.0462)Val+(0.0624)Leu;0.724,0.760,0.751,0.781,0.700,0.762,0.768,0.753,(2.7713)+(-0.0970)Asn+(-0.0093)Ala+(0.0098)Pro+(-0.0569)Tyr+(0.0193)Orn+(0.0662)Phe;0.724,0.776,0.714,0.746,0.660,0.800,0.678,0.721,(-0.7164)+(0.0331)Ser+(-0.0015)Gln+(-0.0066)Ala+(-0.0521)Ty

r+(-0.0171)Lys+(0.0821)Phe;0.724,0.765,0.766,0.771,0.746,0.793,0.776,0.772,(4.1749)+(-0.0030)Arg+(0.0106)Pro+(0.0036)Tyr+(-0.0380)Val+(-0.2560)Met+(0.0592)Leu;0.724,0.763,0.801,0.842,0.755,0.792,0.796,0.796,(1.2752)+(-0.1081)Asn+(0.0064)Gln+(-0.0063)Ala+(-0.0144)Arg+(-0.0521)Tyr+(0.0777)Phe;0.724,0.776,0.693,0.735,0.657,0.755,0.609,0.689,(-0.9823)+(0.0270)Ser+(-0.0652)Tyr+(-0.0133)Val+(0.0248)Orn+(-0.0186)Lys+(0.0890)Phe;0.724,0.769,0.688,0.746,0.669,0.741,0.533,0.672,(-1.1576)+(0.0321)Ser+(-0.0009)Gln+(-0.0294)Arg+(-0.0691)Tyr+(-0.0176)Leu+(0.0910)Phe;0.724,0.764,0.668,0.707,0.659,0.707,0.558,0.658,(-1.1579)+(0.0280)Ser+(-0.0849)Cit+(0.0068)Pro+(-0.0817)Tyr+(-0.0175)Leu+(0.0883)Phe;0.724,0.773,0.682,0.672,0.643,0.760,0.734,0.702,(-0.0837)+(0.0460)Ser+(-0.0091)Gly+(-0.0041)Thr+(-0.0525)Tyr+(-0.0227)Lys+(0.0525)Ile;0.724,0.767,0.792,0.812,0.750,0.791,0.830,0.796,(2.1685)+(-0.1794)Asn+(0.0021)Gly+(0.0051)Gln+(-0.0426)Val+(0.0481)Leu+(0.0647)Phe;0.724,0.766,0.782,0.804,0.756,0.818,0.752,0.782,(2.6263)+(-0.0681)Asn+(0.0045)Gln+(0.0163)Thr+(-0.0072)Ala+(0.0112)Pro+(-0.2124)Met;0.724,0.764,0.757,0.760,0.752,0.782,0.742,0.759,(0.5221)+(0.0009)Gly+(0.0047)Gln+(-0.0159)Arg+(-0.2960)Met+(0.0044)Orn+(0.0515)Ile;0.724,0.763,0.765,0.764,0.717,0.827,0.822,0.783,(2.6813)+(-0.0832)Asn+(0.0029)Gly+(-0.0117)Ala+(-0.0124)Arg+(0.0069)Pro+(0.0426)Ile;0.724,0.760,0.809,0.819,0.786,0.843,0.805,0.813,(3.6012)+(-0.0950)Asn+(0.0069)Gln+(-0.0097)Ala+(-0.0838)Cit+(0.0112)Pro+(-0.0053)Lys;0.724,0.767,0.715,0.718,0.688,0.779,0.715,0.725,(0.5853)+(0.0010)Gly+(-0.0385)Arg+(0.0092)Orn+(0.1600)Ile+(-0.1039)Leu+(0.0432)Phe;0.724,0.760,0.755,0.763,0.756,0.829,0.682,0.757,(3.8408)+(0.0008)Gly+(-0.0091)Ala+(-0.1148)Cit+(-0.0046)Arg+(-0.0326)Tyr+(0.0580)Orn;0.724,0.759,0.759,0.766,0.760,0.829,0.687,0.760,(4.0199)+(-0.0088)Ala+(-0.1133)Cit+(-0.0046)Arg+(-0.0330)Tyr+(0.0586)Orn+(-0.0014)Leu;0.724,0.769,0.726,0.710,0.718,0.815,0.719,0.741,(

2.4988)+(-0.0082)Thr+(-0.0907)Cit+(-0.0154)Arg+(0.0381)Orn+(0.1552)Ile+(-0.0931)Leu;0.724,0.766,0.736,0.758,0.684,0.812,0.734,0.747,(1.5550)+(0.0392)Ser+(-0.0084)Gly+(-0.0088)Ala+(-0.0223)Arg+(0.0136)Pro+(-0.0455)Tyr;0.724,0.765,0.785,0.808,0.769,0.764,0.771,0.778,(2.0678)+(-0.0371)Asn+(-0.0045)Ala+(-0.0055)Arg+(-0.0246)Tyr+(-0.1821)Met+(0.0964)Phe;0.724,0.770,0.687,0.654,0.747,0.822,0.549,0.693,(1.2063)+(0.0293)Ser+(-0.0011)Gln+(-0.1157)Cit+(0.0010)Pro+(0.0512)Orn+(-0.0267)Lys;0.724,0.765,0.770,0.763,0.722,0.819,0.854,0.790,(2.0719)+(-0.1035)Asn+(-0.0125)Ala+(0.0061)Pro+(0.0074)Orn+(0.0314)Ile+(0.0272)Phe;0.724,0.776,0.700,0.670,0.750,0.823,0.589,0.708,(0.7516)+(0.0330)Ser+(-0.0122)Thr+(-0.1142)Cit+(0.0019)Pro+(0.0530)Orn+(-0.0236)Lys;0.724,0.764,0.773,0.801,0.758,0.756,0.743,0.764,(0.7423)+(0.0020)Gly+(-0.0043)Ala+(-0.0198)Tyr+(-0.2392)Met+(-0.0052)Leu+(0.1039)Phe;0.724,0.770,0.797,0.817,0.792,0.790,0.759,0.789,(2.0567)+(-0.1812)Asn+(0.0065)Gln+(0.0147)Thr+(-0.0714)Cit+(-0.0191)Val+(0.0815)Phe;0.724,0.766,0.759,0.770,0.749,0.781,0.738,0.759,(3.3957)+(-0.1479)Asn+(0.0060)Gly+(-0.0587)Cit+(-0.0364)Val+(0.0418)Leu+(0.0793)Phe;0.724,0.762,0.721,0.711,0.683,0.776,0.789,0.740,(1.7952)+(-0.0004)Gly+(-0.0117)Thr+(0.0141)Orn+(-0.0115)Lys+(0.1470)Ile+(-0.0843)Leu;0.724,0.766,0.750,0.726,0.714,0.821,0.834,0.774,(1.4833)+(0.0000)Thr+(-0.0162)Ala+(-0.0980)Cit+(0.0072)Pro+(0.0504)Ile+(0.0192)Phe;0.724,0.765,0.773,0.813,0.737,0.768,0.746,0.766,(2.8724)+(-0.0997)Asn+(-0.0054)Ala+(-0.0544)Tyr+(0.0293)Orn+(-0.0169)Leu+(0.0876)Phe;0.723,0.768,0.698,0.673,0.681,0.760,0.754,0.717,(-0.6968)+(0.0523)Ser+(-0.1570)Asn+(-0.0047)Gly+(-0.0110)Thr+(0.0089)Orn+(0.0279)Ile;0.723,0.761,0.765,0.778,0.756,0.836,0.695,0.766,(3.5380)+(0.0016)Gln+(-0.0081)Ala+(-0.1142)Cit+(-0.0327)Tyr+(-0.0064)Val+(0.0596)Orn;0.723,0.760,0.756,0.754,0.750,0.817,0.733,0.763,(1.6815)+(-0.0019)Thr+(-0.0105)Ala+(-0.1142)Cit+(-0.0122)Val+(0.0553)Orn+(0.05

52)Phe;0.723,0.770,0.739,0.752,0.669,0.789,0.814,0.756,(1.8634)+(-0.0113)Ala+(0.0075)Pro+(-0.0519)Tyr+(-0.0179)Lys+(0.0469)Ile+(0.0486)Phe;0.723,0.769,0.667,0.699,0.667,0.722,0.542,0.658,(-1.1877)+(0.0326)Ser+(-0.0004)Gln+(-0.0718)Cit+(-0.0176)Arg+(-0.0743)Tyr+(0.0776)Phe;0.723,0.763,0.745,0.739,0.776,0.805,0.654,0.743,(4.3298)+(-0.0974)Cit+(0.0065)Pro+(-0.0228)Tyr+(-0.1564)Met+(0.0522)Orn+(-0.0090)Lys;0.723,0.762,0.773,0.786,0.731,0.809,0.802,0.782,(4.0705)+(-0.1875)Asn+(0.0047)Gln+(0.0155)Thr+(0.0056)Pro+(-0.0470)Val+(0.0600)Leu;0.723,0.768,0.796,0.837,0.759,0.780,0.778,0.789,(3.6443)+(-0.0945)Asn+(-0.0036)Ala+(-0.0057)Arg+(-0.0428)Tyr+(-0.0139)Val+(0.1010)Phe;0.723,0.767,0.755,0.788,0.731,0.816,0.670,0.751,(2.2193)+(0.0368)Ser+(-0.1529)Asn+(0.0034)Gln+(-0.0179)Arg+(0.0094)Pro+(-0.0149)Val;0.723,0.765,0.787,0.786,0.782,0.819,0.774,0.790,(5.1322)+(-0.0251)Asn+(-0.0089)Ala+(-0.0688)Cit+(0.0144)Pro+(-0.1386)Met+(0.0052)Leu;0.723,0.771,0.749,0.783,0.751,0.754,0.653,0.735,(2.9372)+(-0.0906)Asn+(0.0050)Gly+(-0.0743)Cit+(-0.0507)Tyr+(-0.0075)Lys+(0.0865)Phe;0.723,0.768,0.736,0.727,0.714,0.816,0.744,0.750,(3.0882)+(-0.0003)Thr+(-0.0697)Cit+(-0.0115)Arg+(-0.0078)Lys+(0.1573)Ile+(-0.0848)Leu;0.723,0.764,0.760,0.781,0.729,0.816,0.729,0.764,(3.8444)+(-0.0067)Ala+(0.0146)Pro+(-0.0118)Tyr+(-0.0102)Val+(-0.1741)Met+(0.0299)Orn;0.723,0.764,0.737,0.743,0.716,0.811,0.711,0.745,(-1.0912)+(0.0330)Ser+(-0.0078)Thr+(-0.0104)Ala+(-0.0807)Cit+(-0.0116)Arg+(0.0598)Phe;0.723,0.771,0.692,0.723,0.660,0.725,0.651,0.690,(-1.1436)+(0.0436)Ser+(-0.0100)Gly+(-0.0304)Arg+(-0.0850)Tyr+(0.0147)Orn+(0.0661)Phe;0.723,0.769,0.712,0.746,0.733,0.698,0.588,0.691,(0.3633)+(0.0006)Gly+(0.0325)Thr+(-0.0221)Arg+(-0.0373)Tyr+(-0.3404)Met+(0.1111)Phe;0.723,0.760,0.737,0.749,0.720,0.810,0.685,0.741,(-0.8994)+(0.0298)Ser+(-0.0103)Ala+(-0.0794)Cit+(-0.0152)Arg+(-0.0063)Leu+(0.0640)Phe;0.723,0.771,0.688,0.664,0.677,0.735,0.740,0.704,(-1.3425)+(0.05

06)Ser+(-0.1912)Asn+(-0.0044)Gly+(0.0018)Orn+(0.0176)Ile+(0.0339)Phe;0.723,0.770,0.785,0.776,0.811,0.840,0.712,0.785,(3.1372)+(-0.1128)Asn+(0.0061)Gln+(-0.1134)Cit+(0.0014)Arg+(0.0511)Orn+(-0.0159)Lys;0.723,0.765,0.770,0.761,0.722,0.837,0.848,0.792,(3.4236)+(-0.0786)Asn+(0.0080)Thr+(-0.0114)Ala+(0.0059)Pro+(-0.0140)Lys+(0.0473)Ile;0.723,0.767,0.773,0.762,0.731,0.842,0.842,0.794,(3.3053)+(-0.0777)Asn+(0.0068)Thr+(-0.0100)Ala+(0.0155)Orn+(-0.0160)Lys+(0.0485)Ile;0.723,0.766,0.748,0.763,0.758,0.718,0.710,0.737,(2.2561)+(-0.0329)Asn+(-0.0601)Cit+(0.0079)Pro+(-0.0337)Tyr+(-0.2206)Met+(0.0960)Phe;0.723,0.762,0.764,0.779,0.736,0.819,0.743,0.769,(3.7486)+(-0.0004)Gly+(-0.0068)Ala+(0.0142)Pro+(-0.0106)Val+(-0.1890)Met+(0.0292)Orn;0.723,0.774,0.733,0.755,0.738,0.797,0.618,0.727,(-0.2650)+(0.0382)Ser+(0.0017)Gln+(-0.0111)Arg+(-0.2556)Met+(-0.0048)Lys+(0.0116)Leu;0.723,0.773,0.789,0.785,0.813,0.841,0.709,0.787,(3.3868)+(-0.1133)Asn+(0.0060)Gln+(-0.1117)Cit+(0.0527)Orn+(-0.0131)Lys+(-0.0067)Leu;0.723,0.763,0.739,0.746,0.707,0.806,0.741,0.750,(1.5568)+(-0.0004)Gly+(0.0030)Gln+(-0.0331)Arg+(-0.0060)Lys+(0.1582)Ile+(-0.0917)Leu;0.723,0.774,0.776,0.787,0.748,0.834,0.765,0.784,(2.2597)+(0.0468)Ser+(-0.1218)Asn+(-0.0061)Gly+(-0.0053)Ala+(-0.0117)Arg+(0.0004)Leu;0.723,0.765,0.776,0.769,0.730,0.833,0.851,0.796,(3.4737)+(-0.0621)Asn+(-0.0113)Ala+(-0.0062)Arg+(0.0066)Pro+(-0.0112)Lys+(0.0478)Ile;0.723,0.777,0.743,0.732,0.794,0.820,0.613,0.740,(3.9570)+(0.0190)Thr+(-0.1042)Cit+(-0.2294)Met+(0.0452)Orn+(-0.0127)Lys+(0.0059)Leu;0.723,0.765,0.715,0.693,0.755,0.785,0.639,0.718,(2.5889)+(-0.1240)Asn+(0.0054)Gly+(-0.1113)Cit+(-0.0029)Pro+(0.0386)Orn+(0.0265)Ile;0.723,0.759,0.804,0.814,0.778,0.834,0.809,0.809,(3.3791)+(-0.1039)Asn+(0.0065)Gln+(-0.0102)Ala+(-0.0855)Cit+(0.0009)Arg+(0.0112)Pro;0.723,0.776,0.683,0.659,0.673,0.791,0.689,0.703,(-0.1973)+(0.0446)Ser+(-0.1363)Asn+(-0.0017)Pro+(0.0

121)Orn+(-0.0198)Lys+(0.0438)Ile;0.723,0.765,0.782,0.800,0.796,0.819,0.675,0.773,(5.5415)+(-0.0566)Asn+(0.0261)Thr+(-0.0045)Ala+(-0.0704)Cit+(-0.0074)Tyr+(-0.1577)Met;0.723,0.764,0.788,0.812,0.725,0.824,0.826,0.797,(2.2598)+(-0.0865)Asn+(0.0053)Gln+(-0.0084)Ala+(-0.0140)Arg+(-0.0364)Tyr+(0.0490)Ile;0.723,0.767,0.740,0.733,0.737,0.773,0.740,0.746,(2.8608)+(-0.0066)Arg+(-0.0163)Tyr+(-0.2177)Met+(0.0177)Orn+(-0.0108)Lys+(0.0540)Ile;0.723,0.771,0.651,0.614,0.613,0.746,0.760,0.683,(-1.5788)+(0.0331)Ser+(-0.0073)Gly+(-0.0042)Gln+(0.1459)Ile+(-0.0950)Leu+(0.0371)Phe;0.723,0.771,0.742,0.780,0.707,0.804,0.673,0.741,(2.4813)+(0.0347)Ser+(-0.1548)Asn+(0.0028)Gln+(0.0106)Pro+(-0.0282)Tyr+(-0.0129)Val;0.723,0.760,0.747,0.759,0.686,0.800,0.804,0.762,(3.4783)+(-0.0802)Asn+(-0.0104)Ala+(0.0079)Pro+(-0.0423)Tyr+(0.0146)Orn+(0.0402)Ile;0.723,0.770,0.688,0.656,0.748,0.824,0.550,0.694,(1.2002)+(0.0292)Ser+(-0.0010)Gln+(-0.1163)Cit+(0.0517)Orn+(-0.0268)Lys+(0.0011)Leu;0.723,0.766,0.746,0.771,0.752,0.731,0.680,0.733,(0.6934)+(0.0016)Gly+(-0.0134)Arg+(-0.0285)Tyr+(-0.2574)Met+(0.0188)Orn+(0.0914)Phe;0.723,0.763,0.766,0.752,0.728,0.829,0.834,0.786,(0.5673)+(0.0027)Gln+(-0.0148)Ala+(-0.0957)Cit+(-0.0066)Arg+(0.0540)Ile+(0.0223)Phe;0.723,0.762,0.773,0.782,0.754,0.829,0.748,0.778,(4.7174)+(-0.0840)Asn+(0.0047)Gly+(-0.0105)Ala+(-0.0862)Cit+(0.0054)Arg+(0.0133)Pro;0.723,0.762,0.777,0.797,0.742,0.782,0.792,0.778,(3.4588)+(-0.1470)Asn+(0.0147)Thr+(-0.0080)Ala+(0.0105)Pro+(-0.0197)Val+(0.0803)Phe;0.723,0.769,0.700,0.683,0.724,0.795,0.630,0.708,(3.3539)+(0.0016)Gly+(-0.1128)Cit+(-0.0493)Tyr+(0.0503)Orn+(-0.0231)Lys+(0.0444)Ile;0.723,0.767,0.749,0.750,0.728,0.748,0.789,0.754,(3.8058)+(-0.1912)Asn+(0.0199)Thr+(0.0043)Pro+(-0.0483)Val+(0.0530)Leu+(0.0657)Phe;0.723,0.763,0.748,0.757,0.722,0.810,0.737,0.756,(3.0363)+(0.0475)Ser+(-0.1447)Asn+(-0.0069)Gly+(0.0092)Pro+(-0.0141)Val+(-0.0037)Lys;0.723,0.759,0.755,0.762,0.754,0.826,0.687,0.75

7,(3.7413)+(0.0006)Gly+(-0.0092)Ala+(-0.1183)Cit+(-0.0335)Tyr+(0.0580)Orn+(-0.0007)Leu;0.723,0.768,0.742,0.732,0.744,0.777,0.741,0.748,(2.3703)+(0.0025)Gly+(-0.0058)Arg+(0.0021)Pro+(-0.2580)Met+(-0.0089)Lys+(0.0571)Ile;0.723,0.766,0.736,0.737,0.783,0.798,0.590,0.727,(3.1811)+(0.0013)Gly+(0.0160)Thr+(-0.1012)Cit+(-0.2606)Met+(0.0390)Orn+(0.0014)Leu;0.723,0.763,0.760,0.772,0.755,0.834,0.683,0.761,(4.0897)+(0.0025)Thr+(-0.0080)Ala+(-0.1133)Cit+(-0.0325)Tyr+(-0.0065)Val+(0.0607)Orn;0.723,0.775,0.729,0.748,0.734,0.812,0.612,0.726,(0.1437)+(0.0346)Ser+(0.0004)Gln+(-0.0002)Tyr+(-0.2445)Met+(0.0200)Orn+(-0.0065)Lys;0.723,0.764,0.742,0.772,0.704,0.823,0.684,0.746,(-1.0487)+(0.0264)Ser+(-0.0082)Ala+(-0.0316)Arg+(-0.0161)Val+(0.0240)Orn+(0.0659)Phe;0.723,0.773,0.721,0.756,0.727,0.695,0.635,0.703,(-0.1086)+(0.0238)Thr+(-0.0372)Tyr+(-0.3300)Met+(0.0087)Orn+(-0.0110)Leu+(0.1140)Phe;0.723,0.770,0.806,0.840,0.796,0.839,0.714,0.797,(3.2419)+(-0.0979)Asn+(0.0058)Gln+(0.0204)Thr+(-0.0104)Val+(-0.1870)Met+(0.0010)Lys;0.723,0.769,0.693,0.665,0.752,0.823,0.550,0.697,(0.9670)+(0.0287)Ser+(-0.1120)Cit+(-0.0053)Arg+(0.0010)Pro+(0.0496)Orn+(-0.0259)Lys;0.723,0.760,0.769,0.795,0.792,0.809,0.623,0.755,(5.4408)+(-0.0672)Asn+(0.0017)Gly+(0.0250)Thr+(-0.0639)Cit+(-0.0062)Val+(-0.1780)Met;0.723,0.776,0.728,0.744,0.740,0.796,0.611,0.723,(0.0339)+(0.0406)Ser+(-0.0097)Arg+(0.0040)Tyr+(-0.2579)Met+(-0.0046)Lys+(0.0120)Leu;0.723,0.760,0.733,0.724,0.737,0.756,0.734,0.738,(1.9084)+(-0.0279)Asn+(0.0024)Gly+(0.0020)Pro+(-0.2680)Met+(0.0067)Orn+(0.0473)Ile;0.723,0.768,0.762,0.796,0.751,0.732,0.718,0.749,(-0.7899)+(0.0038)Gln+(-0.0307)Tyr+(-0.2788)Met+(0.0150)Orn+(-0.0120)Leu+(0.1029)Phe;0.723,0.768,0.812,0.842,0.800,0.839,0.737,0.804,(3.3817)+(-0.0954)Asn+(-0.0016)Gly+(0.0060)Gln+(0.0214)Thr+(-0.0103)Val+(-0.1872)Met;0.723,0.766,0.754,0.795,0.737,0.730,0.698,0.740,(2.9290)+(-0.0979)Asn+(-0.0619)Tyr+(0.0312)Orn+(-0.0066)Lys+(-0.0188)Leu+(0.0

865)Phe;0.723,0.762,0.749,0.778,0.745,0.728,0.696,0.737,(0.4735)+(0.0008)Gly+(-0.0310)Tyr+(-0.2541)Met+(0.0198)Orn+(-0.0123)Leu+(0.1020)Phe;0.723,0.768,0.781,0.786,0.775,0.818,0.752,0.783,(5.4774)+(-0.0629)Asn+(0.0039)Gly+(-0.0486)Cit+(-0.0348)Val+(-0.1474)Met+(0.0612)Leu;0.723,0.766,0.756,0.777,0.769,0.762,0.667,0.744,(3.1234)+(-0.1614)Asn+(0.0049)Gly+(0.0160)Thr+(-0.0693)Cit+(-0.0190)Val+(0.0911)Phe;0.723,0.765,0.763,0.809,0.729,0.728,0.741,0.752,(3.7914)+(-0.1048)Asn+(-0.0073)Arg+(0.0090)Pro+(-0.0547)Tyr+(-0.0181)Val+(0.0962)Phe;0.723,0.771,0.693,0.680,0.693,0.778,0.667,0.704,(-0.5525)+(0.0462)Ser+(-0.1462)Asn+(-0.0076)Thr+(-0.0180)Arg+(0.0103)Orn+(0.0316)Ile;0.723,0.761,0.730,0.728,0.727,0.755,0.722,0.733,(0.2500)+(0.0033)Gln+(0.0167)Thr+(0.0009)Pro+(-0.3653)Met+(-0.0073)Orn+(0.0544)Ile;0.723,0.772,0.758,0.774,0.724,0.844,0.723,0.766,(1.7863)+(0.0389)Ser+(-0.1247)Asn+(0.0019)Thr+(-0.0056)Ala+(-0.0081)Lys+(0.0058)Leu;0.723,0.769,0.788,0.807,0.750,0.838,0.784,0.795,(2.1929)+(0.0447)Ser+(-0.1529)Asn+(-0.0076)Gly+(0.0040)Gln+(-0.0106)Val+(-0.0044)Lys;0.723,0.771,0.796,0.808,0.785,0.824,0.769,0.797,(2.5956)+(0.0011)Gly+(0.0057)Gln+(-0.0593)Cit+(-0.0319)Val+(-0.2449)Met+(0.0568)Leu;0.723,0.764,0.761,0.755,0.793,0.810,0.674,0.758,(4.5147)+(-0.0513)Asn+(-0.0946)Cit+(0.0057)Pro+(-0.1587)Met+(0.0480)Orn+(-0.0068)Leu;0.723,0.777,0.713,0.747,0.660,0.796,0.677,0.720,(-1.0186)+(0.0293)Ser+(-0.0072)Ala+(-0.0550)Tyr+(0.0210)Orn+(-0.0206)Lys+(0.0770)Phe;0.723,0.768,0.783,0.809,0.772,0.833,0.699,0.778,(4.7833)+(-0.0797)Asn+(0.0171)Thr+(-0.0029)Ala+(-0.0114)Val+(-0.1435)Met+(0.0307)Orn;0.723,0.764,0.778,0.788,0.735,0.834,0.804,0.790,(5.3419)+(-0.1480)Asn+(0.0007)Gly+(0.0196)Thr+(-0.0049)Ala+(-0.0432)Val+(0.0657)Leu;0.723,0.760,0.766,0.793,0.725,0.813,0.744,0.769,(5.4033)+(-0.0954)Asn+(-0.0063)Ala+(0.0129)Pro+(-0.0301)Tyr+(-0.0137)Val+(0.0368)Orn;0.723,0.767,0.787,0.806,0.750,0.835,0.782,0.793,(2.2542)+(0.0433)Ser+

(-0.1643)Asn+(-0.0074)Gly+(0.0037)Gln+(0.0017)Thr+(-0.0122)Val;0.723,0.766,0.764,0.777,0.729,0.813,0.765,0.771,(2.2863)+(0.0450)Ser+(-0.1686)Asn+(-0.0073)Gly+(0.0032)Gln+(0.0087)Pro+(-0.0158)Val;0.723,0.777,0.694,0.710,0.657,0.737,0.696,0.700,(-0.8156)+(0.0454)Ser+(-0.0110)Gly+(-0.0763)Tyr+(0.0219)Orn+(-0.0241)Lys+(0.0751)Phe;0.723,0.772,0.700,0.704,0.614,0.805,0.794,0.729,(-1.4612)+(0.0325)Ser+(-0.0152)Thr+(-0.0106)Ala+(-0.0389)Tyr+(0.0071)Orn+(0.0571)Ile;0.723,0.760,0.724,0.722,0.703,0.788,0.730,0.736,(2.4331)+(-0.0049)Thr+(-0.0295)Arg+(0.0190)Orn+(-0.0052)Lys+(0.1561)Ile+(-0.0922)Leu;0.723,0.758,0.714,0.708,0.718,0.742,0.703,0.718,(1.2164)+(0.0010)Gly+(0.0175)Thr+(0.0012)Pro+(-0.3501)Met+(-0.0036)Orn+(0.0539)Ile;0.723,0.760,0.763,0.746,0.723,0.829,0.840,0.785,(0.5894)+(0.0023)Gln+(-0.0011)Thr+(-0.0151)Ala+(-0.1004)Cit+(0.0548)Ile+(0.0207)Phe;0.723,0.763,0.745,0.757,0.758,0.726,0.702,0.736,(1.9536)+(-0.0600)Cit+(0.0083)Pro+(-0.0300)Tyr+(-0.2452)Met+(-0.0057)Lys+(0.1000)Phe;0.723,0.770,0.760,0.767,0.702,0.809,0.830,0.777,(3.9451)+(-0.0588)Asn+(-0.0102)Ala+(0.0080)Pro+(-0.0346)Tyr+(-0.0095)Lys+(0.0504)Ile;0.723,0.761,0.795,0.798,0.752,0.843,0.841,0.809,(1.7674)+(-0.0996)Asn+(0.0045)Gln+(-0.0102)Ala+(-0.0170)Arg+(0.0116)Orn+(0.0401)Ile;0.722,0.768,0.711,0.743,0.732,0.701,0.593,0.692,(0.4176)+(0.0311)Thr+(-0.0230)Arg+(-0.0390)Tyr+(-0.3337)Met+(0.0084)Orn+(0.1076)Phe;0.722,0.768,0.674,0.712,0.656,0.748,0.560,0.669,(-1.0903)+(0.0364)Ser+(-0.0009)Gln+(-0.0207)Arg+(-0.0633)Tyr+(-0.0162)Lys+(0.0801)Phe;0.722,0.763,0.736,0.763,0.722,0.811,0.642,0.734,(3.0455)+(0.0383)Ser+(-0.1426)Asn+(0.0031)Thr+(-0.0168)Arg+(0.0097)Pro+(-0.0148)Val;0.722,0.768,0.687,0.669,0.671,0.764,0.708,0.703,(-0.9694)+(0.0465)Ser+(-0.1598)Asn+(-0.0111)Thr+(-0.0012)Pro+(0.0086)Orn+(0.0323)Ile;0.722,0.767,0.644,0.674,0.610,0.717,0.581,0.646,(-2.4781)+(0.0351)Ser+(-0.0063)Thr+(-0.0296)Arg+(-0.0745)Tyr+(0.0325)Ile+(0.0506)Phe;0.722,0.761,0

.721,0.729,0.710,0.742,0.706,0.722,(0.5905)+(0.0030)Gln+(0.0181)Thr+(-0.0195)Tyr+(-0.3350)Met+(-0.0052)Orn+(0.0564)Ile;0.722,0.775,0.675,0.662,0.639,0.758,0.724,0.696,(0.2565)+(0.0456)Ser+(-0.0091)Gly+(-0.0010)Gln+(-0.0546)Tyr+(-0.0232)Lys+(0.0527)Ile;0.722,0.771,0.677,0.653,0.595,0.802,0.824,0.718,(-1.5026)+(0.0399)Ser+(-0.0033)Gln+(-0.0207)Thr+(-0.0140)Ala+(0.0081)Pro+(0.0519)Ile;0.722,0.767,0.727,0.740,0.724,0.757,0.675,0.724,(0.9355)+(0.0041)Gln+(0.0225)Thr+(-0.0223)Arg+(-0.0201)Tyr+(-0.3197)Met+(0.0548)Ile;0.722,0.763,0.741,0.753,0.760,0.814,0.616,0.736,(4.4346)+(-0.1037)Cit+(-0.0021)Arg+(-0.0385)Tyr+(-0.0082)Val+(0.0635)Orn+(-0.0118)Lys;0.722,0.769,0.766,0.762,0.800,0.790,0.686,0.760,(3.1938)+(-0.1151)Asn+(-0.0984)Cit+(-0.0048)Arg+(0.0494)Orn+(-0.0234)Leu+(0.0583)Phe;0.722,0.767,0.768,0.763,0.764,0.798,0.766,0.773,(4.7194)+(-0.0449)Cit+(0.0105)Pro+(0.0030)Tyr+(-0.0343)Val+(-0.2417)Met+(0.0549)Leu;0.722,0.759,0.730,0.735,0.714,0.810,0.691,0.738,(-0.8478)+(0.0306)Ser+(-0.0006)Gln+(-0.0110)Ala+(-0.0815)Cit+(-0.0141)Arg+(0.0584)Phe;0.722,0.768,0.735,0.728,0.728,0.769,0.745,0.742,(2.4810)+(0.0019)Gly+(0.0026)Pro+(-0.0128)Tyr+(-0.2436)Met+(-0.0096)Lys+(0.0576)Ile;0.722,0.767,0.794,0.834,0.753,0.773,0.787,0.787,(3.4650)+(-0.1052)Asn+(-0.0037)Ala+(-0.0448)Tyr+(-0.0149)Val+(0.0025)Lys+(0.1014)Phe;0.722,0.774,0.763,0.798,0.759,0.840,0.623,0.755,(0.6377)+(0.0334)Ser+(0.0022)Gln+(-0.0146)Arg+(-0.0042)Val+(-0.2249)Met+(0.0010)Lys;0.722,0.774,0.678,0.669,0.639,0.757,0.726,0.698,(0.0639)+(0.0446)Ser+(-0.0094)Gly+(0.0008)Pro+(-0.0562)Tyr+(-0.0237)Lys+(0.0510)Ile;0.722,0.773,0.727,0.741,0.730,0.794,0.633,0.725,(-0.5380)+(0.0389)Ser+(0.0011)Gln+(0.0035)Tyr+(-0.2722)Met+(-0.0071)Lys+(0.0132)Leu;0.722,0.770,0.749,0.786,0.728,0.818,0.648,0.745,(3.1287)+(0.0347)Ser+(-0.1389)Asn+(0.0057)Thr+(-0.0195)Tyr+(-0.0088)Val+(-0.0017)Lys;0.722,0.769,0.696,0.691,0.689,0.739,0.690,0.702,(-1.5227)+(0.0478)Ser+(-0.1807)Asn+(-0.0

102)Thr+(0.0011)Pro+(0.0093)Orn+(0.0474)Phe;0.722,0.767,0.770,0.794,0.770,0.740,0.727,0.758,(-1.1873)+(0.0008)Gly+(0.0038)Gln+(-0.3255)Met+(0.0111)Orn+(-0.0110)Leu+(0.0947)Phe;0.722,0.766,0.754,0.773,0.679,0.804,0.822,0.769,(1.0921)+(0.0022)Gln+(-0.0098)Ala+(-0.0503)Tyr+(-0.0195)Lys+(0.0524)Ile+(0.0473)Phe;0.722,0.766,0.782,0.804,0.771,0.768,0.761,0.776,(1.5693)+(-0.0044)Ala+(-0.0061)Arg+(-0.0205)Tyr+(-0.2152)Met+(-0.0037)Lys+(0.0989)Phe;0.722,0.764,0.784,0.780,0.763,0.815,0.815,0.793,(3.4272)+(-0.0912)Asn+(-0.0117)Ala+(-0.0810)Cit+(0.0045)Arg+(0.0105)Pro+(0.0558)Phe;0.722,0

.764,0.784,0.809,0.764,0.815,0.734,0.780,(3.3339)+(-0.0869)Asn+(0.0050)Gln+(0.0092)Pro+(-0.0150)Val+(-0.1619)Met+(0.0287)Orn;0.722,0.770,0.736,0.731,0.779,0.798,0.613,0.730,(3.3123)+(0.0159)Thr+(-0.0983)Cit+(0.0060)Pro+(-0.2732)Met+(0.0370)Orn+(-0.0015)Leu;0.722,0.769,0.790,0.803,0.751,0.832,0.810,0.799,(4.1244)+(-0.1773)Asn+(0.0052)Gln+(0.0189)Thr+(-0.0453)Val+(-0.0067)Lys+(0.0640)Leu;0.722,0.768,0.721,0.732,0.679,0.816,0.709,0.734,(-1.2157)+(0.0348)Ser+(-0.0113)Ala+(-0.0221)Arg+(0.0102)Pro+(-0.0175)Lys+(0.0540)Phe;0.722,0.763,0.765,0.773,0.747,0.819,0.744,0.771,(3.6138)+(-0.0079)Ala+(-0.0107)Arg+(0.0125)Pro+(-0.1811)Met+(0.0266)Orn+(-0.0034)Lys;0.722,0.775,0.742,0.759,0.727,0.730,0.737,0.738,(2.9227)+(-0.0886)Asn+(-0.0719)Cit+(0.0020)Arg+(-0.0636)Tyr+(0.0296)Ile+(0.0587)Phe;0.722,0.770,0.770,0.791,0.739,0.818,0.745,0.773,(3.3751)+(0.0469)Ser+(-0.1253)Asn+(-0.0076)Gly+(-0.0218)Tyr+(-0.0081)Val+(-0.0017)Lys;0.722,0.768,0.722,0.713,0.680,0.786,0.786,0.741,(1.5145)+(0.0004)Gln+(-0.0068)Pro+(0.0109)Orn+(-0.0164)Lys+(0.1517)Ile+(-0.0815)Leu;0.722,0.776,0.754,0.782,0.758,0.835,0.614,0.747,(1.0203)+(0.0364)Ser+(-0.0128)Arg+(0.0082)Tyr+(-0.0043)Val+(-0.2316)Met+(0.0013)Lys;0.722,0.764,0.758,0.736,0.795,0.821,0.693,0.761,(4.6199)+(-0.0864)Asn+(-0.1107)Cit+(0.0056)Arg+(0.0005)Pro+(0.0560)Orn+(-0.015

5)Lys;0.722,0.762,0.758,0.740,0.727,0.826,0.824,0.779,(1.4146)+(0.002
6)Thr+(-0.0147)Ala+(-0.0932)Cit+(-0.0045)Arg+(0.0538)Ile+(0.0236)Phe;
0.722,0.760,0.722,0.729,0.711,0.745,0.708,0.723,(0.6768)+(-0.0008)Gly
+(0.0030)Gln+(0.0175)Thr+(-0.0212)Tyr+(-0.3290)Met+(0.0542)Ile;0.722,
0.765,0.773,0.784,0.759,0.782,0.769,0.773,(1.2286)+(-0.0416)Asn+(0.00
62)Gln+(-0.0131)Arg+(-0.0169)Tyr+(-0.2301)Met+(0.0498)Ile;0.722,0.774
,0.779,0.800,0.753,0.789,0.771,0.778,(2.3425)+(-0.1121)Asn+(0.0075)Gl
n+(-0.0799)Cit+(-0.0037)Arg+(-0.0489)Tyr+(0.0386)Ile;0.722,0.773,0.70
8,0.692,0.700,0.768,0.724,0.721,(-0.1742)+(0.0517)Ser+(-0.1423)Asn+(-
0.0045)Gly+(-0.0058)Thr+(-0.0168)Arg+(0.0319)Ile;0.722,0.770,0.646,0.
665,0.653,0.713,0.532,0.641,(-1.3850)+(0.0254)Ser+(-0.1113)Cit+(0.002
3)Pro+(-0.0874)Tyr+(0.0329)Orn+(0.0624)Phe;0.722,0.764,0.747,0.738,0.
753,0.765,0.746,0.750,(2.4471)+(-0.0182)Asn+(-0.0098)Arg+(0.0022)Pro+
(-0.2563)Met+(0.0113)Orn+(0.0446)Ile;0.722,0.762,0.798,0.835,0.749,0.
792,0.807,0.796,(1.5279)+(-0.1081)Asn+(0.0058)Gln+(-0.0061)Ala+(-0.05
07)Tyr+(-0.0075)Lys+(0.0789)Phe;0.722,0.775,0.764,0.797,0.762,0.843,0
.626,0.757,(0.5078)+(0.0341)Ser+(0.0022)Gln+(-0.0142)Arg+(0.0080)Tyr+
(-0.0044)Val+(-0.2359)Met;0.722,0.767,0.806,0.819,0.778,0.802,0.836,0
.809,(2.1930)+(-0.1727)Asn+(0.0076)Gln+(-0.0613)Cit+(-0.0366)Val+(0.0
405)Leu+(0.0687)Phe;0.722,0.764,0.742,0.737,0.734,0.773,0.747,0.748,(
2.7097)+(-0.0170)Asn+(0.0023)Gly+(-0.0120)Tyr+(-0.2218)Met+(-0.0089)L
ys+(0.0588)Ile;0.722,0.770,0.717,0.769,0.643,0.784,0.684,0.720,(-1.12
42)+(0.0207)Ser+(-0.0068)Ala+(-0.0607)Tyr+(-0.0143)Val+(0.0206)Orn+(0
.0847)Phe;0.722,0.760,0.716,0.720,0.714,0.741,0.694,0.717,(2.3013)+(-
0.0391)Asn+(0.0007)Gly+(0.0208)Thr+(-0.0235)Tyr+(-0.2742)Met+(0.0525)
Ile;0.722,0.766,0.653,0.661,0.649,0.749,0.569,0.657,(-0.1927)+(0.0296
)Ser+(-0.0710)Cit+(-0.0167)Arg+(0.0018)Pro+(-0.0623)Tyr+(0.0427)Ile;0
.722,0.760,0.727,0.729,0.705,0.794,0.722,0.737,(2.1475)+(0.0002)Gly+(

-0.0351)Arg+(-0.0060)Pro+(0.0179)Orn+(0.1682)Ile+(-0.0981)Leu;0.722,0.760,0.755,0.763,0.757,0.828,0.677,0.756,(3.9175)+(0.0042)Thr+(-0.0092)Ala+(-0.1133)Cit+(-0.0064)Arg+(-0.0358)Tyr+(0.0566)Orn;0.722,0.766,0.759,0.759,0.785,0.801,0.676,0.755,(4.8303)+(-0.0584)Asn+(-0.0996)Cit+(0.0023)Arg+(-0.0251)Tyr+(-0.1061)Met+(0.0526)Orn;0.722,0.763,0.759,0.789,0.761,0.728,0.700,0.745,(1.3941)+(-0.0424)Asn+(0.0029)Gly+(-0.0072)Arg+(-0.0271)Tyr+(-0.2189)Met+(0.0968)Phe;0.722,0.763,0.748,0.760,0.779,0.754,0.646,0.735,(0.8986)+(0.0056)Gly+(-0.0737)Cit+(-0.2699)Met+(-0.0050)Lys+(-0.0034)Leu+(0.1071)Phe;0.722,0.771,0.746,0.753,0.737,0.845,0.674,0.752,(1.9599)+(0.0311)Ser+(-0.0074)Ala+(-0.0814)Cit+(-0.0184)Tyr+(-0.0147)Lys+(0.0149)Leu;0.722,0.768,0.758,0.782,0.733,0.827,0.700,0.761,(3.5412)+(0.0121)Thr+(-0.0067)Ala+(0.0140)Pro+(-0.0108)Val+(-0.2261)Met+(0.0232)Orn;0.722,0.768,0.706,0.687,0.724,0.794,0.657,0.716,(3.5347)+(-0.1155)Cit+(0.0061)Arg+(-0.0514)Tyr+(0.0514)Orn+(-0.0243)Lys+(0.0441)Ile;0.722,0.762,0.763,0.779,0.736,0.819,0.738,0.768,(3.7252)+(-0.0068)Ala+(0.0142)Pro+(-0.0104)Val+(-0.1879)Met+(0.0292)Orn+(-0.0007)Lys;0.722,0.775,0.694,0.675,0.676,0.798,0.708,0.714,(-0.4774)+(0.0438)Ser+(-0.1415)Asn+(0.0016)Gln+(-0.0015)Pro+(-0.0186)Lys+(0.0456)Ile;0.722,0.767,0.769,0.790,0.773,0.773,0.703,0.760,(3.5057)+(-0.1504)Asn+(0.0159)Thr+(-0.0200)Arg+(-0.0248)Val+(0.0322)Orn+(0.0776)Phe;0.722,0.767,0.763,0.784,0.775,0.808,0.646,0.753,(2.8317)+(0.0045)Gln+(0.0184)Thr+(-0.0724)Cit+(0.0100)Pro+(-0.0081)Val+(-0.2798)Met;0.722,0.767,0.696,0.730,0.660,0.720,0.664,0.694,(-1.1829)+(0.0451)Ser+(-0.0096)Gly+(-0.0010)Thr+(-0.0279)Arg+(-0.0814)Tyr+(0.0708)Phe;0.722,0.765,0.773,0.779,0.736,0.838,0.786,0.785,(2.0072)+(0.0460)Ser+(-0.1346)Asn+(-0.0061)Gly+(0.0000)Thr+(-0.0057)Ala+(0.0004)Leu;0.722,0.766,0.758,0.764,0.739,0.826,0.730,0.765,(5.4129)+(-0.1571)Asn+(0.0175)Thr+(-0.0154)Arg+(-0.0500)Val+(0.0388)Orn+(0.0636)Leu;0.722,0.770,0

.729,0.742,0.703,0.777,0.714,0.734,(2.3821)+(0.0497)Ser+(-0.1180)Asn+(-0.0078)Gly+(0.0078)Pro+(-0.0408)Tyr+(-0.0075)Lys;0.722,0.768,0.746,0.739,0.738,0.769,0.766,0.753,(3.0754)+(-0.0138)Asn+(0.0029)Pro+(-0.0162)Tyr+(-0.2198)Met+(-0.0085)Lys+(0.0542)Ile;0.722,0.760,0.732,0.733,0.705,0.795,0.738,0.743,(2.3122)+(-0.0053)Thr+(-0.0318)Arg+(-0.0056)Pro+(0.0204)Orn+(0.1685)Ile+(-0.0981)Leu;0.722,0.760,0.773,0.802,0.768,0.730,0.738,0.759,(2.0189)+(-0.0441)Asn+(-0.0302)Tyr+(-0.1912)Met+(-0.0020)Lys+(-0.0097)Leu+(0.1038)Phe;0.722,0.763,0.691,0.729,0.677,0.730,0.593,0.682,(-1.2048)+(0.0311)Ser+(-0.0068)Thr+(-0.0817)Cit+(-0.0699)Tyr+(-0.0135)Leu+(0.0898)Phe;0.722,0.764,0.750,0.748,0.785,0.816,0.634,0.746,(4.2086)+(0.0014)Gly+(-0.1026)Cit+(-0.0164)Tyr+(-0.1407)Met+(0.0554)Orn+(-0.0094)Lys;0.722,0.764,0.718,0.725,0.724,0.744,0.668,0.715,(2.7872)+(-0.0285)Asn+(0.0254)Thr+(-0.0161)Arg+(-0.0243)Tyr+(-0.2693)Met+(0.0531)Ile;0.722,0.759,0.756,0.754,0.749,0.819,0.730,0.763,(1.5498)+(0.0002)Gln+(-0.0107)Ala+(-0.1150)Cit+(-0.0123)Val+(0.0543)Orn+(0.0547)Phe;0.722,0.757,0.729,0.728,0.716,0.829,0.689,0.740,(1.2137)+(0.0285)Ser+(-0.0005)Gln+(-0.0125)Ala+(-0.0815)Cit+(-0.0114)Arg+(0.0133)Pro;0.722,0.773,0.778,0.769,0.810,0.838,0.692,0.777,(3.2571)+(-0.1209)Asn+(0.0058)Gln+(0.0069)Thr+(-0.1136)Cit+(0.0491)Orn+(-0.0168)Lys;0.722,0.767,0.692,0.682,0.686,0.771,0.671,0.703,(-0.4617)+(0.0462)Ser+(-0.1447)Asn+(-0.0059)Thr+(-0.0173)Arg+(-0.0003)Pro+(0.0350)Ile;0.722,0.766,0.785,0.791,0.787,0.783,0.764,0.781,(1.8340)+(-0.0058)Ala+(-0.0710)Cit+(0.0044)Arg+(-0.2266)Met+(-0.0013)Leu+(0.0972)Phe;0.722,0.762,0.800,0.815,0.737,0.843,0.857,0.813,(4.0659)+(-0.1388)Asn+(0.0050)Gln+(-0.0068)Ala+(0.0108)Pro+(-0.0389)Val+(0.0541)Leu;0.722,0.768,0.698,0.750,0.609,0.769,0.691,0.705,(-0.9877)+(0.0235)Ser+(-0.0091)Ala+(0.0121)Pro+(-0.0618)Tyr+(-0.0133)Val+(0.0799)Phe;0.722,0.772,0.696,0.681,0.717,0.793,0.623,0.704,(3.5441)+(0.0089)Thr+(-0.1132)Cit+(

-0.0557)Tyr+(0.0487)Orn+(-0.0251)Lys+(0.0444)Ile;0.722,0.774,0.712,0.743,0.669,0.737,0.701,0.712,(-0.7181)+(0.0453)Ser+(-0.0104)Gly+(-0.0728)Tyr+(-0.0186)Lys+(-0.0083)Leu+(0.0870)Phe;0.722,0.769,0.758,0.746,0.799,0.824,0.657,0.757,(4.9749)+(-0.0971)Asn+(0.0087)Thr+(-0.1081)Cit+(0.0552)Orn+(-0.0133)Lys+(-0.0069)Leu;0.722,0.768,0.738,0.726,0.763,0.796,0.675,0.740,(1.4139)+(-0.1510)Asn+(0.0046)Gly+(0.0048)Gln+(-0.1131)Cit+(0.0329)Orn+(0.0221)Ile;0.722,0.766,0.738,0.739,0.788,0.802,0.584,0.728,(3.4186)+(0.0012)Gly+(0.0172)Thr+(-0.0965)Cit+(-0.0066)Arg+(-0.2522)Met+(0.0399)Orn;0.722,0.766,0.661,0.695,0.641,0.735,0.556,0.657,(-1.3574)+(0.0359)Ser+(-0.0230)Arg+(0.0060)Pro+(-0.0691)Tyr+(-0.0174)Lys+(0.0764)Phe;0.722,0.768,0.769,0.773,0.795,0.829,0.662,0.765,(2.9783)+(0.0045)Gln+(-0.1041)Cit+(-0.0172)Tyr+(-0.1588)Met+(0.0512)Orn+(-0.0111)Lys;0.722,0.766,0.657,0.664,0.681,0.764,0.508,0.655,(1.3164)+(0.0243)Ser+(-0.0023)Gln+(-0.1059)Cit+(0.0045)Pro+(-0.0638)Tyr+(0.0414)Orn;0.722,0.763,0.770,0.772,0.790,0.749,0.740,0.763,(2.2322)+(-0.0322)Asn+(-0.0684)Cit+(0.0086)Arg+(-0.2302)Met+(-0.0065)Lys+(0.0937)Phe;0.722,0.768,0.787,0.791,0.776,0.834,0.766,0.791,(4.5451)+(0.0032)Gly+(-0.0040)Ala+(-0.0560)Cit+(-0.0294)Val+(-0.1823)Met+(0.0579)Leu;0.722,0.765,0.782,0.789,0.739,0.841,0.810,0.794,(5.5541)+(-0.1402)Asn+(0.0215)Thr+(-0.0048)Ala+(-0.0425)Val+(-0.0046)Lys+(0.0662)Leu;0.722,0.763,0.771,0.795,0.773,0.747,0.723,0.760,(2.0132)+(-0.0537)Cit+(-0.0209)Tyr+(-0.0113)Val+(-0.2277)Met+(0.0006)Lys+(0.1180)Phe;0.722,0.756,0.753,0.788,0.699,0.760,0.771,0.755,(2.6765)+(-0.0966)Asn+(0.0017)Gly+(-0.0092)Ala+(0.0109)Pro+(-0.0530)Tyr+(0.0726)Phe;0.722,0.766,0.788,0.797,0.748,0.842,0.808,0.799,(3.9765)+(-0.1566)Asn+(0.0046)Gln+(-0.0456)Val+(0.0374)Orn+(-0.0054)Lys+(0.0595)Leu;0.722,0.765,0.759,0.783,0.763,0.737,0.701,0.746,(0.9865)+(0.0022)Gly+(-0.0071)Arg+(-0.0231)Tyr+(-0.2516)Met+(-0.0050)Lys+(0.0997)Phe;0.722,0.764,0.794,0.799,0.

750,0.837,0.841,0.807,(1.8158)+(-0.1080)Asn+(0.0046)Gln+(0.0073)Thr+(-0.0103)Ala+(-0.0178)Arg+(0.0425)Ile;0.722,0.767,0.762,0.786,0.726,0.791,0.748,0.763,(1.5975)+(0.0453)Ser+(-0.1475)Asn+(-0.0081)Gly+(0.0034)Gln+(0.0017)Thr+(-0.0397)Tyr;0.722,0.761,0.657,0.659,0.643,0.743,0.622,0.667,(-0.3191)+(0.0331)Ser+(-0.0011)Gln+(-0.0101)Thr+(-0.0786)Cit+(-0.0573)Tyr+(0.0462)Ile;0.722,0.759,0.764,0.774,0.762,0.830,0.696,0.765,(3.1650)+(0.0024)Gln+(-0.0092)Ala+(-0.1138)Cit+(-0.0072)Arg+(-0.0352)Tyr+(0.0555)Orn;0.722,0.768,0.729,0.747,0.702,0.768,0.711,0.732,(2.4063)+(0.0479)Ser+(-0.1301)Asn+(-0.0077)Gly+(0.0080)Pro+(-0.0441)Tyr+(-0.0051)Leu;0.722,0.764,0.788,0.813,0.766,0.786,0.770,0.784,(1.9660)+(-0.1637)Asn+(0.0012)Gly+(0.0037)Gln+(-0.0230)Val+(0.0288)Orn+(0.0710)Phe;0.722,0.767,0.725,0.764,0.707,0.778,0.621,0.717,(1.3037)+(0.0377)Ser+(-0.1366)Asn+(0.0030)Gln+(-0.0176)Arg+(0.0074)Pro+(-0.0395)Tyr;0.721,0.769,0.757,0.777,0.736,0.799,0.715,0.757,(2.6837)+(0.0493)Ser+(-0.1102)Asn+(-0.0076)Gly+(-0.0101)Arg+(-0.0301)Tyr+(-0.0043)Lys;0.721,0.763,0.737,0.763,0.722,0.811,0.648,0.736,(2.9448)+(0.0393)Ser+(-0.1395)Asn+(-0.0158)Arg+(0.0099)Pro+(-0.0145)Val+(0.0003)Lys;0.721,0.762,0.767,0.785,0.697,0.813

,0.833,0.782,(2.4911)+(-0.0955)Asn+(0.0039)Gln+(-0.0103)Ala+(0.0076)Pro+(-0.0413)Tyr+(0.0428)Ile;0.721,0.761,0.738,0.786,0.714,0.703,0.688,0.722,(2.7399)+(-0.1098)Asn+(0.0063)Pro+(-0.0691)Tyr+(0.0266)Orn+(-0.0247)Leu+(0.0866)Phe;0.721,0.766,0.728,0.759,0.654,0.773,0.770,0.739,(-1.2505)+(0.0397)Ser+(-0.0085)Gly+(-0.0062)Thr+(-0.0073)Ala+(-0.0647)Tyr+(0.0693)Phe;0.721,0.764,0.767,0.791,0.770,0.776,0.694,0.758,(3.0569)+(-0.1278)Asn+(0.0057)Gly+(-0.0670)Cit+(-0.0161)Val+(-0.0012)Lys+(0.0887)Phe;0.721,0.761,0.741,0.733,0.714,0.819,0.766,0.758,(0.9546)+(0.0364)Ser+(-0.0034)Gly+(-0.0123)Thr+(-0.0122)Ala+(-0.0814)Cit+(0.0142)Pro;0.721,0.761,0.746,0.755,0.718,0.803,0.739,0.754,(2.9944)+(0.0

467)Ser+(-0.1529)Asn+(-0.0068)Gly+(0.0000)Thr+(0.0092)Pro+(-0.0153)Val;0.721,0.766,0.725,0.726,0.695,0.779,0.746,0.736,(0.9262)+(-0.0063)Thr+(-0.0340)Arg+(0.0128)Orn+(0.1604)Ile+(-0.1038)Leu+(0.0425)Phe;0.721,0.766,0.787,0.834,0.756,0.743,0.756,0.772,(3.5821)+(-0.1069)Asn+(-0.0087)Arg+(-0.0498)Tyr+(-0.0173)Val+(0.0046)Lys+(0.1009)Phe;0.721,0.765,0.790,0.789,0.783,0.825,0.780,0.794,(5.2529)+(-0.0331)Asn+(-0.0087)Ala+(-0.0739)Cit+(0.0077)Arg+(0.0150)Pro+(-0.1315)Met;0.721,0.764,0.743,0.762,0.765,0.746,0.643,0.729,(1.1440)+(0.0052)Gly+(-0.0726)Cit+(-0.0195)Tyr+(-0.2459)Met+(-0.0055)Lys+(0.1095)Phe;0.721,0.761,0.766,0.787,0.778,0.744,0.698,0.752,(0.7116)+(0.0027)Gly+(-0.0089)Arg+(-0.2781)Met+(-0.0031)Lys+(-0.0072)Leu+(0.0996)Phe;0.721,0.758,0.805,0.816,0.780,0.834,0.805,0.809,(3.4284)+(-0.1031)Asn+(0.0065)Gln+(-0.0100)Ala+(-0.0845)Cit+(0.0113)Pro+(-0.0012)Leu;0.721,0.764,0.715,0.718,0.714,0.735,0.696,0.716,(2.4223)+(-0.0382)Asn+(0.0209)Thr+(0.0024)Pro+(-0.0258)Tyr+(-0.2750)Met+(0.0497)Ile;0.721,0.763,0.769,0.807,0.756,0.723,0.728,0.753,(-0.9448)+(0.0004)Gly+(0.0046)Gln+(-0.0270)Tyr+(-0.2870)Met+(-0.0095)Leu+(0.1053)Phe;0.721,0.763,0.755,0.767,0.697,0.799,0.813,0.769,(3.7554)+(-0.0642)Asn+(-0.0104)Ala+(-0.0092)Arg+(0.0085)Pro+(-0.0382)Tyr+(0.0453)Ile;0.721,0.763,0.791,0.813,0.756,0.826,0.781,0.794,(4.0734)+(-0.1771)Asn+(0.0061)Gln+(0.0201)Thr+(-0.0168)Arg+(-0.0455)Val+(0.0613)Leu;0.721,0.768,0.772,0.768,0.803,0.829,0.676,0.769,(2.6026)+(0.0047)Gln+(-0.1034)Cit+(-0.1933)Met+(0.0475)Orn+(-0.0122)Lys+(0.0037)Leu;0.721,0.762,0.789,0.791,0.783,0.823,0.771,0.792,(5.2676)+(-0.0289)Asn+(-0.0085)Ala+(-0.0678)Cit+(0.0148)Pro+(-0.1320)Met+(0.0014)Lys;0.721,0.770,0.747,0.792,0.729,0.800,0.627,0.737,(1.4913)+(0.0349)Ser+(-0.1407)Asn+(0.0035)Gln+(0.0043)Thr+(-0.0169)Arg+(-0.0324)Tyr;0.721,0.763,0.782,0.780,0.777,0.817,0.769,0.786,(4.7398)+(-0.0091)Ala+(-0.0705)Cit+(0.0147)Pro+(-0.1622)Met+(-0.0010)Lys+(0.0067)Leu;0.72

1,0.759,0.728,0.730,0.703,0.803,0.723,0.740,(-1.0280)+(0.0328)Ser+(-0.0007)Gln+(-0.0104)Thr+(-0.0106)Ala+(-0.0883)Cit+(0.0581)Phe;0.721,0.763,0.749,0.764,0.680,0.797,0.817,0.764,(1.8164)+(-0.0001)Gly+(-0.0097)Ala+(-0.0488)Tyr+(-0.0178)Lys+(0.0526)Ile+(0.0483)Phe;0.721,0.767,0.708,0.755,0.644,0.778,0.668,0.711,(-0.5746)+(0.0278)Ser+(-0.0027)Gln+(-0.0061)Ala+(-0.0565)Tyr+(-0.0119)Val+(0.0907)Phe;0.721,0.766,0.761,0.792,0.735,0.819,0.691,0.760,(3.9887)+(0.0173)Thr+(-0.0065)Ala+(0.0151)Pro+(-0.0104)Tyr+(-0.0084)Val+(-0.2196)Met;0.721,0.761,0.739,0.734,0.744,0.766,0.721,0.741,(2.1429)+(-0.0226)Asn+(0.0025)Gly+(-0.0101)Arg+(-0.2523)Met+(0.0102)Orn+(0.0490)Ile;0.721,0.760,0.747,0.761,0.680,0.800,0.813,0.764,(3.3602)+(-0.0788)Asn+(0.0015)Gly+(-0.0105)Ala+(0.0084)Pro+(-0.0386)Tyr+(0.0455)Ile;0.721,0.754,0.762,0.762,0.769,0.836,0.692,0.765,(3.5295)+(0.0011)Gly+(-0.0092)Ala+(-0.1109)Cit+(-0.0079)Arg+(-0.0080)Val+(0.0593)Orn;0.721,0.773,0.751,0.782,0.753,0.823,0.615,0.743,(0.1246)+(0.0357)Ser+(0.0020)Gln+(-0.0135)Arg+(0.0051)Tyr+(-0.2445)Met+(-0.0014)Lys;0.721,0.767,0.766,0.781,0.734,0.818,0.754,0.772,(5.6166)+(-0.1186)Asn+(-0.0091)Arg+(-0.0239)Tyr+(-0.0420)Val+(0.0461)Orn+(0.0550)Leu;0.721,0.765,0.721,0.716,0.701,0.737,0.759,0.729,(-1.5472)+(0.0524)Ser+(-0.1850)Asn+(-0.0050)Gly+(0.0021)Gln+(-0.0085)Thr+(0.0468)Phe;0.721,0.764,0.771,0.795,0.777,0.739,0.717,0.757,(2.6259)+(-0.0408)Asn+(-0.0590)Cit+(-0.0291)Tyr+(-0.1757)Met+(-0.0087)Leu+(0.1065)Phe;0.721,0.762,0.776,0.785,0.721,0.796,0.850,0.788,(3.9585)+(-0.1300)Asn+(-0.0076)Ala+(0.0106)Pro+(-0.0385)Val+(0.0457)Leu+(0.0647)Phe;0.721,0.766,0.748,0.739,0.793,0.815,0.633,0.745,(3.8315)+(0.0021)Gly+(-0.1028)Cit+(-0.1725)Met+(0.0521)Orn+(-0.0103)Lys+(0.0028)Leu;0.721,0.765,0.776,0.819,0.726,0.771,0.769,0.771,(1.4978)+(-0.1424)Asn+(0.0045)Gln+(0.0162)Thr+(-0.0073)Ala+(-0.0623)Tyr+(0.0803)Phe;0.721,0.759,0.767,0.754,0.729,0.834,0.831,0.787,(1.1967)+(0.0028)Gln+(0.0006)

Thr+(-0.0143)Ala+(-0.0951)Cit+(-0.0056)Arg+(0.0584)Ile;0.721,0.772,0.695,0.717,0.656,0.730,0.696,0.699,(-0.6805)+(0.0472)Ser+(-0.0101)Gly+(-0.0008)Gln+(-0.0725)Tyr+(-0.0207)Lys+(0.0797)Phe;0.721,0.766,0.709,0.715,0.713,0.743,0.660,0.708,(2.3017)+(0.0242)Thr+(-0.0182)Arg+(0.0026)Pro+(-0.0237)Tyr+(-0.3025)Met+(0.0529)Ile;0.721,0.759,0.776,0.785,0.796,0.752,0.727,0.765,(2.3704)+(-0.0333)Asn+(-0.0605)Cit+(-0.2188)Met+(-0.0028)Lys+(-0.0068)Leu+(0.0978)Phe;0.721,0.762,0.755,0.755,0.778,0.731,0.723,0.747,(1.7762)+(-0.0311)Asn+(-0.0664)Cit+(0.0043)Arg+(0.0066)Pro+(-0.2711)Met+(0.0872)Phe;0.721,0.758,0.733,0.737,0.701,0.797,0.739,0.744,(1.3137)+(0.0027)Gln+(-0.0082)Thr+(-0.0344)Arg+(0.0147)Orn+(0.1615)Ile+(-0.0979)Leu;0.721,0.767,0.728,0.761,0.701,0.795,0.650,0.727,(3.0854)+(0.0371)Ser+(-0.1404)Asn+(0.0110)Pro+(-0.0269)Tyr+(-0.0123)Val+(-0.0006)Lys;0.721,0.765,0.792,0.792,0.741,0.836,0.867,0.809,(1.0204)+(-0.1221)Asn+(0.0036)Gln+(-0.0112)Ala+(0.0054)Orn+(0.0348)Ile+(0.0283)Phe;0.721,0.762,0.796,0.850,0.769,0.752,0.738,0.777,(1.2992)+(-0.1153)Asn+(0.0068)Gln+(-0.0165)Arg+(-0.0602)Tyr+(-0.0180)Leu+(0.0906)Phe;0.721,0.759,0.726,0.724,0.673,0.782,0.801,0.745,(0.8535)+(0.0007)Gln+(-0.0167)Thr+(-0.0057)Pro+(0.0115)Orn+(0.1622)Ile+(-0.0945)Leu;0.721,0.774,0.771,0.792,0.730,0.849,0.743,0.779,(1.1637)+(0.0372)Ser+(-0.1342)Asn+(0.0026)Gln+(-0.0055)Ala+(-0.0081)Lys+(0.0050)Leu;0.721,0.760,0.766,0.806,0.716,0.754,0.770,0.762,(3.1975)+(-0.0919)Asn+(-0.0080)Ala+(0.0122)Pro+(-0.0543)Tyr+(-0.0157)Leu+(0.0881)Phe;0.721,0.759,0.774,0.797,0.795,0.806,0.647,0.761,(5.5742)+(-0.0659)Asn+(0.0255)Thr+(-0.0612)Cit+(-0.0068)Val+(-0.1811)Met+(0.0010)Lys;0.721,0.761,0.748,0.764,0.783,0.781,0.606,0.733,(4.3407)+(-0.0569)Asn+(0.0026)Gly+(0.0249)Thr+(-0.0755)Cit+(-0.2268)Met+(0.0062)Leu;0.721,0.759,0.753,0.760,0.752,0.824,0.684,0.755,(3.6974)+(0.0004)Gly+(0.0021)Thr+(-0.0094)Ala+(-0.1186)Cit+(-0.0352)Tyr+(0.0570)Orn;0.721,0.766,0.708,0.74

2,0.698,0.769,0.597,0.702,(2.0446)+(0.0390)Ser+(-0.1273)Asn+(0.0031)Thr+(-0.0167)Arg+(0.0078)Pro+(-0.0403)Tyr;0.721,0.764,0.701,0.709,0.657,0.806,0.698,0.717,(-1.1455)+(0.0329)Ser+(-0.0026)Gln+(-0.0129)Ala+(-0.0283)Arg+(0.0102)Pro+(0.0449)Phe;0.721,0.764,0.794,0.801,0.785,0.830,0.771,0.797,(5.8584)+(-0.0357)Asn+(-0.0074)Ala+(-0.0609)Cit+(0.0155)Pro+(-0.0056)Val+(-0.1133)Met;0.721,0.759,0.719,0.718,0.692,0.808,0.714,0.733,(-0.8526)+(0.0271)Ser+(-0.0139)Ala+(-0.0960)Cit+(0.0114)Pro+(-0.0080)Leu+(0.0518)Phe;0.721,0.764,0.764,0.810,0.730,0.748,0.724,0.753,(2.9457)+(-0.1235)Asn+(0.0195)Thr+(-0.0058)Ala+(-0.0614)Tyr+(-0.0142)Leu+(0.0978)Phe;0.721,0.774,0.786,0.789,0.808,0.805,0.716,0.780,(1.5952)+(-0.1483)Asn+(0.0055)Gln+(-0.1075)Cit+(0.0435)Orn+(-0.0227)Leu+(0.0576)Phe;0.721,0.766,0.754,0.752,0.792,0.811,0.640,0.748,(4.0501)+(-0.0609)Asn+(0.0035)Gly+(-0.1035)Cit+(0.0024)Arg+(-0.1506)Met+(0.0484)Orn;0.721,0.761,0.771,0.775,0.753,0.818,0.766,0.778,(3.9679)+(-0.0389)Asn+(-0.0078)Ala+(0.0120)Pro+(-0.1552)Met+(0.0255)Orn+(-0.0043)Lys;0.721,0.765,0.655,0.699,0.619,0.713,0.571,0.650,(-0.4193)+(0.0265)Ser+(-0.0044)Gln+(-0.0720)Tyr+(-0.0175)Val+(0.0232)Orn+(0.0884)Phe;0.721,0.760,0.770,0.764,0.729,0.826,0.832,0.788,(2.9580)+(-0.0808)Asn+(-0.0117)Ala+(-0.0134)Arg+(0.0063)Pro+(0.0134)Orn+(0.0366)Ile;0.721,0.769,0.693,0.755,0.670,0.746,0.538,0.677,(-1.3594)+(0.0310)Ser+(-0.0003)Thr+(-0.0301)Arg+(-0.0694)Tyr+(-0.0179)Leu+(0.0903)Phe;0.721,0.762,0.771,0.793,0.773,0.748,0.724,0.759,(1.9899)+(-0.0553)Cit+(0.0019)Arg+(-0.0210)Tyr+(-0.0111)Val+(-0.2283)Met+(0.1179)Phe;0.721,0.761,0.765,0.781,0.750,0.806,0.725,0.765,(3.9324)+(-0.0506)Asn+(0.0005)Gly+(0.0179)Thr+(-0.0075)Ala+(0.0123)Pro+(-0.2030)Met;0.721,0.769,0.771,0.793,0.736,0.808,0.759,0.774,(1.7143)+(0.0466)Ser+(-0.1332)Asn+(-0.0084)Gly+(0.0039)Gln+(-0.0328)Tyr+(-0.0073)Lys;0.721,0.769,0.694,0.674,0.678,0.735,0.748,0.709,(-1.6424)+(0.0498)Ser+(-0.1977)Asn+(-0.0046)Gly

+(0.0015)Gln+(0.0174)Ile+(0.0335)Phe;0.721,0.764,0.793,0.816,0.769,0.791,0.783,0.790,(2.1450)+(-0.1540)Asn+(0.0040)Gln+(-0.0218)Val+(0.0302)Orn+(-0.0042)Lys+(0.0692)Phe;0.721,0.762,0.809,0.838,0.773,0.806,0.809,0.806,(2.0915)+(-0.1680)Asn+(0.0044)Gln+(0.0149)Thr+(-0.0055)Ala+(-0.0186)Val+(0.0823)Phe;0.721,0.774,0.723,0.763,0.663,0.800,0.685,0.728,(-1.0013)+(0.0305)Ser+(-0.0066)Ala+(-0.0530)Tyr+(-0.0170)Lys+(-0.0031)Leu+(0.0833)Phe;0.721,0.763,0.767,0.779,0.741,0.825,0.743,0.772,(3.1933)+(0.0455)Ser+(-0.1406)Asn+(-0.0071)Gly+(0.0044)Thr+(-0.0105)Val+(-0.0043)Lys;0.721,0.765,0.779,0.796,0.754,0.826,0.751,0.782,(2.2151)+(0.0038)Gln+(-0.0079)Ala+(-0.0155)Arg+(0.0122)Pro+(-0.2088)Met+(0.0211)Orn;0.721,0.765,0.780,0.796,0.777,0.771,0.749,0.773,(2.1237)+(-0.0051)Ala+(-0.0654)Cit+(-0.0192)Tyr+(-0.1981)Met+(-0.0025)Leu+(0.1036)Phe;0.721,0.767,0.752,0.734,0.795,0.819,0.659,0.752,(4.7253)+(-0.0960)Asn+(0.0093)Thr+(-0.1091)Cit+(-0.0000)Pro+(0.0533)Orn+(-0.0160)Lys;0.721,0.763,0.761,0.788,0.762,0.730,0.711,0.748,(0.8656)+(0.0018)Gly+(-0.0243)Tyr+(-0.2505)Met+(-0.0047)Lys+(-0.0065)Leu+(0.1052)Phe;0.721,0.759,0.637,0.633,0.594,0.704,0.691,0.656,(-0.2323)+(0.0413)Ser+(-0.0094)Gly+(-0.0031)Gln+(0.0020)Pro+(-0.0768)Tyr+(0.0368)Ile;0.721,0.758,0.757,0.751,0.751,0.845,0.721,0.767,(3.6869)+(-0.0118)Ala+(-0.1091)Cit+(-0.0081)Arg+(0.0112)Pro+(-0.0098)Val+(0.0555)Orn;0.721,0.767,0.759,0.750,0.710,0.818,0.843,0.780,(1.7205)+(-0.0128)Ala+(-0.0133)Arg+(0.0061)Pro+(-0.0178)Lys+(0.0477)Ile+(0.0261)Phe;0.721,0.766,0.758,0.765,0.746,0.760,0.762,0.758,(4.0226)+(-0.1793)Asn+(0.0246)Thr+(-0.0145)Arg+(-0.0476)Val+(0.0536)Leu+(0.0720)Phe;0.721,0.764,0.779,0.776,0.774,0.815,0.773,0.785,(4.4961)+(-0.0095)Ala+(-0.0768)Cit+(0.0064)Arg+(0.0149)Pro+(-0.1729)Met+(0.0069)Leu;0.721,0.763,0.773,0.783,0.757,0.830,0.742,0.778,(4.7085)+(-0.0791)Asn+(0.0048)Gly+(-0.0104)Ala+(-0.0821)Cit+(0.0132)Pro+(0.0012)Le

u;0.721,0.761,0.743,0.741,0.735,0.764,0.751,0.748,(0.3171)+(0.0009)Gl
y+(0.0037)Gln+(0.0017)Pro+(-0.3189)Met+(0.0001)Orn+(0.0511)Ile;0.721,
0.760,0.732,0.728,0.684,0.788,0.802,0.751,(1.4006)+(-0.0006)Gly+(0.00
16)Gln+(-0.0111)Thr+(-0.0112)Lys+(0.1500)Ile+(-0.0845)Leu;0.721,0.759
,0.637,0.659,0.635,0.693,0.541,0.632,(-1.0100)+(0.0314)Ser+(-0.0020)G
ln+(-0.0849)Cit+(0.0051)Pro+(-0.0829)Tyr+(0.0702)Phe;0.721,0.758,0.75
4,0.762,0.752,0.826,0.686,0.756,(3.7837)+(0.0024)Thr+(-0.0092)Ala+(-0
.1179)Cit+(-0.0355)Tyr+(0.0572)Orn+(-0.0008)Leu;0.721,0.767,0.668,0.6
62,0.610,0.760,0.741,0.693,(-2.9077)+(0.0187)Ser+(-0.0083)Pro+(-0.009
3)Orn+(0.1602)Ile+(-0.0982)Leu+(0.0387)Phe;0.721,0.764,0.767,0.791,0.
769,0.774,0.695,0.757,(3.0208)+(-0.1306)Asn+(0.0057)Gly+(-0.0669)Cit+
(0.0002)Arg+(-0.0166)Val+(0.0887)Phe;0.721,0.773,0.721,0.758,0.660,0.
803,0.688,0.727,(-1.0345)+(0.0309)Ser+(-0.0001)Thr+(-0.0068)Ala+(-0.0
526)Tyr+(-0.0177)Lys+(0.0804)Phe;0.721,0.765,0.753,0.771,0.690,0.801,
0.805,0.766,(1.9806)+(-0.0095)Ala+(-0.0101)Arg+(-0.0473)Tyr+(-0.0149)
Lys+(0.0516)Ile+(0.0499)Phe;0.721,0.764,0.701,0.704,0.687,0.732,0.699
,0.706,(-1.7953)+(0.0468)Ser+(-0.1867)Asn+(0.0016)Gln+(-0.0091)Thr+(0
.0013)Pro+(0.0494)Phe;0.721,0.759,0.713,0.743,0.710,0.744,0.618,0.704
,(1.4751)+(0.0021)Thr+(-0.1009)Cit+(-0.0733)Tyr+(-0.0166)Val+(0.0528)
Orn+(0.0822)Phe;0.721,0.769,0.705,0.688,0.704,0.772,0.702,0.717,(-0.0
324)+(0.0493)Ser+(-0.1524)Asn+(-0.0046)Gly+(-0.0197)Arg+(0.0083)Orn+(
0.0272)Ile;0.721,0.766,0.745,0.753,0.777,0.753,0.650,0.734,(0.7959)+(
0.0057)Gly+(-0.0807)Cit+(0.0072)Arg+(-0.2777)Met+(-0.0075)Lys+(0.1055
)Phe;0.721,0.763,0.761,0.770,0.740,0.771,0.771,0.763,(1.1577)+(-0.049
2)Asn+(0.0051)Gln+(-0.0194)Tyr+(-0.2350)Met+(0.0057)Orn+(0.0473)Ile;0
.721,0.762,0.819,0.839,0.807,0.832,0.784,0.815,(2.8117)+(-0.0661)Asn+
(0.0081)Gln+(-0.0053)Ala+(-0.0789)Cit+(-0.1317)Met+(0.0081)Leu;0.721,
0.762,0.774,0.805,0.772,0.730,0.731,0.759,(2.1226)+(-0.0421)Asn+(-0.0

063)Arg+(-0.0303)Tyr+(-0.1870)Met+(-0.0107)Leu+(0.1043)Phe;0.721,0.762,0.634,0.664,0.608,0.712,0.548,0.633,(-2.3122)+(0.0320)Ser+(-0.0332)Arg+(-0.0790)Tyr+(0.0038)Orn+(0.0300)Ile+(0.0506)Phe;0.721,0.766,0.793,0.809,0.757,0.846,0.786,0.800,(3.9632)+(-0.1542)Asn+(0.0055)Gln+(-0.0149)Arg+(-0.0457)Val+(0.0388)Orn+(0.0570)Leu;0.721,0.759,0.779,0.804,0.734,0.792,0.794,0.781,(3.1296)+(-0.1251)Asn+(0.0029)Gly+(-0.0078)Ala+(0.0114)Pro+(-0.0176)Val+(0.0784)Phe;0.721,0.757,0.718,0.747,0.713,0.744,0.631,0.709,(1.6948)+(-0.0007)Gly+(-0.0993)Cit+(-0.0719)Tyr+(-0.0165)Val+(0.0540)Orn+(0.0814)Phe;0.721,0.770,0.687,0.717,0.640,0.768,0.647,0.693,(-0.8867)+(0.0307)Ser+(-0.0577)Tyr+(-0.0243)Val+(-0.0188)Lys+(0.0289)Leu+(0.0796)Phe;0.721,0.769,0.752,0.733,0.794,0.821,0.665,0.753,(4.6998)+(-0.0972)Asn+(0.0087)Thr+(-0.1117)Cit+(0.0034)Arg+(0.0537)Orn+(-0.0166)Lys;0.721,0.769,0.772,0.771,0.804,0.833,0.665,0.768,(2.6752)+(0.0005)Gly+(0.0044)Gln+(-0.1039)Cit+(-0.1879)Met+(0.0486)Orn+(-0.0111)Lys;0.721,0.768,0.724,0.760,0.723,0.714,0.635,0.708,(2.5898)+(-0.1050)Asn+(0.0051)Gly+(-0.0758)Cit+(0.0052)Pro+(-0.0604)Tyr+(0.0785)Phe;0.721,0.767,0.767,0.777,0.783,0.810,0.677,0.762,(4.1214)+(0.0256)Thr+(-0.0061)Ala+(-0.0774)Cit+(-0.0027)Arg+(-0.2359)Met+(0.0125)Leu;0.721,0.766,0.744,0.766,0.762,0.798,0.612,0.735,(4.5716)+(0.0220)Thr+(-0.0654)Cit+(0.0111)Pro+(-0.0138)Tyr+(-0.0078)Val+(-0.2443)Met;0.721,0.759,0.739,0.749,0.702,0.795,0.748,0.749,(1.2575)+(0.0002)Gly+(0.0031)Gln+(-0.0064)Thr+(-0.0333)Arg+(0.1633)Ile+(-0.0967)Leu;0.720,0.758,0.762,0.757,0.766,0.819,0.723,0.766,(1.8104)+(-0.0114)Ala+(-0.1136)Cit+(-0.0091)Arg+(0.0519)Orn+(-0.0117)Leu+(0.0503)Phe;0.720,0.757,0.759,0.768,0.754,0.827,0.700,0.762,(3.1443)+(-0.0001)Gly+(0.0019)Gln+(-0.0094)Ala+(-0.1190)Cit+(-0.0361)Tyr+(0.0557)Orn;0.720,0.766,0.761,0.772,0.741,0.767,0.774,0.763,(1.1849)+(-0.0472)Asn+(0.0052)Gln+(0.0025)Pro+(-0.0197)Tyr+(-0.2418)Met+(0.0467)Ile;0.720,0.765,0.710,0

.694,0.730,0.794,0.652,0.718,(3.6398)+(-0.1103)Cit+(-0.0016)Pro+(-0.0489)Tyr+(0.0516)Orn+(-0.0228)Lys+(0.0449)Ile;0.720,0.763,0.769,0.792,0.768,0.726,0.739,0.756,(1.9907)+(-0.0350)Asn+(-0.0042)Arg+(-0.0286)Tyr+(-0.2048)Met+(-0.0040)Lys+(0.0957)Phe;0.720,0.769,0.787,0.798,0.745,0.841,0.808,0.798,(1.3631)+(0.0440)Ser+(-0.1490)Asn+(-0.0066)Gly+(0.0030)Gln+(-0.0057)Ala+(-0.0008)Leu;0.720,0.763,0.771,0.793,0.736,0.826,0.747,0.776,(2.7689)+(0.0026)Gln+(-0.0067)Ala+(0.0140)Pro+(-0.0103)Val+(-0.2067)Met+(0.0253)Orn;0.720,0.762,0.630,0.661,0.604,0.706,0.549,0.630,(-2.3345)+(0.0325)Ser+(-0.0331)Arg+(0.0019)Pro+(-0.0803)Tyr+(0.0290)Ile+(0.0515)Phe;0.720,0.761,0.739,0.733,0.743,0.762,0.726,0.741,(2.1884)+(-0.0198)Asn+(0.0029)Gly+(-0.0087)Arg+(0.0025)Pro+(-0.2609)Met+(0.0502)Ile;0.720,0.770,0.690,0.659,0.748,0.823,0.554,0.696,(0.9073)+(0.0282)Ser+(-0.1169)Cit+(0.0007)Pro+(0.0504)Orn+(-0.0274)Lys+(0.0006)Leu;0.720,0.765,0.750,0.741,0.794,0.820,0.635,0.747,(3.8590)+(0.0020)Gly+(-0.1055)Cit+(0.0034)Arg+(-0.1703)Met+(0.0531)Orn+(-0.0103)Lys;0.720,0.765,0.712,0.689,0.755,0.784,0.633,0.715,(2.5785)+(-0.1233)Asn+(0.0055)Gly+(-0.1084)Cit+(-0.0030)Arg+(0.0377)Orn+(0.0230)Ile;0.720,0.764,0.695,0.670,0.682,0.764,0.738,0.713,(-0.3708)+(0.0486)Ser+(-0.1728)Asn+(-0.0049)Gly+(-0.0021)Pro+(0.0056)Orn+(0.0278)Ile;0.720,0.769,0.747,0.731,0.696,0.814,0.849,0.773,(1.4136)+(-0.0129)Ala+(0.0049)Pro+(0.0113)Orn+(-0.0228)Lys+(0.0466)Ile+(0.0208)Phe;0.720,0.762,0.790,0.792,0.772,0.816,0.801,0.795,(3.6394)+(-0.0889)Asn+(-0.0107)Ala+(-0.0744)Cit+(0.0114)Pro+(-0.0114)Leu+(0.0683)Phe;0.720,0.767,0.745,0.746,0.782,0.799,0.628,0.739,(2.1588)+(0.0033)Gln+(0.0144)Thr+(-0.0999)Cit+(0.0058)Pro+(-0.2906)Met+(0.0322)Orn;0.720,0.767,0.735,0.741,0.778,0.795,0.588,0.725,(3.6358)+(0.0004)Gly+(0.0164)Thr+(-0.1009)Cit+(-0.0195)Tyr+(-0.2257)Met+(0.0427)Orn;0.720,0.765,0.793,0.803,0.760,0.834,0.810,0.802,(5.1052)+(-0.0639)Asn+(0.0022)Gly+(-0.0026)Ala+(-0.0

379)Val+(-0.1426)Met+(0.0668)Leu;0.720,0.764,0.772,0.823,0.742,0.737,0.724,0.756,(1.4830)+(-0.1304)Asn+(0.0046)Gln+(-0.0657)Tyr+(0.0238)Orn+(-0.0222)Leu+(0.0870)Phe;0.720,0.760,0.788,0.814,0.791,0.835,0.680,0.780,(2.9215)+(0.0048)Gln+(0.0199)Thr+(-0.0045)Ala+(-0.0774)Cit+(-0.0020)Val+(-0.2278)Met;0.720,0.759,0.741,0.743,0.720,0.808,0.730,0.750,(-0.7631)+(0.0340)Ser+(-0.0033)Gly+(-0.0109)Ala+(-0.0773)Cit+(-0.0151)Arg+(0.0551)Phe;0.720,0.766,0.814,0.829,0.770,0.851,0.838,0.822,(2.5056)+(-0.0003)Gly+(0.0047)Gln+(-0.0032)Ala+(-0.0355)Val+(-0.2350)Met+(0.0632)Leu;0.720,0.763,0.742,0.766,0.703,0.775,0.736,0.745,(5.8016)+(-0.1513)Asn+(0.0209)Thr+(0.0082)Pro+(-0.0347)Tyr+(-0.0430)Val+(0.0583)Leu;0.720,0.761,0.769,0.801,0.733,0.779,0.751,0.766,(2.8859)+(-0.0848)Asn+(-0.0068)Ala+(-0.0130)Arg+(-0.0521)Tyr+(0.0272)Orn+(0.0707)Phe;0.720,0.756,0.750,0.739,0.742,0.835,0.731,0.762,(3.3923)+(-0.0095)Ala+(-0.1037)Cit+(-0.0075)Arg+(-0.0269)Val+(0.0591)Orn+(0.0366)Leu;0.720,0.766,0.792,0.793,0.740,0.834,0.869,0.809,(1.0201)+(-0.1285)Asn+(0.0036)Gln+(0.0042)Thr+(-0.0113)Ala+(0.0354)Ile+(0.0298)Phe;0.720,0.766,0.751,0.755,0.787,0.805,0.623,0.743,(2.2455)+(0.0003)Gly+(0.0033)Gln+(0.0144)Thr+(-0.1012)Cit+(-0.2695)Met+(0.0357)Orn;0.720,0.764,0.773,0.780,0.758,0.819,0.756,0.778,(3.9514)+(-0.0348)Asn+(-0.0079)Ala+(-0.0098)Arg+(0.0120)Pro+(-0.1587)Met+(0.0257)Orn;0.720,0.772,0.698,0.721,0.657,0.730,0.700,0.702,(-0.8143)+(0.0460)Ser+(-0.0104)Gly+(0.0011)Thr+(-0.0738)Tyr+(-0.0214)Lys+(0.0790)Phe;0.720,0.768,0.752,0.739,0.763,0.771,0.752,0.756,(3.4813)+(-0.0207)Asn+(-0.0698)Cit+(0.0059)Arg+(-0.0149)Tyr+(-0.2116)Met+(0.0548)Ile;0.720,0.765,0.813,0.834,0.796,0.807,0.800,0.809,(1.8345)+(-0.1478)Asn+(0.0076)Gln+(-0.0712)Cit+(-0.0159)Val+(-0.0037)Lys+(0.0783)Phe;0.720,0.764,0.758,0.804,0.719,0.718,0.748,0.747,(3.5805)+(-0.1185)Asn+(0.0089)Pro+(-0.0568)Tyr+(-0.0193)Val+(0.0029)Lys+(0.0963)Phe;0.720,0.764,0.770,0.799,0.749,0.817,0.702,0

.767,(2.3488)+(0.0039)Gln+(0.0179)Thr+(-0.0074)Ala+(-0.0183)Arg+(0.0125)Pro+(-0.2521)Met;0.720,0.764,0.802,0.850,0.753,0.778,0.794,0.794,(1.4345)+(-0.1193)Asn+(0.0056)Gln+(-0.0053)Ala+(-0.0532)Tyr+(-0.0131)Leu+(0.0897)Phe;0.720,0.759,0.705,0.708,0.700,0.733,0.689,0.707,(1.6346)+(0.0001)Gly+(0.0189)Thr+(0.0023)Pro+(-0.0229)Tyr+(-0.3176)Met+(0.0531)Ile;0.720,0.770,0.773,0.798,0.728,0.845,0.749,0.780,(1.0545)+(0.0366)Ser+(-0.1467)Asn+(0.0024)Gln+(-0.0016)Thr+(-0.0057)Ala+(0.0010)Leu;0.720,0.759,0.810,0.828,0.780,0.847,0.798,0.813,(4.0814)+(-0.1082)Asn+(0.0067)Gln+(-0.0082)Ala+(-0.0749)Cit+(0.0126)Pro+(-0.0083)Val;0.720,0.762,0.804,0.837,0.781,0.839,0.740,0.799,(3.9727)+(-0.1219)Asn+(0.0068)Gln+(0.0157)Thr+(-0.0060)Ala+(-0.0802)Cit+(-0.0287)Tyr;0.720,0.769,0.816,0.824,0.776,0.854,0.848,0.826,(2.3260)+(0.0046)Gln+(-0.0035)Ala+(0.0130)Tyr+(-0.0372)Val+(-0.2556)Met+(0.0659)Leu;0.720,0.767,0.678,0.691,0.584,0.794,0.752,0.705,(-0.9755)+(0.0245)Ser+(-0.0125)Ala+(0.0076)Pro+(-0.0523)Tyr+(-0.0010)Orn+(0.0493)Ile;0.720,0.764,0.777,0.790,0.774,0.770,0.754,0.772,(1.9765)+(-0.0055)Ala+(-0.0702)Cit+(0.0046)Arg+(-0.0188)Tyr+(-0.2057)Met+(0.1013)Phe;0.720,0.764,0.764,0.751,0.800,0.825,0.680,0.764,(4.9028)+(-0.0869)Asn+(-0.1088)Cit+(0.0037)Arg+(0.0580)Orn+(-0.0124)Lys+(-0.0069)Leu;0.720,0.761,0.646,0.662,0.586,0.679,0.708,0.659,(-2.0811)+(0.0395)Ser+(-0.0108)Gly+(0.0016)Pro+(-0.0962)Tyr+(0.0246)Ile+(0.0442)Phe;0.720,0.761,0.720,0.719,0.701,0.790,0.714,0.731,(2.3470)+(0.0002)Gly+(-0.0317)Arg+(0.0170)Orn+(-0.0064)Lys+(0.1547)Ile+(-0.0912)Leu;0.720,0.758,0.735,0.741,0.708,0.804,0.725,0.745,(-1.1329)+(0.0318)Ser+(-0.0106)Thr+(-0.0102)Ala+(-0.0881)Cit+(-0.0041)Leu+(0.0614)Phe;0.720,0.762,0.743,0.761,0.767,0.800,0.606,0.734,(4.2512)+(0.0012)Gly+(0.0208)Thr+(-0.0677)Cit+(0.0105)Pro+(-0.0081)Val+(-0.2625)Met;0.720,0.762,0.716,0.723,0.706,0.743,0.699,0.718,(0.6536)+(0.0027)Gln+(0.0168)Thr+(0.0019)Pro+(-0.0216)Tyr+(-0.3317)Met+(

0.0526)Ile;0.720,0.760,0.775,0.778,0.715,0.832,0.855,0.795,(1.7132)+(-0.1129)Asn+(0.0015)Gly+(0.0031)Gln+(-0.0118)Ala+(0.0059)Pro+(0.0394)Ile;0.720,0.757,0.744,0.734,0.728,0.816,0.749,0.757,(1.6817)+(-0.0108)Ala+(-0.1112)Cit+(-0.0259)Val+(0.0554)Orn+(0.0284)Leu+(0.0457)Phe;0.720,0.763,0.764,0.774,0.746,0.818,0.737,0.769,(3.3559)+(0.0007)Gly+(-0.0081)Ala+(-0.0124)Arg+(0.0127)Pro+(-0.1908)Met+(0.0245)Orn;0.720,0.762,0.696,0.724,0.674,0.760,0.625,0.696,(1.3550)+(0.0392)Ser+(-0.1431)Asn+(-0.0039)Thr+(0.0060)Pro
+(-0.0434)Tyr+(0.0201)Orn;0.720,0.761,0.734,0.739,0.704,0.798,0.739,0.745,(2.5094)+(0.0008)Gly+(-0.0286)Arg+(-0.0047)Pro+(-0.0045)Lys+(0.1658)Ile+(-0.0917)Leu;0.720,0.761,0.754,0.779,0.782,0.788,0.607,0.739,(4.9814)+(-0.0612)Asn+(0.0019)Gly+(0.0251)Thr+(-0.0705)Cit+(-0.0113)Tyr+(-0.1874)Met;0.720,0.758,0.761,0.795,0.713,0.762,0.772,0.760,(3.0714)+(-0.0810)Asn+(-0.0090)Ala+(-0.0091)Arg+(0.0110)Pro+(-0.0530)Tyr+(0.0728)Phe;0.720,0.765,0.758,0.791,0.749,0.789,0.666,0.749,(5.1589)+(-0.0722)Asn+(0.0218)Thr+(0.0109)Pro+(-0.0163)Tyr+(-0.0122)Val+(-0.1763)Met;0.720,0.764,0.757,0.784,0.741,0.789,0.699,0.753,(4.9987)+(-0.0711)Asn+(0.0102)Pro+(-0.0195)Tyr+(-0.0146)Val+(-0.1169)Met+(0.0360)Orn;0.720,0.761,0.668,0.696,0.658,0.718,0.582,0.663,(-1.2799)+(0.0335)Ser+(-0.0009)Gln+(-0.0080)Thr+(-0.0829)Cit+(-0.0718)Tyr+(0.0744)Phe;0.720,0.773,0.735,0.732,0.782,0.797,0.604,0.729,(3.4392)+(0.0179)Thr+(-0.0936)Cit+(-0.0072)Arg+(0.0059)Pro+(-0.2733)Met+(0.0365)Orn;0.720,0.764,0.759,0.796,0.725,0.763,0.727,0.753,(3.1462)+(-0.1100)Asn+(0.0223)Thr+(-0.0066)Ala+(-0.0604)Tyr+(-0.0105)Lys+(0.0880)Phe;0.720,0.762,0.809,0.837,0.783,0.846,0.763,0.807,(3.3388)+(-0.0876)Asn+(0.0051)Gln+(-0.0029)Ala+(-0.0111)Val+(-0.1174)Met+(0.0323)Orn;0.720,0.770,0.713,0.743,0.702,0.778,0.609,0.708,(2.0727)+(0.0405)Ser+(-0.1185)Asn+(-0.0137)Arg+(0.0081)Pro+(-0.0355)Tyr+(-0.0044)Lys;0.720,0.764,0.698,0.690,

0.647,0.761,0.779,0.719,(-0.3661)+(-0.0014)Gln+(-0.0077)Pro+(0.0005)O
rn+(0.1581)Ile+(-0.0986)Leu+(0.0364)Phe;0.720,0.762,0.661,0.664,0.645
,0.744,0.629,0.671,(-0.5733)+(0.0320)Ser+(-0.0112)Thr+(-0.0809)Cit+(0
.0017)Pro+(-0.0594)Tyr+(0.0433)Ile;0.720,0.760,0.783,0.821,0.731,0.78
4,0.789,0.781,(1.4396)+(-0.1199)Asn+(0.0045)Gln+(-0.0071)Ala+(-0.0555
)Tyr+(0.0188)Orn+(0.0707)Phe;0.720,0.762,0.743,0.755,0.759,0.813,0.62
9,0.739,(4.5399)+(-0.0009)Gly+(-0.1043)Cit+(-0.0394)Tyr+(-0.0081)Val+
(0.0639)Orn+(-0.0121)Lys;0.720,0.757,0.759,0.768,0.754,0.828,0.697,0.
762,(3.1681)+(0.0018)Gln+(-0.0093)Ala+(-0.1190)Cit+(-0.0358)Tyr+(0.05
60)Orn+(-0.0009)Leu;0.720,0.755,0.744,0.735,0.732,0.834,0.730,0.758,(
2.9026)+(0.0012)Gly+(-0.0102)Ala+(-0.1124)Cit+(-0.0262)Val+(0.0582)Or
n+(0.0364)Leu;0.720,0.770,0.739,0.732,0.744,0.803,0.698,0.744,(1.6686
)+(0.0492)Ser+(-0.1248)Asn+(-0.0067)Gly+(-0.0134)Arg+(0.0239)Orn+(-0.
0120)Lys;0.720,0.766,0.625,0.599,0.593,0.735,0.685,0.653,(-1.8730)+(0
.0256)Ser+(-0.0049)Gln+(-0.0064)Orn+(0.1477)Ile+(-0.0950)Leu+(0.0413)
Phe;0.720,0.764,0.762,0.749,0.800,0.822,0.677,0.762,(4.9018)+(-0.0866
)Asn+(-0.1049)Cit+(0.0019)Pro+(0.0568)Orn+(-0.0112)Lys+(-0.0087)Leu;0
.720,0.763,0.765,0.751,0.780,0.807,0.742,0.770,(1.7125)+(-0.1424)Asn+
(0.0058)Gln+(-0.1089)Cit+(-0.0042)Pro+(0.0342)Orn+(0.0232)Ile;0.720,0
.763,0.742,0.772,0.705,0.823,0.684,0.746,(-0.9357)+(0.0328)Ser+(-0.00
70)Ala+(-0.0228)Arg+(-0.0107)Val+(-0.0117)Lys+(0.0732)Phe;0.720,0.761
,0.752,0.746,0.785,0.812,0.654,0.749,(4.3786)+(-0.1005)Cit+(-0.0182)T
yr+(-0.1382)Met+(0.0554)Orn+(-0.0100)Lys+(0.0019)Leu;0.720,0.764,0.75
5,0.741,0.794,0.813,0.668,0.754,(4.0445)+(-0.1033)Cit+(0.0043)Arg+(-0
.1713)Met+(0.0529)Orn+(-0.0114)Lys+(0.0026)Leu;0.720,0.760,0.718,0.72
2,0.715,0.740,0.696,0.718,(2.3890)+(-0.0389)Asn+(0.0209)Thr+(-0.0248)
Tyr+(-0.2710)Met+(0.0023)Orn+(0.0513)Ile;0.720,0.768,0.771,0.764,0.72
2,0.820,0.857,0.791,(2.0688)+(-0.1104)Asn+(0.0049)Thr+(-0.0126)Ala+(0

.0060)Pro+(0.0324)Ile+(0.0293)Phe;0.720,0.757,0.758,0.767,0.753,0.827,0.697,0.761,(3.1458)+(0.0017)Gln+(0.0008)Thr+(-0.0095)Ala+(-0.1193)Cit+(-0.0364)Tyr+(0.0555)Orn;0.720,0.761,0.802,0.815,0.784,0.810,0.801,0.802,(3.8446)+(-0.1020)Asn+(-0.0060)Ala+(-0.0637)Cit+(0.0030)Arg+(-0.0122)Val+(0.0852)Phe;0.720,0.761,0.804,0.817,0.788,0.810,0.797,0.803,(3.9052)+(-0.0979)Asn+(-0.0059)Ala+(-0.0613)Cit+(-0.0120)Val+(-0.0007)Lys+(0.0854)Phe;0.720,0.758,0.760,0.779,0.751,0.796,0.704,0.758,(4.6432)+(-0.0687)Asn+(0.0004)Gly+(0.0096)Pro+(-0.0151)Val+(-0.1480)Met+(0.0338)Orn;0.720,0.765,0.748,0.754,0.782,0.778,0.639,0.738,(4.5010)+(-0.0499)Asn+(0.0243)Thr+(-0.0725)Cit+(0.0070)Pro+(-0.2431)Met+(0.0019)Leu;0.720,0.759,0.786,0.811,0.789,0.828,0.683,0.778,(2.7981)+(0.0000)Gly+(0.0048)Gln+(0.0199)Thr+(-0.0050)Ala+(-0.0799)Cit+(-0.2308)Met;0.720,0.763,0.776,0.776,0.725,0.842,0.836,0.795,(3.0966)+(-0.0652)Asn+(0.0025)Gly+(-0.0097)Ala+(-0.0067)Arg+(-0.0114)Lys+(0.0550)Ile;0.720,0.767,0.682,0.696,0.709,0.785,0.516,0.677,(1.7174)+(0.0221)Ser+(-0.0017)Gln+(-0.1077)Cit+(-0.0546)Tyr+(0.0468)Orn+(-0.0064)Leu;0.720,0.763,0.754,0.740,0.703,0.821,0.851,0.779,(1.3587)+(0.0002)Gly+(-0.0118)Ala+(0.0129)Orn+(-0.0229)Lys+(0.0502)Ile+(0.0213)Phe;0.720,0.762,0.754,0.763,0.743,0.775,0.740,0.755,(0.8604)+(0.0047)Gln+(-0.0156)Arg+(-0.0152)Tyr+(-0.2681)Met+(0.0068)Orn+(0.0509)Ile;0.720,0.758,0.762,0.792,0.713,0.767,0.783,0.764,(3.1966)+(-0.0820)Asn+(-0.0088)Ala+(0.0110)Pro+(-0.0516)Tyr+(-0.0061)Lys+(0.0745)Phe;0.720,0.769,0.704,0.691,0.697,0.766,0.710,0.716,(0.0056)+(0.0497)Ser+(-0.1494)Asn+(-0.0045)Gly+(-0.0186)Arg+(-0.0007)Pro+(0.0311)Ile;0.720,0.767,0.738,0.776,0.736,0.729,0.645,0.721,(2.6218)+(-0.1049)Asn+(0.0050)Gly+(-0.0767)Cit+(0.0022)Arg+(-0.0554)Tyr+(0.0820)Phe;0.720,0.766,0.702,0.690,0.694,0.735,0.728,0.712,(-0.9457)+(0.0502)Ser+(-0.1910)Asn+(-0.0048)Gly+(-0.0000)Pro+(0.0063)Orn+(0.0429)Phe;0.720,0.766,0.700,0.676,0.624,0.807,0.847,0

.739,(-1.5267)+(0.0442)Ser+(-0.0050)Gly+(-0.0022)Gln+(-0.0182)Thr+(-0.0124)Ala+(0.0560)Ile;0.720,0.766,0.712,0.741,0.645,0.760,0.743,0.722,(-0.7329)+(0.0393)Ser+(-0.0085)Gly+(-0.0019)Gln+(-0.0075)Ala+(-0.0680)Tyr+(0.0712)Phe;0.720,0.764,0.694,0.681,0.674,0.763,0.720,0.709,(-1.2493)+(0.0454)Ser+(-0.1660)Asn+(0.0016)Gln+(-0.0102)Thr+(-0.0012)Pro+(0.0340)Ile;0.720,0.762,0.650,0.666,0.589,0.683,0.710,0.662,(-2.0842)+(0.0393)Ser+(-0.0107)Gly+(-0.0949)Tyr+(0.0012)Orn+(0.0260)Ile+(0.0439)Phe;0.719,0.767,0.765,0.777,0.727,0.820,0.771,0.774,(5.4769)+(-0.1238)Asn+(-0.0245)Tyr+(-0.0423)Val+(0.0444)Orn+(-0.0025)Lys+(0.0568)Leu;0.719,0.765,0.720,0.733,0.689,0.813,0.684,0.730,(-1.2278)+(0.0307)Ser+(-0.0023)Gln+(-0.0107)Ala+(-0.0292)Arg+(0.0142)Orn+(0.0461)Phe;0.719,0.764,0.689,0.680,0.690,0.775,0.650,0.699,(-0.3261)+(0.0436)Ser+(-0.1544)Asn+(-0.0202)Arg+(-0.0010)Pro+(0.0080)Orn+(0.0314)Ile;0.719,0.759,0.725,0.720,0.676,0.779,0.798,0.743,(1.1487)+(-0.0002)Gly+(-0.0158)Thr+(-0.0056)Pro+(0.0126)Orn+(0.1614)Ile+(-0.0941)Leu;0.719,0.759,0.780,0.798,0.758,0.838,0.738,0.783,(5.4779)+(-0.0813)Asn+(0.0042)Gly+(-0.0087)Ala+(-0.0717)Cit+(0.0144)Pro+(-0.0070)Val;0.719,0.758,0.768,0.775,0.747,0.816,0.758,0.774,(3.6221)+(-0.0441)Asn+(0.0011)Gly+(-0.0079)Ala+(0.0121)Pro+(-0.1658)Met+(0.0224)Orn;0.719,0.769,0.727,0.716,0.687,0.787,0.796,0.746,(1.9051)+(-0.0016)Gly+(-0.0066)Pro+(0.0128)Orn+(-0.0157)Lys+(0.1513)Ile+(-0.0820)Leu;0.719,0.766,0.789,0.785,0.773,0.822,0.806,0.797,(3.7462)+(-0.0754)Asn+(-0.0110)Ala+(-0.0757)Cit+(0.0107)Pro+(-0.0073)Lys+(0.0619)Phe;0.719,0.759,0.724,0.752,0.673,0.808,0.698,0.733,(-1.0289)+(0.0294)Ser+(-0.0104)Ala+(-0.0301)Arg+(0.0113)Pro+(-0.0149)Val+(0.0628)Phe;0.719,0.762,0.637,0.637,0.632,0.731,0.579,0.644,(0.0248)+(0.0292)Ser+(-0.0019)Gln+(-0.0819)Cit+(0.0014)Pro+(-0.0659)Tyr+(0.0434)Ile;0.719,0.759,0.754,0.775,0.787,0.791,0.603,0.739,(4.7366)+(-0.0584)Asn+(0.0022)Gly+(0.0247)Thr+(-0.0709)Cit+(-0.001

9)Arg+(-0.2061)Met;0.719,0.763,0.756,0.778,0.739,0.758,0.734,0.752,(2.8919)+(-0.1513)Asn+(0.0021)Gly+(0.0052)Pro+(-0.0244)Val+(0.0306)Orn+(0.0706)Phe;0.719,0.762,0.762,0.772,0.748,0.811,0.731,0.766,(3.6944)+(-0.0524)Asn+(0.0147)Thr+(-0.0078)Ala+(0.0114)Pro+(-0.1999)Met+(0.0165)Orn;0.719,0.760,0.772,0.798,0.791,0.807,0.639,0.759,(5.7478)+(-0.0661)Asn+(0.0262)Thr+(-0.0612)Cit+(-0.0088)Tyr+(-0.0061)Val+(-0.1657)Met;0.719,0.765,0.717,0.706,0.678,0.778,0.785,0.737,(1.6080)+(-0.0019)Gly+(0.0004)Gln+(0.0091)Orn+(-0.0161)Lys+(0.1403)Ile+(-0.0804)Leu;0.719,0.765,0.755,0.765,0.741,0.768,0.747,0.755,(0.9017)+(0.0049)Gln+(-0.0147)Arg+(0.0027)Pro+(-0.0157)Tyr+(-0.2743)Met+(0.0503)Ile;0.719,0.750,0.759,0.757,0.762,0.832,0.704,0.764,(3.2796)+(0.0012)Gly+(-0.0023)Thr+(-0.0095)Ala+(-0.1173)Cit+(-0.0075)Val+(0.0594)Orn;0.719,0.776,0.755,0.785,0.747,0.841,0.634,0.752,(0.2919)+(0.0340)Ser+(0.0014)Gln+(0.0077)Tyr+(-0.0038)Val+(-0.2489)Met+(-0.0018)Lys;0.719,0.760,0.755,0.775,0.788,0.794,0.606,0.741,(4.8560)+(-0.0577)Asn+(0.0022)Gly+(0.0249)Thr+(-0.0719)Cit+(-0.1994)Met+(-0.0024)Lys;0.719,0.769,0.718,0.749,0.644,0.770,0.750,0.728,(-1.1557)+(0.0358)Ser+(-0.0093)Gly+(-0.0080)Ala+(-0.0715)Tyr+(0.0121)Orn+(0.0650)Phe;0.719,0.762,0.676,0.714,0.667,0.719,0.561,0.665,(-0.9112)+(0.0294)Ser+(-0.0010)Gln+(-0.0826)Cit+(-0.0742)Tyr+(-0.0140)Leu+(0.0902)Phe;0.719,0.760,0.638,0.633,0.596,0.710,0.685,0.656,(-0.2231)+(0.0409)Ser+(-0.0094)Gly+(-0.0033)Gln+(-0.0766)Tyr+(0.0075)Orn+(0.0368)Ile;0.719,0.768,0.801,0.812,0.787,0.828,0.784,0.803,(2.7178)+(0.0062)Gln+(-0.0578)Cit+(-0.0312)Val+(-0.2377)Met+(-0.0024)Lys+(0.0564)Leu;0.719,0.762,0.709,0.715,0.716,0.743,0.655,0.707,(2.2459)+(0.0240)Thr+(-0.0183)Arg+(-0.0225)Tyr+(-0.2986)Met+(0.0031)Orn+(0.0546)Ile;0.719,0.757,0.744,0.734,0.751,0.820,0.706,0.752,(1.1676)+(0.0030)Gly+(-0.0128)Ala+(-0.1210)Cit+(-0.0083)Arg+(0.0491)Orn+(0.0414)Phe;0.719,0.772,0.755,0.799,0.734,0.809,0.644,0.746,(1.4169)+

(0.0365)Ser+(-0.1318)Asn+(0.0037)Gln+(-0.0138)Arg+(-0.0270)Tyr+(-0.0039)Lys;0.719,0.768,0.671,0.704,0.657,0.755,0.552,0.667,(-1.2202)+(0.0335)Ser+(-0.0231)Arg+(-0.0658)Tyr+(0.0205)Orn+(-0.0191)Lys+(0.0750)Phe;0.719,0.767,0.744,0.738,0.738,0.768,0.756,0.750,(2.9501)+(-0.0044)Arg+(0.0029)Pro+(-0.0148)Tyr+(-0.2309)Met+(-0.0083)Lys+(0.0552)Ile;0.719,0.766,0.741,0.741,0.789,0.802,0.599,0.733,(3.5311)+(0.0179)Thr+(-0.0950)Cit+(-0.0067)Arg+(-0.2535)Met+(0.0395)Orn+(0.0005)Leu;0.719,0.763,0.759,0.772,0.712,0.805,0.793,0.770,(3.5936)+(-0.0680)Asn+(-0.0086)Ala+(-0.0122)Arg+(-0.0383)Tyr+(0.0206)Orn+(0.0457)Ile;0.719,0.761,0.706,0.734,0.700,0.742,0.620,0.699,(1.5532)+(-0.0992)Cit+(0.0048)Pro+(-0.0758)Tyr+(-0.0173)Val+(0.0516)Orn+(0.0795)Phe;0.719,0.759,0.752,0.759,0.774,0.728,0.703,0.741,(1.3765)+(-0.0629)Cit+(0.0009)Arg+(0.0082)Pro+(-0.2893)Met+(-0.0104)Leu+(0.0983)Phe;0.719,0.766,0.766,0.777,0.780,0.808,0.678,0.761,(4.1181)+(0.0253)Thr+(-0.0060)Ala+(-0.0789)Cit+(-0.0050)Tyr+(-0.2312)Met+(0.0129)Leu;0.719,0.765,0.766,0.793,0.742,0.825,0.703,0.766,(3.9551)+(-0.0008)Gly+(0.0173)Thr+(-0.0066)Ala+(0.0147)Pro+(-0.0088)Val+(-0.2315)
Met;0.719,0.756,0.732,0.734,0.676,0.782,0.812,0.751,(0.8720)+(-0.0003)Gly+(0.0012)Gln+(-0.0150)Thr+(-0.0053)Pro+(0.1632)Ile+(-0.0936)Leu;0.719,0.763,0.773,0.785,0.785,0.771,0.718,0.764,(3.9742)+(-0.1445)Asn+(0.0196)Thr+(-0.0624)Cit+(-0.0178)Val+(-0.0060)Lys+(0.0853)Phe;0.719,0.762,0.819,0.836,0.774,0.852,0.846,0.827,(3.8848)+(-0.1333)Asn+(0.0078)Gln+(-0.0051)Ala+(-0.0621)Cit+(-0.0315)Val+(0.0510)Leu;0.719,0.765,0.757,0.790,0.708,0.730,0.790,0.754,(4.0203)+(-0.1263)Asn+(0.0078)Pro+(-0.0497)Tyr+(-0.0354)Val+(0.0365)Leu+(0.0850)Phe;0.719,0.757,0.739,0.738,0.711,0.802,0.754,0.752,(-1.0094)+(0.0358)Ser+(-0.0029)Gly+(-0.0108)Thr+(-0.0105)Ala+(-0.0853)Cit+(0.0550)Phe;0.719,0.760,0.721,0.713,0.691,0.807,0.746,0.739,(-0.8053)+(0.0304)Ser+(-0.0026)Gly+(-0.014

5)Ala+(-0.0944)Cit+(0.0106)Pro+(0.0422)Phe;0.719,0.766,0.705,0.701,0.694,0.776,0.684,0.714,(-0.9719)+(0.0447)Ser+(-0.1547)Asn+(0.0024)Gln+(-0.0066)Thr+(-0.0189)Arg+(0.0335)Ile;0.719,0.759,0.713,0.712,0.657,0.757,0.800,0.732,(-0.1981)+(0.0004)Gly+(0.0003)Gln+(-0.0173)Thr+(0.1564)Ile+(-0.0996)Leu+(0.0363)Phe;0.719,0.769,0.755,0.777,0.736,0.794,0.711,0.754,(2.6143)+(0.0487)Ser+(-0.1160)Asn+(-0.0074)Gly+(-0.0120)Arg+(-0.0330)Tyr+(-0.0008)Leu;0.719,0.765,0.707,0.682,0.756,0.762,0.631,0.708,(1.7030)+(-0.1373)Asn+(0.0063)Gly+(-0.1114)Cit+(0.0355)Orn+(0.0171)Ile+(0.0280)Phe;0.719,0.762,0.760,0.770,0.740,0.770,0.767,0.762,(1.0450)+(-0.0484)Asn+(0.0009)Gly+(0.0052)Gln+(-0.0171)Tyr+(-0.2410)Met+(0.0499)Ile;0.719,0.761,0.806,0.832,0.789,0.830,0.752,0.801,(2.6038)+(-0.0790)Asn+(-0.0011)Gly+(0.0055)Gln+(0.0194)Thr+(-0.0041)Ala+(-0.1978)Met;0.719,0.759,0.727,0.733,0.700,0.795,0.719,0.737,(1.3399)+(-0.0005)Gly+(0.0022)Gln+(-0.0381)Arg+(0.0116)Orn+(0.1591)Ile+(-0.0974)Leu;0.719,0.767,0.728,0.733,0.726,0.777,0.680,0.729,(3.9957)+(-0.0688)Asn+(0.0048)Gly+(-0.0769)Cit+(-0.0363)Tyr+(-0.0115)Lys+(0.0508)Ile;0.719,0.764,0.675,0.719,0.634,0.732,0.602,0.672,(-1.0252)+(0.0297)Ser+(0.0072)Pro+(-0.0677)Tyr+(-0.0127)Val+(-0.0171)Lys+(0.0878)Phe;0.719,0.762,0.733,0.728,0.687,0.789,0.799,0.751,(1.9992)+(0.0000)Gly+(-0.0086)Thr+(-0.0050)Pro+(-0.0104)Lys+(0.1581)Ile+(-0.0850)Leu;0.719,0.759,0.712,0.709,0.658,0.757,0.802,0.731,(-0.1286)+(0.0001)Gln+(-0.0179)Thr+(0.0062)Orn+(0.1546)Ile+(-0.0994)Leu+(0.0345)Phe;0.719,0.766,0.814,0.828,0.771,0.853,0.837,0.822,(2.5369)+(0.0048)Gln+(-0.0032)Ala+(-0.0349)Val+(-0.2304)Met+(-0.0021)Lys+(0.0634)Leu;0.719,0.768,0.755,0.772,0.745,0.820,0.687,0.756,(3.3759)+(0.0161)Thr+(-0.0079)Ala+(-0.0171)Arg+(0.0123)Pro+(-0.2322)Met+(0.0186)Orn;0.719,0.764,0.742,0.747,0.700,0.827,0.758,0.758,(1.0689)+(0.0407)Ser+(-0.0073)Gly+(-0.0098)Ala+(-0.0178)Arg+(0.0116)Pro+(-0.0138)Lys;0.719,0.767,0.685,0.664,0.606,0.8

04,0.820,0.723,(-2.2553)+(0.0399)Ser+(-0.0033)Gln+(-0.0197)Thr+(-0.0130)Ala+(0.0538)Ile+(0.0214)Phe;0.719,0.757,0.755,0.748,0.746,0.838,0.734,0.767,(3.5080)+(-0.0035)Thr+(-0.0121)Ala+(-0.1149)Cit+(0.0115)Pro+(-0.0094)Val+(0.0560)Orn;0.719,0.767,0.745,0.731,0.757,0.766,0.741,0.749,(3.1355)+(-0.0694)Cit+(0.0041)Arg+(0.0031)Pro+(-0.0158)Tyr+(-0.2391)Met+(0.0532)Ile;0.719,0.766,0.744,0.759,0.679,0.803,0.796,0.759,(3.5973)+(-0.0921)Asn+(0.0108)Thr+(-0.0106)Ala+(0.0080)Pro+(-0.0456)Tyr+(0.0437)Ile;0.719,0.768,0.754,0.760,0.754,0.810,0.696,0.755,(1.9802)+(0.0464)Ser+(-0.1391)Asn+(-0.0064)Gly+(-0.0183)Arg+(0.0229)Orn+(-0.0108)Leu;0.719,0.762,0.785,0.799,0.758,0.824,0.778,0.790,(2.4831)+(-0.0589)Asn+(0.0044)Gln+(-0.0076)Ala+(0.0112)Pro+(-0.1775)Met+(0.0184)Orn;0.719,0.764,0.792,0.803,0.766,0.827,0.792,0.797,(4.1307)+(-0.1823)Asn+(0.0066)Gln+(0.0174)Thr+(-0.0584)Cit+(-0.0404)Val+(0.0562)Leu;0.719,0.764,0.813,0.837,0.796,0.803,0.792,0.807,(1.8022)+(-0.1503)Asn+(0.0078)Gln+(-0.0665)Cit+(-0.0057)Arg+(-0.0171)Val+(0.0782)Phe;0.719,0.762,0.757,0.745,0.792,0.806,0.683,0.756,(4.1903)+(-0.0481)Asn+(-0.0954)Cit+(0.0015)Arg+(0.0050)Pro+(-0.1763)Met+(0.0450)Orn;0.719,0.761,0.767,0.782,0.752,0.810,0.726,0.767,(4.1356)+(-0.0480)Asn+(0.0188)Thr+(-0.0074)Ala+(0.0123)Pro+(-0.1975)Met+(-0.0026)Lys;0.719,0.756,0.743,0.729,0.745,0.834,0.709,0.754,(2.6037)+(0.0026)Gly+(-0.0141)Ala+(-0.1215)Cit+(-0.0071)Arg+(0.0102)Pro+(0.0497)Orn;0.719,0.764,0.760,0.754,0.797,0.784,0.686,0.755,(3.0902)+(-0.1201)Asn+(-0.1013)Cit+(0.0010)Pro+(0.0485)Orn+(-0.0236)Leu+(0.0571)Phe;0.719,0.759,0.750,0.797,0.730,0.717,0.692,0.734,(2.6772)+(-0.1088)Asn+(0.0003)Gly+(-0.0636)Tyr+(0.0286)Orn+(-0.0220)Leu+(0.0872)Phe;0.719,0.768,0.727,0.780,0.649,0.792,0.705,0.731,(-1.2338)+(0.0262)Ser+(-0.0052)Thr+(-0.0062)Ala+(-0.0548)Tyr+(-0.0115)Val+(0.0864)Phe;0.719,0.767,0.679,0.699,0.696,0.782,0.517,0.674,(1.2195)+(0.0200)Ser+(-0.1076)Cit+(0.0053)Pro+(-0.0614)Tyr+(0.

0426)Orn+(-0.0092)Leu;0.719,0.762,0.771,0.769,0.721,0.827,0.839,0.789,(1.6058)+(-0.1097)Asn+(0.0027)Gly+(-0.0112)Ala+(0.0076)Orn+(0.0370)Ile+(0.0309)Phe;0.719,0.760,0.783,0.785,0.774,0.836,0.753,0.787,(5.5521)+(-0.0844)Asn+(0.0151)Thr+(-0.0104)Ala+(-0.0787)Cit+(0.0118)Pro+(-0.0063)Lys;0.719,0.763,0.756,0.742,0.706,0.821,0.853,0.780,(1.4095)+(-0.0009)Thr+(-0.0117)Ala+(0.0134)Orn+(-0.0226)Lys+(0.0501)Ile+(0.0212)Phe;0.719,0.764,0.748,0.734,0.704,0.819,0.822,0.770,(2.3092)+(-0.0121)Ala+(-0.0143)Arg+(0.0055)Pro+(0.0162)Orn+(-0.0179)Lys+(0.0481)Ile;0.719,0.763,0.777,0.787,0.764,0.835,0.735,0.780,(4.9325)+(-0.0740)Asn+(0.0047)Gly+(-0.0100)Ala+(-0.0806)Cit+(0.0133)Pro+(-0.0026)Lys;0.719,0.753,0.764,0.763,0.770,0.835,0.702,0.768,(3.6841)+(0.0005)Thr+(-0.0091)Ala+(-0.1092)Cit+(-0.0080)Arg+(-0.0083)Val+(0.0592)Orn;0.719,0.762,0.727,0.732,0.678,0.799,0.766,0.744,(-1.3195)+(0.0366)Ser+(-0.0058)Gly+(-0.0128)Ala+(-0.0291)Arg+(0.0094)Pro+(0.0383)Phe;0.719,0.766,0.680,0.690,0.650,0.746,0.672,0.689,(-0.2294)+(0.0409)Ser+(-0.0092)Gly+(-0.0281)Arg+(-0.0700)Tyr+(0.0111)Orn+(0.0358)Ile;0.719,0.770,0.662,0.611,0.681,0.775,0.672,0.685,(-1.3996)+(0.0427)Ser+(-0.0037)Gly+(-0.0903)Cit+(-0.0343)Lys+(0.0454)Ile+(0.0369)Phe;0.719,0.762,0.709,0.714,0.714,0.742,0.657,0.707,(2.1868)+(0.0005)Gly+(0.0242)Thr+(-0.0181)Arg+(-0.0213)Tyr+(-0.3021)Met+(0.0559)Ile;0.719,0.769,0.729,0.717,0.749,0.769,0.688,0.731,(2.3750)+(0.0049)Gly+(-0.0795)Cit+(0.0042)Arg+(-0.0086)Tyr+(-0.2560)Met+(0.0603)Ile;0.719,0.766,0.735,0.741,0.776,0.792,0.594,0.726,(3.6429)+(0.0170)Thr+(-0.1004)Cit+(-0.0202)Tyr+(-0.2287)Met+(0.0420)Orn+(0.0014)Leu;0.719,0.760,0.767,0.760,0.801,0.812,0.681,0.763,(4.5834)+(-0.0551)Asn+(-0.0978)Cit+(0.0014)Arg+(-0.1396)Met+(0.0506)Orn+(-0.0047)Leu;0.719,0.760,0.717,0.747,0.712,0.744,0.625,0.707,(1.3589)+(0.0005)Gln+(-0.1011)Cit+(-0.0724)Tyr+(-0.0165)Val+(0.0530)Orn+(0.0817)Phe;0.719,0.760,0.792,0.833,0.737,0.782,0.806,0.789,(1.2908)

+(-0.1188)Asn+(0.0002)Gly+(0.0053)Gln+(-0.0066)Ala+(-0.0530)Tyr+(0.07
61)Phe;0.719,0.768,0.779,0.810,0.736,0.759,0.798,0.776,(4.0152)+(-0.1
191)Asn+(-0.0038)Arg+(-0.0435)Tyr+(-0.0347)Val+(0.0394)Leu+(0.0886)Ph
e;0.719,0.758,0.754,0.778,0.712,0.808,0.742,0.760,(-0.6537)+(0.0370)S
er+(-0.0063)Gly+(-0.0075)Ala+(-0.0280)Arg+(-0.0135)Val+(0.0657)Phe;0.
719,0.766,0.721,0.734,0.714,0.753,0.677,0.720,(3.6141)+(-0.0884)Asn+(
0.0045)Gly+(-0.0770)Cit+(0.0016)Pro+(-0.0445)Tyr+(0.0414)Ile;0.719,0.
764,0.758,0.747,0.716,0.824,0.828,0.779,(1.6848)+(-0.0113)Ala+(-0.014
5)Arg+(0.0166)Orn+(-0.0195)Lys+(0.0481)Ile+(0.0236)Phe;0.719,0.766,0.
737,0.744,0.782,0.796,0.583,0.726,(3.8768)+(0.0183)Thr+(-0.0957)Cit+(
-0.0070)Arg+(-0.0202)Tyr+(-0.2201)Met+(0.0428)Orn;0.719,0.758,0.733,0
.740,0.701,0.791,0.736,0.742,(2.2945)+(0.0011)Gly+(-0.0031)Thr+(-0.02
96)Arg+(-0.0045)Pro+(0.1687)Ile+(-0.0954)Leu;0.719,0.764,0.748,0.762,
0.761,0.828,0.625,0.744,(3.6162)+(0.0024)Gln+(-0.1082)Cit+(-0.0407)Ty
r+(-0.0075)Val+(0.0612)Orn+(-0.0142)Lys;0.719,0.757,0.773,0.797,0.795
,0.809,0.640,0.760,(5.6538)+(-0.0632)Asn+(0.0264)Thr+(-0.0596)Cit+(-0
.0029)Arg+(-0.0066)Val+(-0.1785)Met;0.719,0.767,0.704,0.705,0.691,0.7
44,0.703,0.711,(-1.7856)+(0.0468)Ser+(-0.1863)Asn+(0.0013)Gln+(-0.010
1)Thr+(0.0088)Orn+(0.0477)Phe;0.719,0.763,0.754,0.784,0.743,0.723,0.7
18,0.742,(-1.0122)+(0.0003)Gly+(0.0039)Gln+(-0.0287)Tyr+(-0.3002)Met+
(0.0101)Orn+(0.0929)Phe;0.719,0.761,0.760,0.790,0.763,0.730,0.692,0.7
44,(0.9212)+(0.0021)Gly+(-0.0100)Arg+(-0.0244)Tyr+(-0.2461)Met+(-0.00
90)Leu+(0.1064)Phe;0.719,0.758,0.745,0.739,0.731,0.819,0.738,0.757,(1
.8048)+(-0.0129)Ala+(-0.1154)Cit+(0.0096)Pro+(-0.0131)Val+(0.0515)Orn
+(0.0487)Phe;0.719,0.766,0.751,0.759,0.785,0.785,0.633,0.740,(4.7891)
+(-0.0486)Asn+(0.0247)Thr+(-0.0714)Cit+(0.0073)Pro+(-0.2289)Met+(-0.0
032)Lys;0.719,0.759,0.778,0.801,0.705,0.824,0.840,0.792,(2.2215)+(-0.
0975)Asn+(0.0003)Gly+(0.0043)Gln+(-0.0087)Ala+(-0.0379)Tyr+(0.0488)Il

e;0.718,0.767,0.794,0.797,0.764,0.811,0.838,0.802,(4.1941)+(-0.1147)Asn+(-0.0058)Ala+(-0.0517)Cit+(-0.0320)Val+(0.0416)Leu+(0.0761)Phe;0.718,0.767,0.767,0.800,0.762,0.814,0.659,0.759,(4.9325)+(-0.0853)Asn+(0.0175)Thr+(-0.0154)Tyr+(-0.0125)Val+(-0.1344)Met+(0.0317)Orn;0.718,0.763,0.768,0.787,0.758,0.815,0.703,0.766,(4.2566)+(-0.0415)Asn+(0.0212)Thr+(-0.0073)Ala+(-0.0123)Arg+(0.0124)Pro+(-0.2021)Met;0.718,0.760,0.782,0.808,0.770,0.763,0.751,0.773,(1.4806)+(-0.0041)Ala+(-0.0084)Arg+(-0.0219)Tyr+(-0.2141)Met+(-0.0059)Leu+(0.1032)Phe;0.718,0.762,0.753,0.748,0.786,0.813,0.653,0.750,(4.3630)+(-0.1037)Cit+(0.0037)Arg+(-0.0183)Tyr+(-0.1373)Met+(0.0562)Orn+(-0.0103)Lys;0.718,0.762,0.731,0.756,0.661,0.772,0.779,0.742,(1.3967)+(-0.0120)Ala+(-0.0202)Arg+(0.0086)Pro+(-0.0570)Tyr+(0.0381)Ile+(0.0463)Phe;0.718,0.760,0.738,0.743,0.707,0.798,0.749,0.749,(2.6559)+(-0.0012)Thr+(-0.0274)Arg+(-0.0046)Pro+(-0.0041)Lys+(0.1655)Ile+(-0.0918)Leu;0.718,0.757,0.720,0.712,0.703,0.825,0.702,0.736,(1.1571)+(0.0274)Ser+(-0.0012)Gln+(-0.0131)Ala+(-0.0913)Cit+(0.0133)Pro+(0.0008)Leu;0.718,0.763,0.732,0.727,0.738,0.762,0.714,0.735,(1.8307)+(0.0022)Gly+(-0.0116)Arg+(0.0023)Pro+(-0.2803)Met+(0.0084)Orn+(0.0489)Ile;0.718,0.757,0.780,0.800,0.788,0.740,0.744,0.768,(1.7596)+(-0.0354)Asn+(-0.0062)Arg+(-0.2356)Met+(-0.0016)Lys+(-0.0095)Leu+(0.0955)Phe;0.718,0.766,0.751,0.755,0.788,0.802,0.629,0.743,(2.2070)+(0.0034)Gln+(0.0148)Thr+(-0.1009)Cit+(-0.2736)Met+(0.0350)Orn+(0.0013)Leu;0.718,0.762,0.730,0.741,0.743,0.815,0.613,0.728,(4.3312)+(-0.1031)Cit+(0.0058)Pro+(-0.0449)Tyr+(-0.0095)Val+(0.0613)Orn+(-0.0122)Lys;0.718,0.764,0.744,0.742,0.737,0.850,0.689,0.755,(1.6044)+(0.0316)Ser+(-0.0003)Thr+(-0.0084)Ala+(-0.0844)Cit+(-0.0164)Lys+(0.0143)Leu;0.718,0.763,0.772,0.771,0.
720,0.828,0.842,0.790,(1.6178)+(-0.1156)Asn+(0.0026)Gly+(0.0047)Thr+(-0.0113)Ala+(0.0382)Ile+(0.0329)Phe;0.718,0.762,0.805,0.833,0.770,0.8

29,0.788,0.805,(3.4539)+(-0.0690)Asn+(0.0057)Gln+(-0.0056)Ala+(0.0138)Pro+(-0.0098)Val+(-0.1456)Met;0.718,0.769,0.799,0.811,0.786,0.821,0.783,0.800,(2.6594)+(0.0060)Gln+(-0.0575)Cit+(-0.0002)Arg+(-0.0319)Val+(-0.2437)Met+(0.0564)Leu;0.718,0.766,0.720,0.733,0.661,0.805,0.749,0.737,(-1.9019)+(0.0351)Ser+(-0.0134)Thr+(-0.0123)Ala+(-0.0247)Arg+(0.0109)Pro+(0.0441)Phe;0.718,0.763,0.761,0.782,0.752,0.760,0.725,0.755,(2.8575)+(-0.1667)Asn+(0.0015)Gly+(0.0109)Thr+(-0.0244)Val+(0.0286)Orn+(0.0769)Phe;0.718,0.764,0.708,0.739,0.717,0.681,0.627,0.691,(-0.2621)+(0.0001)Gly+(0.0249)Thr+(-0.0364)Tyr+(-0.3502)Met+(0.0042)Orn+(0.1045)Phe;0.718,0.758,0.711,0.707,0.658,0.756,0.800,0.730,(-0.1305)+(0.0003)Gly+(-0.0179)Thr+(0.0061)Orn+(0.1548)Ile+(-0.0995)Leu+(0.0349)Phe;0.718,0.764,0.788,0.795,0.779,0.822,0.767,0.791,(5.5182)+(-0.0295)Asn+(-0.0083)Ala+(-0.0662)Cit+(0.0151)Pro+(-0.0089)Tyr+(-0.1136)Met;0.718,0.761,0.719,0.724,0.683,0.806,0.718,0.733,(-0.6855)+(0.0267)Ser+(-0.0128)Ala+(-0.0878)Cit+(0.0117)Pro+(-0.0094)Val+(0.0565)Phe;0.718,0.752,0.739,0.725,0.737,0.831,0.714,0.752,(2.3885)+(0.0024)Gly+(-0.0001)Gln+(-0.0145)Ala+(-0.1273)Cit+(0.0101)Pro+(0.0490)Orn;0.718,0.767,0.708,0.690,0.684,0.762,0.769,0.726,(-1.0676)+(0.0513)Ser+(-0.1651)Asn+(-0.0050)Gly+(0.0021)Gln+(-0.0103)Thr+(0.0293)Ile;0.718,0.765,0.728,0.735,0.706,0.776,0.717,0.734,(0.8212)+(0.0047)Gln+(-0.0895)Cit+(-0.0678)Tyr+(-0.0240)Lys+(0.0450)Ile+(0.0608)Phe;0.718,0.764,0.733,0.753,0.664,0.791,0.786,0.748,(1.6641)+(0.0098)Thr+(-0.0099)Ala+(-0.0559)Tyr+(-0.0211)Lys+(0.0518)Ile+(0.0512)Phe;0.718,0.768,0.774,0.773,0.804,0.832,0.673,0.771,(2.7021)+(0.0046)Gln+(-0.1026)Cit+(-0.0008)Arg+(-0.1876)Met+(0.0485)Orn+(-0.0111)Lys;0.718,0.763,0.744,0.741,0.737,0.851,0.691,0.755,(1.6014)+(0.0313)Ser+(-0.0085)Ala+(-0.0857)Cit+(0.0012)Arg+(-0.0169)Lys+(0.0145)Leu;0.718,0.754,0.746,0.742,0.749,0.816,0.702,0.752,(1.0615)+(0.0025)Gly+(-0.0123)Ala+(-0.1258)Cit+(0.0507)Orn+(-0

.0101)Leu+(0.0498)Phe;0.718,0.752,0.747,0.735,0.735,0.833,0.738,0.760,(3.1064)+(-0.0005)Thr+(-0.0100)Ala+(-0.1102)Cit+(-0.0263)Val+(0.0585)Orn+(0.0362)Leu;0.718,0.771,0.755,0.800,0.733,0.804,0.644,0.746,(1.3940)+(0.0361)Ser+(-0.1368)Asn+(0.0037)Gln+(-0.0155)Arg+(-0.0290)Tyr+(-0.0013)Leu;0.718,0.765,0.782,0.806,0.766,0.773,0.760,0.776,(2.1539)+(-0.1798)Asn+(0.0035)Gln+(0.0103)Thr+(-0.0242)Val+(0.0256)Orn+(0.0730)Phe;0.718,0.768,0.748,0.758,0.783,0.802,0.610,0.738,(2.6060)+(0.0032)Gln+(0.0149)Thr+(-0.1016)Cit+(-0.0188)Tyr+(-0.2393)Met+(0.0388)Orn;0.718,0.766,0.732,0.750,0.668,0.825,0.755,0.749,(1.6359)+(0.0397)Ser+(-0.0090)Gly+(-0.0085)Ala+(0.0134)Pro+(-0.0389)Tyr+(-0.0132)Lys;0.718,0.764,0.749,0.758,0.785,0.779,0.630,0.738,(4.6453)+(-0.0489)Asn+(0.0247)Thr+(-0.0697)Cit+(-0.0032)Arg+(0.0073)Pro+(-0.2374)Met;0.718,0.763,0.761,0.784,0.740,0.805,0.710,0.760,(4.3296)+(-0.0537)Asn+(0.0193)Thr+(-0.0072)Ala+(0.0129)Pro+(-0.0183)Tyr+(-0.1765)Met;0.718,0.760,0.791,0.802,0.747,0.804,0.844,0.799,(3.9018)+(-0.1236)Asn+(-0.0052)Ala+(-0.0042)Arg+(-0.0375)Val+(0.0473)Leu+(0.0709)Phe;0.718,0.765,0.734,0.730,0.686,0.793,0.804,0.753,(1.6024)+(-0.0016)Gly+(0.0012)Gln+(-0.0063)Pro+(-0.0150)Lys+(0.1533)Ile+(-0.0820)Leu;0.718,0.766,0.679,0.663,0.670,0.735,0.696,0.691,(-1.8836)+(0.0446)Ser+(-0.2003)Asn+(0.0010)Gln+(-0.0001)Orn+(0.0195)Ile+(0.0359)Phe;0.718,0.765,0.747,0.800,0.748,0.709,0.632,0.722,(3.1799)+(-0.1171)Asn+(0.0235)Thr+(-0.0199)Arg+(-0.0710)Tyr+(-0.0198)Leu+(0.1005)Phe;0.718,0.768,0.776,0.808,0.730,0.749,0.805,0.773,(3.9094)+(-0.1273)Asn+(-0.0450)Tyr+(-0.0356)Val+(0.0019)Lys+(0.0398)Leu+(0.0886)Phe;0.718,0.766,0.748,0.765,0.725,0.797,0.718,0.751,(2.7429)+(0.0472)Ser+(-0.1224)Asn+(-0.0079)Gly+(0.0056)Thr+(-0.0337)Tyr+(-0.0072)Lys;0.718,0.763,0.791,0.816,0.795,0.840,0.679,0.783,(3.0491)+(0.0051)Gln+(0.0210)Thr+(-0.0048)Ala+(-0.0798)Cit+(-0.2169)Met+(-0.0050)Lys;0.718,0.760,0.779,0.778,0.721,0.832,0.861,0.798,(1.82

27)+(-0.1123)Asn+(0.0032)Gln+(-0.0118)Ala+(0.0056)Pro+(0.0064)Orn+(0.0364)Ile;0.718,0.757,0.736,0.752,0.713,0.815,0.687,0.741,(-0.7355)+(0.0295)Ser+(-0.0090)Ala+(-0.0699)Cit+(-0.0163)Arg+(-0.0089)Val+(0.0706)Phe;0.718,0.753,0.747,0.736,0.735,0.833,0.739,0.761,(2.9861)+(0.0002)Gln+(-0.0101)Ala+(-0.1107)Cit+(-0.0263)Val+(0.0580)Orn+(0.0361)Leu;0.718,0.767,0.765,0.795,0.752,0.828,0.667,0.761,(4.3949)+(0.0214)Thr+(-0.0063)Ala+(-0.0153)Arg+(0.0147)Pro+(-0.0089)Val+(-0.2232)Met;0.718,0.764,0.714,0.748,0.667,0.821,0.642,0.720,(0.9132)+(0.0259)Ser+(-0.0097)Ala+(-0.0266)Arg+(0.0123)Pro+(-0.0425)Tyr+(0.0186)Orn;0.718,0.756,0.794,0.815,0.763,0.818,0.788,0.796,(2.5447)+(-0.0563)Asn+(0.0003)Gly+(0.0051)Gln+(-0.0072)Ala+(0.0122)Pro+(-0.1745)Met;0.718,0.763,0.750,0.750,0.739,0.855,0.697,0.760,(1.2949)+(0.0298)Ser+(0.0013)Gln+(-0.0086)Ala+(-0.0871)Cit+(-0.0172)Lys+(0.0141)Leu;0.718,0.761,0.767,0.795,0.767,0.734,0.718,0.753,(1.4156)+(-0.0077)Arg+(-0.0262)Tyr+(-0.2316)Met+(-0.0026)Lys+(-0.0080)Leu+(0.1043)Phe;0.718,0.767,0.679,0.655,0.633,0.777,0.771,0.709,(-0.3903)+(0.0315)Ser+(-0.0076)Gly+(-0.0028)Gln+(-0.0061)Pro+(0.1540)Ile+(-0.0884)Leu;0.718,0.762,0.762,0.789,0.759,0.797,0.669,0.754,(4.9032)+(-0.0704)Asn+(-0.0000)Gly+(0.0212)Thr+(0.0102)Pro+(-0.0128)Val+(-0.1988)Met;0.718,0.762,0.757,0.795,0.748,0.724,0.698,0.741,(3.5011)+(-0.0894)Asn+(-0.0617)Cit+(0.0074)Pro+(-0.0619)Tyr+(-0.0183)Leu+(0.0939)Phe;0.718,0.762,0.772,0.805,0.739,0.827,0.711,0.771,(2.7589)+(0.0030)Gln+(0.0147)Thr+(-0.0065)Ala+(0.0144)Pro+(-0.0088)Val+(-0.2466)Met;0.718,0.757,0.756,0.795,0.716,0.750,0.741,0.750,(2.6882)+(-0.1214)Asn+(0.0003)Gly+(0.0182)Thr+(-0.0072)Ala+(-0.0609)Tyr+(0.0820)Phe;0.718,0.760,0.785,0.811,0.788,0.828,0.679,0.776,(2.8416)+(0.0048)Gln+(0.0200)Thr+(-0.0049)Ala+(-0.0796)Cit+(-0.0029)Tyr+(-0.2270)Met;0.718,0.757,0.790,0.817,0.772,0.791,0.753,0.783,(3.5817)+(-0.1370)Asn+(0.0208)Thr+(-0.0053)Ala+(-0.0157)Arg+(-0.0186)Val+(0.0879

)Phe;0.718,0.756,0.748,0.743,0.738,0.840,0.713,0.758,(3.1238)+(0.0015)Gly+(-0.0126)Ala+(-0.1188)Cit+(0.0113)Pro+(-0.0092)Val+(0.0543)Orn;0.718,0.766,0.768,0.800,0.739,0.836,0.693,0.767,(2.0246)+(0.0341)Ser+(-0.1578)Asn+(0.0032)Gln+(0.0023)Thr+(-0.0107)Val+(-0.0034)Lys;0.718,0.755,0.759,0.751,0.758,0.817,0.737,0.766,(1.6295)+(-0.0028)Thr+(-0.0117)Ala+(-0.1205)Cit+(0.0522)Orn+(-0.0106)Leu+(0.0481)Phe;0.718,0.768,0.801,0.808,0.790,0.822,0.790,0.802,(2.5467)+(0.0059)Gln+(-0.0576)Cit+(0.0088)Tyr+(-0.0330)Val+(-0.2589)Met+(0.0579)Leu;0.718,0.761,0.784,0.785,0.778,0.822,0.764,0.787,(4.7824)+(-0.0089)Ala+(-0.0740)Cit+(0.0056)Arg+(0.0155)Pro+(-0.1600)Met+(-0.0005)Lys;0.718,0.759,0.762,0.770,0.739,0.816,0.753,0.769,(3.3435)+(0.0002)Gly+(-0.0080)Ala+(0.0127)Pro+(-0.1899)Met+(0.0243)Orn+(-0.0054)Lys;0.718,0.757,0.771,0.792,0.788,0.821,0.643,0.761,(4.4937)+(0.0010)Gly+(0.0228)Thr+(-0.0045)Ala+(-0.0724)Cit+(-0.0019)Val+(-0.2086)Met;0.718,0.765,0.734,0.748,0.753,0.818,0.595,0.728,(4.3576)+(0.0055)Thr+(-0.1073)Cit+(-0.0417)Tyr+(-0.0078)Val+(0.0622)Orn+(-0.0141)Lys;0.718,0.763,0.816,0.834,0.777,0.850,0.825,0.822,(2.5515)+(0.0052)Gln+(-0.0031)Ala+(-0.0078)Arg+(-0.0343)Val+(-0.2259)Met+(0.0612)Leu;0.718,0.756,0.731,0.731,0.717,0.828,0.692,0.742,(1.0800)+(0.0278)Ser+(-0.0125)Ala+(-0.0820)Cit+(-0.0118)Arg+(0.0132)Pro+(-0.0000)Leu;0.718,0.753,0.769,0.771,0.771,0.840,0.707,0.772,(3.1339)+(0.0016)Gln+(-0.0093)Ala+(-0.1093)Cit+(-0.0096)Arg+(-0.0082)Val+(0.0575)Orn;0.718,0.763,0.752,0.744,0.739,0.845,0.735,0.766,(1.7972)+(0.0373)Ser+(-0.0046)Gly+(-0.0082)Ala+(-0.0779)Cit+(-0.0167)Lys+(0.0130)Leu;0.718,0.764,0.780,0.781,0.773,0.816,0.763,0.783,(4.7815)+(-0.0090)Ala+(-0.0701)Cit+(0.0150)Pro+(-0.0068)Tyr+(-0.1555)Met+(0.0062)Leu;0.718,0.768,0.716,0.750,0.703,0.778,0.606,0.710,(2.2170)+(0.0395)Ser+(-0.1226)Asn+(-0.0157)Arg+(0.0086)Pro+(-0.0365)Tyr+(-0.0045)Leu;0.718,0.763,0.705,0.698,0.653,0.762,0.793,0.726,(-0.2224)+(-0.0014)Gl

y+(-0.0010)Gln+(-0.0076)Pro+(0.1579)Ile+(-0.0986)Leu+(0.0356)Phe;0.71
8,0.757,0.707,0.709,0.703,0.732,0.690,0.708,(1.6084)+(0.0002)Gly+(0.0
194)Thr+(-0.0212)Tyr+(-0.3169)Met+(-0.0009)Orn+(0.0558)Ile;0.718,0.76
6,0.759,0.753,0.799,0.782,0.676,0.753,(3.0756)+(-0.1306)Asn+(0.0057)T
hr+(-0.1027)Cit+(0.0467)Orn+(-0.0234)Leu+(0.0581)Phe;0.718,0.762,0.78
6,0.794,0.777,0.822,0.760,0.788,(4.9983)+(-0.0080)Ala+(-0.0647)Cit+(0
.0162)Pro+(-0.0053)Val+(-0.1609)Met+(0.0033)Lys;0.718,0.763,0.798,0.7
96,0.786,0.826,0.808,0.804,(3.6425)+(-0.0815)Asn+(-0.0082)Ala+(-0.080
5)Cit+(0.0095)Arg+(-0.0086)Lys+(0.0692)Phe;0.718,0.763,0.710,0.685,0.
755,0.781,0.632,0.713,(2.5317)+(-0.1297)Asn+(0.0055)Gly+(0.0018)Thr+(
-0.1106)Cit+(0.0369)Orn+(0.0227)Ile;0.717,0.766,0.752,0.738,0.696,0.8
19,0.857,0.777,(1.3896)+(0.0005)Gly+(-0.0130)Ala+(0.0054)Pro+(-0.0215
)Lys+(0.0493)Ile+(0.0229)Phe;0.717,0.764,0.703,0.735,0.683,0.768,0.61
4,0.700,(1.8856)+(0.0364)Ser+(-0.1456)Asn+(0.0067)Pro+(-0.0422)Tyr+(0
.0212)Orn+(-0.0071)Leu;0.717,0.764,0.757,0.746,0.698,0.822,0.864,0.78
2,(1.0984)+(0.0011)Gln+(-0.0130)Ala+(0.0051)Pro+(-0.0222)Lys+(0.0493)
Ile+(0.0218)Phe;0.717,0.760,0.700,0.730,0.676,0.760,0.623,0.698,(1.15
78)+(0.0367)Ser+(-0.1542)Asn+(0.0014)Gln+(0.0056)Pro+(-0.0451)Tyr+(0.
0175)Orn;0.717,0.756,0.758,0.747,0.759,0.821,0.741,0.767,(1.2358)+(0.
0014)Gln+(-0.0127)Ala+(-0.1171)Cit+(-0.0092)Arg+(0.0477)Orn+(0.0372)P
he;0.717,0.751,0.755,0.749,0.765,0.832,0.692,0.759,(2.9796)+(0.0017)G
ly+(-0.0109)Ala+(-0.1186)Cit+(-0.0070)Arg+(0.0551)Orn+(-0.0027)Leu;0.
717,0.763,0.764,0.792,0.760,0.795,0.675,0.756,(4.8059)+(-0.0741)Asn+(
0.0204)Thr+(0.0104)Pro+(-0.0137)Val+(-0.2051)Met+(0.0035)Lys;0.717,0.
755,0.755,0.744,0.756,0.835,0.726,0.765,(3.2589)+(-0.0132)Ala+(-0.115
9)Cit+(-0.0071)Arg+(0.0104)Pro+(0.0517)Orn+(-0.0065)Leu;0.717,0.765,0
.738,0.734,0.731,0.769,0.740,0.744,(2.5573)+(0.0022)Gly+(-0.0050)Arg+
(-0.0103)Tyr+(-0.2354)Met+(-0.0088)Lys+(0.0601)Ile;0.717,0.763,0.725,

0.757,0.701,0.780,0.647,0.721,(1.1124)+(0.0369)Ser+(-0.1506)Asn+(0.0018)Gln+(-0.0029)Thr+(-0.0374)Tyr+(0.0212)Orn;0.717,0.759,0.706,0.709,0.701,0.732,0.689,0.708,(1.6650)+(0.0192)Thr+(0.0023)Pro+(-0.0229)Tyr+(-0.3179)Met+(-0.0011)Orn+(0.0533)Ile;0.717,0.758,0.760,0.755,0.707,0.826,0.837,0.781,(2.4252)+(-0.1004)Asn+(0.0022)Gly+(-0.0120)Ala+(0.0063)Pro+(0.0085)Orn+(0.0383)Ile;0.717,0.755,0.752,0.747,0.742,0.838,0.728,0.764,(3.2465)+(0.0003)Gln+(-0.0124)Ala+(-0.1164)Cit+(0.0111)Pro+(-0.0095)Val+(0.0541)Orn;0.717,0.760,0.755,0.765,0.742,0.772,0.743,0.755,(0.7595)+(0.0007)Gly+(0.0049)Gln+(-0.0148)Arg+(-0.0130)Tyr+(-0.2737)Met+(0.0537)Ile;0.717,0.765,0.671,0.626,0.690,0.785,0.669,0.693,(-0.1955)+(0.0417)Ser+(-0.0044)Gly+(-0.0781)Cit+(-0.0058)Arg+(-0.0288)Lys+(0.0509)Ile;0.717,0.764,0.787,0.805,0.743,0.780,0.839,0.792,(2.5137)+(-0.1759)Asn+(0.0052)Gln+(0.0045)Pro+(-0.0426)Val+(0.0456)Leu+(0.0583)Phe;0.717,0.761,0.820,0.846,0.809,0.842,0.759,0.814,(3.0354)+(-0.0733)Asn+(0.0020)Gly+(0.0079)Gln+(-0.0044)Ala+(-0.0782)Cit+(-0.1140)Met;0.717,0.761,0.724,0.735,0.732,0.782,0.634,0.721,(1.3695)+(0.0033)Gln+(-0.1162)Cit+(-0.0684)Tyr+(0.0545)Orn+(-0.0237)Lys+(0.0738)Phe;0.717,0.760,0.769,0.769,0.726,0.835,0.813,0.786,(2.5939)+(-0.0845)Asn+(0.0025)Gly+(-0.0103)Ala+(-0.0143)Arg+(0.0145)Orn+(0.0433)Ile;0.717,0.766,0.737,0.757,0.744,0.806,0.624,0.733,(1.4842)+(0.0394)Ser+(-0.1384)Asn+(-0.0036)Thr+(-0.0172)Arg+(0.0237)Orn+(-0.0088)Leu;0.717,0.763,0.725,0.740,0.738,0.774,0.622,0.718,(2.3823)+(-0.1095)Cit+(-0.0660)Tyr+(0.0589)Orn+(-0.0178)Lys+(-0.0128)Leu+(0.0840)Phe;0.717,0.762,0.756,0.784,0.740,0.803,0.682,0.752,(2.6405)+(0.0186)Thr+(-0.0080)Ala+(-0.0828)Cit+(-0.0562)Tyr+(-0.0159)Lys+(0.0878)Phe;0.717,0.756,0.761,0.777,0.702,0.810,0.803,0.773,(3.3468)+(-0.0681)Asn+(0.0019)Gly+(-0.0087)Ala+(-0.0095)Arg+(-0.0330)Tyr+(0.0531)Ile;0.717,0.765,0.780,0.803,0.754,0.773,0.776,0.777,(2.2162)+

(-0.1636)Asn+(0.0036)Gln+(0.0046)Pro+(-0.0242)Val+(0.0277)Orn+(0.0665)Phe;0.717,0.765,0.758,0.744,0.706,0.825,0.857,0.783,(1.0367)+(0.0011)Gln+(-0.0118)Ala+(0.0117)Orn+(-0.0235)Lys+(0.0503)Ile+(0.0205)Phe;0.717,0.761,0.807,0.830,0.766,0.801,0.837,0.808,(2.3252)+(-0.1647)Asn+(0.0065)Gln+(-0.0122)Arg+(-0.0409)Val+(0.0455)Leu+(0.0629)Phe;0.717,0.758,0.761,0.781,0.750,0.792,0.709,0.758,(4.6243)+(-0.0707)Asn+(0.0097)Pro+(-0.0158)Val+(-0.1527)Met+(0.0331)Orn+(0.0025)Lys;0.717,0.765,0.805,0.815,0.772,0.838,0.821,0.812,(2.2752)+(-0.0002)Gly+(0.0046)Gln+(0.0093)Tyr+(-0.0382)Val+(-0.2729)Met+(0.0643)Leu;0.717,0.766,0.806,0.815,0.774,0.842,0.819,0.813,(2.3137)+(0.0047)Gln+(0.0097)Tyr+(-0.0376)Val+(-0.2682)Met+(-0.0023)Lys+(0.0644)Leu;0.717,0.761,0.764,0.775,0.704,0.820,0.822,0.780,(3.6037)+(-0.0604)Asn+(0.0016)Gly+(-0.0085)Ala+(-0.0299)Tyr+(-0.0103)Lys+(0.0581)Ile;0.717,0.761,0.776,0.775,0.749,0.812,0.810,0.787,(2.8465)+(-0.0926)Asn+(-0.0104)Ala+(0.0081)Pro+(0.0210)Orn+(-0.0119)Lys+(0.0467)Phe;0.717,0.766,0.805,0.820,0.769,0.838,0.818,0.811,(2.4719)+(-0.0006)Gly+(0.0048)Gln+(-0.0362)Val+(-0.2513)Met+(-0.0022)Lys+(0.0625)Leu;0.717,0.765,0.675,0.715,0.657,0.751,0.552,0.669,(-1.1857)+(0.0340)Ser+(0.0038)Thr+(-0.0229)Arg+(-0.0659)Tyr+(-0.0174)Lys+(0.0799)Phe;0.717,0.762,0.770,0.788,0.757,0.774,0.742,0.765,(2.9178)+(-0.1412)Asn+(0.0019)Gly+(-0.0221)Val+(0.0333)Orn+(-0.0028)Lys+(0.0737)Phe;0.717,0.762,0.758,0.780,0.720,0.795,0.751,0.762,(5.7846)+(-0.1488)Asn+(-0.0002)Gly+(0.0222)Thr+(-0.0288)Tyr+(-0.0425)Val+(0.0620)Leu;0.717,0.762,0.787,0.793,0.777,0.827,0.761,0.790,(5.0452)+(-0.0081)Ala+(-0.0688)Cit+(0.0047)Arg+(0.0161)Pro+(-0.0042)Val+(-0.1556)Met;0.717,0.758,0.826,0.861,0.787,0.817,0.820,0.821,(1.9165)+(-0.1313)Asn+(0.0061)Gln+(-0.0048)Ala+(-0.0133)Arg+(-0.0161)Val+(0.0782)Phe;0.717,0.757,0.767,0.822,0.734,0.712,0.733,0.750,(1.4489)+(-0.1274)Asn+(0.0052)Gln+(0.0064)Pro+(-0.0676)Tyr+(-0.0216)Leu+(0.0883)Phe;0.717

,0.767,0.716,0.760,0.630,0.796,0.723,0.727,(-1.0414)+(0.0236)Ser+(-0.0070)Ala+(-0.0550)Tyr+(-0.0240)Val+(0.0260)Leu+(0.0767)Phe;0.717,0.764,0.772,0.766,0.721,0.848,0.837,0.793,(3.1496)+(-0.0804)Asn+(0.0017)Gly+(0.0083)Thr+(-0.0100)Ala+(-0.0145)Lys+(0.0534)Ile;0.717,0.763,0.705,0.686,0.683,0.769,0.753,0.723,(-0.7312)+(0.0478)Ser+(-0.1800)Asn+(-0.0051)Gly+(0.0019)Gln+(-0.0021)Pro+(0.0286)Ile;0.717,0.766,0.753,0.739,0.697,0.817,0.860,0.778,(1.4791)+(-0.0003)Thr+(-0.0130)Ala+(0.0055)Pro+(-0.0213)Lys+(0.0491)Ile+(0.0228)Phe;0.717,0.766,0.657,0.613,0.676,0.783,0.642,0.678,(-1.5505)+(0.0382)Ser+(-0.0963)Cit+(-0.0045)Pro+(-0.0342)Lys+(0.0529)Ile+(0.0404)Phe;0.717,0.756,0.733,0.744,0.702,0.805,0.721,0.743,(-0.9665)+(0.0306)Ser+(-0.0090)Thr+(-0.0092)Ala+(-0.0817)Cit+(-0.0072)Val+(0.0669)Phe;0.717,0.754,0.753,0.739,0.751,0.834,0.736,0.765,(2.5516)+(0.0011)Gln+(-0.0140)Ala+(-0.1178)Cit+(-0.0079)Arg+(0.0096)Pro+(0.0483)Orn;0.717,0.752,0.743,0.733,0.740,0.832,0.710,0.754,(2.6362)+(0.0022)Gly+(-0.0140)Ala+(-0.1258)Cit+(0.0106)Pro+(0.0505)Orn+(-0.0052)Leu;0.717,0.769,0.731,0.746,0.704,0.817,0.685,0.738,(-1.2010)+(0.0324)Ser+(-0.0090)Ala+(-0.0224)Arg+(0.0197)Orn+(-0.0187)Lys+(0.0546)Phe;0.717,0.761,0.693,0.693,0.688,0.735,0.676,0.698,(-1.5271)+(0.0435)Ser+(-0.2006)Asn+(0.0011)Gln+(0.0000)Pro+(0.0048)Orn+(0.0460)Phe;0.717,0.759,0.787,0.813,0.761,0.795,0.765,0.783,(3.0040)+(-0.1506)Asn+(0.0018)Gly+(0.0160)Thr+(-0.0055)Ala+(-0.0184)Val+(0.0873)Phe;0.717,0.768,0.652,0.606,0.680,0.777,0.627,0.673,(-1.6269)+(0.0389)Ser+(-0.0911)Cit+(-0.0064)Arg+(-0.0330)Lys+(0.0463)Ile+(0.0398)Phe;0.717,0.769,0.687,0.726,0.653,0.754,0.607,0.685,(-0.5723)+(0.0325)Ser+(-0.0021)Gln+(-0.0611)Tyr+(-0.0113)Val+(-0.0152)Lys+(0.0937)Phe;0.717,0.767,0.702,0.682,0.613,0.801,0.868,0.741,(-2.1031)+(0.0433)Ser+(-0.0056)Gly+(-0.0221)Thr+(-0.0141)Ala+(0.0076)Pro+(0.0480)Ile;0.717,0.761,0.739,0.711,0.775,0.774,0.713,0.743,(2.6297)+(-0.1175)Asn+(-0.1032)C

it+(-0.0037)Pro+(0.0382)Orn+(0.0174)Ile+(0.0209)Phe;0.717,0.757,0.801,0.808,0.789,0.820,0.793,0.803,(3.6688)+(-0.0789)Asn+(-0.0076)Ala+(-0.0717)Cit+(-0.0052)Lys+(-0.0055)Leu+(0.0732)Phe;0.717,0.757,0.743,0.731,0.745,0.816,0.721,0.753,(1.0713)+(0.0032)Gly+(-0.0046)Thr+(-0.0129)Ala+(-0.1270)Cit+(0.0505)Orn+(0.0408)Phe;0.717,0.756,0.743,0.728,0.741,0.831,0.722,0.755,(2.5449)+(0.0030)Gly+(-0.0058)Thr+(-0.0142)Ala+(-0.1262)Cit+(0.0106)Pro+(0.0515)Orn;0.717,0.760,0.779,0.791,0.742,0.833,0.788,0.788,(5.6234)+(-0.1391)Asn+(0.0222)Thr+(-0.0046)Ala+(-0.0096)Arg+(-0.0425)Val+(0.0641)Leu;0.717,0.766,0.731,0.766,0.709,0.789,0.641,0.726,(1.4579)+(0.0348)Ser+(-0.1526)Asn+(0.0019)Gln+(-0.0364)Tyr+(0.0220)Orn+(-0.0045)Leu;0.717,0.763,0.698,0.694,0.695,0.776,0.659,0.706,(-0.7352)+(0.0423)Ser+(-0.1631)Asn+(0.0020)Gln+(-0.0216)Arg+(0.0061)Orn+(0.0297)Ile;0.717,0.760,0.763,0.781,0.758,0.804,0.695,0.759,(4.9504)+(-0.0608)Asn+(-0.0108)Arg+(0.0096)Pro+(-0.0151)Val+(-0.1388)Met+(0.0370)Orn;0.717,0.759,0.819,0.838,0.758,0.856,0.866,0.830,(3.7742)+(-0.1418)Asn+(0.0004)Gly+(0.0058)Gln+(-0.0044)Ala+(-0.0386)Val+(0.0581)Leu;0.717,0.768,0.645,0.595,0.672,0.771,0.628,0.667,(-1.3843)+(0.0395)Ser+(-0.0011)Gln+(-0.0942)Cit+(-0.0340)Lys+(0.0471)Ile+(0.0398)Phe;0.717,0.769,0.690,0.693,0.687,0.759,0.640,0.695,(2.1699)+(0.0170)Thr+(-0.0881)Cit+(-0.0760)Tyr+(-0.0262)Lys+(0.0452)Ile+(0.0651)Phe;0.717,0.762,0.777,0.799,0.769,0.778,0.738,0.771,(3.4622)+(-0.1260)Asn+(-0.0148)Arg+(-0.0227)Val+(0.0372)Orn+(-0.0001)Lys+(0.0717)Phe;0.717,0.761,0.793,0.819,0.776,0.825,0.740,0.790,(2.4560)+(-0.0797)Asn+(0.0046)Gln+(0.0155)Thr+(-0.0047)Ala+(-0.1908)Met+(0.0158)Orn;0.717,0.753,0.754,0.742,0.750,0.833,0.740,0.766,(3.1548)+(-0.0041)Thr+(-0.0134)Ala+(-0.1205)Cit+(0.0107)Pro+(0.0526)Orn+(-0.0061)Leu;0.717,0.768,0.718,0.745,0.705,0.790,0.623,0.716,(1.9108)+(0.0376)Ser+(-0.1303)Asn+(0.0001)Thr+(-0.0326)Tyr+(0.0262)Orn+(-0.0087)Lys;0.717,0.761,0.787,0.814,0

.794,0.826,0.673,0.777,(2.8725)+(0.0052)Gln+(0.0217)Thr+(-0.0048)Ala+(-0.0747)Cit+(-0.0084)Arg+(-0.2296)Met;0.717,0.758,0.738,0.711,0.772,0.782,0.706,0.743,(3.2200)+(-0.1084)Asn+(-0.1016)Cit+(-0.0024)Arg+(-0.0032)Pro+(0.0396)Orn+(0.0218)Ile;0.717,0.764,0.750,0.746,0.743,0.771,0.763,0.755,(3.1209)+(-0.0115)Asn+(-0.0033)Arg+(-0.0138)Tyr+(-0.2139)Met+(-0.0082)Lys+(0.0573)Ile;0.717,0.757,0.738,0.733,0.719,0.825,0.730,0.752,(1.1951)+(0.0328)Ser+(-0.0039)Gly+(-0.0123)Ala+(-0.0760)Cit+(-0.0125)Arg+(0.0128)Pro;0.717,0.768,0.731,0.768,0.726,0.796,0.597,0.722,(2.4328)+(0.0373)Ser+(-0.1223)Asn+(0.0062)Thr+(-0.0130)Arg+(-0.0285)Tyr+(-0.0043)Lys;0.717,0.761,0.758,0.775,0.734,0.810,0.725,0.761,(3.6714)+(-0.0078)Ala+(-0.0123)Arg+(0.0131)Pro+(-0.0157)Tyr+(-0.1672)Met+(0.0264)Orn;0.717,0.761,0.801,0.822,0.775,0.824,0.786,0.802,(2.6417)+(-0.0501)Asn+(0.0058)Gln+(-0.0070)Ala+(-0.0100)Arg+(0.0122)Pro+(-0.1678)Met;0.717,0.760,0.765,0.778,0.750,0.805,0.732,0.767,(3.8674)+(-0.0488)Asn+(0.0183)Thr+(-0.0077)Ala+(0.0121)Pro+(-0.2084)Met+(0.0022)Leu;0.717,0.756,0.748,0.730,0.746,0.820,0.746,0.760,(1.8206)+(-0.0147)Ala+(-0.1170)Cit+(-0.0079)Arg+(0.0086)Pro+(0.0461)Orn+(0.0317)Phe;0.717,0.766,0.719,0.711,0.707,0.776,0.725,0.730,(-0.5374)+(0.0482)Ser+(-0.1617)Asn+(-0.0050)Gly+(0.0027)Gln+(-0.0206)Arg+(0.0284)Ile;0.717,0.763,0.776,0.801,0.774,0.820,0.681,0.769,(4.7845)+(-0.0809)Asn+(-0.0009)Gly+(0.0177)Thr+(-0.0131)Val+(-0.1608)Met+(0.0302)Orn;0.717,0.757,0.748,0.752,0.782,0.810,0.625,0.742,(4.2498)+(-0.1095)Asn+(0.0035)Gly+(-0.1050)Cit+(-0.0031)Arg+(0.0524)Orn+(-0.0121)Leu;0.717,0.762,0.771,0.767,0.728,0.827,0.830,0.788,(3.0454)+(-0.0886)Asn+(0.0078)Thr+(-0.0118)Ala+(-0.0140)Arg+(0.0064)Pro+(0.0396)Ile;0.717,0.758,0.814,0.833,0.797,0.853,0.769,0.813,(3.8296)+(-0.1157)Asn+(0.0069)Gln+(0.0146)Thr+(-0.0068)Ala+(-0.0838)Cit+(-0.0076)Lys;0.717,0.769,0.747,0.756,0.711,0.810,0.755,0.758,(-0.7494)+(0.0433)Ser+(-0.0070)Gly+(-0.0083)Ala+(

-0.0194)Arg+(-0.0176)Lys+(0.0572)Phe;0.717,0.759,0.772,0.792,0.704,0.819,0.828,0.786,(2.3293)+(-0.0992)Asn+(0.0038)Gln+(-0.0088)Ala+(-0.0402)Tyr+(0.0126)Orn+(0.0446)Ile;0.717,0.763,0.746,0.766,0.720,0.784,0.719,0.747,(2.4713)+(0.0468)Ser+(-0.1328)Asn+(-0.0076)Gly+(0.0032)Thr+(-0.0375)Tyr+(-0.0012)Leu;0.717,0.757,0.757,0.771,0.729,0.809,0.739,0.762,(3.5628)+(-0.0078)Ala+(0.0131)Pro+(-0.0146)Tyr+(-0.1698)Met+(0.0257)Orn+(-0.0052)Lys;0.717,0.762,0.711,0.706,0.696,0.735,0.739,0.719,(-1.3011)+(0.0495)Ser+(-0.1975)Asn+(-0.0050)Gly+(0.0018)Gln+(0.0001)Pro+(0.0439)Phe;0.717,0.755,0.784,0.797,0.765,0.838,0.750,0.787,(5.9795)+(-0.0995)Asn+(0.0143)Thr+(-0.0088)Ala+(-0.0687)Cit+(0.0131)Pro+(-0.0089)Val;0.717,0.769,0.768,0.794,0.732,0.798,0.755,0.770,(1.6529)+(0.0455)Ser+(-0.1450)Asn+(-0.0081)Gly+(0.0036)Gln+(-0.0371)Tyr+(-0.0023)Leu;0.716,0.755,0.757,0.742,0.761,0.818,0.743,0.766,(1.7281)+(-0.0009)Thr+(-0.0125)Ala+(-0.1168)Cit+(-0.0070)Arg+(0.0495)Orn+(0.0378)Phe;0.716,0.754,0.753,0.737,0.746,0.831,0.756,0.767,(2.4953)+(0.0011)Gln+(-0.0051)Thr+(-0.0140)Ala+(-0
.1225)Cit+(0.0099)Pro+(0.0498)Orn;0.716,0.761,0.766,0.786,0.756,0.771,0.731,0.761,(3.5301)+(-0.1298)Asn+(-0.0148)Arg+(0.0050)Pro+(-0.0240)Val+(0.0352)Orn+(0.0682)Phe;0.716,0.757,0.721,0.723,0.697,0.784,0.720,0.731,(2.0733)+(0.0008)Gly+(-0.0067)Thr+(-0.0319)Arg+(0.0174)Orn+(0.1597)Ile+(-0.0964)Leu;0.716,0.761,0.763,0.819,0.737,0.711,0.703,0.743,(1.4950)+(-0.1525)Asn+(0.0048)Gln+(0.0156)Thr+(-0.0710)Tyr+(-0.0204)Leu+(0.0949)Phe;0.716,0.755,0.757,0.752,0.756,0.817,0.731,0.764,(1.2974)+(0.0006)Gln+(-0.0121)Ala+(-0.1223)Cit+(0.0503)Orn+(-0.0106)Leu+(0.0471)Phe;0.716,0.763,0.764,0.792,0.740,0.824,0.695,0.763,(3.8335)+(0.0167)Thr+(-0.0066)Ala+(0.0148)Pro+(-0.0088)Val+(-0.2329)Met+(0.0004)Lys;0.716,0.758,0.743,0.771,0.712,0.813,0.681,0.744,(2.0707)+(0.0360)Ser+(-0.1616)Asn+(0.0027)Gln+(0.0087)Pro+(-0.0142)Val+(-0.0032)Lys;0.

716,0.758,0.798,0.818,0.766,0.822,0.794,0.800,(2.6678)+(-0.0543)Asn+(0.0053)Gln+(-0.0071)Ala+(0.0122)Pro+(-0.1690)Met+(-0.0022)Lys;0.716,0.751,0.758,0.752,0.764,0.833,0.705,0.763,(2.4282)+(0.0014)Gly+(0.0013)Gln+(-0.0114)Ala+(-0.1192)Cit+(-0.0081)Arg+(0.0526)Orn;0.716,0.766,0.690,0.674,0.673,0.764,0.714,0.706,(-1.2802)+(0.0458)Ser+(-0.1661)Asn+(0.0013)Gln+(-0.0117)Thr+(0.0073)Orn+(0.0303)Ile;0.716,0.766,0.654,0.655,0.645,0.762,0.593,0.664,(-0.2679)+(0.0331)Ser+(-0.0206)Arg+(-0.0489)Tyr+(0.0148)Orn+(-0.0216)Lys+(0.0499)Ile;0.716,0.762,0.747,0.763,0.769,0.800,0.621,0.738,(4.4154)+(0.0215)Thr+(-0.0658)Cit+(0.0104)Pro+(-0.0082)Val+(-0.2601)Met+(-0.0005)Lys;0.716,0.762,0.710,0.717,0.730,0.772,0.604,0.706,(2.2116)+(0.0014)Gly+(-0.1134)Cit+(-0.0645)Tyr+(0.0565)Orn+(-0.0219)Lys+(0.0732)Phe;0.716,0.758,0.771,0.791,0.791,0.824,0.641,0.762,(4.5744)+(0.0012)Gly+(0.0235)Thr+(-0.0048)Ala+(-0.0747)Cit+(-0.2023)Met+(-0.0031)Lys;0.716,0.757,0.764,0.797,0.720,0.771,0.763,0.763,(2.5263)+(-0.1001)Asn+(0.0010)Gly+(-0.0070)Ala+(-0.0528)Tyr+(0.0230)Orn+(0.0710)Phe;0.716,0.763,0.800,0.821,0.787,0.784,0.787,0.795,(1.9662)+(-0.1566)Asn+(0.0070)Gln+(-0.0686)Cit+(0.0048)Pro+(-0.0187)Val+(0.0744)Phe;0.716,0.761,0.796,0.832,0.775,0.823,0.721,0.788,(2.7720)+(-0.0833)Asn+(0.0054)Gln+(0.0196)Thr+(-0.0038)Ala+(-0.0129)Tyr+(-0.1757)Met;0.716,0.755,0.743,0.761,0.752,0.806,0.629,0.737,(4.2222)+(-0.0015)Gly+(-0.0922)Cit+(-0.0098)Arg+(-0.0446)Tyr+(-0.0115)Val+(0.0588)Orn;0.716,0.761,0.737,0.731,0.778,0.801,0.619,0.732,(3.2350)+(0.0024)Gly+(-0.0981)Cit+(0.0065)Pro+(-0.2227)Met+(0.0431)Orn+(-0.0035)Leu;0.716,0.756,0.778,0.778,0.739,0.825,0.824,0.792,(5.9815)+(-0.0938)Asn+(-0.0081)Ala+(-0.0529)Cit+(0.0131)Pro+(-0.0318)Val+(0.0481)Leu;0.716,0.759,0.773,0.787,0.744,0.822,0.762,0.779,(2.3085)+(0.0032)Gln+(-0.0079)Ala+(0.0123)Pro+(-0.2061)Met+(0.0210)Orn+(-0.0065)Lys;0.716,0.758,0.762,0.776,0.733,0.804,0.752,0.766,(4.0801)+(-0.0461)Asn+(-0.0076

)Ala+(0.0125)Pro+(-0.0193)Tyr+(-0.1341)Met+(0.0251)Orn;0.716,0.756,0.768,0.790,0.738,0.807,0.741,0.769,(2.1279)+(-0.0013)Gly+(0.0032)Gln+(0.0140)Thr+(-0.0078)Ala+(0.0126)Pro+(-0.2590)Met;0.716,0.752,0.746,0.736,0.740,0.818,0.731,0.756,(1.6858)+(-0.0141)Ala+(-0.1218)Cit+(0.0092)Pro+(0.0480)Orn+(-0.0125)Leu+(0.0425)Phe;0.716,0.767,0.723,0.737,0.714,0.755,0.682,0.722,(3.5772)+(-0.0896)Asn+(0.0045)Gly+(-0.0786)Cit+(0.0020)Arg+(-0.0434)Tyr+(0.0433)Ile;0.716,0.752,0.730,0.715,0.725,0.818,0.717,0.744,(1.0519)+(0.0031)Gly+(-0.0154)Ala+(-0.1292)Cit+(0.0088)Pro+(0.0453)Orn+(0.0328)Phe;0.716,0.749,0.758,0.757,0.758,0.833,0.706,0.763,(2.9838)+(0.0007)Gly+(0.0007)Gln+(-0.0098)Ala+(-0.1180)Cit+(-0.0077)Val+(0.0575)Orn;0.716,0.766,0.723,0.754,0.706,0.786,0.632,0.719,(1.7924)+(0.0372)Ser+(-0.1417)Asn+(-0.0022)Thr+(-0.0351)Tyr+(0.0245)Orn+(-0.0039)Leu;0.716,0.766,0.720,0.702,0.744,0.780,0.676,0.726,(2.1704)+(-0.0970)Asn+(0.0070)Gly+(-0.0893)Cit+(-0.0173)Lys+(0.0378)Ile+(0.0434)Phe;0.716,0.763,0.674,0.681,0.642,0.741,0.672,0.684,(-0.0896)+(0.0426)Ser+(-0.0086)Gly+(-0.0009)Gln+(-0.0257)Arg+(-0.0670)Tyr+(0.0401)Ile;0.716,0.763,0.675,0.684,0.643,0.739,0.672,0.684,(-0.2348)+(0.0420)Ser+(-0.0090)Gly+(-0.0271)Arg+(0.0028)Pro+(-0.0702)Tyr+(0.0362)Ile;0.716,0.764,0.751,0.781,0.724,0.821,0.675,0.750,(2.3624)+(0.0363)Ser+(-0.0106)Gly+(-0.0272)Arg+(-0.0461)Tyr+(-0.0119)Val+(0.0332)Orn;0.716,0.760,0.818,0.852,0.775,0.814,0.822,0.816,(1.7609)+(-0.1443)Asn+(0.0016)Gly+(0.0049)Gln+(-0.0051)Ala+(-0.0165)Val+(0.0796)Phe;0.716,0.760,0.802,0.830,0.787,0.831,0.738,0.796,(2.6886)+(-0.0775)Asn+(0.0054)Gln+(0.0196)Thr+(-0.0040)Ala+(-0.1884)Met+(-0.0036)Lys;0.716,0.763,0.788,0.792,0.768,0.820,0.796,0.794,(4.8769)+(-0.0664)Asn+(0.0025)Gly+(0.0117)Tyr+(-0.0410)Val+(-0.1788)Met+(0.0687)Leu;0.716,0.753,0.742,0.725,0.736,0.815,0.749,0.756,(1.4891)+(0.0003)Gln+(-0.0151)Ala+(-0.1241)Cit+(0.0085)Pro+(0.0452)Orn+(0.0295)Phe;0.716,0.766,0.727,0.758,0

.709,0.796,0.635,0.724,(1.4483)+(0.0360)Ser+(-0.1387)Asn+(0.0021)Gln+(-0.0329)Tyr+(0.0245)Orn+(-0.0091)Lys;0.716,0.765,0.773,0.800,0.772,0.819,0.671,0.766,(4.6825)+(-0.0825)Asn+(0.0172)Thr+(-0.0130)Val+(-0.1599)Met+(0.0299)Orn+(0.0001)Lys;0.716,0.755,0.742,0.766,0.751,0.816,0.608,0.735,(3.3490)+(0.0018)Gln+(-0.0937)Cit+(-0.0123)Arg+(-0.0453)Tyr+(-0.0113)Val+(0.0558)Orn;0.716,0.768,0.730,0.770,0.723,0.792,0.599,0.721,(2.2998)+(0.0374)Ser+(-0.1275)Asn+(0.0051)Thr+(-0.0145)Arg+(-0.0308)Tyr+(-0.0004)Leu;0.716,0.759,0.799,0.806,0.785,0.814,0.797,0.800,(3.4393)+(-0.0907)Asn+(-0.0080)Ala+(-0.0751)Cit+(0.0035)Arg+(-0.0078)Leu+(0.0719)Phe;0.716,0.758,0.770,0.772,0.725,0.835,0.813,0.786,(2.6955)+(-0.0917)Asn+(0.0024)Gly+(0.0080)Thr+(-0.0104)Ala+(-0.0149)Arg+(0.0464)Ile;0.716,0.762,0.799,0.800,0.780,0.828,0.813,0.805,(5.9146)+(-0.0515)Asn+(-0.0032)Ala+(-0.0448)Cit+(-0.0322)Val+(-0.1261)Met+(0.0591)Leu;0.716,0.765,0.803,0.820,0.759,0.801,0.848,0.807,(2.3987)+(-0.1701)Asn+(0.0057)Gln+(-0.0414)Val+(-0.0027)Lys+(0.0475)Leu+(0.0615)Phe;0.716,0.762,0.791,0.801,0.744,0.803,0.850,0.800,(3.8361)+(-0.1287)Asn+(-0.0053)Ala+(-0.0379)Val+(-0.0000)Lys+(0.0481)Leu+(0.0702)Phe;0.716,0.750,0.750,0.739,0.745,0.834,0.730,0.762,(2.7527)+(0.0006)Gln+(-0.0137)Ala+(-0.1226)Cit+(0.0102)Pro+(0.0501)Orn+(-0.0060)Leu;0.716,0.759,0.659,0.659,0.611,0.717,0.719,0.676,(-0.6834)+(0.0453)Ser+(-0.0084)Gly+(-0.0022)Gln+(-0.0116)Thr+(-0.0660)Tyr+(0.0411)Ile;0.716,0.759,0.775,0.770,0.736,0.836,0.824,0.791,(2.9372)+(-0.0891)Asn+(0.0071)Thr+(-0.0105)Ala+(-0.0156)Arg+(0.0128)Orn+(0.0406)Ile;0.716,0.762,0.778,0.765,0.778,0.801,0.795,0.785,(1.1779)+(-0.1183)Asn+(0.0076)Gln+(-0.0895)Cit+(-0.0189)Lys+(0.0332)Ile+(0.0362)Phe;0.716,0.763,0.744,0.742,0.731,0.774,0.752,0.750,(4.4863)+(-0.0616)Asn+(-0.0758)Cit+(0.0099)Arg+(-0.0409)Tyr+(-0.0134)Lys+(0.0492)Ile;0.716,0.759,0.769,0.811,0.732,0.801,0.712,0.764,(4.1353)+(-0.1277)Asn+(0.0042)Gln+(0.0084)Pro+(-0.03

73)Tyr+(-0.0166)Val+(0.0335)Orn;0.716,0.761,0.732,0.732,0.765,0.792,0.620,0.727,(3.4948)+(0.0020)Gly+(-0.0981)Cit+(0.0070)Pro+(-0.0220)Tyr+(-0.1953)Met+(0.0450)Orn;0.716,0.752,0.753,0.746,0.763,0.830,0.699,0.759,(2.8566)+(0.0020)Gly+(-0.0019)Thr+(-0.0111)Ala+(-0.1200)Cit+(-0.0058)Arg+(0.0550)Orn;0.716,0.766,0.736,0.733,0.735,0.792,0.705,0.741,(1.0232)+(0.0492)Ser+(-0.1409)Asn+(-0.0057)Gly+(-0.0049)Thr+(-0.0166)Arg+(0.0192)Orn;0.716,0.760,0.760,0.780,0.751,0.814,0.691,0.759,(3.6683)+(-0.0001)Gly+(0.0198)Thr+(-0.0076)Ala+(-0.0150)Arg+(0.0131)Pro+(-0.2353)Met;0.716,0.757,0.712,0.744,0.664,0.820,0.649,0.719,(1.2087)+(0.0289)Ser+(-0.0008)Gln+(-0.0094)Ala+(-0.0232)Arg+(0.0137)Pro+(-0.0378)Tyr;0.716,0.756,0.785,0.802,0.794,0.804,0.704,0.776,(2.4334)+(-0.0703)Asn+(0.0026)Gly+(0.0074)Gln+(-0.0791)Cit+(0.0074)Pro+(-0.1882)Met;0.716,0.750,0.721,0.725,0.701,0.800,0.694,0.730,(-0.7010)+(0.0289)Ser+(-0.0014)Gln+(-0.0110)Ala+(-0.0911)Cit+(-0.0048)Leu+(0.0599)Phe;0.716,0.762,0.747,0.731,0.695,0.815,0.850,0.773,(2.0033)+(-0.0023)Thr+(-0.0124)Ala+(0.0052)Pro+(0.0137)Orn+(-0.0208)Lys+(0.0497)Ile;0.716,0.759,0.738,0.744,0.720,0.753,0.749,0.742,(0.6587)+(0.0004)Gly+(0.0037)Gln+(0.0025)Pro+(-0.0165)Tyr+(-0.2912)Met+(0.0510)Ile;0.716,0.765,0.651,0.651,0.637,0.762,0.598,0.662,(-0.0992)+(0.0358)Ser+(-0.0011)Gln+(-0.0181)Arg+(-0.0465)Tyr+(-0.0198)Lys+(0.0541)Ile;0.716,0.750,0.753,0.746,0.759,0.827,0.705,0.759,(2.8116)+(0.0020)Gly+(-0.0034)Thr+(-0.0111)Ala+(-0.1239)Cit+(0.0559)Orn+(-0.0021)Leu;0.716,0.763,0.663,0.693,0.589,0.756,0.675,0.678,(-0.7295)+(0.0299)Ser+(-0.0037)Gln+(-0.0108)Ala+(0.0115)Pro+(-0.0642)Tyr+(0.0662)Phe;0.716,0.760,0.710,0.714,0.727,0.766,0.623,0.708,(2.4258)+(-0.1102)Cit+(0.0025)Pro+(-0.0678)Tyr+(0.0559)Orn+(-0.0219)Lys+(0.0711)Phe;0.716,0.757,0.741,0.770,0.708,0.809,0.683,0.743,(2.0152)+(0.0361)Ser+(-0.1660)Asn+(0.0026)Gln+(-0.0015)Thr+(0.0088)Pro+(-0.0150)Val;0.716,0.762,0.780,0.780,0.722,0.833,0.862,0

.799,(1.8421)+(-0.1154)Asn+(0.0033)Gln+(0.0028)Thr+(-0.0119)Ala+(0.0057)Pro+(0.0379)Ile;0.716,0.761,0.742,0.766,0.764,0.740,0.635,0.726,(0.8922)+(0.0051)Gly+(-0.0725)Cit+(-0.0212)Tyr+(-0.2520)Met+(-0.0060)Leu+(0.1130)Phe;0.716,0.760,0.799,0.805,0.765,0.828,0.833,0.807,(5.3202)+(-0.0612)Asn+(-0.0026)Ala+(0.0023)Arg+(-0.0378)Val+(-0.1431)Met+(0.0661)Leu;0.716,0.758,0.760,0.758,0.702,0.827,0.841,0.782,(2.4909)+(-0.1026)Asn+(0.0022)Gly+(0.0032)Thr+(-0.0120)Ala+(0.0065)Pro+(0.0405)Ile;0.716,0.757,0.725,0.747,0.731,0.808,0.591,0.719,(3.9235)+(-0.0904)Cit+(-0.0113)Arg+(0.0065)Pro+(-0.0500)Tyr+(-0.0128)Val+(0.0555)Orn;0.716,0.756,0.753,0.787,0.724,0.783,0.698,0.748,(5.3413)+(-0.1050)Asn+(-0.0007)Gly+(0.0088)Pro+(-0.0367)Tyr+(-0.0164)Val+(0.0384)Orn;0.716,0.759,0.733,0.766,0.721,0.796,0.626,0.727,(3.3769)+(0.0130)Thr+(0.0104)Pro+(-0.0161)Tyr+(-0.0126)Val+(-0.2368)Met+(0.0237)Orn;0.715,0.761,0.766,0.776,0.747,0.819,0.742,0.771,(3.4864)+(-0.0080)Ala+(-0.0123)Arg+(0.0127)Pro+(-0.1875)Met+(0.0253)Orn+(-0.0014)Leu;0.715,0.759,0.755,0.768,0.787,0.781,0.637,0.743,(4.6279)+(-0.0516)Asn+(0.0264)Thr+(-0.0699)Cit+(-0.0022)Arg+(-0.2270)Met+(0.0052)Leu;0.715,0.758,0.792,0.815,0.766,0.795,0.780,0.789,(3.3815)+(-0.1420)Asn+(0.0181)Thr+(-0.0055)Ala+(-0.0175)Val+(-0.0037)Lys+(0.0859)Phe;0.715,0.758,0.746,0.762,0.769,0.781,0.630,0.736,(2.1158)+(0.0007)Gly+(0.0045)Gln+(0.0181)Thr+(-0.0818)Cit+(0.0076)Pro+(-0.2994)Met;0.715,0.754,0.787,0.808,0.772,0.823,0.737,0.785,(4.7431)+(-0.0690)Asn+(-0.0031)Ala+(-0.0112)Val+(-0.1024)Met+(0.0377)Orn+(0.0009)Lys;0.715,0.754,0.786,0.808,0.770,0.824,0.734,0.784,(4.7421)+(-0.0684)Asn+(0.0002)Gly+(-0.0031)Ala+(-0.0109)Val+(-0.1006)Met+(0.0379)Orn;0.715,
0.761,0.755,0.805,0.709,0.784,0.697,0.749,(1.7886)+(-0.0057)Ala+(-0.0224)Arg+(-0.0539)Tyr+(-0.0154)Val+(0.0356)Orn+(0.0843)Phe;0.715,0.761,0.753,0.775,0.755,0.762,0.683,0.744,(3.0674)+(-0.1361)Asn+(0.0059)Gl

y+(-0.0664)Cit+(0.0063)Pro+(-0.0186)Val+(0.0843)Phe;0.715,0.761,0.748,0.734,0.692,0.819,0.850,0.774,(1.6304)+(0.0009)Gln+(-0.0125)Ala+(0.0048)Pro+(0.0117)Orn+(-0.0221)Lys+(0.0501)Ile;0.715,0.757,0.731,0.732,0.724,0.749,0.730,0.734,(2.3655)+(-0.0275)Asn+(0.0022)Gly+(0.0031)Pro+(-0.0175)Tyr+(-0.2375)Met+(0.0499)Ile;0.715,0.756,0.751,0.801,0.729,0.702,0.701,0.733,(3.1608)+(-0.0896)Asn+(-0.0109)Arg+(0.0077)Pro+(-0.0634)Tyr+(-0.0209)Leu+(0.0898)Phe;0.715,0.759,0.743,0.764,0.751,0.716,0.687,0.729,(1.7267)+(-0.0598)Cit+(0.0096)Pro+(-0.0331)Tyr+(-0.2455)Met+(-0.0113)Leu+(0.1082)Phe;0.715,0.764,0.767,0.782,0.761,0.767,0.738,0.762,(3.2001)+(-0.1557)Asn+(0.0130)Thr+(-0.0231)Val+(0.0301)Orn+(-0.0056)Lys+(0.0758)Phe;0.715,0.766,0.692,0.744,0.636,0.740,0.635,0.689,(-1.5269)+(0.0252)Ser+(-0.0110)Thr+(-0.0675)Tyr+(-0.0165)Val+(0.0220)Orn+(0.0807)Phe;0.715,0.756,0.727,0.731,0.699,0.789,0.730,0.737,(2.3870)+(0.0010)Gly+(-0.0030)Thr+(-0.0281)Arg+(-0.0038)Lys+(0.1592)Ile+(-0.0913)Leu;0.715,0.756,0.776,0.795,0.793,0.825,0.654,0.767,(4.7490)+(0.0240)Thr+(-0.0045)Ala+(-0.0714)Cit+(-0.0015)Val+(-0.2016)Met+(-0.0025)Lys;0.715,0.754,0.756,0.744,0.753,0.814,0.753,0.766,(1.2136)+(0.0011)Gln+(-0.0040)Thr+(-0.0128)Ala+(-0.1233)Cit+(0.0491)Orn+(0.0363)Phe;0.715,0.755,0.728,0.717,0.705,0.823,0.734,0.745,(1.1880)+(0.0312)Ser+(-0.0034)Gly+(-0.0009)Gln+(-0.0130)Ala+(-0.0864)Cit+(0.0129)Pro;0.715,0.762,0.800,0.840,0.798,0.833,0.674,0.786,(3.4127)+(-0.0878)Asn+(0.0065)Gln+(0.0238)Thr+(-0.0164)Arg+(-0.0100)Val+(-0.1812)Met;0.715,0.761,0.746,0.730,0.692,0.815,0.847,0.771,(1.9736)+(-0.0001)Gly+(-0.0125)Ala+(0.0051)Pro+(0.0128)Orn+(-0.0214)Lys+(0.0498)Ile;0.715,0.761,0.729,0.779,0.712,0.677,0.671,0.710,(2.7986)+(-0.1296)Asn+(0.0163)Thr+(0.0064)Pro+(-0.0749)Tyr+(-0.0226)Leu+(0.0954)Phe;0.715,0.749,0.752,0.746,0.756,0.829,0.707,0.759,(2.4779)+(0.0014)Gly+(0.0007)Gln+(-0.0114)Ala+(-0.1248)Cit+(0.0534)Orn+(-0.0024)Leu;0.715,0.760,0.792,0.822,0

.785,0.833,0.696,0.784,(4.9053)+(-0.0721)Asn+(0.0226)Thr+(-0.0026)Ala+(-0.0084)Val+(-0.1643)Met+(0.0020)Lys;0.715,0.760,0.760,0.781,0.786,0.793,0.624,0.746,(5.3041)+(-0.0567)Asn+(0.0265)Thr+(-0.0677)Cit+(-0.0131)Tyr+(-0.1801)Met+(-0.0024)Lys;0.715,0.763,0.745,0.751,0.707,0.810,0.764,0.758,(-1.2865)+(0.0355)Ser+(-0.0061)Gly+(-0.0107)Ala+(-0.0300)Arg+(0.0127)Orn+(0.0399)Phe;0.715,0.757,0.799,0.831,0.767,0.804,0.777,0.795,(3.0538)+(-0.1118)Asn+(0.0030)Gly+(-0.0049)Ala+(-0.0086)Arg+(-0.0156)Val+(0.0851)Phe;0.715,0.760,0.754,0.790,0.712,0.759,0.739,0.750,(2.6231)+(-0.1206)Asn+(0.0149)Thr+(-0.0074)Ala+(-0.0617)Tyr+(0.0168)Orn+(0.0759)Phe;0.715,0.757,0.765,0.769,0.788,0.746,0.720,0.756,(1.7205)+(-0.0670)Cit+(0.0058)Arg+(-0.2555)Met+(-0.0062)Lys+(-0.0037)Leu+(0.0987)Phe;0.715,0.760,0.762,0.768,0.740,0.814,0.757,0.770,(3.3362)+(-0.0081)Ala+(0.0125)Pro+(-0.1913)Met+(0.0239)Orn+(-0.0059)Lys+(0.0022)Leu;0.715,0.754,0.747,0.727,0.742,0.815,0.760,0.761,(1.7792)+(-0.0043)Thr+(-0.0148)Ala+(-0.1221)Cit+(0.0089)Pro+(0.0474)Orn+(0.0303)Phe;0.715,0.754,0.778,0.780,0.764,0.827,0.764,0.784,(5.1510)+(-0.0927)Asn+(0.0125)Thr+(-0.0108)Ala+(-0.0799)Cit+(0.0008)Arg+(0.0117)Pro;0.715,0.750,0.761,0.753,0.771,0.830,0.713,0.767,(3.2650)+(-0.0006)Thr+(-0.0107)Ala+(-0.1161)Cit+(-0.0064)Arg+(0.0555)Orn+(-0.0034)Leu;0.715,0.764,0.732,0.751,0.700,0.826,0.684,0.740,(-1.0109)+(0.0353)Ser+(-0.0011)Gln+(-0.0085)Ala+(-0.0200)Arg+(-0.0162)Lys+(0.0606)Phe;0.715,0.762,0.747,0.768,0.765,0.785,0.624,0.735,(2.4472)+(0.0045)Gln+(0.0192)Thr+(-0.0797)Cit+(0.0085)Pro+(-0.0172)Tyr+(-0.2761)Met;0.715,0.755,0.727,0.728,0.705,0.834,0.694,0.740,(1.6017)+(0.0267)Ser+(-0.0011)Gln+(-0.0119)Ala+(-0.0844)Cit+(0.0142)Pro+(-0.0052)Val;0.715,0.766,0.699,0.722,0.685,0.777,0.611,0.699,(1.7919)+(0.0384)Ser+(-0.1314)Asn+(0.0062)Pro+(-0.0392)Tyr+(0.0232)Orn+(-0.0095)Lys;0.715,0.766,0.696,0.741,0.656,0.758,0.617,0.693,(-1.0121)+(0.0293)Ser+(0.0004)Thr+(-0.0626)Tyr+(-0

.0113)Val+(-0.0164)Lys+(0.0910)Phe;0.715,0.764,0.794,0.793,0.768,0.843,0.814,0.805,(3.6946)+(0.0017)Gly+(-0.0035)Ala+(0.0160)Tyr+(-0.0371)Val+(-0.2312)Met+(0.0671)Leu;0.715,0.764,0.752,0.772,0.779,0.776,0.629,0.739,(4.8694)+(-0.0556)Asn+(0.0268)Thr+(-0.0703)Cit+(-0.0152)Tyr+(-0.2040)Met+(0.0060)Leu;0.715,0.763,0.739,0.788,0.723,0.703,0.667,0.720,(2.6766)+(-0.1306)Asn+(0.0138)Thr+(-0.0715)Tyr+(0.0229)Orn+(-0.0230)Leu+(0.0928)Phe;0.715,0.757,0.757,0.777,0.720,0.804,0.747,0.762,(-0.9994)+(0.0369)Ser+(-0.0063)Gly+(-0.0090)Ala+(-0.0287)Arg+(-0.0124)Leu+(0.0572)Phe;0.715,0.756,0.753,0.736,0.753,0.829,0.743,0.765,(3.0183)+(-0.0026)Thr+(-0.0138)Ala+(-0.1177)Cit+(-0.0053)Arg+(0.0100)Pro+(0.0506)Orn;0.715,0.763,0.778,0.771,0.730,0.831,0.855,0.797,(1.9821)+(-0.1108)Asn+(0.0048)Thr+(-0.0113)Ala+(0.0070)Orn+(0.0349)Ile+(0.0289)Phe;0.715,0.760,0.773,0.791,0.784,0.760,0.713,0.762,(3.9375)+(-0.1487)Asn+(0.0194)Thr+(-0.0554)Cit+(-0.0077)Arg+(-0.0196)Val+(0.0847)Phe;0.715,0.758,0.769,0.786,0.735,0.852,0.733,0.777,(1.5478)+(0.0330)Ser+(-0.0078)Gly+(-0.0064)Ala+(-0.0275)Arg+(-0.0117)Val+(0.0291)Orn;0.715,0.756,0.753,0.766,0.732,0.806,0.720,0.756,(2.9085)+(-0.0006)Gly+(0.0123)Thr+(-0.0081)Ala+(0.0124)Pro+(-0.2423)Met+(0.0155)Orn;0.715,0.764,0.760,0.755,0.761,0.811,0.734,0.765,(1.8307)+(-0.1149)Asn+(0.0044)Gly+(0.0067)Gln+(-0.0930)Cit+(-0.0166)Lys+(0.0434)Ile;0.715,0.757,0.742,0.747,0.691,0.810,0.785,0.758,(2.9630)+(-0.0091)Ala+(-0.0121)Arg+(-0.0365)Tyr+(0.0225)Orn+(-0.0154)Lys+(0.0545)Ile;0.715,0.761,0.750,0.748,0.783,0.800,0.651,0.746,(1.9878)+(0.0015)Gly+(0.0037)Gln+(-0.0993)Cit+(0.0060)Pro+(-0.2487)Met+(0.0368)Orn;0.715,0.760,0.768,0.793,0.695,0.820,0.815,0.781,(2.4494)+(-0.1111)Asn+(0.0038)Gln+(0.0100)Thr+(-0.0089)Ala+(-0.0433)Tyr+(0.0475)Ile;0.715,0.767,0.754,0.761,0.794,0.808,0.611,0.744,(2.3476)+(0.0039)Gln+(0.0164)Thr+(-0.0943)Cit+(-0.0102)Arg+(-0.2658)Met+(0.0354)Orn;0.715,0.759,0.736,0.709,0.771,0.780,0.703,0.

741,(3.1702)+(-0.1192)Asn+(0.0045)Thr+(-0.1042)Cit+(-0.0036)Pro+(0.0379)Orn+(0.0218)Ile;0.715,0.758,0.748,0.801,0.730,0.717,0.667,0.729,(1.2962)+(-0.1402)Asn+(0.0057)Gln+(0.0195)Thr+(-0.0245)Arg+(-0.0753)Tyr+(0.0749)Phe;0.715,0.762,0.755,0.773,0.743,0.749,0.737,0.750,(3.1264)+(-0.1659)Asn+(0.0105)Thr+(0.0046)Pro+(-0.0255)Val+(0.0277)Orn+(0.0720)Phe;0.715,0.759,0.798,0.832,0.774,0.827,0.735,0.792,(3.4533)+(-0.0934)Asn+(0.0053)Gln+(-0.0141)Tyr+(-0.0122)Val+(-0.1095)Met+(0.0331)Orn;0.715,0.768,0.718,0.745,0.705,0.791,0.623,0.716,(1.9030)+(0.0376)Ser+(-0.1302)Asn+(-0.0325)Tyr+(0.0262)Orn+(-0.0087)Lys+(0.0001)Leu;0.715,0.764,0.751,0.773,0.699,0.800,0.767,0.760,(3.7899)+(-0.0819)Asn+(0.0157)Thr+(-0.0087)Ala+(-0.0147)Arg+(-0.0431)Tyr+(0.0504)Ile;0.715,0.760,0.737,0.734,0.709,0.854,0.716,0.753,(1.7868)+(0.0309)Ser+(-0.0075)Ala+(-0.0714)Cit+(-0.0204)Val+(-0.0162)Lys+(0.0437)Leu;0.715,0.757,0.725,0.753,0.681,0.806,0.686,0.731,(-1.4381)+(0.0294)Ser+(-0.0117)Ala+(-0.0310)Arg+(0.0107)Pro+(-0.0150)Leu+(0.0562)Phe;0.715,0.756,0.805,0.828,0.785,0.843,0.759,0.804,(3.3670)+(-0.1260)Asn+(0.0017)Gly+(0.0064)Gln+(0.0114)Thr+(-0.0073)Ala+(-0.0857)Cit;0.715,0.755,0.729,0.729,0.723,0.749,0.725,0.731,(2.3092)+(-0.0316)Asn+(0.0018)Gly+(-0.0185)Tyr+(-0.2266)Met+(0.0104)Orn+(0.0492)Ile;0.715,0.764,0.791,0.790,0.775,0.826,0.806,0.799,(4.7457)+(-0.0041)Ala+(-0.0568)Cit+(0.0076)Arg+(-0.0301)Val+(-0.1865)Met+(0.0584)Leu;0.715,0.758,0.749,0.760,0.702,0.806,0.778,0.761,(-1.4227)+(0.0404)Ser+(-0.0059)Gly+(-0.0091)Thr+(-0.0096)Ala+(-0.0243)Arg+(0.0469)Phe;0.715,0.763,0.774,0.810,0.768,0.743,0.714,0.759,(3.5987)+(-0.0823)Asn+(-0.0619)Cit+(-0.0532)Tyr+(-0.0033)Lys+(-0.0129)Leu+(0.0946)Phe;0.715,0.757,0.769,0.789,0.787,0.817,0.644,0.759,(4.3844)+(0.0012)Gly+(0.0227)Thr+(-0.0049)Ala+(-0.0749)Cit+(-0.0014)Tyr+(-0.2099)Met;0.715,0.753,0.778,0.782,0.765,0.827,0.762,0.784,(5.1968)+(-0.0920)Asn+(0.0126)Thr+(-0.0107)Ala+(-0.0790)Cit+(0.0118)Pro

+(-0.0008)Leu;0.715,0.753,0.742,0.744,0.777,0.805,0.618,0.736,(4.1861)+(-0.1190)Asn+(0.0033)Gly+(0.0035)Thr+(-0.1073)Cit+(0.0507)Orn+(-0.0122)Leu;0.715,0.761,0.753,0.766,0.735,0.812,0.714,0.757,(3.2344)+(0.0127)Thr+(-0.0079)Ala+(0.0123)Pro+(-0.2240)Met+(0.0189)Orn+(-0.0064)Lys;0.715,0.760,0.799,0.825,0.780,0.827,0.746,0.795,(2.3502)+(-0.0777)Asn+(0.0052)Gln+(0.0190)Thr+(-0.0045)Ala+(-0.2058)Met+(0.0041)Leu;0.715,0.757,0.770,0.776,0.749,0.815,0.764,0.776,(3.8305)+(-0.0432)Asn+(-0.0078)Ala+(0.0121)Pro+(-0.1609)Met+(0.0238)Orn+(-0.0023)Leu;0.715,0.767,0.808,0.821,0.781,0.836,0.811,0.812,(2.3278)+(0.0052)Gln+(-0.0090)Arg+(0.0104)Tyr+(-0.0370)Val+(-0.2634)Met+(0.0621)Leu;0.715,0.759,0.757,0.780,0.784,0.786,0.622,0.743,(5.2124)+(-0.0570)Asn+(0.0265)Thr+(-0.0662)Cit+(-0.0026)Arg+(-0.0136)Tyr+(-0.1857)Met;0.715,0.767,0.684,0.660,0.612,0.805,0.813,0.723,(-1.6725)+(0.0388)Ser+(-0.0031)Gln+(-0.0201)Thr+(-0.0124)Ala+(0.0074)Orn+(0.0563)Ile;0.715,0.764,0.726,0.745,0.755,0.774,0.583,0.714,(3.8591)+(0.0013)Gly+(0.0216)Thr+(-0.0751)Cit+(0.0090)Pro+(-0.0165)Tyr+(-0.2605)Met;0.714,0.764,0.743,0.774,0.712,0.813,0.676,0.744,(-1.4471)+(0.0271)Ser+(-0.0096)Ala+(-0.0320)Arg+(0.0170)Orn+(-0.0145)Leu+(0.0576)Phe;0.714,0.764,0.699,0.707,0.723,0.766,0.576,0.693,(2.2928)+(0.0123)Thr+(-0.1161)Cit+(-0.0737)Tyr+(0.0544)Orn+(-0.0255)Lys+(0.0771)Phe;0.714,0.760,0.755,0.764,0.790,0.785,0.637,0.744,(4.7688)+(-0.0478)Asn+(0.0274)Thr+(-0.0721)Cit+(-0.2208)Met+(-0.0055)Lys+(0.0080)Leu;0.714,0.755,0.780,0.823,0.743,0.766,0.756,0.772,(2.7882)+(-0.0948)Asn+(0.0015)Gly+(-0.0053)Ala+(-0.0481)Tyr+(-0.0119)Leu+(0.0909)Phe;0.714,0.760,0.762,0.749,0.782,0.800,0.729,0.765,(1.7270)+(-0.1383)Asn+(0.0059)Gln+(-0.1026)Cit+(-0.0074)Arg+(0.0332)Orn+(0.0180)Ile;0.714,0.759,0.802,0.831,0.785,0.833,0.743,0.798,(3.2119)+(-0.0907)Asn+(0.0053)Gln+(-0.0126)Val+(-0.1344)Met+(0.0314)Orn+(0.0001)Lys;0.714,0.759,0.761,0.779,0.769,0.727,0.722,0.749,(2.3136)+(-0.04

00)Asn+(-0.0656)Cit+(0.0058)Arg+(-0.0286)Tyr+(-0.1982)Met+(0.0981)Phe;0.714,0.764,0.803,0.803,0.774,0.835,0.837,0.813,(5.2036)+(-0.0584)Asn+(-0.0028)Ala+(0.0114)Tyr+(-0.0389)Val+(-0.1599)Met+(0.0675)Leu;0.714,0.758,0.790,0.820,0.784,0.831,0.696,0.783,(4.9991)+(-0.0694)Asn+(-0.0003)Gly+(0.0232)Thr+(-0.0026)Ala+(-0.0080)Val+(-0.1610)Met;0.714,0.764,0.677,0.724,0.621,0.675,0
.672,0.673,(-1.2125)+(0.0385)Ser+(-0.0113)Gly+(0.0073)Pro+(-0.0919)Tyr+(-0.0212)Leu+(0.0812)Phe;0.714,0.763,0.682,0.690,0.646,0.745,0.692,0.693,(-0.4269)+(0.0437)Ser+(-0.0086)Gly+(-0.0051)Thr+(-0.0243)Arg+(-0.0640)Tyr+(0.0402)Ile;0.714,0.756,0.774,0.801,0.789,0.809,0.648,0.762,(2.7159)+(-0.0006)Gly+(0.0048)Gln+(0.0198)Thr+(-0.0719)Cit+(-0.0049)Val+(-0.2581)Met;0.714,0.756,0.729,0.753,0.704,0.805,0.663,0.731,(2.6773)+(0.0380)Ser+(-0.1501)Asn+(0.0002)Thr+(0.0092)Pro+(-0.0140)Val+(-0.0027)Lys;0.714,0.761,0.797,0.806,0.762,0.822,0.830,0.805,(5.2716)+(-0.0648)Asn+(-0.0026)Ala+(-0.0388)Val+(-0.1483)Met+(0.0041)Lys+(0.0658)Leu;0.714,0.758,0.733,0.733,0.725,0.748,0.740,0.736,(2.6004)+(-0.0289)Asn+(0.0030)Pro+(-0.0226)Tyr+(-0.2249)Met+(0.0114)Orn+(0.0446)Ile;0.714,0.756,0.726,0.764,0.679,0.828,0.651,0.730,(1.7467)+(0.0270)Ser+(-0.0082)Ala+(-0.0232)Arg+(0.0148)Pro+(-0.0322)Tyr+(-0.0081)Val;0.714,0.755,0.768,0.786,0.738,0.779,0.777,0.770,(3.4405)+(-0.1451)Asn+(0.0036)Gly+(-0.0068)Arg+(-0.0408)Val+(0.0466)Leu+(0.0704)Phe;0.714,0.757,0.763,0.799,0.735,0.749,0.738,0.755,(1.5983)+(-0.1122)Asn+(0.0048)Gln+(-0.0639)Tyr+(0.0222)Orn+(-0.0132)Lys+(0.0675)Phe;0.714,0.758,0.739,0.740,0.736,0.756,0.729,0.740,(2.8211)+(-0.0239)Asn+(-0.0094)Arg+(-0.0205)Tyr+(-0.2108)Met+(0.0149)Orn+(0.0470)Ile;0.714,0.758,0.761,0.776,0.791,0.793,0.633,0.748,(5.0541)+(-0.0532)Asn+(0.0261)Thr+(-0.0681)Cit+(-0.0013)Arg+(-0.2023)Met+(-0.0025)Lys;0.714,0.749,0.766,0.762,0.771,0.834,0.716,0.771,(2.6610)+(0.0017)Gln+(-0.0109)Ala+(-0.1161)Cit

+(-0.0087)Arg+(0.0533)Orn+(-0.0037)Leu;0.714,0.760,0.779,0.824,0.750,0.811,0.695,0.770,(4.1360)+(-0.1394)Asn+(0.0042)Gln+(0.0098)Thr+(-0.0339)Tyr+(-0.0148)Val+(0.0322)Orn;0.714,0.753,0.748,0.751,0.718,0.805,0.763,0.759,(4.8966)+(-0.1486)Asn+(0.0012)Gly+(0.0057)Pro+(-0.0470)Val+(0.0377)Orn+(0.0568)Leu;0.714,0.750,0.719,0.726,0.695,0.802,0.692,0.729,(-0.5070)+(0.0288)Ser+(-0.0016)Gln+(-0.0097)Ala+(-0.0828)Cit+(-0.0082)Val+(0.0671)Phe;0.714,0.763,0.732,0.735,0.670,0.807,0.802,0.753,(2.7488)+(-0.0108)Ala+(0.0068)Pro+(-0.0405)Tyr+(0.0170)Orn+(-0.0177)Lys+(0.0508)Ile;0.714,0.759,0.760,0.749,0.701,0.832,0.857,0.785,(1.3370)+(0.0005)Gly+(0.0008)Thr+(-0.0118)Ala+(-0.0216)Lys+(0.0534)Ile+(0.0237)Phe;0.714,0.749,0.764,0.763,0.763,0.832,0.721,0.770,(3.0196)+(0.0012)Gln+(-0.0028)Thr+(-0.0096)Ala+(-0.1164)Cit+(-0.0077)Val+(0.0581)Orn;0.714,0.758,0.781,0.784,0.723,0.840,0.855,0.800,(1.5878)+(-0.1149)Asn+(0.0013)Gly+(0.0033)Gln+(-0.0106)Ala+(0.0074)Orn+(0.0414)Ile;0.714,0.759,0.818,0.845,0.755,0.851,0.853,0.826,(3.9538)+(-0.1348)Asn+(0.0062)Gln+(-0.0039)Ala+(-0.0156)Tyr+(-0.0366)Val+(0.0564)Leu;0.714,0.755,0.732,0.763,0.692,0.817,0.672,0.736,(-0.8071)+(0.0311)Ser+(-0.0015)Gln+(-0.0077)Ala+(-0.0271)Arg+(-0.0134)Val+(0.0716)Phe;0.714,0.763,0.749,0.767,0.774,0.802,0.609,0.738,(4.5995)+(0.0233)Thr+(-0.0601)Cit+(-0.0077)Arg+(0.0105)Pro+(-0.0086)Val+(-0.2568)Met;0.714,0.759,0.761,0.777,0.744,0.761,0.756,0.759,(3.2545)+(-0.1403)Asn+(0.0050)Pro+(-0.0234)Val+(0.0324)Orn+(-0.0028)Lys+(0.0680)Phe;0.714,0.757,0.756,0.778,0.732,0.801,0.713,0.756,(3.5080)+(-0.0010)Gly+(0.0169)Thr+(-0.0076)Ala+(0.0137)Pro+(-0.0156)Tyr+(-0.2243)Met;0.714,0.753,0.740,0.727,0.743,0.812,0.716,0.749,(0.9742)+(0.0028)Gly+(0.0000)Gln+(-0.0133)Ala+(-0.1280)Cit+(0.0485)Orn+(0.0395)Phe;0.714,0.763,0.709,0.700,0.695,0.738,0.738,0.718,(-1.2920)+(0.0493)Ser+(-0.1981)Asn+(-0.0050)Gly+(0.0016)Gln+(0.0049)Orn+(0.0421)Phe;0.714,0.761,0.782,0.789,0.774,0.818,0.755

,0.784,(4.9308)+(-0.0086)Ala+(-0.0687)Cit+(0.0156)Pro+(-0.0071)Tyr+(-0.1487)Met+(0.0009)Lys;0.714,0.757,0.795,0.815,0.764,0.817,0.794,0.797,(2.5359)+(-0.0555)Asn+(0.0052)Gln+(-0.0072)Ala+(0.0121)Pro+(-0.1758)Met+(0.0006)Leu;0.714,0.756,0.770,0.791,0.790,0.817,0.638,0.759,(4.4605)+(0.0012)Gly+(0.0237)Thr+(-0.0048)Ala+(-0.0723)Cit+(-0.0040)Arg+(-0.2103)Met;0.714,0.751,0.734,0.736,0.710,0.800,0.734,0.745,(-0.8156)+(0.0307)Ser+(-0.0032)Gly+(-0.0110)Ala+(-0.0888)Cit+(-0.0054)Leu+(0.0561)Phe;0.714,0.761,0.649,0.633,0.610,0.765,0.690,0.675,(-0.6014)+(0.0228)Ser+(-0.0037)Gln+(-0.0063)Pro+(0.0002)Orn+(0.1545)Ile+(-0.0878)Leu;0.714,0.760,0.673,0.641,0.599,0.804,0.818,0.715,(-0.9820)+(0.0368)Ser+(-0.0057)Gly+(-0.0040)Gln+(-0.0150)Ala+(0.0063)Pro+(0.0445)Ile;0.714,0.757,0.742,0.778,0.695,0.822,0.690,0.746,(-1.2118)+(0.0308)Ser+(-0.0043)Thr+(-0.0076)Ala+(-0.0266)Arg+(-0.0129)Val+(0.0695)Phe;0.714,0.758,0.770,0.768,0.717,0.832,0.845,0.790,(0.9119)+(0.0025)Gln+(-0.0115)Ala+(-0.0152)Arg+(-0.0190)Lys+(0.0520)Ile+(0.0246)Phe;0.714,0.758,0.626,0.667,0.609,0.693,0.507,0.619,(-1.4206)+(0.0351)Ser+(-0.0023)Gln+(-0.0299)Arg+(0.0059)Pro+(-0.0791)Tyr+(0.0683)Phe;0.714,0.763,0.757,0.778,0.724,0.794,0.745,0.760,(2.9267)+(-0.0105)Ala+(-0.0778)Cit+(0.0128)Pro+(-0.0500)Tyr+(-0.0104)Lys+(0.0775)Phe;0.714,0.761,0.787,0.796,0.777,0.828,0.757,0.789,(5.2409)+(-0.0079)Ala+(-0.0640)Cit+(0.0161)Pro+(-0.0051)Tyr+(-0.0042)Val+(-0.1432)Met;0.714,0.762,0.750,0.794,0.698,0.778,0.719,0.747,(1.6208)+(-0.0058)Ala+(-0.0544)Tyr+(-0.0126)Val+(0.0332)Orn+(-0.0112)Lys+(0.0823)Phe;0.714,0.764,0.753,0.779,0.714,0.825,0.716,0.758,(1.5140)+(0.0366)Ser+(-0.0089)Gly+(-0.0061)Ala+(-0.0246)Arg+(-0.0434)Tyr+(0.0257)Orn;0.714,0.758,0.760,0.779,0.773,0.734,0.702,0.747,(2.0187)+(-0.0608)Cit+(-0.0250)Tyr+(-0.2172)Met+(-0.0039)Lys+(-0.0054)Leu+(0.1064)Phe;0.714,0.767,0.673,0.627,0.688,0.792,0.679,0.697,(-0.1396)+(0.0409)Ser+(-0.0043)Gly+(-0.0828)Cit+(-0.0038)Pro+

(-0.0300)Lys+(0.0568)Ile;0.714,0.759,0.757,0.778,0.750,0.855,0.649,0.758,(2.3975)+(0.0288)Ser+(-0.0060)Ala+(-0.0733)Cit+(-0.0033)Arg+(-0.0162)Tyr+(-0.0095)Lys;0.714,0.764,0.753,0.781,0.739,0.811,0.669,0.750,(3.9179)+(0.0208)Thr+(-0.0073)Ala+(-0.0155)Arg+(0.0138)Pro+(-0.0156)Tyr+(-0.2155)Met;0.714,0.762,0.701,0.699,0.694,0.775,0.669,0.709,(-0.7630)+(0.0423)Ser+(-0.1620)Asn+(0.0023)Gln+(-0.0208)Arg+(-0.0011)Pro+(0.0331)Ile;0.714,0.758,0.741,0.756,0.771,0.741,0.637,0.726,(0.5173)+(0.0056)Gly+(-0.0768)Cit+(0.0025)Arg+(-0.2870)Met+(-0.0056)Leu+(0.1069)Phe;0.714,0.764,0.746,0.771,0.748,0.811,0.627,0.739,(1.0334)+(0.0363)Ser+(-0.1521)Asn+(0.0026)Gln+(-0.0198)Arg+(0.0203)Orn+(-0.0096)Leu;0.714,0.762,0.771,0.781,0.712,0.819,0.829,0.786,(3.8824)+(-0.0529)Asn+(-0.0084)Ala+(-0.0044)Arg+(-0.0306)Tyr+(-0.0092)Lys+(0.0570)Ile;0.714,0.764,0.659,0.662,0.642,0.762,0.610,0.669,(-0.3840)+(0.0351)Ser+(-0.0020)Thr+(-0.0183)Arg+(-0.0459)Tyr+(-0.0198)Lys+(0.0536)Ile;0.714,0.757,0.733,0.756,0.747,0.808,0.591,0.725,(3.9153)+(0.0027)Thr+(-0.0932)Cit+(-0.0116)Arg+(-0.0453)Tyr+(-0.0114)Val+(0.0570)Orn;0.714,0.762,0.757,0.775,0.748,0.809,0.693,0.756,(3.5037)+(0.0199)Thr+(-0.0078)Ala+(-0.0149)Arg+(0.0128)Pro+(-0.2424)Met+(0.0036)Leu;0.714,0.761,0.755,0.772,0.746,0.852,0.655,0.757,(2.3125)+(0.0289)Ser+(-0.0064)Ala+(-0.0779)Cit+(-0.0169)Tyr+(0.0017)Val+(-0.0110)Lys;0.714,0.761,0.714,0.718,0.731,0.767,0.626,0.711,(2.3970)+(-0.1143)Cit+(0.0039)Arg+(-0.0658)Tyr+(0.0573)Orn+(-0.0226)Lys+(0.0722)Phe;0.714,0.759,0.795,0.831,0.781,0.778,0.740,0.782,(2.1686)+(-0.1710)Asn+(0.0056)Gln+(0.0182)Thr+(-0.0212)Arg+(-0.0221)Val+(0.0791)Phe;0.714,0.758,0.744,0.783,0.720,0.783,0.662,0.737,(5.3255)+(-0.1226)Asn+(0.0102)Thr+(0.0086)Pro+(-0.0396)Tyr+(-0.0170)Val+(0.0343)Orn;0.714,0.765,0.775,0.769,0.733,0.839,0.831,0.793,(3.4939)+(-0.0731)Asn+(0.0113)Thr+(-0.0099)Ala+(-0.0094)Arg+(-0.0130)Lys+(0.0516)Ile;0.714,0.755,0.740,0.746,0.721,0.760,0.747,0.743,

(0.6022)+(0.0004)Gly+(0.0037)Gln+(-0.0153)Tyr+(-0.2877)Met+(0.0028)Orn+(0.0528)Ile;0.714,0.767,0.709,0.755,0.652,0.710,0.706,0.706,(-1.3261)+(0.0413)Ser+(-0.0100)Gly+(-0.0075)Thr+(-0.0785)Tyr+(-0.0165)Leu+(0.0815)Phe;0.714,0.766,0.653,0.610,0.682,0.780,0.618,0.673,(-0.3145)+(0.0364)Ser+(-0.0004)Gln+(-0.0845)Cit+(-0.0049)Arg+(-0.0288)Lys+(0.0533)Ile;0.714,0.762,0.772,0.811,0.765,0.735,0.709,0.755,(3.4722)+(-0.0887)Asn+(-0.0633)Cit+(0.0015)Arg+(-0.0550)Tyr+(-0.0146)Leu+(0.0947)Phe;0.714,0.760,0.787,0.820,0.779,0.829,0.686,0.779,(5.0710)+(-0.0710)Asn+(0.0233)Thr+(-0.0025)Ala+(-0.0071)Tyr+(-0.0076)Val+(-0.1503)Met;0.714,0.757,0.829,0.856,0.813,0.848,0.778,0.824,(3.4153)+(-0.0758)Asn+(0.0082)Gln+(-0.0035)Ala+(-0.0713)Cit+(-0.0038)Val+(-0.1050)Met;0.714,0.760,0.720,0.750,0.674,0.828,0.661,0.728,(1.3555)+(0.0300)Ser+(-0.0088)Ala+(-0.0192)Arg+(0.0136)Pro+(-0.0319)Tyr+(-0.0088)Lys;0.714,0.764,0.658,0.613,0.676,0.772,0.660,0.680,(-1.8388)+(0.0420)Ser+(-0.0097)Thr+(-0.0919)Cit+(-0.0313)Lys+(0.0479)Ile+(0.0404)Phe;0.714,0.759,0.789,0.788,0.775,0.807,0.805,0.794,(5.6999)+(-0.0615)Asn+(-0.0494)Cit+(0.0097)Arg+(-0.0357)Val+(-0.1563)Met+(0.0619)Leu;0.714,0.757,0.608,0.617,0.567,0.678,0.621,0.621,(-2.1323)+(0.0387)Ser+(-0.0040)Gln+(-0.0141)Thr+(-0.0746)Tyr+(0.0351)Ile+(0.0453)Phe;0.714,0.752,0.769,0.779,0.714,0.826,0.819,0.784,(5.1758)+(-0.1153)Asn+(0.0022)Gly+(-0.0071)Ala+(0.0121)Pro+(-0.0382)Val+(0.0549)Leu;0.714,0.760,0.725,0.735,0.763,0.769,0.587,0.713,(3.3341)+(0.0022)Gly+(0.0211)Thr+(-0.0790)Cit+(0.0076)Pro+(-0.2935)Met+(0.0042)Leu;0.714,0.760,0.640,0.682,0.627,0.713,0.500,0.631,(-1.3111)+(0.0331)Ser+(-0.0024)Gln+(-0.0303)Arg+(-0.0757)Tyr+(0.0143)Orn+(0.0674)Phe;0.714,0.758,0.782,0.794,0.756,0.820,0.775,0.786,(5.6177)+(-0.0660)Asn+(-0.0094)Ala+(-0.0737)Cit+(0.0061)Arg+(0.0140)Pro+(-0.0257)Tyr;0.713,0.769,0.738,0.753,0.693,0.820,0.736,0.750,(-1.8942)+(0.0325)Ser+(-0.0125)Thr+(-0.0101)Ala+(-0.0261)Arg+(0.0172)Or

n+(0.0454)Phe;0.713,0.763,0.754,0.767,0.697,0.820,0.793,0.769,(3.9887)+(-0.0751)Asn+(0.0149)Thr+(-0.0085)Ala+(-0.0391)Tyr+(-0.0127)Lys+(0.0563)Ile;0.713,0.759,0.739,0.738,0.767,0.796,0.641,0.736,(3.9096)+(-0.0954)Cit+(0.0074)Pro+(-0.0244)Tyr+(-0.1790)Met+(0.0474)Orn+(-0.0046)Leu;0.713,0.759,0.735,0.751,0.688,0.861,0.702,0.750,(0.8308)+(0.0233)Ser+(-0.0076)Ala+(-0.0264)Arg+(-0.0322)Val+(0.0286)Orn+(0.0421)Leu;0.713,0.752,0.725,0.722,0.701,0.801,0.727,0.738,(-0.6287)+(0.0322)Ser+(-0.0028)Gly+(-0.0012)Gln+(-0.0115)Ala+(-0.0890)Cit+(0.0526)Phe;0.713,0.762,0.750,0.754,0.773,0.801,0.657,0.746,(2.4262)+(0.0039)Gln+(-0.0983)Cit+(0.0068)Pro+(-0.0230)Tyr+(-0.2123)Met+(0.0403)Orn;0.713,0.760,0.765,0.756,0.704,0.832,0.867,0.790,(0.9572)+(-0.0000)Gly+(0.0015)Gln+(-0.0119)Ala+(-0.0224)Lys+(0.0532)Ile+(0.0222)Phe;0.713,0.756,0.736,0.737,0.733,0.756,0.724,0.738,(2.4914)+(-0.0222)Asn+(0.0025)Gly+(-0.0077)Arg+(-0.0141)Tyr+(-0.2280)Met+(0.0538)Ile;0.713,0.750,0.766,0.757,0.771,0.831,0.730,0.772,(2.4
926)+(0.0018)Gln+(-0.0022)Thr+(-0.0113)Ala+(-0.1173)Cit+(-0.0074)Arg+(0.0528)Orn;0.713,0.763,0.709,0.690,0.625,0.803,0.867,0.746,(-2.6617)+(0.0427)Ser+(-0.0054)Gly+(-0.0210)Thr+(-0.0130)Ala+(0.0508)Ile+(0.0158)Phe;0.713,0.763,0.731,0.751,0.684,0.818,0.711,0.741,(-1.5540)+(0.0344)Ser+(-0.0013)Gln+(-0.0087)Thr+(-0.0096)Ala+(-0.0241)Arg+(0.0519)Phe;0.713,0.761,0.755,0.769,0.776,0.800,0.639,0.746,(2.4875)+(0.0049)Gln+(0.0195)Thr+(-0.0802)Cit+(0.0076)Pro+(-0.2792)Met+(-0.0063)Lys;0.713,0.759,0.764,0.777,0.746,0.838,0.713,0.768,(2.6741)+(0.0366)Ser+(-0.0062)Gly+(-0.0056)Ala+(-0.0671)Cit+(-0.0216)Tyr+(-0.0104)Lys;0.713,0.756,0.721,0.719,0.744,0.825,0.605,0.723,(0.8858)+(0.0262)Ser+(-0.0142)Thr+(-0.0908)Cit+(-0.0146)Arg+(-0.0122)Val+(0.0495)Orn;0.713,0.760,0.747,0.781,0.700,0.818,0.703,0.751,(-1.6178)+(0.0323)Ser+(-0.0079)Thr+(-0.0087)Ala+(-0.0259)Arg+(-0.0106)Leu+(0.0611)Phe;0.713,0.758,0.75

2,0.770,0.776,0.788,0.625,0.740,(2.2622)+(0.0050)Gln+(0.0205)Thr+(-0.0742)Cit+(-0.0103)Arg+(0.0075)Pro+(-0.2954)Met;0.713,0.753,0.725,0.744,0.723,0.794,0.627,0.722,(3.8490)+(-0.0019)Gly+(-0.0971)Cit+(0.0062)Pro+(-0.0542)Tyr+(-0.0129)Val+(0.0553)Orn;0.713,0.765,0.807,0.825,0.775,0.836,0.802,0.810,(2.4593)+(0.0053)Gln+(-0.0087)Arg+(-0.0356)Val+(-0.2456)Met+(-0.0002)Lys+(0.0603)Leu;0.713,0.761,0.709,0.704,0.653,0.765,0.798,0.730,(-0.5320)+(-0.0020)Gly+(-0.0079)Pro+(-0.0002)Orn+(0.1579)Ile+(-0.0987)Leu+(0.0340)Phe;0.713,0.761,0.760,0.789,0.714,0.753,0.784,0.760,(1.3399)+(-0.1048)Asn+(0.0053)Gln+(-0.0636)Tyr+(-0.0147)Lys+(0.0304)Ile+(0.0564)Phe;0.713,0.756,0.736,0.743,0.718,0.836,0.683,0.745,(1.5614)+(0.0274)Ser+(-0.0112)Ala+(-0.0740)Cit+(-0.0124)Arg+(0.0141)Pro+(-0.0056)Val;0.713,0.761,0.735,0.727,0.779,0.796,0.621,0.731,(3.1473)+(0.0026)Gly+(-0.0969)Cit+(-0.0019)Arg+(0.0062)Pro+(-0.2271)Met+(0.0419)Orn;0.713,0.759,0.739,0.745,0.720,0.757,0.751,0.743,(0.7025)+(0.0037)Gln+(0.0025)Pro+(-0.0175)Tyr+(-0.2888)Met+(0.0027)Orn+(0.0498)Ile;0.713,0.759,0.754,0.743,0.712,0.823,0.821,0.775,(2.1907)+(0.0006)Gly+(-0.0108)Ala+(-0.0140)Arg+(0.0179)Orn+(-0.0183)Lys+(0.0526)Ile;0.713,0.755,0.741,0.742,0.775,0.805,0.622,0.736,(4.1126)+(-0.1149)Asn+(0.0036)Gly+(-0.1065)Cit+(0.0025)Pro+(0.0508)Orn+(-0.0134)Leu;0.713,0.755,0.761,0.782,0.734,0.800,0.731,0.762,(1.9296)+(0.0029)Gln+(0.0135)Thr+(-0.0080)Ala+(0.0124)Pro+(-0.2648)Met+(0.0034)Leu;0.713,0.754,0.783,0.804,0.754,0.821,0.760,0.785,(4.9392)+(-0.0485)Asn+(0.0015)Gly+(-0.0061)Ala+(0.0150)Pro+(-0.0088)Val+(-0.1293)Met;0.713,0.756,0.670,0.676,0.610,0.716,0.741,0.686,(-1.2163)+(0.0436)Ser+(-0.0092)Gly+(-0.0136)Thr+(0.0023)Pro+(-0.0691)Tyr+(0.0364)Ile;0.713,0.760,0.765,0.757,0.704,0.832,0.867,0.790,(0.9542)+(0.0015)Gln+(-0.0003)Thr+(-0.0118)Ala+(-0.0223)Lys+(0.0532)Ile+(0.0222)Phe;0.713,0.767,0.734,0.768,0.721,0.796,0.623,0.727,(2.0962)+(0.0398)Ser+(-0.1180)Asn+(-0.0109)Arg+

(-0.0263)Tyr+(-0.0041)Lys+(0.0021)Leu;0.713,0.754,0.724,0.736,0.707,0.772,0.694,0.727,(-0.5807)+(0.0436)Ser+(-0.0080)Gly+(-0.0245)Arg+(-0.0141)Val+(-0.0157)Lys+(0.0630)Phe;0.713,0.758,0.756,0.768,0.769,0.734,0.709,0.745,(1.9270)+(-0.0672)Cit+(0.0071)Arg+(-0.0243)Tyr+(-0.2261)Met+(-0.0069)Lys+(0.1028)Phe;0.713,0.759,0.652,0.698,0.631,0.714,0.526,0.642,(-1.5155)+(0.0346)Ser+(-0.0016)Gln+(-0.0026)Thr+(-0.0276)Arg+(-0.0718)Tyr+(0.0710)Phe;0.713,0.753,0.787,0.829,0.752,0.767,0.762,0.778,(3.1645)+(-0.0817)Asn+(-0.0051)Ala+(-0.0081)Arg+(-0.0477)Tyr+(-0.0119)Leu+(0.0910)Phe;0.713,0.758,0.800,0.840,0.758,0.838,0.754,0.798,(3.9756)+(-0.1172)Asn+(0.0046)Gln+(-0.0035)Ala+(-0.0258)Tyr+(-0.0122)Val+(0.0358)Orn;0.713,0.758,0.761,0.754,0.716,0.826,0.829,0.781,(1.5891)+(0.0022)Gln+(-0.0110)Ala+(-0.0161)Arg+(0.0159)Orn+(-0.0192)Lys+(0.0522)Ile;0.713,0.762,0.769,0.756,0.772,0.813,0.765,0.776,(2.3012)+(-0.1220)Asn+(0.0069)Gln+(0.0104)Thr+(-0.0901)Cit+(-0.0189)Lys+(0.0394)Ile;0.713,0.767,0.667,0.618,0.687,0.785,0.674,0.691,(-0.1899)+(0.0412)Ser+(-0.0043)Gly+(-0.0002)Gln+(-0.0827)Cit+(-0.0301)Lys+(0.0515)Ile;0.713,0.764,0.656,0.659,0.640,0.764,0.604,0.667,(-0.3123)+(0.0344)Ser+(-0.0193)Arg+(0.0007)Pro+(-0.0477)Tyr+(-0.0201)Lys+(0.0525)Ile;0.713,0.752,0.736,0.754,0.740,0.799,0.632,0.731,(3.8977)+(-0.0019)Gly+(0.0008)Thr+(-0.0999)Cit+(-0.0486)Tyr+(-0.0114)Val+(0.0576)Orn;0.713,0.760,0.810,0.838,0.769,0.827,0.811,0.811,(4.0281)+(-0.1389)Asn+(0.0080)Gln+(-0.0580)Cit+(-0.0216)Tyr+(-0.0324)Val+(0.0480)Leu;0.713,0.757,0.739,0.745,0.701,0.804,0.753,0.751,(-1.0515)+(0.0378)Ser+(-0.0058)Gly+(-0.0011)Gln+(-0.0102)Ala+(-0.0272)Arg+(0.0459)Phe;0.713,0.766,0.748,0.763,0.721,0.795,0.728,0.752,(2.3999)+(0.0493)Ser+(-0.1168)Asn+(-0.0076)Gly+(-0.0319)Tyr+(-0.0070)Lys+(0.0027)Leu;0.713,0.761,0.713,0.727,0.666,0.802,0.712,0.727,(-1.7488)+(0.0285)Ser+(-0.0131)Ala+(-0.0314)Arg+(0.0090)Pro+(0.0074)Orn+(0.0394)Phe;0.713,0.752,0.775,0.784,0.738,

0.808,0.805,0.784,(2.5526)+(-0.0976)Asn+(0.0025)Gly+(-0.0104)Ala+(0.0094)Pro+(-0.0088)Lys+(0.0539)Phe;0.713,0.761,0.757,0.757,0.785,0.802,0.665,0.752,(2.1919)+(0.0040)Gln+(-0.0974)Cit+(0.0062)Pro+(-0.2405)Met+(0.0382)Orn+(-0.0036)Leu;0.713,0.760,0.698,0.675,0.681,0.760,0.746,0.716,(-0.7290)+(0.0477)Ser+(-0.1816)Asn+(-0.0051)Gly+(0.0016)Gln+(0.0036)Orn+(0.0246)Ile;0.713,0.756,0.758,0.788,0.727,0.805,0.713,0.758,(2.2851)+(0.0029)Gln+(0.0141)Thr+(-0.0076)Ala+(0.0133)Pro+(-0.0139)Tyr+(-0.2410)Met;0.713,0.757,0.753,0.738,0.700,0.825,0.853,0.779,(1.9588)+(0.0001)Gly+(-0.0011)Thr+(-0.0112)Ala+(0.0150)Orn+(-0.0213)Lys+(0.0537)Ile;0.713,0.753,0.742,0.773,0.728,0.734,0.696,0.733,(2.9859)+(-0.0829)Asn+(-0.0102)Arg+(-0.0612)Tyr+(0.0290)Orn+(-0.0102)Lys+(0.0666)Phe;0.713,0.751,0.798,0.814,0.762,0.811,0.823,0.802,(1.4120)+(-0.1136)Asn+(0.0047)Gln+(-0.0104)Ala+(-0.0150)Arg+(0.0079)Pro+(0.0463)Phe;0.713,0.759,0.760,0.755,0.708,0.830,0.831,0.781,(1.4500)+(0.0014)Gly+(-0.0114)Ala+(-0.0131)Arg+(-0.0180)Lys+(0.0528)Ile+(0.0270)Phe;0.713,0.752,0.809,0.827,0.788,0.839,0.783,0.809,(3.3720)+(-0.1250)Asn+(0.0066)Gln+(0.0118)Thr+(-0.0077)Ala+(-0.0850)Cit+(0.0024)Leu;0.713,0.760,0.803,0.826,0.796,0.821,0.745,0.797,(3.4379)+(-0.0771)Asn+(0.0079)Gln+(-0.0663)Cit+(0.0099)Pro+(-0.0094)Val+(-0.1574)Met;0.713,0.760,0.774,0.792,0.756,0.810,0.736,0.774,(1.2241)+(0.0455)Ser+(-0.1493)Asn+(-0.0070)Gly+(0.0041)Gln+(-0.0179)Arg+(-0.0079)Leu;0.713,0.759,0.685,0.672,0.672,0.764,0.691,0.700,(-0.9359)+(0.0417)Ser+(-0.1822)Asn+(0.0012)Gln+(-0.0022)Pro+(0.0037)Orn+(0.0305)Ile;0.713,0.755,0.754,0.772,0.722,0.802,0.740,0.759,(3.2685)+(-0.0003)Gly+(-0.0080)Ala+(0.0133)Pro+(-0.0155)Tyr+(-0.1841)Met+(0.0226)Orn;0.713,0.754,0.762,0.767,0.737,0.821,0.755,0.770,(5.1391)+(-0.1321)Asn+(0.0012)Gly+(-0.0106)Arg+(-0.0453)Val+(0.0430)Orn+(0.0575)Leu;0.713,0.762,0.718,0.705,0.768,0.765,0.617,0.714,(1.9877)+(-0.1359)Asn+(0.0057)Gly+(-0.1111)Cit+(-0.0013)Pro+(0

.0412)Orn+(0.0391)Phe;0.713,0.758,0.825,0.849,0.813,0.839,0.778,0.820,(3.1646)+(-0.0698)Asn+(0.0082)Gln+(-0.0044)Ala+(-0.0756)Cit+(-0.1125)Met+(-0.0010)Lys;0.713,0.758,0.774,0.793,0.794,0.822,0.650,0.765,(4.7438)+(0.0247)Thr+(-0.0048)Ala+(-0.0713)Cit+(-0.0029)Arg+(-0.2025)Met+(-0.0027)Lys;0.713,0.757,0.747,0.781,0.700,0.769,0.738,0.747,(2.4746)+(-0.0097)Ala+(-0.0722)Cit+(0.0134)Pro+(-0.0543)Tyr+(-0.0095)Val+(0.0821)Phe;0.713,0.754,0.731,0.760,0.710,0.717,0.705,0.723,(2.8601)+(-0.0905)Asn+(0.0036)Pro+(-0.0654)Tyr+(0.0254)Orn+(-0.0124)Lys+(0.0654)Phe;0.713,0.752,0.775,0.815,0.735,0.776,0.751,0.769,(2.6998)+(-0.0865)Asn+(0.0020)Gly+(-0.0063)Ala+(-0.0089)Arg+(-0.0467)Tyr+(0.0795)Phe;0.713,0.765,0.742,0.738,0.775,0.775,0.658,0.737,(0.7510)+(-0.1616)Asn+(0.0049)Gly+(0.0050)Gln+(-0.1139)Cit+(0.0353)Orn+(0.0375)Phe;0.713,0.758,0.823,0.844,0.768,0.859,0.858,0.832,(3.7872)+(-0.1345)Asn+(0.0066)Gln+(-0.0041)Ala+(-0.0086)Arg+(-0.0375)Val+(0.0561)Leu;0.713,0.753,0.750,0.785,0.730,0.788,0.672,0.744,(5.5475)+(-0.0942)Asn+(-0.0131)Arg+(0.0089)Pro+(-0.0345)Tyr+(-0.0163)Val+(0.0413)Orn;0.713,0.759,0.747,0.759,0.769,0.780,0.643,0.738,(2.0290)+(0.0046)Gln+(0.0189)Thr+(-0.0820)Cit+(0.0071)Pro+(-0.3070)Met+(0.0032)Leu;0.713,0.759,0.824,0.847,0.811,0.838,0.779,0.819,(3.1221)+(-0.0712)Asn+(0.0081)Gln+(-0.0044)Ala+(-0.0767)Cit+(0.0014)Arg+(-0.1160)Met;0.713,0.756,0.774,0.796,0.792,0.819,0.647,0.764,(4.7474)+(0.0245)Thr+(-0.0043)Ala+(-0.0674)Cit+(-0.0048)Arg+(-0.0023)Val+(-0.2062)Met;0.713,0.755,0.753,0.771,0.777,0.782,0.633,0.741,(1.9622)+(0.0005)Gly+(0.0046)Gln+(0.0202)Thr+(-0.0816)Cit+(-0.2951)Met+(0.0069)Leu;0.713,0.752,0.796,0.806,0.758,0.815,0.836,0.804,(1.7483)+(-0.1109)Asn+(0.0043)Gln+(-0.0101)Ala+(0.0082)Pro+(-0.0103)Lys+(0.0499)Phe;0.713,0.758,0.758,0.747,0.702,0.825,0.859,0.783,(1.5127)+(0.0014)Gln+(-0.0022)Thr+(-0.0113)Ala+(0.0139)Orn+(-0.0219)Lys+(0.0538)Ile;0.713,0.756,0.774,0.795,0.789,0.819,0.654,0.764,(4.641

5)+(0.0234)Thr+(-0.0044)Ala+(-0.0707)Cit+(-0.0020)Tyr+(-0.0020)Val+(-0.2057)Met;0.713,0.755,0.752,0.766,0.693,0.804,0.802,0.766,(3.2104)+(-0.0824)Asn+(0.0010)Gly+(-0.0088)Ala+(-0.0387)Tyr+(0.0162)Orn+(0.0467)Ile;0.713,0.755,0.772,0.782,0.791,0.743,0.727,0.761,(2.1596)+(-0.0388)Asn+(-0.0647)Cit+(0.0045)Arg+(-0.2261)Met+(-0.0080)Leu+(0.0972)Phe;0.713,0.750,0.738,0.769,0.718,0.729,0.705,0.730,(2.8021)+(-0.0907)Asn+(0.0004)Gly+(-0.0620)Tyr+(0.0270)Orn+(-0.0121)Lys+(0.0675)Phe;0.713,0.763,0.781,0.787,0.772,0.821,0.758,0.785,(4.8554)+(-0.0088)Ala+(-0.0733)Cit+(0.0054)Arg+(0.0157)Pro+(-0.0069)Tyr+(-0.1519)Met;0.713,0.761,0.723,0.718,0.726,0.781,0.688,0.728,(0.9931)+(0.0479)Ser+(-0.1485)Asn+(-0.0056)Gly+(-0.0187)Arg+(0.0023)Pro+(0.0155)Orn;0.713,0.756,0.755,0.769,0.738,0.798,0.721,0.757,(3.0100)+(-0.0002)Gly+(0.0157)Thr+(-0.0081)Ala+(0.0128)Pro+(-0.2515)Met+(0.0038)Leu;0.713,0.755,0.737,0.763,0.672,0.788,0.769,0.748,(1.2521)+(-0.0103)Ala+(-0.0212)Arg+(-0.0548)Tyr+(0.0140)Orn+(0.0398)Ile+(0.0434)Phe;0.713,0.761,0.785,0.794,0.806,0.829,0.691,0.780,(3.1380)+(-0.1276)Asn+(0.0059)Gln+(-0.1025)Cit+(-0.0077)Arg+(0.0471)Orn+(-0.0136)Leu;0.713,0.758,0.753,0.777,0.731,0.806,0.701,0.754,(3.6204)+(0.0171)Thr+(-0.0075)Ala+(0.0137)Pro+(-0.0138)Tyr+(-0.2168)Met+(-0.0036)Lys;0.713,0.754,0.731,0.723,0.706,0.823,0.740,0.748,(0.9765)+(0.0302)Ser+(-0.0036)Gly+(-0.0130)Ala+(-0.0875)Cit+(0.0127)Pro+(-0.0005)Leu;0.713,0.757,0.823,0.855,0.779,0.816,0.836,0.822,(1.9275)+(-0.1389)Asn+(0.0053)Gln+(-0.0051)Ala+(-0.0160)Val+(-0.0015)Lys+(0.0776)Phe;0.713,0.754,0.796,0.814,0.790,0.820,0.744,0.792,(2.1633)+(0.0017)Gly+(0.0059)G

ln+(-0.0059)Ala+(-0.0821)Cit+(-0.1869)Met+(0.0112)Leu;0.713,0.756,0.785,0.840,0.750,0.731,0.752,0.768,(1.3148)+(-0.1273)Asn+(-0.0002)Gly+(0.0057)Gln+(-0.0623)Tyr+(-0.0184)Leu+(0.0888)Phe;0.712,0.760,0.703,0.730,0.686,0.770,0.617,0.701,(1.9555)+(0.0389)Ser+(-0.1290)Asn+(0.0014

)Thr+(0.0074)Pro+(-0.0362)Tyr+(-0.0070)Lys;0.712,0.755,0.727,0.728,0.725,0.754,0.708,0.729,(2.1120)+(0.0017)Gly+(-0.0112)Arg+(-0.0157)Tyr+(-0.2475)Met+(0.0114)Orn+(0.0513)Ile;0.712,0.757,0.760,0.778,0.742,0.806,0.717,0.760,(3.4779)+(-0.0004)Gly+(0.0166)Thr+(-0.0077)Ala+(0.0131)Pro+(-0.2329)Met+(-0.0039)Lys;0.712,0.757,0.774,0.793,0.792,0.822,0.653,0.765,(4.7440)+(0.0242)Thr+(-0.0047)Ala+(-0.0729)Cit+(-0.0028)Tyr+(-0.1984)Met+(-0.0031)Lys;0.712,0.764,0.687,0.727,0.641,0.693,0.672,0.683,(-0.7771)+(0.0405)Ser+(-0.0101)Gly+(-0.0019)Gln+(-0.0830)Tyr+(-0.0169)Leu+(0.0836)Phe;0.712,0.761,0.742,0.742,0.737,0.751,0.749,0.745,(2.9052)+(-0.0185)Asn+(-0.0071)Arg+(0.0035)Pro+(-0.0190)Tyr+(-0.2258)Met+(0.0487)Ile;0.712,0.758,0.782,0.809,0.764,0.817,0.727,0.779,(4.9665)+(-0.0708)Asn+(-0.0029)Ala+(-0.0121)Tyr+(-0.0107)Val+(-0.0802)Met+(0.0394)Orn;0.712,0.767,0.728,0.743,0.736,0.809,0.613,0.725,(1.5946)+(0.0393)Ser+(-0.1304)Asn+(-0.0150)Arg+(0.0245)Orn+(-0.0085)Lys+(-0.0046)Leu;0.712,0.765,0.757,0.738,0.778,0.782,0.741,0.760,(1.0871)+(-0.1513)Asn+(0.0056)Gln+(-0.1072)Cit+(0.0313)Orn+(0.0134)Ile+(0.0210)Phe;0.712,0.758,0.748,0.768,0.682,0.803,0.792,0.761,(3.4098)+(-0.0935)Asn+(0.0006)Gly+(0.0116)Thr+(-0.0090)Ala+(-0.0424)Tyr+(0.0502)Ile;0.712,0.755,0.721,0.721,0.713,0.746,0.721,0.725,(1.7920)+(0.0014)Gly+(0.0029)Pro+(-0.0180)Tyr+(-0.2686)Met+(0.0072)Orn+(0.0495)Ile;0.712,0.752,0.791,0.808,0.796,0.802,0.729,0.784,(2.5675)+(-0.0667)Asn+(0.0078)Gln+(-0.0752)Cit+(0.0072)Pro+(-0.1879)Met+(-0.0008)Leu;0.712,0.751,0.731,0.726,0.748,0.815,0.650,0.735,(1.4161)+(0.0291)Ser+(-0.0067)Gly+(-0.0779)Cit+(-0.0219)Arg+(-0.0147)Val+(0.0435)Orn;0.712,0.759,0.760,0.780,0.751,0.812,0.689,0.758,(3.7424)+(0.0199)Thr+(-0.0075)Ala+(-0.0144)Arg+(0.0131)Pro+(-0.2317)Met+(-0.0014)Lys;0.712,0.756,0.735,0.767,0.700,0.812,0.669,0.737,(-1.1745)+(0.0308)Ser+(-0.0014)Gln+(-0.0091)Ala+(-0.0282)Arg+(-0.0115)Leu+(0.0619)Phe;0.712,0.750,0.756,0.748,0.759

,0.827,0.719,0.764,(2.3595)+(0.0018)Gly+(0.0011)Gln+(-0.0044)Thr+(-0.0114)Ala+(-0.1249)Cit+(0.0542)Orn;0.712,0.765,0.738,0.760,0.700,0.828,0.699,0.746,(-1.3119)+(0.0351)Ser+(-0.0034)Thr+(-0.0084)Ala+(-0.0197)Arg+(-0.0156)Lys+(0.0596)Phe;0.712,0.763,0.740,0.763,0.708,0.827,0.686,0.746,(-1.1898)+(0.0336)Ser+(-0.0083)Ala+(-0.0217)Arg+(-0.0151)Lys+(-0.0047)Leu+(0.0633)Phe;0.712,0.761,0.745,0.749,0.686,0.809,0.810,0.763,(2.8635)+(-0.0009)Gly+(-0.0093)Ala+(-0.0387)Tyr+(0.0202)Orn+(-0.0182)Lys+(0.0555)Ile;0.712,0.758,0.784,0.789,0.723,0.841,0.860,0.803,(1.6119)+(-0.1186)Asn+(0.0012)Gly+(0.0035)Gln+(0.0032)Thr+(-0.0106)Ala+(0.0431)Ile;0.712,0.758,0.709,0.743,0.680,0.758,0.643,0.706,(1.1044)+(0.0375)Ser+(-0.1490)Asn+(0.0022)Gln+(-0.0016)Thr+(0.0067)Pro+(-0.0405)Tyr;0.712,0.761,0.747,0.747,0.737,0.796,0.733,0.753,(1.3599)+(0.0476)Ser+(-0.1493)Asn+(-0.0062)Gly+(-0.0066)Thr+(0.0213)Orn+(-0.0097)Leu;0.712,0.760,0.733,0.732,0.730,0.787,0.702,0.738,(1.6814)+(0.0503)Ser+(-0.1238)Asn+(-0.0064)Gly+(-0.0126)Arg+(0.0048)Pro+(-0.0100)Lys;0.712,0.754,0.804,0.823,0.783,0.836,0.776,0.804,(2.5742)+(-0.0661)Asn+(0.0052)Gln+(-0.0046)Ala+(-0.1409)Met+(0.0255)Orn+(-0.0054)Lys;0.712,0.760,0.735,0.763,0.659,0.827,0.754,0.751,(1.7476)+(0.0343)Ser+(-0.0095)Gly+(-0.0083)Ala+(0.0147)Pro+(-0.0441)Tyr+(-0.0086)Val;0.712,0.754,0.749,0.783,0.671,0.790,0.791,0.759,(0.5053)+(0.0023)Gln+(-0.0104)Ala+(-0.0221)Arg+(-0.0550)Tyr+(0.0433)Ile+(0.0452)Phe;0.712,0.764,0.809,0.828,0.776,0.835,0.808,0.812,(2.4904)+(-0.0005)Gly+(0.0054)Gln+(-0.0087)Arg+(-0.0355)Val+(-0.2453)Met+(0.0601)Leu;0.712,0.758,0.798,0.832,0.790,0.827,0.701,0.787,(2.6774)+(-0.0713)Asn+(0.0060)Gln+(0.0220)Thr+(-0.0038)Ala+(-0.0159)Arg+(-0.1949)Met;0.712,0.761,0.769,0.799,0.778,0.823,0.628,0.757,(5.0304)+(-0.0727)Asn+(0.0199)Thr+(-0.0154)Arg+(-0.0132)Val+(-0.1531)Met+(0.0329)Orn;0.712,0.760,0.731,0.731,0.727,0.750,0.724,0.733,(2.4300)+(-0.0109)Arg+(0.0031)Pro+(-0.0199)Tyr+(-0.243

9)Met+(0.0124)Orn+(0.0465)Ile;0.712,0.761,0.723,0.740,0.733,0.800,0.601,0.718,(1.5374)+(0.0386)Ser+(-0.1440)Asn+(-0.0198)Arg+(0.0047)Pro+(0.0202)Orn+(-0.0119)Leu;0.712,0.763,0.663,0.631,0.620,0.769,0.760,0.695,(-0.4637)+(0.0319)Ser+(-0.0077)Gly+(-0.0033)Gln+(-0.0011)Orn+(0.1451)Ile+(-0.0875)Leu;0.712,0.761,0.761,0.791,0.767,0.799,0.641,0.750,(5.2118)+(-0.0618)Asn+(0.0242)Thr+(-0.0131)Arg+(0.0105)Pro+(-0.0127)Val+(-0.1959)Met;0.712,0.756,0.813,0.834,0.789,0.844,0.784,0.813,(2.9764)+(-0.1097)Asn+(0.0025)Gly+(0.0070)Gln+(-0.0071)Ala+(-0.0855)Cit+(0.0037)Leu;0.712,0.756,0.768,0.791,0.741,0.814,0.727,0.768,(2.3217)+(0.0033)Gln+(0.0143)Thr+(-0.0075)Ala+(0.0127)Pro+(-0.2452)Met+(-0.0051)Lys;0.712,0.759,0.710,0.716,0.717,0.779,0.627,0.710,(0.5926)+(0.0425)Ser+(-0.1440)Asn+(-0.0060)Thr+(-0.0175)Arg+(0.0033)Pro+(0.0176)Orn;0.712,0.758,0.787,0.837,0.755,0.745,0.753,0.772,(1.4239)+(-0.1200)Asn+(0.0059)Gln+(-0.0604)Tyr+(-0.0052)Lys+(-0.0158)Leu+(0.0884)Phe;0.712,0.755,0.792,0.817,0.754,0.814,0.784,0.793,(2.8288)+(-0.0589)Asn+(0.0053)Gln+(-0.0070)Ala+(0.0127)Pro+(-0.0149)Tyr+(-0.1498)Met;0.712,0.764,0.692,0.677,0.635,0.778,0.790,0.720,(-1.1466)+(0.0283)Ser+(-0.0085)Gly+(-0.0068)Pro+(-0.0024)Orn+(0.1551)Ile+(-0.0900)Leu;0.712,0.753,0.763,0.810,0.738,0.739,0.708,0.749,(1.2150)+(-0.1174)Asn+(0.0057)Gln+(-0.0196)Arg+(-0.0667)Tyr+(0.0191)Orn+(0.0638)Phe;0.712,0.761,0.645,0.636,0.622,0.748,0.643,0.662,(-0.8442)+(0.0342)Ser+(-0.0090)Thr+(-0.0470)Tyr+(0.0140)Orn+(-0.0241)Lys+(0.0513)Ile;0.712,0.759,0.760,0.755,0.706,0.825,0.842,0.782,(1.6326)+(0.0023)Gln+(-0.0123)Ala+(-0.0149)Arg+(0.0056)Pro+(-0.0174)Lys+(0.0519)Ile;0.712,0.755,0.783,0.789,0.760,0.816,0.794,0.790,(2.5180)+(-0.0963)Asn+(0.0016)Gly+(-0.0083)Ala+(0.0238)Orn+(-0.0114)Lys+(0.0521)Phe;0.712,0.759,0.729,0.730,0.726,0.754,0.718,0.732,(2.1947)+(0.0021)Gly+(-0.0095)Arg+(0.0033)Pro+(-0.0150)Tyr+(-0.2564)Met+(0.0518)Ile;0.712,0.758,0.745,0.753,0.679,0.817,0.809,0.76

5,(2.1262)+(0.0017)Gln+(-0.0095)Ala+(-0.0388)Tyr+(0.0172)Orn+(-0.0194)Lys+(0.0562)Ile;0.712,0.757,0.760,0.777,0.741,0.824,0.709,0.763,(2.3061)+(0.0353)Ser+(-0.0063)Gly+(-0.0061)Ala+(-0.0617)Cit+(-0.0102)Arg+(-0.0293)Tyr;0.712,0.760,0.764,0.792,0.753,0.818,0.673,0.759,(2.6574)+(0.0038)Gln+(-0.0177)Arg+(0.0097)Pro+(-0.0129)Val+(-0.2196)Met+(0.0290)Orn;0.712,0.758,0.805,0.820,0.796,0.829,0.768,0.803,(2.4691)+(0.0067)Gln+(-0.0058)Ala+(-0.0798)Cit+(-0.1710)Met+(-0.0062)Lys+(0.0135)Leu;0.712,0.758,0.824,0.851,0.808,0.839,0.776,0.818,(3.2009)+(-0.0716)Asn+(0.0082)Gln+(-0.0043)Ala+(-0.0753)Cit+(-0.0050)Tyr+(-0.1066)Met;0.712,0.755,0.632,0.653,0.588,0.656,0.651,0.637,(-1.0315)+(0.0432)Ser+(-0.0101)Gly+(-0.0031)Gln+(0.0052)Pro+(-0.0930)Tyr+(0.0609)Phe;0.712,0.760,0.720,0.719,0.665,0.797,0.782,0.741,(-0.9193)+(0.0416)Ser+(-0.0075)Gly+(-0.0113)Ala+(0.0097)Pro+(-0.0229)Lys+(0.0472)Phe;0.712,0.754,0.818,0.850,0.789,0.845,0.773,0.814,(3.4484)+(-0.1024)Asn+(0.0015)Gly+(0.0076)Gln+(-0.0055)Ala+(-0.0794)Cit+(-0.0194)Tyr;0.712,0.753,0.814,0.842,0.789,0.853,0.764,0.812,(4.0357)+(-0.1307)Asn+(0.0067)Gln+(0.0135)Thr+(-0.0055)Ala+(-0.0753)Cit+(-0.0069)Val;0.712,0.763,0.720,0.732,0.688,0.831,0.677,0.732,(0.5545)+(0.0294)Ser+(-0.0102)Ala+(-0.0212)Arg+(0.0105)Pro+(0.0198)Orn+(-0.0152)Lys;0.712,0.755,0.754,0.789,0.744,0.762,0.677,0.743,(2.4241)+(-0.0796)Asn+(0.0051)Gln+(0.0178)Thr+(0.0068)Pro+(-0.0230)Tyr+(-0.2149)Met;0.712,0.758,0.773,0.812,0.742,0.820,0.702,0.769,(5.3065)+(-0.1126)Asn+(0.0117)Thr+(-0.0036)Ala+(-0.0284)Tyr+(-0.0126)Val+(0.0364)Orn;0.712,0.756,0.784,0.798,0.762,0.822,0.770,0.788,(5.7112)+(-0.0596)Asn+(-0.0091)Ala+(-0.0684)Cit+(0.0140)Pro+(-0.0247)Tyr+(-0.0007)Lys;0.712,0.753,0.739,0.790,0.715,0.690,0.694,0.722,(2.7312)+(-0.1050)Asn+(0.0013)Gly+(0.0073)Pro+(-0.0645)Tyr+(-0.0210)Leu+(0.0896)Phe;0.712,0.759,0.796,0.838,0.781,0.822,0.697,0.784,(4.2604)+(-0.1376)Asn+(0.0070)Gln+(0.0155)Thr+(-0.0689)Cit+(-0.0312)Ty

r+(-0.0088)Val;0.712,0.762,0.742,0.735,0.732,0.804,0.738,0.752,(0.858
2)+(0.0476)Ser+(-0.1454)Asn+(-0.0073)Gly+(0.0026)Gln+(0.0200)Orn+(-0.
0144)Lys;0.712,0.760,0.696,0.734,0.624,0.772,0.690,0.705,(-1.2319)+(0
.0319)Ser+(-0.0024)Gln+(-0.0074)Thr+(-0.0077)Ala+(-0.0554)Tyr+(0.0718
)Phe;0.712,0.756,0.750,0.765,0.730,0.805,0.716,0.754,(2.7921)+(0.0121
)Thr+(-0.0082)Ala+(0.0123)Pro+(-0.2453)Met+(0.0147)Orn+(0.0014)Leu;0.
712,0.755,0.692,0.710,0.705,0.788,0.551,0.689,(1.7232)+(0.0308)Ser+(-
0.0703)Cit+(-0.0075)Arg+(0.0079)Pro+(-0.0412)Tyr+(-0.0134)Lys;0.712,0
.766,0.733,0.724,0.727,0.799,0.725,0.744,(1.3470)+(0.0498)Ser+(-0.130
8)Asn+(-0.0068)Gly+(-0.0035)Thr+(0.0234)Orn+(-0.0132)Lys;0.712,0.759,
0.821,0.840,0.761,0.858,0.873,0.833,(3.8207)+(-0.1378)Asn+(0.0060)Gln
+(-0.0044)Ala+(-0.0380)Val+(-0.0019)Lys+(0.0579)Leu;0.712,0.753,0.767
,0.791,0.763,0.772,0.706,0.758,(1.9898)+(-0.0748)Asn+(-0.0007)Gly+(0.
0052)Gln+(0.0169)Thr+(0.0056)Pro+(-0.2514)Met;0.712,0.760,0.803,0.834
,0.791,0.837,0.720,0.796,(3.3529)+(-0.0833)Asn+(0.0060)Gln+(-0.0148)A
rg+(-0.0127)Val+(-0.1222)Met+(0.0347)Orn;0.712,0.762,0.710,0.689,0.62
8,0.808,0.863,0.747,(-2.1860)+(0.0423)Ser+(-0.0056)Gly+(-0.0212)Thr+(
-0.0126)Ala+(0.0056)Orn+(0.0525)Ile;0.712,0.757,0.757,0.745,0.701,0.8
26,0.858,0.782,(1.5720)+(-0.0006)Gly+(0.0013)Gln+(-0.0114)Ala+(0.0132
)Orn+(-0.0224)Lys+(0.0534)Ile;0.712,0.757,0.735,0.750,0.746,0.708,0.6
92,0.724,(1.5120)+(-0.0647)Cit+(0.0027)Arg+(0.0083)Pro+(-0.0316)Tyr+(
-0.2638)Met+(0.0975)Phe;0.712,0.755,0.783,0.797,0.761,0.820,0.770,0.7
87,(5.6375)+(-0.0607)Asn+(-0.0092)Ala+(-0.0689)Cit+(0.0139)Pro+(-0.02
55)Tyr+(0.0010)Leu;0.712,0.763,0.742,0.779,0.719,0.801,0.651,0.737,(1
.4850)+(0.0353)Ser+(-0.1412)Asn+(0.0030)Gln+(0.0028)Thr+(-0.0289)Tyr+
(-0.0067)Lys;0.712,0.757,0.742,0.745,0.777,0.797,0.622,0.735,(3.6499)
+(0.0015)Gly+(-0.0999)Cit+(-0.0172)Tyr+(-0.1723)Met+(0.0491)Orn+(-0.0
012)Leu;0.712,0.759,0.671,0.721,0.625,0.717,0.600,0.666,(-0.8307)+(0.

0304)Ser+(-0.0029)Gln+(-0.0057)Thr+(-0.0654)Tyr+(-0.0144)Val+(0.0885)Phe;0.711,0.762,0.717,0.703,0.768,0.766,0.613,0.712,(2.0049)+(-0.1334)Asn+(0.0058)Gly+(-0.1083)Cit+(-0.0033)Arg+(0.0405)Orn+(0.0380)Phe;0.711,0.765,0.661,0.620,0.685,0.789,0.629,0.681,(-0.3175)+(0.0358)Ser+(-0.0858)Cit+(-0.0037)Arg+(-0.0036)Pro+(-0.0291)Lys+(0.0583)Ile;0.711,0.759,0.756,0.770,0.740,0.803,0.722,0.758,(3.2846)+(0.0173)Thr+(-0.0080)Ala+(0.0125)Pro+(-0.2408)Met+(-0.0057)Lys+(0.0066)Leu;0.711,0.747,0.764,0.756,0.766,0.828,0.734,0.771,(2.5650)+(0.0014)Gln+(-0.0038)Thr+(-0.0111)Ala+(-0.1221)Cit+(0.0543)Orn+(-0.0029)Leu;0.711,0.762,0.756,0.776,0.721,0.801,0.744,0.761,(5.8463)+(-0.1434)Asn+(0.0235)Thr+(-0.0275)Tyr+(-0.0420)Val+(-0.0043)Lys+(0.0630)Leu;0.711,0.756,0.754,0.758,0.776,0.805,0.662,0.750,(2.1795)+(-0.1450)Asn+(0.0034)Gly+(0.0050)Gln+(-0.1119)Cit+(-0.0005)Pro+(0.0408)Orn;0.711,0.758,0.746,0.741,0.684,0.851,0.812,0.772,(1.2298)+(0.0396)Ser+(-0.0079)Gly+(-0.0063)Ala+(-0.0285)Val+(-0.0178)Lys+(0.0493)Leu;0.711,0.759,0.744,0.767,0.717,0.802,0.698,0.746,(3.0703)+(0.0125)Thr+(-0.0079)Ala+(0.0130)Pro+(-0.0168)Tyr+(-0.2214)Met+(0.0167)Orn;0.711,0.759,0.806,0.832,0.787,0.833,0.754,0.802,(3.2775)+(-0.0893)Asn+(-0.0010)Gly+(0.0054)Gln+(-0.0127)Val+(-0.1346)Met+(0.0317)Orn;0.711,0.757,0.801,0.808,0.773,0.824,0.823,0.807,(1.6425)+(-0.1119)Asn+(0.0042)Gln+(-0.0083)Ala+(0.0208)Orn+(-0.0126)Lys+(0.0494)Phe;0.711,0.767,0.721,0.731,0.729,0.801,0.619,0.720,(1.2730)+(0.0408)Ser+(-0.1286)Asn+(-0.0020)Thr+(-0.0138)Arg+(0.0238)Orn+(-0.0099)Lys;0.711,0.755,0.794,0.810,0.799,0.806,0.733,0.787,(2.6653)+(-0.0645)Asn+(0.0079)Gln+(-0.0749)Cit+(0.0072)Pro+(-0.1816)Met+(-0.0027)Lys;0.711,0.754,0.712,0.705,0.749,0.809,0.586,0.712,(0.1918)+(0.0289)Ser+(-0.0176)Thr+(-0.0971)Cit+(-0.0140)Arg+(0.0446)Orn+(-0.0118)Leu;0.711,0.764,0.721,0.706,0.719,0.791,0.713,0.732,(1.2853)+(0.0493)Ser+(-0.1361)Asn+(-0.0068)Gly

+(0.0029)Pro+(0.0203)Orn+(-0.0147)Lys;0.711,0.762,0.697,0.741,0.647,0.700,0.681,0.692,(-1.1824)+(0.0365)Ser+(-0.0113)Gly+(-0.0880)Tyr+(0.0157)Orn+(-0.0202)Leu+(0.0802)Phe;0.711,0.756,0.743,0.741,0.786,0.798,0.621,0.737,(3.3627)+(0.0021)Gly+(-0.0985)Cit+(-0.0018)Arg+(-0.1994)Met+(0.0465)Orn+(-0.0013)Leu;0.711,0.751,0.718,0.740,0.720,0.796,0.603,0.715,(3.5508)+(-0.0015)Thr+(-0.0994)Cit+(0.0062)Pro+(-0.0523)Tyr+(-0.0126)Val+(0.0550)Orn;0.711,0.759,0.743,0.744,0.737,0.769,0.736,0.747,(4.5393)+(-0.0575)Asn+(-0.0676)Cit+(0.0010)Pro+(-0.0411)Tyr+(-0.0110)Lys+(0.0465)Ile;0.711,0.759,0.747,0.764,0.687,0.802,0.788,0.760,(3.4135)+(-0.0945)Asn+(0.0099)Thr+(-0.0089)Ala+(-0.0443)Tyr+(0.0129)Orn+(0.0460)Ile;0.711,0.759,0.746,0.738,0.784,0.799,0.649,0.743,(3.6290)+(-0.0927)Cit+(-0.0025)Arg+(0.0063)Pro+(-0.2123)Met+(0.0444)Orn+(-0.0047)Leu;0.711,0.758,0.792,0.793,0.777,0.824,0.796,0.798,(4.9014)+(-0.0038)Ala+(-0.0499)Cit+(-0.0298)Val+(-0.1791)Met+(0.0010)Lys+(0.0568)Leu;0.711,0.758,0.770,0.779,0.791,0.822,0.665,0.764,(2.9302)+(-0.1374)Asn+(0.0025)Gly+(0.0051)Gln+(-0.1098)Cit+(0.0469)Orn+(-0.0125)Leu;0.711,0.754,0.743,0.763,0.743,0.802,0.644,0.738,(3.4790)+(-0.0024)Gly+(0.0014)Gln+(-0.1004)Cit+(-0.0500)Tyr+(-0.0115)Val+(0.0562)Orn;0.711,0.762,0.738,0.731,0.732,0.802,0.719,0.746,(1.6521)+(0.0481)Ser+(-0.1352)Asn+(-0.0069)Gly+(0.0231)Orn+(-0.0125)Lys+(-0.0038)Leu;0.711,0.762,0.733,0.749,0.733,0.793,0.646,0.730,(0.2310)+(0.0401)Ser+(-0.1524)Asn+(0.0025)Gln+(-0.0053)Thr+(-0.0182)Arg+(0.0176)Orn;0.711,0.760,0.756,0.782,0.727,0.796,0.719,0.756,(5.9842)+(-0.1400)Asn+(0.0249)Thr+(-0.0114)Arg+(-0.0281)Tyr+(-0.0418)Val+(0.0609)Leu;0.711,0.762,0.784,0.794,0.757,0.815,0.791,0.789,(5.0535)+(-0.0676)Asn+(0.0021)Gly+(0.0014)Arg+(-0.0395)Val+(-0.1596)Met+(0.0668)Leu;0.711,0.755,0.761,0.804,0.725,0.730,0.744,0.751,(0.9418)+(-0.1142)Asn+(0.0060)Gln+(-0.0182)Arg+(-0.0670)Tyr+(0.0228)Ile+(0.0552)Phe;0.711,0.762,0.740,0.769,0.748,0.813,0

.598,0.732,(3.8569)+(0.0174)Thr+(-0.0198)Arg+(0.0098)Pro+(-0.0136)Val+(-0.2430)Met+(0.0266)Orn;0.711,0.755,0.789,0.812,0.758,0.819,0.769,0.790,(2.1890)+(0.0046)Gln+(-0.0076)Ala+(-0.0122)Arg+(0.0131)Pro+(-0.2098)Met+(0.0022)Leu;0.711,0.753,0.738,0.736,0.708,0.828,0.741,0.753,(1.4518)+(0.0303)Ser+(-0.0042)Gly+(-0.0117)Ala+(-0.0791)Cit+(0.0136)Pro+(-0.0059)Val;0.711,0.750,0.741,0.749,0.712,0.780,0.755,0.749,(5.1836)+(-0.1647)Asn+(0.0010)Gly+(0.0169)Thr+(0.0064)Pro+(-0.0466)Val+(0.0605)Leu;0.711,0.761,0.759,0.758,0.788,0.804,0.668,0.755,(2.0923)+(0.0044)Gln+(-0.0932)Cit+(-0.0061)Arg+(0.0058)Pro+(-0.2422)Met+(0.0372)Orn;0.711,0.758,0.669,0.698,0.615,0.685,0.694,0.673,(-1.3083)+(0.0452)Ser+(-0.0093)Gly+(-0.0021)Gln+(-0.0087)Thr+(-0.0804)Tyr+(0.0643)Phe;0.711,0.755,0.729,0.721,0.770,0.792,0.617,0.725,(3.4130)+(-0.1180)Asn+(0.0044)Gly+(-0.1071)Cit+(-0.0028)Arg+(0.0004)Pro+(0.0456)Orn;0.711,0.753,0.776,0.810,0.736,0.778,0.766,0.772,(2.8253)+(-0.0863)Asn+(0.0016)Gly+(-0.0061)Ala+(-0.0462)Tyr+(-0.0055)Lys+(0.0805)Phe;0.711,0.759,0.669,0.721,0.612,0.724,0.614,0.668,(-1.2702)+(0.0198)Ser+(-0.0734)Tyr+(-0.0272)Val+(0.0182)Orn+(0.0205)Leu+(0.0732)Phe;0.711,0.756,0.790,0.811,0.789,0.804,0.726,0.783,(2.8375)+(-0.0692)Asn+(0.0079)Gln+(-0.0742)Cit+(0.0079)Pro+(-0.0174)Tyr+(-0.1603)Met;0.711,0.759,0.720,0.723,0.658,0.836,0.757,0.744,(-0.9233)+(0.0313)Ser+(-0.0079)Ala+(-0.0279)Val+(-0.0201)Lys+(0.0406)Leu+(0.0555)Phe;0.711,0.763,0.774,0.773,0.778,0.814,0.740,0.776,(4.1435)+(0.0032)Gly+(-0.0524)Cit+(0.0140)Tyr+(-0.0339)Val+(-0.2356)Met+(0.0605)Leu;0.711,0.758,0.738,0.737,0.767,0.787,0.644,0.734,(3.7991)+(-0.0941)Cit+(-0.0015)Arg+(0.0068)Pro+(-0.0242)Tyr+(-0.1858)Met+(0.0458)Orn;0.711,0.755,0.787,0.817,0.768,0.766,0.765,0.779,(1.9094)+(-0.1827)Asn+(0.0010)Gly+(0.0043)Gln+(0.0132)Thr+(-0.0219)Val+(0.0775)Phe;0.711,0.749,0.772,0.788,0.736,0.803,0.787,0.778,(2.2487)+(-0.0999)Asn+(0.0030)Gly+(-0.0107)Ala+(-0.0121)Arg+(0.0093)

Pro+(0.0513)Phe;0.711,0.758,0.666,0.694,0.605,0.677,0.713,0.672,(-1.9087)+(0.0444)Ser+(-0.0101)Gly+(-0.0120)Thr+(0.0055)Pro+(-0.0858)Tyr+(0.0579)Phe;0.711,0.759,0.753,0.787,0.745,0.782,0.654,0.742,(6.1864)+(-0.1081)Asn+(0.0172)Thr+(-0.0577)Cit+(0.0093)Pro+(-0.0374)Tyr+(-0.0114)Val;0.711,0.757,0.794,0.834,0.760,0.817,0.745,0.789,(4.0842)+(-0.1219)Asn+(-0.0019)Gly+(0.0050)Gln+(-0.0326)Tyr+(-0.0144)Val+(0.0361)Orn;0.711,0.753,0.759,0.769,0.733,0.809,0.749,0.765,(2.9810)+(0.0003)Gly+(-0.0082)Ala+(0.0128)Pro+(-0.2068)Met+(0.0208)Orn+(-0.0001)Leu;0.711,0.755,0.728,0.746,0.701,0.732,0.731,0.728,(2.7185)+(-0.0814)Asn+(-0.0636)Tyr+(0.0214)Orn+(-0.0156)Lys+(0.0272)Ile+(0.0535)Phe;0.711,0.760,0.668,0.646,0.612,0.747,0.786,0.698,(-2.5096)+(0.0290)Ser+(-0.0086)Gly+(-0.0090)Orn+(0.1473)Ile+(-0.0955)Leu+(0.0318)Phe;0.711,0.763,0.771,0.774,0.770,0.808,0.741,0.773,(4.2321)+(0.0028)Gly+(-0.0568)Cit+(0.0060)Arg+(-0.0327)Val+(-0.2204)Met+(0.0593)Leu;0.711,0.760,0.733,0.755,0.756,0.731,0.632,0.718,(0.6837)+(0.0053)Gly+(-0.0773)Cit+(0.0034)Arg+(-0.0209)Tyr+(-0.2676)Met+(0.1078)Phe;0.711,0.758,0.790,0.799,0.757,0.835,0.803,0.799,(3.9479)+(0.0012)Gly+(-0.0032)Ala+(-0.0351)Val+(-0.2068)Met+(0.0006)Lys+(0.0638)Leu;0.711,0.754,0.752,0.752,0.721,0.810,0.774,0.764,(5.1115)+(-0.1388)Asn+(0.0055)Pro+(-0.0460)Val+(0.0394)Orn+(-0.0036)Lys+(0.0568)Leu;0.711,0.752,0.716,0.713,0.666,0.768,0.792,0.735,(0.8375)+(-0.0004)Gly+(0.0006)Gln+(-0.0173)Thr+(0.0099)Orn+(0.1528)Ile+(-0.0930)Leu;0.711,0.750,0.734,0.742,0.702,0.799,0.735,0.744,(-0.6490)+(0.0306)Ser+(-0.0034)Gly+(-0.0097)Ala+(-0.0804)Cit+(-0.0083)Val+(0.0621)Phe;0.711,0.757,0.694,0.740,0.680,0.800,0.523,0.686,(1.5362)+(0.0228)Ser+(-0.0297)Arg+(0.0085)Pro+(-0.0464)Tyr+(-0.0137)Val+(0.0267)Orn;0.711,0.757,0.761,0.773,0.769,0.748,0.722,0.753,(3.8380)+(-0.1546)Asn+(0.0163)Thr+(-0.0595)Cit+(0.0050)Pro+(-0.0208)Val+(0.0804)Phe;0.711,0.753,0.725,0.717,0.766,0.789,0.616,0.722,(3.3738)+(-0.1

259)Asn+(0.0043)Gly+(0.0029)Thr+(-0.1092)Cit+(0.0001)Pro+(0.0445)Orn;0.711,0.753,0.733,0.759,0.695,0.773,0.713,0.735,(1.8647)+(0.0024)Gly+(-0.0116)Ala+(-0.0860)Cit+(0.0126)Pro+(-0.0535)Tyr+(0.0693)Phe;0.711,0.757,0.788,0.807,0.762,0.826,0.765,0.790,(6.2022)+(-0.0658)Asn+(-0.0079)Ala+(-0.0613)Cit+(0.0149)Pro+(-0.0207)Tyr+(-0.0065)Val;0.711,0.765,0.658,0.614,0.682,0.789,0.631,0.679,(-0.2734)+(0.0357)Ser+(-0.0002)Gln+(-0.0885)Cit+(-0.0038)Pro+(-0.0299)Lys+(0.0590)Ile;0.711,0.759,0.767,0.781,0.735,0.775,0.791,0.770,(3.3700)+(-0.1522)Asn+(0.0034)Gly+(-0.0415)Val+(-0.0005)Lys+(0.0478)Leu+(0.0691)Phe;0.711,0.760,0.758,0.763,0.783,0.809,0.656,0.753,(2.1873)+(-0.1401)Asn+(0.0033)Gly+(0.0054)Gln+(-0.1077)Cit+(-0.0067)Arg+(0.0408)Orn;0.711,0.754,0.730,0.781,0.705,0.753,0.635,0.718,(1.8666)+(-0.0204)Arg+(-0.0614)Tyr+(-0.0164)Val+(0.0366)Orn+(-0.0074)Lys+(0.0823)Phe;0.711,0.751,0.731,0.759,0.692,0.767,0.710,0.732,(2.0376)+(0.0082)Thr+(-0.0118)Ala+(-0.0852)Cit+(0.0120)Pro+(-0.0612)Tyr+(0.0684)Phe;0.711,0.759,0.756,0.746,0.694,0.824,0.863,0.782,(1.5963)+(0.0014)Gln+(-0.0015)Thr+(-0.0125)Ala+(0.0054)Pro+(-0.0204)Lys+(0.0529)Ile;0.711,0.758,0.744,0.770,0.736,0.798,0.651,0.739,(4.0730)+(-0.0144)Arg+(0.0105)Pro+(-0.0153)Tyr+(-0.0127)Val+(-0.1778)Met+(0.0346)Orn;0.711,0.757,0.786,0.787,0.728,0.842,0.860,0.805,(1.7117)+(-0.1174)Asn+(0.0035)Gln+(0.0027)Thr+(-0.0107)Ala+(0.0066)Orn+(0.0401)Ile;0.711,0.756,0.783,0.816,0.747,0.814,0.751,0.782,(1.1521)+(0.0050)Gln+(-0.0077)Ala+(-0.0848)Cit+(-0.0492)Tyr+(-0.0129)Lys+(0.0826)Phe;0.711,0.752,0.733,0.756,0.738,0.803,0.615,0.728,(3.2475)+(0.0010)Gln+(-0.0016)Thr+(-0.1028)Cit+(-0.0472)Tyr+(-0.0111)Val+(0.0562)Orn;0.711,0.753,0.776,0.790,0.752,0.810,0.763,0.779,(4.0021)+(-0.0380)Asn+(0.0017)Gly+(-0.0076)Ala+(0.0136)Pro+(-0.1579)Met+(-0.0002)Lys;0.711,0.747,0.792,0.802,0.767,0.833,0.789,0.798,(5.8537)+(-0.0782)Asn+(-0.0087)Ala+(-0.0677)Cit+(0.0047)Arg+(0.0140)Pro+(-0.0077)Val;0.711,

0.757,0.782,0.812,0.783,0.815,0.676,0.771,(4.8654)+(-0.0744)Asn+(-0.0003)Gly+(0.0227)Thr+(-0.0101)Val+(-0.1793)Met+(0.0023)Lys;0.711,0.756,0.779,0.812,0.757,0.821,0.709,0.775,(5.4535)+(-0.0833)Asn+(-0.0033)Ala+(-0.0120)Arg+(-0.0226)Tyr+(-0.0120)Val+(0.0441)Orn;0.711,0.753,0.790,0.814,0.759,0.819,0.768,0.790,(2.2790)+(-0.0002)Gly+(0.0047)Gln+(-0.0074)Ala+(-0.0123)Arg+(0.0132)Pro+(-0.2059)Met;0.710,0.759,0.704,0.737,0.684,0.760,0.622,0.700,(1.8883)+(0.0383)Ser+(-0.1377)Asn+(-0.0007)Thr+(0.0077)Pro+(-0.0382)Tyr+(-0.0042)Leu;0.710,0.763,0.770,0.763,0.792,0.792,0.728,0.769,(1.2339)+(-0.1514)Asn+(0.0058)Gln+(-0.1089)Cit+(-0.0026)Pro+(0.0367)Orn+(0.0322)Phe;0.710,0.760,0.794,0.787,0.785,0.829,0.808,0.802,(4.7559)+(-0.0041)Ala+(-0.0501)Cit+(0.0142)Tyr+(-0.0312)Val+(-0.1983)Met+(0.0592)Leu;0.710,0.757,0.721,0.753,0.667,0.819,0.674,0.728,(0.8922)+(0.0298)Ser+(-0.0048)Thr+(-0.0093)Ala+(-0.0218)Arg+(0.0138)Pro+(-0.0354)Tyr;0

.710,0.756,0.770,0.801,0.785,0.807,0.630,0.756,(2.7524)+(0.0047)Gln+(0.0198)Thr+(-0.0724)Cit+(-0.0055)Tyr+(-0.0045)Val+(-0.2504)Met;0.710,0.755,0.778,0.793,0.757,0.812,0.757,0.780,(4.1249)+(-0.0340)Asn+(0.0018)Gly+(-0.0075)Ala+(-0.0057)Arg+(0.0137)Pro+(-0.1534)Met;0.710,0.754,0.753,0.764,0.748,0.856,0.658,0.757,(2.0274)+(0.0294)Ser+(-0.0071)Ala+(-0.0773)Cit+(-0.0030)Arg+(0.0008)Val+(-0.0118)Lys;0.710,0.757,0.761,0.763,0.733,0.824,0.772,0.773,(5.0275)+(-0.1360)Asn+(0.0009)Gly+(-0.0453)Val+(0.0415)Orn+(-0.0039)Lys+(0.0594)Leu;0.710,0.754,0.728,0.750,0.674,0.823,0.715,0.740,(-1.0227)+(0.0289)Ser+(-0.0083)Ala+(-0.0274)Arg+(-0.0281)Val+(0.0310)Leu+(0.0602)Phe;0.710,0.755,0.745,0.791,0.721,0.696,0.711,0.730,(3.0182)+(-0.0962)Asn+(0.0073)Pro+(-0.0641)Tyr+(-0.0031)Lys+(-0.0194)Leu+(0.0889)Phe;0.710,0.762,0.688,0.673,0.592,0.798,0.849,0.728,(-2.9464)+(0.0368)Ser+(-0.0243)Thr+(-0.0145)Ala+(0.0072)Pro+(0.0465)Ile+(0.0156)Phe;0.710,0.759,0.763,0.788,0.748,0.857,0.

661,0.764,(1.9704)+(0.0262)Ser+(0.0018)Gln+(-0.0062)Ala+(-0.0790)Cit+(-0.0177)Tyr+(-0.0111)Lys;0.710,0.764,0.661,0.619,0.680,0.783,0.645,0.682,(-0.5732)+(0.0391)Ser+(-0.0085)Thr+(-0.0837)Cit+(-0.0018)Arg+(-0.0269)Lys+(0.0545)Ile;0.710,0.762,0.772,0.778,0.771,0.809,0.732,0.772,(4.3651)+(0.0028)Gly+(-0.0515)Cit+(-0.0322)Val+(-0.2128)Met+(0.0006)Lys+(0.0580)Leu;0.710,0.755,0.727,0.721,0.769,0.791,0.608,0.722,(3.4500)+(-0.1231)Asn+(0.0042)Gly+(0.0038)Thr+(-0.1066)Cit+(-0.0040)Arg+(0.0445)Orn;0.710,0.756,0.782,0.792,0.751,0.837,0.780,0.790,(5.5319)+(-0.0997)Asn+(0.0039)Gly+(-0.0050)Ala+(-0.0558)Cit+(-0.0309)Val+(0.0528)Leu;0.710,0.756,0.731,0.761,0.676,0.770,0.736,0.736,(1.7795)+(-0.0098)Ala+(0.0098)Pro+(-0.0578)Tyr+(0.0231)Orn+(-0.0162)Lys+(0.0634)Phe;0.710,0.753,0.770,0.787,0.737,0.815,0.766,0.776,(2.0290)+(-0.0006)Gly+(0.0030)Gln+(-0.0081)Ala+(0.0125)Pro+(-0.2237)Met+(0.0174)Orn;0.710,0.759,0.755,0.745,0.694,0.824,0.860,0.781,(1.6271)+(-0.0003)Gly+(0.0014)Gln+(-0.0126)Ala+(0.0052)Pro+(-0.0208)Lys+(0.0527)Ile;0.710,0.751,0.775,0.793,0.747,0.833,0.744,0.779,(5.2047)+(-0.0935)Asn+(-0.0068)Ala+(-0.0124)Arg+(0.0114)Pro+(-0.0153)Val+(0.0368)Orn;0.710,0.760,0.754,0.775,0.745,0.854,0.643,0.754,(2.4436)+(0.0276)Ser+(0.0019)Thr+(-0.0062)Ala+(-0.0765)Cit+(-0.0173)Tyr+(-0.0107)Lys;0.710,0.758,0.735,0.706,0.775,0.769,0.707,0.739,(2.6535)+(-0.1164)Asn+(-0.0995)Cit+(-0.0031)Arg+(0.0371)Orn+(0.0134)Ile+(0.0193)Phe;0.710,0.751,0.775,0.780,0.748,0.807,0.796,0.783,(2.5746)+(-0.0954)Asn+(-0.0109)Ala+(-0.0141)Arg+(0.0080)Pro+(0.0186)Orn+(0.0423)Phe;0.710,0.754,0.820,0.848,0.790,0.842,0.792,0.818,(3.3935)+(-0.1001)Asn+(0.0078)Gln+(-0.0060)Ala+(-0.0792)Cit+(-0.0223)Tyr+(0.0044)Leu;0.710,0.754,0.803,0.818,0.776,0.823,0.807,0.806,(1.2969)+(-0.1163)Asn+(0.0048)Gln+(-0.0088)Ala+(-0.0180)Arg+(0.0183)Orn+(0.0456)Phe;0.710,0.758,0.765,0.758,0.713,0.826,0.846,0.786,(2.6918)+(-0.1002)Asn+(0.0029)Thr+(-0.0121)Ala+(0.0062)Pro+(0.0082)

Orn+(0.0366)Ile;0.710,0.757,0.730,0.699,0.772,0.763,0.702,0.734,(2.5685)+(-0.1280)Asn+(0.0043)Thr+(-0.1025)Cit+(0.0353)Orn+(0.0130)Ile+(0.0198)Phe;0.710,0.760,0.752,0.744,0.700,0.822,0.833,0.775,(2.2297)+(0.0010)Gly+(-0.0123)Ala+(-0.0127)Arg+(0.0062)Pro+(-0.0162)Lys+(0.0525)Ile;0.710,0.753,0.784,0.823,0.746,0.764,0.772,0.776,(3.1002)+(-0.0859)Asn+(-0.0052)Ala+(-0.0480)Tyr+(-0.0027)Lys+(-0.0106)Leu+(0.0899)Phe;0.710,0.756,0.821,0.844,0.799,0.856,0.780,0.820,(3.3135)+(-0.1013)Asn+(0.0020)Gly+(0.0074)Gln+(-0.0061)Ala+(-0.0826)Cit+(-0.0044)Lys;0.710,0.764,0.708,0.713,0.718,0.794,0.608,0.709,(1.1649)+(0.0411)Ser+(-0.1319)Asn+(-0.0152)Arg+(0.0037)Pro+(0.0208)Orn+(-0.0111)Lys;0.710,0.761,0.717,0.748,0.694,0.777,0.640,0.715,(1.3559)+(0.0374)Ser+(-0.1385)Asn+(0.0025)Gln+(0.0070)Pro+(-0.0361)Tyr+(-0.0074)Lys;0.710,0.754,0.810,0.833,0.790,0.840,0.771,0.809,(3.4695)+(-0.1227)Asn+(0.0067)Gln+(0.0126)Thr+(-0.0073)Ala+(-0.0815)Cit+(-0.0040)Arg;0.710,0.753,0.774,0.787,0.751,0.808,0.765,0.778,(3.8841)+(-0.0372)Asn+(0.0017)Gly+(-0.0077)Ala+(0.0134)Pro+(-0.1631)Met+(0.0021)Leu;0.710,0.753,0.766,0.798,0.765,0.760,0.689,0.753,(3.2696)+(-0.1523)Asn+(0.0023)Gly+(0.0190)Thr+(-0.0176)Arg+(-0.0219)Val+(0.0849)Phe;0.710,0.759,0.695,0.698,0.691,0.760,0.652,0.700,(1.7696)+(0.0034)Gly+(-0.0859)Cit+(-0.0613)Tyr+(-0.0217)Lys+(0.0465)Ile+(0.0608)Phe;0.710,0.756,0.784,0.800,0.752,0.817,0.785,0.788,(2.1672)+(0.0041)Gln+(-0.0078)Ala+(0.0129)Pro+(-0.2135)Met+(-0.0047)Lys+(0.0048)Leu;0.710,0.756,0.746,0.779,0.731,0.802,0.648,0.740,(2.3806)+(0.0023)Gln+(0.0115)Thr+(0.0095)Pro+(-0.0129)Val+(-0.2696)Met+(0.0196)Orn;0.710,0.755,0.784,0.816,0.726,0.798,0.806,0.787,(4.1555)+(-0.1444)Asn+(0.0058)Gln+(0.0079)Pro+(-0.0278)Tyr+(-0.0382)Val+(0.0499)Leu;0.710,0.753,0.717,0.751,0.728,0.745,0.583,0.702,(1.7262)+(-0.0960)Cit+(-0.0118)Arg+(-0.0726)Tyr+(0.0509)Orn+(-0.0218)Leu+(0.0816)Phe;0.710,0.752,0.791,0.808,0.797,0.800,0.729,0.783,(2.5389)+(-0.0658

)Asn+(0.0079)Gln+(-0.0746)Cit+(-0.0011)Arg+(0.0071)Pro+(-0.1891)Met;0.710,0.755,0.673,0.678,0.617,0.725,0.742,0.690,(-1.2998)+(0.0433)Ser+(-0.0092)Gly+(-0.0148)Thr+(-0.0684)Tyr+(0.0098)Orn+(0.0362)Ile;0.710,0.753,0.805,0.827,0.790,0.833,0.757,0.802,(2.4600)+(-0.0624)Asn+(0.0057)Gln+(-0.0046)Ala+(-0.0138)Arg+(-0.1448)Met+(0.0254)Orn;0.710,0.762,0.746,0.750,0.740,0.788,0.716,0.749,(0.5022)+(0.0462)Ser+(-0.1584)Asn+(-0.0062)Gly+(0.0029)Gln+(-0.0198)Arg+(0.0146)Orn;0.710,0.759,0.732,0.745,0.769,0.784,0.585,0.721,(3.8506)+(0.0019)Gly+(0.0216)Thr+(-0.0762)Cit+(0.0082)Pro+(-0.2675)Met+(-0.0044)Lys;0.710,0.756,0.732,0.758,0.690,0.851,0.665,0.741,(1.0216)+(0.0241)Ser+(-0.0095)Ala+(-0.0284)Arg+(0.0118)Pro+(-0.0127)Val+(0.0229)Orn;0.710,0.758,0.702,0.678,0.669,0.812,0.757,0.729,(0.6734)+(0.0397)Ser+(-0.0098)Gly+(-0.0347)Val+(0.0283)Orn+(-0.0249)Lys+(0.0488)Leu;0.710,0.764,0.665,0.624,0.681,0.789,0.652,0.686,(-0.5040)+(0.0386)Ser+(-0.0077)Thr+(-0.0853)Cit+(-0.0029)Pro+(-0.0274)Lys+(0.0587)Ile;0.710,0.756,0.778,0.807,0.780,0.776,0.699,0.766,(0.7716)+(-0.1530)Asn+(0.0045)Gly+(0.0066)Gln+(-0.0886)Cit+(-0.0172)Leu+(0.0696)Phe;0.710,0.755,0.753,0.772,0.722,0.803,0.734,0.758,(3.2420)+(-0.0080)Ala+(0.0133)Pro+(-0.0152)Tyr+(-0.1846)Met+(0.0226)Orn+(-0.0004)Leu;0.710,0.755,0.757,0.753,0.790,0.805,0.667,0.754,(4.5890)+(-0.1023)Asn+(-0.0991)Cit+(-0.0039)Arg+(0.0023)Pro+(0.0515)Orn+(-0.0149)Leu;0.710,0.762,0.692,0.727,0.602,0.774,0.730,0.708,(-1.7491)+(0.0307)Ser+(-0.0126)Thr+(-0.0106)Ala+(0.0117)Pro+(-0.0574)Tyr+(0.0615)Phe;0.710,0.757,0.684,0.735,0.617,0.733,0.652,0.684,(-1.3987)+(0.0265)Ser+(-0.0075)Thr+(-0.0652)Tyr+(-0.0239)Val+(0.0198)Leu+(0.0757)Phe;0.710,0.751,0.628,0.642,0.619,0.727,0.542,0.632,(-0.4479)+(0.0321)Ser+(-0.0023)Gln+(-0.0284)Arg+(-0.0624)Tyr+(0.0096)Orn+(0.0406)Ile;0.710,0.757,0.758,0.779,0.730,0.808,0.725,0.760,(1.9905)+(0.0025)Gln+(0.0108)Thr+(-0.0080)Ala+(0.0122)Pro+(-0.2545)Met+(0.0126)Orn;0.710,0.

755,0.785,0.806,0.742,0.790,0.816,0.789,(3.5241)+(-0.1188)Asn+(-0.0078)Ala+(0.0115)Pro+(-0.0177)Val+(0.0007)Lys+(0.0753)Phe;0.710,0.751,0.718,0.741,0.718,0.796,0.597,0.713,(3.3290)+(0.0004)Gln+(-0.1002)Cit+(0.0061)Pro+(-0.0538)Tyr+(-0.0126)Val+(0.0537)Orn;0.710,0.759,0.790,0.799,0.760,0.835,0.797,0.798,(4.0469)+(0.0013)Gly+(-0.0031)Ala+(-0.0020)Arg+(-0.0346)Val+(-0.2015)Met+(0.0632)Leu;0.710,0.757,0.632,0.674,0.593,0.684,0.564,0.629,(-0.4931)+(0.0290)Ser+(-0.0041)Gln+(0.0077)Pro+(-0.0748)Tyr+(-0.0166)Val+(0.0862)Phe;0.710,0.756,0.751,0.786,0.723,0.783,0.691,0.746,(5.2468)+(-0.1073)Asn+(0.0088)Pro+(-0.0361)Tyr+(-0.0165)Val+(0.0379)Orn+(0.0002)Lys;0.710,0.755,0.797,0.825,0.762,0.804,0.789,0.795,(2.9032)+(-0.1221)Asn+(0.0028)Gly+(-0.0051)Ala+(-0.0161)Val+(0.0005)Lys+(0.0841)Phe;0.710,0.757,0.749,0.791,0.732,0.791,0.644,0.740,(2.5392)+(0.0031)Gln+(0.0155)Thr+(0.0107)Pro+(-0.0127)Tyr+(-0.0107)Val+(-0.2624)Met;0.710,0.755,0.807,0.838,0.749,0.824,0.829,0.810,(3.9626)+(-0.1432)Asn+(-0.0002)Gly+(0.0063)Gln+(-0.0216)Tyr+(-0.0378)Val+(0.0539)Leu;0.710,0.754,0.772,0.791,0.745,0.803,0.758,0.774,(4.2589)+(-0.0396)Asn+(0.0014)Gly+(-0.0074)Ala+(0.0140)Pro+(-0.0116)Tyr+(-0.1388)Met;0.710,0.761,0.757,0.740,0.777,0.794,0.733,0.761,(1.7101)+(-0.1464)Asn+(0.0054)Gln+(0.0015)Thr+(-0.1072)Cit+(0.0324)Orn+(0.0179)Ile;0.710,0.755,0.728,0.761,0.660,0.775,0.748,0.736,(1.1194)+(0.0097)Thr+(-0.0105)Ala+(-0.0240)Arg+(-0.0603)Tyr+(0.0425)Ile+(0.0484)Phe;0.710,0.753,0.780,0.825,0.751,0.753,0.742,0.768,(1.3214)+(-0.1089)Asn+(0.0066)Gln+(-0.0132)Arg+(-0.0607)Tyr+(-0.0075)Lys+(0.0722)Phe;0.710,0.751,0.772,0.790,0.736,0.826,0.763,0.778,(4.8729)+(-0.1071)Asn+(0.0005)Gly+(-0.0071)Ala+(0.0116)Pro+(-0.0154)Val+(0.0333)Orn;0.710,0.759,0.692,0.695,0.641,0.791,0.719,0.712,(-0.7268)+(0.0354)Ser+(-0.0029)Gln+(-0.0115)Ala+(0.0103)Pro+(-0.0212)Lys+(0.0522)Phe;0.710,0.757,0.752,0.759,0.743,0.799,0.716,0.754,(5.5560)+(-0.1539)Asn+(0.0028)Gly+(0.01

92)Thr+(-0.0529)Cit+(-0.0404)Val+(0.0582)Leu;0.710,0.759,0.763,0.763,0.754,0.810,0.748,0.769,(6.0254)+(-0.1408)Asn+(0.0223)Thr+(-0.0491)Cit+(-0.0396)Val+(-0.0063)Lys+(0.0587)Leu;0.710,0.758,0.749,0.737,0.691,0.818,0.855,0.775,(2.0336)+(0.0003)Gly+(-0.0004)Thr+(-0.0125)Ala+(0.0057)Pro+(-0.0196)Lys+(0.0530)Ile;0.710,0.756,0.768,0.803,0.757,0.780,0.689,0.757,(3.4387)+(-0.1317)Asn+(0.0067)Gln+(0.0126)Thr+(-0.0788)Cit+(0.0051)Pro+(-0.0482)Tyr;0.710,0.755,0.793,0.836,0.768,0.835,0.701,0.785,(4.0142)+(-0.1125)Asn+(0.0056)Gln+(-0.0171)Arg+(-0.0289)Tyr+(-0.0142)Val+(0.0388)Orn;0.710,0.757,0.651,0.688,0.607,0.713,0.600,0.652,(-0.4342)+(0.0294)Ser+(-0.0040)Gln+(-0.0670)Tyr+(-0.0264)Val+(0.0245)Leu+(0.0804)Phe;0.710,0.756,0.712,0.769,0.677,0.734,0.617,0.699,(1.6583)+(-0.0256)Arg+(0.0066)Pro+(-0.0689)Tyr+(-0.0193)Val+(0.0320)Orn+(0.0784)Phe;0.710,0.750,0.796,0.820,0.801,0.805,0.716,0.786,(2.4198)+(-0.0741)Asn+(0.0022)Gly+(0.0079)Gln+(-0.0780)Cit+(-0.1647)Met+(0.0034)Leu;0.710,0.757,0.789,0.793,0.778,0.801,0.795,0.792,(5.7484)+(-0.0605)Asn+(-0.0415)Cit+(-0.0360)Val+(-0.1545)Met+(0.0041)Lys+(0.0599)Leu;0.710,0.754,0.762,0.785,0.724,0.810,0.745,0.766,(2.2238)+(0.0028)Gln+(-0.0079)Ala+(0.0130)Pro+(-0.0145)Tyr+(-0.2036)Met+(0.0187)Orn;0.710,0.763,0.766,0.778,0.749,0.805,0.741,0.768,(1.0550)+(0.0476)Ser+(-0.1374)Asn+(-0.0073)Gly+(0.0040)Gln+(-0.0138)Arg+(-0.0093)Lys;0.710,0.759,0.734,0.706,0.772,0.779,0.693,0.738,(3.1802)+(-0.1175)Asn+(0.0047)Thr+(-0.0998)Cit+(-0.0045)Arg+(0.0369)Orn+(0.0176)Ile;0.710,0.757,0.749,0.771,0.726,0.797,0.706,0.7

50,(3.1940)+(0.0165)Thr+(-0.0079)Ala+(0.0134)Pro+(-0.0147)Tyr+(-0.2341)Met+(0.0042)Leu;0.710,0.754,0.765,0.767,0.741,0.824,0.765,0.774,(5.2960)+(-0.1270)Asn+(-0.0096)Arg+(-0.0448)Val+(0.0439)Orn+(-0.0018)Lys+(0.0572)Leu;0.710,0.753,0.750,0.763,0.719,0.755,0.778,0.754,(3.4090)+(-0.1570)Asn+(0.0034)Gly+(0.0056)Pro+(-0.0425)Val+(0.0458)Leu+(0.064

8)Phe;0.710,0.752,0.786,0.806,0.751,0.817,0.781,0.789,(2.2937)+(-0.00
04)Gly+(0.0041)Gln+(-0.0076)Ala+(0.0133)Pro+(-0.2086)Met+(-0.0035)Lys
;0.709,0.751,0.748,0.781,0.713,0.778,0.710,0.746,(1.9426)+(-0.0072)Al
a+(-0.0156)Arg+(-0.0525)Tyr+(0.0300)Orn+(-0.0122)Lys+(0.0677)Phe;0.70
9,0.761,0.751,0.778,0.745,0.729,0.708,0.740,(3.5215)+(-0.0776)Asn+(-0
.0643)Cit+(0.0053)Pro+(-0.0594)Tyr+(-0.0079)Lys+(0.0781)Phe;0.709,0.7
54,0.790,0.813,0.747,0.838,0.785,0.796,(3.9469)+(-0.1241)Asn+(0.0036)
Gln+(-0.0070)Ala+(0.0109)Pro+(-0.0156)Val+(0.0299)Orn;0.709,0.756,0.7
79,0.806,0.756,0.755,0.772,0.772,(2.1475)+(-0.1815)Asn+(0.0042)Gln+(0
.0125)Thr+(0.0049)Pro+(-0.0233)Val+(0.0732)Phe;0.709,0.754,0.653,0.66
2,0.595,0.712,0.704,0.668,(-0.9476)+(0.0373)Ser+(-0.0106)Gly+(0.0014)
Pro+(-0.0806)Tyr+(0.0040)Orn+(0.0327)Ile;0.709,0.756,0.720,0.725,0.74
7,0.801,0.594,0.717,(4.1169)+(-0.1077)Cit+(0.0042)Pro+(-0.0478)Tyr+(0
.0587)Orn+(-0.0154)Lys+(-0.0041)Leu;0.709,0.765,0.675,0.630,0.686,0.7
83,0.693,0.698,(-0.4050)+(0.0444)Ser+(-0.0042)Gly+(-0.0087)Thr+(-0.07
90)Cit+(-0.0273)Lys+(0.0527)Ile;0.709,0.757,0.765,0.803,0.743,0.796,0
.687,0.757,(5.4806)+(-0.1172)Asn+(-0.0017)Gly+(0.0123)Thr+(-0.0352)Ty
r+(-0.0148)Val+(0.0371)Orn;0.709,0.754,0.758,0.766,0.730,0.808,0.764,
0.767,(5.3911)+(-0.1528)Asn+(0.0007)Gly+(0.0204)Thr+(-0.0449)Val+(-0.
0053)Lys+(0.0642)Leu;0.709,0.763,0.727,0.743,0.755,0.766,0.601,0.716,
(3.8612)+(0.0231)Thr+(-0.0744)Cit+(0.0084)Pro+(-0.0187)Tyr+(-0.2667)M
et+(0.0040)Leu;0.709,0.763,0.660,0.617,0.680,0.782,0.648,0.682,(-0.57
10)+(0.0391)Ser+(-0.0001)Gln+(-0.0088)Thr+(-0.0850)Cit+(-0.0273)Lys+(
0.0547)Ile;0.709,0.761,0.797,0.795,0.770,0.838,0.830,0.808,(3.9682)+(
-0.0034)Ala+(0.0137)Tyr+(-0.0367)Val+(-0.2240)Met+(0.0004)Lys+(0.0657
)Leu;0.709,0.758,0.714,0.775,0.689,0.743,0.586,0.698,(1.4211)+(0.0101
)Thr+(-0.0295)Arg+(-0.0707)Tyr+(-0.0191)Val+(0.0311)Orn+(0.0854)Phe;0
.709,0.755,0.740,0.747,0.670,0.806,0.821,0.761,(2.9274)+(-0.0004)Gly+

(-0.0110)Ala+(0.0076)Pro+(-0.0385)Tyr+(-0.0152)Lys+(0.0543)Ile;0.709,0.755,0.745,0.757,0.692,0.811,0.775,0.759,(-0.6798)+(0.0395)Ser+(-0.0075)Gly+(-0.0073)Ala+(-0.0092)Val+(-0.0181)Lys+(0.0641)Phe;0.709,0.760,0.717,0.755,0.689,0.764,0.639,0.712,(1.4138)+(0.0360)Ser+(-0.1496)Asn+(0.0024)Gln+(0.0073)Pro+(-0.0390)Tyr+(-0.0050)Leu;0.709,0.758,0.758,0.765,0.785,0.803,0.655,0.752,(2.4287)+(0.0003)Gly+(0.0039)Gln+(-0.1008)Cit+(-0.0176)Tyr+(-0.1955)Met+(0.0435)Orn;0.709,0.756,0.758,0.771,0.741,0.788,0.733,0.759,(0.5747)+(0.0472)Ser+(-0.1521)Asn+(-0.0064)Gly+(0.0037)Gln+(-0.0025)Thr+(-0.0173)Arg;0.709,0.754,0.786,0.791,0.769,0.816,0.789,0.791,(2.8688)+(-0.0844)Asn+(-0.0082)Ala+(-0.0104)Arg+(0.0266)Orn+(-0.0098)Lys+(0.0504)Phe;0.709,0.762,0.740,0.780,0.711,0.788,0.657,0.734,(1.3025)+(0.0355)Ser+(-0.1502)Asn+(0.0028)Gln+(0.0006)Thr+(-0.0321)Tyr+(-0.0013)Leu;0.709,0.759,0.653,0.628,0.577,0.797,0.774,0.694,(-1.5489)+(0.0312)Ser+(-0.0050)Gln+(-0.0154)Ala+(0.0060)Pro+(0.0433)Ile+(0.0151)Phe;0.709,0.756,0.665,0.721,0.602,0.707,0.620,0.663,(-1.5192)+(0.0277)Ser+(-0.0102)Thr+(0.0075)Pro+(-0.0704)Tyr+(-0.0158)Val+(0.0791)Phe;0.709,0.756,0.711,0.717,0.706,0.783,0.653,0.715,(2.0714)+(0.0398)Ser+(-0.0076)Gly+(-0.0655)Cit+(0.0079)Pro+(-0.0470)Tyr+(-0.0146)Lys;0.709,0.755,0.737,0.764,0.730,0.797,0.636,0.731,(3.2747)+(0.0129)Thr+(0.0095)Pro+(-0.0126)Val+(-0.2513)Met+(0.0235)Orn+(-0.0023)Lys;0.709,0.758,0.760,0.766,0.785,0.803,0.660,0.754,(2.4902)+(0.0039)Gln+(-0.1005)Cit+(-0.0179)Tyr+(-0.1925)Met+(0.0440)Orn+(-0.0010)Leu;0.709,0.757,0.792,0.819,0.772,0.776,0.773,0.785,(2.1054)+(-0.1746)Asn+(0.0046)Gln+(0.0151)Thr+(-0.0208)Val+(-0.0049)Lys+(0.0769)Phe;0.709,0.757,0.753,0.741,0.713,0.823,0.817,0.774,(2.2623)+(0.0024)Thr+(-0.0109)Ala+(-0.0146)Arg+(0.0173)Orn+(-0.0188)Lys+(0.0521)Ile;0.709,0.752,0.754,0.779,0.782,0.802,0.594,0.739,(4.3717)+(0.0007)Gly+(0.0230)Thr+(-0.0671)Cit+(-0.0043)Val+(-0.2331)Met+(-0.0020)Lys;0.709,0.755,0

.776,0.807,0.767,0.824,0.678,0.769,(5.6030)+(-0.0940)Asn+(0.0018)Gly+(0.0180)Thr+(-0.0060)Ala+(-0.0735)Cit+(-0.0244)Tyr;0.709,0.753,0.781,0.812,0.751,0.813,0.742,0.779,(5.2708)+(-0.0933)Asn+(-0.0006)Gly+(-0.0035)Ala+(-0.0243)Tyr+(-0.0120)Val+(0.0410)Orn;0.709,0.752,0.747,0.778,0.700,0.780,0.743,0.750,(1.2382)+(0.0029)Gln+(-0.0116)Ala+(-0.0872)Cit+(0.0119)Pro+(-0.0582)Tyr+(0.0670)Phe;0.709,0.763,0.734,0.751,0.763,0.781,0.596,0.723,(4.3108)+(0.0234)Thr+(-0.0723)Cit+(0.0089)Pro+(-0.0175)Tyr+(-0.2440)Met+(-0.0042)Lys;0.709,0.756,0.745,0.771,0.734,0.799,0.659,0.741,(3.4033)+(-0.0018)Gly+(0.0136)Thr+(0.0096)Pro+(-0.0134)Val+(-0.2564)Met+(0.0236)Orn;0.709,0.750,0.703,0.691,0.727,0.807,0.607,0.708,(1.0148)+(0.0274)Ser+(-0.0019)Gln+(-0.0171)Thr+(-0.1009)Cit+(-0.0119)Val+(0.0513)Orn;0.709,0.761,0.726,0.746,0.678,0.817,0.707,0.737,(-1.1710)+(0.0274)Ser+(-0.0081)Ala+(-0.0114)Val+(0.0229)Orn+(-0.0194)Lys+(0.0637)Phe;0.709,0.764,0.622,0.607,0.609,0.744,0.604,0.641,(0.0008)+(0.0343)Ser+(-0.0027)Gln+(-0.0511)Tyr+(0.0138)Orn+(-0.0251)Lys+(0.0525)Ile;0.709,0.762,0.703,0.738,0.676,0.819,0.579,0.703,(1.2714)+(0.0226)Ser+(-0.0276)Arg+(-0.0400)Tyr+(-0.0303)Val+(0.0300)Orn+(0.0363)Leu;0.709,0.757,0.745,0.750,0.738,0.799,0.706,0.748,(1.9879)+(0.0491)Ser+(-0.1240)Asn+(-0.0066)Gly+(0.0022)Thr+(-0.0117)Arg+(-0.0090)Lys;0.709,0.753,0.788,0.810,0.748,0.793,0.807,0.790,(3.6857)+(-0.1080)Asn+(-0.0077)Ala+(-0.0079)Arg+(0.0114)Pro+(-0.0172)Val+(0.0760)Phe;0.709,0.759,0.691,0.745,0.604,0.767,0.675,0.698,(-1.3083)+(0.0235)Ser+(-0.0101)Ala+(0.0119)Pro+(-0.0659)Tyr+(-0.0146)Leu+(0.0765)Phe;0.709,0.755,0.789,0.810,0.779,0.832,0.724,0.786,(5.0109)+(-0.0613)Asn+(-0.0030)Ala+(-0.0103)Arg+(-0.0111)Val+(-0.0913)Met+(0.0410)Orn;0.709,0.755,0.774,0.779,0.742,0.811,0.805,0.784,(2.8983)+(-0.1066)Asn+(0.0110)Thr+(-0.0107)Ala+(0.0086)Pro+(-0.0113)Lys+(0.0530)Phe;0.709,0.753,0.754,0.758,0.730,0.810,0.757,0.764,(5.2621)+(-0.1333)Asn+(-0.0109)Arg+(0.

0058)Pro+(-0.0460)Val+(0.0410)Orn+(0.0549)Leu;0.709,0.752,0.785,0.808,0.753,0.816,0.769,0.786,(5.2713)+(-0.0467)Asn+(-0.0060)Ala+(0.0152)Pro+(-0.0091)Tyr+(-0.0086)Val+(-0.1142)Met;0.709,0.753,0.763,0.768,0.749,0.845,0.717,0.770,(2.2660)+(0.0365)Ser+(-0.0055)Gly+(-0.0067)Ala+(-0.0682)Cit+(-0.0046)Arg+(-0.0119)Lys;0.709,0.746,0.783,0.790,0.752,0.804,0.814,0.790,(2.9700)+(-0.0848)Asn+(-0.0103)Ala+(-0.0074)Arg+(0.0094)Pro+(-0.0073)Lys+(0.0520)Phe;0.709,0.754,0.816,0.840,0.792,0.845,0.779,0.814,(3.1294)+(-0.1088)Asn+(0.0022)Gly+(0.0071)Gln+(-0.0066)Ala+(-0.0834)Cit+(-0.0001)Arg;0.709,0.752,0.693,0.708,0.703,0.784,0.564,0.690,(1.6242)+(0.0311)Ser+(-0.0030)Thr+(-0.0755)Cit+(0.0079)Pro+(-0.0401)Tyr+(-0.0142)Lys;0.709,0.752,0.639,0.651,0.619,0.731,0.583,0.646,(-0.7604)+(0.0351)Ser+(-0.0017)Gln+(-0.0065)Thr+(-0.0244)Arg+(-0.0567)Tyr+(0.0441)Ile;0.709,0.761,0.721,0.752,0.706,0.791,0.625,0.718,(2.0251)+(0.0380)Ser+(-0.1288)Asn+(0.0036)Thr+(-0.0294)Tyr+(-0.0071)Lys+(0.0030)Leu;0.709,0.757,0.742,0.745,0.778,0.797,0.621,0.735,(3.6366)+(0.0016)Gly+(-0.0989)Cit+(-0.0014)Arg+(-0.0171)Tyr+(-0.1733)Met+(0.0487)Orn;0.709,0.750,0.626,0.640,0.611,0.720,0.549,0.630,(-0.4937)+(0.0328)Ser+(-0.0021)Gln+(-0.0277)Arg+(0.0022)Pro+(-0.0625)Tyr+(0.0409)Ile;0.709,0.756,0.760,0.762,0.792,0.804,0.654,0.753,(2.1297)+(0.0009)Gly+(0.0039)Gln+(-0.1005)Cit+(-0.2239)Met+(0.0409)Orn+(-0.0008)Leu;0.709,0.755,0.757,0.754,0.792,0.806,0.655,0.752,(4.6453)+(-0.1100)Asn+(0.0058)Thr+(-0.0997)Cit+(-0.0053)Arg+(0.0504)Orn+(-0.0138)Leu;0.709,0.754,0.797,0.818,0.763,0.827,0.793,0.800,(3.6566)+(-0.1532)Asn+(0.0023)Gly+(0.0073)Gln+(-0.0612)Cit+(-0.0352)Val+(0.0503)Leu;0.709,0.754,0.694,0.712,0.702,0.787,0.560,0.690,(1.5314)+(0.0289)Ser+(0.0008)Gln+(-0.0778)Cit+(0.0076)Pro+(-0.0420)Tyr+(-0.0154)Lys;0.709,0.753,0.753,0.763,0.747,0.856,0.664,0.757,(1.9823)+(0.0294)Ser+(-0.0008)Thr+(-0.0072)Ala+(-0.0798)Cit+(0.0011)Val+(-0.0124)Lys;0.709,0.754,0.717,0.719,0

.745,0.796,0.597,0.714,(4.0462)+(0.0000)Gly+(-0.1082)Cit+(0.0036)Pro+(-0.0481)Tyr+(0.0581)Orn+(-0.0168)Lys;0.709,0.751,0.788,0.800,0.764,0.807,0.790,0.790,(2.8041)+(-0.0983)Asn+(-0.0074)Ala+(0.0270)Orn+(-0.0087)Lys+(-0.0123)Leu+(0.0611)Phe;0.709,0.754,0.790,0.814,0.759,0.822,0.766,0.790,(2.3252)+(0.0047)Gln+(-0.0074)Ala+(-0.0118)Arg+(0.0133)Pro+(-0.2029)Met+(-0.0012)Lys;0.709,0.758,0.771,0.792,0.789,0.816,0.647,0.761,(4.6449)+(0.0245)Thr+(-0.0047)Ala+(-0.0702)Cit+(-0.0043)Arg+(-0.0034)Tyr+(-0.2056)Met;0.709,0.755,0.742,0.794,0.729,0.689,0.670,0.721,(2.8093)+(-0.1297)Asn+(-0.0001)Gly+(0.0179)Thr+(-0.0703)Tyr+(-0.0197)Leu+(0.0963)Phe;0.709,0.752,0.804,0.825,0.779,0.832,0.779,0.804,(2.3746)+(-0.0694)Asn+(-0.0004)Gly+(0.0051)Gln+(-0.0047)Ala+(-0.1539)Met+(0.0225)Orn;0.709,0.752,0.784,0.805,0.732,0.807,0.821,0.791,(3.7863)+(-0.1593)Asn+(0.0007)Gly+(0.0053)Gln+(0.0063)Pro+(-0.0421)Val+(0.0533)Leu;0.709,0.758,0.699,0.745,0.635,0.772,0.660,0.703,(-0.9117)+(0.0279)Ser+(-0.0025)Gln+(-0.0073)Ala+(-0.0599)Tyr+(-0.0100)Leu+(0.0823)Phe;0.709,0.754,0.822,0.853,0.792,0.843,0.785,0.818,(3.5375)+(-0.0998)Asn+(0.0078)Gln+(-0.0055)Ala+(-0.0773)Cit+(-0.0002)Arg+(-0.0208)Tyr;0.709,0.752,0.789,0.788,0.772,0.834,0.795,0.797,(5.3734)+(-0.0690)Asn+(-0.0102)Ala+(-0.0785)Cit+(0.0079)Arg+(0.0128)Pro+(-0.0044)Lys;0.709,0.754,0.808,0.848,0.781,0.788,0.772,0.797,(1.7213)+(-0.1461)Asn+(0.0017)Gly+(0.0060)Gln+(-0.0153)Arg+(-0.0193)Val+(0.0754)Phe;0.709,0.752,0.747,0.787,0.704,0.770,0.715,0.744,(1.5725)+(-0.0067)Ala+(-0.0560)Tyr+(0.0290)Orn+(-0.0138)Lys+(-0.0096)Leu+(0.0763)Phe;0.709,0.757,0.719,0.755,0.674,0.757,0.687,0.718,(1.6217)+(-0.0610)Tyr+(-0.0277)Val+(0.0334)Orn+(-0.0151)Lys+(0.0277)Leu+(0.0695)Phe;0.709,0.754,0.748,0.749,0.780,0.795,0.641,0.741,(3.9320)+(-0.0968)Cit+(-0.0017)Arg+(-0.0190)Tyr+(-0.1627)Met+(0.0501)Orn+(-0.0020)Leu;0.709,0.747,0.724,0.742,0.663,0.785,0.759,0.737,(2.3242)+(-0.0115)Ala+(-0.0202)Arg+(0.0081)Pro+(

-0.0464)Tyr+(0.0143)Orn+(0.0422)Ile;0.709,0.761,0.688,0.673,0.593,0.805,0.843,0.729,(-2.4643)+(0.0362)Ser+(-0.0242)Thr+(-0.0141)Ala+(0.0074)Pro+(0.0038)Orn+(0.0489)Ile;0.709,0.755,0.759,0.753,0.711,0.829,0.828,0.780,(1.6290)+(0.0050)Thr
+(-0.0115)Ala+(-0.0144)Arg+(-0.0190)Lys+(0.0515)Ile+(0.0264)Phe;0.709,0.762,0.731,0.750,0.762,0.772,0.587,0.717,(4.1957)+(0.0240)Thr+(-0.0683)Cit+(-0.0068)Arg+(0.0090)Pro+(-0.0185)Tyr+(-0.2531)Met;0.709,0.757,0.718,0.754,0.669,0.825,0.650,0.724,(1.1513)+(0.0276)Ser+(-0.0092)Ala+(-0.0239)Arg+(0.0138)Pro+(-0.0376)Tyr+(-0.0025)Leu;0.709,0.754,0.767,0.816,0.747,0.731,0.703,0.749,(2.8741)+(-0.0923)Asn+(0.0016)Gly+(-0.0104)Arg+(-0.0554)Tyr+(-0.0169)Leu+(0.0913)Phe;0.709,0.751,0.791,0.823,0.757,0.827,0.752,0.790,(2.8673)+(0.0048)Gln+(-0.0063)Ala+(-0.0118)Arg+(0.0146)Pro+(-0.0078)Val+(-0.1919)Met;0.709,0.762,0.748,0.792,0.721,0.850,0.613,0.744,(1.7512)+(0.0225)Ser+(-0.0054)Ala+(-0.0257)Arg+(-0.0289)Tyr+(-0.0090)Val+(0.0316)Orn;0.709,0.756,0.716,0.734,0.655,0.812,0.727,0.732,(-1.0604)+(0.0300)Ser+(-0.0103)Ala+(0.0107)Pro+(-0.0107)Val+(-0.0182)Lys+(0.0606)Phe;0.708,0.760,0.716,0.713,0.659,0.854,0.743,0.742,(0.6901)+(0.0264)Ser+(-0.0074)Ala+(-0.0318)Val+(0.0283)Orn+(-0.0201)Lys+(0.0516)Leu;0.708,0.754,0.769,0.807,0.724,0.823,0.723,0.769,(5.6364)+(-0.1040)Asn+(0.0147)Thr+(-0.0066)Ala+(0.0137)Pro+(-0.0309)Tyr+(-0.0112)Val;0.708,0.753,0.766,0.765,0.710,0.831,0.836,0.786,(2.3917)+(-0.1036)Asn+(0.0020)Gly+(0.0030)Thr+(-0.0107)Ala+(0.0092)Orn+(0.0425)Ile;0.708,0.757,0.739,0.741,0.750,0.757,0.700,0.737,(0.2286)+(-0.1610)Asn+(0.0056)Gly+(0.0059)Gln+(-0.0974)Cit+(0.0235)Ile+(0.0342)Phe;0.708,0.755,0.752,0.754,0.776,0.804,0.658,0.748,(2.1697)+(-0.1475)Asn+(0.0034)Gly+(0.0049)Gln+(0.0013)Thr+(-0.1117)Cit+(0.0400)Orn;0.708,0.754,0.825,0.853,0.800,0.849,0.786,0.822,(3.6347)+(-0.0952)Asn+(0.0080)Gln+(-0.0053)Ala+(-0.0772)Cit+(-0.0190)Tyr+(-0.0033)Lys;0.

708,0.758,0.778,0.812,0.777,0.811,0.666,0.767,(4.9745)+(-0.0760)Asn+(0.0229)Thr+(-0.0092)Tyr+(-0.0096)Val+(-0.1650)Met+(0.0023)Lys;0.708,0.750,0.717,0.713,0.677,0.828,0.729,0.737,(1.0677)+(0.0251)Ser+(-0.0120)Ala+(-0.0799)Cit+(0.0127)Pro+(-0.0209)Val+(0.0307)Leu;0.708,0.757,0.750,0.756,0.741,0.800,0.714,0.753,(2.0587)+(0.0494)Ser+(-0.1218)Asn+(-0.0067)Gly+(-0.0113)Arg+(-0.0077)Lys+(-0.0020)Leu;0.708,0.761,0.754,0.759,0.726,0.836,0.744,0.766,(1.1493)+(0.0386)Ser+(-0.0079)Gly+(-0.0071)Ala+(-0.0193)Arg+(0.0262)Orn+(-0.0158)Lys;0.708,0.753,0.739,0.792,0.677,0.762,0.716,0.737,(1.0768)+(-0.0004)Gln+(-0.0064)Ala+(-0.0583)Tyr+(-0.0151)Val+(0.0286)Orn+(0.0802)Phe;0.708,0.760,0.761,0.785,0.757,0.742,0.721,0.751,(3.5143)+(-0.0809)Asn+(-0.0701)Cit+(0.0077)Arg+(-0.0543)Tyr+(-0.0090)Lys+(0.0821)Phe;0.708,0.757,0.778,0.811,0.777,0.812,0.667,0.767,(5.1239)+(-0.0725)Asn+(-0.0007)Gly+(0.0238)Thr+(-0.0099)Tyr+(-0.0090)Val+(-0.1605)Met;0.708,0.757,0.635,0.683,0.615,0.702,0.504,0.626,(-1.9070)+(0.0306)Ser+(-0.0333)Arg+(0.0046)Pro+(-0.0805)Tyr+(0.0092)Orn+(0.0631)Phe;0.708,0.756,0.746,0.781,0.736,0.786,0.645,0.737,(3.9415)+(-0.0017)Gly+(0.0190)Thr+(0.0111)Pro+(-0.0155)Tyr+(-0.0107)Val+(-0.2427)Met;0.708,0.753,0.768,0.785,0.734,0.815,0.758,0.773,(1.9905)+(0.0029)Gln+(-0.0081)Ala+(0.0125)Pro+(-0.2245)Met+(0.0171)Orn+(0.0001)Leu;0.708,0.753,0.726,0.741,0.710,0.779,0.681,0.728,(-0.7074)+(0.0351)Ser+(-0.0078)Gly+(-0.0355)Arg+(-0.0209)Val+(0.0225)Orn+(0.0503)Phe;0.708,0.752,0.778,0.803,0.766,0.818,0.708,0.774,(5.6039)+(-0.0915)Asn+(0.0191)Thr+(-0.0066)Ala+(-0.0731)Cit+(-0.0286)Tyr+(0.0053)Leu;0.708,0.752,0.785,0.819,0.786,0.830,0.658,0.773,(5.2040)+(-0.0621)Asn+(0.0255)Thr+(-0.0024)Ala+(-0.0112)Arg+(-0.0079)Val+(-0.1585)Met;0.708,0.760,0.636,0.622,0.614,0.749,0.638,0.656,(-0.3365)+(0.0371)Ser+(-0.0019)Gln+(-0.0060)Thr+(-0.0458)Tyr+(-0.0223)Lys+(0.0557)Ile;0.708,0.754,0.751,0.764,0.743,0.793,0.704,0.751,(2.0447)+(0.0476)Ser+(-0

.1338)Asn+(-0.0063)Gly+(0.0004)Thr+(-0.0149)Arg+(-0.0065)Leu;0.708,0.754,0.730,0.734,0.759,0.804,0.602,0.725,(4.2009)+(-0.0002)Gly+(-0.1089)Cit+(-0.0433)Tyr+(0.0604)Orn+(-0.0157)Lys+(-0.0021)Leu;0.708,0.751,0.789,0.818,0.749,0.822,0.773,0.791,(2.7469)+(-0.0007)Gly+(0.0041)Gln+(-0.0065)Ala+(0.0148)Pro+(-0.0080)Val+(-0.2040)Met;0.708,0.750,0.732,0.776,0.695,0.734,0.693,0.725,(1.9681)+(-0.0032)Gly+(-0.0668)Tyr+(-0.0152)Val+(0.0348)Orn+(-0.0122)Lys+(0.0795)Phe;0.708,0.757,0.778,0.765,0.775,0.810,0.793,0.786,(2.1175)+(-0.1097)Asn+(0.0073)Gln+(-0.0887)Cit+(0.0031)Arg+(-0.0175)Lys+(0.0403)Ile;0.708,0.761,0.705,0.733,0.687,0.772,0.621,0.703,(1.9552)+(0.0392)Ser+(-0.1279)Asn+(0.0077)Pro+(-0.0354)Tyr+(-0.0064)Lys+(-0.0010)Leu;0.708,0.761,0.721,0.772,0.643,0.787,0.700,0.725,(-1.5925)+(0.0279)Ser+(-0.0078)Thr+(-0.0071)Ala+(-0.0561)Tyr+(-0.0099)Leu+(0.0792)Phe;0.708,0.755,0.766,0.792,0.764,0.774,0.697,0.757,(2.0791)+(-0.0768)Asn+(0.0051)Gln+(0.0164)Thr+(0.0060)Pro+(-0.2433)Met+(-0.0027)Leu;0.708,0.753,0.763,0.787,0.761,0.776,0.694,0.755,(2.2102)+(-0.0718)Asn+(0.0053)Gln+(0.0174)Thr+(0.0058)Pro+(-0.2375)Met+(-0.0052)Lys;0.708,0.752,0.746,0.778,0.706,0.771,0.727,0.746,(2.3738)+(-0.0105)Ala+(-0.0778)Cit+(0.0132)Pro+(-0.0556)Tyr+(-0.0100)Leu+(0.0786)Phe;0.708,0.752,0.762,0.765,0.746,0.847,0.722,0.770,(2.2190)+(0.0358)Ser+(-0.0053)Gly+(-0.0069)Ala+(-0.0722)Cit+(0.0003)Val+(-0.0130)Lys;0.708,0.762,0.784,0.798,0.755,0.813,0.790,0.789,(4.9751)+(-0.0722)Asn+(0.0022)Gly+(-0.0408)Val+(-0.1659)Met+(0.0043)Lys+(0.0668)Leu;0.708,0.755,0.739,0.782,0.665,0.778,0.747,0.743,(1.0802)+(-0.0069)Ala+(-0.0550)Tyr+(-0.0274)Val+(0.0282)Orn+(0.0267)Leu+(0.0688)Phe;0.708,0.756,0.764,0.793,0.771,0.783,0.657,0.751,(2.1825)+(-0.0663)Asn+(0.0058)Gln+(0.0203)Thr+(-0.0180)Arg+(0.0059)Pro+(-0.2475)Met;0.708,0.753,0.774,0.794,0.765,0.811,0.711,0.771,(3.7683)+(-0.0610)Asn+(-0.0002)Gly+(0.0168)Thr+(-0.0048)Ala+(-0.1808)Met+(0.0206)Orn;0.708,0.764,0

.731,0.746,0.734,0.810,0.628,0.730,(0.7849)+(0.0385)Ser+(-0.1398)Asn+(0.0024)Gln+(-0.0157)Arg+(0.0211)Orn+(-0.0104)Lys;0.708,0.758,0.643,0.689,0.617,0.702,0.531,0.635,(-1.9998)+(0.0337)Ser+(-0.0050)Thr+(-0.0297)Arg+(0.0056)Pro+(-0.0764)Tyr+(0.0654)Phe;0.708,0.754,0.742,0.771,0.668,0.784,0.789,0.753,(1.2396)+(0.0003)Gly+(-0.0103)Ala+(-0.0188)Arg+(-0.0532)Tyr+(0.0443)Ile+(0.0458)Phe;0.708,0.756,0.731,0.791,0.698,0.753,0.626,0.717,(1.1981)+(0.0012)Gln+(-0.0259)Arg+(-0.0651)Tyr+(-0.0182)Val+(0.0330)Orn+(0.0805)Phe;0.708,0.758,0.822,0.838,0.800,0.851,0.807,0.824,(3.2682)+(-0.0963)Asn+(0.0078)Gln+(-0.0069)Ala+(-0.0826)Cit+(-0.0066)Lys+(0.0062)Leu;0.708,0.757,0.732,0.737,0.674,0.808,0.785,0.751,(2.6465)+(0.0049)Thr+(-0.0095)Ala+(-0.0408)Tyr+(0.0173)Orn+(-0.0196)Lys+(0.0565)Ile;0.708,0.755,0.745,0.726,0.785,0.772,0.692,0.744,(2.8368)+(-0.1168)Asn+(-0.1006)Cit+(-0.0030)Arg+(-0.0017)Pro+(0.0420)Orn+(0.0299)Phe;0.708,0.754,0.826,0.858,0.796,0.854,0.786,0.823,(3.8548)+(-0.1035)Asn+(0.0079)Gln+(-0.0043)Ala+(-0.0718)Cit+(-0.0174)Tyr+(-0.0047)Val;0.708,0.753,0.771,0.791,0.764,0.817,0.698,0.767,(3.9954)+(-0.0574)Asn+(0.0171)Thr+(-0.0047)Ala+(-0.1679)Met+(0.0233)Orn+(-0.0053)Lys;0.708,0.761,0.696,0.681,0.608,0.806,0.842,0.734,(-3.0538)+(0.0360)Ser+(-0.0230)Thr+(-0.0131)Ala+(0.0036)Orn+(0.0515)Ile+(0.0166)Phe;0.708,0.757,0.773,0.801,0.790,0.817,0.633,0.760,(2.8063)+(0.0050)Gln+(0.0204)Thr+(-0.0735)Cit+(-0.0038)Val+(-0.2485)Met+(-0.0041)Lys;0.708,0.757,0.729,0.744,0.768,0.774,0.580,0.716,(3.6857)+(0.0019)Gly+(0.0220)Thr+(-0.0727)Cit+(-0.0061)Arg+(0.0082)Pro+(-0.2791)Met;0.708,0.751,0.788,0.809,0.758,0.817,0.776,0.790,(4.9454)+(-0.0522)Asn+(-0.0061)Ala+(0.0152)Pro+(-0.0106)Val+(-0.1394)Met+(0.0056)Lys;0.708,0.751,0.744,0.769,0.705,0.774,0.737,0.746,(2.3859)+(-0.0112)Ala+(-0.0763)Cit+(-0.0050)Arg+(0.0127)Pro+(-0.0546)Tyr+(0.0699)Phe;0.708,0.761,0.762,0.770,0.787,0.805,0.655,0.754,(2.4792)+(0.0043)Gln+(-0.0965)Cit+(-0.00

58)Arg+(-0.0177)Tyr+(-0.1898)Met+(0.0438)Orn;0.708,0.753,0.750,0.770,0.746,0.805,0.668,0.747,(3.9405)+(-0.0005)Gly+(-0.0142)Arg+(0.0099)Pro+(-0.0133)Val+(-0.1988)Met+(0.0337)Orn;0.708,0.756,0.721,0.735,0.683,0.835,0.686,0.735,(0.8860)+(0.0320)Ser+(-0.0009)Gln+(-0.0100)Ala+(-0.0188)Arg+(0.0121)Pro+(-0.0124)Lys;0.708,0.756,0.758,0.771,0.748,0.860,0.673,0.763,(1.6309)+(0.0274)Ser+(0.0015)Gln+(-0.0074)Ala+(-0.0829)Cit+(0.0012)Val+(-0.0135)Lys;0.708,0.755,0.754,0.784,0.737,0.839,0.649,0.752,(1.6435)+(0.0250)Ser+(0.0014)Gln+(-0.0069)Ala+(-0.0728)Cit+(-0.0101)Arg+(-0.0248)Tyr;0.708,0.759,0.762,0.767,0.795,0.806,0.653,0.755,(2.1336)+(0.0008)Gly+(0.0043)Gln+(-0.0964)Cit+(-0.0058)Arg+(-0.2204)Met+(0.0408)Orn;0.708,0.759,0.711,0.716,0.742,0.799,0.575,0.708,(4.0075)+(0.0060)Thr+(-0.1103)Cit+(0.0034)Pro+(-0.0510)Tyr+(0.0568)Orn+(-0.0184)Lys;0.708,0.756,0.713,0.732,0.638,0.809,0.747,0.732,(1.2392)+(0.0363)Ser+(-0.0088)Gly+(-0.0013)Gln+(-0.0095)Ala+(0.0133)Pro+(-0.0494)Tyr;0.708,0.755,0.749,0.753,0.720,0.791,0.766,0.758,(5.4368)+(-0.1560)Asn+(0.0191)Thr+(0.0061)Pro+(-0.0459)Val+(-0.0046)Lys+(0.0611)Leu;0.708,0.754,0.755,0.778,0.780,0.785,0.621,0.741,(2.1027)+(0.0052)Gln+(0.0224)Thr+(-0.0745)Cit+(-0.0100)Arg+(-0.2901)Met+(0.0064)Leu;0.708,0.754,0.751,0.774,0.771,0.781,0.627,0.738,(2.1683)+(0.0047)Gln+(0.0210)Thr+(-0.0803)Cit+(-0.0109)Tyr+(-0.2795)Met+(0.0073)Leu;0.708,0.753,0.768,0.791,0.788,0.809,0.636,0.756,(2.6002)+(-0.0002)Gly+(0.0051)Gln+(0.0207)Thr+(-0.0776)Cit+(-0.2553)Met+(-0.0061)Lys;0.708,0.761,0.739,0.748,0.726,0.749,0.736,0.740,(4.1242)+(-0.0775)Asn+(-0.0699)Cit+(0.0018)Arg+(0.0017)Pro+(-0.0485)Tyr+(0.0386)Ile;0.708,0.756,0.699,0.720,0.699,0.790,0.580,0.697,(-1.1190)+(0.0306)Ser+(-0.0283)Arg+(-0.0165)Val+(0.0246)Orn+(-0.0164)Lys+(0.0619)Phe;0.708,0.754,0.750,0.778,0.736,0.844,0.643,0.750,(2.0897)+(0.0265)Ser+(-0.0064)Ala+(-0.0692)Cit+(-0.0091)Arg+(-0.0222)Tyr+(-0.0016)Val;0.708,0.754,0.732,0.751,0.766,0

.771,0.583,0.718,(3.6059)+(0.0013)Gly+(0.0238)Thr+(-0.0756)Cit+(-0.0102)Tyr+(-0.2648)Met+(0.0083)Leu;0.708,0.753,0.727,0.729,0.757,0.803,0.605,0.723,(4.1235)+(-0.0001)Gly+(-0.1105)Cit+(0.0015)Arg+(-0.0440)Tyr+(0.0601)Orn+(-0.0168)Lys;0.708,0.752,0.774,0.790,0.767,0.793,0.730,0.770,(2.1034)+(-0.0617)Asn+(0.0052)Gln+(0.0057)Pro+(-0.2000)Met+(0.0191)Orn+(-0.0064)Lys;0.708,0.757,0.725,0.777,0.687,0.755,0.647,0.717,(1.6551)+(-0.0243)Arg+(-0.0625)Tyr+(-0.0286)Val+(0.0347)Orn+(0.0216)Leu+(0.0733)Phe;0.708,0.753,0.793,0.829,0.769,0.809,0.737,0.786,(4.0557)+(-0.1173)Asn+(0.0075)Gln+(-0.0659)Cit+(0.0089)Pro+(-0.0320)Tyr+(-0.0107)Val;0.708,0.753,0.762,0.797,0.746,0.793,0.678,0.754,(2.4977)+(-0.0022)Gly+(0.0036)Gln+(0.0161)Thr+(0.0100)Pro+(-0.0113)Val+(-0.2788)Met;0.708,0.759,0.744,0.790,0.735,0.707,0.669,0.725,(3.0688)+(-0.1205)Asn+(0.0210)Thr+(-0.0698)Tyr
+(-0.0083)Lys+(-0.0161)Leu+(0.0977)Phe;0.708,0.755,0.727,0.734,0.750,0.808,0.604,0.724,(3.1966)+(0.0026)Gln+(-0.1113)Cit+(0.0032)Pro+(-0.0494)Tyr+(0.0558)Orn+(-0.0184)Lys;0.708,0.752,0.790,0.828,0.762,0.801,0.743,0.783,(3.3824)+(-0.0794)Asn+(0.0063)Gln+(0.0107)Pro+(-0.0131)Tyr+(-0.0116)Val+(-0.1466)Met;0.708,0.752,0.772,0.800,0.759,0.802,0.705,0.766,(4.9451)+(-0.0728)Asn+(-0.0003)Gly+(-0.0147)Tyr+(-0.0122)Val+(-0.0923)Met+(0.0393)Orn;0.708,0.758,0.647,0.640,0.619,0.750,0.650,0.665,(-0.7825)+(0.0347)Ser+(-0.0072)Thr+(0.0001)Pro+(-0.0464)Tyr+(-0.0230)Lys+(0.0543)Ile;0.708,0.755,0.713,0.725,0.715,0.787,0.624,0.713,(1.3145)+(0.0421)Ser+(-0.1288)Asn+(-0.0006)Thr+(-0.0135)Arg+(0.0051)Pro+(-0.0085)Lys;0.708,0.753,0.803,0.824,0.779,0.832,0.775,0.803,(2.3620)+(-0.0701)Asn+(0.0050)Gln+(-0.0047)Ala+(-0.1533)Met+(0.0225)Orn+(-0.0002)Leu;0.708,0.760,0.713,0.697,0.766,0.759,0.611,0.708,(1.9531)+(-0.1424)Asn+(0.0057)Gly+(0.0030)Thr+(-0.1110)Cit+(0.0391)Orn+(0.0376)Phe;0.708,0.759,0.630,0.617,0.612,0.745,0.619,0.648,(-0.0892)+(0.0349)S

er+(-0.0022)Gln+(0.0001)Pro+(-0.0496)Tyr+(-0.0237)Lys+(0.0552)Ile;0.708,0.758,0.637,0.629,0.616,0.746,0.622,0.653,(-0.5679)+(0.0305)Ser+(-0.0009)Pro+(-0.0516)Tyr+(0.0115)Orn+(-0.0264)Lys+(0.0521)Ile;0.708,0.755,0.717,0.719,0.745,0.796,0.597,0.714,(4.0349)+(-0.1091)Cit+(0.0010)Arg+(0.0036)Pro+(-0.0482)Tyr+(0.0582)Orn+(-0.0170)Lys;0.708,0.754,0.773,0.804,0.791,0.815,0.621,0.758,(2.8086)+(0.0052)Gln+(0.0219)Thr+(-0.0653)Cit+(-0.0110)Arg+(-0.0050)Val+(-0.2534)Met;0.708,0.753,0.825,0.844,0.803,0.851,0.801,0.825,(3.4516)+(-0.0992)Asn+(0.0076)Gln+(-0.0063)Ala+(-0.0818)Cit+(0.0024)Arg+(-0.0052)Lys;0.708,0.752,0.781,0.816,0.772,0.789,0.704,0.770,(2.6008)+(-0.0832)Asn+(-0.0017)Gly+(0.0057)Gln+(0.0201)Thr+(-0.0193)Tyr+(-0.1993)Met;0.707,0.755,0.785,0.811,0.779,0.827,0.694,0.778,(6.0254)+(-0.0855)Asn+(0.0204)Thr+(-0.0057)Ala+(-0.0708)Cit+(-0.0247)Tyr+(-0.0045)Lys;0.707,0.756,0.745,0.757,0.669,0.816,0.823,0.766,(2.1941)+(0.0019)Gln+(-0.0110)Ala+(0.0070)Pro+(-0.0395)Tyr+(-0.0170)Lys+(0.0545)Ile;0.707,0.754,0.783,0.815,0.741,0.819,0.758,0.783,(2.8032)+(0.0039)Gln+(-0.0065)Ala+(0.0151)Pro+(-0.0074)Tyr+(-0.0077)Val+(-0.1948)Met;0.707,0.752,0.734,0.758,0.690,0.847,0.680,0.744,(1.2810)+(0.0293)Ser+(-0.0089)Ala+(-0.0207)Arg+(0.0132)Pro+(-0.0080)Val+(-0.0086)Lys;0.707,0.749,0.779,0.814,0.741,0.774,0.770,0.775,(3.1066)+(-0.0774)Asn+(-0.0060)Ala+(-0.0060)Arg+(-0.0466)Tyr+(-0.0041)Lys+(0.0796)Phe;0.707,0.755,0.752,0.743,0.701,0.822,0.827,0.773,(2.3476)+(0.0034)Thr+(-0.0123)Ala+(-0.0135)Arg+(0.0059)Pro+(-0.0170)Lys+(0.0517)Ile;0.707,0.751,0.772,0.802,0.758,0.802,0.703,0.766,(4.8757)+(-0.0749)Asn+(-0.0144)Tyr+(-0.0125)Val+(-0.0953)Met+(0.0386)Orn+(0.0014)Lys;0.707,0.752,0.746,0.772,0.729,0.786,0.687,0.743,(3.7554)+(-0.0015)Gly+(0.0105)Pro+(-0.0169)Tyr+(-0.0127)Val+(-0.1934)Met+(0.0312)Orn;0.707,0.752,0.770,0.787,0.710,0.816,0.819,0.783,(5.7056)+(-0.1010)Asn+(-0.0066)Ala+(0.0129)Pro+(-0.0186)Tyr+(-0.0353)Val+(0.0516)Leu;0.707

,0.753,0.762,0.803,0.729,0.727,0.746,0.751,(1.4770)+(-0.1139)Asn+(0.0055)Gln+(0.0039)Pro+(-0.0650)Tyr+(-0.0106)Lys+(0.0698)Phe;0.707,0.759,0.683,0.709,0.627,0.696,0.720,0.688,(-1.8977)+(0.0432)Ser+(-0.0101)Gly+(-0.0126)Thr+(-0.0823)Tyr+(0.0135)Orn+(0.0573)Phe;0.707,0.751,0.774,0.790,0.739,0.825,0.767,0.780,(4.9646)+(-0.1038)Asn+(-0.0071)Ala+(0.0115)Pro+(-0.0150)Val+(0.0339)Orn+(-0.0012)Lys;0.707,0.753,0.695,0.715,0.700,0.793,0.565,0.693,(1.9926)+(0.0284)Ser+(-0.0720)Cit+(0.0088)Pro+(-0.0392)Tyr+(-0.0047)Val+(-0.0127)Lys;0.707,0.761,0.733,0.737,0.770,0.777,0.614,0.725,(3.9280)+(0.0241)Thr+(-0.0754)Cit+(0.0070)Pro+(-0.2754)Met+(-0.0067)Lys+(0.0068)Leu;0.707,0.756,0.750,0.782,0.727,0.796,0.679,0.746,(2.5720)+(0.0027)Gln+(0.0103)Pro+(-0.0142)Tyr+(-0.0123)Val+(-0.2183)Met+(0.0258)Orn;0.707,0.758,0.676,0.711,0.612,0.760,0.654,0.684,(-0.9452)+(0.0282)Ser+(-0.0034)Gln+(-0.0085)Ala+(-0.0621)Tyr+(0.0135)Orn+(0.0685)Phe;0.707,0.748,0.780,0.799,0.744,0.811,0.781,0.784,(2.0107)+(-0.0002)Gly+(0.0038)Gln+(-0.0079)Ala+(0.0131)Pro+(-0.2236)Met+(0.0025)Leu;0.707,0.756,0.774,0.789,0.778,0.793,0.713,0.768,(0.8676)+(-0.1348)Asn+(0.0047)Gly+(0.0071)Gln+(-0.0928)Cit+(-0.0131)Lys+(0.0590)Phe;0.707,0.752,0.753,0.779,0.778,0.800,0.597,0.739,(4.3679)+(0.0004)Gly+(0.0228)Thr+(-0.0663)Cit+(-0.0052)Tyr+(-0.0045)Val+(-0.2310)Met;0.707,0.752,0.769,0.776,0.749,0.849,0.732,0.777,(1.7891)+(0.0340)Ser+(-0.0056)Gly+(0.0018)Gln+(-0.0070)Ala+(-0.0749)Cit+(-0.0139)Lys;0.707,0.760,0.714,0.696,0.741,0.787,0.651,0.719,(3.4201)+(-0.0993)Asn+(0.0054)Gly+(0.0114)Thr+(-0.0887)Cit+(-0.0174)Lys+(0.0446)Ile;0.707,0.753,0.680,0.649,0.607,0.810,0.817,0.721,(-1.4875)+(0.0370)Ser+(-0.0054)Gly+(-0.0039)Gln+(-0.0141)Ala+(0.0466)Ile+(0.0141)Phe;0.707,0.760,0.752,0.785,0.742,0.803,0.649,0.745,(0.8925)+(0.0373)Ser+(-0.1492)Asn+(0.0034)Gln+(-0.0008)Thr+(-0.0171)Arg+(-0.0060)Leu;0.707,0.752,0.759,0.781,0.760,0.770,0.692,0.751,(1.8760)+(-0.0757)Asn+(0.0047)Gln

+(0.0148)Thr+(0.0051)Pro+(-0.2483)Met+(0.0091)Orn;0.707,0.757,0.714,0.735,0.638,0.815,0.747,0.734,(0.7658)+(0.0336)Ser+(-0.0095)Gly+(-0.0098)Ala+(0.0121)Pro+(-0.0547)Tyr+(0.0140)Orn;0.707,0.755,0.749,0.774,0.735,0.839,0.647,0.748,(1.9628)+(0.0269)Ser+(-0.0004)Thr+(-0.0067)Ala+(-0.0713)Cit+(-0.0087)Arg+(-0.0231)Tyr;0.707,0.753,0.754,0.767,0.749,0.856,0.657,0.757,(2.0657)+(0.0292)Ser+(-0.0001)Thr+(-0.0069)Ala+(-0.0760)Cit+(-0.0033)Arg+(-0.0114)Lys;0.707,0.752,0.780,0.805,0.775,0.812,0.698,0.773,(4.2389)+(-0.0568)Asn+(-0.0001)Gly+(0.0219)Thr+(-0.0041)Ala+(-0.1799)Met+(-0.0022)Lys;0.707,0.759,0.711,0.713,0.697,0.753,0.706,0.717,(2.2694)+(-0.0827)Cit+(0.0057)Arg+(-0.0639)Tyr+(-0.0219)Lys+(0.0452)Ile+(0.0587)Phe;0.707,0.751,0.771,0.789,0.746,0.809,0.746,0.773,(3.6681)+(0.0013)Gly+(-0.0077)Ala+(-0.0081)Arg+(0.0142)Pro+(-0.1842)Met+(0.0004)Lys;0.707,0.751,0.822,0.852,0.795,0.856,0.778,0.820,(3.5818)+(-0.1111)Asn+(0.0017)Gly+(0.0073)Gln+(-0.0050)Ala+(-0.0757)Cit+(-0.0055)Val;0.707,0.754,0.729,0.733,0.758,0.805,0.599,0.724,(4.1551)+(-0.1100)Cit+(0.0009)Arg+(-0.0434)Tyr+(0.0604)Orn+(-0.0161)Lys+(-0.0018)Leu;0.707,0.752,0.749,0.750,0.739,0.781,0.745,0.754,(5.7994)+(-0.1528)Asn+(0.0186)Thr+(-0.0474)Cit+(0.0061)Pro+(-0.0417)Val+(0.0549)Leu;0.707,0.754,0.686,0.699,0.698,0.778,0.558,0.683,(1.5652)+(0.0306)Ser+(-0.0774)Cit+(0.0071)Pro+(-0.0423)Tyr+(-0.0164)Lys+(0.0041)Leu;0.707,0.762,0.672,0.713,0.643,0.737,0.575,0.667,(-1.2984)+(0.0285)Ser+(-0.0690)Tyr+(0.0199)Orn+(-0.0214)Lys+(-0.0102)Leu+(0.0821)Phe;0.707,0.750,0.786,0.787,0.766,0.825,0.794,0.793,(5.1403)+(-0.0746)Asn+(-0.0104)Ala+(-0.0777)Cit+(0.0053)Arg+(0.0127)Pro+(-0.0004)Leu;0.707,0.754,0.698,0.682,0.660,0.781,0.758,0.720,(-0.6822)+(0.0431)Ser+(-0.0088)Gly+(-0.0309)Val+(-0.0248)Lys+(0.0391)Leu+(0.0447)Phe;0.707,0.754,0.757,0.798,0.753,0.811,0.618,0.745,(2.7204)+(0.0042)Gln+(0.0202)Thr+(-0.0206)Arg+(0.0103)Pro+(-0.0112)Val+(-0.2688)Met;0.707,0.751,0.773,0.802

,0.766,0.806,0.686,0.765,(5.1708)+(-0.0667)Asn+(-0.0107)Arg+(-0.0146)Tyr+(-0.0123)Val+(-0.0818)Met+(0.0422)Orn;0.707,0.755,0.793,0.802,0.761,0.829,0.810,0.801,(4.1932)+(-0.0031)Ala+(-0.0024)Arg+(-0.0348)Val+(-0.2011)Met+(0.0013)Lys+(0.0624)Leu;0.707,0.754,0.734,0.751,0.775,0.771,0.578,0.719,(3.5561)+(0.0017)Gly+(0.0243)Thr+(-0.0730)Cit+(-0.0053)Arg+(-0.2753)Met+(0.0076)Leu;0.707,0.750,0.750,0.801,0.714,0.770,0.676,0.740,(1.5819)+(-0.0067)Ala+(-0.0230)Arg+(-0.0572)Tyr+(0.0304)Orn+(-0.0167)Leu+(0.0801)Phe;0.707,0.757,0.743,0.752,0.679,0.805,0.805,0.760,(3.0843)+(-0.0109)Ala+(-0.0104)Arg+(0.0080)Pro+(-0.0370)Tyr+(-0.0123)Lys+(0.0535)Ile;0.707,0.756,0.757,0.800,0.752,0.805,0.620,0.744,(5.6441)+(-0.1071)Asn+(0.0149)Thr+(-0.0175)Arg+(-0.0330)Tyr+(-0.0147)Val+(0.0396)Orn;0.707,0.753,0.726,0.720,0.715,0.784,0.724,0.736,(1.4356)+(0.0503)Ser+(-0.1306)Asn+(-0.0065)Gly+(-0.0019)Thr+(0.0045)Pro+(-0.0115)Lys;0.707,0.753,0.722,0.697,0.740,0.827,0.674,0.734,(3.3720)+(-0.1032)Cit+(0.0016)Pro+(-0.0304)Val+(0.0612)Orn+(-0.0203)Lys+(0.0405)Leu;0.707,0.749,0.775,0.797,0.766,0.809,0.711,0.771,(4.6199)+(-0.0723)Asn+(0.0002)Gly+(-0.0129)Val+(-0.1203)Met+(0.0368)Orn+(0.0013)Lys;0.707,0.747,0.776,0.783,0.723,0.823,0.834,0.791,(5.4983)+(-0.1057)Asn+(-0.0070)Ala+(-0.0032)Arg+(0.0121)Pro+(-0.0374)Val+(0.0534)Leu;0.707,0.758,0.783,0.775,0.775,0.820,0.796,0.792,(2.1038)+(-0.1064)Asn+(0.0076)Gln+(-0.0870)Cit+(-0.0036)Pro+(-0.0172)Lys+(0.0452)Ile;0.707,0.754,0.704,0.710,0.669,0.828,0.670,0.720,(0.3406)+(0.0289)Ser+(-0.0023)Gln+(-0.0117)Ala+(-0.0269)Arg+(0.0106)Pro+(0.0146)Orn;0.707,0.751,0.779,0.792,0.755,0.812,0.768,0.782,(2.1907)+(-0.1006)Asn+(0.0024)Gly+(-0.0088)Ala+(-0.0152)Arg+(0.0216)Orn+(0.0495)Phe;0.707,0.751,0.762,0.766,0.747,0.845,0.721,0.770,(2.2232)+(0.0360)Ser+(-0.0053)Gly+(-0.0005)Thr+(-0.0068)Ala+(-0.0717)Cit+(-0.0127)Lys;0.707,0.754,0.761,0.788,0.778,0.791,0.632,0.747,(2.4598)+(-0.0004)Gly+(0.0048)Gln+(0.0200)Thr+(-

0.0769)Cit+(-0.0095)Tyr+(-0.2602)Met;0.707,0.751,0.748,0.768,0.737,0.792,0.689,0.747,(3.5022)+(-0.0008)Gly+(0.0098)Pro+(-0.0128)Val+(-0.2155)Met+(0.0299)Orn+(-0.0011)Lys;0.707,0.762,0.768,0.761,0.793,0.789,0.720,0.766,(1.2465)+(-0.1462)Asn+(0.0061)Gln+(-0.1027)Cit+(-0.0078)Arg+(0.0353)Orn+(0.0296)Phe;0.707,0.752,0.780,0.812,0.749,0.816,0.734,0.778,(5.2088)+(-0.0936)Asn+(-0.0035)Ala+(-0.0236)Tyr+(-0.0118)Val+(0.0409)Orn+(-0.0006)Lys;0.707,0.757,0.632,0.657,0.611,0.707,0.557,0.633,(-0.9533)+(0.0358)Ser+(-0.0026)Gln+(0.0057)Pro+(-0.0707)Tyr+(-0.0215)Lys+(0.0759)Phe;0.707,0.751,0.721,0.768,0.685,0.740,0.657,0.713,(1.3068)+(0.0003)Gln+(-0.0651)Tyr+(-0.0150)Val+(0.0319)Orn+(-0.0132)Lys+(0.0801)Phe;0.707,0.751,0.788,0.808,0.759,0.820,0.769,0.789,(5.2178)+(-0.0425)Asn+(-0.0061)Ala+(-0.0039)Arg+(0.0149)Pro+(-0.0088)Val+(-0.1249)Met;0.707,0.749,0.749,0.799,0.686,0.762,0.739,0.746,(1.4783)+(-0.0028)Gly+(-0.0061)Ala+(-0.0605)Tyr+(-0.0152)Val+(0.0301)Orn+(0.0791)Phe;0.707,0.760,0.798,0.798,0.772,0.837,0.827,0.808,(4.0617)+(-0.0034)Ala+(-0.0019)Arg+(0.0139)Tyr+(-0.0363)Val+(-0.2197)Met+(0.0651)Leu;0.707,0.757,0.732,0.733,0.688,0.824,0.756,0.750,(0.0653)+(0.0345)Ser+(-0.0066)Gly+(-0.0117)Ala+(-0.0276)Arg+(0.0098)Pro+(0.0125)Orn;0.707,0.754,0.749,0.770,0.744,0.805,0.660,0.745,(3.8112)+(-0.0152)Arg+(0.0101)Pro+(-0.0137)Val+(-0.2045)Met+(0.0327)Orn+(0.0020)Lys;0.707,0.749,0.769,0.799,0.779,0.792,0.650,0.755,(2.1904)+(-0.0708)Asn+(0.0056)Gln+(0.0188)Thr+(-0.0188)Arg+(-0.22

49)Met+(0.0142)Orn;0.707,0.752,0.717,0.730,0.659,0.839,0.717,0.736,(0.8321)+(0.0267)Ser+(-0.0098)Ala+(-0.0246)Arg+(0.0122)Pro+(-0.0291)Val+(0.0378)Leu;0.707,0.754,0.727,0.728,0.724,0.771,0.701,0.731,(1.1469)+(0.0496)Ser+(-0.1388)Asn+(-0.0056)Gly+(-0.0031)Thr+(-0.0158)Arg+(0.0040)Pro;0.707,0.749,0.783,0.799,0.736,0.808,0.823,0.791,(1.2536)+(-0.1288)Asn+(0.0016)Gly+(0.0034)Gln+(-0.0108)Ala+(0.0081)Pro+(0.0459)Phe

;0.707,0.755,0.729,0.743,0.683,0.837,0.710,0.743,(0.5217)+(0.0333)Ser+(-0.0070)Thr+(-0.0099)Ala+(-0.0172)Arg+(0.0125)Pro+(-0.0110)Lys;0.706,0.757,0.766,0.771,0.796,0.808,0.663,0.759,(2.2409)+(0.0044)Gln+(-0.0952)Cit+(-0.0062)Arg+(-0.2161)Met+(0.0415)Orn+(-0.0015)Leu;0.706,0.753,0.776,0.812,0.787,0.812,0.635,0.761,(5.0794)+(-0.0678)Asn+(0.0251)Thr+(-0.0133)Arg+(-0.0103)Val+(-0.1787)Met+(0.0043)Lys;0.706,0.752,0.754,0.770,0.728,0.821,0.716,0.759,(2.0760)+(0.0338)Ser+(-0.0060)Gly+(-0.0017)Thr+(-0.0065)Ala+(-0.0700)Cit+(-0.0295)Tyr;0.706,0.750,0.728,0.713,0.735,0.812,0.691,0.738,(0.7164)+(0.0329)Ser+(-0.0056)Gly+(-0.0181)Thr+(-0.0959)Cit+(-0.0125)Val+(0.0489)Orn;0.706,0.752,0.780,0.791,0.756,0.809,0.783,0.784,(4.1395)+(-0.0329)Asn+(-0.0077)Ala+(0.0133)Pro+(-0.1598)Met+(-0.0009)Lys+(0.0021)Leu;0.706,0.754,0.760,0.776,0.750,0.859,0.668,0.763,(1.6713)+(0.0274)Ser+(0.0016)Gln+(-0.0071)Ala+(-0.0782)Cit+(-0.0044)Arg+(-0.0121)Lys;0.706,0.752,0.742,0.749,0.762,0.812,0.629,0.738,(3.3091)+(-0.0013)Gly+(0.0031)Gln+(-0.1109)Cit+(-0.0469)Tyr+(0.0574)Orn+(-0.0182)Lys;0.706,0.749,0.776,0.801,0.748,0.817,0.739,0.776,(4.3329)+(0.0010)Gly+(-0.0066)Ala+(-0.0072)Arg+(0.0154)Pro+(-0.0075)Val+(-0.1681)Met;0.706,0.756,0.743,0.750,0.735,0.777,0.718,0.745,(0.4903)+(0.0468)Ser+(-0.1569)Asn+(-0.0062)Gly+(0.0033)Gln+(-0.0190)Arg+(0.0029)Pro;0.706,0.749,0.749,0.778,0.706,0.771,0.744,0.750,(1.9695)+(-0.0019)Gly+(-0.0072)Ala+(-0.0557)Tyr+(0.0284)Orn+(-0.0157)Lys+(0.0665)Phe;0.706,0.749,0.771,0.795,0.740,0.813,0.744,0.773,(4.1975)+(0.0005)Gly+(-0.0066)Ala+(0.0157)Pro+(-0.0061)Tyr+(-0.0074)Val+(-0.1699)Met;0.706,0.759,0.659,0.708,0.635,0.722,0.531,0.649,(-1.9226)+(0.0321)Ser+(-0.0058)Thr+(-0.0298)Arg+(-0.0727)Tyr+(0.0140)Orn+(0.0644)Phe;0.706,0.753,0.739,0.745,0.682,0.823,0.784,0.758,(0.1414)+(0.0406)Ser+(-0.0063)Gly+(-0.0112)Thr+(-0.0109)Ala+(-0.0207)Arg+(0.0121)Pro;0.706,0.752,0.765,0.772,0.724,0.803,0.801,0.775,(2.0192)+(-0.1162)Asn

+(0.0022)Gly+(-0.0111)Ala+(0.0082)Pro+(0.0137)Orn+(0.0437)Phe;0.706,0.751,0.762,0.788,0.739,0.803,0.715,0.761,(2.4771)+(-0.0018)Gly+(0.0031)Gln+(0.0096)Pro+(-0.0129)Val+(-0.2370)Met+(0.0255)Orn;0.706,0.754,0.709,0.703,0.658,0.766,0.788,0.729,(0.8234)+(-0.0021)Gly+(-0.0006)Gln+(-0.0068)Pro+(0.0049)Orn+(0.1548)Ile+(-0.0918)Leu;0.706,0.758,0.755,0.770,0.780,0.795,0.637,0.745,(2.3291)+(0.0052)Gln+(0.0228)Thr+(-0.0822)Cit+(-0.2764)Met+(-0.0098)Lys+(0.0114)Leu;0.706,0.752,0.785,0.815,0.747,0.822,0.762,0.786,(2.6815)+(0.0039)Gln+(-0.0066)Ala+(0.0149)Pro+(-0.0082)Val+(-0.2070)Met+(0.0008)Lys;0.706,0.748,0.753,0.780,0.783,0.801,0.586,0.738,(4.4689)+(0.0005)Gly+(0.0242)Thr+(-0.0619)Cit+(-0.0067)Arg+(-0.0049)Val+(-0.2340)Met;0.706,0.755,0.741,0.750,0.735,0.788,0.695,0.742,(1.9665)+(0.0478)Ser+(-0.1355)Asn+(-0.0062)Gly+(-0.0170)Arg+(0.0057)Pro+(-0.0102)Leu;0.706,0.754,0.710,0.708,0.642,0.843,0.760,0.738,(0.7758)+(0.0289)Ser+(-0.0095)Ala+(0.0110)Pro+(-0.0286)Val+(-0.0176)Lys+(0.0455)Leu;0.706,0.755,0.737,0.746,0.760,0.816,0.608,0.732,(3.2508)+(0.0028)Gln+(-0.1123)Cit+(-0.0453)Tyr+(0.0576)Orn+(-0.0178)Lys+(-0.0014)Leu;0.706,0.752,0.775,0.798,0.776,0.804,0.690,0.767,(2.6052)+(0.0011)Gly+(0.0055)Gln+(-0.0687)Cit+(0.0104)Pro+(-0.0076)Val+(-0.2268)Met;0.706,0.763,0.741,0.776,0.716,0.801,0.659,0.738,(1.2817)+(0.0366)Ser+(-0.1385)Asn+(0.0030)Gln+(-0.0284)Tyr+(-0.0069)Lys+(0.0021)Leu;0.706,0.751,0.783,0.796,0.761,0.808,0.774,0.785,(4.2811)+(-0.0310)Asn+(-0.0075)Ala+(-0.0055)Arg+(0.0135)Pro+(-0.1549)Met+(0.0008)Lys;0.706,0.750,0.752,0.777,0.740,0.732,0.726,0.744,(2.9911)+(-0.1662)Asn+(0.0021)Gly+(0.0132)Thr+(0.0057)Pro+(-0.0234)Val+(0.0780)Phe;0.706,0.750,0.572,0.581,0.543,0.650,0.554,0.582,(-1.7002)+(0.0327)Ser+(-0.0050)Gln+(0.0013)Pro+(-0.0862)Tyr+(0.0307)Ile+(0.0457)Phe;0.706,0.753,0.724,0.701,0.742,0.829,0.671,0.736,(3.3586)+(0.0004)Gly+(-0.1041)Cit+(-0.0300)Val+(0.0618)Orn+(-0.0202)Lys+(0.0409)Leu;0.706,0.753,0.756,

0.782,0.736,0.802,0.692,0.753,(2.4233)+(0.0029)Gln+(0.0096)Pro+(-0.0122)Val+(-0.2329)Met+(0.0255)Orn+(-0.0023)Lys;0.706,0.760,0.713,0.716,0.700,0.752,0.702,0.717,(2.3289)+(-0.0778)Cit+(0.0004)Pro+(-0.0634)Tyr+(-0.0204)Lys+(0.0439)Ile+(0.0589)Phe;0.706,0.751,0.762,0.788,0.786,0.797,0.621,0.748,(2.3892)+(-0.0003)Gly+(0.0053)Gln+(0.0217)Thr+(-0.0712)Cit+(-0.0105)Arg+(-0.2713)Met;0.706,0.750,0.794,0.827,0.771,0.804,0.749,0.788,(3.1840)+(-0.0778)Asn+(-0.0001)Gly+(0.0062)Gln+(0.0102)Pro+(-0.0121)Val+(-0.1670)Met;0.706,0.748,0.754,0.781,0.715,0.795,0.733,0.756,(4.5062)+(-0.0731)Asn+(-0.0084)Ala+(-0.0123)Arg+(0.0110)Pro+(-0.0375)Tyr+(0.0289)Orn;0.706,0.759,0.644,0.665,0.626,0.729,0.561,0.645,(-0.8504)+(0.0339)Ser+(-0.0028)Gln+(-0.0680)Tyr+(0.0202)Orn+(-0.0230)Lys+(0.0753)Phe;0.706,0.755,0.764,0.793,0.741,0.808,0.707,0.762,(2.2799)+(0.0029)Gly+(-0.0076)Ala+(-0.0799)Cit+(-0.0423)Tyr+(-0.0103)Lys+(0.0841)Phe;0.706,0.749,0.700,0.697,0.738,0.819,0.545,0.700,(1.5046)+(0.0223)Ser+(-0.0018)Gln+(-0.0866)Cit+(-0.0190)Arg+(-0.0138)Val+(0.0463)Orn;0.706,0.756,0.715,0.703,0.708,0.766,0.727,0.726,(0.4049)+(0.0500)Ser+(-0.1547)Asn+(-0.0056)Gly+(-0.0090)Thr+(0.0023)Pro+(0.0156)Orn;0.706,0.759,0.792,0.795,0.769,0.814,0.821,0.799,(5.1761)+(-0.0628)Asn+(0.0016)Arg+(0.0088)Tyr+(-0.0403)Val+(-0.1736)Met+(0.0672)Leu;0.706,0.751,0.769,0.779,0.744,0.809,0.764,0.774,(3.4174)+(0.0011)Gly+(-0.0080)Ala+(0.0137)Pro+(-0.1944)Met+(-0.0026)Lys+(0.0046)Leu;0.706,0.760,0.744,0.772,0.736,0.804,0.646,0.739,(0.8379)+(0.0383)Ser+(-0.1409)Asn+(0.0033)Gln+(0.0007)Thr+(-0.0144)Arg+(-0.0076)Lys;0.706,0.749,0.774,0.824,0.745,0.737,0.730,0.759,(1.0649)+(-0.1179)Asn+(0.0003)Gly+(0.0064)Gln+(-0.0172)Arg+(-0.0636)Tyr+(0.0694)Phe;0.706,0.757,0.785,0.819,0.780,0.815,0.685,0.775,(3.8450)+(-0.1229)Asn+(0.0072)Gln+(0.0164)Thr+(-0.0782)Cit+(-0.0377)Tyr+(-0.0084)Lys;0.706,0.752,0.765,0.758,0.701,0.834,0.865,0.789,(1.5005)+(-0.0003)Gly+(0.0018)Gln+(-0.0002)Thr+

(-0.0113)Ala+(-0.0210)Lys+(0.0571)Ile;0.706,0.748,0.695,0.681,0.700,0.802,0.648,0.708,(0.2029)+(0.0257)Ser+(-0.0178)Thr+(-0.0978)Cit+(-0.0266)Val+(0.0487)Orn+(0.0276)Leu;0.706,0.757,0.728,0.724,0.682,0.808,0.778,0.748,(-0.9580)+(0.0399)Ser+(-0.0077)Gly+(-0.0091)Ala+(0.0184)Orn+(-0.0242)Lys+(0.0483)Phe;0.706,0.756,0.787,0.829,0.754,0.819,0.722,0.781,(3.9395)+(-0.1221)Asn+(0.0047)Gln+(-0.0301)Tyr+(-0.0138)Val+(0.0359)Orn+(-0.0020)Lys;0.706,0.754,0.778,0.783,0.799,0.822,0.691,0.774,(3.1201)+(-0.1376)Asn+(0.0053)Gln+(0.0025)Thr+(-0.1069)Cit+(0.0457)Orn+(-0.0135)Leu;0.706,0.752,0.777,0.799,0.777,0.791,0.707,0.769,(1.9645)+(-0.0585)Asn+(0.0058)Gln+(-0.0148)Arg+(0.0057)Pro+(-0.2068)Met+(0.0183)Orn;0.706,0.752,0.730,0.728,0.719,0.788,0.715,0.738,(1.7024)+(0.0491)Ser+(-0.1333)Asn+(-0.0067)Gly+(0.0049)Pro+(-0.0105)Lys+(-0.0041)Leu;0.706,0.751,0.801,0.818,0.792,0.818,0.760,0.797,(2.2699)+(0.0063)Gln+(-0.0058)Ala+(-0.0793)Cit+(-0.0005)Arg+(-0.1849)Met+(0.0105)Leu;0.706,0.756,0.778,0.778,0.771,0.804,0.773,0.782,(4.6253)+(-0.0519)Cit+(0.0065)Arg+(-0.0324)Val+(-0.2119)Met+(-0.0009)Lys+(0.0584)Leu;0.706,0.756,0.774,0.773,0.796,0.809,0.704,0.771,(2.3549)+(-0.1347)Asn+(0.0060)Gln+(-0.1037)Cit+(-0.0072)Arg+(-0.0010)Pro+(0.0405)Orn;0.706,0.755,0.732,0.743,0.776,0.778,0.579,0.719,(3.7910)+(0.0018)Gly+(0.0253)Thr+(-0.0775)Cit+(-0.2626)Met+(-0.0079)Lys+(0.0117)Leu;0.706,0.754,0.719,0.736,0.721,0.792,0.619,0.717,(1.6095)+(0.0411)Ser+(-0.1292)Asn+(-0.0145)Arg+(0.0059)Pro+(-0.0067)Lys+(-0.0051)Leu;0.706,0.754,0.787,0.818,0.777,0.830,0.692,0.779,(6.1916)+(-0.0957)Asn+(0.0196)Thr+(-0.0048)Ala+(-0.0648)Cit+(-0.0228)Tyr+(-0.0052)Val;0.706,0.750,0.811,0.843,0.783,0.859,0.751,0.809,(3.7729)+(-0.1124)Asn+(0.0052)Gln+(-0.0040)Ala+(-0.0166)Arg+(-0.0138)Val+(0.0365)Orn;0.706,0.750,0.701,0.716,0.694,0.758,0.633,0.700,(1.5234)+(0.0387)Ser+(-0.0081)Gly+(-0.0557)Cit+(-0.0165)Arg+(0.0076)Pro+(-0.0591)Tyr;0.706,0.746,0.734,0.764,0.736,0.743

,0.645,0.722,(3.9315)+(-0.0581)Asn+(-0.0003)Gly+(0.0204)Thr+(0.0076)Pro+(-0.0236)Tyr+(-0.2075)Met;0.706,0.752,0.782,0.794,0.761,0.808,0.776,0.785,(4.2440)+(-0.0299)Asn+(-0.0076)Ala+(-0.0051)Arg+(0.0134)Pro+(-0.1567)Met+(0.0016)Leu;0.706,0.751,0.784,0.817,0.755,0.759,0.777,0.777,(1.8800)+(-0.1615)Asn+(0.0017)Gly+(0.0045)Gln+(0.0056)Pro+(-0.0217)Val+(0.0710)Phe;0.706,0.753,0.755,0.776,0.767,0.723,0.696,0.741,(1.7114)+(-0.0637)Cit+(0.0023)Arg+(-0.0261)Tyr+(-0.2287)Met+(-0.0070)Leu+(0.1064)Phe;0.706,0.749,0.762,0.787,0.758,0.745,0.715,0.751,(3.6774)+(-0.1507)Asn+(0.0185)Thr+(-0.0171)Arg+(0.0056)Pro+(-0.0235)Val+(0.0782)Phe;0.706,0.757,0.737,0.748,0.772,0.778,0.602,0.725,(4.1207)+(0.0235)Thr+(-0.0702)Cit+(-0.0046)Arg+(0.0080)Pro+(-0.2659)Met+(-0.0038)Lys;0.706,0.754,0.764,0.792,0.783,0.808,0.621,0.751,(2.7280)+(0.0051)Gln+(0.0210)Thr+(-0.0771)Cit+(-0.0083)Tyr+(-0.2427)Met+(-0.0060)Lys;0.706,0.753,0.732,0.731,0.725,0.790,0.709,0.739,(1.4495)+(0.0455)Ser+(-0.1611)Asn+(-0.0063)Gly+(0.0036)Pro+(0.0170)Orn+(-0.0125)Leu;0.706,0.752,0.689,0.699,0.668,0.792,0.635,0.698,(-1.0190)+(0.0342)Ser+(-0.0234)Arg+(-0.0301)Val+(-0.0180)Lys+(0.0344)Leu+(0.0557)Phe;0.706,0.752,0.769,0.793,0.770,0.814,0.672,0.762,(4.0406)+(-0.0518)Asn+(0.0192)Thr+(-0.0047)Ala+(-0.0143)Arg+(-0.1770)Met+(0.0231)Orn;0.706,0.750,0.780,0.812,0.787,0.790,0.673,0.766,(2.3716)+(-0.0704)Asn+(-0.0011)Gly+(0.0063)Gln+(0.0222)Thr+(-0.0176)Arg+(-0.2283)Met;0.706,0.755,0.782,0.786,0.758,0.818,0.797,0.790,(2.7516)+(-0.1051)Asn+(0.0096)Thr+(-0.0086)Ala+(0.0207)Orn+(-0.0132)Lys+(0.0519)Phe;0.706,0.752,0.814,0.843,0.808,0.833,0.735,0.805,(3.1892)+(-0.0825)Asn+(0.0016)Gly+(0.0081)Gln+(-0.0696)Cit+(-0.0059)Val+(-0.1264)Met;0.706,0.757,0.730,0.733,0.766,0.769,0.620,0.722,(2.6868)+(-0.1227)Asn+(0.0054)Gly+(0.0139)Thr+(-0.0871)Cit+(-0.0147)Lys+(0.0612)Phe;0.706,0.747,0.797,0.837,0.741,0.832,0.781,0.798,(4.0944)+(-0.1065)Asn+(0.0052)Gln+(-0.0063)Ala+(0.0133)Pro+(-0.

0273)Tyr+(-0.0109)Val;0.706,0.754,0.768,0.804,0.753,0.803,0.676,0.759
,(5.4147)+(-0.0928)Asn+(-0.0137)Arg+(-0.0279)Tyr+(-0.0145)Val+(0.0436
)Orn+(0.0022)Lys;0.706,0.754,
0.736,0.745,0.760,0.815,0.608,0.732,(3.2105)+(0.0029)Gln+(-0.1114)Cit
+(-0.0013)Arg+(-0.0456)Tyr+(0.0571)Orn+(-0.0179)Lys;0.706,0.751,0.777
,0.816,0.768,0.795,0.683,0.765,(3.4483)+(-0.1337)Asn+(0.0005)Gly+(0.0
069)Gln+(0.0134)Thr+(-0.0786)Cit+(-0.0414)Tyr;0.706,0.750,0.776,0.800
,0.775,0.789,0.707,0.768,(2.0359)+(-0.0792)Asn+(-0.0011)Gly+(0.0051)G
ln+(0.0161)Thr+(-0.2314)Met+(0.0117)Orn;0.706,0.763,0.736,0.706,0.764
,0.776,0.728,0.744,(3.1570)+(-0.1015)Asn+(0.0142)Thr+(-0.0827)Cit+(-0
.0198)Lys+(0.0324)Ile+(0.0366)Phe;0.706,0.748,0.763,0.814,0.735,0.719
,0.721,0.747,(1.1627)+(-0.1170)Asn+(0.0062)Gln+(-0.0174)Arg+(0.0037)P
ro+(-0.0674)Tyr+(0.0666)Phe;0.706,0.758,0.739,0.759,0.724,0.830,0.652
,0.741,(1.6483)+(0.0272)Ser+(-0.0076)Ala+(-0.0748)Cit+(-0.0083)Arg+(-
0.0263)Tyr+(0.0070)Leu;0.706,0.754,0.742,0.743,0.727,0.796,0.728,0.74
9,(1.8010)+(0.0490)Ser+(-0.1305)Asn+(-0.0067)Gly+(0.0003)Thr+(-0.0101
)Lys+(-0.0010)Leu;0.706,0.753,0.736,0.753,0.715,0.826,0.672,0.741,(1.
4406)+(0.0274)Ser+(-0.0033)Thr+(-0.0079)Ala+(-0.0809)Cit+(-0.0257)Tyr
+(0.0076)Leu;0.706,0.750,0.776,0.811,0.784,0.794,0.656,0.761,(2.4147)
+(-0.0705)Asn+(0.0062)Gln+(0.0220)Thr+(-0.0166)Arg+(-0.2196)Met+(-0.0
026)Lys;0.706,0.757,0.728,0.747,0.724,0.795,0.641,0.727,(0.6917)+(0.0
397)Ser+(-0.1408)Asn+(0.0029)Gln+(-0.0153)Arg+(0.0045)Pro+(-0.0089)Ly
s;0.706,0.752,0.753,0.747,0.787,0.805,0.663,0.750,(4.4942)+(-0.1138)A
sn+(0.0042)Thr+(-0.1023)Cit+(0.0019)Pro+(0.0497)Orn+(-0.0146)Leu;0.70
6,0.757,0.737,0.734,0.719,0.783,0.747,0.746,(0.0202)+(0.0486)Ser+(-0.
1637)Asn+(-0.0060)Gly+(0.0023)Gln+(-0.0087)Thr+(0.0150)Orn;0.706,0.75
7,0.731,0.754,0.728,0.800,0.623,0.726,(1.7024)+(0.0401)Ser+(-0.1285)A
sn+(0.0017)Thr+(-0.0126)Arg+(-0.0068)Lys+(-0.0013)Leu;0.706,0.756,0.7

58,0.763,0.735,0.807,0.758,0.766,(0.9058)+(0.0478)Ser+(-0.1440)Asn+(-0.0072)Gly+(0.0034)Gln+(-0.0011)Thr+(-0.0112)Lys;0.706,0.755,0.716,0.730,0.722,0.781,0.623,0.714,(0.2677)+(0.0391)Ser+(-0.1594)Asn+(0.0022)Gln+(-0.0203)Arg+(0.0025)Pro+(0.0138)Orn;0.706,0.751,0.770,0.819,0.750,0.726,0.716,0.752,(3.1192)+(-0.0869)Asn+(-0.0093)Arg+(-0.0562)Tyr+(-0.0009)Lys+(-0.0165)Leu+(0.0903)Phe;0.705,0.759,0.741,0.773,0.732,0.707,0.697,0.727,(3.2124)+(-0.0912)Asn+(-0.0667)Cit+(0.0014)Arg+(0.0049)Pro+(-0.0636)Tyr+(0.0729)Phe;0.705,0.756,0.741,0.740,0.721,0.796,0.745,0.751,(0.7994)+(0.0482)Ser+(-0.1460)Asn+(-0.0071)Gly+(0.0031)Gln+(0.0037)Pro+(-0.0127)Lys;0.705,0.750,0.785,0.812,0.781,0.799,0.712,0.776,(2.3991)+(-0.0759)Asn+(-0.0012)Gly+(0.0058)Gln+(0.0196)Thr+(-0.2195)Met+(-0.0049)Lys;0.705,0.752,0.762,0.809,0.738,0.722,0.714,0.746,(2.8117)+(-0.0968)Asn+(0.0013)Gly+(-0.0565)Tyr+(-0.0033)Lys+(-0.0155)Leu+(0.0900)Phe;0.705,0.750,0.776,0.798,0.769,0.805,0.707,0.770,(3.7977)+(-0.0560)Asn+(0.0002)Gly+(0.0215)Thr+(-0.0046)Ala+(-0.1985)Met+(0.0056)Leu;0.705,0.755,0.720,0.727,0.751,0.803,0.577,0.714,(4.1056)+(0.0063)Thr+(-0.1113)Cit+(-0.0468)Tyr+(0.0586)Orn+(-0.0179)Lys+(-0.0010)Leu;0.705,0.755,0.729,0.738,0.754,0.813,0.591,0.724,(3.3008)+(0.0024)Gln+(0.0045)Thr+(-0.1134)Cit+(-0.0477)Tyr+(0.0565)Orn+(-0.0192)Lys;0.705,0.755,0.787,0.801,0.791,0.823,0.715,0.782,(4.6674)+(-0.0400)Asn+(0.0041)Gly+(-0.0054)Ala+(-0.0723)Cit+(-0.1129)Met+(0.0103)Leu;0.705,0.754,0.722,0.728,0.752,0.802,0.587,0.717,(4.2095)+(-0.0008)Gly+(0.0071)Thr+(-0.1104)Cit+(-0.0482)Tyr+(0.0585)Orn+(-0.0182)Lys;0.705,0.750,0.749,0.774,0.727,0.837,0.666,0.751,(1.5239)+(0.0254)Ser+(0.0010)Gln+(-0.0034)Thr+(-0.0070)Ala+(-0.0795)Cit+(-0.0237)Tyr;0.705,0.754,0.778,0.782,0.797,0.819,0.696,0.774,(3.0801)+(-0.1339)Asn+(0.0054)Gln+(-0.1064)Cit+(0.0015)Pro+(0.0459)Orn+(-0.0143)Leu;0.705,0.754,0.776,0.814,0.751,0.840,0.681,0.772,(2.3955)+(0.0025)Gln+(0.0125)Thr+(-0.0036)A

la+(-0.0085)Val+(-0.2244)Met+(0.0235)Orn;0.705,0.749,0.773,0.796,0.74
2,0.812,0.748,0.775,(3.9246)+(0.0007)Gly+(-0.0067)Ala+(0.0156)Pro+(-0
.0084)Val+(-0.1882)Met+(0.0029)Lys;0.705,0.747,0.699,0.713,0.683,0.74
9,0.663,0.702,(1.0981)+(0.0388)Ser+(-0.0074)Gly+(-0.0081)Thr+(-0.0674
)Cit+(0.0076)Pro+(-0.0571)Tyr;0.705,0.748,0.799,0.835,0.771,0.771,0.7
82,0.790,(2.0920)+(-0.1455)Asn+(0.0059)Gln+(-0.0152)Arg+(0.0055)Pro+(
-0.0210)Val+(0.0691)Phe;0.705,0.748,0.694,0.688,0.709,0.810,0.598,0.7
01,(0.7224)+(0.0207)Ser+(-0.0811)Cit+(-0.0211)Arg+(-0.0302)Val+(0.044
0)Orn+(0.0307)Leu;0.705,0.752,0.726,0.704,0.745,0.827,0.674,0.738,(3.
4667)+(-0.1014)Cit+(-0.0024)Arg+(-0.0302)Val+(0.0617)Orn+(-0.0193)Lys
+(0.0407)Leu;0.705,0.758,0.645,0.667,0.602,0.672,0.657,0.649,(-0.9737
)+(0.0420)Ser+(-0.0101)Gly+(-0.0032)Gln+(-0.0897)Tyr+(0.0117)Orn+(0.0
606)Phe;0.705,0.756,0.761,0.768,0.738,0.808,0.756,0.768,(1.0508)+(0.0
471)Ser+(-0.1454)Asn+(-0.0073)Gly+(0.0034)Gln+(-0.0106)Lys+(-0.0021)L
eu;0.705,0.751,0.748,0.783,0.699,0.779,0.732,0.748,(1.1655)+(0.0014)G
ln+(-0.0075)Ala+(-0.0553)Tyr+(0.0257)Orn+(-0.0168)Lys+(0.0667)Phe;0.7
05,0.750,0.576,0.585,0.546,0.655,0.554,0.585,(-1.7069)+(0.0325)Ser+(-
0.0050)Gln+(-0.0852)Tyr+(0.0014)Orn+(0.0318)Ile+(0.0453)Phe;0.705,0.7
54,0.741,0.767,0.727,0.787,0.667,0.737,(3.5753)+(0.0104)Pro+(-0.0150)
Tyr+(-0.0123)Val+(-0.1966)Met+(0.0304)Orn+(-0.0010)Lys;0.705,0.748,0.
796,0.825,0.765,0.824,0.761,0.794,(2.6241)+(-0.0739)Asn+(0.0051)Gln+(
-0.0044)Ala+(-0.0151)Tyr+(-0.1269)Met+(0.0243)Orn;0.705,0.756,0.731,0
.741,0.769,0.765,0.602,0.719,(3.7523)+(0.0235)Thr+(-0.0710)Cit+(-0.00
62)Arg+(0.0075)Pro+(-0.2859)Met+(0.0032)Leu;0.705,0.748,0.729,0.733,0
.682,0.822,0.753,0.747,(0.4880)+(0.0367)Ser+(-0.0063)Gly+(-0.0010)Gln
+(-0.0113)Ala+(-0.0247)Arg+(0.0111)Pro;0.705,0.755,0.725,0.741,0.683,
0.837,0.691,0.738,(0.6084)+(0.0310)Ser+(-0.0101)Ala+(-0.0194)Arg+(0.0
117)Pro+(-0.0130)Lys+(0.0009)Leu;0.705,0.749,0.748,0.766,0.697,0.836,

0.744,0.761,(1.4455)+(0.0359)Ser+(-0.0072)Gly+(-0.0091)Ala+(-0.0244)Arg+(0.0130)Pro+(-0.0109)Val;0.705,0.751,0.792,0.807,0.758,0.812,0.805,0.796,(3.9014)+(-0.1529)Asn+(0.0072)Gln+(-0.0569)Cit+(0.0059)Pro+(-0.0365)Val+(0.0470)Leu;0.705,0.744,0.729,0.748,0.750,0.788,0.595,0.720,(3.7566)+(-0.0011)Gly+(-0.0971)Cit+(-0.0100)Arg+(-0.0507)Tyr+(0.0538)Orn+(-0.0104)Leu;0.705,0.756,0.725,0.743,0.649,0.807,0.776,0.744,(0.7430)+(0.0391)Ser+(-0.0085)Gly+(-0.0093)Thr+(-0.0094)Ala+(0.0137)Pro+(-0.0438)Tyr;0.705,0.745,0.677,0.699,0.675,0.748,0.570,0.673,(0.7528)+(0.0299)Ser+(-0.0002)Gln+(-0.0098)Thr+(-0.0768)Cit+(0.0075)Pro+(-0.0505)Tyr;0.705,0.754,0.703,0.656,0.745,0.801,0.667,0.717,(1.9759)+(-0.1185)Cit+(-0.0061)Pro+(0.0485)Orn+(-0.0309)Lys+(0.0403)Ile+(0.0244)Phe;0.705,0.751,0.761,0.779,0.693,0.825,0.810,0.777,(1.9797)+(0.0032)Gln+(-0.0093)Ala+(-0.0130)Arg+(-0.0352)Tyr+(-0.0147)Lys+(0.0591)Ile;0.705,0.755,0.771,0.791,0.733,0.829,0.753,0.777,(4.9565)+(-0.1178)Asn+(0.0070)Thr+(-0.0071)Ala+(0.0112)Pro+(-0.0160)Val+(0.0308)Orn;0.705,0.754,0.770,0.786,0.746,0.811,0.749,0.773,(3.5470)+(0.0014)Gly+(-0.0079)Ala+(-0.0078)Arg+(0.0139)Pro+(-0.1892)Met+(0.0032)Leu;0.705,0.751,0.758,0.777,0.727,0.823,0.723,0.762,(1.7989)+(0.0316)Ser+(-0.0063)Gly+(0.0013)Gln+(-0.0067)Ala+(-0.0727)Cit+(-0.0323)Tyr;0.705,0.748,0.775,0.782,0.719,0.823,0.836,0.790,(5.4049)+(-0.1123)Asn+(-0.0071)Ala+(0.0121)Pro+(-0.0381)Val+(0.0012)Lys+(0.0538)Leu;0.705,0.753,0.745,0.756,0.718,0.815,0.720,0.752,(1.8183)+(0.0332)Ser+(-0.0057)Gly+(-0.0074)Ala+(-0.0736)Cit+(-0.0330)Tyr+(0.0061)Leu;0.705,0.751,0.803,0.822,0.774,0.814,0.802,0.803,(1.3061)+(-0.1315)Asn+(0.0050)Gln+(0.0113)Thr+(-0.0088)Ala+(-0.0190)Arg+(0.0514)Phe;0.705,0.750,0.790,0.808,0.774,0.801,0.764,0.787,(2.8111)+(-0.0967)Asn+(-0.0072)Ala+(-0.0156)Arg+(0.0282)Orn+(-0.0170)Leu+(0.0631)Phe;0.705,0.752,0.715,0.725,0.708,0.787,0.650,0.718,(0.8938)+(0.0404)Ser+(-0.1524)Asn+(-0.0086)Thr+(0.0045)Pro+(0.0

195)Orn+(-0.0108)Leu;0.705,0.754,0.760,0.775,0.748,0.859,0.673,0.764,(1.6422)+(0.0276)Ser+(0.0015)Gln+(-0.0016)Thr+(-0.0071)Ala+(-0.0809)Cit+(-0.0125)Lys;0.705,0.751,0.764,0.763,0.710,0.835,0.831,0.785,(1.5247)+(0.0025)Gln+(0.0030)Thr+(-0.0110)Ala+(-0.0155)Arg+(-0.0184)Lys+(0.0560)Ile;0.705,0.748,0.789,0.790,0.773,0.831,0.786,0.795,(5.3295)+(-0.0641)Asn+(-0.0101)Ala+(-0.0726)Cit+(0.0125)Pro+(-0.0032)Lys+(0.0010)Leu;0.705,0.755,0.730,0.739,0.659,0.807,0.796,0.750,(2.7755)+(0.0060)Thr+(-0.0110)Ala+(0.0070)Pro+(-0.0419)Tyr+(-0.0172)Lys+(0.0548)Ile;0.705,0.754,0.654,0.630,0.574,0.800,0.775,0.695,(-1.1322)+(0.0308)Ser+(-0.0046)Gln+(-0.0149)Ala+(0.0063)Pro+(-0.0028)Orn+(0.0476)Ile;0.705,0.751,0.793,0.826,0.770,0.799,0.750,0.786,(3.1155)+(-0.0822)Asn+(0.0060)Gln+(0.0104)Pro+(-0.0132)Val+(-0.1744)Met+(0.0040)Lys;0.705,0.760,0.750,0.780,0.739,0.809,0.650,0.745,(0.9431)+(0.0379)Ser+(-0.1404)Asn+(0.0034)Gln+(-0.0145)Arg+(-0.0065)Lys+(-0.0024)Leu;0.705,0.759,0.705,0.762,0.630,0.768,0.666,0.707,(-1.4805)+(0.0219)Ser+(-0.0078)Ala+(-0.0636)Tyr+(0.0144)Orn+(-0.0133)Leu+(0.0783)Phe;0.705,0.750,0.780,0.805,0.743,0.813,0.767,0.782,(2.4155)+(0.0040)Gln+(-0.0074)Ala+(0.0138)Pro+(-0.0101)Tyr+(-0.1953)Met+(-0.0032)Lys;0.705,0.757,0.713,0.722,0.649,0.804,0.757,0.733,(-1.5531)+(0.0359)Ser+(-0.0119)Thr+(-0.0112)Ala+(0.0107)Pro+(-0.0187)Lys+(0.0496)Phe;0.705,0.754,0.661,0.640,0.582,0.812,0.772,0.702,(-1.7311)+(0.0313)Ser+(-0.0045)Gln+(-0.0142)Ala+(-0.0027)Orn+(0.0490)Ile+(0.0171)Phe;0.705,0.759,0.792,0.797,0.768,0.808,0.818,0.798,(5.1296)+(-0.0665)Asn+(0.0081)Tyr+(-0.0413)Val+(-0.1778)Met+(0.0039)Lys+(0.0669)Leu;0.705,0.757,0.754,0.758,0.740,0.804,0.738,0.760,(1.0069)+(0.0442)Ser+(-0.1694)Asn+(-0.0067)Gly+(0.0023)Gln+(0.0166)Orn+(-0.0109)Leu;0.705,0.754,0.653,0.712,0.598,0.699,0.577,0.646,(-1.3665)+(0.0199)Ser+(0.0057)Pro+(-0.0786)Tyr+(-0.0182)Val+(0.0150)Orn+(0.0785)Phe;0.705,0.753,0.760,0.789,0.781,0.801,0.609,0.745,(2.5438

)+(0.0052)Gln+(0.0221)Thr+(-0.0707)Cit+(-0.0105)Arg+(-0.0093)Tyr+(-0.2564)Met;0.705,0.746,0.776,0.794,0.768,0.830,0.708,0.775,(4.7784)+(-0.0992)Asn+(0.0032)Gly+(0.0140)Thr+(-0.0077)Ala+(-0.0806)Cit+(0.0044)Leu;0.705,0.751,0.762,0.776,0.686,0.823,0.838,0.781,(2.1215)+(-0.0013)Gly+(0.0027)Gln+(-0.0095)Ala+(-0.0376)Tyr+(-0.0175)Lys+(0.0595)Ile;0.705,0.757,0.789,0.788,0.781,0.810,0.796,0.794,(5.7150)+(-0.0550)Asn+(-0.0416)Cit+(0.0090)Tyr+(-0.0358)Val+(-0.1622)Met+(0.0611)Leu;0.705,0.752,0.689,0.648,0.735,0.806,0.619,0.702,(2.1900)+(0.0030)Gly+(-0.1210)Cit+(-0.0058)Pro+(0.0477)Orn+(-0.0293)Lys+(0.0466)Ile;0.705,0.751,0.746,0.770,0.726,0.838,0.658,0.748,(1.8699)+(0.0262)Ser+(-0.0025)Thr+(-0.0067)Ala+(-0.0767)Cit+(-0.0225)Tyr+(-0.0011)Val;0.705,0.750,0.804,0.825,0.808,0.808,0.740,0.795,(2.6265)+(-0.0674)Asn+(0.0083)Gln+(-0.0749)Cit+(-0.1590)Met+(-0.0037)Lys+(0.0046)Leu;0.705,0.759,0.781,0.786,0.765,0.823,0.774,0.787,(3.7743)+(0.0015)Gly+(-0.0032)Arg+(0.0124)Tyr+(-0.0377)Val+(-0.2431)Met+(0.0646)Leu;0.705,0.752,0.776,0.786,0.748,0.800,0.795,0.782,(2.6333)+(-0.1088)Asn+(0.0110)Thr+(-0.0110)Ala+(-0.0150)Arg+(0.0083)Pro+(0.0486)Phe;0.705,0.749,0.651,0.606,0.634,0.735,0.747,0.681,(-2.3012)+(0.0503)Ser+(-0.0074)Gly+(-0.0147)Thr+(-0.0300)Lys+(0.0425)Ile+(0.0219)Phe;0.705,0.749,0.799,0.825,0.802,0.811,0.716,0.789,(2.5846)+(-0.0755)Asn+(0.0020)Gly+(0.0079)Gln+(-0.0766)Cit+(0.0000)Arg+(-0.1547)Met;0.705,0.752,0.744,0.766,0.779,0.792,0.577,0.728,(4.1779)+(0.0011)Gly+(0.0241)Thr+(-0.0694)Cit+(-0.0043)Arg+(-0.2408)Met+(-0.0035)Lys;0.705,0.750,0.769,0.790,0.742,0.804,0.743,0.770,(3.8794)+(0.0010)Gly+(-0.0075)Ala+(-0.0077)Arg+(0.0145)Pro+(-0.0091)Tyr+(-0.1694)Met;0.705,0.748,0.720,0.700,0.739,0.799,0.674,0.728,(0.0193)+(0.0351)Ser+(-0.0051)Gly+(-0.0213)Thr+(-0.1018)Cit+(0.0441)Orn+(-0.0126)Leu;0.705,0.748,0.808,0.830,0.773,0.820,0.812,0.809,(1.0451)+(-0.1191)Asn+(0.0016)Gly+(0.0052

)Gln+(-0.0082)Ala+(-0.0157)Arg+(0.0531)Phe;0.705,0.747,0.803,0.824,0.805,0.804,0.739,0.793,(2.5420)+(-0.0706)Asn+(0.0082)Gln+(-0.0745)Cit+(-0.0005)Arg+(-0.1649)Met+(0.0027)Leu;0.705,0.757,0.738,0.754,0.726,0.804,0.673,0.739,(0.5453)+(0.0385)Ser+(-0.1600)Asn+(0.0019)Gln+(-0.0075)Thr+(0.0195)Orn+(-0.0086)Leu;0.705,0.750,0.766,0.776,0.724,0.799,0.804,0.776,(2.0869)+(-0.1232)Asn+(0.0022)Gly+(0.0061)Thr+(-0.0112)Ala+(0.0086)Pro+(0.0481)Phe;0.705,0.750,0.655,0.605,0.641,0.753,0.743,0.686,(-1.6820)+(0.0489)Ser+(-0.0077)Gly+(-0.0160)Thr+(0.0146)Orn+(-0.0292)Lys+(0.0437)Ile;0.705,0.755,0.737,0.764,0.730,0.795,0.634,0.731,(0.9470)+(0.0377)Ser+(-0.1509)Asn+(0.0030)Gln+(-0.0192)Arg+(0.0053)Pro+(-0.0096)Leu;0.705,0.754,0.740,0.719,0.785,0.767,0.683,0.738,(2.7600)+(-0.1301)Asn+(0.0054)Thr+(-0.1038)Cit+(-0.0022)Pro+(0.0400)Orn+(0.0305)Phe;0.705,0.752,0.719,0.728,0.667,0.794,0.752,0.735,(1.6716)+(0.0415)Ser+(-0.0100)Gly+(-0.0356)Tyr+(-0.0273)Val+(-0.0164)Lys+(0.0445)Leu;0.705,0.758,0.781,0.784,0.762,0.822,0.781,0.787,(3.6668)+(0.0014)Gly+(0.0119)Tyr+(-0.0382)Val+(-0.2483)Met+(0.0001)Lys+(0.0654)Leu;0.705,0.751,0.775,0.816,0.742,0.744,0.759,0.765,(1.4065)+(-0.1138)Asn+(-0.0002)Gly+(0.0058)Gln+(-0.0616)Tyr+(-0.0102)Lys+(0.0721)Phe;0.704,0.758,0.738,0.778,0.743,0.797,0.581,0.725,(4.3187)+(0.0229)Thr+(-0.0173)Arg+(0.0114)Pro+(-0.0142)Tyr+(-0.0107)Val+(-0.2333)Met;0.704,0.753,0.776,0.779,0.758,0.771,0.807,0.779,(4.1796)+(-0.1339)Asn+(-0.0488)Cit+(0.0019)Arg+(-0.0361)Val+(0.0405)Leu+(0.0699)Phe;0.704,0.757,0.789,0.799,0.760,0.804,0.814,0.794,(5.2469)+(-0.0672)Asn+(-0.0003)Arg+(-0.0402)Val+(-0.1637)Met+(0.0042)Lys+(0.0653)Leu;0.704,0.757,0.721,0.713,0.672,0.820,0.772,0.744,(0.5888)+(0.0380)Ser+(-0.0081)Gly+(-0.0103)Ala+(0.0100)Pro+(0.0183)Orn+(-0.0206)Lys;0.704,0.757,0.660,0.705,0.625,0.719,0.573,0.656,(-1.3481)+(0.0306)Ser+(0.0064)Pro+(-0.0721)Tyr+(-0.0196)Lys+(-0.0116)Leu+(0.0835)Phe;0.704,0.752,0.722,0.743,0.722,0.786,

0.621,0.718,(1.5266)+(0.0407)Ser+(-0.1364)Asn+(-0.0021)Thr+(-0.0166)Arg+(0.0060)Pro+(-0.0087)Leu;0.704,0.752,0.800,0.816,0.796,0.793,0.769,0.794,(1.3900)+(-0.1297)Asn+(0.0077)Gln+(-0.0830)Cit+(-0.0093)Lys+(-0.0128)Leu+(0.0647)Phe;0.704,0.752,0.738,0.793,0.672,0.763,0.710,0.735,(0.8752)+(0.0020)Thr+(-0.0065)Ala+(-0.0599)Tyr+(-0.0152)Val+(0.0270)Orn+(0.0805)Phe;0.704,0.749,0.747,0.758,0.724,0.786,0.740,0.752,(5.5711)+(-0.1525)Asn+(0.0203)Thr+(-0.0122)Arg+(0.0065)Pro+(-0.0459)Val+(0.0590)Leu;0.704,0.754,0.704,0.659,0.746,0.805,0.666,0.719,(2.5682)+(-0.1205)Cit+(0.0046)Arg+(-0.0061)Pro+(0.0492)Orn+(-0.0299)Lys+(0.0448)Ile;0.704,0.752,0.774,0.807,0.760,0.822,0.686,0.769,(2.4419)+(-0.0028)Gly+(0.0030)Gln+(0.0139)Thr+(-0.0106)Val+(-0.2489)Met+(0.0229)Orn;0.704,0.751,0.778,0.796,0.752,0.805,0.766,0.780,(4.5731)+(-0.0332)Asn+(-0.0073)Ala+(-0.0049)Arg+(0.0140)Pro+(-0.0128)Tyr+(-0.1318)Met;0.704,0.760,0.668,0.705,0.640,0.733,0.579,0.664,(-0.9135)+(0.0333)Ser+(-0.0019)Gln+(-0.0655)Tyr+(-0.0184)Lys+(-0.0078)Leu+(0.0856)Phe;0.704,0.748,0.802,0.826,0.805,0.817,0.718,0.791,(2.6707)+(-0.0741)Asn+(0.0020)Gly+(0.0080)Gln+(-0.0762)Cit+(-0.1488)Met+(-0.0018)Lys;0.704,0.749,0.661,0.628,0.660,0.744,0.687,0.680,(-1.7078)+(0.0470)Ser+(-0.0073)Gly+(-0.0222)Arg+(-0.0297)Lys+(0.0387)Ile+(0.0247)Phe;0.704,0.748,0.775,0.801,0.736,0.807,0.768,0.778,(2.1691)+(0.0038)Gln+(-0.0077)Ala+(0.0136)Pro+(-0.0108)Tyr+(-0.2083)Met+(0.0026)Leu;0.704,0.756,0.744,0.711,0.760,0.772,0.778,0.755,(3.0297)+(-0.0852)Asn+(-0.0827)Cit+(0.0089)Arg+(-0.0188)Lys+(0.0350)Ile+(0.0352)Phe;0.704,0.751,0.801,0.818,0.792,0.817,0.760,0.797,(2.2641)+(0.0062)Gln+(-0.0058)Ala+(-0.0797)Cit+(0.0002)Tyr+(-0.1856)Met+(0.0105)Leu;0.704,0.749,0.768,0.787,0.738,0.804,0.752,0.770,(3.6956)+(0.0007)Gly+(-0.0076)Ala+(0.0145)Pro+(-0.0093)Tyr+(-0.1769)Met+(-0.0011)Lys;0.704,0.748,0.779,0.806,0.738,0.808,0.773,0.781,(2.3183)+(-0.0008)Gly+(0.0040)Gln+(-0.0076)Ala+(0.0138)Pro+(-0.

0117)Tyr+(-0.2018)Met;0.704,0.758,0.719,0.697,0.737,0.787,0.691,0.728,(3.2608)+(-0.0886)Asn+(0.0058)Gly+(-0.0909)Cit+(0.0084)Arg+(-0.0167)Lys+(0.0465)Ile;0.704,0.749,0.755,0.781,0.784,0.804,0.594,0.741,(4.5670)+(0.0246)Thr+(-0.0614)Cit+(-0.0064)Arg+(-0.0049)Val+(-0.2319)Met+(-0.0007)Lys;0.704,0.752,0.650,0.706,0.587,0.699,0.598,0.647,(-1.2952)+(0.0222)Ser+(0.0058)Pro+(-0.0754)Tyr+(-0.0246)Val+(0.0169)Leu+(0.0734)Phe;0.704,0.754,0.818,0.838,0.794,0.839,0.802,0.818,(3.1365)+(-0.1063)Asn+(0.0074)Gln+(-0.0071)Ala+(-0.0820)Cit+(-0.0003)Arg+(0.0027)Leu;0.704,0.752,0.769,0.803,0.755,0.803,0.682,0.761,(5.5047)+(-0.0886)Asn+(-0.0006)Gly+(-0.0127)Arg+(-0.0278)Tyr+(-0.0139)Val+(0.0443)Orn;0.704,0.751,0.803,0.837,0.773,0.780,0.789,0.795,(1.7304)+(-0.1555)Asn+(0.0016)Gly+(0.0050)Gln+(-0.0194)Val+(-0.0017)Lys+(0.0743)Phe;0.704,0.750,0.691,0.706,0.676,0.746,0.641,0.692,(1.2430)+(0.0356)Ser+(-0.0079)Gly+(-0.0001)Gln+(-0.0698)Cit+(0.0069)Pro+(-0.0632)Tyr;0.704,0.750,0.784,0.799,0.780,0.766,0.765,0.778,(3.8289)+(-0.1144)Asn+(-0.0571)Cit+(0.0008)Arg+(-0.0162)Val+(-0.0014)Lys+(0.0801)Phe;0.704,0.746,0.791,0.803,0.767,0.833,0.780,0.796,(5.8676)+(-0.0773)Asn+(-0.0085)Ala+(-0.0635)Cit+(0.0140)Pro+(-0.0083)Val+(0.0016)Lys;0.704,0.748,0.779,0.802,0.778,0.814,0.692,0.772,(4.8826)+(-0.0666)Asn+(-0.0118)Arg+(-0.0136)Val+(-0.1127)Met+(0.0396)Orn+(0.0033)Lys;0.704,0.746,0.781,0.795,0.768,0.820,0.745,0.782,(3.9393)+(-0.0483)Asn+(0.0005)Gly+(-0.0047)Ala+(-0.1273)Met+(0.0304)Orn+(-0.0043)Lys;0.704,0.749,0.828,0.855,0.800,0.854,0.796,0.826,(3.7218)+(-0.1056)Asn+(0.0077)Gln+(-0.0050)Ala+(-0.0738)Cit+(-0.0052)Val+(-0.0020)Lys;0.704,0.745,0.706,0.738,0.714,0.729,0.587,0.692,(1.4188)+(-0.0004)Gly+(-0.1052)Cit+(-0.0763)Tyr+(0.0499)Orn+(-0.0213)Leu+(0.0794)Phe;0.704,0.753,0.772,0.792,0.764,0.811,0.711,0.770,(3.6753)+(-0.0603)Asn+(0.0169)Thr+(-0.0050)Ala+(-0.1847)Met+(0.0198)Orn+(0.0017)Leu;0.704,0.752,0.745,0.768,0.777,0.794,0.583,0.730,(

4.2790)+(0.0008)Gly+(0.0238)Thr+(-0.0712)Cit+(-0.0079)Tyr+(-0.2291)Me
t+(-0.0041)Lys;0.704,0.751,0.724,0.757,0.688,0.782,0.668,0.724,(2.212
4)+(0.0401)Ser+(-0.0103)Gly+(-0.0247)Arg+(0.0105)Pro+(-0.0496)Tyr+(-0
.0114)Val;0.704,0.747,0.717,0.722,0.679,0.805,0.721,0.732,(-0.7914)+(
0.0264)Ser+(-0.0101)Ala+(-0.0798)Cit+(-0.0198)Val+(0.0242)Leu+(0.0562
)Phe;0.704,0.757,0.679,0.725,0.644,0.737,0.593,0.675,(-1.3573)+(0.031
3)Ser+(-0.0021)Thr+(-0.0650)Tyr+(-0.0185)Lys+(-0.0081)Leu+(0.0833)Phe
;0.704,0.751,0.735,0.755,0.712,0.827,0.663,0.739,(1.3829)+(0.0251)Ser
+(0.0005)Gln+(-0.0081)Ala+(-0.0832)Cit+(-0.0285)Tyr+(0.0072)Leu;0.704
,0.748,0.770,0.796,0.770,0.794,0.684,0.761,(2.2737)+(-0.0755)Asn+(0.0
050)Gln+(0.0160)Thr+(-0.2117)Met+(0.0155)Orn+(-0.0068)Lys;0.704,0.751
,0.723,0.775,0.646,0.760,0.719,0.725,(1.1740)+(-0.0087)Ala+(0.0108)Pr
o+(-0.0614)Tyr+(-0.0155)Val+(0.0238)Orn+(0.0730)Phe;0.704,0.749,0.782
,0.819,0.773,0.799,0.688,0.770,(3.5921)+(-0.1323)Asn+(0.0070)Gln+(0.0
137)Thr+(-0.0770)Cit+(-0.0403)Tyr+(-0.0026)Leu;0.704,0.746,0.761,0.77
7,0.774,0.782,0.674,0.752,(1.8990)+(0.0017)Gly+(0.0054)Gln+(-0.0776)C
it+(0.0080)Pro+(-0.2492)Met+(0.0015)Leu;0.704,0.765,0.743,0.760,0.694
,0.832,0.738,0.756,(1.5975)+(0.0373)Ser+(-0.0095)Gly+(-0.0055)Ala+(-0
.0366)Tyr+(0.0282)Orn+(-0.0159)Lys;0.704,0.750,0.788,0.795,0.785,0.84
0,0.738,0.790,(5.4344)+(-0.0847)Asn+(0.0181)Thr+(-0.0077)Ala+(-0.0773
)Cit+(-0.0082)Lys+(0.0071)Leu;0.704,0.752,0.785,0.814,0.750,0.815,0.7
59,0.784,(2.4423)+(0.0047)Gln+(-0.0073)Ala+(-0.0123)Arg+(0.0137)Pro+(
-0.0107)Tyr+(-0.1902)Met;0.704,0.751,0.809,0.825,0.775,0.835,0.822,0.
814,(3.8320)+(-0.1435)Asn+(0.0079)Gln+(-0.0585)Cit+(-0.0342)Val+(-0.0
035)Lys+(0.0497)Leu;0.704,0.751,0.669,0.634,0.658,0.760,0.714,0.692,(
-1.1450)+(0.0488)Ser+(-0.0071)Gly+(-0.0098)Thr+(-0.0167)Arg+(-0.0251)
Lys+(0.0459)Ile;0.704,0.746,0.714,0.734,0.737,0.782,0.566,0.705,(3.54
33)+(-0.0958)Cit+(-0.0112)Arg+(0.0053)Pro+(-0.0552)Tyr+(0.0513)Orn+(-

0.0125)Leu;0.704,0.746,0.731,0.755,0.749,0.796,0.580,0.720,(2.8771)+(0.0020)Gln+(-0.0982)Cit+(-0.0127)Arg+(-0.0515)Tyr+(0.0507)Orn+(-0.0104)Leu;0.704,0.750,0.763,0.784,0.773,0.796,0.663,0.754,(5.2457)+(-0.0517)Asn+(0.0037)Gly+(-0.0592)Cit+(0.0110)Pro+(-0.0087)Val+(-0.1411)Met;0.704,0.746,0.708,0.730,0.683,0.771,0.659,0.711,(2.0440)+(0.0346)Ser+(-0.0084)Gly+(-0.0608)Cit+(0.0093)Pro+(-0.0543)Tyr+(-0.0087)Val;0.704,0.758,0.699,0.700,0.664,0.803,0.692,0.715,(-0.8633)+(0.0331)Ser+(-0.0027)Gln+(-0.0092)Ala+(0.0190)Orn+(-0.0224)Lys+(0.0534)Phe;0.704,0.755,0.757,0.758,0.742,0.829,0.731,0.765,(1.9923)+(0.0042)Gly+(-0.0125)Ala+(-0.0932)Cit+(0.0114)Pro+(-0.0139)Lys+(0.0589)Phe;0.704,0.753,0.776,0.792,0.748,0.803,0.772,0.779,(4.4283)+(-0.0371)Asn+(-0.0074)Ala+(0.0139)Pro+(-0.0131)Tyr+(-0.1363)Met+(0.0002)Lys;0.704,0.751,0.810,0.844,0.757,0.829,0.817,0.812,(3.9147)+(-0.1363)Asn+(0.0070)Gln+(-0.0097)Arg+(-0.0197)Tyr+(-0.0368)Val+(0.0522)Leu;0.704,0.750,0.775,0.809,0.784,0.788,0.656,0.759,(2.2667)+(-0.0714)Asn+(0.0061)Gln+(0.0217)Thr+(-0.0176)Arg+(-0.2279)Met+(0.0006)Leu;0.704,0.759,0.710,0.717,0.700,0.784,0.662,0.716,(2.3363)+(0.0035)Gln+(0.0099)Thr+(-0.0864)Cit+(-0.0551)Tyr+(-0.0228)Lys+(0.0528)Ile;0.704,0.752,0.761,0.765,0.751,0.798,0.744,0.765,(5.9052)+(-0.1472)Asn+(0.0210)Thr+(-0.0451)Cit+(-0.0041)Arg+(-0.0406)Val+(0.0572)Leu;0.704,0.751,0.776,0.811,0.760,0.788,0.708,0.767,(3.0493)+(-0.1167)Asn+(

0.0017)Gly+(0.0071)Gln+(-0.0790)Cit+(0.0058)Pro+(-0.0407)Tyr;0.704,0.750,0.765,0.768,0.747,0.761,0.797,0.768,(4.2493)+(-0.1357)Asn+(-0.0475)Cit+(0.0057)Pro+(-0.0373)Val+(0.0393)Leu+(0.0662)Phe;0.704,0.750,0.705,0.751,0.665,0.729,0.649,0.699,(1.4418)+(0.0055)Pro+(-0.0687)Tyr+(-0.0159)Val+(0.0299)Orn+(-0.0132)Lys+(0.0774)Phe;0.704,0.746,0.727,0.766,0.672,0.761,0.714,0.728,(1.5184)+(-0.0105)Ala+(-0.0227)Arg+(0.0104)Pro+(-0.0605)Tyr+(0.0203)Orn+(0.0597)Phe;0.704,0.750,0.662,0.628,0.

662,0.759,0.685,0.683,(-0.9257)+(0.0448)Ser+(-0.0076)Gly+(-0.0217)Arg+(0.0120)Orn+(-0.0288)Lys+(0.0406)Ile;0.704,0.750,0.733,0.747,0.730,0.801,0.654,0.733,(2.3297)+(0.0398)Ser+(-0.0077)Gly+(-0.0580)Cit+(-0.0074)Arg+(-0.0357)Tyr+(-0.0118)Lys;0.704,0.754,0.724,0.743,0.719,0.777,0.647,0.722,(0.2353)+(0.0405)Ser+(-0.1523)Asn+(0.0028)Gln+(-0.0039)Thr+(-0.0178)Arg+(0.0039)Pro;0.704,0.750,0.721,0.733,0.666,0.832,0.721,0.738,(0.1616)+(0.0336)Ser+(-0.0011)Gln+(-0.0110)Thr+(-0.0109)Ala+(-0.0205)Arg+(0.0126)Pro;0.704,0.750,0.757,0.775,0.738,0.825,0.697,0.759,(4.6766)+(0.0113)Thr+(-0.0103)Ala+(-0.0799)Cit+(0.0139)Pro+(-0.0341)Tyr+(-0.0086)Lys;0.703,0.753,0.716,0.735,0.653,0.789,0.741,0.730,(1.3281)+(0.0323)Ser+(-0.0114)Gly+(-0.0562)Tyr+(-0.0303)Val+(0.0259)Orn+(0.0363)Leu;0.703,0.751,0.755,0.780,0.781,0.801,0.599,0.740,(4.5346)+(0.0236)Thr+(-0.0659)Cit+(-0.0059)Tyr+(-0.0041)Val+(-0.2244)Met+(-0.0020)Lys;0.703,0.752,0.773,0.807,0.743,0.790,0.734,0.768,(2.6816)+(-0.0063)Ala+(-0.0683)Cit+(-0.0452)Tyr+(-0.0067)Val+(-0.0070)Lys+(0.0904)Phe;0.703,0.755,0.642,0.671,0.614,0.719,0.568,0.643,(-1.4880)+(0.0305)Ser+(0.0041)Pro+(-0.0721)Tyr+(0.0155)Orn+(-0.0248)Lys+(0.0707)Phe;0.703,0.749,0.775,0.790,0.739,0.795,0.794,0.780,(2.6117)+(-0.1131)Asn+(-0.0098)Ala+(0.0093)Pro+(0.0201)Orn+(-0.0184)Leu+(0.0586)Phe;0.703,0.755,0.769,0.768,0.712,0.835,0.840,0.789,(1.4857)+(0.0001)Gly+(0.0027)Gln+(-0.0109)Ala+(-0.0144)Arg+(-0.0178)Lys+(0.0564)Ile;0.703,0.749,0.799,0.828,0.797,0.811,0.721,0.789,(2.7489)+(-0.0768)Asn+(0.0018)Gly+(0.0080)Gln+(-0.0756)Cit+(-0.0083)Tyr+(-0.1388)Met;0.703,0.759,0.725,0.732,0.674,0.834,0.734,0.743,(-0.3825)+(0.0319)Ser+(-0.0147)Thr+(-0.0113)Ala+(-0.0229)Arg+(0.0113)Pro+(0.0181)Orn;0.703,0.751,0.718,0.754,0.703,0.709,0.656,0.706,(2.8957)+(-0.1114)Asn+(0.0174)Thr+(-0.0719)Tyr+(0.0211)Orn+(-0.0154)Lys+(0.0750)Phe;0.703,0.744,0.733,0.734,0.717,0.777,0.727,0.739,(1.4341)+(0.0484)Ser+(-0.1461)Asn+(-0.0061)Gly+(-0.

0051)Thr+(0.0052)Pro+(-0.0095)Leu;0.703,0.753,0.780,0.781,0.757,0.831,0.785,0.789,(1.5717)+(0.0034)Gln+(-0.0124)Ala+(-0.0912)Cit+(0.0103)Pro+(-0.0152)Lys+(0.0527)Phe;0.703,0.754,0.777,0.781,0.760,0.775,0.805,0.780,(4.2460)+(-0.1280)Asn+(-0.0478)Cit+(-0.0354)Val+(-0.0018)Lys+(0.0406)Leu+(0.0703)Phe;0.703,0.753,0.683,0.653,0.609,0.814,0.819,0.724,(-1.0978)+(0.0367)Ser+(-0.0056)Gly+(-0.0035)Gln+(-0.0136)Ala+(-0.0010)Orn+(0.0501)Ile;0.703,0.750,0.818,0.849,0.808,0.830,0.751,0.809,(3.3671)+(-0.0814)Asn+(0.0084)Gln+(-0.0672)Cit+(-0.0061)Tyr+(-0.0059)Val+(-0.1161)Met;0.703,0.750,0.776,0.798,0.776,0.815,0.690,0.770,(4.9005)+(-0.0641)Asn+(0.0002)Gly+(-0.0107)Arg+(-0.0127)Val+(-0.1077)Met+(0.0402)Orn;0.703,0.745,0.703,0.736,0.711,0.728,0.580,0.689,(1.3097)+(0.0006)Thr+(-0.1060)Cit+(-0.0767)Tyr+(0.0494)Orn+(-0.0213)Leu+(0.0798)Phe;0.703,0.753,0.814,0.852,0.787,0.785,0.792,0.804,(1.8741)+(-0.1455)Asn+(0.0063)Gln+(-0.0158)Arg+(-0.0198)Val+(0.0014)Lys+(0.0731)Phe;0.703,0.752,0.804,0.851,0.761,0.838,0.744,0.799,(4.0050)+(-0.1312)Asn+(0.0053)Gln+(0.0144)Thr+(-0.0035)Ala+(-0.0261)Tyr+(-0.0097)Val;0.703,0.750,0.785,0.793,0.743,0.811,0.832,0.795,(1.4163)+(-0.1274)Asn+(0.0033)Gln+(-0.0110)Ala+(0.0074)Pro+(0.0115)Orn+(0.0405)Phe;0.703,0.747,0.768,0.786,0.779,0.797,0.681,0.761,(2.1734)+(0.0015)Gly+(0.0058)Gln+(-0.0761)Cit+(0.0082)Pro+(-0.2315)Met+(-0.0041)Lys;0.703,0.746,0.705,0.742,0.709,0.728,0.581,0.690,(0.9392)+(0.0010)Gln+(-0.1072)Cit+(-0.0775)Tyr+(0.0483)Orn+(-0.0214)Leu+(0.0798)Phe;0.703,0.758,0.694,0.696,0.682,0.826,0.620,0.706,(0.6917)+(0.0280)Ser+(-0.0222)Arg+(-0.0335)Val+(0.0295)Orn+(-0.0178)Lys+(0.0450)Leu;0.703,0.748,0.771,0.813,0.770,0.789,0.645,0.754,(2.6706)+(-0.0760)Asn+(0.0062)Gln+(0.0228)Thr+(-0.0177)Arg+(-0.0175)Tyr+(-0.1942)Met;0.703,0.748,0.801,0.828,0.798,0.801,0.736,0.791,(2.7228)+(-0.0729)Asn+(0.0083)Gln+(-0.0741)Cit+(-0.0108)Tyr+(-0.1451)Met+(0.0030)Leu;0.703,0.748,0.798,0.822,0.795,0.780,0.755,

0.788,(1.2414)+(-0.1390)Asn+(0.0075)Gln+(-0.0776)Cit+(-0.0071)Arg+(-0.0179)Leu+(0.0639)Phe;0.703,0.754,0.758,0.788,0.727,0.862,0.671,0.762,(0.9670)+(0.0257)Ser+(-0.0077)Thr+(-0.0064)Ala+(-0.0244)Arg+(-0.0101)Val+(0.0308)Orn;0.703,0.744,0.729,0.747,0.659,0.785,0.784,0.744,(2.4525)+(-0.0001)Gly+(-0.0115)Ala+(-0.0175)Arg+(0.0086)Pro+(-0.0443)Tyr+(0.0465)Ile;0.703,0.757,0.780,0.776,0.776,0.808,0.779,0.785,(4.4671)+(-0.0513)Cit+(0.0056)Arg+(0.0097)Tyr+(-0.0338)Val+(-0.2298)Met+(0.0599)Leu;0.703,0.753,0.775,0.791,0.747,0.801,0.772,0.778,(4.3605)+(-0.0361)Asn+(-0.0075)Ala+(0.0138)Pro+(-0.0130)Tyr+(-0.1396)Met+(0.0017)Leu;0.703,0.751,0.771,0.801,0.753,0.833,0.687,0.768,(3.5157)+(-0.0019)Gly+(0.0148)Thr+(-0.0036)Ala+(-0.0090)Val+(-0.2105)Met+(0.0273)Orn;0.703,0.750,0.764,0.793,0.750,0.805,0.687,0.759,(4.0503)+(-0.0658)Asn+(0.0172)Thr+(-0.0045)Ala+(-0.0170)Tyr+(-0.1527)Met+(0.0225)Orn;0.703,0.748,0.673,0.699,0.684,0.758,0.523,0.666,(1.0329)+(0.0277)Ser+(0.0001)Gln+(-0.0671)Cit+(-0.0159)Arg+(0.0074)Pro+(-0.0534)Tyr;0.703,0.743,0.736,0.754,0.745,0.755,0.653,0.727,(3.1314)+(-0.0571)Asn+(0.0002)Gly+(0.0158)Thr+(0.0056)Pro+(-0.2409)Met+(0.0138)Orn;0.703,0.754,0.647,0.678,0.591,0.663,0.673,0.651,(-1.7397)+(0.0388)Ser+(-0.0113)Gly+(0.0041)Pro+(-0.0960)Tyr+(0.0061)Orn+(0.0550)Phe;0.703,0.752,0.775,0.788,0.751,0.809,0.768,0.779,(3.7763)+(-0.0079)Ala+(-0.0068)Arg+(0.0138)Pro+(-0.1845)Met+(-0.0007)Lys+(0.0031)Leu;0.703,0.749,0.759,0.779,0.747,0.739,0.745,0.753,(3.3841)+(-0.1570)Asn+(0.0153)Thr+(0.0054)Pro+(-0.0225)Val+(-0.0035)Lys+(0.0764)Phe;0.703,0.759,0.719,0.727,0.716,0.801,0.644,0.722,(1.1575)+(0.0403)Ser+(-0.1368)Asn+(-0.0042)Thr+(0.0235)Orn+(-0.0104)Lys+(-0.0029)Leu;0.703,0.754,0.807,0.839,0.749,0.826,0.829,0.811,(3.9514)+(-0.1416)Asn+(0.0063)Gln+(-0.0208)Tyr+(-0.0376)Val+(-0.0013)Lys+(0.0541)Leu;0.703,0.753,0.790,0.809,0.737,0.811,0.832,0.797,(3.8524)+(-0.1544)Asn+(0.0056)Gln+(0.0062)Pro+(-0.0414)Val+(-0.0020)Ly

s+(0.0531)Leu;0.703,0.747,0.760,0.790,0.745,0.769,0.710,0.753,(2.2655)+(-0.0704)Asn+(0.0050)Gln+(0.0066)Pro+(-0.0238)Tyr+(-0.1761)Met+(0.0181)Orn;0.703,0.744,0.735,0.760,0.755,0.760,0.614,0.722,(3.7211)+(-0.0464)Asn+(0.0005)Gly+(0.0218)Thr+(-0.0141)Arg+(0.0067)Pro+(-0.2395)Met;0.703,0.750,0.723,0.767,0.716,0.709,0.628,0.705,(3.1497)+(-0.1072)Asn+(0.0243)Thr+(-0.0154)Arg+(-0.0719)Tyr+(-0.0106)Lys+(0.0818)Phe;0.703,0.754,0.763,0.758,0.753,0.829,0.752,0.773,(2.5672)+(0.0085)Thr+(-0.0127)Ala+(-0.0896)Cit+(0.0104)Pro+(-0.0159)Lys+(0.0549)Phe;0.703,0.750,0.755,0.773,0.727,0.823,0.713,0.759,(2.2582)+(0.0330)Ser+(-0.0062)Gly+(-0.0061)Ala+(-0.0680)Cit+(-0.0295)Tyr+(-0.0020)Val;0.703,0.742,0.739,0.758,0.750,0.759,0.652,0.730,(3.6352)+(-0.0520)Asn+(0.0003)Gly+(0.0194)Thr+(0.0066)Pro+(-0.2327)Met+(-0.0039)Lys;0.703,0.752,0.649,0.681,0.617,0.714,0.586,0.650,(-1.5823)+(0.0336)Ser+(-0.0043)Thr+(0.0054)Pro+(-0.0687)Tyr+(-0.0214)Lys+(0.0721)Phe;0.703,0.750,0.776,0.813,0.769,0.793,0.681,0.764,(2.6471)+(-0.0815)Asn+(0.0056)Gln+(0.0200)Thr+(-0.0164)Tyr+(-0.1903)Met+(-0.0043)Lys;0.703,0.749,0.797,0.831,0.777,0.809,0.738,0.789,(3.2662)+(-0.0722)Asn+(0.0068)Gln+(-0.0106)Arg+(0.0102)Pro+(-0.0118)Val+(-0.1586)Met;0.703,0.749,0.783,0.803,0.782,0.843,0.691,0.780,(5.3516)+(-0.0907)Asn+(0.0026)Gly+(0.0164)Thr+(-0.0067)Ala+(-0.0775)Cit+(-0.0056)Lys;0.703,0.749,0.676,0.700,0.652,0.767,0.595,0.678,(1.3975)+(0.0236)Ser+(-0.0688)Cit+(0.0077)Pro+(-0.0496)Tyr+(-0.0222)Val+(0.0275)Leu;0.703,0.746,0.695,0.728,0.704,0.722,0.572,0.681,(1.3141)+(-0.1044)Cit+(0.0043)Pro+(-0.0801)Tyr+(0.0478)Orn+(-0.0229)Leu+(0.0786)Phe;0.703,0.752,0.746,0.761,0.672,0.819,0.806,0.765,(2.0970)+(0.0019)Gln+(0.0057)Thr+(-0.0096)Ala+(-0.0399)Tyr+(-0.0190)Lys+(0.0603)Ile;0.703,0.745,0.689,0.673,0.707,0.762,0.640,0.696,(-0.7930)+(0.0425)Ser+(-0.0050)Gly+(-0.0760)Cit+(-0.0089)Arg+(-0.0251)Lys+(0.0545)Phe;0.703,0.749,0.769,0.803,0.747,0.798,0.707,0.764,(5.2608)+(-0.

0992)Asn+(-0.0008)Gly+(-0.0293)Tyr+(-0.0139)Val+(0.0412)Orn+(-0.0007)Lys;0.703,0.759,0.661,0.691,0.631,0.735,0.593,0.663,(-1.5310)+(0.0318)Ser+(-0.0052)Thr+(-0.0657)Tyr+(0.0195)Orn+(-0.0227)Lys+(0.0713)Phe;0.703,0.753,0.806,0.827,0.753,0.832,0.840,0.813,(3.7187)+(-0.1508)Asn+(0.0004)Gly+(0.0060)Gln+(-0.0403)Val+(-0.0025)Lys+(0.0560)Leu;0.703,0.749,0.689,0.712,0.680,0.775,0.588,0.689,(-1.2035)+(0.0334)Ser+(-0.0271)Arg+(0.0052)Pro+(-0.0158)Val+(-0.0152)Lys+(0.0616)Phe;0.703,0.745,0.783,0.798,0.748,0.799,0.807,0.788,(2.9985)+(-0.0966)Asn+(-0.0097)Ala+(0.0103)Pro+(-0.0056)Lys+(-0.0128)Leu+(0.0628)Phe;0.703,0.751,0.776,0.806,0.769,0.803,0.690,0.767,(4.3915)+(-0.0607)Asn+(-0.0004)Gly+(0.0223)Thr+(-0.0039)Ala+(-0.0121)Tyr+(-0.1662)Met;0.703,0.750,0.711,0.672,0.745,0.811,0.673,0.725,(1.7515)+(0.0026)Gln+(-0.1197)Cit+(-0.0066)Pro+(0.0464)Orn+(-0.0307)Lys+(0.0454)Ile;0.703,0.749,0.765,0.782,0.736,0.800,0.755,0.768,(3.4657)+(0.0008)Gly+(-0.0079)Ala+(0.0142)Pro+(-0.0096)Tyr+(-0.1865)Met+(0.0033)Leu;0.703,0.755,0.757,0.798,0.738,0.798,0.660,0.748,(5.2983)+(-0.1165)Asn+(0.0119)Thr+(-0.0327)Tyr+(-0.0141)Val+(0.0370)Orn+(-0.0024)Lys;0.703,0.754,0.736,0.756,0.769,0.769,0.588,0.721,(3.9494)+(0.0258)Thr+(-0.0694)Cit+(-0.0058)Arg+(-0.0120)Tyr+(-0.2564)Met+(0.0076)Leu;0.703,0.752,0.764,0.790,0.786,0.807,0.619,0.750,(2.6081)+(0.0054)Gln+(0.0221)Thr+(-0.0726)Cit+(-0.0082)Arg+(-0.2563)Met+(-0.0048)Lys;0.703,0.751,0.766,0.790,0.757,0.752,0.728,0.757,(3.0644)+(-0.1580)Asn+(0.0019)Gly+(0.0159)Thr+(-0.0209)Val+(-0.0036)Lys+(0.0820)Phe;0.703,0.751,0.772,0.794,0.764,0.786,0.719,0.766,(2.0838)+(-0.0695)Asn+(0.0051)Gln+(0.0062)Pro+(-0.2017)Met+(0.0176)Orn+(-0.0063)Leu;0.703,0.750,0.778,0.793,0.743,0.771,0.815,0.780,(3.9539)+(-0.1366)Asn+(-0.0061)Arg+(-0.0402)Val+(0.0007)Lys+(0.0450)Leu+(0.0657)Phe;0.703,0.752,0.741,0.766,0.775,0.785,0.573,0.725,(4.1684)+(0.0008)Gly+(0.0243)Thr+(-0.0674)Cit+(-0.0061)Arg+(-0.0088)Tyr+(-0.2384)Met;0.

703,0.747,0.734,0.763,0.736,0.752,0.639,0.722,(4.0815)+(-0.0559)Asn+(0.0208)Thr+(0.0077)Pro+(-0.0225)Tyr+(-0.2002)Met+(-0.0034)Lys;0.703,0.751,0.703,0.660,0.745,0.806,0.654,0.716,(2.6058)+(0.0018)Thr+(-0.1170)Cit+(-0.0060)Pro+(0.0483)Orn+(-0.0293)Lys+(0.0442)Ile;0.703,0.752,0.728,0.706,0.744,0.834,0.679,0.741,(3.0518)+(0.0010)Gln+(-0.1048)Cit+(-0.0297)Val+(0.0608)Orn+(-0.0209)Lys+(0.0404)Leu;0.703,0.751,0.780,0.808,0.770,0.820,0.696,0.774,(5.8133)+(-0.0906)Asn+(0.0192)Thr+(-0.0060)Ala+(-0.0703)Cit+(-0.0009)Arg+(-0.0267)Tyr;0.703,0.747,0.726,0.751,0.692,0.724,0.733,0.725,(2.4670)+(-0.0834)Asn+(0.0018)Gly+(-0.0604)Tyr+(-0.0133)Lys+(0.0331)Ile+(0.0565)Phe;0.703,0.750,0.807,0.826,0.770,0.827,0.818,0.810,(3.7930)+(-0.1479)Asn+(0.0078)Gln+(-0.0560)Cit+(-0.0027)Arg+(-0.0351)Val+(0.0491)Leu;0.703,0.749,0.726,0.729,0.701,0.816,0.706,0.738,(0.8543)+(0.0340)Ser+(-0.0088)Gly+(-0.0313)Arg+(-0.0349)Val+(0.0268)Orn+(0.0354)Leu;0.703,0.744,0.735,0.750,0.748,0.768,0.647,0.728,(3.4713)+(-0.0523)Asn+(0.0163)Thr+(0.0056)Pro+(-0.2238)Met+(0.0174)Orn+(-0.0064)Lys;0.703,0.748,0.634,0.657,0.617,0.728,0.543,0.636,(-0.9491)+(0.0291)Ser+(-0.0309)Arg+(0.0015)Pro+(-0.0645)Tyr+(0.0069)Orn+(0.0375)Ile;0.703,0.751,0.729,0.763,0.734,0.755,0.607,0.715,(4.9434)+(-0.1053)Asn+(0.0021)Gly+(0.0145)Thr+(-0.0718)Cit+(0.0062)Pro+(-0.0455)Tyr;0.703,0.751,0.785,0.811,0.782,0.792,0.715,0.775,(2.1405)+(-0.0797)Asn+(-0.0010)Gly+(0.0056)Gln+(0.0186)Thr+(-0.2319)Met+(-0.0000)Leu;0.703,0.749,0.799,0.845,0.764,0.810,0.744,0.791,(4.1922)+(-0.1369)Asn+(-0.0024)Gly+(0.0057)Gln+(0.0151)Thr+(-0.0332)Tyr+(-0.0120)Val;0.703,0.755,0.740,0.749,0.781,0.778,0.608,0.729,(4.0373)+(0.0264)Thr+(-0.0732)Cit+(-0.0020)Arg+(-0.2600)Met+(-0.0074)Lys+(0.0106)Leu;0.703,0.750,0.749,0.761,0.686,0.813,0.805,0.766,(2.9300)+(0.0004)Gly+(-0.0092)Ala+(-0.0091)Arg+(-0.0331)Tyr+(-0.0132)Lys+(0.0602)Ile;0.703,0.745,0.813,0.833,0.779,0.825,0.

823,0.815,(1.4290)+(-0.1080)Asn+(0.0056)Gln+(-0.0077)Ala+(-0.0119)Arg+(-0.0075)Lys+(0.0546)Phe;0.703,0.745,0.783,0.807,0.772,0.780,0.744,0.776,(2.0898)+(-0.0612)Asn+(0.0001)Gly+(0.0060)Gln+(0.0067)Pro+(-0.2034)Met+(-0.0036)Lys;0.703,0.746,0.725,0.765,0.706,0.702,0.673,0.711,(2.6670)+(-0.0941)Asn+(-0.0149)Arg+(0.0036)Pro+(-0.0682)Tyr+(0.0226)Orn+(0.0605)Phe;0.702,0.753,0.625,0.648,0.565,0.678,0.652,0.636,(-3.0353)+(0.0335)Ser+(-0.0174)Thr+(0.0013)Pro+(-0.0759)Tyr+(0.0306)Ile+(0.0406)Phe;0.702,0.749,0.771,0.799,0.770,0.756,0.712,0.759,(3.6337)+(-0.1470)Asn+(0.0201)Thr+(-0.0167)Arg+(-0.0216)Val+(-0.0011)Lys+(0.0823)Phe;0.702,0.755,0.705,0.679,0.732,0.785,0.662,0.714,(-0.6108)+(0.0382)Ser+(-0.0048)Gly+(-0.0198)Thr+(-0.0922)Cit+(-0.0146)Arg+(0.0374)Orn;0.702,0.749,0.680,0.704,0.687,0.758,0.548,0.674,(0.9420)+(0.0302)Ser+(-0.0060)Thr+(-0.0670)Cit+(-0.0131)Arg+(0.0077)Pro+(-0.0496)Tyr;0.702,0.748,0.803,0.829,0.773,0.796,0.802,0.800,(3.4433)+(-0.1083)Asn+(-0.0050)Ala+(-0.0090)Arg+(-0.0161)Val+(0.0024)Lys+(0.0817)Phe;0.702,0.755,0.722,0.747,0.645,0.815,0.749,0.739,(1.1123)+(0.0347)Ser+(-0.0093)Gly+(-0.0093)Ala+(0.0134)Pro+(-0.0495)Tyr+(-0.0035)Leu;0.702,0.748,0.776,0.801,0.748,0.813,0.744,0.777,(4.5599)+(-0.0065)Ala+(-0.0068)Arg+(0.0156)Pro+(-0.0066)Tyr+(-0.0073)Val+(-0.1569)Met;0.702,0.742,0.692,0.720,0.682,0.772,0.583,0.689,(1.4447)+(0.0274)Ser+(-0.0080)Thr+(-0.0701)Cit+(0.0094)Pro+(-0.0438)Tyr+(-0.0077)Val;0.702,0.751,0.803,0.818,0.767,0.825,0.822,0.808,(1.6301)+(-0.1278)Asn+(0.0045)Gln+(0.0112)Thr+(-0.0084)Ala+(-0.0121)Lys+(0.0552)Phe;0.702,0.751,0.765,0.775,0.739,0.798,0.764,0.769,(0.8337)+(0.0463)Ser+(-0.1595)Asn+(-0.0067)Gly+(0.0033)Gln+(-0.0042)Thr+(-0.0073)Leu;0.702,0.749,0.770,0.816,0.724,0.787,0.734,0.765,(1.0221)+(0.0034)Gln+(-0.0071)Ala+(-0.0766)Cit+(-0.0533)Tyr+(-0.0081)Val+(0.0858)Phe;0.702,0.749,0.771,0.790,0.764,0.781,0.726,0.765,(1.8100)+(-0.0661)Asn+(-0.0000)Gly+(0.0051)Gln+(0.0056)Pro+(-0

.2170)Met+(0.0151)Orn;0.702,0.754,0.722,0.708,0.739,0.788,0.680,0.729,(3.3330)+(-0.0816)Asn+(0.0058)Gly+(-0.0836)Cit+(-0.0019)Pro+(-0.0150)Lys+(0.0482)Ile;0.702,0.747,0.826,0.855,0.797,0.851,0.794,0.824,(3.6968)+(-0.1082)Asn+(0.0077)Gln+(-0.0050)Ala+(-0.0723)Cit+(-0.0014)Arg+(-0.0058)Val;0.702,0.746,0.775,0.805,0.776,0.809,0.670,0.765,(4.3675)+(-0.0508)Asn+(0.0001)Gly+(0.0240)Thr+(-0.0040)Ala+(-0.0117)Arg+(-0.1829)Met;0.702,0.757,0.727,0.767,0.696,0.830,0.609,0.726,(1.1212)+(0.0254)Ser+(-0.0008)Gln+(-0.0068)Ala+(-0.0248)Arg+(-0.0349)Tyr+(0.0249)Orn;0.702,0.748,0.769,0.818,0.733,0.785,0.703,0.760,(4.1732)+(-0.1392)Asn+(0.0049)Gln+(0.0124)Thr+(0.0088)Pro+(-0.0374)Tyr+(-0.0145)Val;0.702,0.756,0.768,0.767,0.791,0.804,0.695,0.764,(2.3518)+(-0.1404)Asn+(0.0058)Gln+(0.0036)Thr+(-0.1028)Cit+(-0.0082)Arg+(0.0384)Orn;0.702,0.751,0.781,0.818,0.775,0.801,0.678,0.768,(3.5304)+(-0.1288)Asn+(0.0072)Gln+(0.0153)Thr+(-0.0727)Cit+(-0.0085)Arg+(-0.0419)Tyr;0.702,0.752,0.776,0.802,0.775,0.792,0.695,0.766,(2.0801)+(-0.0818)Asn+(0.0049)Gln+(0.0153)Thr+(-0.2224)Met+(0.0128)Orn+(-0.0022)Leu;0.702,0.752,0.779,0.801,0.778,0.803,0.706,0.772,(2.6674)+(0.0057)Gln+(-0.0671)Cit+(0.0103)Pro+(-0.0077)Val+(-0.2257)Met+(0.0000)Lys;0.702,0.750,0.786,0.797,0.741,0.807,0.834,0.795,(1.4151)+(-0.1354)Asn+(0.0035)Gln+(0.0056)Thr+(-0.0110)Ala+(0.0076)Pro+(0.0442)Phe;0.702,0.747,0.756,0.771,0.731,0.800,0.736,0.759,(5.4647)+(-0.1512)Asn+(0.0010)Gly+(0.0212)Thr+(-0.0118)Arg+(-0.0449)Val+(0.0621)Leu;0.702,0.746,0.692,0.724,0.691,0.780,0.547,0.686,(1.8449)+(0.0266)Ser+(-0.0578)Cit+(-0.0162)Arg+(0.0096)Pro+(-0.0443)Tyr+(-0.0086)Val;0.702,0.742,0.672,0.656,0.674,0.775,0.634,0.685,(-0.7533)+(0.0342)Ser+(-0.0742)Cit+(-0.0233)Val+(-0.0249)Lys+(0.0312)Leu+(0.0596)Phe;0.702,0.756,0.779,0.791,0.756,0.815,0.767,0.782,(3.9426)+(0.0011)Gly+(-0.0035)Arg+(-0.0362)Val+(-0.2244)Met+(0.0013)Lys+(0.0622)Leu;0.702,0.760,0.731,0.768,0.705,0.835,0.613,0.730,(1.3666

)+(0.0265)Ser+(-0.0060)Ala+(-0.0200)Arg+(-0.0282)Tyr+(0.0289)Orn+(-0.0114)Lys;0.702,0.758,0.722,0.729,0.671,0.811,0.742,0.739,(-1.6244)+(0.0334)Ser+(-0.0112)Thr+(-0.0089)Ala+(0.0211)Orn+(-0.0203)Lys+(0.0512)Phe;0.702,0.754,0.738,0.775,0.731,0.786,0.622,0.728,(3.6699)+(0.0177)Thr+(0.0111)Pro+(-0.0132)Tyr+(-0.0107)Val+(-0.2473)Met+(0.0002)Lys;0.702,0.753,0.762,0.800,0.742,0.829,0.654,0.756,(3.3495)+(0.0138)Thr+(-0.0035)Ala+(-0.0072)Tyr+(-0.0085)Val+(-0.2016)Met+(0.0272)Orn;0.702,0.749,0.777,0.805,0.775,0.789,0.699,0.767,(2.1973)+(-0.0747)Asn+(0.0055)Gln+(0.0193)Thr+(-0.2255)Met+(-0.0058)Lys+(0.0032)Leu;0.702,0.749,0.700,0.750,0.648,0.719,0.664,0.695,(1.2721)+(-0.0015)Gln+(-0.0684)Tyr+(-0.0287)Val+(0.0288)Orn+(0.0222)Leu+(0.0687)Phe;0.702,0.748,0.775,0.809,0.786,0.812,0.636,0.761,(5.1902)+(-0.0638)Asn+(-0.0003)Gly+(0.0258)Thr+(-0.0118)Arg+(-0.0093)Val+(-0.1720)Met;0.702,0.752,0.777,0.803,0.773,0.804,0.698,0.769,(2.7970)+(0.0057)Gln+(-0.0667)Cit+(0.0107)Pro+(-0.0098)Tyr+(-0.0074)Val+(-0.2113)Met;0.702,0.749,0.682,0.670,0.633,0.739,0.772,0.704,(-0.1705)+(-0.0016)Gly+(-0.0014)Gln+(-0.0009)Orn+(0.1457)Ile+(-0.0960)Leu+(0.0309)Phe;0.702,0.748,0.640,0.612,0.640,0.753,0.636,0.660,(-2.4525)+(0.0415)Ser+(-0.0110)Thr+(-0.0199)Arg+(-0.0264)Lys+(0.0430)Ile+(0.0260)Phe;0.702,0.753,0.779,0.781,0.789,0.789,0.743,0.775,(1.5496)+(-0.1431)Asn+(0.0071)Gln+(0.0129)Thr+(-0.0894)Cit+(-0.0163)Lys+(0.0531)Phe;0.702,0.756,0.719,0.725,0.750,0.803,0.575,0.713,(4.0964)+(0.0067)Thr+(-0.1107)Cit+(-0.0009)Arg+(-0.0472)Tyr+(0.0582)Orn+(-0.0181)Lys;0.702,0.760,0.760,0.749,0.785,0.781,0.722,0.759,(1.2468)+(-0.1562)Asn+(0.0055)Gln+(0.0026)Thr+(-0.1076)Cit+(0.0340)Orn+(0.0292)Phe;0.702,0.748,0.682,0.712,0.691,0.767,0.522,0.673,(1.3563)+(0.0274)Ser+(-0.0651)Cit+(-0.0161)Arg+(0.0082)Pro+(-0.0504)Tyr+(-0.0053)Leu;0.702,0.747,0.773,0.787,0.782,0.793,0.705,0.767,(2.1769)+(0.0062)Gln+(-0.0747)Cit+(0.0076)Pro+(-0.2335)Met+(-0.0053)Lys+(0.0036)L

eu;0.702,0.743,0.713,0.740,0.622,0.762,0.797,0.730,(0.9516)+(-0.0014)Gly+(-0.0123)Ala+(0.0077)Pro+(-0.0619)Tyr+(0.0371)Ile+(0.0386)Phe;0.702,0.747,0.736,0.760,0.661,0.792,0.785,0.750,(1.7358)+(0.0020)Gln+(-0.0116)Ala+(-0.0205)Arg+(0.0082)Pro+(-0.0456)Tyr+(0.0457)Ile;0.702,0.746,0.785,0.797,0.778,0.824,0.739,0.785,(4.1349)+(-0.0421)Asn+(-0.0047)Ala+(-0.0087)Arg+(-0.1232)Met+(0.0324)Orn+(-0.0032)Lys;0.702,0.748,0.785,0.820,0.769,0.792,0.724,0.776,(3.3903)+(-0.1117)Asn+(0.0075)Gln+(-0.0747)Cit+(0.0067)Pro+(-0.0398)Tyr+(-0.0061)Leu;0.702,0.746,0.767,0.813,0.724,0.781,0.726,0.761,(0.8427)+(0.0036)Gln+(-0.0080)Ala+(-0.0830)Cit+(-0.0544)Tyr+(-0.0073)Leu+(0.0815)Phe;0.702,0.750,0.753,0.781,0.781,0.801,0.588,0.738,(4.6237)+(0.0248)Thr+(-0.0608)Cit+(-0.0069)Arg+(-0.0060)Tyr+(-0.0047)Val+(-0.2252)Met;0.702,0.756,0.748,0.779,0.724,0.858,0.639,0.750,(1.3567)+(0.0254)Ser+(-0.0061)Ala+(-0.0222)Arg+(-0.0082)Val+(0.0307)Orn+(-0.0103)Lys;0.702,0.754,0.768,0.765,0.789,0.804,0.710,0.767,(2.3582)+(-0.1441)Asn+(0.0055)Gln+(0.0025)Thr+(-0.1081)Cit+(-0.0012)Pro+(0.0395)Orn;0.702,0.750,0.746,0.774,0.722,0.838,0.653,0.747,(1.7207)+(0.0239)Ser+(0.0008)Gln+(-0.0069)Ala+(-0.0790)Cit+(-0.0250)Tyr+(-0.0014)Val;0.702,0.749,0.817,0.847,0.809,0.826,0.751,0.808,(3.2511)+(-0.0823)Asn+(0.0083)Gln+(-0.0671)Cit+(-0.0066)Val+(-0.1303)Met+(0.0018)Lys;0.702,0.745,0.790,0.807,0.784,0.808,0.746,0.786,(2.2114)+(-0.0653)Asn+(-0.0006)Gly+(0.0056)Gln+(-0.1769)Met+(0.0223)Orn+(-0.0064)Lys;0.702,0.752,0.706,0.711,0.705,0.795,0.630,0.710,(1.1978)+(0.0393)Ser+(-0.1437)Asn+(0.0039)Pro+(0.0201)Orn+(-0.0115)Lys+(-0.0052)Leu;0.702,0.752,0.753,0.772,0.771,0.771,0.652,0.741,(2.6268)+(-0.1082)Asn+(0.0057)Gly+(-0.0789)Cit+(-0.0070)Lys+(-0.0128)Leu+(0.0738)Phe;0.702,0.745,0.775,0.795,0.735,0.794,0.791,0.779,(2.4115)+(-0.1128)Asn+(0.0024)Gly+(-0.0098)Ala+(0.0104)Pro+(-0.0155)Leu+(0.0642)Phe;0.702,0.752,0.717,0.688,0.738,0.811,0.681,0.730,(2.1060)+(-0.1065)Cit+

(-0.0300)Val+(0.0610)Orn+(-0.0230)Lys+(0.0346)Leu+(0.0465)Phe;0.702,0.751,0.753,0.791,0.739,0.794,0.651,0.744,(2.3857)+(0.0033)Gln+(0.0152)Thr+(0.0101)Pro+(-0.0108)Val+(-0.2755)Met+(-0.0013)Lys;0.702,0.751,0.737,0.789,0.704,0.748,0.658,0.725,(2.0558)+(-0.0025)Gly+(-0.0232)Arg+(-0.0658)Tyr+(-0.0182)Val+(0.0364)Orn+(0.0804)Phe;0.702,0.747,0.726,0.754,0.726,0.747,0.637,0.716,(3.6306)+(-0.0622)Asn+(0.0168)Thr+(0.0068)Pro+(-0.0267)Tyr+(-0.1990)Met+(0.0167)Orn;0.702,0.746,0.806,0.834,0.796,0.832,0.735,0.799,(2.6390)+(0.0009)Gly+(0.0060)Gln+(-0.0044)Ala+(-0.0748)Cit+(-0.0014)Val+(-0.1661)Met;0.702,0.745,0.745,0.754,0.751,0.774,0.687,0.742,(3.4102)+(-0.0438)Asn+(0.0008)Gly+(0.0062)Pro+(-0.1899)Met+(0.0237)Orn+(-0.0055
)Lys;0.702,0.745,0.761,0.792,0.745,0.750,0.722,0.752,(3.1411)+(-0.1289)Asn+(0.0032)Gly+(-0.0109)Arg+(0.0067)Pro+(-0.0209)Val+(0.0756)Phe;0.702,0.756,0.735,0.748,0.773,0.776,0.594,0.723,(4.1791)+(0.0269)Thr+(-0.0739)Cit+(-0.0117)Tyr+(-0.2447)Met+(-0.0078)Lys+(0.0115)Leu;0.702,0.751,0.745,0.776,0.721,0.857,0.633,0.747,(1.3881)+(0.0241)Ser+(-0.0011)Gln+(-0.0067)Ala+(-0.0264)Arg+(-0.0108)Val+(0.0295)Orn;0.702,0.749,0.731,0.743,0.726,0.800,0.659,0.732,(2.2972)+(0.0384)Ser+(-0.0076)Gly+(0.0009)Thr+(-0.0641)Cit+(-0.0368)Tyr+(-0.0136)Lys;0.702,0.748,0.763,0.800,0.755,0.779,0.671,0.751,(2.4100)+(-0.0853)Asn+(0.0048)Gln+(0.0163)Thr+(-0.0210)Tyr+(-0.1919)Met+(0.0145)Orn;0.702,0.745,0.722,0.743,0.746,0.789,0.566,0.711,(3.5280)+(0.0016)Thr+(-0.0980)Cit+(-0.0111)Arg+(-0.0510)Tyr+(0.0525)Orn+(-0.0101)Leu;0.702,0.751,0.648,0.666,0.627,0.735,0.579,0.652,(-1.1922)+(0.0325)Ser+(-0.0088)Thr+(-0.0268)Arg+(-0.0582)Tyr+(0.0102)Orn+(0.0397)Ile;0.702,0.751,0.746,0.778,0.742,0.787,0.643,0.738,(3.6406)+(-0.0011)Gly+(0.0179)Thr+(0.0104)Pro+(-0.0113)Val+(-0.2631)Met+(0.0001)Lys;0.702,0.750,0.719,0.769,0.714,0.685,0.621,0.697,(2.7077)+(-0.1175)Asn+(0.0006)Gly+(0.0210)Thr+(-0.0198)Arg+

(-0.0734)Tyr+(0.0759)Phe;0.702,0.749,0.807,0.833,0.772,0.855,0.774,0.809,(3.6966)+(-0.1196)Asn+(0.0044)Gln+(-0.0044)Ala+(-0.0129)Val+(0.0338)Orn+(-0.0031)Lys;0.702,0.748,0.741,0.758,0.737,0.762,0.685,0.736,(3.9125)+(-0.0469)Asn+(0.0071)Pro+(-0.0238)Tyr+(-0.1502)Met+(0.0268)Orn+(-0.0052)Lys;0.702,0.747,0.779,0.803,0.751,0.814,0.747,0.779,(4.2836)+(-0.0065)Ala+(-0.0094)Arg+(0.0157)Pro+(-0.0090)Val+(-0.1787)Met+(0.0052)Lys;0.702,0.757,0.743,0.761,0.716,0.844,0.677,0.750,(0.5900)+(0.0299)Ser+(-0.0067)Thr+(-0.0071)Ala+(-0.0184)Arg+(0.0277)Orn+(-0.0130)Lys;0.702,0.753,0.688,0.667,0.601,0.802,0.845,0.729,(-2.2535)+(0.0320)Ser+(-0.0068)Gly+(-0.0155)Ala+(0.0052)Pro+(0.0395)Ile+(0.0067)Phe;0.702,0.751,0.774,0.810,0.767,0.784,0.683,0.761,(2.4006)+(-0.0841)Asn+(0.0054)Gln+(0.0193)Thr+(-0.0176)Tyr+(-0.2030)Met+(0.0012)Leu;0.702,0.750,0.745,0.792,0.717,0.718,0.696,0.731,(1.6894)+(-0.1356)Asn+(0.0049)Gln+(0.0186)Thr+(-0.0718)Tyr+(-0.0142)Lys+(0.0789)Phe;0.702,0.748,0.810,0.835,0.774,0.853,0.785,0.812,(3.7163)+(-0.1241)Asn+(-0.0008)Gly+(0.0044)Gln+(-0.0044)Ala+(-0.0138)Val+(0.0331)Orn;0.702,0.749,0.773,0.797,0.740,0.810,0.753,0.775,(4.1163)+(-0.0066)Ala+(0.0158)Pro+(-0.0071)Tyr+(-0.0083)Val+(-0.1769)Met+(0.0031)Lys;0.702,0.755,0.737,0.716,0.783,0.767,0.678,0.736,(2.7988)+(-0.1268)Asn+(0.0059)Thr+(-0.0994)Cit+(-0.0051)Arg+(0.0386)Orn+(0.0283)Phe;0.702,0.757,0.701,0.700,0.701,0.788,0.641,0.707,(0.7904)+(0.0421)Ser+(-0.1368)Asn+(-0.0056)Thr+(0.0037)Pro+(0.0209)Orn+(-0.0122)Lys;0.701,0.751,0.797,0.834,0.774,0.841,0.715,0.791,(2.4874)+(-0.0023)Gly+(0.0039)Gln+(0.0182)Thr+(-0.0032)Ala+(-0.0064)Val+(-0.2382)Met;0.701,0.745,0.731,0.767,0.708,0.702,0.703,0.720,(2.7199)+(-0.0928)Asn+(0.0014)Gly+(0.0050)Pro+(-0.0625)Tyr+(-0.0088)Lys+(0.0709)Phe;0.701,0.752,0.765,0.799,0.749,0.833,0.660,0.760,(3.4282)+(0.0143)Thr+(-0.0036)Ala+(-0.0080)Val+(-0.2015)Met+(0.0279)Orn+(-0.0037)Lys;0.701,0.746,0.734,0.754,0.753,0.766,0.617,0.723,(3.

5034)+(-0.0470)Asn+(0.0190)Thr+(-0.0157)Arg+(0.0058)Pro+(-0.2371)Met+(0.0164)Orn;0.701,0.753,0.764,0.799,0.760,0.843,0.621,0.756,(3.9159)+(0.0179)Thr+(-0.0034)Ala+(-0.0188)Arg+(-0.0093)Val+(-0.1968)Met+(0.0307)Orn;0.701,0.749,0.731,0.765,0.744,0.754,0.598,0.715,(4.2579)+(-0.0499)Asn+(0.0236)Thr+(-0.0144)Arg+(0.0080)Pro+(-0.0238)Tyr+(-0.2029)Met;0.701,0.748,0.810,0.837,0.761,0.833,0.823,0.813,(3.6784)+(-0.1465)Asn+(0.0005)Gly+(0.0067)Gln+(-0.0108)Arg+(-0.0396)Val+(0.0540)Leu;0.701,0.745,0.748,0.759,0.773,0.779,0.644,0.739,(4.2880)+(-0.0423)Asn+(0.0042)Gly+(-0.0691)Cit+(0.0085)Pro+(-0.1750)Met+(0.0008)Leu;0.701,0.746,0.771,0.811,0.728,0.791,0.738,0.767,(0.7835)+(0.0042)Gln+(-0.0086)Ala+(-0.0789)Cit+(-0.0084)Arg+(-0.0534)Tyr+(0.0752)Phe;0.701,0.753,0.717,0.736,0.670,0.816,0.696,0.729,(-0.6657)+(0.0323)Ser+(-0.0022)Gln+(-0.0074)Ala+(-0.0096)Val+(-0.0163)Lys+(0.0698)Phe;0.701,0.747,0.714,0.759,0.709,0.693,0.620,0.695,(2.6933)+(-0.1153)Asn+(0.0182)Thr+(-0.0213)Arg+(-0.0751)Tyr+(0.0180)Orn+(0.0695)Phe;0.701,0.747,0.790,0.813,0.794,0.821,0.701,0.782,(5.0310)+(-0.0464)Asn+(0.0036)Gly+(-0.0045)Ala+(-0.0681)Cit+(-0.0972)Met+(0.0020)Lys;0.701,0.750,0.733,0.772,0.685,0.769,0.701,0.732,(1.5172)+(0.0076)Thr+(-0.0076)Ala+(-0.0591)Tyr+(0.0243)Orn+(-0.0181)Lys+(0.0699)Phe;0.701,0.747,0.780,0.814,0.765,0.762,0.734,0.769,(3.0107)+(-0.1280)Asn+(0.0032)Gly+(-0.0114)Arg+(-0.0197)Val+(0.0027)Lys+(0.0804)Phe;0.701,0.750,0.772,0.789,0.744,0.803,0.760,0.774,(3.9170)+(-0.0077)Ala+(-0.0071)Arg+(0.0142)Pro+(-0.0103)Tyr+(-0.1707)Met+(0.0028)Leu;0.701,0.758,0.759,0.765,0.718,0.835,0.777,0.774,(0.1697)+(0.0382)Ser+(-0.0068)Gly+(-0.0109)Thr+(-0.0083)Ala+(-0.0230)Arg+(0.0229)Orn;0.701,0.748,0.830,0.866,0.797,0.846,0.789,0.824,(3.0358)+(-0.0816)Asn+(0.0065)Gln+(-0.0023)Ala+(-0.0081)Val+(-0.1273)Met+(0.0026)Lys;0.701,0.754,0.734,0.735,0.675,0.823,0.791,0.756,(0.5805)+(0.0422)Ser+(-0.0074)Gly+(-0.0093)Thr+(-0.0099)Ala+(0.0122)Pro+(-0.01

49)Lys;0.701,0.748,0.750,0.773,0.768,0.757,0.644,0.736,(2.4215)+(-0.1196)Asn+(0.0056)Gly+(-0.0774)Cit+(-0.0015)Arg+(-0.0167)Leu+(0.0726)Phe;0.701,0.759,0.707,0.748,0.627,0.779,0.715,0.717,(-1.8869)+(0.0286)Ser+(-0.0118)Thr+(-0.0083)Ala+(-0.0560)Tyr+(0.0150)Orn+(0.0642)Phe;0.701,0.751,0.707,0.734,0.682,0.713,0.687,0.704,(2.7730)+(-0.1036)Asn+(0.0192)Thr+(-0.0735)Tyr+(-0.0173)Lys+(0.0303)Ile+(0.0644)Phe;0.701,0.751,0.743,0.730,0.781,0.785,0.669,0.741,(3.8209)+(-0.1160)Asn+(0.0055)Thr+(-0.1008)Cit+(-0.0045)Arg+(-0.0007)Pro+(0.0436)Orn;0.701,0.747,0.757,0.797,0.722,0.780,0.709,0.752,(1.9239)+(0.0017)Gly+(-0.0069)Ala+(-0.0723)Cit+(-0.0478)Tyr+(-0.0082)Val+(0.0885)Phe;0.701,0.747,0.796,0.817,0.753,0.803,0.823,0.799,(1.6496)+(-0.1267)Asn+(0.0039)Gln+(-0.0096)Ala+(0.0093)Pro+(-0.0160)Leu+(0.0599)Phe;0.701,0.746,0.700,0.691,0.715,0.805,0.617,0.707,(0.2989)+(0.0266)Ser+(-0.0199)Thr+(-0.1000)Cit+(0.0041)Pro+(-0.0131)Val+(0.0471)Orn;0.701,0.746,0.683,0.708,0.682,0.755,0.569,0.679,(0.9473)+(0.0291)Ser+(-0.0096)Thr+(-0.0759)Cit+(0.0082)Pro+(-0.0484)Tyr+(-0.0044)Leu;0.701,0.747,0.739,0.760,0.759,0.745,0.641,0.726,(2.3417)+(-0.1240)Asn+(0.0058)Gly+(-0.0791)Cit+(0.0039)Pro+(-0.0189)Leu+(0.0705)Phe;0.701,0.746,0.770,0.805,0.761,0.823,0.659,0.762,(2.1032)+(0.0037)Gln+(0.0166)Thr+(-0.0047)Ala+(-0.0207)Arg+(-0.2336)Met+(0.0190)Orn;0.701,0.758,0.654,0.684,0.628,0.727,0.575,0.654,(-1.0307)+(0.0349)Ser+(-0.0020)Gln+(-0.0013)Thr+(-0.0648)Tyr+(-0.0202)Lys+(0.0779)Phe;0.701,0.752,0.729,0.748,0.688,0.827,0.692,0.739,(1.6849)+(0.0251)Ser+(-0.0073)Ala+(-0.0712)Cit+(-0.0250)Tyr+(-0.0199)Val+(0.0362)Leu;0.701,0.755,0.742,0.771,0.750,0.767,0.633,0.730,(5.5484)+(-0.0925)Asn+(0.0181)Thr+(-0.0683)Cit+(0.0062)Pro+(-0.0444)Tyr+(-0.0070)Lys;0.701,0.749,0.644,0.664,0.619,0.729,0.582,0.649,(-1.1520)+(0.0332)Ser+(-0.0076)Thr+(-0.0263)Arg+(0.0021)Pro+(-0.0588)Tyr+(0.0402)Ile;0.701,0.748,0.741,0.738,0.686,0.801,0.818,0.761,(0.5469)+(0.0012)Gl

y+(-0.0141)Ala+(-0.0237)Arg+(0.0062)Pro+(0.0390)Ile+(0.0174)Phe;0.701,0.747,0.807,0.830,0.807,0.816,0.739,0.798,(2.7698)+(-0.0709)Asn+(0.0083)Gln+(-0.0740)Cit+(0.0005)Arg+(-0.1500)Met+(-0.0022)Lys;0.701,0.748,0.692,0.715,0.686,0.771,0.585,0.689,(-0.8388)+(0.0350)Ser+(-0.0016)Gln+(-0.0245)Arg+(-0.0143)Val+(-0.0143)Lys+(0.0675)Phe;0.701,0.740,0.689,0.692,0.699,0.769,0.601,0.690,(-0.8310)+(0.0344)Ser+(-0.0696)Cit+(-0.0120)Arg+(-0.0099)Val+(-0.0192)Lys+(0.0705)Phe;0.701,0.752,0.739,0.748,0.680,0.834,0.770,0.758,(1.2915)+(0.0376)Ser+(-0.0081)Gly+(-0.0092)Ala+(0.0126)Pro+(-0.0073)Val+(-0.0144)Lys;0.701,0.743,0.776,0.796,0.759,0.811,0.736,0.775,(4.2481)+(-0.0509)Asn+(-0.0045)Ala+(-0.0144)Tyr+(-0.1024)Met+(0.0324)Orn+(-0.0042)Lys;0.701,0.749,0.773,0.793,0.769,0.805,0.705,0.768,(3.9597)+(-0.0507)Asn+(0.0226)Thr+(-0.0046)Ala+(-0.1941)Met+(-0.0046)Lys+(0.0079)Leu;0.701,0.747,0.644,0.613,0.651,0.761,0.631,0.664,(-1.6687)+(0.0392)Ser+(-0.0124)Thr+(-0.0190)Arg+(0.0136)Orn+(-0.0254)Lys+(0.0451)Ile;0.701,0.747,0.702,0.654,0.746,0.801,0.668,0.717,(1.6775)+(0.0023)Gln+(-0.0022)Thr+(-0.1170)Cit+(0.0451)Orn+(-0.0301)Lys+(0.0375)Ile;0.701,0.746,0.752,0.760,0.760,0.780,0.689,0.747,(3.6661)+(-0.0368)Asn+(-0.0092)Arg+(0.0062)Pro+(-0.1855)Met+(0.0259)Orn+(-0.0044)Lys;0.701,0.754,0.780,0.778,0.777,0.805,0.772,0.783,(4.5839)+(-0.0463)Cit+(0.0102)Tyr+(-0.0335)Val+(-0.2241)Met+(0.0007)Lys+(0.0588)Leu;0.701,0.754,0.726,0.725,0.668,0.821,0.779,0.748,(0.6351)+(0.0393)Ser+(-0.0078)Gly+(-0.0103)Ala+(0.0109)Pro+(-0.0187)Lys+(0.0025)Leu;0.701,0.753,0.710,0.759,0.677,0.738,0.629,0.701,(1.2967)+(0.0070)Thr+(-0.0690)Tyr+(-0.0152)Val+(0.0298)Orn+(-0.0153)Lys+(0.0832)Phe;0.701,0.746,0.755,0.777,0.714,0.804,0.749,0.761,(4.5657)+(-0.0756)Asn+(-0.0082)Ala+(0.0110)Pro+(-0.0354)Tyr+(0.0291)Orn+(-0.0066)Lys;0.701,0.744,0.765,0.799,0.710,0.806,0.762,0.769,(3.2200)+(-0.1035)Asn+(0.0038)Gln+(-0.0085)Ala+(0.0104)Pro+(-0.0399)Tyr+(0.0217)Orn;0.701,0.

750,0.783,0.793,0.765,0.812,0.777,0.787,(2.5179)+(-0.1086)Asn+(0.0098)Thr+(-0.0092)Ala+(-0.0173)Arg+(0.0182)Orn+(0.0478)Phe;0.701,0.751,0.769,0.784,0.741,0.802,0.769,0.774,(3.7350)+(-0.0078)Ala+(0.0141)Pro+(-0.0099)Tyr+(-0.1775)Met+(-0.0021)Lys+(0.0040)Leu;0.701,0.750,0.700,0.719,0.686,0.756,0.641,0.700,(1.5294)+(0.0351)Ser+(-0.0081)Gly+(-0.0681)Cit+(0.0078)Pro+(-0.0602)Tyr+(-0.0056)Leu;0.701,0.746,0.684,0.637,0.734,0.799,0.619,0.697,(1.5257)+(0.0024)Gly+(0.0016)Gln+(-0.1208)Cit+(0.0442)Orn+(-0.0307)Lys+(0.0394)Ile;0.701,0.745,0.775,0.807,0.756,0.769,0.735,0.767,(2.3159)+(-0.0663)Asn+(-0.0003)Gly+(0.0059)Gln+(0.0075)Pro+(-0.0196)Tyr+(-0.1799)Met;0.701,0.748,0.749,0.766,0.769,0.774,0.644,0.738,(4.5828)+(-0.0437)Asn+(0.0039)Gly+(-0.0671)Cit+(0.0091)Pro+(-0.0120)Tyr+(-0.1524)Met;0.701,0.752,0.758,0.800,0.745,0.822,0.630,0.749,(2.3578)+(0.0025)Gln+(0.0128)Thr+(-0.0091)Tyr+(-0.0098)Val+(-0.2351)Met+(0.0230)Orn;0.701,0.750,0.771,0.809,0.779,0.811,0.623,0.756,(5.3060)+(-0.0654)Asn+(0.0261)Thr+(-0.0120)Arg+(-0.0094)Tyr+(-0.0088)Val+(-0.1570)Met;0.701,0.749,0.739,0.749,0.674,0.812,0.798,0.758,(2.9220)+(-0.0012)Gly+(0.0086)Thr+(-0.0095)Ala+(-0.0410)Tyr+(-0.0179)Lys+(0.0600)Ile;0.701,0.746,0.760,0.770,0.736,0.806,0.748,0.765,(5.6397)+(-0.1459)Asn+(0.0224)Thr+(-0.0103)Arg+(-0.0444)Val+(-0.0032)Lys+(0.0624)Leu;0.701,0.744,0.748,0.7

60,0.773,0.778,0.644,0.739,(4.3318)+(-0.0425)Asn+(0.0042)Gly+(-0.0688)Cit+(0.0086)Pro+(-0.1728)Met+(-0.0000)Lys;0.701,0.753,0.735,0.749,0.683,0.861,0.717,0.753,(1.0886)+(0.0303)Ser+(-0.0063)Ala+(-0.0149)Arg+(-0.0278)Val+(-0.0128)Lys+(0.0474)Leu;0.701,0.749,0.748,0.753,0.715,0.832,0.743,0.761,(0.4802)+(0.0349)Ser+(-0.0068)Gly+(-0.0008)Gln+(-0.0089)Ala+(-0.0264)Arg+(0.0192)Orn;0.701,0.744,0.723,0.749,0.679,0.843,0.660,0.733,(1.3474)+(0.0281)Ser+(-0.0012)Gln+(-0.0094)Ala+(-0.0242)Arg+(0.0135)Pro+(-0.0101)Val;0.701,0.742,0.708,0.736,0.615,0.762,0.787

,0.725,(0.6927)+(-0.0001)Gln+(-0.0124)Ala+(0.0076)Pro+(-0.0611)Tyr+(0
.0376)Ile+(0.0386)Phe;0.701,0.753,0.711,0.700,0.737,0.745,0.662,0.711
,(1.6540)+(-0.1279)Asn+(0.0067)Gly+(-0.0890)Cit+(-0.0019)Pro+(0.0284)
Ile+(0.0351)Phe;0.701,0.751,0.786,0.808,0.773,0.827,0.724,0.783,(5.01
82)+(-0.0701)Asn+(0.0035)Gly+(-0.0062)Ala+(-0.0727)Cit+(-0.0145)Tyr+(
0.0063)Leu;0.701,0.749,0.770,0.784,0.766,0.751,0.754,0.764,(3.8881)+(
-0.1199)Asn+(-0.0554)Cit+(0.0061)Pro+(-0.0185)Val+(-0.0008)Lys+(0.075
9)Phe;0.701,0.749,0.740,0.760,0.741,0.761,0.671,0.733,(3.9205)+(-0.04
39)Asn+(-0.0107)Arg+(0.0072)Pro+(-0.0250)Tyr+(-0.1532)Met+(0.0265)Orn
;0.701,0.746,0.722,0.771,0.664,0.719,0.713,0.717,(1.4825)+(-0.0039)Gl
y+(-0.0717)Tyr+(-0.0283)Val+(0.0299)Orn+(0.0211)Leu+(0.0671)Phe;0.701
,0.746,0.783,0.793,0.768,0.824,0.755,0.785,(3.9398)+(-0.0451)Asn+(-0.
0049)Ala+(-0.1307)Met+(0.0302)Orn+(-0.0050)Lys+(0.0022)Leu;0.701,0.74
8,0.808,0.824,0.773,0.824,0.828,0.812,(1.3809)+(-0.1157)Asn+(0.0010)G
ly+(0.0048)Gln+(-0.0079)Ala+(-0.0097)Lys+(0.0554)Phe;0.701,0.747,0.80
6,0.834,0.802,0.813,0.738,0.797,(2.9325)+(-0.0730)Asn+(0.0084)Gln+(-0
.0729)Cit+(-0.0098)Tyr+(-0.1318)Met+(-0.0018)Lys;0.701,0.746,0.811,0.
849,0.790,0.829,0.742,0.802,(3.7416)+(-0.1162)Asn+(0.0009)Gly+(0.0078
)Gln+(-0.0686)Cit+(-0.0232)Tyr+(-0.0077)Val;0.701,0.756,0.699,0.704,0
.646,0.795,0.725,0.718,(-1.4090)+(0.0305)Ser+(-0.0116)Ala+(0.0088)Pro
+(0.0128)Orn+(-0.0240)Lys+(0.0462)Phe;0.701,0.747,0.793,0.818,0.744,0
.813,0.811,0.797,(3.8375)+(-0.1484)Asn+(0.0063)Gln+(-0.0111)Arg+(0.00
63)Pro+(-0.0407)Val+(0.0511)Leu;0.701,0.746,0.789,0.792,0.754,0.830,0
.827,0.801,(5.8502)+(-0.0986)Asn+(-0.0052)Ala+(-0.0548)Cit+(0.0070)Ar
g+(-0.0312)Val+(0.0521)Leu;0.700,0.752,0.687,0.687,0.690,0.769,0.625,
0.693,(3.2127)+(0.0015)Gly+(0.0120)Thr+(-0.0833)Cit+(-0.0531)Tyr+(-0.
0213)Lys+(0.0539)Ile;0.700,0.745,0.734,0.765,0.737,0.746,0.639,0.722,
(3.9415)+(-0.0590)Asn+(0.0201)Thr+(0.0078)Pro+(-0.0231)Tyr+(-0.2052)M

et+(-0.0010)Leu;0.700,0.745,0.764,0.783,0.776,0.788,0.671,0.755,(1.99
29)+(0.0015)Gly+(0.0057)Gln+(-0.0741)Cit+(-0.0038)Arg+(0.0082)Pro+(-0
.2424)Met;0.700,0.743,0.678,0.710,0.671,0.765,0.546,0.673,(1.7131)+(0
.0244)Ser+(-0.0006)Gln+(-0.0718)Cit+(0.0089)Pro+(-0.0484)Tyr+(-0.0083
)Val;0.700,0.759,0.722,0.730,0.714,0.803,0.656,0.726,(0.5155)+(0.0398
)Ser+(-0.1444)Asn+(0.0020)Gln+(-0.0048)Thr+(0.0212)Orn+(-0.0117)Lys;0
.700,0.748,0.739,0.759,0.764,0.748,0.624,0.724,(2.4384)+(-0.1391)Asn+
(0.0051)Gly+(0.0096)Thr+(-0.0812)Cit+(-0.0178)Leu+(0.0715)Phe;0.700,0
.744,0.781,0.797,0.774,0.818,0.729,0.780,(3.9151)+(-0.0452)Asn+(0.000
8)Gly+(-0.0048)Ala+(-0.0099)Arg+(-0.1299)Met+(0.0305)Orn;0.700,0.753,
0.738,0.744,0.683,0.805,0.789,0.755,(-1.0736)+(0.0432)Ser+(-0.0072)Gl
y+(-0.0065)Thr+(-0.0083)Ala+(-0.0196)Lys+(0.0537)Phe;0.700,0.751,0.65
7,0.622,0.656,0.756,0.684,0.679,(-0.6932)+(0.0465)Ser+(-0.0071)Gly+(-
0.0010)Gln+(-0.0197)Arg+(-0.0270)Lys+(0.0443)Ile;0.700,0.745,0.741,0.
760,0.750,0.762,0.654,0.731,(3.3625)+(-0.0592)Asn+(0.0152)Thr+(0.0061
)Pro+(-0.2280)Met+(0.0159)Orn+(-0.0046)Leu;0.700,0.745,0.730,0.773,0.
712,0.711,0.667,0.716,(2.5141)+(-0.0965)Asn+(0.0012)Gly+(-0.0150)Arg+
(-0.0640)Tyr+(0.0239)Orn+(0.0635)Phe;0.700,0.750,0.691,0.671,0.603,0.
805,0.847,0.732,(-1.9562)+(0.0327)Ser+(-0.0068)Gly+(-0.0153)Ala+(0.00
57)Pro+(-0.0063)Orn+(0.0434)Ile;0.700,0.752,0.746,0.780,0.752,0.799,0
.606,0.734,(4.2344)+(-0.0009)Gly+(0.0226)Thr+(-0.0168)Arg+(0.0107)Pro
+(-0.0113)Val+(-0.2510)Met;0.700,0.751,0.720,0.726,0.719,0.789,0.658,
0.723,(1.9875)+(0.0398)Ser+(-0.0073)Gly+(-0.0661)Cit+(-0.0387)Tyr+(-0
.0158)Lys+(0.0070)Leu;0.700,0.752,0.730,0.732,0.682,0.804,0.773,0.748
,(-0.6768)+(0.0423)Ser+(-0.0072)Gly+(-0.0012)Gln+(-0.0086)Ala+(-0.021
1)Lys+(0.0542)Phe;0.700,0.752,0.710,0.757,0.705,0.819,0.515,0.699,(1.
7536)+(0.0230)Ser+(-0.0009)Gln+(-0.0274)Arg+(-0.0381)Tyr+(-0.0117)Val
+(0.0310)Orn;0.700,0.745,0.688,0.689,0.712,0.781,0.570,0.688,(-0.9838

)+(0.0236)Ser+(-0.0826)Cit+(-0.0247)Arg+(-0.0188)Val+(0.0395)Orn+(0.0534)Phe;0.700,0.749,0.772,0.792,0.744,0.803,0.754,0.773,(3.9954)+(-0.0076)Ala+(-0.0076)Arg+(0.0145)Pro+(-0.0104)Tyr+(-0.1672)Met+(0.0006)Lys;0.700,0.752,0.742,0.752,0.731,0.821,0.684,0.747,(1.5379)+(0.0380)Ser+(-0.0092)Gly+(-0.0242)Arg+(-0.0121)Val+(0.0301)Orn+(-0.0139)Lys;0.700,0.751,0.748,0.725,0.760,0.773,0.767,0.756,(3.1308)+(-0.0775)Asn+(-0.0756)Cit+(-0.0026)Pro+(-0.0170)Lys+(0.0376)Ile+(0.0355)Phe;0.700,0.750,0.769,0.809,0.733,0.779,0.727,0.762,(2.3826)+(-0.0064)Ala+(-0.0638)Cit+(-0.0051)Arg+(-0.0480)Tyr+(-0.0086)Val+(0.0893)Phe;0.700,0.748,0.769,0.784,0.765,0.750,0.753,0.763,(3.8832)+(-0.1209)Asn+(-0.0546)Cit+(-0.0008)Arg+(0.0061)Pro+(-0.0188)Val+(0.0758)Phe;0.700,0.747,0.736,0.762,0.686,0.843,0.697,0.747,(0.8957)+(0.0301)Ser+(-0.0079)Thr+(-0.0093)Ala+(-0.0217)Arg+(0.0139)Pro+(-0.0094)Val;0.700,0.752,0.722,0.698,0.740,0.828,0.669,0.734,(3.3471)+(0.0034)Thr+(-0.1045)Cit+(-0.0306)Val+(0.0610)Orn+(-0.0214)Lys+(0.0420)Leu;0.700,0.749,0.771,0.797,0.773,0.801,0.674,0.761,(4.0832)+(-0.0475)Asn+(0.0243)Thr+(-0.0044)Ala+(-0.0118)Arg+(-0.1972)Met+(0.0057)Leu;0.700,0.745,0.738,0.760,0.757,0.763,0.621,0.725,(3.8939)+(-0.0445)Asn+(0.0224)Thr+(-0.0132)Arg+(0.0068)Pro+(-0.2346)Met+(-0.0022)Lys;0.700,0.741,0.769,0.786,0.779,0.784,0.695,0.761,(2.0401)+(0.0060)Gln+(-0.0720)Cit+(-0.0041)Arg+(0.0079)Pro+(-0.2426)Met+(0.0008)Leu;0.700,0.739,0.724,0.744,0.698,0.761,0.700,0.726,(-0.9378)+(0.0405)Ser+(-0.0072)Gly+(-0.0078)Thr+(-0.0289)Arg+(-0.0172)Val+(0.0555)Phe;0.700,0.746,0.724,0.722,0.690,0.810,0.736,0.739,(1.2818)+(0.0424)Ser+(-0.0087)Gly+(-0.0172)Arg+(-0.0304)Val+(-0.0163)Lys+(0.0438)Leu;0.700,0.747,0.790,0.810,0.788,0.769,0.756,0.781,(1.2524)+(-0.1447)Asn+(0.0070)Gln+(-0.0820)Cit+(0.0024)Pro+(-0.0192)Leu+(0.0618)Phe;0.700,0.752,0.705,0.709,0.701,0.792,0.638,0.710,(0.5577)+(0.0392)Ser+(-0.1500)Asn+(0.0017)Gln+(0.0030)Pro+(0.0179)Orn+(-0.0134)

Lys;0.700,0.752,0.791,0.822,0.761,0.763,0.795,0.785,(2.0620)+(-0.1552)Asn+(0.0049)Gln+(0.0055)Pro+(-0.0210)Val+(-0.0017)Lys+(0.0687)Phe;0.700,0.744,0.777,0.800,0.746,0.829,0.741,0.779,(3.3435)+(0.0042)Gln+(-0.0102)Ala+(-0.0824)Cit+(0.0136)Pro+(-0.0312)Tyr+(-0.0080)Lys;0.700,0.749,0.819,0.848,0.811,0.831,0.752,0.810,(3.2828)+(-0.0801)Asn+(0.0084)Gln+(-0.0669)Cit+(-0.0008)Arg+(-0.0061)Val+(-0.1261)Met;0.700,0.748,0.807,0.832,0.800,0.834,0.737,0.801,(2.6574)+(0.0009)Gly+(0.0062)Gln+(-0.0046)Ala+(-0.0763)Cit+(-0.1607)Met+(-0.0024)Lys;0.700,0.746,0.804,0.831,0.798,0.826,0.731,0.797,(2.5544)+(0.0010)Gly+(0.0061)Gln+(-0.0047)Ala+(-0.0755)Cit+(-0.0017)Arg+(-0.1672)Met;0.700,0.741,0.751,0.777,0.703,0.795,0.749,0.756,(4.2527)+(-0.0851)Asn+(0.0000)Gly+(-0.0086)Ala+(0.0111)Pro+(-0.0385)Tyr+(0.0254)Orn;0.700,0.751,0.769,0.772,0.731,0.804,0.813,0.780,(2.2993)+(-0.1186)Asn+(0.0049)Thr+(-0.0113)Ala+(0.0079)Pro+(0.0124)Orn+(0.0417)Phe;0.700,0.745,0.747,0.758,0.772,0.775,0.646,0.738,(4.2486)+(-0.0456)Asn+(0.0042)Gly+(-0.0727)Cit+(0.0048)Arg+(0.0085)Pro+(-0.1767)Met;0.700,0.747,0.789,0.810,0.786,0.811,0.719,0.782,(2.2300)+(-0.0610)Asn+(0.0060)Gln+(-0.0132)Arg+(-0.1714)Met+(0.0239)Orn+(-0.0046)Lys;0.700,0.747,0.675,0.625,0.729,0.795,0.608,0.689,(1.9530)+(0.0030)Gly+(-0.1214)Cit+(0.0017)Arg+(0.0458)Orn+(-0.0301)Lys+(0.0397)Ile;0.700,0.745,0.755,0.783,0.712,0.801,0.737,0.758,(4.5590)+(-0.0849)Asn+(-0.0080)Ala+(0.0117)Pro+(-0.0369)Tyr+(0.0284)Orn+(-0.0076)Leu;0.700,0.743,0.756,0.764,0.738,0.828,0.723,0.763,(1.2227)+(0.0318)Ser+(-0.0050)Gly+(0.0011)Gln+(-0.0085)Ala+(-0.0701)Cit+(-0.0127)Arg;0.700,0.742,0.667,0.652,0.695,0.763,0.581,0.673,(-1.1759)+(0.0364)Ser+(-0.0835)Cit+(-0.0087)Arg+(0.0020)Pro+(-0.0257)Lys+(0.0559)Phe;0.700,0.749,0.797,0.821,0.800,0.832,0.705,0.789,(5.3938)+(-0.0481)Asn+(0.0033)Gly+(-0.0038)Ala+(-0.0641)Cit+(-0.0026)Val+(-0.0830)Met;0.700,0.747,0.776,0.805,0.777,0.811,0.670,0.766,(4.4036)+(-0.0504)Asn+(

0.0241)Thr+(-0.0039)Ala+(-0.0115)Arg+(-0.1817)Met+(-0.0005)Lys;0.700,0.752,0.774,0.805,0.769,0.805,0.683,0.765,(4.4391)+(-0.0597)Asn+(0.0225)Thr+(-0.0038)Ala+(-0.0113)Tyr+(-0.1626)Met+(-0.0019)Lys;0.700,0.744,0.785,0.805,0.732,0.833,0.811,0.795,(5.3601)+(-0.1056)Asn+(0.0017)Gly+(-0.0040)Ala+(-0.0100)Tyr+(-0.0359)Val+(0.0573)Leu;0.700,0.744,0.782,0.808,0.771,0.776,0.740,0.774,(2.0663)+(-0.0655)Asn+(0.0001)Gly+(0.0058)Gln+(0.0070)Pro+(-0.2049)Met+(-0.0035)Leu;0.700,0.753,0.701,0.688,0.736,0.732,0.642,0.700,(1.6468)+(-0.1407)Asn+(0.0064)Gly+(0.0060)Thr+(-0.0909)Cit+(0.0247)Ile+(0.0342)Phe;0.700,0.745,0.689,0.681,0.694,0.769,0.639,0.696,(-1.4887)+(0.0289)Ser+(-0.0207)Thr+(-0.1021)Cit+(-0.0163)Val+(0.0457)Orn+(0.0504)Phe;0.700,0.744,0.776,0.804,0.752,0.817,0.721,0.774,(1.8946)+(-0.0019)Gly+(0.0031)Gln+(0.0134)Thr+(-0.0049)Ala+(-0.2437)Met+(0.0164)Orn;0.700,0.747,0.783,0.816,0.768,0.787,0.725,0.774,(3.1527)+(-0.1108)Asn+(0.0076)Gln+(-0.0738)Cit+(-0.0040)Arg+(0.0057)Pro+(-0.0418)Tyr;0.700,0.738,0.723,0.741,0.739,0.778,0.601,0.715,(3.4257)+(-0.0013)Gly+(-0.0006)Thr+(-0.1046)Cit+(-0.0536)Tyr+(0.0530)Orn+(-0.0101)Leu;0.700,0.752,0.785,0.790,0.766,0.817,0.790,0.791,(3.9821)+(-0.0033)Arg+(0.0105)Tyr+(-0.0375)Val+(-0.2387)Met+(0.0011)Lys+(0.0635)Leu;0.700,0.750,0.758,0.789,0.712,0.828,0.722,0.763,(1.6502)+(0.0381)Ser+(-0.0086)Gly+(0.0006)Thr+(-0.0054)Ala+(-0.0207)Arg+(-0.0366)Tyr;0.700,0.751,0.690,0.708,0.673,0.785,0.608,0.694,(-1.2142)+(0.0253)Ser+(-0.0357)Arg+(-0.0339)Val+(0.0218)Orn+(0.0268)Leu+(0.0453)Phe;0.700,0.743,0.760,0.800,0.715,0.782,0.730,0.757,(0.7452)+(0.0008)Gly+(0.0034)Gln+(-0.0089)Ala+(-0.0862)Cit+(-0.0532)Tyr+(0.0741)Phe;0.700,0.751,0.692,0.713,0.669,0.756,0.637,0.694,(0.8443)+(0.0399)Ser+(-0.0103)Gly+(-0.0281)Arg+(0.0062)Pro+(-0.0672)Tyr+(0.0185)Orn;0.700,0.747,0.787,0.818,0.757,0.838,0.729,0.786,(2.4597)+(0.0032)Gln+(-0.0037)Ala+(-0.0075)Val+(-0.1788)Met+(0.0302)Orn+(-0.0038)Lys;0.700,0.745,0

.791,0.805,0.787,0.838,0.732,
0.790,(5.6142)+(-0.0879)Asn+(0.0171)Thr+(-0.0069)Ala+(-0.0760)Cit+(0.0028)Arg+(-0.0064)Lys;0.700,0.744,0.777,0.801,0.755,0.821,0.727,0.776,(3.6718)+(-0.0009)Gly+(-0.0036)Ala+(-0.0082)Val+(-0.1589)Met+(0.0348)Orn+(-0.0025)Lys;0.700,0.744,0.694,0.718,0.624,0.753,0.731,0.707,(1.3521)+(0.0355)Ser+(-0.0112)Gly+(0.0081)Pro+(-0.0580)Tyr+(-0.0275)Val+(0.0317)Leu;0.700,0.756,0.676,0.721,0.584,0.764,0.688,0.689,(-1.6001)+(0.0233)Ser+(-0.0112)Ala+(0.0103)Pro+(-0.0667)Tyr+(0.0051)Orn+(0.0598)Phe;0.700,0.751,0.761,0.788,0.718,0.835,0.728,0.767,(1.9626)+(0.0406)Ser+(-0.0087)Gly+(-0.0047)Ala+(-0.0158)Arg+(-0.0290)Tyr+(-0.0088)Lys;0.700,0.748,0.784,0.805,0.789,0.766,0.735,0.774,(1.3451)+(-0.1592)Asn+(0.0066)Gln+(0.0083)Thr+(-0.0838)Cit+(-0.0187)Leu+(0.0632)Phe;0.700,0.751,0.711,0.758,0.704,0.677,0.627,0.691,(2.7703)+(-0.1160)Asn+(0.0204)Thr+(-0.0200)Arg+(0.0038)Pro+(-0.0772)Tyr+(0.0728)Phe;0.700,0.751,0.761,0.799,0.750,0.823,0.636,0.752,(2.3520)+(0.0027)Gln+(0.0131)Thr+(-0.0092)Val+(-0.2374)Met+(0.0236)Orn+(-0.0046)Lys;0.700,0.750,0.780,0.804,0.779,0.806,0.700,0.772,(2.7110)+(0.0059)Gln+(-0.0636)Cit+(-0.0044)Arg+(0.0103)Pro+(-0.0077)Val+(-0.2211)Met;0.700,0.750,0.771,0.795,0.745,0.799,0.741,0.770,(2.7004)+(-0.0074)Ala+(-0.0770)Cit+(0.0038)Arg+(-0.0445)Tyr+(-0.0105)Lys+(0.0821)Phe;0.700,0.746,0.782,0.799,0.759,0.809,0.762,0.782,(2.2883)+(-0.1146)Asn+(0.0023)Gly+(0.0124)Thr+(-0.0088)Ala+(-0.0161)Arg+(0.0563)Phe;0.700,0.746,0.731,0.730,0.711,0.768,0.752,0.740,(0.0578)+(0.0486)Ser+(-0.1630)Asn+(-0.0061)Gly+(0.0027)Gln+(-0.0073)Thr+(0.0029)Pro;0.700,0.741,0.680,0.675,0.703,0.767,0.582,0.682,(-1.0474)+(0.0355)Ser+(-0.0808)Cit+(-0.0096)Arg+(-0.0230)Lys+(-0.0061)Leu+(0.0631)Phe;0.700,0.749,0.707,0.710,0.697,0.772,0.673,0.713,(-0.2137)+(0.0418)Ser+(-0.1641)Asn+(0.0016)Gln+(-0.0097)Thr+(0.0025)Pro+(0.0144)Orn;0.699,0.746,0.746,0.790,0.714,0.769,0.684,0.739,

(1.9108)+(0.0112)Thr+(-0.0073)Ala+(-0.0739)Cit+(-0.0573)Tyr+(-0.0090)Val+(0.0890)Phe;0.699,0.744,0.755,0.760,0.738,0.823,0.726,0.762,(1.4791)+(0.0348)Ser+(-0.0048)Gly+(-0.0047)Thr+(-0.0079)Ala+(-0.0679)Cit+(-0.0098)Arg;0.699,0.743,0.788,0.812,0.787,0.802,0.715,0.779,(2.0543)+(-0.0628)Asn+(-0.0003)Gly+(0.0061)Gln+(-0.0147)Arg+(-0.1833)Met+(0.0215)Orn;0.699,0.747,0.694,0.641,0.743,0.793,0.658,0.709,(2.3948)+(-0.0006)Thr+(-0.1169)Cit+(0.0024)Arg+(0.0471)Orn+(-0.0294)Lys+(0.0373)Ile;0.699,0.746,0.753,0.789,0.714,0.796,0.704,0.751,(4.8930)+(-0.0859)Asn+(0.0159)Thr+(-0.0083)Ala+(-0.0135)Arg+(0.0119)Pro+(-0.0393)Tyr;0.699,0.745,0.740,0.777,0.718,0.704,0.713,0.728,(3.0093)+(-0.0832)Asn+(-0.0076)Arg+(0.0051)Pro+(-0.0627)Tyr+(-0.0071)Lys+(0.0699)Phe;0.699,0.741,0.689,0.674,0.704,0.761,0.645,0.696,(-0.7604)+(0.0406)Ser+(-0.0050)Gly+(-0.0819)Cit+(-0.0256)Lys+(-0.0050)Leu+(0.0581)Phe;0.699,0.752,0.745,0.769,0.777,0.790,0.585,0.730,(4.4572)+(0.0252)Thr+(-0.0669)Cit+(-0.0047)Arg+(-0.0093)Tyr+(-0.2267)Met+(-0.0034)Lys;0.699,0.745,0.774,0.791,0.781,0.795,0.698,0.766,(2.2538)+(0.0062)Gln+(-0.0724)Cit+(-0.0022)Arg+(0.0081)Pro+(-0.2293)Met+(-0.0038)Lys;0.699,0.739,0.712,0.731,0.726,0.773,0.586,0.704,(3.3824)+(-0.0015)Gly+(-0.1029)Cit+(0.0049)Pro+(-0.0591)Tyr+(0.0508)Orn+(-0.0123)Leu;0.699,0.748,0.744,0.756,0.695,0.831,0.746,0.757,(0.6962)+(0.0358)Ser+(-0.0069)Gly+(-0.0106)Ala+(-0.0255)Arg+(0.0117)Pro+(-0.0072)Leu;0.699,0.746,0.779,0.800,0.773,0.834,0.698,0.776,(4.9976)+(-0.0985)Asn+(0.0029)Gly+(0.0142)Thr+(-0.0071)Ala+(-0.0784)Cit+(0.0003)Arg;0.699,0.745,0.744,0.783,0.719,0.772,0.675,0.737,(1.9679)+(0.0134)Thr+(-0.0089)Ala+(-0.0745)Cit+(-0.0104)Arg+(-0.0583)Tyr+(0.0777)Phe;0.699,0.744,0.679,0.684,0.691,0.748,0.590,0.678,(2.1934)+(0.0005)Gly+(-0.0987)Cit+(-0.0100)Arg+(-0.0645)Tyr+(0.0386)Orn+(0.0305)Ile;0.699,0.750,0.740,0.755,0.733,0.805,0.672,0.741,(1.8124)+(0.0367)Ser+(-0.0080)Gly+(0.0021)Gln+(-0.0673)Cit+(-0.0380)Ty

r+(-0.0144)Lys;0.699,0.748,0.764,0.775,0.733,0.755,0.807,0.767,(4.030
8)+(-0.1382)Asn+(-0.0069)Arg+(0.0059)Pro+(-0.0411)Val+(0.0435)Leu+(0.
0616)Phe;0.699,0.746,0.770,0.802,0.749,0.827,0.688,0.766,(2.1292)+(0.
0031)Gln+(0.0132)Thr+(-0.0047)Ala+(-0.2208)Met+(0.0202)Orn+(-0.0078)L
ys;0.699,0.746,0.757,0.785,0.737,0.744,0.738,0.751,(2.9521)+(-0.1413)
Asn+(0.0029)Gly+(0.0065)Pro+(-0.0215)Val+(0.0001)Lys+(0.0746)Phe;0.69
9,0.749,0.731,0.755,0.685,0.795,0.720,0.739,(1.9188)+(0.0392)Ser+(-0.
0098)Gly+(-0.0215)Arg+(-0.0408)Tyr+(-0.0268)Val+(0.0358)Leu;0.699,0.7
47,0.793,0.806,0.753,0.816,0.822,0.799,(1.1273)+(-0.1323)Asn+(0.0012)
Gly+(0.0036)Gln+(-0.0091)Ala+(0.0142)Orn+(0.0453)Phe;0.699,0.745,0.79
0,0.815,0.774,0.839,0.725,0.788,(2.1974)+(0.0043)Gln+(-0.0046)Ala+(-0
.0149)Arg+(-0.1770)Met+(0.0278)Orn+(-0.0048)Lys;0.699,0.747,0.760,0.7
81,0.758,0.801,0.680,0.755,(1.8131)+(0.0044)Gln+(-0.0153)Arg+(0.0065)
Pro+(-0.2363)Met+(0.0210)Orn+(-0.0059)Lys;0.699,0.752,0.787,0.832,0.7
64,0.842,0.680,0.779,(2.3444)+(0.0035)Gln+(0.0171)Thr+(-0.0032)Ala+(-
0.0031)Tyr+(-0.0060)Val+(-0.2337)Met;0.699,0.751,0.773,0.800,0.747,0.
796,0.737,0.770,(2.7124)+(-0.0072)Ala+(-0.0732)Cit+(-0.0448)Tyr+(-0.0
089)Lys+(-0.0028)Leu+(0.0846)Phe;0.699,0.748,0.678,0.628,0.732,0.795,
0.613,0.692,(2.0032)+(0.0031)Gly+(-0.0015)Thr+(-0.1193)Cit+(0.0461)Or
n+(-0.0291)Lys+(0.0396)Ile;0.699,0.748,0.831,0.867,0.800,0.845,0.791,
0.826,(3.1049)+(-0.0781)Asn+(-0.0004)Gly+(0.0067)Gln+(-0.0024)Ala+(-0
.0074)Val+(-0.1222)Met;0.699,0.750,0.699,0.707,0.688,0.808,0.621,0.70
6,(1.8311)+(0.0298)Ser+(-0.0650)Cit+(-0.0285)Tyr+(-0.0217)Val+(-0.016
4)Lys+(0.0397)Leu;0.699,0.743,0.779,0.794,0.764,0.816,0.746,0.780,(3.
7031)+(-0.0517)Asn+(0.0007)Gly+(-0.0049)Ala+(-0.1387)Met+(0.0277)Orn+
(0.0002)Leu;0.699,0.750,0.754,0.750,0.702,0.831,0.818,0.775,(2.1992)+
(0.0008)Gly+(0.0044)Thr+(-0.0109)Ala+(-0.0134)Arg+(-0.0175)Lys+(0.056
8)Ile;0.699,0.749,0.773,0.772,0.770,0.766,0.786,0.773,(0.7356)+(-0.14

93)Asn+(0.0070)Gln+(-0.0896)Cit+(-0.0035)Pro+(0.0249)Ile+(0.0283)Phe;0.699,0.746,0.701,0.729,0.688,0.779,0.602,0.699,(-1.2481)+(0.0340)Ser+(-0.0031)Thr+(-0.0247)Arg+(-0.0140)Val+(-0.0139)Lys+(0.0650)Phe;0.699,0.746,0.748,0.744,0.693,0.801,0.833,0.768,(0.8218)+(-0.0019)Thr+(-0.0140)Ala+(-0.0218)Arg+(0.0064)Pro+(0.0388)Ile+(0.0168)Phe;0.699,0.751,0.680,0.655,0.725,0.783,0.579,0.685,(-0.4109)+(0.0329)Ser+(-0.0014)Gln+(-0.0193)Thr+(-0.0977)Cit+(-0.0128)Arg+(0.0398)Orn;0.699,0.751,0.802,0.832,0.767,0.851,0.762,0.803,(3.7861)+(-0.1366)Asn+(0.0039)Gln+(0.0075)Thr+(-0.0045)Ala+(-0.0143)Val+(0.0303)Orn;0.699,0.757,0.733,0.752,0.712,0.842,0.647,0.738,(0.8955)+(0.0286)Ser+(-0.0008)Gln+(-0.0073)Ala+(-0.0199)Arg+(0.0260)Orn+(-0.0142)Lys;0.699,0.744,0.777,0.802,0.764,0.833,0.698,0.774,(3.9266)+(-0.0035)Ala+(-0.0140)Arg+(-0.0090)Val+(-0.1486)Met+(0.0376)Orn+(0.0004)Lys;0.699,0.747,0.791,0.810,0.792,0.826,0.712,0.785,(5.0339)+(-0.0499)Asn+(0.0036)Gly+(-0.0046)Ala+(-0.0739)Cit+(0.0078)Arg+(-0.0963)Met;0.699,0.743,0.741,0.763,0.749,0.757,0.655,0.731,(3.4800)+(-0.0559)Asn+(0.0004)Gly+(0.0185)Thr+(0.0067)Pro+(-0.2384)Met+(-0.0017)Leu;0.699,0.754,0.726,0.726,0.670,0.823,0.771,0.747,(0.9585)+(0.0398)Ser+(-0.0076)Gly+(-0.0009)Gln+(-0.0101)Ala+(0.0114)Pro+(-0.0174)Lys;0.699,0.747,0.787,0.834,0.779,0.843,0.635,0.773,(2.6293)+(0.0046)Gln+(0.0217)Thr+(-0.0029)Ala+(-0.0195)Arg+(-0.0063)Val+(-0.2300)Met;0.699,0.743,0.823,0.853,0.795,0.838,0.793,0.820,(2.5011)+(-0.0662)Asn+(-0.0002)Gly+(0.0063)Gln+(-0.0037)Ala+(-0.1439)Met+(-0.0017)Lys;0.699,0.749,0.738,0.741,0.762,0.767,0.659,0.732,(2.5032)+(-0.1076)Asn+(0.0060)Gly+(-0.0872)Cit+(0.0065)Arg+(-0.0124)Lys+(0.0616)Phe;0.699,0.747,0.777,0.809,0.760,0.773,0.734,0.769,(2.4280)+(-0.0643)Asn+(0.0060)Gln+(0.0076)Pro+(-0.0184)Tyr+(-0.1732)Met+(-0.0030)Lys;0.699,0.746,0.804,0.830,0.798,0.826,0.733,0.797,(2.5092)+(0.0011)Gly+(0.0060)Gln+(-0.0048)Ala+(-0.0770)Cit+(0.0022)Tyr+(-0.1718)Met;0.6

99,0.741,0.681,0.672,0.697,0.766,0.611,0.686,(-1.2178)+(0.0375)Ser+(-0.0080)Thr+(-0.0863)Cit+(-0.0227)Lys+(-0.0045)Leu+(0.0627)Phe;0.699,0.754,0.752,0.781,0.691,0.846,0.737,0.764,(1.6135)+(0.0308)Ser+(-0.0097)Gly+(-0.0053)Ala+(-0.0423)Tyr+(-0.0089)Val+(0.0265)Orn;0.699,0.744,0.779,0.808,0.766,0.799,0.717,0.773,(2.5265)+(-0.0708)Asn+(0.0054)Gln+(-0.0186)Tyr+(-0.1419)Met+(0.0246)Orn+(-0.0060)Lys;0.699,0.741,0.785,0.814,0.778,0.784,0.726,0.775,(2.0431)+(-0.0576)Asn+(0.0003)Gly+(0.0064)Gln+(-0.0122)Arg+(0.0068)Pro+(-0.2039)Met;0.699,0.741,0.736,0.757,0.731,0.749,0.679,0.729,(3.6052)+(-0.0514)Asn+(0.0004)Gly+(0.0071)Pro+(-0.0243)Tyr+(-0.1638)Met+(0.0234)Orn;0.699,0.754,0.628,0.650,0.568,0.684,0.655,0.639,(-3.0466)+(0.0333)Ser+(-0.0176)Thr+(-0.0749)Tyr+(0.0034)Orn+(0.0313)Ile+(0.0399)Phe;0.699,0.748,0.730,0.755,0.694,0.719,0.749,0.729,(2.7242)+(-0.0788)Asn+(0.0015)Pro+(-0.0627)Tyr+(-0.0131)Lys+(0.0307)Ile+(0.0561)Phe;0.699,0.746,0.720,0.743,0.653,0.784,0.755,0.734,(2.3441)+(0.0065)Thr+(-0.0116)Ala+(-0.0210)Arg+(0.0083)Pro+(-0.0483)Tyr+(0.0461)Ile;0.699,0.750,0.736,0.760,0.702,0.733,0.745,0.735,(2.7983)+(-0.0735)Asn+(-0.0064)Arg+(-0.0606)Tyr+(-0.0118)Lys+(0.0323)Ile+(0.0558)Phe;0.699,0.752,0.708,0.723,0.649,0.800,0.724,0.724,(-1.3394)+(0.0310)Ser+(-0.0114)Ala+(0.0099)Pro+(-0.0214)Lys+(-0.0045)Leu+(0.0522)Phe;0.699,0.744,0.754,0.785,0.707,0.797,0.737,0.757,(4.6451)+(-0.0948)Asn+(-0.0004)Gly+(0.0127)Thr+(-0.0085)Ala+(0.0118)Pro+(-0.0394)Tyr;0.699,0.748,0.738,0.732,0.774,0.826,0.615,0.737,(3.5410)+(0.0002)Gly+(-0.1034)Cit+(-0.0044)Arg+(-0.0105)Val+(0.0594)Orn+(-0.0151)Lys;0.699,0.747,0.742,0.736,0.691,0.805,0.820,0.763,(0.7200)+(-0.0140)Ala+(-0.0242)Arg+(0.0060)Pro+(0.0076)Orn+(0.0364)Ile+(0.0150)Phe;0.699,0.747,0.610,0.613,0.570,0.700,0.620,0.626,(-1.0948)+(0.0365)Ser+(-0.0034)Gln+(-0.0145)Thr+(0.0019)Pro+(-0.0604)Tyr+(0.0418)Ile;0.699,0.743,0.678,0.667,0.699,0.767,0.602,0.684,(-1.2482)+(0.0385)Ser+(-0.0070)

Thr+(-0.0832)Cit+(-0.0057)Arg+(-0.0232)Lys+(0.0591)Phe;0.699,0.755,0.719,0.737,0.701,0.791,0.660,0.722,(1.6642)+(0.0412)Ser+(-0.0103)Gly+(-0.0200)Arg+(-0.0474)Tyr+(0.0293)Orn+(-0.0146)Lys;0.699,0.750,0.749,0.754,0.748,0.783,0.717,0.750,(1.2277)+(-0.1453)Asn+(0.0045)Gly+(0.0061)Gln+(-0.0933)Cit+(-0.0027)Pro+(0.0344)Ile;0.699,0.752,0.733,0.758,0.673,0.824,0.727,0.746,(-1.2658)+(0.0315)Ser+(-0.0057)Thr+(-0.0074)Ala+(-0.0091)Val+(-0.0155)Lys+(0.0665)Phe;0.699,0.749,0.745,0.751,0.727,0.785,0.740,0.751,(0.9368)+(0.0450)Ser+(-0.1676)Asn+(-0.0067)Gly+(0.0028)Gln+(0.0041)Pro+(-0.0108)Leu;0.699,0.736,0.755,0.782,0.719,0.812,0.718,0.758,(3.0542)+(0.0028
)Gln+(0.0043)Thr+(-0.0111)Ala+(-0.0851)Cit+(0.0136)Pro+(-0.0393)Tyr;0.699,0.744,0.782,0.801,0.754,0.799,0.775,0.782,(2.2615)+(-0.1167)Asn+(0.0018)Gly+(-0.0075)Ala+(0.0229)Orn+(-0.0160)Leu+(0.0623)Phe;0.699,0.754,0.744,0.779,0.750,0.799,0.597,0.731,(4.0011)+(0.0216)Thr+(-0.0183)Arg+(0.0109)Pro+(-0.0121)Val+(-0.2598)Met+(0.0034)Lys;0.699,0.749,0.674,0.686,0.680,0.722,0.595,0.671,(1.2906)+(-0.0979)Cit+(-0.0106)Arg+(-0.0770)Tyr+(0.0367)Orn+(0.0227)Ile+(0.0413)Phe;0.699,0.747,0.773,0.800,0.757,0.814,0.707,0.769,(1.8632)+(0.0038)Gln+(0.0184)Thr+(-0.0049)Ala+(-0.2490)Met+(-0.0086)Lys+(0.0113)Leu;0.699,0.747,0.679,0.698,0.683,0.771,0.553,0.676,(-0.6599)+(0.0293)Ser+(-0.0031)Gln+(-0.0336)Arg+(-0.0208)Val+(0.0239)Orn+(0.0590)Phe;0.699,0.743,0.744,0.741,0.691,0.810,0.816,0.765,(0.8252)+(0.0009)Gln+(-0.0137)Ala+(-0.0244)Arg+(0.0059)Pro+(0.0078)Orn+(0.0391)Ile;0.699,0.744,0.729,0.754,0.718,0.777,0.655,0.726,(1.4053)+(0.0361)Ser+(-0.0083)Gly+(0.0015)Gln+(-0.0571)Cit+(-0.0161)Arg+(-0.0499)Tyr;0.699,0.740,0.739,0.776,0.709,0.767,0.685,0.734,(1.6592)+(0.0009)Gly+(0.0095)Thr+(-0.0091)Ala+(-0.0838)Cit+(-0.0562)Tyr+(0.0758)Phe;0.699,0.746,0.688,0.697,0.696,0.753,0.601,0.686,(1.7198)+(0.0017)Gln+(-0.0983)Cit+(-0.0120)Arg+(-0.0660)Tyr+(0.0368)O

rn+(0.0300)Ile;0.699,0.746,0.748,0.746,0.692,0.804,0.828,0.768,(0.398
2)+(0.0011)Gln+(-0.0141)Ala+(-0.0244)Arg+(0.0060)Pro+(0.0384)Ile+(0.0
158)Phe;0.699,0.739,0.698,0.690,0.699,0.767,0.667,0.706,(-0.5220)+(0.
0397)Ser+(-0.0053)Gly+(-0.0725)Cit+(-0.0091)Val+(-0.0224)Lys+(0.0649)
Phe;0.699,0.753,0.707,0.695,0.737,0.742,0.655,0.707,(1.6579)+(-0.1274
)Asn+(0.0067)Gly+(-0.0876)Cit+(-0.0018)Arg+(0.0260)Ile+(0.0346)Phe;0.
699,0.751,0.741,0.759,0.662,0.833,0.791,0.761,(1.4356)+(0.0338)Ser+(-
0.0089)Gly+(-0.0058)Ala+(-0.0365)Tyr+(-0.0264)Val+(0.0405)Leu;0.699,0
.750,0.788,0.831,0.767,0.843,0.680,0.780,(2.3840)+(0.0037)Gln+(0.0175
)Thr+(-0.0032)Ala+(-0.0055)Val+(-0.2315)Met+(-0.0027)Lys;0.699,0.751,
0.769,0.804,0.724,0.837,0.722,0.772,(2.2210)+(0.0379)Ser+(-0.0088)Gly
+(-0.0042)Ala+(-0.0203)Arg+(-0.0306)Tyr+(-0.0060)Val;0.699,0.750,0.74
2,0.775,0.744,0.762,0.635,0.729,(5.3964)+(-0.1000)Asn+(0.0155)Thr+(-0
.0669)Cit+(0.0068)Pro+(-0.0456)Tyr+(-0.0052)Leu;0.699,0.745,0.820,0.8
45,0.792,0.836,0.799,0.818,(2.3394)+(-0.0620)Asn+(0.0063)Gln+(-0.0042
)Ala+(-0.1522)Met+(-0.0033)Lys+(0.0054)Leu;0.699,0.744,0.818,0.846,0.
789,0.831,0.796,0.816,(2.2611)+(-0.0656)Asn+(0.0000)Gly+(0.0061)Gln+(
-0.0042)Ala+(-0.1569)Met+(0.0037)Leu;0.699,0.743,0.752,0.767,0.738,0.
836,0.684,0.756,(1.0399)+(0.0275)Ser+(0.0010)Gln+(-0.0055)Thr+(-0.008
1)Ala+(-0.0756)Cit+(-0.0091)Arg;0.699,0.743,0.748,0.749,0.733,0.825,0
.720,0.757,(1.3239)+(0.0328)Ser+(-0.0046)Gly+(-0.0088)Ala+(-0.0710)Ci
t+(-0.0113)Arg+(0.0030)Leu;0.699,0.742,0.753,0.792,0.720,0.781,0.700,
0.748,(1.7947)+(0.0020)Gly+(-0.0079)Ala+(-0.0788)Cit+(-0.0485)Tyr+(-0
.0065)Leu+(0.0832)Phe;0.699,0.748,0.789,0.802,0.780,0.844,0.732,0.790
,(4.8527)+(-0.0691)Asn+(0.0040)Gly+(-0.0068)Ala+(-0.0759)Cit+(-0.0038
)Lys+(0.0074)Leu;0.699,0.747,0.736,0.750,0.728,0.804,0.668,0.738,(2.4
565)+(0.0380)Ser+(-0.0077)Gly+(-0.0610)Cit+(-0.0340)Tyr+(-0.0027)Val+
(-0.0119)Lys;0.699,0.744,0.801,0.823,0.768,0.810,0.807,0.802,(1.4689)

+(-0.1319)Asn+(0.0038)Gln+(-0.0076)Ala+(0.0197)Orn+(-0.0161)Leu+(0.0589)Phe;0.699,0.745,0.788,0.807,0.782,0.807,0.737,0.784,(2.2038)+(-0.0673)Asn+(0.0054)Gln+(-0.1745)Met+(0.0224)Orn+(-0.0059)Lys+(-0.0011)Leu;0.699,0.745,0.722,0.755,0.698,0.707,0.696,0.714,(2.4784)+(-0.0905)Asn+(-0.0148)Arg+(-0.0669)Tyr+(0.0189)Orn+(0.0197)Ile+(0.0512)Phe;0.699,0.743,0.779,0.814,0.771,0.794,0.695,0.769,(2.4188)+(-0.0681)Asn+(0.0060)Gln+(-0.0148)Arg+(-0.0196)Tyr+(-0.1444)Met+(0.0242)Orn;0.699,0.748,0.762,0.785,0.770,0.781,0.674,0.752,(2.1703)+(0.0012)Gly+(0.0055)Gln+(-0.0757)Cit+(0.0088)Pro+(-0.0122)Tyr+(-0.2270)Met;0.699,0.747,0.788,0.795,0.786,0.786,0.772,0.785,(1.3201)+(-0.1261)Asn+(0.0077)Gln+(-0.0853)Cit+(0.0004)Pro+(-0.0134)Lys+(0.0514)Phe;0.699,0.745,0.720,0.707,0.760,0.804,0.612,0.721,(0.6477)+(0.0294)Ser+(-0.0061)Gly+(-0.0853)Cit+(-0.0227)Arg+(0.0368)Orn+(-0.0157)Leu;0.699,0.743,0.690,0.670,0.704,0.760,0.663,0.699,(-0.9777)+(0.0440)Ser+(-0.0047)Gly+(-0.0078)Thr+(-0.0808)Cit+(-0.0243)Lys+(0.0556)Phe;0.698,0.747,0.668,0.637,0.662,0.762,0.693,0.689,(-0.8632)+(0.0453)Ser+(-0.0073)Gly+(-0.0199)Arg+(-0.0026)Pro+(-0.0273)Lys+(0.0471)Ile;0.698,0.746,0.791,0.824,0.770,0.848,0.708,0.787,(2.6441)+(0.0040)Gln+(-0.0035)Ala+(-0.0173)Arg+(-0.0087)Val+(-0.1697)Met+(0.0331)Orn;0.698,0.745,0.735,0.767,0.747,0.774,0.601,0.722,(1.6303)+(0.0038)Gln+(0.0164)Thr+(-0.0218)Arg+(0.0063)Pro+(-0.2925)Met+(0.0117)Orn;0.698,0.744,0.778,0.802,0.766,0.832,0.704,0.776,(4.0337)+(-0.0007)Gly+(-0.0035)Ala+(-0.0137)Arg+(-0.0091)Val+(-0.1467)Met+(0.0381)Orn;0.698,0.744,0.752,0.766,0.762,0.778,0.678,0.746,(3.7892)+(-0.0426)Asn+(-0.0113)Arg+(0.0069)Pro+(-0.1786)Met+(0.0265)Orn+(-0.0071)Leu;0.698,0.743,0.776,0.798,0.763,0.810,0.722,0.773,(4.2807)+(-0.0476)Asn+(-0.0045)Ala+(-0.0099)Arg+(-0.0152)Tyr+(-0.1030)Met+(0.0328)Orn;0.698,0.748,0.762,0.770,0.728,0.756,0.814,0.767,(3.9252)+(-0.1453)Asn+(0.0057)Pro+(-0.0415)Val+(-0.0007)Lys+(0.0446)Leu+(0.0606)

Phe;0.698,0.743,0.680,0.658,0.699,0.758,0.643,0.689,(-0.8750)+(0.0412)Ser+(-0.0048)Gly+(-0.0835)Cit+(0.0015)Pro+(-0.0275)Lys+(0.0524)Phe;0.698,0.741,0.758,0.769,0.740,0.833,0.712,0.764,(1.8893)+(0.0331)Ser+(-0.0054)Gly+(-0.0071)Ala+(-0.0619)Cit+(-0.0123)Arg+(-0.0041)Val;0.698,0.737,0.669,0.657,0.691,0.763,0.586,0.674,(-1.1258)+(0.0345)Ser+(-0.0890)Cit+(0.0023)Pro+(-0.0259)Lys+(-0.0058)Leu+(0.0598)Phe;0.698,0.743,0.691,0.674,0.727,0.789,0.588,0.695,(0.2247)+(0.0300)Ser+(-0.0016)Gln+(-0.0205)Thr+(-0.1061)Cit+(0.0460)Orn+(-0.0113)Leu;0.698,0.757,0.736,0.774,0.701,0.834,0.640,0.737,(0.8019)+(0.0266)Ser+(-0.0054)Thr+(-0.0067)Ala+(-0.0234)Arg+(-0.0323)Tyr+(0.0259)Orn;0.698,0.745,0.760,0.769,0.755,0.831,0.700,0.764,(1.9137)+(0.0030)Gly+(0.0093)Thr+(-0.0101)Ala+(-0.0918)Cit+(-0.0160)Lys+(0.0642)Phe;0.698,0.741,0.683,0.663,0.701,0.759,0.644,0.692,(-0.7998)+(0.0413)Ser+(-0.0048)Gly+(-0.0001)Gln+(-0.0831)Cit+(-0.0270)Lys+(0.0540)Phe;0.698,0.751,0.738,0.716,0.757,0.788,0.719,0.745,(4.0679)+(-0.0883)Asn+(0.0141)Thr+(-0.0806)Cit+(-0.0035)Pro+(-0.0180)Lys+(0.0447)Ile;0.698,0.746,0.762,0.780,0.742,0.824,0.711,0.764,(4.4042)+(0.0021)Gly+(-0.0102)Ala+(-0.0791)Cit+(0.0144)Pro+(-0.0267)Tyr+(-0.0056)Lys;0.698,0.744,0.739,0.765,0.725,0.794,0.660,0.736,(2.4222)+(0.0370)Ser+(-0.0083)Gly+(-0.0481)Cit+(-0.0148)Arg+(-0.0391)Tyr+(-0.0063)Val;0.698,0.740,0.720,0.770,0.707,0.730,0.607,0.703,(1.7264)+(-0.0199)Arg+(-0.0656)Tyr+(0.0320)Orn+(-0.0102)Lys+(-0.0178)Leu+(0.0782)Phe;0.698,0.743,0.687,0.742,0.627,0.701,0.653,0.681,(0.7642)+(0.0048)Pro+(-0.0735)Tyr+(-0.0277)Val+(0.0242)Orn+(0.0186)Leu+(0.0653)Phe;0.698,0.746,0.687,0.632,0.736,0.788,0.659,0.704,(1.7584)+(-0.1190)Cit+(0.0022)Arg+(0.0466)Orn+(-0.0318)Lys+(0.0338)Ile+(0.0225)Phe;0.698,0.750,0.788,0.819,0.774,0.800,0.729,0.780,(3.3591)+(-0.1044)Asn+(0.0078)Gln+(-0.0758)Cit+(0.0058)Pro+(-0.0381)Tyr+(-0.0060)Lys;0.698,0.746,0.764,0.803,0.766,0.797,0.631,0.749,(5.9854)+(-0.1075)As

n+(0.0011)Gly+(0.0181)Thr+(-0.0604)Cit+(-0.0285)Tyr+(-0.0084)Val;0.69
8,0.743,0.682,0.686,0.695,0.746,0.597,0.681,(2.2898)+(-0.0981)Cit+(-0
.0098)Arg+(-0.0001)Pro+(-0.0646)Tyr+(0.0389)Orn+(0.0303)Ile;0.698,0.7
44,0.775,0.809,0.755,0.771,0.729,0.766,(2.4349)+(-0.0681)Asn+(0.0059)
Gln+(0.0080)Pro+(-0.0190)Tyr+(-0.1727)Met+(-0.0033)Leu;0.698,0.743,0.
739,0.763,0.758,0.762,0.620,0.725,(3.8663)+(-0.0463)Asn+(0.0220)Thr+(
-0.0140)Arg+(0.0069)Pro+(-0.2358)Met+(-0.0016)Leu;0.698,0.748,0.812,0
.838,0.763,0.833,0.828,0.816,(3.7090)+(-0.1459)Asn+(0.0068)Gln+(-0.01
08)Arg+(-0.0396)Val+(0.0000)Lys+(0.0538)Leu;0.698,0.741,0.705,0.734,0
.613,0.764,0.781,0.723,(0.6015)+(-0.0124)Ala+(0.0074)Pro+(-0.0618)Tyr
+(0.0044)Orn+(0.0362)Ile+(0.0376)Phe;0.698,0.748,0.782,0.825,0.769,0.
815,0.674,0.771,(2.5078)+(-0.0028)Gly+(0.0040)Gln+(0.0186)Thr+(-0.009
1)Tyr+(-0.0077)Val+(-0.2464)Met;0.698,0.745,0.778,0.808,0.755,0.810,0
.721,0.774,(1.6975)+(-0.0016)Gly+(0.0036)Gln+(0.0171)Thr+(-0.0049)Ala
+(-0.2627)Met+(0.0066)Leu;0.698,0.743,0.772,0.776,0.748,0.826,0.768,0
.780,(4.0936)+(-0.0756)Asn+(-0.0093)Ala+(-0.0103)Arg+(0.0093)Pro+(0.0
272)Orn+(-0.0074)Lys;0.698,0.758,0.702,0.726,0.647,0.825,0.660,0.715,
(0.9973)+(0.0254)Ser+(-0.0092)Ala+(0.0118)Pro+(-0.0357)Tyr+(0.0205)Or
n+(-0.0161)Lys;0.698,0.742,0.671,0.658,0.698,0.764,0.581,0.675,(-1.06
95)+(0.0364)Ser+(-0.0002)Gln+(-0.0833)Cit+(-0.0080)Arg+(-0.0251)Lys+(
0.0580)Phe;0.698,0.744,0.744,0.758,0.755,0.770,0.667,0.737,(3.3437)+(
-0.0412)Asn+(0.0012)Gly+(-0.0109)Arg+(0.0063)Pro+(-0.1963)Met+(0.0229
)Orn;0.698,0.742,0.792,0.822,0.760,0.836,0.747,0.791,(2.4897)+(-0.001
8)Gly+(0.0034)Gln+(-0.0036)Ala+(-0.0086)Val+(-0.1868)Met+(0.0295)Orn;
0.698,0.745,0.814,0.852,0.792,0.829,0.751,0.806,(3.8104)+(-0.1132)Asn
+(0.0080)Gln+(-0.0676)Cit+(-0.0236)Tyr+(-0.0076)Val+(-0.0009)Lys;0.69
8,0.744,0.742,0.750,0.728,0.829,0.689,0.749,(1.0198)+(0.0292)Ser+(-0.
0057)Thr+(-0.0088)Ala+(-0.0774)Cit+(-0.0078)Arg+(0.0054)Leu;0.698,0.7

48,0.828,0.866,0.796,0.843,0.784,0.822,(3.1470)+(-0.0794)Asn+(0.0066)Gln+(-0.0023)Ala+(-0.0047)Tyr+(-0.0072)Val+(-0.1144)Met;0.698,0.747,0.785,0.802,0.759,0.832,0.760,0.788,(1.9425)+(0.0037)Gln+(-0.0051)Ala+(-0.1926)Met+(0.0241)Orn+(-0.0087)Lys+(0.0067)Leu;0.698,0.747,0.744,0.808,0.699,0.770,0.648,0.731,(1.6909)+(0.0161)Thr+(-0.0059)Ala+(-0.0250)Arg+(-0.0605)Tyr+(-0.0134)Val+(0.0932)Phe;0.698,0.744,0.742,0.776,0.748,0.777,0.613,0.728,(1.9015)+(0.0044)Gln+(0.0190)Thr+(-0.0194)Arg+(0.0069)Pro+(-0.2832)Met+(-0.0042)Lys;0.698,0.741,0.807,0.841,0.763,0.842,0.785,0.808,(3.8319)+(-0.1062)Asn+(0.0055)Gln+(-0.0066)Ala+(-0.0117)Arg+(0.0118)Pro+(-0.0123)Val;0.698,0.752,0.735,0.707,0.757,0.786,0.725,0.744,(3.9627)+(-0.0918)Asn+(0.0123)Thr+(-0.0828)Cit+(0.0042)Arg+(-0.0183)Lys+(0.0404)Ile;0.698,0.751,0.697,0.713,0.711,0.791,0.558,0.693,(1.6266)+(0.0307)Ser+(-0.0730)Cit+(-0.0038)Arg+(-0.0336)Tyr+(-0.0155)Lys+(0.0075)Leu;0.698,0.746,0.746,0.763,0.759,0.747,0.677,0.736,(0.5683)+(-0.1680)Asn+(0.0047)Gly+(0.0061)Gln+(0.0055)Thr+(-0.0940)Cit+(0.0472)Phe;0.698,0.748,0.707,0.728,0.683,0.769,0.656,0.709,(1.4946)+(0.0439)Ser+(-0.0100)Gly+(-0.0191)Arg+(0.0080)Pro+(-0.0507)Tyr+(-0.0119)Lys;0.698,0.745,0.621,0.586,0.634,0.748,0.594,0.640,(-1.7230)+(0.0408)Ser+(-0.0024)Gln+(-0.

0225)Arg+(-0.0284)Lys+(0.0418)Ile+(0.0274)Phe;0.698,0.739,0.745,0.764,0.756,0.778,0.647,0.736,(3.6572)+(-0.0556)Asn+(-0.0004)Gly+(0.0175)Thr+(-0.2037)Met+(0.0204)Orn+(-0.0063)Lys;0.698,0.752,0.770,0.766,0.753,0.824,0.778,0.780,(2.6378)+(-0.0123)Ala+(-0.0862)Cit+(0.0021)Arg+(0.0110)Pro+(-0.0134)Lys+(0.0544)Phe;0.698,0.753,0.655,0.617,0.686,0.762,0.615,0.670,(-1.9577)+(0.0351)Ser+(-0.0223)Thr+(-0.0961)Cit+(-0.0150)Arg+(0.0299)Orn+(0.0261)Ile;0.698,0.747,0.787,0.811,0.770,0.835,0.727,0.786,(5.0735)+(-0.0911)Asn+(0.0004)Gly+(-0.0041)Ala+(-0.0128)Arg+(-0.0134)Val+(0.0412)Orn;0.698,0.744,0.698,0.699,0.727,0.816,0.548,0.

697,(0.8986)+(0.0206)Ser+(-0.0836)Cit+(-0.0217)Arg+(0.0032)Pro+(-0.0150)Val+(0.0417)Orn;0.698,0.740,0.786,0.826,0.734,0.814,0.769,0.785,(3.2845)+(-0.0899)Asn+(0.0055)Gln+(-0.0078)Ala+(-0.0124)Arg+(0.0114)Pro+(-0.0343)Tyr;0.698,0.753,0.724,0.736,0.717,0.805,0.649,0.727,(0.8270)+(0.0376)Ser+(-0.1498)Asn+(0.0019)Gln+(0.0204)Orn+(-0.0114)Lys+(-0.0034)Leu;0.698,0.749,0.772,0.771,0.754,0.824,0.772,0.780,(2.6418)+(-0.0121)Ala+(-0.0837)Cit+(0.0112)Pro+(-0.0122)Lys+(-0.0034)Leu+(0.0570)Phe;0.698,0.745,0.748,0.789,0.728,0.723,0.700,0.735,(2.7694)+(-0.0869)Asn+(0.0017)Gly+(-0.0077)Arg+(-0.0566)Tyr+(-0.0064)Lys+(0.0740)Phe;0.698,0.743,0.749,0.760,0.753,0.775,0.695,0.746,(3.6250)+(-0.0454)Asn+(0.0066)Pro+(-0.1822)Met+(0.0251)Orn+(-0.0044)Lys+(-0.0044)Leu;0.698,0.748,0.721,0.715,0.709,0.771,0.729,0.731,(0.1625)+(0.0461)Ser+(-0.1771)Asn+(-0.0060)Gly+(0.0020)Gln+(0.0012)Pro+(0.0105)Orn;0.698,0.747,0.755,0.772,0.763,0.757,0.690,0.745,(0.4932)+(-0.1585)Asn+(0.0049)Gly+(0.0064)Gln+(-0.0932)Cit+(0.0001)Pro+(0.0480)Phe;0.698,0.742,0.788,0.815,0.780,0.789,0.730,0.778,(2.1445)+(-0.0563)Asn+(0.0065)Gln+(-0.0114)Arg+(0.0069)Pro+(-0.1992)Met+(-0.0019)Lys;0.698,0.742,0.789,0.817,0.788,0.808,0.706,0.780,(2.2444)+(-0.0659)Asn+(0.0060)Gln+(-0.0149)Arg+(-0.1701)Met+(0.0235)Orn+(-0.0044)Leu;0.698,0.748,0.734,0.739,0.760,0.760,0.647,0.727,(2.4936)+(-0.1051)Asn+(0.0061)Gly+(-0.0823)Cit+(0.0022)Pro+(-0.0114)Lys+(0.0585)Phe;0.698,0.747,0.757,0.786,0.754,0.810,0.650,0.750,(3.5467)+(-0.0021)Gly+(0.0154)Thr+(-0.0100)Val+(-0.2236)Met+(0.0278)Orn+(-0.0038)Lys;0.698,0.747,0.804,0.832,0.801,0.807,0.735,0.794,(2.8572)+(-0.0741)Asn+(0.0083)Gln+(-0.0728)Cit+(-0.0005)Arg+(-0.0103)Tyr+(-0.1366)Met;0.698,0.740,0.774,0.796,0.753,0.807,0.737,0.773,(4.0171)+(-0.0547)Asn+(0.0003)Gly+(-0.0046)Ala+(-0.0146)Tyr+(-0.1126)Met+(0.0298)Orn;0.698,0.739,0.723,0.745,0.738,0.783,0.593,0.715,(2.7482)+(0.0013)Gln+(-0.0029)Thr+(-0.1072)Cit+(-0.0528)Tyr+(0.0514)Orn+

(-0.0099)Leu;0.698,0.744,0.723,0.743,0.715,0.774,0.648,0.720,(1.7265)+(0.0382)Ser+(-0.0078)Gly+(-0.0017)Thr+(-0.0556)Cit+(-0.0138)Arg+(-0.0468)Tyr;0.698,0.741,0.731,0.762,0.639,0.775,0.807,0.746,(0.5960)+(-0.0015)Gly+(0.0008)Gln+(-0.0109)Ala+(-0.0598)Tyr+(0.0426)Ile+(0.0394)Phe;0.698,0.750,0.740,0.741,0.747,0.770,0.701,0.740,(1.2772)+(-0.1527)Asn+(0.0045)Gly+(0.0058)Gln+(0.0037)Thr+(-0.0940)Cit+(0.0301)Ile;0.698,0.750,0.769,0.796,0.760,0.796,0.693,0.761,(4.0455)+(-0.0584)Asn+(0.0224)Thr+(-0.0044)Ala+(-0.0127)Tyr+(-0.1798)Met+(0.0060)Leu;0.698,0.746,0.796,0.813,0.755,0.811,0.825,0.801,(1.1371)+(-0.1425)Asn+(0.0010)Gly+(0.0039)Gln+(0.0072)Thr+(-0.0090)Ala+(0.0495)Phe;0.698,0.744,0.648,0.600,0.633,0.747,0.734,0.679,(-1.2434)+(0.0499)Ser+(-0.0071)Gly+(-0.0014)Gln+(-0.0130)Thr+(-0.0274)Lys+(0.0476)Ile;0.698,0.749,0.793,0.814,0.797,0.829,0.704,0.786,(5.0888)+(-0.0444)Asn+(0.0036)Gly+(-0.0045)Ala+(-0.0681)Cit+(0.0027)Tyr+(-0.0956)Met;0.698,0.745,0.636,0.603,0.639,0.758,0.629,0.657,(-1.2617)+(0.0413)Ser+(-0.0015)Gln+(-0.0099)Thr+(-0.0172)Arg+(-0.0240)Lys+(0.0490)Ile;0.698,0.740,0.733,0.751,0.674,0.796,0.765,0.746,(2.2865)+(-0.0004)Gly+(-0.0099)Ala+(-0.0195)Arg+(-0.0438)Tyr+(0.0168)Orn+(0.0475)Ile;0.698,0.742,0.752,0.793,0.711,0.773,0.711,0.747,(0.9017)+(0.0027)Gln+(0.0073)Thr+(-0.0093)Ala+(-0.0868)Cit+(-0.0584)Tyr+(0.0741)Phe;0.698,0.747,0.770,0.776,0.744,0.822,0.772,0.779,(2.6516)+(-0.0112)Ala+(-0.0778)Cit+(0.0117)Pro+(-0.0078)Val+(-0.0102)Lys+(0.0623)Phe;0.698,0.743,0.632,0.606,0.642,0.749,0.595,0.648,(-2.1714)+(0.0368)Ser+(-0.0251)Arg+(0.0080)Orn+(-0.0298)Lys+(0.0388)Ile+(0.0236)Phe;0.698,0.743,0.739,0.758,0.750,0.758,0.654,0.730,(3.6543)+(-0.0512)Asn+(0.0197)Thr+(0.0065)Pro+(-0.2338)Met+(-0.0041)Lys+(0.0004)Leu;0.698,0.747,0.770,0.792,0.773,0.792,0.693,0.762,(2.4329)+(0.0061)Gln+(-0.0731)Cit+(0.0087)Pro+(-0.0125)Tyr+(-0.2117)Met+(-0.0039)Lys;0.697,0.748,0.627,0.574,0.624,0.728,0.701,0.657,(-1.4611)+(0.0

480)Ser+(-0.0074)Gly+(-0.0026)Gln+(-0.0335)Lys+(0.0403)Ile+(0.0220)Ph
e;0.697,0.750,0.765,0.798,0.716,0.831,0.732,0.769,(1.3567)+(0.0371)Se
r+(-0.0088)Gly+(0.0012)Gln+(-0.0055)Ala+(-0.0218)Arg+(-0.0374)Tyr;0.6
97,0.744,0.784,0.808,0.773,0.780,0.743,0.776,(2.1515)+(-0.0624)Asn+(0
.0060)Gln+(0.0070)Pro+(-0.2003)Met+(-0.0030)Lys+(-0.0019)Leu;0.697,0.
744,0.655,0.629,0.676,0.786,0.582,0.668,(1.2744)+(0.0230)Ser+(-0.0042
)Gln+(-0.0960)Cit+(-0.0316)Val+(0.0472)Orn+(0.0336)Leu;0.697,0.740,0.
739,0.744,0.717,0.825,0.705,0.748,(0.7237)+(0.0285)Ser+(0.0004)Gln+(-
0.0082)Thr+(-0.0091)Ala+(-0.0842)Cit+(0.0058)Leu;0.697,0.746,0.787,0.
802,0.735,0.836,0.820,0.798,(5.1712)+(-0.1121)Asn+(0.0019)Gly+(-0.004
4)Ala+(-0.0374)Val+(0.0005)Lys+(0.0584)Leu;0.697,0.741,0.785,0.805,0.
753,0.793,0.794,0.786,(2.9905)+(-0.0937)Asn+(-0.0095)Ala+(-0.0110)Arg
+(0.0104)Pro+(-0.0156)Leu+(0.0639)Phe;0.697,0.750,0.747,0.752,0.752,0
.777,0.704,0.746,(1.2477)+(-0.1413)Asn+(0.0045)Gly+(0.0062)Gln+(-0.08
92)Cit+(-0.0059)Arg+(0.0309)Ile;0.697,0.747,0.776,0.813,0.765,0.826,0
.668,0.768,(3.8552)+(-0.0015)Gly+(0.0207)Thr+(-0.0031)Ala+(-0.0052)Ty
r+(-0.0059)Val+(-0.2127)Met;0.697,0.746,0.798,0.830,0.750,0.845,0.781
,0.802,(3.9625)+(-0.1314)Asn+(0.0043)Gln+(0.0094)Thr+(-0.0070)Ala+(0.
0115)Pro+(-0.0136)Val;0.697,0.743,0.727,0.772,0.706,0.686,0.678,0.711
,(2.5130)+(-0.0960)Asn+(0.0019)Gly+(-0.0120)Arg+(0.0049)Pro+(-0.0643)
Tyr+(0.0677)Phe;0.697,0.741,0.686,0.674,0.709,0.759,0.615,0.689,(-1.9
064)+(0.0314)Ser+(-0.0239)Thr+(-0.1089)Cit+(0.0414)Orn+(-0.0198)Leu+(
0.0473)Phe;0.697,0.748,0.789,0.796,0.787,0.786,0.774,0.786,(1.3190)+(
-0.1267)Asn+(0.0077)Gln+(-0.0865)Cit+(0.0015)Arg+(-0.0137)Lys+(0.0521
)Phe;0.697,0.746,0.698,0.682,0.659,0.794,0.753,0.722,(0.7241)+(0.0413
)Ser+(-0.0093)Gly+(0.0045)Pro+(-0.0317)Val+(-0.0221)Lys+(0.0441)Leu;0
.697,0.746,0.810,0.834,0.802,0.832,0.746,0.803,(2.7102)+(0.0064)Gln+(
-0.0046)Ala+(-0.0747)Cit+(-0.0007)Arg+(-0.1599)Met+(-0.0024)Lys;0.697

,0.745,0.745,0.776,0.698,0.792,0.725,0.748,(4.2940)+(-0.0979)Asn+(0.0086)Thr+(-0.0087)Ala+(0.0108)Pro+(-0.0421)Tyr+(0.0220)Orn;0.697,0.744,0.787,0.802,0.737,0.835,0.815,0.798,(5.2278)+(-0.1081)Asn+(0.0020)Gly+(-0.0043)Ala+(-0.0025)Arg+(-0.0368)Val+(0.0578)Leu;0.697,0.753,0.716,0.728,0.664,0.814,0.724,0.732,(-1.1577)+(0.0357)Ser+(-0.0017)Gln+(-0.0069)Thr+(-0.0084)Ala+(-0.0181)Lys+(0.0576)Phe;0.697,0.749,0.733,0.747,0.679,0.807,0.756,0.747,(2.9825)+(0.0114)Thr+(-0.0092)Ala+(-0.0139)Arg+(-0.0400)Tyr+(-0.0152)Lys+(0.0595)Ile;0.697,0.743,0.743,0.737,0.691,0.806,0.824,0.764,(1.2492)+(-0.0035)Thr+(-0.0135)Ala+(-0.0216)Arg+(0.0063)Pro+(0.0104)Orn+(0.0392)Ile;0.697,0.753,0.706,0.747,0.688,0.689,0.649,0.693,(2.5303)+(-0.1119)Asn+(0.0197)Thr+(-0.0203)Arg+(-0.0765)Tyr+(0.0223)Ile+(0.0612)Phe;0.697,0.746,0.794,0.806,0.756,0.814,0.824,0.800,(1.2661)+(-0.1386)Asn+(0.0037)Gln+(0.0053)Thr+(-0.0093)Ala+(0.0121)Orn+(0.0443)Phe;0.697,0.747,0.718,0.735,0.708,0.785,0.645,0.718,(0.7412)+(0.0363)Ser+(-0.1716)Asn+(0.0016)Gln+(0.0035)Pro+(0.0150)Orn+(-0.0115)Leu;0.697,0.746,0.715,0.731,0.678,0.778,0.702,0.722,(1.8741)+(0.0343)Ser+(-0.0081)Gly+(-0.0560)Cit+(-0.0462)Tyr+(-0.0227)Val+(0.0319)Leu;0.697,0.742,0.806,0.837,0.754,0.843,0.806,0.810,(3.8026)+(-0.1157)Asn+(-0.0001)Gly+(0.0048)Gln+(-0.0069)Ala+(0.0120)Pro+(-0.0126)Val;0.697,0.741,0.768,0.772,0.737,0.825,0.781,0.779,(3.8777)+(-0.0850)Asn+(0.0008)Gly+(-0.0094)Ala+(0.0094)Pro+(0.0250)Orn+(-0.0091)Lys;0.697,0.740,0.669,0.653,0.688,0.760,0.610,0.678,(-1.3573)+(0.0388)Ser+(-0.0092)Thr+(-0.0874)Cit+(0.0027)Pro+(-0.0245)Lys+(0.0564)Phe;0.697,0.739,0.739,0.761,0.677,0.803,0.767,0.752,(1.5695)+(0.0019)Gln+(-0.0100)Ala+(-0.0221)Arg+(-0.0444)Tyr+(0.0143)Orn+(0.0474)Ile;0.697,0.743,0.790,0.808,0.763,0.815,0.784,0.793,(2.5106)+(-0.0906)Asn+(0.0026)Gly+(-0.0077)Ala+(-0.0084)Arg+(-0.0061)Lys+(0.0599)Phe;0.697,0.751,0.717,0.750,0.652,0.840,0.675,0.729,(1.4689)+(0.0257)Ser+(-0.0085)Ala+(

0.0140)Pro+(-0.0301)Tyr+(-0.0058)Val+(-0.0110)Lys;0.697,0.745,0.771,0.793,0.731,0.849,0.742,0.779,(1.7936)+(0.0389)Ser+(-0.0080)Gly+(-0.0053)Ala+(-0.0177)Arg+(-0.0057)Val+(-0.0093)Lys;0.697,0.742,0.718,0.718,0.633,0.825,0.815,0.748,(0.4614)+(0.0311)Ser+(-0.0077)Gly+(-0.0106)Ala+(0.0111)Pro+(-0.0297)Val+(0.0366)Leu;0.697,0.743,0.745,0.786,0.717,0.763,0.683,0.737,(1.8491)+(0.0104)Thr+(-0.0083)Ala+(-0.0802)Cit+(-0.0576)Tyr+(-0.0073)Leu+(0.0833)Phe;0.697,0.749,0.629,0.569,0.631,0.741,0.700,0.660,(-0.8368)+(0.0461)Ser+(-0.0077)Gly+(-0.0025)Gln+(0.0109)Orn+(-0.0326)Lys+(0.0422)Ile;0.697,0.746,0.679,0.716,0.648,0.787,0.569,0.680,(1.2104)+(0.0264)Ser+(-0.0256)Arg+(0.0086)Pro+(-0.0426)Tyr+(-0.0272)Val+(0.0319)Leu;0.697,0.740,0.676,0.663,0.694,0.765,0.609,0.683,(-1.2571)+(0.0382)Ser+(-0.0001)Gln+(-0.0080)Thr+(-0.0874)Cit+(-0.0241)Lys+(0.0589)Phe;0.697,0.747,0.729,0.772,0.731,0.769,0.582,0.714,(2.0503)+(0.0042)Gln+(0.0198)Thr+(-0.0213)Arg+(0.0079)Pro+(-0.0192)Tyr+(-0.2683)Met;0.697,0.743,0.737,0.773,0.725,0.752,0.660,0.727,(1.8469)+(-0.0023)Gly+(0.0035)Gln+(0.0158)Thr+(0.0077)Pro+(-0.0214)Tyr+(-0.2764)Met;0.697,0.741,0.740,0.749,0.727,0.833,0.675,0.746,(0.9679)+(0.0262)Ser+(0.0005)Gln+(-0.0092)Ala+(-0.0787)Cit+(-0.0106)Arg+(0.0043)Leu;0.697,0.750,0.703,0.697,0.682,0.764,0.717,0.715,(-0.9563)+(0.0392)Ser+(-0.0091)Gly+(-0.0149)Val+(0.0228)Orn+(-0.0240)Lys+(0.0526)Phe;0.697,0.743,0.793,0.816,0.776,0.833,0.739,0.791,(2.0779)+(-0.0012)Gly+(0.0045)Gln+(-0.0048)Ala+(-0.0166)Arg+(-0.1889)Met+(0.0257)Orn;0.697,0.748,0.612,0.612,0.577,0.703,0.619,0.628,(-1.1198)+(0.0363)Ser+(-0.0036)Gln+(-0.0156)Thr+(-0.0598)Tyr+(0.0098)Orn+(0.0413)Ile;0.697,0.739,0.678,0.684,0.683,0.737,0.610,0.679,(1.6655)+(-0.0002)Gly+(0.0008)Gln+(-0.1067)Cit+(-0.0693)Tyr+(0.0369)Orn+(0.0301)Ile;0.697,0.744,0.739,0.763,0.732,0.757,0.678,0.732,(3.9425)+(-0.0546)Asn+(0.0078)Pro+(-0.0249)Tyr+(-0.1465)Met+(0.0263)O

rn+(-0.0066)Leu;0.697,0.740,0.723,0.750,0.636,0.770,0.798,0.738,(0.79
72)+(-0.0015)Gly+(-0.0109)Ala+(-0.0600)Tyr+(0.0076)Orn+(0.0405)Ile+(0
.0384)Phe;0.697,0.748,0.773,0.810,0.764,0.811,0.667,0.763,(1.8892)+(0
.0044)Gln+(0.0209)Thr+(-0.0046)Ala+(-0.0192)Arg+(-0.2557)Met+(0.0069)
Leu;0.697,0.746,0.698,0.650,0.742,0.798,0.662,0.713,(1.6909)+(0.0021)
Gln+(-0.1174)Cit+(-0.0002)Arg+(0.0446)Orn+(-0.0306)Lys+(0.0375)Ile;0.
697,0.744,0.788,0.810,0.761,0.834,0.756,0.790,(4.8515)+(-0.1000)Asn+(
0.0001)Gly+(-0.0043)Ala+(-0.0129)Val+(0.0382)Orn+(-0.0018)Lys;0.697,0
.742,0.739,0.785,0.686,0.701,0.755,0.732,(0.8852)+(-0.1281)Asn+(0.000
5)Gly+(0.0046)Gln+(-0.0689)Tyr+(0.0220)Ile+(0.0537)Phe;0.697,0.741,0.
744,0.760,0.746,0.769,0.683,0.739,(3.3945)+(-0.0513)Asn+(0.0008)Gly+(
0.0068)Pro+(-0.1899)Met+(0.0227)Orn+(-0.0062)Leu;0.697,0.753,0.706,0.
732,0.644,0.828,0.677,0.720,(1.3682)+(0.0288)Ser+(-0.0012)Gln+(-0.009
0)Ala+(0.0133)Pro+(-0.0318)Tyr+(-0.0128)Lys;0.697,0.749,0.769,0.803,0
.768,0.805,0.654,0.757,(4.6150)+(-0.0534)Asn+(0.0248)Thr+(-0.0037)Ala
+(-0.0118)Arg+(-0.0120)Tyr+(-0.1636)Met;0.697,0.747,0.622,0.578,0.615
,0.740,0.672,0.651,(-2.8071)+(0.0403)Ser+(-0.0175)Thr+(0.0104)Orn+(-0
.0301)Lys+(0.0423)Ile+(0.0197)Phe;0.697,0.741,0.719,0.739,0.702,0.763
,0.670,0.719,(1.1284)+(0.0364)Ser+(-0.0075)Gly+(0.0009)Gln+(-0.0063)T
hr+(-0.0677)Cit+(-0.0484)Tyr;0.697,0.744,0.668,0.696,0.670,0.753,0.52
6,0.661,(1.2047)+(0.0254)Ser+(-0.0006)Gln+(-0.0785)Cit+(0.0075)Pro+(-
0.0545)Tyr+(-0.0047)Leu;0.697,0.744,0.789,0.812,0.781,0.801,0.739,0.7
83,(2.1034)+(-0.0727)Asn+(-0.0004)Gly+(0.0054)Gln+(-0.1826)Met+(0.020
2)Orn+(-0.0040)Leu;0.697,0.745,0.766,0.795,0.743,0.814,0.705,0.764,(1
.6094)+(0.0028)Gln+(0.0132)Thr+(-0.0052)Ala+(-0.2527)Met+(0.0142)Orn+
(0.0047)Leu;0.697,0.739,0.686,0.683,0.694,0.770,0.619,0.691,(-0.9869)
+(0.0355)Ser+(-0.0063)Thr+(-0.0788)Cit+(-0.0084)Val+(-0.0204)Lys+(0.0
688)Phe;0.697,0.748,0.791,0.801,0.758,0.825,0.810,0.799,(6.0892)+(-0.

0876)Asn+(-0.0046)Ala+(-0.0483)Cit+(-0.0095)Tyr+(-0.0299)Val+(0.0505)Leu;0.697,0.747,0.792,0.818,0.781,0.832,0.716,0.787,(5.3147)+(-0.0683)Asn+(0.0032)Gly+(-0.0054)Ala+(-0.0696)Cit+(-0.0121)Tyr+(-0.0006)Lys;0.697,0.751,0.705,0.738,0.647,0.770,0.690,0.711,(1.4763)+(0.0325)Ser+(-0.0118)Gly+(0.0084)Pro+(-0.0619)Tyr+(-0.0138)Val+(0.0229)Orn;0.697,0.745,0.640,0.590,0.633,0.738,0.716,0.669,(-2.0066)+(0.0446)Ser+(-0.0084)Gly+(0.0078)Orn+(-0.0355)Lys+(0.0372)Ile+(0.0177)Phe;0.697,0.743,0.746,0.763,0.673,0.803,0.812,0.763,(-1.3159)+(0.0366)Ser+(-0.0065)Gly+(-0.0121)Thr+(-0.0079)Ala+(-0.0120)Val+(0.0567)Phe;0.697,0.743,0.723,0.777,0.673,0.712,0.691,0.714,(1.3635)+(-0.0038)Gly+(-0.0000)Gln+(-0.0733)Tyr+(-0.0182)Val+(0.0297)Orn+(0.0762)Phe;0.697,0.743,0.738,0.733,0.686,0.806,0.810,0.759,(1.0328)+(0.0007)Gly+(-0.0137)Ala+(-0.0237)Arg+(0.0061)Pro+(0.0084)Orn+(0.0396)Ile;0.697,0.750,0.755,0.789,0.745,0.807,0.645,0.747,(3.6178)+(-0.0026)Gly+(0.0155)Thr+(-0.0135)Tyr+(-0.0104)Val+(-0.2140)Met+(0.0278)Orn;0.697,0.746,0.667,0.614,0.722,0.790,0.604,0.682,(1.1697)+(0.0036)Gly+(-0.1234)Cit+(0.0451)Orn+(-0.0323)Lys+(0.0360)Ile+(0.0263)Phe;0.697,0.747,0.706,0.733,0.689,0.786,0.612,0.705,(-1.5029)+(0.0298)Ser+(-0.0112)Thr+(-0.0314)Arg+(-0.0194)Val+(0.0243)Orn+(0.0552)Phe;0.697,0.738,0.678,0.682,0.684,0.739,0.608,0.678,(1.6415)+(0.0008)Gln+(-0.1071)Cit+(-0.0006)Pro+(-0.0686)Tyr+(0.0369)Orn+(0.0308)Ile;0.697,0.738,0.767,0.796,0.729,0.822,0.732,0.770,(3.3031)+(0.0032)Gln+(-0.0100)Ala+(-0.0785)Cit+(0.0143)Pro+(-0.0341)Tyr+(-0.0047)Val;0.697,0.747,0.743,0.763,0.704,0.771,0.750,0.747,(2.5006)+(-0.0942)Asn+(0.0044)Gln+(-0.0494)Tyr+(0.0185)Orn+(-0.0152)Lys+(0.0366)Ile;0.697,0.744,0.783,0.818,0.752,0.833,0.721,0.781,(2.4306)+(0.0030)Gln+(-0.0036)Ala+(-0.0055)Tyr+(-0.0082)Val+(-0.1804)Met+(0.0294)Orn;0.697,0.744,0.784,0.822,0.773,0.818,0.681,0.773,(2.2895)+(-0.0020)Gly+(0.0048)Gln+(0.0214)Thr+(-0.0040)Ala+(-0.0194)Arg+(-0.2430)Met;0.6

97,0.744,0.784,0.799,0.776,0.817,0.736,0.782,(4.0340)+(-0.0440)Asn+(-0.0048)Ala+(-0.0099)Arg+(-0.1288)Met+(0.0311)Orn+(-0.0007)Leu;0.697,0.742,0.742,0.739,0.686,0.805,0.824,0.763,(1.1496)+(0.0011)Gly+(-0.0025)Thr+(-0.0135)Ala+(-0.0210)Arg+(0.0067)Pro+(0.0429)Ile;0.697,0.737,0.754,0.758,0.729,0.822,0.746,0.764,(1.0030)+(0.0331)Ser+(-0.0046)Gly+(0.0009)Gln+(-0.0079)Thr+(-0.0083)Ala+(-0.0768)Cit;0.697,0.752,0.664,0.652,0.641,0.788,0.656,0.684,(-1.2930)+(0.0290)Ser+(-0.0331)Val+(0.0222)Orn+(-0.0266)Lys+(0.0396)Leu+(0.0426)Phe;0.697,0.747,0.659,0.616,0.639,0.755,0.747,0.689,(-1.5207)+(0.0485)Ser+(-0.0074)Gly+(-0.0132)Thr+(-0.0022)Pro+(-0.0280)Lys+(0.0498)Ile;0.697,0.743,0.743,0.796,0.679,0.766,0.722,0.741,(2.1959)+(-0.0082)Ala+(-0.0185)Arg+(0.0129)Pro+(-0.0548)Tyr+(-0.0131)Val+(0.0827)Phe;0.697,0.742,0.742,0.765,0.764,0.772,0.615,0.729,(3.6593)+(-0.0513)Asn+(-0.0000)Gly+(0.0197)Thr+(-0.0152)Arg+(-0.2156)Met+(0.0193)Orn;0.697,0.744,0.789,0.805,0.755,0.831,0.786,0.794,(2.6185)+(-0.1025)Asn+(0.0042)Gln+(-0.0096)Ala+(-0.0164)Arg+(0.0083)Pro+(0.0201)Orn;0.696,0.745,0.689,0.634,0.739,0.788,0.659,0.705,(1.8006)+(-0.0000)Thr+(-0.1169)Cit+(0.0464)Orn+(-0.0312)Lys+(0.0336)Ile+(0.0225)Phe;0.696,0.742,0.792,0.829,0.757,0.822,0.745,0.788,(3.1040)+(-0.0956)Asn+(0.0053)Gln+(-0.0056)Ala+(-0.0163)Arg+(-0.0332)Tyr+(0.0287)Orn;0.696,0.751,0.695,0.695,0.694,0.772,0.644,0.701,(3.4562)+(0.0132)Thr+(-0.0808)Cit+(-0.0011)Pro+(-0.0538)Tyr+(-0.0211)Lys+(0.0541)Ile;0.696,0.750,0.695,0.708,0.709,0.788,0.561,0.692,(1.5863)+(0.0305)Ser+(-0.0002)Thr+(-0.0763)Cit+(-0.0341)Tyr+(-0.0165)Lys+(0.0081)Leu;0.696,0.743,0.668,0.680,0.666,0.717,0.603,0.667,(0.6578)+(0.0008)Gln+(-0.1078)Cit+(-0.0816)Tyr+(0.0347)Orn+(0.0229)Ile+(0.0399)Phe;0.696,0.742,0.609,0.559,0.608,0.733,0.651,0.638,(-2.1497)+(0.0440)Ser+(-0.0028)Gln+(-0.0145)Thr+(-0.0287)Lys+(0.0454)Ile+(0.0246)Phe;0.696,0.741,0.751,0.749,0.693,0.806,0.836,0.771,(0.8318)+(0.0014)Gln+(-0.0030

)Thr+(-0.0136)Ala+(-0.0221)Arg+(0.0064)Pro+(0.0419)Ile;0.696,0.753,0.720,0.767,0.710,0.824,0.538,0.710,(1.4273)+(0.0237)Ser+(-0.0044)Thr+(-0.0264)Arg+(-0.0363)Tyr+(-0.0114)Val+(0.0314)Orn;0.696,0.748,0.683,0.661,0.723,0.781,0.587,0.688,(-0.8586)+(0.0319)Ser+(-0.0203)Thr+(-0.0978)Cit+(-0.0139)Arg+(0.0008)Pro+(0.0377)Orn;0.696,0.750,0.725,0.747,0.685,0.839,0.665,0.734,(0.2426)+(0.0253)Ser+(-0.0110)Ala+(-0.0289)Arg+(0.0109)Pro+(0.0160)Orn+(-0.0084)Leu;0.696,0.743,0.789,0.814,0.774,0.831,0.723,0.786,(5.2246)+(-0.0743)Asn+(0.0032)Gly+(-0.0056)Ala+(-0.0744)Cit+(0.0059)Arg+(-0.0131)Tyr;0.696,0.742,0.795,0.832,0.781,0.807,0.718,0.784,(3.1640)+(-0.1146)Asn+(0.0013)Gly+(0.0076)Gln+(-0.0767)Cit+(-0.0319)Tyr+(-0.0021)Leu;0.696,0.748,0.710,0.735,0.688,0.771,0.643,0.709,(1.0716)+(0.0389)Ser+(-0.0101)Gly+(-0.0003)Gln+(-0.0268)Arg+(-0.0596)Tyr+(0.0223)Orn;0.696,0.742,0.709,0.737,0.616,0.764,0.788,0.726,(0.6766)+(-0.0005)Thr+(-0.0124)Ala+(0.0076)Pro+(-0.0608)Tyr+(0.0376)Ile+(0.0384)Phe;0.696,0.739,0.692,0.679,0.721,0.787,0.599,0.697,(-0.3172)+(0.0292)Ser+(-0.0227)Thr+(-0.1062)Cit+(0.0028)Pro+(0.0429)Orn+(-0.0132)Leu;0.696,0.739,0.729,0.750,0.739,0.784,0.612,0.721,(2.9543)+(-0.0021)Gly+(0.0015)Gln+(-0.1052)Cit+(-0.0561)Tyr+(0.0509)Orn+(-0.0104)Leu;0.696,0.737,0.761,0.786,0.725,0.815,0.732,0.764,(2.9770)+(0.0004)Gly+(0.0032)Gln+(-0.0109)Ala+(-0.0845)Cit+(0.0137)Pro+(-0.0363)Tyr;0.696,0.744,0.742,0.753,0.767,0.773,0.637,0.733,(3.7249)+(0.0034)Gly+(-0.0697)Cit+(0.0086)Pro+(-0.2128)Met+(-0.0024)Lys+(0.0032)Leu;0.696,0.743,0.775,0.786,0.742,0.805,0.795,0.782,(2.0029)+(-0.1242)Asn+(0.0018)Gly+(0.0057)Thr+(-0.0093)Ala+(0.0150)Orn+(0.0474)Phe;0.696,0.742,0.791,0.797,0.758,0.829,0.816,0.800,(5.9432)+(-0.0921)Asn+(-0.0049)Ala+(-0.0489)Cit+(-0.0309)Val+(0.0001)Lys+(0.0512)Leu;0.696,0.744,0.752,0.788,0.718,0.785,0.703,0.748,(1.7929)+(0.0022)Gly+(-0.0084)Ala+(-0.0776)Cit+(-0.0040)Arg+(-0.0474)Tyr+(0.0771)Phe;0.696,0.745,0.773,0.8

01,0.759,0.828,0.688,0.769,(4.0242)+(-0.0034)Ala+(-0.0139)Arg+(-0.006
8)Tyr+(-0.0088)Val+(-0.1378)Met+(0.0384)Orn;0.696,0.740,0.782,0.812,0
.763,0.824,0.712,0.778,(3.7610)+(-0.1275)Asn+(0.0049)Gln+(-0.0182)Arg
+(0.0062)Pro+(-0.0189)Val+(0.0335)Orn;0.696,0.747,0.789,0.812,0.772,0
.836,0.732,0.788,(5.1070)+(-0.0915)Asn+(-0.0041)Ala+(-0.0130)Arg+(-0.
0136)Val+(0.0411)Orn+(0.0007)Lys;0.696,0.746,0.811,0.837,0.801,0.835,
0.745,0.804,(2.7535)+(0.0063)Gln+(-0.0044)Ala+(-0.0739)Cit+(-0.0011)V
al+(-0.1599)Met+(-0.0019)Lys;0.696,0.745,0.782,0.821,0.758,0.818,0.70
5,0.776,(2.1415)+(-0.0023)Gly+(0.0038)Gln+(0.0176)Thr+(-0.0042)Ala+(-
0.0096)Tyr+(-0.2366)Met;0.696,0.742,0.749,0.767,0.735,0.841,0.666,0.7
52,(1.5637)+(0.0278)Ser+(-0.0038)Thr+(-0.0074)Ala+(-0.0707)Cit+(-0.00
91)Arg+(-0.0026)Val;0.696,0.746,0.689,0.705,0.673,0.816,0.594,0.697,(
0.2169)+(0.0229)Ser+(-0.0329)Arg+(0.0040)Pro+(-0.0345)Val+(0.0228)Orn
+(0.0337)Leu;0.696,0.749,0.716,0.728,0.702,0.788,0.663,0.720,(0.4825)
+(0.0404)Ser+(-0.1459)Asn+(0.0024)Gln+(-0.0035)Thr+(0.0044)Pro+(-0.01
04)Lys;0.696,0.747,0.709,0.719,0.700,0.787,0.646,0.713,(1.2461)+(0.04
13)Ser+(-0.1362)Asn+(-0.0029)Thr+(0.0053)Pro+(-0.0089)Lys+(-0.0035)Le
u;0.696,0.744,0.788,0.821,0.768,0.826,0.715,0.782,(2.2568)+(-0.0021)G
ly+(0.0041)Gln+(0.0182)Thr+(-0.0041)Ala+(-0.2346)Met+(-0.0057)Lys;0.6
96,0.743,0.783,0.811,0.763,0.822,0.726,0.780,(2.4573)+(-0.0021)Gly+(0
.0037)Gln+(-0.0095)Val+(-0.2009)Met+(0.0300)Orn+(-0.0040)Lys;0.696,0.
742,0.668,0.677,0.669,0.719,0.604,0.667,(0.9694)+(-0.1068)Cit+(-0.000
5)Pro+(-0.0800)Tyr+(0.0360)Orn+(0.0234)Ile+(0.0398)Phe;0.696,0.752,0.
762,0.777,0.729,0.838,0.739,0.771,(0.7020)+(0.0338)Ser+(-0.0073)Gly+(
-0.0082)Ala+(-0.0274)Arg+(0.0214)Orn+(-0.0067)Leu;0.696,0.746,0.704,0
.759,0.646,0.719,0.666,0.698,(0.7459)+(-0.0002)Thr+(-0.0700)Tyr+(-0.0
280)Val+(0.0264)Orn+(0.0208)Leu+(0.0678)Phe;0.696,0.742,0.744,0.742,0
.723,0.815,0.743,0.756,(1.0092)+(0.0342)Ser+(-0.0042)Gly+(-0.0078)Thr

+(-0.0088)Ala+(-0.0779)Cit+(0.0046)Leu;0.696,0.754,0.737,0.758,0.719,0.804,0.672,0.738,(0.7316)+(0.0385)Ser+(-0.1469)Asn+(0.0028)Gln+(-0.0016)Thr+(-0.0090)Lys+(-0.0011)Leu;0.696,0.748,0.761,0.767,0.787,0.763,0.688,0.751,(3.4858)+(-0.1171)Asn+(0.0153)Thr+(-0.0750)Cit+(-0.0108)Lys+(-0.0135)Leu+(0.0672)Phe;0.696,0.742,0.752,0.794,0.725,0.769,0.683,0.743,(5.6435)+(-0.1141)Asn+(-0.0009)Gly+(0.0153)Thr+(0.0095)Pro+(-0.0375)Tyr+(-0.0141)Val;0.696,0.743,0.716,0.726,0.692,0.748,0.718,0.721,(3.5647)+(-0.0739)Asn+(0.0004)Gly+(-0.0487)Tyr+(0.0233)Orn+(-0.0144)Lys+(0.0379)Ile;0.696,0.742

,0.707,0.762,0.653,0.693,0.682,0.697,(1.4473)+(-0.0041)Gly+(0.0059)Pro+(-0.0775)Tyr+(-0.0191)Val+(0.0275)Orn+(0.0723)Phe;0.696,0.752,0.736,0.769,0.742,0.753,0.626,0.723,(5.2481)+(-0.0986)Asn+(0.0169)Thr+(-0.0651)Cit+(-0.0051)Arg+(0.0061)Pro+(-0.0481)Tyr;0.696,0.746,0.692,0.640,0.736,0.791,0.664,0.708,(1.0883)+(0.0021)Gln+(-0.1197)Cit+(0.0444)Orn+(-0.0328)Lys+(0.0342)Ile+(0.0221)Phe;0.696,0.740,0.682,0.688,0.686,0.740,0.620,0.683,(1.6361)+(0.0010)Gln+(-0.0023)Thr+(-0.1068)Cit+(-0.0677)Tyr+(0.0375)Orn+(0.0301)Ile;0.696,0.743,0.721,0.771,0.663,0.751,0.689,0.718,(1.4532)+(0.0103)Thr+(-0.0106)Ala+(-0.0247)Arg+(0.0110)Pro+(-0.0653)Tyr+(0.0671)Phe;0.696,0.748,0.763,0.803,0.765,0.835,0.602,0.751,(2.6231)+(0.0036)Gln+(0.0171)Thr+(-0.0223)Arg+(-0.0106)Val+(-0.2354)Met+(0.0254)Orn;0.696,0.746,0.765,0.786,0.770,0.779,0.690,0.756,(2.2083)+(0.0058)Gln+(-0.0742)Cit+(0.0085)Pro+(-0.0135)Tyr+(-0.2261)Met+(0.0011)Leu;0.696,0.742,0.724,0.755,0.634,0.769,0.799,0.739,(0.7961)+(-0.0015)Gly+(0.0023)Thr+(-0.0109)Ala+(-0.0609)Tyr+(0.0426)Ile+(0.0402)Phe;0.696,0.741,0.712,0.738,0.716,0.757,0.602,0.703,(2.9964)+(0.0145)Thr+(0.0074)Pro+(-0.0213)Tyr+(-0.2352)Met+(0.0189)Orn+(-0.0078)Lys;0.696,0.748,0.748,0.782,0.762,0.786,0.605,0.734,(5.4896)+(-0.0955)Asn+(0.0016)Gly+(0.0184)Thr+(-0.0697)Cit+(-0.0350)Tyr+(-0.0065)Lys;0

.696,0.741,0.792,0.813,0.764,0.833,0.762,0.793,(2.1928)+(-0.0016)Gly+(0.0039)Gln+(-0.0047)Ala+(-0.1839)Met+(0.0263)Orn+(-0.0073)Lys;0.696,0.738,0.777,0.810,0.728,0.819,0.759,0.779,(5.4402)+(-0.0817)Asn+(0.0007)Gly+(-0.0066)Ala+(0.0142)Pro+(-0.0234)Tyr+(-0.0101)Val;0.696,0.754,0.729,0.760,0.708,0.792,0.646,0.726,(1.6110)+(0.0377)Ser+(-0.0104)Gly+(-0.0274)Arg+(-0.0543)Tyr+(0.0263)Orn+(-0.0088)Leu;0.696,0.748,0.718,0.744,0.727,0.810,0.562,0.711,(1.5299)+(0.0275)Ser+(0.0017)Gln+(-0.0714)Cit+(-0.0070)Arg+(-0.0320)Tyr+(-0.0130)Lys;0.696,0.744,0.723,0.764,0.706,0.700,0.666,0.709,(2.9810)+(-0.1134)Asn+(-0.0001)Gly+(0.0208)Thr+(-0.0714)Tyr+(-0.0131)Lys+(0.0807)Phe;0.696,0.742,0.785,0.796,0.777,0.826,0.742,0.785,(5.1269)+(-0.0950)Asn+(0.0151)Thr+(-0.0078)Ala+(-0.0760)Cit+(0.0002)Arg+(0.0030)Leu;0.696,0.738,0.766,0.793,0.732,0.815,0.732,0.768,(3.0219)+(0.0037)Gln+(-0.0106)Ala+(-0.0793)Cit+(-0.0058)Arg+(0.0136)Pro+(-0.0361)Tyr;0.696,0.748,0.786,0.812,0.779,0.841,0.695,0.782,(5.5971)+(-0.1023)Asn+(0.0022)Gly+(0.0159)Thr+(-0.0056)Ala+(-0.0695)Cit+(-0.0061)Val;0.696,0.746,0.783,0.797,0.753,0.815,0.786,0.788,(2.5947)+(-0.1114)Asn+(0.0015)Gly+(0.0124)Thr+(-0.0084)Ala+(-0.0108)Lys+(0.0588)Phe;0.696,0.741,0.723,0.752,0.724,0.750,0.625,0.713,(3.3774)+(-0.0013)Gly+(0.0190)Thr+(0.0082)Pro+(-0.0202)Tyr+(-0.2452)Met+(-0.0052)Lys;0.696,0.745,0.766,0.803,0.735,0.782,0.719,0.760,(2.2598)+(-0.0074)Ala+(-0.0708)Cit+(-0.0041)Arg+(-0.0491)Tyr+(-0.0073)Leu+(0.0838)Phe;0.696,0.738,0.741,0.764,0.763,0.777,0.612,0.729,(3.8514)+(-0.0491)Asn+(0.0198)Thr+(-0.0139)Arg+(-0.2032)Met+(0.0217)Orn+(-0.0046)Lys;0.696,0.748,0.718,0.724,0.705,0.785,0.685,0.725,(2.0420)+(0.0011)Gly+(0.0041)Gln+(-0.0846)Cit+(-0.0487)Tyr+(-0.0205)Lys+(0.0526)Ile;0.696,0.744,0.819,0.850,0.788,0.811,0.808,0.814,(1.3822)+(-0.1170)Asn+(0.0057)Gln+(-0.0069)Ala+(-0.0156)Arg+(-0.0132)Leu+(0.0645)Phe;0.696,0.744,0.769,0.808,0.712,0.809,0.753,0.770,(3.4016)+(-0.1146)Asn+(0.

0042)Gln+(0.0104)Thr+(-0.0084)Ala+(0.0110)Pro+(-0.0404)Tyr;0.696,0.74
0,0.779,0.811,0.761,0.786,0.726,0.771,(2.3445)+(-0.0739)Asn+(-0.0009)
Gly+(0.0054)Gln+(-0.0204)Tyr+(-0.1555)Met+(0.0214)Orn;0.696,0.740,0.7
58,0.774,0.769,0.782,0.676,0.750,(3.7211)+(-0.0428)Asn+(0.0007)Gly+(-
0.0091)Arg+(-0.1588)Met+(0.0290)Orn+(-0.0041)Lys;0.696,0.739,0.746,0.
793,0.695,0.774,0.705,0.742,(0.7495)+(0.0019)Gln+(-0.0083)Ala+(-0.024
3)Arg+(-0.0575)Tyr+(0.0223)Orn+(0.0624)Phe;0.696,0.746,0.757,0.788,0.
766,0.821,0.611,0.746,(4.0444)+(-0.0020)Gly+(0.0191)Thr+(-0.0193)Arg+
(-0.0112)Val+(-0.2179)Met+(0.0303)Orn;0.696,0.743,0.818,0.851,0.788,0
.826,0.786,0.813,(2.5963)+(-0.0693)Asn+(-0.0004)Gly+(0.0063)Gln+(-0.0
036)Ala+(-0.0089)Tyr+(-0.1325)Met;0.696,0.743,0.663,0.672,0.665,0.718
,0.593,0.662,(0.8454)+(0.0006)Gly+(-0.1076)Cit+(-0.0804)Tyr+(0.0355)O
rn+(0.0233)Ile+(0.0401)Phe;0.696,0.740,0.661,0.642,0.689,0.762,0.582,
0.669,(-1.0242)+(0.0361)Ser+(-0.0007)Gln+(-0.0893)Cit+(0.0018)Pro+(-0
.0272)Lys+(0.0561)Phe;0.696,0.742,0.791,0.809,0.779,0.840,0.734,0.791
,(5.0820)+(-0.0750)Asn+(0.0036)Gly+(-0.0061)Ala+(-0.0780)Cit+(0.0072)
Arg+(-0.0031)Lys;0.696,0.748,0.784,0.808,0.757,0.835,0.739,0.785,(4.9
050)+(-0.1179)Asn+(-0.0003)Gly+(0.0091)Thr+(-0.0045)Ala+(-0.0142)Val+
(0.0341)Orn;0.696,0.747,0.669,0.643,0.705,0.759,0.598,0.676,(-2.0613)
+(0.0345)Ser+(-0.0217)Thr+(-0.0984)Cit+(-0.0153)Arg+(0.0342)Orn+(0.02
61)Phe;0.696,0.744,0.810,0.837,0.800,0.833,0.742,0.803,(2.7133)+(0.00
63)Gln+(-0.0043)Ala+(-0.0719)Cit+(-0.0022)Arg+(-0.0017)Val+(-0.1636)M
et;0.696,0.743,0.780,0.793,0.758,0.836,0.749,0.784,(0.9538)+(0.0026)G
ly+(0.0035)Gln+(-0.0098)Ala+(-0.0928)Cit+(-0.0149)Lys+(0.0615)Phe;0.6
96,0.739,0.674,0.676,0.682,0.737,0.605,0.675,(1.9085)+(0.0002)Gly+(-0
.1064)Cit+(-0.0005)Pro+(-0.0677)Tyr+(0.0379)Orn+(0.0309)Ile;0.696,0.7
50,0.781,0.791,0.788,0.824,0.711,0.778,(4.1900)+(0.0035)Gly+(-0.0057)
Ala+(-0.0736)Cit+(-0.1441)Met+(-0.0029)Lys+(0.0131)Leu;0.696,0.755,0.

741,0.757,0.707,0.845,0.697,0.751,(0.1212)+(0.0303)Ser+(-0.0010)Gln+(-0.0107)Thr+(-0.0083)Ala+(-0.0225)Arg+(0.0239)Orn;0.696,0.744,0.788,0.813,0.771,0.832,0.728,0.786,(1.9335)+(0.0042)Gln+(-0.0049)Ala+(-0.0164)Arg+(-0.1927)Met+(0.0247)Orn+(0.0019)Leu;0.696,0.743,0.760,0.783,0.748,0.815,0.684,0.758,(3.3177)+(-0.0014)Gly+(0.0154)Thr+(-0.0047)Ala+(-0.2073)Met+(0.0236)Orn+(-0.0072)Lys;0.696,0.741,0.786,0.832,0.743,0.790,0.751,0.779,(3.9783)+(-0.1185)Asn+(-0.0012)Gly+(0.0058)Gln+(0.0092)Pro+(-0.0337)Tyr+(-0.0136)Val;0.696,0.740,0.706,0.728,0.722,0.773,0.566,0.697,(2.7987)+(0.0008)Gln+(-0.1057)Cit+(0.0048)Pro+(-0.0592)Tyr+(0.0488)Orn+(-0.0120)Leu;0.696,0.749,0.732,0.753,0.676,0.836,0.716,0.745,(0.1256)+(0.0319)Ser+(-0.0110)Thr+(-0.0105)Ala+(-0.0215)Arg+(0.0129)Pro+(-0.0045)Leu;0.696,0.747,0.749,0.783,0.761,0.820,0.582,0.736,(3.7830)+(0.0181)Thr+(-0.0193)Arg+(-0.0108)Val+(-0.2176)Met+(0.0295)Orn+(-0.0004)Lys;0.696,0.746,0.697,0.678,0.611,0.813,0.845,0.737,(-2.3132)+(0.0328)Ser+(-0.0065)Gly+(-0.0145)Ala+(-0.0055)Orn+(0.0457)Ile+(0.0101)Phe;0.696,0.744,0.624,0.588,0.643,0.756,0.585,0.643,(-0.8985)+(0.0379)Ser+(-0.0023)Gln+(-0.0219)Arg+(0.0116)Orn+(-0.0273)Lys+(0.0445)Ile;0.696,0.744,0.760,0.786,0.721,0.777,0.757,0.760,(2.3443)+(-0.0891)Asn+(0.0059)Gln+(-0.0126)Arg+(-0.0458)Tyr+(-0.0110)Lys+(0.0402)Ile;0.696,0.745,0.752,0.767,0.745,0.810,0.684,0.751,(2.9900)+(0.0162)Thr+(-0.0052)Ala+(-0.2200)Met+(0.0207)Orn+(-0.0092)Lys+(0.0084)Leu;0.696,0.739,0.708,0.727,0.725,0.774,0.577,0.701,(3.1967)+(-0.0024)Thr+(-0.1043)Cit+(0.0051)Pro+(-0.0568)Tyr+(0.0511)Orn+(-0.0120)Leu;0.696,0.748,0.719,0.735,0.706,0.794,0.651,0.721,(0.7803)+(0.0385)Ser+(-0.1502)Asn+(0.0024)Gln+(0.0046)Pro+(-0.0098)Lys+(-0.0040)Leu;0.696,0.743,0.780,0.814,0.766,0.779,0.717,0.769,(2.4223)+(-0.0606)Asn+(0.0065)Gln+(-0.0120)Arg+(0.0077)Pro+(-0.0189)Tyr+(-0.1708)Met;0.696,0.738,0.700,0.715,0.722,0.759,0.574,0.692,(3.0395)+(-0.0005)Gly+(-0.0969)Cit+(-0.0

101)Arg+(0.0034)Pro+(-0.0605)Tyr+(0.0467)Orn;0.696,0.747,0.708,0.741,0.720,0.761,0.559,0.695,(3.1739)+(0.0184)Thr+(-0.0194)Arg+(0.0076)Pro+(-0.0233)Tyr+(-0.2440)Met+(0.0177)Orn;0.696,0.738,0.712,0.730,0.694,0.754,0.672,0.713,(-0.5346)+(0.0386)Ser+(-0.0071)Gly+(-0.0012)Gln+(-0.0313)Arg+(-0.0183)Val+(0.0561)Phe;0.695,0.749,0.714,0.754,0.695,0.693,0.660,0.701,(2.9502)+(-0.1137)Asn+(0.0197)Thr+(0.0038)Pro+(-0.0742)Tyr+(-0.0134)Lys+(0.0782)Phe;0.695,0.748,0.758,0.790,0.713,0.781,0.753,0.759,(2.2759)+(-0.0070)Ala+(-0.0655)Cit+(-0.0474)Tyr+(-0.0185)Val+(0.0217)Leu+(0.0800)Phe;0.695,0.747,0.819,0.859,0.792,0.819,0.768,0.809,(3.0476)+(-0.0857)Asn+(0.0066)Gln+(-0.0065)Tyr+(-0.0093)Val+(-0.1308)Met+(0.0029)Lys;0.695,0.746,0.734,0.766,0.676,0.850,0.684,0.744,(1.3064)+(0.0264)Ser+(-0.0058)Ala+(-0.0201)Arg+(-0.0234)Tyr+(-0.0261)Val+(0.0409)Leu;0.695,0.743,0.642,0.616,0.650,0.764,0.602,0.658,(-1.3346)+(0.0347)Ser+(-0.0230)Arg+(-0.0034)Pro+(0.0109)Orn+(-0.0279)Lys+(0.0478)Ile;0.695,0.741,0.754,0.787,0.744,0.788,0.662,0.745,(5.7006)+(-0.0874)Asn+(0.0028)Gly+(-0.0577)Cit+(0.0099)Pro+(-0.0266)Tyr+(-0.0102)Val;0.695,0.752,0.691,0.687,0.652,0.817,0.690,0.712,(0.7870)+(0.0300)Ser+(-0.0024)Gln+(-0.0105)Ala+(0.0106)Pro+(0.0188)Orn+(-0.0187)Lys;0.695,0.743,0.793,0.813,0.787,0.839,0.719,0.790,(5.9475)+(-0.0953)Asn+(0.0177)Thr+(-0.0056)Ala+(-0.0669)Cit+(-0.0057)Val+(-0.0030)Lys;0.695,0.746,0.656,0.708,0.615,0.696,0.575,0.648,(-1.3928)+(0.0319)Ser+(-0.0025)Gln+(-0.0093)Thr+(-0.0690)Tyr+(-0.0155)Leu+(0.0815)Phe;0.695,0.740,0.747,0.784,0.760,0.764,0.608,0.729,(4.4329)+(-0.0534)Asn+(-0.0004)Gly+(0.0251)Thr+(-0.0131)Arg+(-0.0171)Tyr+(-0.1857)Met;0.695,0.738,0.783,0.818,0.725,0.812,0.793,0.787,(3.2837)+(-0.0983)Asn+(-0.0007)Gly+(0.0048)Gln+(-0.0082)Ala+(0.0114)Pro+(-0.0361)Tyr;0.695,0.742,0.746,0.778,0.751,0.773,0.632,0.733,(1.7981)+(-0.0015)Gly+(0.0046)Gln+(0.0193)Thr+(-0.0210)Arg+(0.0067)Pro+(-0.2961)Met;0.695,0.739,0.749,0.772,0

.725,0.811,0.693,0.750,(4.1836)+(0.0090)Thr+(-0.0107)Ala+(-0.0763)Cit+(-0.0062)Arg+(0.0139)Pro+(-0.0383)Tyr;0.695,0.749,0.728,0.714,0.759,0.806,0.640,0.730,(1.9868)+(-0.1040)Cit+(-0.0050)Arg+(-0.0145)Val+(0.0579)Orn+(-0.0186)Lys+(0.0556)Phe;0.695,0.743,0.718,0.756,0.688,0.698,0.694,0.709,(2.1649)+(-0.0933)Asn+(0.0023)Gly+(-0.0129)Arg+(-0.0633)Tyr+(0.0264)Ile+(0.0548)Phe;0.695,0.746,0.716,0.739,0.725,0.808,0.569,0.710,(1.5101)+(0.0275)Ser+(0.0015)Gln+(-0.0014)Thr+(-0.0763)Cit+(-0.0316)Tyr+(-0.0141)Lys;0.695,0.743,0.716,0.735,0.675,0.834,0.666,0.728,(0.6351)+(0.0289)Ser+(-0.0014)Gln+(-0.0108)Ala+(-0.0252)Arg+(0.0122)Pro+(-0.0053)Leu;0.695,0.743,0.575,0.579,0.546,0.683,0.550,0.589,(-0.6655)+(0.0300)Ser+(-0.0045)Gln+(0.0009)Pro+(-0.0709)Tyr+(0.0041)Orn+(0.0391)Ile;0.695,0.737,0.671,0.660,0.694,0.766,0.584,0.676,(-0.9641)+(0.0351)Ser+(-0.0005)Gln+(-0.0881)Cit+(-0.0254)Lys+(-0.0046)Leu+(0.0616)Phe;0.695,0.742,0.639,0.614,0.644,0.755,0.611,0.656,(-2.1437)+(0.0374)Ser+(-0.0236)Arg+(-0.0032)Pro+(-0.0289)Lys+(0.0449)Ile+(0.0254)Phe;0.695,0.744,0.762,0.781,0.738,0.797,0.735,0.763,(5.7047)+(-0.1069)Asn+(0.0034)Gly+(-0.0501)Cit+(-0.0143)Tyr+(-0.0326)Val+(0.0502)Leu;0.695,0.743,0.647,0.620,0.645,0

.763,0.641,0.667,(-1.5588)+(0.0393)Ser+(-0.0099)Thr+(-0.0180)Arg+(-0.0020)Pro+(-0.0244)Lys+(0.0508)Ile;0.695,0.750,0.700,0.718,0.710,0.793,0.565,0.696,(1.3199)+(0.0288)Ser+(0.0012)Gln+(-0.0786)Cit+(-0.0351)Tyr+(-0.0172)Lys+(0.0079)Leu;0.695,0.748,0.709,0.733,0.722,0.803,0.550,0.702,(1.9340)+(0.0291)Ser+(0.0007)Thr+(-0.0691)Cit+(-0.0061)Arg+(-0.0311)Tyr+(-0.0125)Lys;0.695,0.748,0.822,0.859,0.797,0.823,0.774,0.813,(2.9707)+(-0.0842)Asn+(-0.0003)Gly+(0.0067)Gln+(-0.0095)Val+(-0.1419)Met+(0.0028)Lys;0.695,0.744,0.809,0.835,0.799,0.830,0.746,0.803,(2.6796)+(0.0062)Gln+(-0.0044)Ala+(-0.0736)Cit+(0.0014)Tyr+(-0.0016)Val+(-0.1675)Met;0.695,0.737,0.747,0.763,0.725,0.834,0.688,0.752,(1.1548)

+(0.0268)Ser+(0.0006)Gln+(-0.0068)Thr+(-0.0078)Ala+(-0.0793)Cit+(-0.0021)Val;0.695,0.747,0.778,0.812,0.769,0.829,0.672,0.770,(3.8220)+(-0.0013)Gly+(0.0206)Thr+(-0.0032)Ala+(-0.0058)Val+(-0.2163)Met+(-0.0012)Lys;0.695,0.745,0.771,0.799,0.749,0.821,0.708,0.769,(3.6115)+(-0.0035)Ala+(-0.0062)Tyr+(-0.0078)Val+(-0.1520)Met+(0.0348)Orn+(-0.0025)Lys;0.695,0.747,0.790,0.840,0.758,0.810,0.712,0.780,(3.9867)+(-0.1364)Asn+(0.0054)Gln+(0.0144)Thr+(-0.0301)Tyr+(-0.0114)Val+(-0.0020)Lys;0.695,0.742,0.831,0.872,0.803,0.845,0.772,0.823,(3.1317)+(-0.0735)Asn+(0.0072)Gln+(-0.0022)Ala+(-0.0096)Arg+(-0.0073)Val+(-0.1149)Met;0.695,0.740,0.675,0.677,0.682,0.735,0.610,0.676,(1.9224)+(0.0004)Gly+(-0.0015)Thr+(-0.1063)Cit+(-0.0670)Tyr+(0.0384)Orn+(0.0305)Ile;0.695,0.743,0.701,0.759,0.655,0.705,0.637,0.689,(1.0000)+(-0.0011)Gln+(0.0007)Thr+(-0.0710)Tyr+(-0.0183)Val+(0.0277)Orn+(0.0781)Phe;0.695,0.740,0.788,0.817,0.780,0.788,0.727,0.778,(2.2193)+(-0.0587)Asn+(0.0065)Gln+(-0.0122)Arg+(0.0073)Pro+(-0.1950)Met+(-0.0036)Leu;0.695,0.751,0.694,0.694,0.692,0.770,0.642,0.700,(3.4430)+(0.0130)Thr+(-0.0807)Cit+(0.0000)Arg+(-0.0547)Tyr+(-0.0210)Lys+(0.0529)Ile;0.695,0.744,0.815,0.853,0.793,0.831,0.746,0.806,(3.8023)+(-0.1123)Asn+(0.0082)Gln+(-0.0651)Cit+(-0.0034)Arg+(-0.0234)Tyr+(-0.0078)Val;0.695,0.742,0.760,0.785,0.761,0.817,0.654,0.754,(3.4150)+(-0.0009)Gly+(0.0182)Thr+(-0.0048)Ala+(-0.0176)Arg+(-0.2170)Met+(0.0229)Orn;0.695,0.740,0.731,0.757,0.709,0.783,0.668,0.729,(1.8728)+(0.0332)Ser+(-0.0082)Gly+(0.0008)Gln+(-0.0626)Cit+(-0.0450)Tyr+(-0.0062)Val;0.695,0.746,0.719,0.759,0.714,0.741,0.605,0.705,(2.2398)+(0.0163)Thr+(-0.0708)Cit+(-0.0691)Tyr+(-0.0100)Val+(-0.0150)Lys+(0.0950)Phe;0.695,0.742,0.719,0.731,0.643,0.794,0.790,0.740,(-1.0635)+(0.0313)Ser+(-0.0072)Gly+(-0.0114)Ala+(0.0109)Pro+(-0.0150)Val+(0.0471)Phe;0.695,0.746,0.751,0.753,0.700,0.819,0.802,0.769,(1.5798)+(-0.0082)Ala+(-0.0316)Val+(0.0319)Orn+(-0.0161)Lys+(0.0405)Leu+(0.04

43)Phe;0.695,0.740,0.741,0.772,0.741,0.759,0.643,0.729,(3.8398)+(-0.0649)Asn+(-0.0009)Gly+(0.0181)Thr+(-0.0230)Tyr+(-0.1811)Met+(0.0200)Orn;0.695,0.737,0.674,0.667,0.684,0.768,0.603,0.681,(-0.9155)+(0.0331)Ser+(-0.0798)Cit+(0.0037)Pro+(-0.0099)Val+(-0.0230)Lys+(0.0655)Phe;0.695,0.741,0.753,0.754,0.700,0.813,0.819,0.771,(0.2971)+(0.0011)Gln+(-0.0129)Ala+(-0.0252)Arg+(0.0082)Orn+(0.0402)Ile+(0.0153)Phe;0.695,0.737,0.767,0.778,0.740,0.822,0.758,0.774,(3.5789)+(-0.0873)Asn+(0.0015)Gly+(-0.0098)Ala+(-0.0137)Arg+(0.0093)Pro+(0.0232)Orn;0.695,0.744,0.779,0.813,0.763,0.791,0.715,0.771,(2.4469)+(-0.0775)Asn+(0.0053)Gln+(-0.0192)Tyr+(-0.1463)Met+(0.0228)Orn+(-0.0037)Leu;0.695,0.742,0.820,0.850,0.796,0.831,0.785,0.815,(2.3423)+(-0.0602)Asn+(0.0067)Gln+(-0.0040)Ala+(-0.0100)Arg+(-0.1492)Met+(0.0037)Leu;0.695,0.741,0.751,0.784,0.759,0.764,0.642,0.737,(4.2760)+(-0.0590)Asn+(-0.0005)Gly+(0.0227)Thr+(-0.0165)Tyr+(-0.1835)Met+(-0.0029)Lys;0.695,0.736,0.752,0.759,0.729,0.824,0.732,0.761,(1.5231)+(0.0334)Ser+(-0.0048)Gly+(-0.0062)Thr+(-0.0075)Ala+(-0.0715)Cit+(-0.0029)Val;0.695,0.734,0.677,0.671,0.689,0.770,0.602,0.683,(-0.6788)+(0.0341)Ser+(-0.0009)Gln+(-0.0788)Cit+(-0.0090)Val+(-0.0220)Lys+(0.0694)Phe;0.695,0.741,0.730,0.751,0.711,0.782,0.673,0.729,(1.9934)+(0.0355)Ser+(-0.0078)Gly+(-0.0036)Thr+(-0.0604)Cit+(-0.0412)Tyr+(-0.0057)Val;0.695,0.739,0.752,0.778,0.722,0.818,0.699,0.754,(4.3318)+(0.0073)Thr+(-0.0100)Ala+(-0.0756)Cit+(0.0146)Pro+(-0.0354)Tyr+(-0.0049)Val;0.695,0.739,0.808,0.837,0.768,0.805,0.815,0.806,(1.2348)+(-0.1317)Asn+(0.0012)Gly+(0.0045)Gln+(-0.0073)Ala+(-0.0131)Leu+(0.0633)Phe;0.695,0.741,0.720,0.741,0.739,0.775,0.588,0.711,(3.1064)+(0.0176)Thr+(-0.0168)Arg+(0.0064)Pro+(-0.2593)Met+(0.0186)Orn+(-0.0056)Lys;0.695,0.750,0.776,0.787,0.779,0.816,0.715,0.774,(3.8558)+(0.0034)Gly+(-0.0060)Ala+(-0.0795)Cit+(0.0062)Arg+(-0.1607)Met+(0.0123)Leu;0.695,0.757,0.733,0.752,0.709,0.838,0.659,0.739,(0.5910)+(0.0282)

Ser+(-0.0076)Ala+(-0.0199)Arg+(0.0246)Orn+(-0.0153)Lys+(0.0027)Leu;0.695,0.742,0.753,0.764,0.695,0.844,0.780,0.771,(1.2662)+(0.0356)Ser+(-0.0072)Gly+(-0.0066)Ala+(-0.0216)Arg+(-0.0286)Val+(0.0404)Leu;0.695,0.743,0.720,0.732,0.702,0.749,0.703,0.721,(3.7624)+(-0.0667)Asn+(-0.0097)Arg+(-0.0482)Tyr+(0.0256)Orn+(-0.0126)Lys+(0.0368)Ile;0.695,0.741,0.822,0.855,0.797,0.838,0.778,0.817,(2.4957)+(-0.0622)Asn+(0.0068)Gln+(-0.0036)Ala+(-0.0100)Arg+(-0.1405)Met+(-0.0001)Lys;0.695,0.741,0.750,0.771,0.762,0.772,0.654,0.740,(3.4353)+(-0.0619)Asn+(-0.0002)Gly+(0.0166)Thr+(-0.2137)Met+(0.0179)Orn+(-0.0022)Leu;0.695,0.748,0.780,0.791,0.787,0.819,0.711,0.777,(3.9235)+(0.0036)Gly+(-0.0059)Ala+(-0.0748)Cit+(0.0056)Tyr+(-0.1611)Met+(0.0118)Leu;0.695,0.746,0.777,0.794,0.741,0.794,0.797,0.781,(2.6895)+(-0.1221)Asn+(0.0084)Thr+(-0.0101)Ala+(0.0097)Pro+(-0.0164)Leu+(0.0629)Phe;0.695,0.745,0.810,0.834,0.801,0.832,0.748,0.804,(2.6991)+(0.0064)Gln+(-0.0047)Ala+(-0.0752)Cit+(0.0010)Tyr+(-0.1615)Met+(-0.0025)Lys;0.695,0.744,0.725,0.748,0.718,0.778,0.645,0.722,(1.8884)+(0.0375)Ser+(-0.0080)Gly+(-0.0548)Cit+(-0.0146)Arg+(-0.0466)Tyr+(-0.0019)Leu;0.695,0.743,0.783,0.798,0.768,0.831,0.741,0.784,(4.6286)+(-0.0813)Asn+(0.0040)Gly+(-0.0072)Ala+(-0.0810)Cit+(0.0059)Arg+(0.0056)Leu;0.695,0.740,0.722,0.744,0.742,0.763,0.594,0.711,(2.8861)+(-0.0005)Gly+(0.0177)Thr+(-0.0186)Arg+(0.0064)Pro+(-0.2767)Met+(0.0157)Orn;0.695,0.738,0.747,0.768,0.721,0.810,0.697,0.749,(3.9296)+(0.0008)Gly+(0.0065)Thr+(-0.0110)Ala+(-0.0824)Cit+(0.0140)Pro+(-0.0370)Tyr;0.695,0.737,0.708,0.726,0.688,0.753,0.672,0.710,(-0.7873)+(0.0374)Ser+(-0.0075)Gly+(-0.0337)Arg+(0.0049)Pro+(-0.0198)Val+(0.0500)Phe;0.695,0.751,0.752,0.760,0.707,0.846,0.760,0.768,(1.2586)+(0.0350)Ser+(-0.0085)Gly+(-0.0063)Ala+(-0.0072)Val+(0.0275)Orn+(-0.0165)Lys;0.695,0.745,0.797,0.825,0.784,0.840,0.717,0.792,(5.6054)+(-0.0714)Asn+(0.0030)Gly+(-0.0045)Ala+(-0.0646)Cit+(-0.0097)Tyr+(-0.0039)Val;0.695

,0.739,0.726,0.738,0.710,0.807,0.667,0.730,(0.9954)+(0.0339)Ser+(-0.0088)Gly+(-0.0326)Arg+(0.0052)Pro+(-0.0180)Val+(0.0233)Orn;0.695,0.745,0.627,0.679,0.600,0.670,0.517,0.617,(-1.0103)+(0.0268)Ser+(-0.0038)Gln+(-0.0782)Tyr+(0.0156)Orn+(-0.0192)Leu+(0.0814)Phe;0.695,0.745,0.767,0.790,0.772,0.784,0.687,0.758,(2.2804)+(0.0060)Gln+(-0.0710)Cit+(-0.0039)Arg+(0.0087)Pro+(-0.0133)Tyr+(-0.2204)Met;0.695,0.740,0.775,0.797,0.754,0.807,0.738,0.774,(4.0654)+(-0.0543)Asn+(-0.0046)Ala+(-0.0149)Tyr+(-0.1115)Met+(0.0301)Orn+(-0.0003)Leu;0.695,0.741,0.734,0.733,0.658,0.842,0.815,0.762,(0.3800)+(0.0284)Ser+(-0.0078)Gly+(-0.0085)Ala+(-0.0327)Val+(0.0218)Orn+(0.0418)Leu;0.694,0.747,0.746,0.759,0.727,0.818,0.697,0.750,(0.9717)+(0.0372)Ser+(-0.0085)Gly+(-0.0098)Thr+(-0.0275)Arg+(-0.0150)Val+(0.0294)Orn;0.694,0.745,0.767,0.804,0.769,0.800,0.643,0.754,(6.1613)+(-0.1031)Asn+(0.0192)Thr+(-0.0591)Cit+(-0.0292)Tyr+(-0.0080)Val+(-0.0018)Lys;0.694,0.739,0.780,0.782,0.758,0.840,0.774,0.788,(2.8407)+(0.0038)Gln+(-0.0117)Ala+(-0.0883)Cit+(0.0115)Pro+(-0.0121)Lys+(0.0047)Leu;0.694,0.746,0.734,0.727,0.769,0.823,0.617,0.734,(3.5048)+(-0.1011)Cit+(-0.0053)Arg+(0.0026)Pro+(-0.0115)Val+(0.0580)Orn+(-0.0150)Lys;0.694,0.738,0.740,0.796,0.680,0.755,0.708,0.734,(1.9354)+(-0.0091)Ala+(-0.0189)Arg+(0.0126)Pro+(-0.0585)Tyr+(-0.0150)Leu+(0.0797)Phe;0.694,0.749,0.699,0.729,0.603,0.831,0.725,0.722,(0.9426)+(0.0215)Ser+(-0.0094)Ala+(0.0127)Pro+(-0.0368)Tyr+(-0.0261)Val+(0.0360)Leu;0.694,0.742,0.767,0.783,0.748,0.825,0.721,0.769,(1.9069)+(0.0033)Gly+(-0.0085)Ala+(-0.0815)Cit+(-0.0060)Val+(-0.0105)Lys+(0.0714)Phe;0.694,0.743,0.756,0.775,0.726,0.777,0.755,0.758,(6.1410)+(-0.1016)Asn+(-0.0438)Cit+(0.0088)Pro+(-0.0249)Tyr+(-0.0331)Val+(0.0452)Leu;0.694,0.741,0.746,0.745,0.690,0.806,0.822,0.766,(0.7763)+(0.0005)Gly+(0.0011)Gln+(-0.0137)Ala+(-0.0236)Arg+(0.0062)Pro+(0.0418)Ile;0.694,0.746,0.782,0.791,0.764,0.838,0.757,0.787,(1.3486)+(0.0033)Gln+(0.0080)Th

r+(-0.0102)Ala+(-0.0919)Cit+(-0.0171)Lys+(0.0587)Phe;0.694,0.742,0.765,0.775,0.752,0.831,0.723,0.770,(1.8648)+(0.0037)Gly+(-0.0095)Ala+(-0.0904)Cit+(0.0030)Arg+(-0.0135)Lys+(0.0649)Phe;0.694,0.742,0.806,0.836,0.754,0.843,0.805,0.810,(3.7981)+(-0.1156)Asn+(0.0048)Gln+(-0.0069)Ala+(0.0120)Pro+(-0.0126)Val+(-0.0001)Lys;0.694,0.746,0.715,0.699,0.749,0.806,0.618,0.718,(1.5943)+(0.0017)Gly+(-0.1114)Cit+(-0.0139)Val+(0.0578)Orn+(-0.0207)Lys+(0.0571)Phe;0.694,0.737,0.763,0.788,0.726,0.815,0.736,0.766,(2.9867)+(0.0033)Gln+(-0.0109)Ala+(-0.0840)Cit+(0.0137)Pro+(-0.0368)Tyr+(0.0004)Leu;0.694,0.751,0.782,0.811,0.769,0.838,0.691,0.777,(5.2288)+(-0.1063)Asn+(0.0119)Thr+(-0.0042)Ala+(-0.0162)Arg+(-0.0145)Val+(0.0372)Orn;0.694,0.749,0.744,0.782,0.739,0.808,0.610,0.735,(3.3839)+(0.0145)Thr+(-0.0102)Tyr+(-0.0093)Val+(-0.2105)Met+(0.0276)Orn+(-0.0038)Lys;0.694,0.747,0.736,0.742,0.685,0.806,0.777,0.752,(-0.9262)+(0.0408)Ser+(-0.0075)Gly+(-0.0086)Ala+(-0.0213)Lys+(-0.0015)Leu+(0.0538)Phe;0.694,0.745,0.739,0.775,0.745,0.772,0.607,0.725,(1.7141)+(0.0043)Gln+(0.0185)Thr+(-0.0210)Arg+(0.0069)Pro+(-0.2942)Met+(-0.0005)Leu;0.694,0.738,0.707,0.690,0.695,0.802,0.707,0.723,(1.4776)+(0.0392)Ser+(-0.0067)Gly+(-0.0569)Cit+(-0.0255)Val+(-0.0204)Lys+(0.0415)Leu;0.694,0.741,0.714,0.741,0.711,0.744,0.626,0.705,(2.7527)+(-0.0017)Gly+(0.0148)Thr+(0.0074)Pro+(-0.0241)Tyr+(-0.2564)Met+(0.0152)Orn;0.694,0.755,0.733,0.777,0.701,0.834,0.609,0.730,(1.0494)+(0.0242)Ser+(-0.0066)Ala+(-0.0256)Arg+(-0.0347)Tyr+(0.0251)Orn+(-0.0020)Leu;0.694,0.752,0.711,0.710,0.661,0.823,0.738,0.733,(-0.0307)+(0.0322)Ser+(-0.0142)Thr+(-0.0103)Ala+(0.0113)Pro+(0.0217)Orn+(-0.0160)Lys;0.694,0.737,0.752,0.774,0.751,0.771,0.684,0.745,(3.9907)+(-0.0508)Asn+(0.0000)Gly+(-0.0191)Tyr+(-0.1282)Met+(0.0303)Orn+(-0.0051)Lys;0.694,0.744,0.648,0.605,0.633,0.747,0.725,0.6

77,(-1.9228)+(0.0449)Ser+(-0.0080)Gly+(-0.0040)Pro+(-0.0344)Lys+(0.04

43)Ile+(0.0199)Phe;0.694,0.743,0.778,0.819,0.770,0.822,0.653,0.766,(2.2624)+(0.0046)Gln+(0.0208)Thr+(-0.0039)Ala+(-0.0183)Arg+(-0.2349)Met+(-0.0027)Lys;0.694,0.740,0.797,0.831,0.781,0.837,0.713,0.790,(3.6509)+(-0.1234)Asn+(0.0053)Gln+(-0.0180)Arg+(-0.0167)Val+(0.0355)Orn+(-0.0001)Lys;0.694,0.743,0.818,0.853,0.788,0.831,0.783,0.814,(2.6230)+(-0.0685)Asn+(0.0064)Gln+(-0.0036)Ala+(-0.0081)Tyr+(-0.1299)Met+(-0.0015)Lys;0.694,0.740,0.724,0.744,0.667,0.795,0.740,0.737,(2.1500)+(0.0055)Thr+(-0.0100)Ala+(-0.0223)Arg+(-0.0467)Tyr+(0.0144)Orn+(0.0479)Ile;0.694,0.745,0.651,0.605,0.639,0.757,0.725,0.681,(-1.3202)+(0.0432)Ser+(-0.0082)Gly+(-0.0041)Pro+(0.0103)Orn+(-0.0336)Lys+(0.0461)Ile;0.694,0.742,0.667,0.676,0.669,0.718,0.603,0.667,(0.9696)+(-0.0001)Thr+(-0.1066)Cit+(-0.0804)Tyr+(0.0359)Orn+(0.0229)Ile+(0.0398)Phe;0.694,0.741,0.717,0.747,0.629,0.770,0.787,0.733,(0.4913)+(0.0000)Gln+(-0.0110)Ala+(-0.0593)Tyr+(0.0063)Orn+(0.0414)Ile+(0.0386)Phe;0.694,0.741,0.795,0.823,0.769,0.803,0.769,0.791,(2.4939)+(-0.0983)Asn+(0.0027)Gly+(-0.0069)Ala+(-0.0114)Arg+(-0.0122)Leu+(0.0697)Phe;0.694,0.746,0.715,0.742,0.725,0.811,0.557,0.709,(2.0892)+(0.0286)Ser+(-0.0655)Cit+(-0.0070)Arg+(-0.0284)Tyr+(-0.0027)Val+(-0.0107)Lys;0.694,0.744,0.719,0.753,0.713,0.756,0.616,0.709,(1.6210)+(0.0026)Gln+(0.0125)Thr+(0.0073)Pro+(-0.0205)Tyr+(-0.2745)Met+(0.0111)Orn;0.694,0.742,0.736,0.748,0.726,0.814,0.666,0.738,(1.3558)+(0.0343)Ser+(-0.0086)Gly+(-0.0009)Gln+(-0.0308)Arg+(-0.0162)Val+(0.0271)Orn;0.694,0.740,0.736,0.786,0.695,0.697,0.719,0.724,(1.1996)+(-0.1304)Asn+(0.0043)Gln+(0.0028)Pro+(-0.0709)Tyr+(0.0140)Orn+(0.0606)Phe;0.694,0.743,0.725,0.744,0.708,0.782,0.668,0.726,(0.5194)+(0.0391)Ser+(-0.1592)Asn+(0.0024)Gln+(-0.0064)Thr+(0.0050)Pro+(-0.0088)Leu;0.694,0.743,0.740,0.753,0.750,0.780,0.658,0.735,(3.1112)+(0.0003)Gly+(-0.0116)Arg+(0.0068)Pro+(-0.2177)Met+(0.0251)Orn+(-0.0052)Lys;0.694,0.741,0.741,0.781,0.684,0.763,0.737,0.741,(2.1263)+(-

0.0097)Ala+(-0.0140)Arg+(0.0116)Pro+(-0.0546)Tyr+(-0.0087)Lys+(0.0691)Phe;0.694,0.744,0.772,0.793,0.772,0.792,0.703,0.765,(5.7759)+(-0.0463)Asn+(-0.0516)Cit+(0.0112)Pro+(-0.0111)Tyr+(-0.0087)Val+(-0.1223)Met;0.694,0.742,0.737,0.792,0.701,0.681,0.710,0.721,(1.2705)+(-0.1491)Asn+(-0.0007)Gly+(0.0046)Gln+(0.0137)Thr+(-0.0746)Tyr+(0.0692)Phe;0.694,0.742,0.722,0.754,0.630,0.773,0.795,0.738,(0.4536)+(0.0003)Gln+(0.0005)Thr+(-0.0110)Ala+(-0.0591)Tyr+(0.0432)Ile+(0.0398)Phe;0.694,0.737,0.744,0.755,0.728,0.783,0.722,0.747,(5.3749)+(-0.1235)Asn+(0.0040)Gly+(-0.0515)Cit+(0.0075)Pro+(-0.0363)Val+(0.0487)Leu;0.694,0.744,0.773,0.818,0.764,0.818,0.639,0.760,(2.2691)+(0.0045)Gln+(0.0210)Thr+(-0.0038)Ala+(-0.0195)Arg+(-0.0076)Tyr+(-0.2310)Met;0.694,0.742,0.704,0.724,0.723,0.766,0.567,0.695,(2.3801)+(0.0017)Gln+(-0.0977)Cit+(-0.0124)Arg+(0.0032)Pro+(-0.0612)Tyr+(0.0444)Orn;0.694,0.734,0.779,0.814,0.734,0.819,0.756,0.781,(5.6565)+(-0.0737)Asn+(-0.0065)Ala+(-0.0058)Arg+(0.0142)Pro+(-0.0231)Tyr+(-0.0098)Val;0.694,0.749,0.745,0.782,0.754,0.820,0.576,0.733,(3.9172)+(0.0184)Thr+(-0.0198)Arg+(-0.0112)Tyr+(-0.0105)Val+(-0.2021)Met+(0.0304)Orn;0.694,0.745,0.777,0.818,0.756,0.824,0.678,0.769,(2.1853)+(0.0038)Gln+(0.0174)Thr+(-0.0040)Ala+(-0.0061)Tyr+(-0.2266)Met+(-0.0053)Lys;0.694,0.745,0.745,0.792,0.729,0.773,0.635,0.732,(5.8779)+(-0.1050)Asn+(0.0185)Thr+(-0.0149)Arg+(0.0098)Pro+(-0.0367)Tyr+(-0.0140)Val;0.694,0.744,0.762,0.766,0.750,0.835,0.728,0.770,(3.6901)+(0.0032)Gly+(-0.0118)Ala+(-0.0873)Cit+(0.0127)Pro+(-0.0098)Lys+(0.0053)Leu;0.694,0.744,0.757,0.784,0.758,0.820,0.637,0.750,(3.5110)+(0.0180)Thr+(-0.0046)Ala+(-0.0161)Arg+(-0.2042)Met+(0.0249)Orn+(-0.0046)Lys;0.694,0.743,0.771,0.775,0.763,0.828,0.737,0.776,(2.3903)+(0.0109)Thr+(-0.0101)Ala+(-0.0870)Cit+(-0.0158)Lys+(0.0002)Leu+(0.0606)Phe;0.694,0.741,0.823,0.855,0.798,0.836,0.780,0.817,(2.4986)+(-0.0621)Asn+(-0.0001)Gly+(0.0068)Gln+(-0.0036)Ala+(-0.0101)Arg+(-0.1408)Met;

0.694,0.740,0.746,0.796,0.707,0.705,0.726,0.733,(1.1824)+(-0.1302)Asn+(-0.0002)Gly+(0.0045)Gln+(-0.0686)Tyr+(0.0153)Orn+(0.0619)Phe;0.694,0.740,0.724,0.739,0.732,0.770,0.632,0.719,(2.8253)+(-0.0010)Gly+(0.0144)Thr+(0.0062)Pro+(-0.2626)Met+(0.0175)Orn+(-0.0081)Lys;0.694,0.746,0.641,0.591,0.632,0.751,0.713,0.672,(-0.8266)+(0.0459)Ser+(-0.0075)Gly+(-0.0020)Gln+(-0.0033)Pro+(-0.0311)Lys+(0.0490)Ile;0.694,0.738,0.754,0.775,0.758,0.774,0.675,0.746,(4.1548)+(-0.0461)Asn+(-0.0091)Arg+(-0.0194)Tyr+(-0.1227)Met+(0.0320)Orn+(-0.0038)Lys;0.694,0.738,0.762,0.794,0.749,0.771,0.701,0.754,(4.6232)+(-0.0625)Asn+(0.0015)Gly+(0.0113)Pro+(-0.0132)Val+(-0.1630)Met+(0.0061)Lys;0.694,0.754,0.712,0.757,0.707,0.820,0.529,0.703,(1.6977)+(0.0243)Ser+(-0.0235)Arg+(-0.0334)Tyr+(-0.0094)Val+(0.0321)Orn+(-0.0094)Lys;0.694,0.743,0.740,0.785,0.688,0.700,0.759,0.733,(0.9560)+(-0.1270)Asn+(0.0047)Gln+(0.0011)Pro+(-0.0701)Tyr+(0.0205)Ile+(0.0536)Phe;0.694,0.741,0.742,0.754,0.766,0.777,0.637,0.734,(3.7589)+(0.0033)Gly+(-0.0711)Cit+(0.0026)Arg+(0.0090)Pro+(-0.2112)Met+(-0.0020)Lys;0.694,0.747,0.766,0.784,0.725,0.838,0.751,0.774,(1.0647)+(0.0390)Ser+(-0.0079)Gly+(0.0010)Gln+(-0.0065)Ala+(-0.0174)Arg+(-0.0127)Lys;0.694,0.745,0.746,0.778,0.738,0.782,0.655,0.738,(1.8769)+(0.0041)Gln+(-0.0174)Arg+(0.0075)Pro+(-0.0191)Tyr+(-0.2228)Met+(0.0199)Orn;0.694,0.743,0.814,0.846,0.783,0.826,0.789,0.811,(2.4145)+(-0.0675)Asn+(0.0062)Gln+(-0.0040)Ala+(-0.0087)Tyr+(-0.1414)Met+(0.0039)Leu;0.694,0.740,0.677,0.680,0.685,0.737,0.613,0.679,(1.9839)+(-0.0011)Thr+(-0.1059)Cit+(-0.0004)Pro+(-0.0670)Tyr+(0.0386)Orn+(0.0306)Ile;0.694,0.751,0.756,0.787,0.709,0.825,0.724,0.761,(1.5695)+(0.0384)Ser+(-0.0085)Gly+(-0.0055)Ala+(-0.0204)Arg+(-0.0366)Tyr+(0.0011)Leu;0.694,0.744,0.763,0.800,0.736,0.819,0.682,0.759,(1.9256)+(0.0027)Gln+(0.0128)Thr+(-0.0047)Ala+(-0.0099)Tyr+(-0.2287)Met+(0.0173)Orn;0.694,0.740,0.750,0.771,0.735,0.843,0.659,0.752,(1.4046)+(0.0252)Ser+(0.0008

)Gln+(-0.0077)Ala+(-0.0716)Cit+(-0.0115)Arg+(-0.0032)Val;0.694,0.739,0.779,0.798,0.788,0.800,0.693,0.770,(2.0602)+(0.0012)Gly+(0.0063)Gln+(-0.0763)Cit+(-0.2122)Met+(-0.0063)Lys+(0.0084)Leu;0.694,0.746,0.768,0.768,0.771,0.757,0.770,0.767,(0.7967)+(-0.1443)Asn+(0.0071)Gln+(-0.0841)Cit+(-0.0069)Arg+(0.0205)Ile+(0.0270)Phe;0.694,0.744,0.789,0.844,0.765,0.816,0.673,0.774,(4.0966)+(-0.1281)Asn+(0.0063)Gln+(0.0177)Thr+(-0.0185)Arg+(-0.0303)Tyr+(-0.0116)Val;0.694,0.742,0.711,0.699,0.670,0.802,0.765,0.734,(0.7681)+(0.0421)Ser+(-0.0089)Gly+(-0.0032)Thr+(-0.0304)Val+(-0.0204)Lys+(0.0455)Leu;0.694,0.741,0.757,0.767,0.738,0.798,0.741,0.761,(5.3825)+(-0.1203)Asn+(0.0038)Gly+(-0.0543)Cit+(0.0039)Arg+(-0.0349)Val+(0.0518)Leu;0.694,0.748,0.760,0.780,0.768,0.764,0.688,0.750,(0.5029)+(-0.1537)Asn+(0.0048)Gly+(0.0067)Gln+(-0.0891)Cit+(-0.0059)Arg+(0.0485)Phe;0.694,0.739,0.721,0.740,0.738,0.771,0.599,0.712,(2.5271)+(-0.0015)Gly+(0.0022)Gln+(-0.0975)Cit+(-0.0121)Arg+(-0.0587)Tyr+(0.0461)Orn;0.694,0.747,0.759,0.754,0.766,0.752,0.762,0.758,(0.8343)+(-0.1590)Asn+(0.0065)Gln+(0.0053)Thr+(-0.0901)Cit+(0.0195)Ile+(0.0269)Phe;0.694,0.746,0.761,0.777,0.721,0.835,0.748,0.770,(1.2622)+(0.0404)Ser+(-0.0077)Gly+(-0.0015)Thr+(-0.0063)Ala+(-0.0161)Arg+(-0.0120)Lys;0.694,0.746,0.794,0.800,0.792,0.812,0.768,0.793,(4.9441)+(-0.0380)Asn+(-0.0056)Ala+(-0.0722)Cit+(0.0085)Arg+(-0.1172)Met+(0.0092)Leu;0.694,0.741,0.752,0.767,0.705,0.811,0.765,0.762,(4.2606)+(-0.0099)Ala+(-0.0673)Cit+(0.0141)Pro+(-0.0302)Tyr+(-0.0208)Val+(0.0323)Leu;0.694,0.743,0.724,0.759,0.692,0.695,0.716,0.715,(2.5066)+(-0.0878)Asn+(-0.0122)Arg+(0.0023)Pro+(-0.0668)Tyr+(0.0229)Ile+(0.0539)Phe;0.694,0.738,0.739,0.789,0.674,0.760,0.730,0.738,(0.9219)+(0.0022)Gln+(-0.0104)Ala+(-0.0221)Arg+(0.0110)Pro+(-0.0599)Tyr+(0.0636)Phe;0.694,0.735,0.738,0.774,0.674,0.764,0.757,0.742,(2.0715)+(-0.0010)Gly+(-0.0097)Ala+(0.0111)Pro+(-0.0563)Tyr+(-0.0123)Lys+(0.0667)Phe;0.694,0.742,0.803,0.

830,0.766,0.806,0.809,0.803,(1.4404)+(-0.1444)Asn+(0.0042)Gln+(0.0089)Thr+(-0.0077)Ala+(-0.0142)Leu+(0.0628)Phe;0.694,0.742,0.697,0.677,0.718,0.801,0.631,0.707,(1.4336)+(0.0273)Ser+(-0.0056)Gly+(-0.0026)Gln+(-0.0956)Cit+(-0.0147)Val+(0.0452)Orn;0.694,0.740,0.727,0.732,0.649,0.810,0.819,0.752,(-0.9531)+(0.0309)Ser+(-0.0069)Gly+(-0.0092)Ala+(-0.0289)Val+(0.0327)Leu+(0.0432)Phe;0.694,0.740,0.682,0.739,0.634,0.690,0.627,0.672,(1.1661)+(-0.0014)Gln+(0.0058)Pro+(-0.0742)Tyr+(-0.0191)Val+(0.0259)Orn+(0.0742)Phe;0.694,0.732,0.759,0.773,0.721,0.805,0.772,0.768,(1.4797)+(0.0014)Gln+(-0.0121)Ala+(-0.0819)Cit+(0.0112)Pro+(-0.0102)Val+(0.0525)Phe;0.694,0.748,0.724,0.730,0.707,0.783,0.702,0.730,(2.1299)+(0.0043)Gln+(-0.0835)Cit+(0.0007)Arg+(-0.0496)Tyr+(-0.0205)Lys+(0.0520)Ile;0.694,0.742,0.708,0.700,0.731,0.750,0.652,0.708,(2.6557)+(-0.1251)Asn+(0.0054)Gly+(0.0065)Thr+(-0.0870)Cit+(-0.0020)Pro+(0.0350)Ile;0.694,0.738,0.713,0.724,0.683,0.768,0.705,0.720,(-0.6508)+(0.0374)Ser+(-0.0075)Gly+(-0.0316)Arg+(-0.0311)Val+(0.0260)Leu+(0.0452)Phe;0.694,0.743,0.684,0.690,0.664,0.810,0.618,0.696,(0.6462)+(0.0308)Ser+(-0.0208)Arg+(0.0056)Pro+(-0.0307)Val+(-0.0156)Lys+(0.0408)Leu;0.694,0.743,0.739,0.751,0.764,0.769,0.636,0.730,(3.5385)+(0.0034)Gly+(-0.0717)Cit+(0.0018)Arg+(0.0086)Pro+(-0.2229)Met+(0.0021)Leu;0.693,0.741,0.730,0.753,0.730,0.763,0.645,0.723,(3.2281)+(-0.0002)Gly+(-0.0135)Arg+(0.0077)Pro+(-0.0212)Tyr+(-0.1999)Met+(0.0247)Orn;0.693,0.746,0.709,0.741,0.681,0.762,0.644,0.707,(1.5403)+(0.0407)Ser+(-0.0101)Gly+(-0.0257)Arg+(0.0089)Pro+(-0.0573)Tyr+(-0.0088)Leu;0.693,0.741,0.786,0.795,0.748,0.832,0.803,0.795,(2.9596)+(-0.1003)Asn+(0.0038)Gln+(-0.0093)Ala+(0.0086)Pro+(0.0221)Orn+(-0.0102)Lys;0.693,0.738,0.765,0.790,0.766,0.807,0.665,0.757,(3.9016)+(-0.0008)Gly+(-0.0143)Arg+(-0.0109)Val+(-0.1699)Met+(0.0371)Orn+(0.0003)Lys;0.693,0.737,0.756,0.756,0.702,0.818,0.824,0.775,(0.7104)+(0.0015)Gln+(-0.0034)Thr+(-0.0123)Ala+(-0.

0232)Arg+(0.0106)Orn+(0.0433)Ile;0.693,0.748,0.784,0.824,0.771,0.820,0.679,0.774,(2.4367)+(-0.0025)Gly+(0.0041)Gln+(0.0185)Thr+(-0.0074)Val+(-0.2524)Met+(-0.0029)Lys;0.693,0.739,0.759,0.780,0.753,0.799,0.691,0.756,(3.2198)+(-0.0006)Gly+(0.0213)Thr+(-0.0049)Ala+(-0.2340)Met+(-0.0071)Lys+(0.0110)Leu;0.693,0.745,0.678,0.684,0.690,0.744,0.589,0.677,(2.2557)+(0.0021)Thr+(-0.0976)Cit+(-0.0109)Arg+(-0.0660)Tyr+(0.0380)Orn+(0.0302)Ile;0.693,0.745,0.807,0.831,0.800,0.826,0.745,0.801,(2.5981)+(0.0063)Gln+(-0.0047)Ala
+(-0.0742)Cit+(-0.0019)Arg+(0.0006)Tyr+(-0.1676)Met;0.693,0.743,0.693,0.739,0.675,0.796,0.537,0.687,(1.5614)+(0.0281)Ser+(-0.0225)Arg+(0.0096)Pro+(-0.0379)Tyr+(-0.0095)Val+(-0.0071)Lys;0.693,0.742,0.735,0.780,0.685,0.702,0.744,0.728,(1.0127)+(-0.1278)Asn+(0.0043)Gln+(-0.0702)Tyr+(0.0098)Orn+(0.0187)Ile+(0.0520)Phe;0.693,0.740,0.761,0.765,0.703,0.812,0.835,0.779,(0.2407)+(0.0016)Gln+(-0.0018)Thr+(-0.0128)Ala+(-0.0234)Arg+(0.0429)Ile+(0.0169)Phe;0.693,0.747,0.744,0.742,0.774,0.833,0.626,0.744,(2.9848)+(0.0017)Gln+(-0.1034)Cit+(-0.0061)Arg+(-0.0104)Val+(0.0574)Orn+(-0.0160)Lys;0.693,0.744,0.719,0.775,0.671,0.707,0.684,0.709,(1.3251)+(-0.0042)Gly+(0.0029)Thr+(-0.0757)Tyr+(-0.0184)Val+(0.0285)Orn+(0.0769)Phe;0.693,0.744,0.720,0.755,0.731,0.756,0.579,0.705,(3.6021)+(-0.0010)Gly+(0.0225)Thr+(-0.0173)Arg+(0.0084)Pro+(-0.0216)Tyr+(-0.2483)Met;0.693,0.743,0.756,0.784,0.754,0.791,0.662,0.748,(1.7349)+(0.0042)Gln+(-0.0178)Arg+(0.0071)Pro+(-0.2430)Met+(0.0197)Orn+(-0.0048)Leu;0.693,0.743,0.773,0.801,0.747,0.820,0.720,0.772,(3.6883)+(-0.0012)Gly+(-0.0035)Ala+(-0.0078)Tyr+(-0.0086)Val+(-0.1544)Met+(0.0346)Orn;0.693,0.741,0.745,0.770,0.765,0.777,0.614,0.731,(3.7739)+(-0.0528)Asn+(0.0194)Thr+(-0.0153)Arg+(-0.2077)Met+(0.0206)Orn+(-0.0024)Leu;0.693,0.741,0.779,0.806,0.752,0.808,0.741,0.777,(3.6432)+(-0.1414)Asn+(-0.0005)Gly+(0.0040)Gln+(0.0061)Pro+(-0.0191)Val+(0.0302)Orn;0.6

93,0.734,0.740,0.777,0.697,0.821,0.672,0.742,(3.8138)+(-0.0079)Ala+(-0.0206)Arg+(0.0126)Pro+(-0.0367)Tyr+(-0.0117)Val+(0.0341)Orn;0.693,0.745,0.798,0.832,0.786,0.812,0.723,0.789,(3.2606)+(-0.1067)Asn+(0.0013)Gly+(0.0079)Gln+(-0.0770)Cit+(-0.0293)Tyr+(-0.0053)Lys;0.693,0.745,0.820,0.859,0.794,0.822,0.773,0.812,(3.1407)+(-0.0816)Asn+(-0.0006)Gly+(0.0069)Gln+(-0.0070)Tyr+(-0.0085)Val+(-0.1246)Met;0.693,0.742,0.686,0.676,0.746,0.803,0.506,0.683,(0.7173)+(0.0235)Ser+(-0.0017)Gln+(-0.0926)Cit+(-0.0203)Arg+(0.0392)Orn+(-0.0140)Leu;0.693,0.740,0.633,0.602,0.644,0.763,0.601,0.652,(-0.9597)+(0.0379)Ser+(-0.0017)Gln+(-0.0205)Arg+(-0.0025)Pro+(-0.0262)Lys+(0.0505)Ile;0.693,0.743,0.756,0.796,0.718,0.811,0.688,0.753,(1.8572)+(0.0375)Ser+(-0.0102)Gly+(0.0015)Gln+(-0.0241)Arg+(-0.0406)Tyr+(-0.0087)Val;0.693,0.747,0.730,0.722,0.765,0.825,0.614,0.731,(3.3646)+(0.0003)Gly+(-0.1066)Cit+(0.0023)Pro+(-0.0110)Val+(0.0584)Orn+(-0.0167)Lys;0.693,0.735,0.739,0.737,0.718,0.819,0.726,0.750,(1.0042)+(0.0303)Ser+(-0.0043)Gly+(0.0001)Gln+(-0.0096)Ala+(-0.0821)Cit+(0.0036)Leu;0.693,0.743,0.784,0.802,0.757,0.799,0.782,0.785,(2.4832)+(-0.1244)Asn+(0.0071)Thr+(-0.0078)Ala+(0.0204)Orn+(-0.0166)Leu+(0.0615)Phe;0.693,0.743,0.741,0.751,0.667,0.827,0.805,0.763,(0.5355)+(0.0383)Ser+(-0.0072)Gly+(-0.0141)Thr+(-0.0098)Ala+(0.0141)Pro+(-0.0098)Val;0.693,0.743,0.761,0.784,0.758,0.789,0.685,0.754,(1.5937)+(-0.0008)Gly+(0.0045)Gln+(-0.0173)Arg+(0.0065)Pro+(-0.2527)Met+(0.0180)Orn;0.693,0.742,0.628,0.588,0.614,0.745,0.680,0.657,(-2.7205)+(0.0403)Ser+(-0.0152)Thr+(-0.0028)Pro+(-0.0296)Lys+(0.0481)Ile+(0.0220)Phe;0.693,0.738,0.707,0.723,0.731,0.764,0.573,0.698,(3.1520)+(-0.0009)Gly+(0.0024)Thr+(-0.0975)Cit+(-0.0108)Arg+(-0.0580)Tyr+(0.0478)Orn;0.693,0.749,0.672,0.729,0.623,0.706,0.596,0.664,(-2.0421)+(0.0277)Ser+(-0.0138)Thr+(-0.0706)Tyr+(0.0171)Orn+(-0.0188)Leu+(0.0764)Phe;0.693,0.740,0.744,0.797,0.702,0.688,0.731,0.730,(1.1208)+(-0.1297)Asn+(0.00

02)Gly+(0.0049)Gln+(0.0035)Pro+(-0.0693)Tyr+(0.0645)Phe;0.693,0.739,0.737,0.782,0.673,0.757,0.735,0.737,(1.8740)+(-0.0091)Ala+(0.0118)Pro+(-0.0571)Tyr+(-0.0101)Lys+(-0.0103)Leu+(0.0757)Phe;0.693,0.752,0.714,0.728,0.667,0.808,0.709,0.728,(-1.4389)+(0.0292)Ser+(-0.0093)Ala+(0.0176)Orn+(-0.0227)Lys+(-0.0029)Leu+(0.0528)Phe;0.693,0.748,0.727,0.734,0.661,0.860,0.751,0.751,(0.7538)+(0.0293)Ser+(-0.0015)Thr+(-0.0068)Ala+(-0.0280)Val+(-0.0167)Lys+(0.0494)Leu;0.693,0.742,0.741,0.807,0.701,0.758,0.641,0.727,(1.4893)+(0.0137)Thr+(-0.0069)Ala+(-0.0248)Arg+(-0.0622)Tyr+(-0.0132)Leu+(0.0863)Phe;0.693,0.742,0.756,0.788,0.711,0.805,0.730,0.759,(4.8536)+(-0.0892)Asn+(0.0139)Thr+(-0.0083)Ala+(0.0119)Pro+(-0.0368)Tyr+(-0.0050)Lys;0.693,0.741,0.779,0.813,0.770,0.832,0.672,0.771,(2.4964)+(0.0041)Gln+(-0.0178)Arg+(-0.0102)Val+(-0.1912)Met+(0.0321)Orn+(-0.0006)Lys;0.693,0.741,0.755,0.759,0.697,0.811,0.825,0.773,(0.1584)+(0.0008)Gly+(0.0013)Gln+(-0.0129)Ala+(-0.0244)Arg+(0.0430)Ile+(0.0175)Phe;0.693,0.738,0.761,0.768,0.782,0.767,0.696,0.753,(4.7192)+(-0.0342)Asn+(-0.0610)Cit+(0.0082)Pro+(-0.1721)Met+(-0.0004)Lys+(-0.0001)Leu;0.693,0.745,0.752,0.775,0.762,0.790,0.646,0.743,(4.4527)+(0.0025)Gly+(-0.0606)Cit+(0.0114)Pro+(-0.0066)Tyr+(-0.0073)Val+(-0.1858)Met;0.693,0.744,0.746,0.745,0.695,0.813,0.810,0.766,(0.4980)+(0.0010)Gly+(-0.0128)Ala+(-0.0243)Arg+(0.0089)Orn+(0.0407)Ile+(0.0167)Phe;0.693,0.744,0.816,0.840,0.780,0.816,0.830,0.816,(1.5224)+(-0.1181)Asn+(0.0050)Gln+(-0.0071)Ala+(-0.0073)Lys+(-0.0096)Leu+(0.0627)Phe;0.693,0.743,0.729,0.778,0.683,0.767,0.666,0.723,(1.2315)+(0.0086)Thr+(-0.0085)Ala+(-0.0259)Arg+(-0.0617)Tyr+(0.0209)Orn+(0.0656)Phe;0.693,0.745,0.711,0.735,0.721,0.807,0.561,0.706,(2.0102)+(0.0282)Ser+(-0.0004)Thr+(-0.0716)Cit+(-0.0292)Tyr+(-0.0021)Val+(-0.0124)Lys;0.693,0.739,0.701,0.736,0.708,0.776,0.543,0.691,(0.9684)+(0.0274)Ser+(0.0009)Gln+(-0.0043)Thr+(-0.0673)Cit+(-0.0127)Arg+(-0.0408)Tyr;0.693,0.748,0.737

,0.729,0.771,0.826,0.621,0.737,(3.4529)+(0.0002)Gly+(-0.0002)Thr+(-0.1075)Cit+(-0.0102)Val+(0.0598)Orn+(-0.0164)Lys;0.693,0.745,0.716,0.736,0.630,0.801,0.779,0.737,(-1.6673)+(0.0313)Ser+(-0.0172)Thr+(-0.0109)Ala+(0.0124)Pro+(-0.0132)Val+(0.0532)Phe;0.693,0.744,0.732,0.769,0.723,0.767,0.627,0.722,(1.9936)+(0.0035)Gln+(0.0157)Thr+(0.0078)Pro+(-0.0174)Tyr+(-0.2613)Met+(-0.0066)Lys;0.693,0.743,0.744,0.716,0.752,0.788,0.767,0.756,(3.9027)+(-0.0737)Asn+(-0.0806)Cit+(0.0089)Arg+(-0.0026)Pro+(-0.0170)Lys+(0.0456)Ile;0.693,0.743,0.718,0.727,0.694,0.746,0.721,0.722,(3.6202)+(-0.0731)Asn+(0.0004)Pro+(-0.0494)Tyr+(0.0235)Orn+(-0.0143)Lys+(0.0372)Ile;0.693,0.741,0.767,0.773,0.737,0.826,0.772,0.777,(3.9964)+(-0.0911)Asn+(0.0059)Thr+(-0.0095)Ala+(0.0090)Pro+(0.0230)Orn+(-0.0100)Lys;0.693,0.741,0.775,0.792,0.768,0.819,0.714,0.773,(3.5587)+(-0.0001)Gly+(-0.0048)Ala+(-0.0112)Arg+(-0.1562)Met+(0.0320)Orn+(-0.0041)Lys;0.693,0.747,0.768,0.808,0.770,0.800,0.635,0.753,(6.1901)+(-0.1029)Asn+(0.0197)Thr+(-0.0556)Cit+(-0.0047)Arg+(-0.0294)Tyr+(-0.0086)Val;0.693,0.733,0.718,0.712,0.731,0.800,0.651,0.723,(2.5875)+(-0.0028)Thr+(-0.0863)Cit+(-0.0143)Arg+(-0.0304)Val+(0.0527)Orn+(0.0297)Leu;0.693,0.744,0.794,0.831,0.780,0.804,0.717,0.783,(3.0749)+(-0.1131)Asn+(0.0013)Gly+(0.0077)Gln+(-0.0754)Cit+(-0.0032)Arg+(-0.0328)Tyr;0.693,0.741,0.722,0.746,0.742,0.769,0.582,0.710,(2.9361)+(0.0169)Thr+(-0.0189)Arg+(0.0068)Pro+(-0.2694)Met+(0.0169)Orn+(-0.0030)Leu;0.693,0.737,0.747,0.768,0.720,0.810,0.706,0.751,(3.9978)+(0.0072)Thr+(-0.0110)Ala+(-0.0814)Cit+(0.0138)Pro+(-0.0384)Tyr+(0.0011)Leu;0.693,0.743,0.608,0.555,0.611,0.745,0.645,0.639,(-1.4842)+(0.0419)Ser+(-0.0027)Gln+(-0.0156)Thr+(0.0137)Orn+(-0.0276)Lys+(0.0474)Ile;0.693,0.739,0.800,0.833,0.782,0.836,0.724,0.794,(3.7141)+(-0.1226)Asn+(-0.0008)Gly+(0.0054)Gln+(-0.0181)Arg+(-0.0168)Val+(0.0357)Orn;0.693,0.736,0.695,0.744,0.666,0.703,0.618,0.683,(1.2552)+(0.0049)Pro+(-0.0731)Tyr+(0.0257)

Orn+(-0.0157)Lys+(-0.0170)Leu+(0.0751)Phe;0.693,0.745,0.727,0.733,0.709,0.786,0.705,0.733,(2.1120)+(0.0044)Gln+(-0.0831)Cit+(-0.0012)Pro+(-0.0484)Tyr+(-0.0205)Lys+(0.0534)Ile;0.693,0.741,0.755,0.775,0.730,0.817,0.710,0.758,(4.0268)+(0.0018)Gly+(-0.0107)Ala+(-0.0789)Cit+(-0.0020)Arg+(0.0144)Pro+(-0.0312)Tyr;0.693,0.743,0.701,0.733,0.631,0.835,0.663,0.715,(1.6503)+(0.0242)Ser+(-0.0020)Gln+(-0.0089)Ala+(0.0145)Pro+(-0.0353)Tyr+(-0.0082)Val;0.693,0.740,0.781,0.810,0.751,0.831,0.733,0.781,(2.2001)+(0.0035)Gln+(-0.0045)Ala+(-0.0081)Tyr+(-0.1733)Met+(0.0266)Orn+(-0.0070)Lys;0.693,0.733,0.742,0.746,0.715,0.806,0.742,0.752,(0.8583)+(0.0030)Gly+(0.0010)Gln+(-0.0141)Ala+(-0.0973)Cit+(0.0105)Pro+(0.0416)Phe;0.693,0.743,0.718,0.744,0.724,0.811,0.568,0.712,(1.6970)+(0.0264)Ser+(0.0014)Gln+(-0.0744)Cit+(-0.0307)Tyr+(-0.0021)Val+(-0.0133)Lys;0.693,0.739,0.754,0.786,0.735,0.802,0.677,0.750,(3.1052)+(-0.0017)Gly+(0.0152)Thr+(-0.0047)Ala+(-0.0133)Tyr+(-0.2104)Met+(0.0211)Orn;0.693,0.743,0.771,0.798,0.747,0.810,0.723,0.770,(4.6362)+(-0.0690)Asn+(-0.0053)Ala+(-0.0103)Arg+(-0.0291)Tyr+(0.0358)Orn+(-0.0048)Lys;0.693,0.754,0.747,0.746,0.700,0.834,0.785,0.766,(0.5712)+(0.0398)Ser+(-0.0079)Gly+(-0.0092)Thr+(-0.0070)Ala+(0.0266)Orn+(-0.0172)Lys;0.693,0.743,0.789,0.800,0.767,0.833,0.778,0.794,(1.2045)+(0.0041)Gln+(-0.0097)Ala+(-0.0891)Cit+(-0.0148)Lys+(0.0004)Leu+(0.0579)Phe;0.693,0.740,0.749,0.770,0.763,0.765,0.652,0.738,(3.7125)+(-0.0530)Asn+(0.0001)Gly+(0.0218)Thr+(-0.2201)Met+(-0.0047)Lys+(0.0041)Leu;0.693,0.739,0.740,0.783,0.671,0.771,0.753,0.744,(1.3234)+(0.0017)Gln+(-0.0098)Ala+(0.0106)Pro+(-0.0567)Tyr+(-0.0138)Lys+(0.0658)Phe;0.693,0.739,0.737,0.767,0.741,0.769,0.626,0.726,(4.0164)+(-0.0618)Asn+(0.0181)Thr+(-0.0213)Tyr+(-0.1663)Met+(0.0230)Orn+(-0.0060)Lys;0.693,0.738,0.743,0.784,0.698,0.768,0.711,0.740,(1.5913)+(-0.0011)Gly+(-0.0081)Ala+(-0.0213)Arg+(-0.0571)Tyr+(0.0249)Orn+(0.0623)Phe;0.693,0.736,0.756,0.772,0.778,0.

775,0.655,0.745,(4.3021)+(-0.0480)Asn+(0.0039)Gly+(-0.0724)Cit+(0.006
3)Arg+(-0.1535)Met+(0.0050)Leu;0.693,0.743,0.755,0.780,0.708,0.773,0.
776,0.759,(2.3895)+(-0.0937)Asn+(-0.0002)Gly+(0.0052)Gln+(-0.0472)Tyr
+(-0.0134)Lys+(0.0408)Ile;0.693,0.736,0.745,0.758,0.713,0.806,0.733,0
.752,(1.4932)+(0.0029)Gly+(-0.0122)Ala+(-0.0849)Cit+(0.0117)Pro+(-0.0
100)Val+(0.0568)Phe;0.693,0.743,0.747,0.780,0.753,0.751,0.646,0.732,(
3.9595)+(-0.0605)Asn+(-0.0004)Gly+(0.0222)Thr+(-0.0178)Tyr+(-0.1974)M
et+(0.0025)Leu;0.693,0.741,0.715,0.734,0.701,0.764,0.660,0.715,(1.446
1)+(0.0370)Ser+(-0.0074)Gly+(-0.0055)Thr+(-0.0658)Cit+(-0.0468)Tyr+(-
0.0012)Leu;0.693,0.739,0.778,0.808,0.746,0.829,0.732,0.779,(5.4556)+(
-0.1023)Asn+(0.0144)Thr+(-0.0070)Ala+(-0.0123)Arg+(0.0123)Pro+(-0.013
1)Val;0.693,0.738,0.778,0.805,0.736,0.834,0.754,0.782,(5.1276)+(-0.11
16)Asn+(0.0004)Gly+(0.0111)Thr+(-0.0073)Ala+(0.0124)Pro+(-0.0130)Val;
0.693,0.749,0.715,0.739,0.691,0.772,0.663,0.716,(0.8721)+(0.0405)Ser+
(-0.0099)Gly+(-0.0053)Thr+(-0.0250)Arg+(-0.0564)Tyr+(0.0237)Orn;0.693
,0.744,0.766,0.775,0.754,0.831,0.722,0.771,(1.8837)+(0.0037)Gly+(-0.0
095)Ala+(-0.0879)Cit+(-0.0128
)Lys+(0.0003)Leu+(0.0647)Phe;0.693,0.742,0.733,0.750,0.727,0.768,0.67
2,0.729,(3.2408)+(-0.0007)Gly+(0.0076)Pro+(-0.0206)Tyr+(-0.1954)Met+(
0.0256)Orn+(-0.0069)Lys;0.693,0.740,0.743,0.762,0.756,0.775,0.644,0.7
34,(3.5818)+(-0.0555)Asn+(0.0174)Thr+(-0.2058)Met+(0.0199)Orn+(-0.006
5)Lys+(0.0010)Leu;0.693,0.738,0.750,0.781,0.768,0.770,0.618,0.734,(4.
0854)+(-0.0498)Asn+(0.0001)Gly+(0.0239)Thr+(-0.0125)Arg+(-0.2112)Met+
(-0.0016)Lys;0.693,0.742,0.695,0.696,0.665,0.750,0.717,0.707,(-0.9629
)+(0.0410)Ser+(-0.0088)Gly+(0.0043)Pro+(-0.0142)Val+(-0.0223)Lys+(0.0
524)Phe;0.693,0.739,0.725,0.752,0.742,0.764,0.592,0.713,(3.3295)+(-0.
0003)Gly+(0.0211)Thr+(-0.0158)Arg+(0.0073)Pro+(-0.2687)Met+(-0.0032)L
ys;0.693,0.749,0.713,0.714,0.656,0.849,0.730,0.737,(1.1996)+(0.0311)S

er+(-0.0017)Gln+(-0.0066)Ala+(-0.0288)Val+(-0.0163)Lys+(0.0512)Leu;0.692,0.742,0.789,0.807,0.736,0.825,0.827,0.799,(5.5623)+(-0.1033)Asn+(-0.0039)Ala+(-0.0120)Tyr+(-0.0357)Val+(0.0013)Lys+(0.0561)Leu;0.692,0.744,0.745,0.800,0.692,0.776,0.691,0.740,(1.6105)+(0.0127)Thr+(-0.0059)Ala+(-0.0585)Tyr+(-0.0107)Val+(-0.0118)Lys+(0.0892)Phe;0.692,0.743,0.752,0.772,0.763,0.787,0.646,0.742,(4.1935)+(0.0026)Gly+(-0.0614)Cit+(0.0113)Pro+(-0.0083)Val+(-0.2057)Met+(0.0029)Lys;0.692,0.743,0.786,0.801,0.765,0.809,0.772,0.787,(2.9454)+(-0.1025)Asn+(0.0155)Thr+(-0.0083)Ala+(-0.0120)Arg+(-0.0091)Lys+(0.0582)Phe;0.692,0.742,0.773,0.790,0.776,0.785,0.711,0.765,(5.4368)+(-0.0519)Asn+(-0.0523)Cit+(0.0112)Pro+(-0.0110)Val+(-0.1528)Met+(0.0059)Lys;0.692,0.743,0.681,0.646,0.709,0.763,0.654,0.693,(-0.5759)+(0.0382)Ser+(-0.0042)Gly+(-0.0016)Gln+(-0.0228)Thr+(-0.1020)Cit+(0.0391)Orn;0.692,0.741,0.784,0.814,0.764,0.830,0.712,0.780,(2.1433)+(0.0042)Gln+(-0.0046)Ala+(-0.0167)Arg+(-0.0091)Tyr+(-0.1747)Met+(0.0265)Orn;0.692,0.743,0.794,0.815,0.764,0.811,0.791,0.795,(2.5377)+(-0.1002)Asn+(0.0023)Gly+(-0.0071)Ala+(-0.0054)Lys+(-0.0095)Leu+(0.0676)Phe;0.692,0.743,0.755,0.790,0.708,0.803,0.730,0.758,(4.7458)+(-0.0949)Asn+(0.0124)Thr+(-0.0083)Ala+(0.0122)Pro+(-0.0378)Tyr+(-0.0034)Leu;0.692,0.742,0.772,0.810,0.771,0.826,0.632,0.760,(4.2935)+(-0.0011)Gly+(0.0243)Thr+(-0.0029)Ala+(-0.0151)Arg+(-0.0062)Val+(-0.2097)Met;0.692,0.739,0.748,0.783,0.759,0.780,0.614,0.734,(1.7961)+(0.0046)Gln+(0.0213)Thr+(-0.0186)Arg+(-0.2748)Met+(-0.0059)Lys+(0.0061)Leu;0.692,0.736,0.751,0.776,0.754,0.767,0.667,0.741,(3.9593)+(-0.0487)Asn+(0.0004)Gly+(-0.0104)Arg+(-0.0197)Tyr+(-0.1317)Met+(0.0298)Orn;0.692,0.743,0.750,0.782,0.736,0.811,0.650,0.745,(3.2701)+(0.0150)Thr+(-0.0045)Ala+(-0.0107)Tyr+(-0.1935)Met+(0.0242)Orn+(-0.0070)Lys;0.692,0.741,0.771,0.800,0.746,0.804,0.723,0.768,(4.4664)+(-0.0742)Asn+(0.0001)Gly+(-0.0056)Ala+(-0.0122)Arg+(-0.0313)Tyr+(0.0336)Orn;0.6

92,0.751,0.705,0.743,0.633,0.834,0.660,0.717,(1.1045)+(0.0184)Ser+(-0.0091)Ala+(0.0131)Pro+(-0.0406)Tyr+(-0.0104)Val+(0.0196)Orn;0.692,0.751,0.727,0.748,0.665,0.817,0.736,0.741,(-1.5476)+(0.0336)Ser+(-0.0079)Thr+(-0.0085)Ala+(-0.0183)Lys+(-0.0011)Leu+(0.0564)Phe;0.692,0.740,0.792,0.805,0.742,0.831,0.835,0.803,(5.4490)+(-0.1056)Asn+(-0.0043)Ala+(-0.0026)Arg+(-0.0368)Val+(0.0012)Lys+(0.0566)Leu;0.692,0.741,0.762,0.792,0.748,0.778,0.700,0.755,(5.0101)+(-0.0555)Asn+(0.0012)Gly+(0.0115)Pro+(-0.0108)Tyr+(-0.0109)Val+(-0.1333)Met;0.692,0.739,0.747,0.773,0.743,0.772,0.668,0.739,(1.8094)+(-0.0017)Gly+(0.0039)Gln+(0.0157)Thr+(0.0067)Pro+(-0.2841)Met+(-0.0071)Lys;0.692,0.752,0.716,0.743,0.648,0.830,0.702,0.731,(0.8951)+(0.0299)Ser+(-0.0067)Thr+(-0.0090)Ala+(0.0136)Pro+(-0.0292)Tyr+(-0.0117)Lys;0.692,0.736,0.751,0.751,0.697,0.817,0.813,0.770,(0.6715)+(0.0004)Gly+(0.0012)Gln+(-0.0125)Ala+(-0.0245)Arg+(0.0092)Orn+(0.0434)Ile;0.692,0.748,0.772,0.811,0.761,0.830,0.649,0.762,(3.6809)+(0.0199)Thr+(-0.0032)Ala+(-0.0033)Tyr+(-0.0055)Val+(-0.2129)Met+(-0.0012)Lys;0.692,0.743,0.775,0.813,0.763,0.827,0.663,0.767,(2.6059)+(0.0041)Gln+(-0.0180)Arg+(-0.0084)Tyr+(-0.0101)Val+(-0.1789)Met+(0.0327)Orn;0.692,0.742,0.699,0.681,0.664,0.796,0.750,0.723,(1.1971)+(0.0426)Ser+(-0.0087)Gly+(-0.0015)Gln+(-0.0314)Val+(-0.0206)Lys+(0.0475)Leu;0.692,0.741,0.760,0.772,0.772,0.766,0.695,0.751,(4.9716)+(-0.0368)Asn+(-0.0598)Cit+(0.0089)Pro+(-0.0159)Tyr+(-0.1472)Met+(0.0002)Lys;0.692,0.734,0.763,0.795,0.719,0.800,0.747,0.765,(4.6443)+(-0.0697)Asn+(0.0010)Gly+(-0.0082)Ala+(-0.0078)Arg+(0.0127)Pro+(-0.0304)Tyr;0.692,0.741,0.760,0.773,0.772,0.767,0.694,0.751,(4.9912)+(-0.0367)Asn+(-0.0597)Cit+(0.0089)Pro+(-0.0158)Tyr+(-0.1462)Met+(-0.0002)Leu;0.692,0.739,0.768,0.777,0.744,0.822,0.754,0.774,(3.7582)+(-0.0933)Asn+(0.0066)Thr+(-0.0099)Ala+(-0.0152)Arg+(0.0088)Pro+(0.0209)Orn;0.692,0.746,0.684,0.679,0.610,0.793,0.774,0.714,(-1.5597)+(0.0372)Ser+(-0.0

032)Gln+(-0.0192)Thr+(-0.0127)Ala+(0.0117)Pro+(0.0402)Phe;0.692,0.742,0.694,0.720,0.667,0.744,0.644,0.694,(0.9314)+(0.0411)Ser+(-0.0100)Gly+(0.0001)Gln+(-0.0257)Arg+(0.0074)Pro+(-0.0625)Tyr;0.692,0.741,0.826,0.871,0.777,0.847,0.798,0.823,(3.7243)+(-0.1081)Asn+(-0.0012)Gly+(0.0063)Gln+(-0.0033)Ala+(-0.0211)Tyr+(-0.0086)Val;0.692,0.739,0.760,0.785,0.731,0.821,0.711,0.762,(4.3072)+(0.0014)Gly+(-0.0099)Ala+(-0.0749)Cit+(0.0149)Pro+(-0.0293)Tyr+(-0.0046)Val;0.692,0.743,0.789,0.800,0.767,0.832,0.778,0.794,(1.2022)+(0.0041)Gln+(-0.0097)Ala+(-0.0887)Cit+(-0.0004)Arg+(-0.0147)Lys+(0.0582)Phe;0.692,0.738,0.761,0.766,0.780,0.770,0.701,0.754,(4.6805)+(-0.0364)Asn+(-0.0647)Cit+(0.0049)Arg+(0.0081)Pro+(-0.1730)Met+(-0.0013)Lys;0.692,0.737,0.706,0.749,0.674,0.704,0.661,0.697,(1.9132)+(-0.0639)Cit+(0.0069)Pro+(-0.0693)Tyr+(-0.0207)Val+(0.0141)Leu+(0.0769)Phe;0.692,0.747,0.714,0.743,0.633,0.843,0.712,0.733,(0.8020)+(0.0184)Ser+(-0.0072)Ala+(-0.0341)Tyr+(-0.0296)Val+(0.0244)Orn+(0.0416)Leu;0.692,0.742,0.660,0.654,0.630,0.776,0.655,0.679,(-1.2797)+(0.0311)Ser+(0.0028)Pro+(-0.0307)Val+(-0.0247)Lys+(0.0366)Leu+(0.0444)Phe;0.692,0.743,0.772,0.775,0.764,0.828,0.737,0.776,(2.3924)+(0.0109)Thr+(-0.0101)Ala+(-0.0867)Cit+(-0.0004)Arg+(-0.0157)Lys+(0.0607)Phe;0.692,0.741,0.785,0.820,0.729,0.820,0.784,0.788,(3.3930)+(-0.0933)Asn+(0.0050)Gln+(-0.0079)Ala+(0.0115)Pro+(-0.0330)Tyr+(-0.0045)Lys;0.692,0.739,0.758,0.780,0.744,0.802,0.697,0.756,(2.6998)+(-0.0009)Gly+(0.0150)Thr+(-0.0053)Ala+(-0.2377)Met+(0.0178)Orn+(0.0041)Leu;0.692,0.739,0.789,0.825,0.746,0.825,0.760,0.789,(3.2741)+(-0.0970)Asn+(0.0047)Gln+(-0.0054)Ala+(-0.0310)Tyr+(0.0293)Orn+(-0.0078)Lys;0.692,0.742,0.790,0.808,0.737,0.828,0.825,0.799,(5.6113)+(-0.0993)Asn+(-0.0039)Ala+(-0.0014)Arg+(-0.0112)Tyr+(-0.0352)Val+(0.0558)Leu;0.692,0.739,0.785,0.836,0.747,0.797,0.721,0.775,(3.9378)+(-0.1102)Asn+(0.0065)Gln+(-0.0134)Arg+(0.0093)Pro+(-0.0312)Tyr+(-0.0133)Val;0.692,0.746,0.7

23,0.706,0.756,0.805,0.643,0.728,(1.8910)+(-0.1085)Cit+(0.0007)Pro+(-0.0143)Val+(0.0579)Orn+(-0.0202)Lys+(0.0547)Phe;0.692,0.746,0.742,0.736,0.772,0.833,0.632,0.743,(2.9905)+(-0.0003)Gly+(0.0015)Gln+(-0.1085)Cit+(-0.0101)Val+(0.0582)Orn+(-0.0176)Lys;0.692,0.743,0.752,0.749,0.701,0.814,0.820,0.771,(0.7434)+(-0.0022)Thr+(-0.0127)Ala+(-0.0227)Arg+(0.0105)Orn+(0.0403)Ile+(0.0159)Phe;0.692,0.742,0.779,0.813,0.754,0.810,0.717,0.774,(2.5375)+(-0.0025)Gly+(0.0035)Gln+(-0.0113)Tyr+(-0.0100)Val+(-0.1927)Met+(0.0298)Orn;0.692,0.740,0.720,0.743,0.655,0.778,0.757,0.733,(1.2199)+(0.0370)Ser+(-0.0101)Gly+(-0.0048)Thr+(-0.0462)Tyr+(-0.0267)Val+(0.0357)Leu;0.692,0.739,0.799,0.828,0.787,0.830,0.722,0.792,(3.9029)+(-0.1392)Asn+(0.0070)Gln+(0.0130)Thr+(-0.0704)Cit+(-0.0101)Val+(-0.0047)Lys;0.692,0.739,0.752,0.771,0.725,0.814,0.713,0.756,(3.9056)+(0.0018)Gly+(-0.0109)Ala+(-0.0813)Cit+(0.0142)Pro+(-0.0320)Tyr+(0.0015)Leu;0.692,0.743,0.774,0.788,0.780,0.791,0.714,0.768,(5.5311)+(-0.0476)Asn+(-0.0555)Cit+(0.0040)Arg+(0.0107)Pro+(-0.0091)Val+(-0.1429)Met;0.692,0.745,0.697,0.763,0.668,0.706,0.579,0.679,(1.6203)+(0.0133)Thr+(-0.0280)Arg+(0.0075)Pro+(-0.0750)Tyr+(-0.0178)Val+(0.0861)Phe;0.692,0.742,0.739,0.753,0.761,0.769,0.632,0.729,(3.7915)+(0.0031)Gly+(-0.0687)Cit+(0.0092)Pro+(-0.0102)Tyr+(-0.2038)Met+(0.0021)Leu;0.692,0.741,0.796,0.821,0.783,0.841,0.724,0.792,(5.3988)+(-0.0775)Asn+(0.0032)Gly+(-0.0049)Ala+(-0.0661)Cit+(-0.0048)Val+(0.0009)Lys;0.692,0.740,0.776,0.784,0.754,0.843,0.750,0.783,(2.8573)+(0.0017)Gly+(0.0033)Gln+(-0.0115)Ala+(-0.0893)Cit+(0.0122)Pro+(-0.0107)Lys;0.692,0.744,0.743,0.769,0.728,0.782,0.675,0.738,(1.9780)+(0.0035)Gln+(0.0074)Pro+(-0.0182)Tyr+(-0.2182)Met+(0.0208)Orn+(-0.0079)Lys;0.692,0.746,0.733,0.753,0.735,0.772,0.644,0.726,(3.4298)+(-0.0117)Arg+(0.0077)Pro+(-0.0201)Tyr+(-0.1876)Met+(0.0272)Orn+(-0.0048)Lys;0.692,0.741,0.764,0.771,0.750,0.838,0.725,0.771,(3.8074)+(0.0029)Gly+(-0.0114)Ala+(-0.0870)C

it+(0.0022)Arg+(0.0131)Pro+(-0.0089)Lys;0.692,0.741,0.740,0.773,0.743,0.762,0.634,0.728,(3.8064)+(-0.0671)Asn+(0.0173)Thr+(-0.0218)Tyr+(-0.1768)Met+(0.0205)Orn+(-0.0015)Leu;0.692,0.734,0.740,0.742,0.716,0.808,0.738,0.751,(1.1937)+(0.0036)Gly+(-0.0017)Thr+(-0.0139)Ala+(-0.0953)Cit+(0.0109)Pro+(0.0439)Phe;0.692,0.753,0.704,0.732,0.635,0.822,0.689,0.720,(0.8972)+(0.0279)Ser+(-0.0093)Ala+(0.0126)Pro+(-0.0333)Tyr+(-0.0148)Lys+(0.0046)Leu;0.692,0.742,0.777,0.843,0.714,0.790,0.726,0.768,(0.9668)+(0.0030)Gln+(-0.0057)Ala+(-0.0203)Arg+(-0.0525)Tyr+(-0.0119)Val+(0.0853)Phe;0.692,0.740,0.789,0.806,0.760,0.828,0.775,0.792,(1.2929)+(0.0037)Gln+(-0.0088)Ala+(-0.0830)Cit+(-0.0055)Val+(-0.0125)Lys+(0.0644)Phe;0.692,0.743,0.752,0.753,0.695,0.812,0.824,0.771,(0.5153)+(0.0013)Gly+(-0.0012)Thr+(-0.0127)Ala+(-0.0223)Arg+(0.0439)Ile+(0.0190)Phe;0.692,0.745,0.770,0.820,0.771,0.824,0.597,0.753,(2.5907)+(0.0046)Gln+(0.0220)Thr+(-0.0206)Arg+(-0.0062)Tyr+(-0.0075)Val+(-0.2395)Met;0.692,0.743,0.767,0.783,0.744,0.823,0.732,0.771,(4.6662)+(-0.0101)Ala+(-0.0767)Cit+(0.0024)Arg+(0.0142)Pro+(-0.0284)Tyr+(-0.0057)Lys;0.692,0.740,0.733,0.757,0.732,0.779,0.637,0.726,(1.6897)+(0.0031)Gln+(0.0124)Thr+(0.0062)Pro+(-0.2756)Met+(0.0139)Orn+(-0.0087)Lys;0.692,0.735,0.695,0.742,0.671,0.695,0.617,0.681,(1.6249)+(0.0066)Thr+(-0.0684)Cit+(0.0068)Pro+(-0.0755)Tyr+(-0.0145)Val+(0.0834)Phe;0.692,0.747,0.738,0.731,0.774,0.827,0.616,0.737,(3.5641)+(0.0008)Thr+(-0.1030)Cit+(-0.0047)Arg+(-0.0106)Val+(0.0592)Orn+(-0.0153)Lys;0.692,0.743,0.770,0.806,0.751,0.814,0.686,0.764,(2.4076)+(0.0032)Gln+(-0.0081)Tyr+(-0.0089)Val+(-0.1907)Met+(0.0297)Orn+(-0.0037)Lys;0.692,0.741,0.760,0.772,0.742,0.800,0.737,0.763,(5.4581)+(-0.1145)Asn+(0.0037)Gly+(-0.0512)Cit+(-0.0344)Val+(-0.0007)Lys+(0.

0513)Leu;0.692,0.743,0.775,0.787,0.767,0.823,0.724,0.775,(3.4688)+(-0.0050)Ala+(-0.0103)Arg+(-0.1606)Met+(0.0310)Orn+(-0.0051)Lys+(0.0038)

Leu;0.692,0.738,0.745,0.778,0.756,0.792,0.601,0.732,(1.9651)+(0.0041)Gln+(0.0172)Thr+(-0.0198)Arg+(-0.2543)Met+(0.0180)Orn+(-0.0062)Lys;0.692,0.738,0.786,0.816,0.770,0.813,0.723,0.781,(3.5407)+(-0.1335)Asn+(0.0021)Gly+(0.0068)Gln+(-0.0700)Cit+(0.0071)Pro+(-0.0128)Val;0.692,0.737,0.715,0.765,0.684,0.707,0.651,0.702,(1.0642)+(0.0022)Gln+(-0.0707)Cit+(0.0067)Pro+(-0.0729)Tyr+(-0.0140)Val+(0.0813)Phe;0.692,0.742,0.701,0.717,0.677,0.740,0.681,0.703,(3.7116)+(-0.0872)Asn+(0.0118)Thr+(-0.0544)Tyr+(0.0195)Orn+(-0.0161)Lys+(0.0384)Ile;0.692,0.741,0.749,0.793,0.724,0.769,0.672,0.739,(5.5121)+(-0.1162)Asn+(0.0146)Thr+(0.0095)Pro+(-0.0366)Tyr+(-0.0142)Val+(0.0003)Lys;0.692,0.750,0.711,0.723,0.665,0.811,0.702,0.725,(-0.9555)+(0.0335)Ser+(-0.0021)Gln+(-0.0088)Ala+(-0.0199)Lys+(-0.0011)Leu+(0.0579)Phe;0.692,0.749,0.712,0.712,0.630,0.777,0.834,0.738,(-1.9805)+(0.0413)Ser+(-0.0061)Gly+(-0.0203)Thr+(-0.0127)Ala+(0.0112)Pro+(0.0330)Phe;0.692,0.742,0.742,0.780,0.751,0.767,0.605,0.726,(5.1972)+(-0.1040)Asn+(0.0017)Gly+(0.0161)Thr+(-0.0694)Cit+(-0.0376)Tyr+(-0.0013)Leu;0.692,0.740,0.765,0.799,0.745,0.768,0.715,0.757,(5.0037)+(-0.0609)Asn+(0.0118)Pro+(-0.0131)Tyr+(-0.0128)Val+(-0.1421)Met+(0.0063)Lys;0.692,0.739,0.743,0.780,0.710,0.751,0.708,0.737,(2.1432)+(-0.1032)Asn+(0.0052)Gln+(-0.0190)Arg+(-0.0532)Tyr+(0.0162)Orn+(0.0293)Ile;0.692,0.738,0.793,0.826,0.780,0.820,0.713,0.785,(3.7267)+(-0.1467)Asn+(0.0010)Gly+(0.0067)Gln+(0.0113)Thr+(-0.0705)Cit+(-0.0112)Val;0.692,0.743,0.698,0.720,0.700,0.824,0.546,0.697,(0.8127)+(0.0264)Ser+(-0.0262)Arg+(0.0055)Pro+(-0.0134)Val+(0.0255)Orn+(-0.0133)Lys;0.692,0.744,0.689,0.716,0.683,0.774,0.565,0.685,(-1.3556)+(0.0257)Ser+(-0.0367)Arg+(0.0035)Pro+(-0.0215)Val+(0.0188)Orn+(0.0516)Phe;0.692,0.742,0.772,0.783,0.757,0.820,0.739,0.775,(3.2099)+(-0.0001)Gly+(-0.0051)Ala+(-0.1709)Met+(0.0286)Orn+(-0.0073)Lys+(0.0056)Leu;0.692,0.740,0.729,0.739,0.696,0.834,0.693,0.740,(1.3222)+(0.0264)Ser+(-0.0

081)Ala+(-0.0635)Cit+(-0.0107)Arg+(-0.0219)Val+(0.0364)Leu;0.692,0.746,0.727,0.711,0.757,0.809,0.647,0.731,(1.5658)+(0.0010)Gln+(-0.1100)Cit+(-0.0139)Val+(0.0573)Orn+(-0.0209)Lys+(0.0544)Phe;0.692,0.743,0.782,0.828,0.779,0.817,0.642,0.767,(2.7278)+(-0.0026)Gly+(0.0051)Gln+(0.0229)Thr+(-0.0206)Arg+(-0.0081)Val+(-0.2490)Met;0.692,0.739,0.784,0.821,0.728,0.815,0.780,0.786,(3.3928)+(-0.0992)Asn+(0.0048)Gln+(-0.0078)Ala+(0.0119)Pro+(-0.0342)Tyr+(-0.0044)Leu;0.692,0.737,0.778,0.813,0.725,0.815,0.771,0.781,(5.4519)+(-0.0863)Asn+(-0.0066)Ala+(0.0144)Pro+(-0.0254)Tyr+(-0.0111)Val+(0.0036)Lys;0.692,0.733,0.696,0.710,0.711,0.754,0.588,0.691,(2.7506)+(-0.0007)Gly+(-0.0013)Thr+(-0.1047)Cit+(0.0032)Pro+(-0.0626)Tyr+(0.0465)Orn;0.692,0.745,0.790,0.825,0.777,0.838,0.686,0.782,(3.8396)+(-0.1365)Asn+(0.0049)Gln+(0.0101)Thr+(-0.0206)Arg+(-0.0176)Val+(0.0323)Orn;0.692,0.743,0.726,0.767,0.664,0.763,0.717,0.728,(1.7369)+(0.0089)Thr+(-0.0099)Ala+(0.0104)Pro+(-0.0612)Tyr+(-0.0156)Lys+(0.0695)Phe;0.692,0.748,0.754,0.765,0.716,0.835,0.749,0.766,(1.0640)+(0.0404)Ser+(-0.0076)Gly+(-0.0069)Ala+(-0.0157)Arg+(-0.0141)Lys+(0.0048)Leu;0.691,0.745,0.755,0.780,0.754,0.809,0.648,0.748,(3.1643)+(0.0183)Thr+(-0.0051)Ala+(-0.0175)Arg+(-0.2249)Met+(0.0210)Orn+(0.0036)Leu;0.691,0.740,0.746,0.784,0.759,0.766,0.604,0.728,(4.4310)+(-0.0534)Asn+(0.0250)Thr+(-0.0127)Arg+(-0.0164)Tyr+(-0.1835)Met+(-0.0011)Lys;0.691,0.731,0.717,0.711,0.729,0.800,0.646,0.722,(2.5678)+(-0.0004)Gly+(-0.0849)Cit+(-0.0158)Arg+(-0.0310)Val+(0.0515)Orn+(0.0301)Leu;0.691,0.737,0.747,0.775,0.700,0.771,0.755,0.750,(5.4872)+(-0.1173)Asn+(0.0015)Gly+(0.0088)Pro+(-0.0241)Tyr+(-0.0378)Val+(0.0505)Leu;0.691,0.739,0.696,0.713,0.719,0.762,0.558,0.688,(2.9306)+(0.0014)Thr+(-0.0973)Cit+(-0.0110)Arg+(0.0034)Pro+(-0.0609)Tyr+(0.0460)Orn;0.691,0.737,0.735,0.780,0.671,0.755,0.736,0.735,(1.7504)+(-0.0004)Gly+(-0.0103)Ala+(-0.0188)Arg+(0.0115)Pro+(-0.0585)Tyr+(0.0645)Phe;0.691,0.748,0.78

1,0.806,0.756,0.837,0.727,0.781,(4.9462)+(-0.1131)Asn+(0.0098)Thr+(-0.0045)Ala+(-0.0134)Val+(0.0348)Orn+(-0.0034)Lys;0.691,0.746,0.771,0.817,0.761,0.819,0.636,0.758,(2.3120)+(0.0037)Gln+(0.0175)Thr+(-0.0057)Tyr+(-0.0069)Val+(-0.2445)Met+(-0.0028)Lys;0.691,0.734,0.712,0.730,0.628,0.778,0.793,0.732,(1.8250)+(-0.0018)Gly+(-0.0120)Ala+(0.0078)Pro+(-0.0522)Tyr+(0.0084)Orn+(0.0419)Ile;0.691,0.743,0.753,0.772,0.765,0.793,0.648,0.745,(4.3098)+(0.0027)Gly+(-0.0621)Cit+(0.0009)Arg+(0.0111)Pro+(-0.0075)Val+(-0.1972)Met;0.691,0.742,0.784,0.807,0.755,0.799,0.775,0.784,(2.3560)+(-0.1274)Asn+(0.0017)Gly+(0.0101)Thr+(-0.0077)Ala+(-0.0136)Leu+(0.0668)Phe;0.691,0.734,0.757,0.759,0.727,0.804,0.783,0.768,(1.1083)+(0.0019)Gln+(-0.0015)Thr+(-0.0138)Ala+(-0.0923)Cit+(0.0102)Pro+(0.0384)Phe;0.691,0.734,0.762,0.766,0.735,0.812,0.775,0.772,(1.0869)+(0.0024)Gln+(-0.0136)Ala+(-0.0861)Cit+(-0.0089)Arg+(0.0101)Pro+(0.0403)Phe;0.691,0.741,0.781,0.829,0.738,0.788,0.737,0.773,(3.8808)+(-0.1224)Asn+(0.0055)Gln+(0.0093)Pro+(-0.0331)Tyr+(-0.0140)Val+(0.0011)Lys;0.691,0.734,0.675,0.663,0.677,0.793,0.620,0.688,(1.0669)+(0.0305)Ser+(-0.0673)Cit+(0.0046)Pro+(-0.0251)Val+(-0.0209)Lys+(0.0388)Leu;0.691,0.732,0.715,0.709,0.728,0.802,0.642,0.720,(2.4950)+(0.0000)Gln+(-0.0854)Cit+(-0.0159)Arg+(-0.0309)Val+(0.0514)Orn+(0.0301)Leu;0.691,0.741,0.745,0.781,0.714,0.805,0.671,0.743,(2.2348)+(0.0382)Ser+(-0.0099)Gly+(0.0018)Thr+(-0.0232)Arg+(-0.0403)Tyr+(-0.0086)Val;0.691,0.741,0.733,0.769,0.745,0.762,0.591,0.717,(4.1006)+(-0.0570)Asn+(0.0206)Thr+(-0.0156)Arg+(-0.0228)Tyr+(-0.1740)Met+(0.0224)Orn;0.691,0.745,0.772,0.821,0.774,0.824,0.605,0.756,(2.4875)+(0.0046)Gln+(0.0216)Thr+(-0.0207)Arg+(-0.0079)Val+(-0.2497)Met+(0.0006)Lys;0.691,0.744,0.719,0.754,0.730,0.761,0.572,0.704,(3.5941)+(0.0221)Thr+(-0.0164)Arg+(0.0085)Pro+(-0.0197)Tyr+(-0.2433)Met+(-0.0026)Lys;0.691,0.741,0.716,0.737,0.648,0.809,0.734,0.732,(-1.0985)+(0.0316)Ser+(-0.0027)Gln+(-0.0109)Thr

+(-0.0079)Ala+(-0.0120)Val+(0.0643)Phe;0.691,0.755,0.728,0.751,0.693,0.808,0.685,0.734,(1.8864)+(0.0367)Ser+(-0.0109)Gly+(-0.0433)Tyr+(-0.0080)Val+(0.0313)Orn+(-0.0148)Lys;0.691,0.744,0.766,0.778,0.745,0.819,0.738,0.770,(4.6191)+(-0.0104)Ala+(-0.0758)Cit+(0.0139)Pro+(-0.0286)Tyr+(-0.0063)Lys+(0.0042)Leu;0.691,0.739,0.744,0.770,0.740,0.762,0.669,0.735,(1.4317)+(-0.0015)Gly+(0.0035)Gln+(0.0141)Thr+(0.0067)Pro+(-0.3040)Met+(-0.0008)Leu;0.691,0.738,0.719,0.750,0.719,0.739,0.623,0.708,(2.9655)+(-0.0012)Gly+(0.0178)Thr+(0.0081)Pro+(-0.0210)Tyr+(-0.2626)Met+(0.0005)Leu;0.691,0.743,0.767,0.804,0.744,0.803,0.690,0.760,(1.6906)+(0.0033)Gln+(0.0169)Thr+(-0.0048)Ala+(-0.0078)Tyr+(-0.2532)Met+(0.0075)Leu;0.691,0.741,0.715,0.738,0.699,0.764,0.652,0.713,(1.4116)+(0.0341)Ser+(-0.0079)Gly+(0.0006)Gln+(-0.0684)Cit+(-0.0520)Tyr+(-0.0021)Leu;0.691,0.740,0.786,0.813,0.772,0.812,0.724,0.780,(3.8810)+(-0.1477)Asn+(0.0065)Gln+(0.0102)Thr+(-0.0681)Cit+(0.0063)Pro+(-0.0140)Val;0.691,0.737,0.758,0.773,0.763,0.781,0.694,0.753,(3.6307)+(-0.0485)Asn+(0.0005)Gly+(-0.1608)Met+(0.0278)Orn+(-0.0049)Lys+(-0.0014)Leu;0.691,0.741,0.685,0.681,0.624,0.839,0.715,0.714,(1.0679)+(0.0245)Ser+(-0.0042)Gln+(-0.0084)Ala+(-0.0340)Val+(0.0252)Orn+(0.0469)Leu;0.691,0.741,0.683,0.708,0.696,0.720,0.562,0.672,(1.3819)+(0.0004)Gly+(-0.0982)Cit+(-0.0108)Arg+(-0.0750)Tyr+(0.0427)Orn+(0.0543)Phe;0.691,0.741,0.749,0.783,0.746,0.811,0.619,0.740,(3.4732)+(0.0182)Thr+(-0.0045)Ala+(-0.0182)Arg+(-0.0125)Tyr+(-0.1989)Met+(0.0240)Orn;0.691,0.740,0.770,0.791,0.742,0.823,0.732,0.772,(4.7853)+(-0.0095)Ala+(-0.0711)Cit+(0.0147)Pro+(-0.0276)Tyr+(-0.0039)Val+(-0.0036)Lys;0.691,0.739,0.720,0.748,0.640,0.810,0.747,0.736,(2.6929)+(-0.0090)Ala+(0.0114)Pro+(-0.0396)Tyr+(-0.0294)Val+(0.0271)Orn+(0.0363)Leu;0.691,0.733,0.743,0.752,0.718,0.807,0.725,0.750,(1.2902)+(0.0032)Gly+(-0.0133)Ala+(-0.0932)Cit+(0.0113)Pro+(-0.0086)Leu+(0.0517)Phe;0.691,0.732,0.760,0.769,0.730,0.808,0.

767,0.768,(1.2115)+(0.0018)Gln+(-0.0131)Ala+(-0.0904)Cit+(0.0107)Pro+(-0.0093)Leu+(0.0474)Phe;0.691,0.743,0.738,0.793,0.655,0.772,0.738,0.740,(1.1271)+(0.0072)Thr+(-0.0070)Ala+(-0.0567)Tyr+(-0.0250)Val+(0.0266)Leu+(0.0742)Phe;0.691,0.732,0.705,0.725,0.619,0.780,0.779,0.726,(1.5106)+(-0.0001)Gln+(-0.0121)Ala+(0.0077)Pro+(-0.0511)Tyr+(0.0071)Orn+(0.0430)Ile;0.691,0.740,0.739,0.790,0.668,0.761,0.738,0.739,(1.9843)+(-0.0083)Ala+(0.0121)Pro+(-0.0548)Tyr+(-0.0113)Val+(-0.0078)Lys+(0.0788)Phe;0.691,0.736,0.770,0.820,0.717,0.787,0.736,0.765,(0.9079)+(0.0034)Gln+(-0.0070)Ala+(-0.0161)Arg+(-0.0519)Tyr+(-0.0098)Lys+(0.0715)Phe;0.691,0.743,0.770,0.811,0.771,0.827,0.620,0.757,(4.0787)+(0.0235)Thr+(-0.0029)Ala+(-0.0160)Arg+(-0.0064)Val+(-0.2140)Met+(0.0017)Lys;0.691,0.736,0.722,0.766,0.697,0.713,0.665,0.710,(1.8030)+(-0.0030)Gly+(-0.0707)Tyr+(0.0301)Orn+(-0.0151)Lys+(-0.0153)Leu+(0.0754)Phe;0.691,0.743,0.708,0.700,0.733,0.750,0.644,0.707,(2.6752)+(-0.1230)Asn+(0.0055)Gly+(0.0068)Thr+(-0.0842)Cit+(-0.0041)Arg+(0.0324)Ile;0.691,0.739,0.674,0.680,0.665,0.807,0.583,0.683,(1.0083)+(0.0262)Ser+(-0.0029)Gln+(-0.0287)Arg+(-0.0352)Val+(0.0279)Orn+(0.0384)Leu;0.691,0.738,0.760,0.766,0.778,0.767,0.701,0.753,(4.6180)+(-0.0371)Asn+(-0.0645)Cit+(0.0042)Arg+(0.0081)Pro+(-0.1764)Met+(-0.0001)Leu;0.691,0.739,0.675,0.684,0.611,0.789,0.702,0.696,(-0.5164)+(0.0286)Ser+(-0.0043)Gln+(-0.0113)Ala+(0.0116)Pro+(-0.0150)Val+(0.0579)Phe;0.691,0.735,0.790,0.827,0.741,0.815,0.775,0.789,(3.1259)+(-0.1055)Asn+(-0.0013)Gly+(0.0047)Gln+(-0.0059)Ala+(-0.0355)Tyr+(0.0257)Orn;0.691,0.745,0.741,0.779,0.753,0.769,0.598,0.725,(5.1961)+(-0.1020)Asn+(0.0017)Gly+(0.0170)Thr+(-0.0673)Cit+(-0.0040)Arg+(-0.0384)Tyr;0.691,0.743,0.743,0.774,0.744,0.762,0.644,0.731,(4.9657)+(-0.0832)Asn+(0.0031)Gly+(-0.0671)Cit+(0.0077)Pro+(-0.0348)Tyr+(-0.0048)Leu;0.691,0.738,0.770,0.781,0.757,0.822,0.732,0.773,(2.3484)+(0.0107)Thr+(-0.0090)Ala+(-0.0804)Cit+(-0.0064)Val+(-0.0

135)Lys+(0.0682)Phe;0.691,0.738,0.747,0.745,0.695,0.818,0.811,0.767,(1.0567)+(0.0010)Gly+(-0.0028)Thr+(-0.0122)Ala+(-0.0221)Arg+(0.0116)Orn+(0.0442)Ile;0.691,0.737,0.776,0.783,0.756,0.842,0.753,0.783,(3.0293)+(0.0033)Gln+(0.0047)Thr+(-0.0116)Ala+(-0.0885)Cit+(0.0117)Pro+(-0.0121)Lys;0.691,0.737,0.728,0.735,0.691,0.826,0.718,0.742,(1.0920)+(0.0271)Ser+(-0.0054)Thr+(-0.0084)Ala+(-0.0721)Cit+(-0.0206)Val+(0.0356)Leu;0.691,0.736,0.770,0.796,0.
741,0.806,0.738,0.770,(4.5547)+(-0.0750)Asn+(-0.0004)Gly+(-0.0054)Ala+(-0.0297)Tyr+(0.0341)Orn+(-0.0067)Lys;0.691,0.743,0.722,0.770,0.676,0.685,0.718,0.712,(1.0556)+(-0.1451)Asn+(0.0041)Gln+(0.0117)Thr+(-0.0758)Tyr+(0.0194)Ile+(0.0574)Phe;0.691,0.742,0.728,0.765,0.720,0.755,0.624,0.716,(1.6488)+(0.0031)Gln+(0.0145)Thr+(0.0077)Pro+(-0.0185)Tyr+(-0.2803)Met+(0.0002)Leu;0.691,0.741,0.694,0.692,0.690,0.764,0.655,0.700,(3.0445)+(0.0026)Gly+(-0.0834)Cit+(0.0050)Arg+(-0.0454)Tyr+(-0.0192)Lys+(0.0543)Ile;0.691,0.740,0.728,0.781,0.692,0.687,0.691,0.713,(1.2412)+(-0.1479)Asn+(0.0040)Gln+(0.0115)Thr+(-0.0744)Tyr+(0.0106)Orn+(0.0659)Phe;0.691,0.737,0.733,0.790,0.668,0.751,0.702,0.728,(0.6656)+(0.0001)Gln+(-0.0074)Ala+(-0.0616)Tyr+(0.0221)Orn+(-0.0153)Leu+(0.0749)Phe;0.691,0.739,0.680,0.703,0.692,0.719,0.565,0.670,(1.4375)+(-0.0968)Cit+(-0.0111)Arg+(0.0022)Pro+(-0.0772)Tyr+(0.0417)Orn+(0.0528)Phe;0.691,0.734,0.732,0.729,0.693,0.820,0.756,0.750,(1.2746)+(0.0304)Ser+(-0.0047)Gly+(-0.0085)Ala+(-0.0676)Cit+(-0.0221)Val+(0.0357)Leu;0.691,0.743,0.747,0.779,0.716,0.807,0.685,0.746,(2.2592)+(0.0409)Ser+(-0.0098)Gly+(-0.0185)Arg+(-0.0341)Tyr+(-0.0065)Val+(-0.0074)Lys;0.691,0.739,0.757,0.790,0.757,0.802,0.641,0.747,(3.9003)+(-0.0146)Arg+(-0.0093)Tyr+(-0.0104)Val+(-0.1568)Met+(0.0375)Orn+(0.0004)Lys;0.691,0.740,0.688,0.658,0.708,0.768,0.668,0.700,(-1.0649)+(0.0373)Ser+(-0.0045)Gly+(-0.0241)Thr+(-0.1031)Cit+(0.0002)Pro+(0.0373)Orn;0.691,0.744,0.695,0

.721,0.668,0.744,0.651,0.696,(0.8654)+(0.0425)Ser+(-0.0097)Gly+(-0.0036)Thr+(-0.0240)Arg+(0.0077)Pro+(-0.0599)Tyr;0.691,0.735,0.712,0.731,0.722,0.760,0.608,0.705,(2.4207)+(-0.0013)Gly+(0.0014)Gln+(-0.0019)Thr+(-0.1063)Cit+(-0.0602)Tyr+(0.0467)Orn;0.691,0.747,0.711,0.737,0.666,0.775,0.689,0.717,(1.8255)+(0.0396)Ser+(-0.0107)Gly+(0.0093)Pro+(-0.0470)Tyr+(-0.0084)Val+(-0.0122)Lys;0.691,0.745,0.675,0.664,0.575,0.803,0.818,0.715,(-2.7097)+(0.0242)Ser+(-0.0156)Ala+(0.0051)Pro+(-0.0083)Orn+(0.0431)Ile+(0.0105)Phe;0.691,0.742,0.710,0.716,0.706,0.755,0.672,0.712,(-0.9642)+(0.0442)Ser+(-0.0080)Gly+(-0.0244)Arg+(-0.0195)Lys+(-0.0118)Leu+(0.0529)Phe;0.691,0.745,0.696,0.710,0.645,0.800,0.694,0.712,(-0.6744)+(0.0258)Ser+(-0.0043)Gln+(-0.0089)Ala+(-0.0157)Val+(0.0207)Orn+(0.0614)Phe;0.691,0.742,0.671,0.692,0.607,0.807,0.650,0.689,(0.9625)+(0.0250)Ser+(-0.0030)Gln+(-0.0102)Ala+(0.0123)Pro+(-0.0448)Tyr+(0.0148)Orn;0.691,0.741,0.739,0.761,0.734,0.763,0.670,0.732,(1.3399)+(-0.0016)Gly+(0.0031)Gln+(0.0125)Thr+(0.0061)Pro+(-0.3038)Met+(0.0092)Orn;0.691,0.736,0.774,0.799,0.730,0.851,0.747,0.782,(1.4784)+(0.0369)Ser+(-0.0075)Gly+(-0.0030)Thr+(-0.0057)Ala+(-0.0214)Arg+(-0.0079)Val;0.691,0.734,0.700,0.718,0.711,0.753,0.594,0.694,(2.4014)+(-0.0014)Gly+(0.0011)Gln+(-0.1053)Cit+(0.0029)Pro+(-0.0650)Tyr+(0.0446)Orn;0.691,0.750,0.736,0.733,0.695,0.830,0.759,0.754,(0.9286)+(0.0378)Ser+(-0.0080)Gly+(-0.0009)Gln+(-0.0074)Ala+(0.0239)Orn+(-0.0192)Lys;0.691,0.740,0.744,0.807,0.675,0.758,0.710,0.737,(0.8947)+(0.0004)Gln+(0.0061)Thr+(-0.0064)Ala+(-0.0595)Tyr+(-0.0127)Val+(0.0842)Phe;0.691,0.741,0.793,0.815,0.786,0.837,0.719,0.789,(5.8749)+(-0.0990)Asn+(0.0171)Thr+(-0.0055)Ala+(-0.0649)Cit+(-0.0017)Arg+(-0.0066)Val;0.691,0.743,0.759,0.787,0.760,0.801,0.655,0.751,(3.3634)+(-0.0003)Gly+(0.0233)Thr+(-0.0047)Ala+(-0.0150)Arg+(-0.2380)Met+(0.0075)Leu;0.691,0.739,0.748,0.778,0.767,0.766,0.616,0.732,(3.8732)+(-0.0497)Asn+(0.0003)Gly+(0.0237)Th

r+(-0.0132)Arg+(-0.2217)Met+(0.0020)Leu;0.691,0.737,0.753,0.784,0.762,0.782,0.631,0.740,(1.8305)+(-0.0021)Gly+(0.0043)Gln+(0.0180)Thr+(-0.0220)Arg+(-0.2749)Met+(0.0149)Orn;0.691,0.742,0.742,0.757,0.763,0.774,0.633,0.732,(3.9627)+(0.0030)Gly+(-0.0677)Cit+(0.0095)Pro+(-0.0098)Tyr+(-0.1952)Met+(-0.0012)Lys;0.691,0.740,0.748,0.808,0.682,0.749,0.728,0.742,(1.4923)+(-0.0028)Gly+(0.0090)Thr+(-0.0062)Ala+(-0.0628)Tyr+(-0.0128)Val+(0.0849)Phe;0.691,0.743,0.753,0.778,0.706,0.771,0.772,0.757,(2.3725)+(-0.0943)Asn+(0.0051)Gln+(0.0002)Pro+(-0.0472)Tyr+(-0.0134)Lys+(0.0406)Ile;0.691,0.737,0.772,0.812,0.741,0.783,0.721,0.764,(2.5683)+(-0.0015)Gly+(0.0045)Gln+(0.0111)Pro+(-0.0116)Tyr+(-0.0100)Val+(-0.2187)Met;0.691,0.742,0.752,0.753,0.728,0.803,0.764,0.762,(1.6750)+(-0.0114)Ala+(-0.0175)Arg+(0.0083)Pro+(0.0226)Orn+(-0.0148)Lys+(0.0387)Phe;0.691,0.739,0.773,0.792,0.763,0.815,0.715,0.771,(3.2813)+(0.0001)Gly+(-0.0050)Ala+(-0.0126)Arg+(-0.1703)Met+(0.0292)Orn+(0.0016)Leu;0.691,0.739,0.761,0.791,0.758,0.803,0.660,0.753,(4.1148)+(-0.0012)Gly+(-0.0142)Arg+(-0.0110)Tyr+(-0.0105)Val+(-0.1509)Met+(0.0386)Orn;0.691,0.739,0.732,0.782,0.697,0.727,0.677,0.721,(1.0418)+(0.0024)Gln+(-0.0687)Cit+(-0.0670)Tyr+(-0.0193)Val+(0.0141)Leu+(0.0789)Phe;0.691,0.737,0.800,0.820,0.775,0.800,0.796,0.798,(2.9753)+(-0.0880)Asn+(-0.0068)Ala+(-0.0088)Arg+(-0.0035)Lys+(-0.0106)Leu+(0.0671)Phe;0.691,0.742,0.737,0.750,0.669,0.807,0.790,0.754,(-1.1981)+(0.0287)Ser+(-0.0071)Gly+(-0.0091)Ala+(-0.0153)Val+(0.0171)Orn+(0.0507)Phe;0.690,0.741,0.789,0.820,0.777,0.832,0.700,0.782,(2.6499)+(-0.0021)Gly+(0.0045)Gln+(-0.0180)Arg+(-0.0106)Val+(-0.1908)Met+(0.0327)Orn;0.690,0.736,0.754,0.776,0.751,0.771,0.685,0.746,(4.0434)+(-0.0521)Asn+(-0.0191)Tyr+(-0.1249)Met+(0.0307)Orn+(-0.0046)Lys+(-0.0016)Leu;0.690,0.741,0.658,0.613,0.674,0.748,0.681,0.679,(-2.1377)+(0.0390)Ser+(-0.0036)Gly+(-0.0266)Thr+(-0.1027)Cit+(0.0302)Orn+(0.0234)Ile;0.690,0.739,0.765,0.817,0.720,0.

772,0.717,0.757,(1.9720)+(-0.0062)Ala+(-0.0136)Arg+(-0.0505)Tyr+(-0.0059)Lys+(-0.0088)Leu+(0.0816)Phe;0.690,0.736,0.736,0.790,0.657,0.745,0.748,0.735,(1.8384)+(-0.0018)Gly+(-0.0085)Ala+(0.0122)Pro+(-0.0594)Tyr+(-0.0132)Val+(0.0759)Phe;0.690,0.744,0.791,0.808,0.765,0.806,0.787,0.792,(2.8926)+(-0.1134)Asn+(0.0135)Thr+(-0.0076)Ala+(-0.0085)Lys+(-0.0101)Leu+(0.0666)Phe;0.690,0.745,0.736,0.728,0.767,0.831,0.626,0.738,(2.9607)+(0.0013)Gln+(-0.1077)Cit+(0.0020)Pro+(-0.0107)Val+(0.0572)Orn+(-0.0176)Lys;0.690,0.743,0.704,0.718,0.682,0.823,0.626,0.712,(0.1815)+(0.0264)Ser+(-0.0095)Thr+(-0.0277)Arg+(-0.0325)Val+(0.0281)Orn+(0.0346)Leu;0.690,0.741,0.768,0.810,0.769,0.825,0.614,0.755,(4.1873)+(0.0239)Thr+(-0.0029)Ala+(-0.0154)Arg+(-0.0041)Tyr+(-0.0059)Val+(-0.2048)Met;0.690,0.741,0.631,0.579,0.666,0.741,0.616,0.650,(-1.5848)+(0.0371)Ser+(-0.0027)Gln+(-0.0249)Thr+(-0.1042)Cit+(0.0325)Orn+(0.0267)Ile;0.690,0.737,0.755,0.781,0.757,0.771,0.670,0.745,(4.2141)+(-0.0508)Asn+(-0.0107)Arg+(-0.0200)Tyr+(-0.1184)Met+(0.0321)Orn+(-0.0044)Leu;0.690,0.743,0.692,0.721,0.699,0.729,0.575,0.681,(0.8074)+(0.0019)Gln+(-0.0984)Cit+(-0.0131)Arg+(-0.0768)Tyr+(0.0405)Orn+(0.0544)Phe;0.690,0.735,0.801,0.837,0.781,0.795,0.752,0.791,(2.4363)+(-0.0690)Asn+(-0.0005)Gly+(0.0066)Gln+(-0.0125)Tyr+(-0.1515)Met+(-0.0025)Lys;0.690,0.735,0.803,0.831,0.790,0.800,0.757,0.795,(2.1221)+(-0.0654)Asn+(-0.0001)Gly+(0.0064)Gln+(-0.1788)Met+(-0.0034)Lys+(0.0017)Leu;0.690,0.735,0.718,0.722,0.684,0.824,0.703,0.733,(1.3462)+(0.0260)Ser+(-0.0009)Gln+(-0.0086)Ala+(-0.0725)Cit+(-0.0219)Val+(0.0371)Leu;0.690,0.744,0.707,0.720,0.625,0.815,0.762,0.731,(-1.4355)+(0.0198)Ser+(-0.0100)Ala+(-0.0315)Val+(0.0175)Orn+(0.0339)Leu+(0.0431)Phe;0.690,0.740,0.819,0.856,0.792,0.831,0.771,0.813,(2.6373)+(-0.0644)Asn+(0.0069)Gln+(-0.0035)Ala+(-0.0101)Arg+(-0.0083)Tyr+(-0.1255)Met;0.690,0.737,0.753,0.758,0.773,0.772,0.686,0.747,(4.0998)+(-0.0658)Cit+(0.0034)Arg+(0.0082)Pro+(-0.207

3)Met+(-0.0030)Lys+(0.0026)Leu;0.690,0.746,0.733,0.755,0.660,0.815,0.769,0.750,(-1.8037)+(0.0275)Ser+(-0.0161)Thr+(-0.0085)Ala+(-0.0139)Val+(0.0223)Orn+(0.0566)Phe;0.690,0.744,0.798,0.806,0.799,0.816,0.759,0.795,(5.1303)+(-0.0319)Asn+(-0.0053)Ala+(-0.0650)Cit+(-0.1092)Met+(-0.0010)Lys+(0.0091)Leu;0.690,0.745,0.632,0.591,0.622,0.758,0.670,0.660,(-2.0891)+(0.0385)Ser+(-0.0162)Thr+(-0.0029)Pro+(0.0126)Orn+(-0.0286)Lys+(0.0499)Ile;0.690,0.741,0.612,0.661,0.582,0.652,0.515,0.603,(-1.0397)+(0.0285)Ser+(-0.0037)Gln+(0.0069)Pro+(-0.0819)Tyr+(-0.0201)Leu+(0.0821)Phe;0.690,0.740,0.758,0.775,0.748,0.790,0.710,0.756,(1.7527)+(-0.0012)Gly+(0.0039)Gln+(0.0064)Pro+(-0.2439)Met+(0.0195)Orn+(-0.0083)Lys;0.690,0.740,0.761,0.767,0.749,0.837,0.714,0.767,(3.8326)+(0.0023)Gly+(0.0060)Thr+(-0.0116)Ala+(-0.0874)Cit+(0.0126)Pro+(-0.0104)Lys;0.690,0.738,0.761,0.778,0.771,0.784,0.682,0.754,(3.8994)+(-0.0434)Asn+(-0.0094)Arg+(-0.1529)Met+(0.0303)Orn+(-0.0033)Lys+(-0.0028)Leu;0.690,0.736,0.784,0.807,0.754,0.820,0.759,0.785,(1.7352)+(-0.0011)Gly+(0.0035)Gln+(-0.0051)Ala+(-0.2102)Met+(0.0210)Orn+(0.0026)Leu;0.690,0.741,0.703,0.720,0.643,0.772,0.731,0.717,(1.7104)+(0.0371)Ser+(-0.0099)Gly+(-0.0017)Gln+(-0.0477)Tyr+(-0.0279)Val+(0.0380)Leu;0.690,0.740,0.801,0.838,0.787,0.807,0.729,0.790,(3.2590)+(-0.1096)Asn+(0.0080)Gln+(-0.0724)Cit+(-0.0036)Arg+(-0.0324)Tyr+(-0.0026)Leu;0.690,0.740,0.737,0.748,0.740,0.776,0.674,0.734,(2.8818)+(-0.0001)Gly+(0.0069)Pro+(-0.2257)Met+(0.0234)Orn+(-0.0067)Lys+(-0.0013)Leu;0.690,0.733,0.752,0.780,0.677,0.801,0.796,0.764,(1.5677)+(-0.0009)Gly+(0.0027)Gln+(-0.0099)Ala+(-0.0199)Arg+(-0.0432)Tyr+(0.0512)Ile;0.690,0.743,0.774,0.777,0.769,0.785,0.773,0.776,(1.5353)+(-0.1334)Asn+(0.0072)Gln+(-0.0828)Cit+(-0.0063)Arg+(-0.0028)Pro+(0.0308)Ile;0.690,0.738,0.716,0.771,0.644,0.743,0.701,0.715,(0.9042)+(-0.0097)Ala+(0.0110)Pro+(-0.0653)Tyr+(0.0184)Orn+(-0.0177)Leu+(0.0712)Phe;0.690,0.732,0.719,0.741,0.629,0.784,0.80

5,0.740,(1.6737)+(-0.0018)Gly+(0.0007)Gln+(-0.0120)Ala+(0.0079)Pro+(-0.0513)Tyr+(0.0443)Ile;0.690,0.748,0.714,0.728,0.665,0.834,0.692,0.730,(0.7648)+(0.0246)Ser+(-0.0095)Ala+(0.0112)Pro+(-0.0087)Val+(0.0214)Orn+(-0.0161)Lys;0.690,0.746,0.752,0.782,0.764,0.781,0.631,0.739,(5.6177)+(-0.0921)Asn+(0.0195)Thr+(-0.0681)Cit+(-0.0378)Tyr+(-0.0073)Lys+(0.0019)Leu;0.690,0.735,0.774,0.797,0.785,0.786,0.680,0.762,(1.8840)+(0.0012)Gly+(0.0060)Gln+(-0.0739)Cit+(-0.0032)Arg+(-0.2242)Met+(0.0052)Leu;0.690,0.735,0.795,0.838,0.746,0.816,0.768,0.792,(3.4007)+(-0.1202)Asn+(-0.0019)Gly+(0.0052)Gln+(0.0134)Thr+(-0.0056)Ala+(-0.0364)Tyr;0.690,0.742,0.791,0.819,0.769,0.824,0.740,0.788,(3.7088)+(-0.1484)Asn+(-0.0011)Gly+(0.0042)Gln+(0.0071)Thr+(-0.0176)Val+(0.0296)Orn;0.690,0.741,0.821,0.865,0.799,0.825,0.748,0.809,(2.9952)+(-0.0805)Asn+(0.0072)Gln+(-0.0121)Arg+(-0.0099)Val+(-0.1353)Met+(0.0050)Lys;0.690,0.746,0.723,0.705,0.756,0.807,0.641,0.727,(1.8694)+(0.0013)Thr+(-0.1092)Cit+(-0.0142)Val+(0.0580)Orn+(-0.0207)Lys+(0.0553)Phe;0.690,0.744,0.741,0.769,0.744,0.763,0.643,0.730,(4.9132)+(-0.0788)Asn+(0.0033)Gly+(-0.0681)Cit+(0.0071)Pro+(-0.0340)Tyr+(-0.0035)Lys;0.690,0.741,0.770,0.826,0.705,0.787,0.747,0.766,(1.1176)+(0.0021)Gln+(-0.0058)Ala+(-0.0522)Tyr+(-0.0099)Val+(-0.0090)Lys+(0.0831)Phe;0.690,0.738,0.747,0.775,0.765,0.766,0.621,0.732,(3.9664)+(-0.0470)Asn+(0.0243)Thr+(-0.0122)Arg+(-0.2192)Met+(-0.0028)Lys+(0.0033)Leu;0.690,0.741,0.726,0.780,0.690,0.675,0.696,0.710,(1.2313)+(-0.1489)Asn+(0.0043)Gln+(0.0127)Thr+(0.0027)Pro+(-0.0760)Tyr+(0.0677)Phe;0.690,0.735,0.777,0.805,0.788,0.799,0.666,0.764,(5.1644)+(-0.0576)Asn+(0.0032)Gly+(-0.0586)Cit+(-0.0065)Val+(-0.1159)Met+(0.0045)Lys;0.690,0.737,0.771,0.780,0.740,0.821,0.776,0.779,(4.1462)+(-0.0852)Asn+(-0.0090)Ala+(0.0099)Pro+(0.0267)Orn+(-0.0074)Lys+(-0.0061)Leu;0.690,0.747,0.750,0.743,0.780,0.762,0.694,0.745,(3.3919)+(-0.1119)Asn+(0.0154

)Thr+(-0.0779)Cit+(0.0003)Pro+(-0.0149)Lys+(0.0527)Phe;0.690,0.744,0.797,0.807,0.797,0.814,0.758,0.794,(5.1256)+(-0.0333)Asn+(-0.0053)Ala+(-0.0649)Cit+(-0.0019)Tyr+(-0.1079)Met+(0.0086)Leu;0.690,0.742,0.736,0.759,0.675,0.857,0.714,0.751,(0.7893)+(0.0272)Ser+(-0.0024)Thr+(-0.0069)Ala+(-0.0210)Arg+(-0.0280)Val+(0.0413)Leu;0.690,0.741,0.686,0.735,0.668,0.788,0.520,0.678,(1.5546)+(0.0267)Ser+(-0.0005)Gln+(-0.0258)Arg+(0.0099)Pro+(-0.0422)Tyr+(-0.0112)Val;0.690,0.736,0.781,0.788,0.760,0.841,0.766,0.789,(2.9440)+(0.0037)Gln+(-0.0114)Ala+(-0.0862)Cit+(-0.0007)Arg+(0.0119)Pro+(-0.0106)Lys;0.690,0.740,0.718,0.747,0.629,0.770,0.788,0.734,(0.5186)+(-0.0004)Thr+(-0.0110)Ala+(-0.0590)Tyr+(0.0065)Orn+(0.0414)Ile+(0.0385)Phe;0.690,0.735,0.710,0.753,0.684,0.676,0.679,0.698,(2.2384)+(-0.1110)Asn+(0.0009)Gly+(0.0035)Pro+(-0.0695)Tyr+(0.0182)Orn+(0.0606)Phe;0.690,0.735,0.643,0.604,0.680,0.739,0.598,0.655,(-1.6703)+(0.0362)Ser+(-0.0026)Gln+(-0.0244)Thr+(-0.1073)Cit+(0.0370)Orn+(0.0256)Phe;0.690,0.740,0.741,0.778,0.756,0.756,0.605,0.724,(4.2300)+(-0.0526)Asn+(0.0251)Thr+(-0.0132)Arg+(-0.0174)Tyr+(-0.1939)Met+(0.0029)Leu;0.690,0.738,0.746,0.804,0.720,0.738,0.655,0.729,(0.8582)+(0.0038)Gln+(-0.0619)Cit+(-0.0132)Arg+(-0.0654)Tyr+(-0.0128)Val+(0.0870)Phe;0.690,0.735,0.692,0.671,0.691,0.789,0.681,0.708,(0.3820)+(0.0251)Ser+(-0.0063)Gly+(-0.0923)Cit+(-0.0303)Val+(0.0417)Orn+(0.0289)Leu;0.690,0.736,0.759,0.779,0.780,0.778,0.648,0.746,(4.5205)+(-0.0447)Asn+(0.0037)Gly+(-0.0665)Cit+(-0.0045)Tyr+(-0.1388)Met+(0.0049)Leu;0.690,0.753,0.753,0.777,0.716,0.848,0.696,0.759,(0.0949)+(0.0285)Ser+(-0.0107)Thr+(-0.0079)Ala+(-0.0235)Arg+(0.0246)Orn+(-0.0039)Leu;0.690,0.747,0.741,0.763,0.675,0.820,0.764,0.756,(0.5729)+(0.0368)Ser+(-0.0086)Gly+(-0.0098)Thr+(-0.0064)Ala+(-0.0419)Tyr+(0.0230)Orn;0.690,0.744,0.756,0.781,0.757,0.805,0.652,0.749,(3.4728)+(0.0239)Thr+(-0.0047)Ala+(-0.0131)Arg+(-0.2310)Met+(-0.0046)Lys+(0.0098)Leu;0.690,0.736,0.759,

0.778,0.770,0.778,0.672,0.750,(3.7459)+(-0.0474)Asn+(0.0007)Gly+(-0.0107)Arg+(-0.1571)Met+(0.0288)Orn+(-0.0042)Leu;0.690,0.742,0.804,0.823,0.780,0.845,0.774,0.806,(2.8346)+(-0.0950)Asn+(0.0050)Gln+(-0.0067)Ala+(-0.0139)Arg+(0.0274)Orn+(-0.0077)Lys;0.690,0.741,0.720,0.736,0.633,0.819,0.786,0.744,(-1.5199)+(0.0281)Ser+(-0.0116)Thr+(-0.0088)Ala+(-0.0268)Val+(0.0312)Leu+(0.0497)Phe;0.690,0.738,0.769,0.828,0.714,0.776,0.723,0.760,(2.0461)+(-0.0005)Gly+(-0.0054)Ala+(-0.0159)Arg+(-0.0503)Tyr+(-0.0117)Val+(0.0872)Phe;0.690,0.738,0.799,0.813,0.798,0.818,0.754,0.796,(5.3387)+(-0.0428)Asn+(-0.0046)Ala+(-0.0678)Cit+(0.0072)Arg+(-0.0972)Met+(0.0002)Lys;0.690,0.737,0.771,0.836,0.715,0.780,0.710,0.760,(0.6803)+(0.0032)Gln+(-0.0066)Ala+(-0.0216)Arg+(-0.0556)Tyr+(-0.0124)Leu+(0.0808)Phe;0.690,0.733,0.713,0.707,0.724,0.801,0.639,0.718,(2.4566)+(-0.0841)Cit+(-0.0165)Arg+(0.0020)Pro+(-0.0313)Val+(0.0503)Orn+(0.0296)Leu;0.690,0.751,0.686,0.695,0.654,0.764,0.670,0.696,(1.0861)+(0.0404)Ser+(-0.0110)Gly+(0.0060)Pro+(-0.0562)Tyr+(0.0238)Orn+(-0.0193)Lys;0.690,0.740,0.709,0.740,0.709,0.748,0.601,0.699,(2.5849)+(0.0133)Thr+(0.0077)Pro+(-0.0217)Tyr+(-0.2561)Met+(0.0152)Orn+(-0.0018)Leu;0.690,0.733,0.754,0.765,0.719,0.802,0.762,0.762,(1.9557)+(0.0014)Thr+(-0.0120)Ala+(-0.0796)Cit+(0.0115)Pro+(-0.0104)Val+(0.0544)Phe;0.690,0.730,0.701,0.690,0.720,0.778,0.636,0.706,(1.0766)+(0.0396)Ser+(-0.0062)Gly+(-0.0658)Cit+(-0.0094)Arg+(0.0039)Pro+(-0.0192)Lys;0.690,0.747,0.715,0.753,0.709,0.742,0.606,0.703,(1.0894)+(0.0036)Gln+(0.0133)Thr+(-0.0856)Cit+(-0.0729)Tyr+(-0.0211)Lys+(0.0810)Phe;0.690,0.742,0.762,0.761,0.767,0.772,0.747,0.762,(1.6232)+(-0.1437)Asn+(0.0067)Gln+(0.0066)Thr+(-0.0826)Cit+(-0.0087)Arg+(0.0259)Ile;0.690,0.741,0.694,0.718,0.670,0.779,0.616,0.696,(1.3405)+(0.0258)Ser+(-0.0045)Thr+(-0.0658)Cit+(-0.0382)Tyr+(-0.0217)Val+(0.0313)Leu;0.690,0.740,0.723,0.750,0.740,0.761,0.587,0.709,(3.1344)+(-0.0002)Gly+(0.0207)Thr+(-0.0170)Ar

g+(0.0073)Pro+(-0.2782)Met+(-0.0001)Leu;0.690,0.744,0.789,0.791,0.789,0.817,0.761,0.789,(4.5054)+(-0.0059)Ala+(-0.0751)Cit+(0.0092)Arg+(-0.1421)Met+(-0.0050)Lys+(0.0133)Leu;0.690,0.738,0.762,0.789,0.748,0.801,0.689,0.757,(3.7272)+(-0.0015)Gly+(-0.0109)Tyr+(-0.0096)Val+(-0.1648)Met+(0.0353)Orn+(-0.0025)Lys;0.690,0.737,0.711,0.760,0.684,0.717,0.633,0.698,(0.9714)+(0.0009)Gln+(-0.0694)Tyr+(0.0266)Orn+(-0.0164)Lys+(-0.0145)Leu+(0.0751)Phe;0.690,0.745,0.803,0.837,0.789,0.811,0.736,0.793,(3.3321)+(-0.1042)Asn+(0.0081)Gln+(-0.0754)Cit+(-0.0307)Tyr+(-0.0056)Lys+(0.0004)Leu;0.690,0.737,0.766,0.791,0.735,0.820,0.727,0.768,(4.6137)+(-0.0095)Ala+(-0.0694)Cit+(-0.0023)Arg+(0.0149)Pro+(-0.0296)Tyr+(-0.0049)Val;0.690,0.735,0.761,0.798,0.766,0.785,0.638,0.747,(2.1273)+(-0.0021)Gly+(0.0051)Gln+(0.0216)Thr+(-0.0193)Arg+(-0.2644)Met+(-0.0042)Lys;0.690,0.735,0.759,0.776,0.783,0.780,0.649,0.747,(4.4582)+(-0.0431)Asn+(0.0038)Gly+(-0.0671)Cit+(-0.1452)Met+(-0.0010)Lys+(0.0053)Leu;0.690,0.750,0.735,0.729,0.689,0.832,0.773,0.756,(0.5420)+(0.0377)Ser+(-0.0081)Gly+(-0.0079)Ala+(0.0222)Orn+(-0.0210)Lys+(0.0044)Leu;0.690,0.741,0.791,0.816,0.775,0.796,0.753,0.785,(2.8949)+(-0.1132)Asn+(0.0147)Thr+(-0.0075)Ala+(-0.0162)Arg+(-0.0143)Leu+(0.0689)Phe;0.689,0.735,0.763,0.782,0.784,0.784,0.654,0.751,(4.6043)+(-0.0498)Asn+(0.0036)Gly+(-0.0701)Cit+(0.0062)Arg+(-0.1367)Met+(-0.0004)Lys;0.689,0.739,0.673,0.639,0.692,0.748,0.672,0.687,(-2.0330)+(0.0385)Ser+(-0.0039)Gly+(-0.0257)Thr+(-0.1048)Cit+(0.0345)Orn+(0.0196)Phe;0.689,0.740,0.794,0.817,0.779,0.841,0.728,0.791,(5.3480)+(-0.0801)Asn+(0.0033)Gly+(-0.0051)Ala+(-0.0704)Cit+(0.0049)Arg+(-0.0043)Val;0.689,0.740,0.723,0.782,0.643,0.747,0.717,0.722,(1.3035)+(0.0041)Thr+(-0.0088)Ala+(0.0117)Pro+(-0.0614)Tyr+(-0.0136)Val+(0.0768)Phe;0.689,0.739,0.733,0.761,0.729,0.765,0.641,0.724,(1.3249)+(0.0028)Gln+(0.0113)Thr+(0.0065)Pro+(-0.2985)Met+(0.0098)Orn+(-0.0020)Leu;0.689,0.741,0.712,0.733,0.733,0.7

71,0.573,0.702,(2.4157)+(0.0018)Gln+(0.0004)Thr+(-0.0990)Cit+(-0.0122)Arg+(-0.0576)Tyr+(0.0459)Orn;0.689,0.737,0.707,0.754,0.680,0.708,0.636,0.694,(1.6259)+(0.0083)Thr+(-0.0663)Cit+(-0.0706)Tyr+(-0.0212)Val+(0.0168)Leu+(0.0802)Phe;0.689,0.741,0.765,0.763,0.755,0.833,0.743,0.773,(4.0085)+(0.0079)Thr+(-0.0119)Ala+(-0.0856)Cit+(0.0117)Pro+(-0.0120)Lys+(0.0049)Leu;0.689,0.740,0.655,0.714,0.602,0.682,0.591,0.647,(-2.0290)+(0.0296)Ser+(-0.0134)Thr+(0.0073)Pro+(-0.0743)Tyr+(-0.0199)Leu+(0.0774)Phe;0.689,0.739,0.761,0.777,0.784,0.745,0.680,0.746,(3.2549)+(-0.1257)Asn+(0.0129)Thr+(-0.0684)Cit+(-0.0069)Arg+(-0.0191)Leu+(0.0655)Phe;0.689,0.735,0.747,0.771,0.742,0.747,0.691,0.738,(3.9388)+(-0.0436)Asn+(0.0012)Gly+(0.0086)Pro+(-0.0168)Tyr+(-0.1651)Met+(-0.0010)Lys;0.689,0.738,0.736,0.765,0.668,0.797,0.757,0.747,(1.5448)+(0.0020)Gln+(0.0061)Thr+(-0.0101)Ala+(-0.0229)Arg+(-0.0461)Tyr+(0.0513)Ile;0.689,0.735,0.704,0.739,0.671,0.684,0.696,0.697,(1.9904)+(-0.1086)Asn+(0.0012)Gly+(-0.0682)Tyr+(0.0140)Orn+(0.0203)Ile+(0.0515)Phe;0.689,0.739,0.679,0.676,0.726,0.762,0.526,0.673,(-1.3653)+(0.0244)Ser+(-0.0912)Cit+(-0.0252)Arg+(0.0333)Orn+(-0.0229)Leu+(0.0472)Phe;0.689,0.738,0.699,0.760,0.682,0.703,0.571,0.679,(1.3453)+(-0.0264)Arg+(0.0061)Pro+(-0.0746)Tyr+(0.0269)Orn+(-0.0253)Leu+(0.0775)Phe;0.689,0.738,0.683,0.681,0.620,0.806,0.732,0.710,(-0.4882)+(0.0288)Ser+(-0.0042)Gln+(-0.0090)Ala+(-0.0304)Val+(0.0364)Leu+(0.0533)Phe;0.689,0.736,0.687,0.700,0.656,0.713,0.700,0.692,(1.6835)+(-0.0018)Gly+(-0.0703)Tyr+(0.0197)Orn+(-0.0232)Lys+(0.0331)Ile+(0.0449)Phe;0.689,0.735,0.645,0.626,0.678,0.748,0.552,0.651,(-0.3134)+(0.0251)Ser+(-0.0044)Gln+(-0.1014)Cit+(-0.0189)Val+(0.0439)Orn+(0.0516)Phe;0.689,0.742,0.697,0.725,0.682,0.789,0.585,0.695,(1.6144)+(0.0261)Ser+(-0.0540)Cit+(-0.0137)Arg+(-0.0365)Tyr+(-0.0226)Val+(0.0322)Leu;0.689,0.739,0.754,0.780,0.744,0.798,0.673,0.749,(3.2432)+(0.0214)Thr+(-0.0047)Ala+(-0.0081)Tyr+(-0.2247)Met+(-0

.0071)Lys+(0.0115)Leu;0.689,0.739,0.825,0.875,0.783,0.848,0.767,0.818,(3.6442)+(-0.1011)Asn+(0.0068)Gln+(-0.0030)Ala+(-0.0116)Arg+(-0.0190)Tyr+(-0.0085)Val;0.689,0.738,0.788,0.828,0.744,0.817,0.753,0.786,(3.2028)+(-0.1080)Asn+(0.0045)Gln+(-0.0053)Ala+(-0.0328)Tyr+(0.0273)Orn+(-0.0050)Leu;0.689,0.735,0.735,0.790,0.704,0.722,0.666,0.720,(0.9087)+(-0.0005)Gly+(0.0028)Gln+(-0.0707)Cit+(-0.0683)Tyr+(-0.0126)Val+(0.0843)Phe;0.689,0.738,0.721,0.731,0.662,0.798,0.766,0.739,(-0.5702)+(0.0341)Ser+(-0.0062)Gly+(-0.0027)Gln+(-0.0084)Ala+(-0.0133)Val+(0.0586)Phe;0.689,0.737,0.804,0.825,0.778,0.839,0.781,0.806,(2.5375)+(-0.1047)Asn+(0.0000)Gly+(0.0048)Gln+(-0.0072)Ala+(-0.0168)Arg+(0.0237)Orn;0.689,0.736,0.780,0.793,0.736,0.824,0.806,0.790,(2.4992)+(-0.1163)Asn+(0.0003)Gly+(0.0033)Gln+(-0.0099)Ala+(0.0085)Pro+(0.0164)Orn;0.689,0.734,0.796,0.820,0.754,0.826,0.795,0.799,(2.6565)+(-0.1008)Asn+(0.0006)Gly+(0.0048)Gln+(-0.0091)Ala+(-0.0136)Arg+(0.0095)Pro;0.689,0.747,0.760,0.787,0.703,0.844,0.748,0.771,(1.8973)+(0.0380)Ser+(-0.0091)Gly+(-0.0045)Ala+(-0.0284)Tyr+(-0.0034)Val+(-0.0107)Lys;0.689,0.743,0.712,0.716,0.656,0.832,0.733,0.734,(0.5271)+(0.0339)Ser+(-0.0013)Gln+(-0.0103)Thr+(-0.0101)Ala+(0.0127)Pro+(-0.0133)Lys;0.689,0.743,0.741,0.755,0.750,0.785,0.656,0.736,(3.2196)+(-0.0122)Arg+(0.0071)Pro+(-0.2132)Met+(0.0260)Orn+(-0.0042)Lys+(-0.0033)Leu;0.689,0.737,0.779,0.783,0.764,0.826,0.768,0.785,(2.4602)+(-0.0094)Ala+(-0.0832)Cit+(0.0032)Arg+(-0.0127)Lys+(-0.0002)Leu+(0.0608)Phe;0.689,0.736,0.794,0.821,0.777,0.814,0.746,0.789,(3.6932)+(-0.1275)Asn+(0.0072)Gln+(-0.0674)Cit+(0.0068)Pro+(-0.0125)Val+(-0.0018)Lys;0.689,0.740,0.715,0.755,0.718,0.799,0.545,0.704,(1.5995)+(0.0245)Ser
+(0.0011)Gln+(-0.0607)Cit+(-0.0146)Arg+(-0.0356)Tyr+(-0.0060)Val;0.689,0.738,0.638,0.675,0.642,0.742,0.461,0.630,(0.5659)+(0.0282)Ser+(-0.0018)Gln+(-0.0285)Arg+(0.0061)Pro+(-0.0578)Tyr+(0.0177)Orn;0.689,0.74

3,0.752,0.796,0.729,0.760,0.678,0.741,(1.0582)+(0.0042)Gln+(-0.0741)C
it+(-0.0624)Tyr+(-0.0092)Val+(-0.0120)Lys+(0.0884)Phe;0.689,0.739,0.7
33,0.773,0.721,0.755,0.633,0.721,(4.6522)+(-0.0821)Asn+(-0.0150)Arg+(
0.0068)Pro+(-0.0443)Tyr+(0.0332)Orn+(-0.0129)Leu;0.689,0.735,0.762,0.
775,0.730,0.804,0.762,0.768,(2.2322)+(-0.0114)Ala+(-0.0706)Cit+(-0.00
86)Arg+(0.0118)Pro+(-0.0109)Val+(0.0584)Phe;0.689,0.740,0.739,0.757,0
.747,0.776,0.645,0.731,(3.0480)+(0.0002)Gly+(-0.0141)Arg+(0.0074)Pro+
(-0.2224)Met+(0.0243)Orn+(-0.0052)Leu;0.689,0.738,0.759,0.777,0.733,0
.811,0.729,0.763,(4.2561)+(-0.0106)Ala+(-0.0758)Cit+(-0.0014)Arg+(0.0
142)Pro+(-0.0328)Tyr+(0.0009)Leu;0.689,0.740,0.758,0.786,0.746,0.793,
0.682,0.752,(3.0367)+(-0.0009)Gly+(0.0201)Thr+(-0.0047)Ala+(-0.0095)T
yr+(-0.2352)Met+(0.0078)Leu;0.689,0.737,0.730,0.788,0.647,0.752,0.731
,0.730,(1.3410)+(0.0004)Gln+(-0.0087)Ala+(0.0119)Pro+(-0.0587)Tyr+(-0
.0132)Val+(0.0755)Phe;0.689,0.736,0.776,0.802,0.732,0.850,0.744,0.782
,(1.3733)+(0.0349)Ser+(-0.0078)Gly+(0.0007)Gln+(-0.0059)Ala+(-0.0235)
Arg+(-0.0085)Val;0.689,0.746,0.751,0.798,0.716,0.859,0.623,0.749,(1.6
589)+(0.0277)Ser+(-0.0048)Ala+(-0.0177)Arg+(-0.0201)Tyr+(-0.0041)Val+
(-0.0064)Lys;0.689,0.733,0.741,0.744,0.721,0.811,0.727,0.751,(1.2808)
+(0.0036)Gly+(-0.0137)Ala+(-0.0897)Cit+(-0.0072)Arg+(0.0109)Pro+(0.04
58)Phe;0.689,0.741,0.729,0.749,0.723,0.767,0.658,0.724,(3.1439)+(0.00
78)Pro+(-0.0197)Tyr+(-0.1973)Met+(0.0252)Orn+(-0.0064)Lys+(-0.0013)Le
u;0.689,0.741,0.678,0.703,0.694,0.720,0.548,0.666,(1.3714)+(0.0040)Th
r+(-0.0971)Cit+(-0.0128)Arg+(-0.0779)Tyr+(0.0412)Orn+(0.0549)Phe;0.68
9,0.739,0.765,0.799,0.755,0.809,0.665,0.757,(3.6609)+(-0.0013)Gly+(0.
0208)Thr+(-0.0039)Ala+(-0.0081)Tyr+(-0.2089)Met+(-0.0039)Lys;0.689,0.
739,0.792,0.816,0.752,0.827,0.784,0.795,(2.7708)+(-0.1115)Asn+(0.0046
)Gln+(0.0085)Thr+(-0.0094)Ala+(-0.0162)Arg+(0.0088)Pro;0.689,0.736,0.
783,0.801,0.789,0.798,0.709,0.774,(2.1379)+(0.0065)Gln+(-0.0746)Cit+(

-0.0001)Arg+(-0.2109)Met+(-0.0063)Lys+(0.0080)Leu;0.689,0.745,0.722,0.743,0.665,0.814,0.722,0.736,(1.1246)+(0.0343)Ser+(-0.0089)Gly+(-0.0014)Gln+(-0.0067)Ala+(-0.0470)Tyr+(0.0206)Orn;0.689,0.741,0.769,0.792,0.758,0.817,0.700,0.767,(3.6737)+(-0.0046)Ala+(-0.0114)Arg+(-0.0097)Tyr+(-0.1418)Met+(0.0331)Orn+(-0.0039)Lys;0.689,0.746,0.765,0.764,0.763,0.777,0.764,0.767,(1.5855)+(-0.1484)Asn+(0.0065)Gln+(0.0058)Thr+(-0.0885)Cit+(-0.0034)Pro+(0.0305)Ile;0.689,0.737,0.730,0.755,0.666,0.790,0.757,0.742,(2.3558)+(-0.0008)Gly+(0.0083)Thr+(-0.0100)Ala+(-0.0204)Arg+(-0.0466)Tyr+(0.0518)Ile;0.689,0.732,0.725,0.738,0.704,0.802,0.677,0.730,(1.3906)+(0.0406)Ser+(-0.0088)Gly+(-0.0227)Arg+(0.0070)Pro+(-0.0119)Val+(-0.0121)Lys;0.689,0.742,0.683,0.706,0.664,0.778,0.595,0.686,(1.6371)+(0.0251)Ser+(-0.0010)Gln+(-0.0654)Cit+(-0.0405)Tyr+(-0.0227)Val+(0.0328)Leu;0.689,0.739,0.779,0.805,0.738,0.833,0.758,0.783,(5.1989)+(-0.1100)Asn+(0.0116)Thr+(-0.0073)Ala+(0.0123)Pro+(-0.0129)Val+(-0.0007)Lys;0.689,0.739,0.764,0.797,0.767,0.810,0.640,0.754,(3.8242)+(-0.0007)Gly+(0.0233)Thr+(-0.0040)Ala+(-0.0144)Arg+(-0.2177)Met+(-0.0017)Lys;0.689,0.745,0.733,0.716,0.756,0.735,0.731,0.734,(2.5561)+(-0.1270)Asn+(0.0090)Thr+(-0.0805)Cit+(-0.0030)Pro+(0.0242)Ile+(0.0272)Phe;0.689,0.739,0.760,0.800,0.771,0.803,0.600,0.743,(4.1392)+(-0.0012)Gly+(0.0242)Thr+(-0.0166)Arg+(-0.0082)Val+(-0.2323)Met+(0.0017)Lys;0.689,0.738,0.736,0.736,0.674,0.835,0.794,0.760,(2.7801)+(-0.0096)Ala+(0.0093)Pro+(-0.0324)Val+(0.0304)Orn+(-0.0145)Lys+(0.0452)Leu;0.689,0.737,0.783,0.828,0.749,0.824,0.707,0.777,(5.5809)+(-0.1044)Asn+(-0.0010)Gly+(0.0175)Thr+(-0.0036)Ala+(-0.0252)Tyr+(-0.0091)Val;0.689,0.743,0.670,0.720,0.666,0.775,0.471,0.658,(0.8189)+(0.0244)Ser+(-0.0304)Arg+(0.0073)Pro+(-0.0536)Tyr+(0.0205)Orn+(-0.0113)Leu;0.689,0.743,0.730,0.756,0.732,0.769,0.632,0.722,(3.3950)+(-0.0142)Arg+(0.0083)Pro+(-0.0210)Tyr+(-0.1895)Met+(0.0268)Orn+(-0.0054)Leu;0.689,0.752,0.723,0.7

42,0.655,0.854,0.722,0.743,(1.1569)+(0.0281)Ser+(-0.0060)Ala+(-0.0188)Tyr+(-0.0265)Val+(-0.0152)Lys+(0.0484)Leu;0.689,0.746,0.735,0.763,0.687,0.794,0.720,0.741,(1.2365)+(0.0356)Ser+(-0.0103)Gly+(-0.0095)Thr+(-0.0477)Tyr+(-0.0109)Val+(0.0288)Orn;0.689,0.746,0.742,0.736,0.772,0.832,0.632,0.743,(2.9549)+(0.0016)Gln+(-0.0013)Thr+(-0.1086)Cit+(-0.0100)Val+(0.0584)Orn+(-0.0172)Lys;0.689,0.732,0.765,0.796,0.715,0.803,0.759,0.768,(4.6488)+(-0.0766)Asn+(0.0006)Gly+(-0.0081)Ala+(0.0129)Pro+(-0.0309)Tyr+(-0.0031)Leu;0.689,0.731,0.748,0.756,0.725,0.826,0.721,0.757,(1.4474)+(0.0300)Ser+(-0.0049)Gly+(0.0004)Gln+(-0.0081)Ala+(-0.0748)Cit+(-0.0036)Val;0.689,0.731,0.783,0.811,0.741,0.834,0.757,0.786,(5.1444)+(-0.0848)Asn+(0.0015)Gly+(-0.0070)Ala+(-0.0073)Arg+(0.0132)Pro+(-0.0114)Val;0.689,0.737,0.800,0.822,0.761,0.832,0.803,0.804,(2.9120)+(-0.0939)Asn+(0.0051)Gln+(-0.0088)Ala+(-0.0112)Arg+(0.0096)Pro+(-0.0051)Lys;0.688,0.740,0.753,0.779,0.751,0.803,0.656,0.747,(5.1287)+(-0.1207)Asn+(0.0104)Thr+(-0.0177)Arg+(0.0065)Pro+(-0.0196)Val+(0.0346)Orn;0.688,0.747,0.750,0.743,0.780,0.762,0.698,0.746,(3.3814)+(-0.1126)Asn+(0.0152)Thr+(-0.0793)Cit+(0.0019)Arg+(-0.0152)Lys+(0.0532)Phe;0.688,0.743,0.771,0.800,0.747,0.808,0.719,0.769,(3.6885)+(-0.1509)Asn+(0.0037)Gln+(0.0056)Thr+(0.0059)Pro+(-0.0195)Val+(0.0282)Orn;0.688,0.733,0.716,0.736,0.629,0.778,0.801,0.736,(1.8928)+(-0.0015)Gly+(0.0004)Thr+(-0.0120)Ala+(0.0080)Pro+(-0.0507)Tyr+(0.0447)Ile;0.688,0.744,0.716,0.744,0.673,0.789,0.680,0.721,(1.8683)+(0.0335)Ser+(-0.0106)Gly+(-0.0017)Gln+(-0.0522)Tyr+(-0.0114)Val+(0.0274)Orn;0.688,0.738,0.643,0.627,0.624,0.769,0.633,0.663,(-0.4512)+(0.0364)Ser+(-0.0037)Gln+(-0.0317)Val+(-0.0226)Lys+(0.0406)Leu+(0.0519)Phe;0.688,0.733,0.753,0.778,0.747,0.768,0.687,0.745,(3.9136)+(-0.0572)Asn+(0.0001)Gly+(-0.0197)Tyr+(-0.1310)Met+(0.0289)Orn+(-0.0037)Leu;0.688,0.729,0.730,0.734,0.735,0.804,0.659,0.733,(1.8819)+(0.0382)Ser+(-0.0070)Gly+(-0.0554)Cit+(

-0.0107)Arg+(-0.0059)Val+(-0.0136)Lys;0.688,0.739,0.726,0.777,0.638,0.756,0.757,0.732,(1.5560)+(-0.0090)Ala+(0.0115)Pro+(-0.0554)Tyr+(-0.0237)Val+(0.0228)Leu+(0.0673)Phe;0.688,0.738,0.724,0.744,0.731,0.757,0.636,0.717,(2.3939)+(-0.0008)Gly+(0.0130)Thr+(0.0066)Pro+(-0.2839)Met+(0.0137)Orn+(-0.0025)Leu;0.688,0.739,0.723,0.749,0.740,0.762,0.591,0.711,(3.2406)+(0.0212)Thr+(-0.0156)Arg+(0.0071)Pro+(-0.2716)Met+(-0.0038)Lys+(0.0019)Leu;0.688,0.738,0.746,0.751,0.666,0.841,0.832,0.772,(0.4955)+(0.0351)Ser+(-0.0072)Gly+(-0.0087)Thr+(-0.0073)Ala+(-0.0279)Val+(0.0403)Leu;0.688,0.732,0.733,0.764,0.693,0.799,0.689,0.736,(3.5157)+(-0.0091)Ala+(-0.0159)Arg+(0.0112)Pro+(-0.0385)Tyr+(0.0296)Orn+(-0.0086)Lys;0.688,0.732,0.764,0.793,0.716,0.801,0.762,0.768,(4.6337)+(-0.0733)Asn+(0.0007)Gly+(-0.0082)Ala+(0.0126)Pro+(-0.0302)Tyr+(-0.0025)Lys;0.688,0.744,0.715,0.707,0.733,0.757,0.665,0.716,(2.6553)+(-0.1121)Asn+(0.0058)Gly+(-0.0843)Cit+(-0.0010)Arg+(-0.0014)Pro+(0.0357)Ile;0.688,0.743,0.758,0.797,0.736,0.802,0.669,0.751,(4.6070)+(-0.0892)Asn+(0.0134)Thr+(-0.0057)Ala+(-0.0162)Arg+(-0.0373)Tyr+(0.0290)Orn;0.688,0.738,0.767,0.787,0.748,0.817,0.721,0.768,(3.5058)+(-0.0008)Gly+(-0.0046)Ala+(-0.0101)Tyr+(-0.1495)Met+(0.0312)Orn+(-0.0059)Lys;0.688,0.737,0.780,0.817,0.759,0.802,0.710,0.772,(2.5819)+(-0.0009)Gly+(0.0053)Gln+(-0.0137)Arg+(0.0106)Pro+(-0.0102)Val+(-0.2201)Met;0.688,0.736,0.772,0.807,0.746,0.787,0.719,0.765,(2.3572)+(-0.0010)Gly+(0.0043)Gln+(0.0106)Pro+(-0.0106)Val+(-0.2376)Met+(0.0005)Lys;0.688,0.735,0.680,0.706,0.684,0.710,0.584,0.671,(0.8386)+(-0.0004)Gly+(0.0010)Gln+(-0.1074)Cit+(-0.0799)Tyr+(0.0408)Orn+(0.0524)Phe;0.688,0.732,0.703,0.749,0.677,0.700,0.636,0.690,(1.7728)+(0.0005)Gly+(-0.0663)Cit+(0.0072)Pro+(-0.0700)Tyr+(-0.0141)Val+(0.0826)Phe;0.688,0.738,0.764,0.805,0.735,0.780,0.702,0.756,(2.4275)+(0.0041)Gln+(0.0111)Pro+(-0.0100)Tyr+(-0.0102)Val+(-0.2249)Met+(0.0007)Lys;0.688,0.736,0.757,0.791,0.765,0.774,0.

638,0.742,(1.7885)+(-0.0018)Gly+(0.0048)Gln+(0.0211)Thr+(-0.0209)Arg+(-0.2840)Met+(0.0026)Leu;0.688,0.745,0.737,0.767,0.737,0.756,0.644,0.726,(4.7174)+(-0.0861)Asn+(0.0033)Gly+(-0.0700)Cit+(0.0015)Arg+(0.0069)Pro+(-0.0369)Tyr;0.688,0.744,0.803,0.837,0.789,0.813,0.735,0.794,(3.3391)+(-0.1041)Asn+(0.0081)Gln+(-0.0749)Cit+(-0.0005)Arg+(-0.0305)Tyr+(-0.0053)Lys;0.688,0.741,0.628,0.643,0.574,0.706,0.647,0.643,(-2.0246)+(0.0321)Ser+(-0.0181)Thr+(0.0012)Pro+(-0.0619)Tyr+(0.0065)Orn+(0.0375)Ile;0.688,0.736,0.766,0.774,0.781,0.746,0.726,0.757,(3.3593)+(-0.0971)Asn+(-0.0680)Cit+(0.0035)Pro+(-0.0068)Lys+(-0.0157)Leu+(0.0643)Phe;0.688,0.738,0.716,0.744,0.719,0.747,0.614,0.706,(3.0907)+(0.0187)Thr+(0.0077)Pro+(-0.0189)Tyr+(-0.2535)Met+(-0.0064)Lys+(0.0040)Leu;0.688,0.734,0.754,0.781,0.751,0.773,0.673,0.745,(1.7124)+(-0.0019)Gly+(0.0042)Gln+(0.0183)Thr+(-0.2782)Met+(-0.0091)Lys+(0.0071)Leu;0.688,0.734,0.756,0.761,0.730,0.803,0.762,0.764,(1.8331)+(0.0006)Thr+(-0.0130)Ala+(-0.0871)Cit+(0.0111)Pro+(-0.0093)Leu+(0.0494)Phe;0.688,0.745,0.698,0.725,0.668,0.808,0.611,0.703,(1.2833)+(0.0296)Ser+(-0.0167)Arg+(-0.0271)Tyr+(-0.0269)Val+(-0.0122)Lys+(0.0421)Leu;0.688,0.743,0.759,0.770,0.771,0.765,0.699,0.751,(4.9020)+(-0.0393)Asn+(-0.0634)Cit+(0.0045)Arg+(0.0089)Pro+(-0.0160)Tyr+(-0.1497)Met;0.688,0.742,0.772,0.803,0.751,0.806,0.712,0.768,(4.6724)+(-0.0740)Asn+(-0.0051)Ala+(-0.0125)Arg+(-0.0298)Tyr+(0.0357)Orn+(-0.0049)Leu;0.688,0.737,0.741,0.772,0.718,0.758,0.693,0.735,(1.7202)+(-0.0016)Gly+(0.0034)Gln+(0.0074)Pro+(-0.0210)Tyr+(-0.2378)Met+(0.0168)Orn;0.688,0.735,0.780,0.792,0.761,0.816,0.764,0.783,(2.4548)+(-0.0083)Ala+(-0.0743)Cit+(-0.0004)Arg+(-0.0066)Val+(-0.0095)Lys+(0.0682)Phe;0.688,0.734,0.698,0.714,0.709,0.756,0.587,0.692,(2.2821)+(0.0011)Gln+(-0.0029)Thr+(-0.1065)Cit+(0.0031)Pro+(-0.0622)Tyr+(0.0454)Orn;0.688,0.752,0.743,0.760,0.688,0.825,0.754,0.757,(1.3226)+(0.0401)Ser+(-0.0088)Gly+(-0.0057)Ala+(-0.0321)Tyr+(-0.0

147)Lys+(0.0085)Leu;0.688,0.742,0.733,0.761,0.691,0.762,0.725,0.735,(2.6333)+(-0.1075)Asn+(0.0045)Gln+(0.0122)Thr+(-0.0527)Tyr+(-0.0153)Lys+(0.0406)Ile;0.688,0.745,0.754,0.785,0.765,0.784,0.626,0.740,(5.6750)+(-0.0921)Asn+(0.0194)Thr+(-0.0666)Cit+(-0.0012)Arg+(-0.0370)Tyr+(-0.0064)Lys;0.688,0.737,0.755,0.778,0.747,0.798,0.677,0.750,(4.9503)+(-0.1082)Asn+(0.0006)Gly+(-0.01

45)Arg+(0.0069)Pro+(-0.0187)Val+(0.0377)Orn;0.688,0.734,0.753,0.780,0.749,0.790,0.665,0.746,(1.9196)+(-0.0023)Gly+(0.0036)Gln+(0.0144)Thr+(-0.2567)Met+(0.0175)Orn+(-0.0092)Lys;0.688,0.741,0.698,0.730,0.707,0.776,0.535,0.687,(1.2582)+(0.0282)Ser+(-0.0037)Thr+(-0.0659)Cit+(-0.0121)Arg+(-0.0396)Tyr+(-0.0007)Leu;0.688,0.737,0.743,0.795,0.682,0.751,0.725,0.738,(1.2221)+(-0.0028)Gly+(-0.0071)Ala+(-0.0633)Tyr+(0.0242)Orn+(-0.0158)Leu+(0.0746)Phe;0.688,0.738,0.745,0.780,0.757,0.782,0.601,0.730,(1.6707)+(0.0040)Gln+(0.0172)Thr+(-0.0218)Arg+(-0.2742)Met+(0.0146)Orn+(0.0004)Leu;0.688,0.742,0.698,0.719,0.624,0.816,0.710,0.718,(0.6670)+(0.0308)Ser+(-0.0017)Gln+(-0.0112)Thr+(-0.0098)Ala+(0.0140)Pro+(-0.0345)Tyr;0.688,0.742,0.819,0.864,0.794,0.824,0.748,0.807,(3.1505)+(-0.0769)Asn+(0.0074)Gln+(-0.0101)Arg+(-0.0062)Tyr+(-0.0083)Val+(-0.1169)Met;0.688,0.740,0.743,0.772,0.751,0.759,0.635,0.729,(4.0311)+(-0.0562)Asn+(0.0230)Thr+(-0.0169)Tyr+(-0.1940)Met+(-0.0045)Lys+(0.0049)Leu;0.688,0.733,0.693,0.723,0.691,0.766,0.565,0.686,(0.8775)+(0.0275)Ser+(0.0004)Gln+(-0.0076)Thr+(-0.0759)Cit+(-0.0412)Tyr+(-0.0006)Leu;0.688,0.732,0.709,0.735,0.689,0.723,0.671,0.705,(3.2742)+(-0.0835)Asn+(0.0010)Gly+(-0.0149)Arg+(-0.0523)Tyr+(0.0207)Orn+(0.0312)Ile;0.688,0.741,0.712,0.726,0.659,0.840,0.693,0.729,(1.3077)+(0.0288)Ser+(-0.0017)Gln+(-0.0094)Ala+(0.0129)Pro+(-0.0070)Val+(-0.0130)Lys;0.688,0.738,0.660,0.627,0.701,0.762,0.588,0.669,(-0.6195)+(0.0334)Ser+(-0.0021)Gln+(-0.0229)Thr+(-0.1061)Cit+(0.0008)Pro+(0.0397)Orn;0.688,0.741,0

.777,0.804,0.752,0.814,0.733,0.776,(3.6423)+(-0.1366)Asn+(0.0040)Gln+(0.0061)Pro+(-0.0182)Val+(0.0309)Orn+(-0.0030)Lys;0.688,0.738,0.771,0.788,0.742,0.785,0.779,0.774,(6.0258)+(-0.1029)Asn+(-0.0482)Cit+(0.0051)Arg+(-0.0181)Tyr+(-0.0325)Val+(0.0493)Leu;0.688,0.737,0.707,0.741,0.673,0.680,0.706,0.700,(2.1743)+(-0.1055)Asn+(0.0016)Pro+(-0.0704)Tyr+(0.0145)Orn+(0.0178)Ile+(0.0510)Phe;0.688,0.730,0.711,0.700,0.719,0.789,0.672,0.720,(2.3315)+(-0.0005)Gln+(-0.0066)Thr+(-0.0970)Cit+(-0.0296)Val+(0.0531)Orn+(0.0285)Leu;0.688,0.739,0.689,0.740,0.668,0.789,0.529,0.681,(1.3614)+(0.0273)Ser+(-0.0028)Thr+(-0.0250)Arg+(0.0099)Pro+(-0.0409)Tyr+(-0.0111)Val;0.688,0.737,0.671,0.693,0.680,0.705,0.572,0.662,(1.0985)+(0.0000)Gly+(-0.1062)Cit+(0.0017)Pro+(-0.0803)Tyr+(0.0410)Orn+(0.0516)Phe;0.688,0.750,0.675,0.688,0.642,0.801,0.617,0.687,(0.9546)+(0.0247)Ser+(-0.0349)Tyr+(-0.0301)Val+(0.0286)Orn+(-0.0198)Lys+(0.0454)Leu;0.688,0.736,0.766,0.817,0.708,0.772,0.749,0.761,(1.9853)+(-0.0011)Gly+(-0.0055)Ala+(-0.0513)Tyr+(-0.0102)Val+(-0.0070)Lys+(0.0848)Phe;0.688,0.735,0.790,0.839,0.753,0.817,0.714,0.781,(3.3544)+(-0.1121)Asn+(0.0057)Gln+(0.0159)Thr+(-0.0051)Ala+(-0.0174)Arg+(-0.0345)Tyr;0.688,0.739,0.719,0.734,0.730,0.768,0.618,0.713,(2.6639)+(0.0141)Thr+(0.0062)Pro+(-0.2659)Met+(0.0166)Orn+(-0.0084)Lys+(0.0016)Leu;0.688,0.741,0.695,0.697,0.693,0.764,0.646,0.700,(3.0936)+(0.0027)Gly+(-0.0790)Cit+(-0.0003)Pro+(-0.0442)Tyr+(-0.0180)Lys+(0.0539)Ile;0.688,0.741,0.725,0.744,0.669,0.854,0.697,0.741,(1.1006)+(0.0278)Ser+(-0.0012)Gln+(-0.0069)Ala+(-0.0207)Arg+(-0.0287)Val+(0.0427)Leu;0.688,0.738,0.602,0.633,0.565,0.651,0.561,0.603,(-1.6882)+(0.0362)Ser+(-0.0036)Gln+(-0.0130)Thr+(0.0057)Pro+(-0.0760)Tyr+(0.0608)Phe;0.688,0.736,0.754,0.766,0.776,0.737,0.688,0.742,(3.1100)+(-0.1293)Asn+(0.0104)Thr+(-0.0727)Cit+(0.0026)Pro+(-0.0200)Leu+(0.0633)Phe;0.688,0.739,0.764,0.793,0.756,0.782,0.692,0.756,(4.9256)+(-0.0514)Asn+(0.0016)Gly+(-0.0053)

Arg+(0.0111)Pro+(-0.0112)Val+(-0.1453)Met;0.688,0.737,0.798,0.832,0.788,0.821,0.710,0.788,(3.8751)+(-0.1412)Asn+(0.0071)Gln+(0.0134)Thr+(-0.0633)Cit+(-0.0092)Arg+(-0.0116)Val;0.688,0.734,0.752,0.773,0.758,0.758,0.683,0.743,(3.6945)+(-0.0380)Asn+(0.0018)Gly+(-0.0068)Arg+(0.0080)Pro+(-0.1897)Met+(-0.0004)Lys;0.688,0.748,0.757,0.783,0.699,0.840,0.753,0.769,(1.4782)+(0.0380)Ser+(-0.0092)Gly+(0.0008)Gln+(-0.0051)Ala+(-0.0310)Tyr+(-0.0126)Lys;0.688,0.736,0.687,0.705,0.665,0.719,0.662,0.688,(1.7070)+(-0.0153)Arg+(-0.0662)Tyr+(0.0212)Orn+(-0.0199)Lys+(0.0328)Ile+(0.0455)Phe;0.688,0.740,0.823,0.869,0.774,0.846,0.784,0.818,(3.6276)+(-0.1108)Asn+(0.0061)Gln+(-0.0033)Ala+(-0.0203)Tyr+(-0.0088)Val+(0.0005)Lys;0.688,0.740,0.821,0.856,0.780,0.856,0.790,0.821,(3.7761)+(-0.1357)Asn+(-0.0012)Gly+(0.0052)Gln+(0.0122)Thr+(-0.0043)Ala+(-0.0115)Val;0.688,0.738,0.720,0.787,0.700,0.722,0.581,0.698,(0.7372)+(0.0018)Gln+(-0.0278)Arg+(-0.0708)Tyr+(0.0270)Orn+(-0.0231)Leu+(0.0780)Phe;0.688,0.737,0.741,0.801,0.685,0.768,0.679,0.733,(0.6293)+(0.0021)Gln+(0.0108)Thr+(-0.0083)Ala+(-0.0262)Arg+(-0.0623)Tyr+(0.0703)Phe;0.688,0.748,0.753,0.776,0.698,0.837,0.749,0.765,(1.6498)+(0.0388)Ser+(-0.0090)Gly+(0.0000)Thr+(-0.0050)Ala+(-0.0303)Tyr+(-0.0122)Lys;0.688,0.744,0.743,0.791,0.700,0.849,0.630,0.743,(0.9325)+(0.0269)Ser+(0.0003)Gln+(-0.0015)Thr+(-0.0060)Ala+(-0.0212)Arg+(-0.0284)Tyr;0.687,0.747,0.733,0.723,0.766,0.824,0.624,0.734,(3.4171)+(-0.0007)Thr+(-0.1059)Cit+(0.0024)Pro+(-0.0110)Val+(0.0587)Orn+(-0.0164)Lys;0.687,0.742,0.739,0.754,0.761,0.768,0.633,0.729,(3.8352)+(0.0030)Gly+(-0.0696)Cit+(0.0017)Arg+(0.0094)Pro+(-0.0103)Tyr+(-0.2016)Met;0.687,0.739,0.762,0.799,0.762,0.803,0.633,0.749,(3.9239)+(-0.0011)Gly+(0.0238)Thr+(-0.0038)Ala+(-0.0152)Arg+(-0.0091)Tyr+(-0.2094)Met;0.687,0.736,0.673,0.697,0.679,0.705,0.574,0.664,(0.8150)+(0.0008)Gln+(-0.1072)Cit+(0.0016)Pro+(-0.0812)Tyr+(0.0400)Orn+(0.0517)Phe;0.687,0.736,0.797,0.832,0.779,0.7

92,0.747,0.788,(2.3317)+(-0.0681)Asn+(0.0065)Gln+(-0.0122)Tyr+(-0.156
5)Met+(-0.0030)Lys+(0.0020)Leu;0.687,0.734,0.759,0.763,0.698,0.817,0.
832,0.778,(0.6348)+(0.0006)Gly+(0.0016)Gln+(-0.0020)Thr+(-0.0123)Ala+
(-0.0225)Arg+(0.0470)Ile;0.687,0.731,0.753,0.751,0.732,0.806,0.763,0.
763,(1.8323)+(0.0026)Thr+(-0.0136)Ala+(-0.0840)Cit+(-0.0075)Arg+(0.01
04)Pro+(0.0418)Phe;0.687,0.731,0.688,0.714,0.676,0.759,0.591,0.685,(-
1.1284)+(0.0334)Ser+(-0.0017)Gln+(-0.0073)Thr+(-0.0281)Arg+(-0.0171)V
al+(0.0616)Phe;0.687,0.736,0.798,0.834,0.778,0.786,0.750,0.787,(2.308
3)+(-0.0710)Asn+(-0.0004)Gly+(0.0064)Gln+(-0.0132)Tyr+(-0.1589)Met+(0
.0003)Leu;0.687,0.737,0.773,0.779,0.786,0.760,0.737,0.765,(3.3643)+(-
0.0962)Asn+(-0.0705)Cit+(0.0029)Arg+(-0.0076)Lys+(-0.0132)Leu+(0.0661
)Phe;0.687,0.733,0.719,0.774,0.693,0.712,0.634,0.703,(0.9187)+(0.0020
)Gln+(0.0059)Thr+(-0.0722)Cit+(-0.0719)Tyr+(-0.0130)Val+(0.0857)Phe;0
.687,0.740,0.765,0.816,0.705,0.781,0.743,0.761,(0.9458)+(0.0024)Gln+(
-0.0067)Ala+(-0.0539)Tyr+(-0.0119)Lys+(-0.0066)Leu+(0.0769)Phe;0.687,
0.738,0.721,0.729,0.748,0.732,0.633,0.711,(2.0430)+(-0.1255)Asn+(0.00
61)Gly+(-0.0827)Cit+(-0.0015)Arg+(0.0015)Pro+(0.0491)Phe;0.687,0.734,
0.770,0.798,0.752,0.736,0.759,0.761,(3.5826)+(-0.1251)Asn+(-0.0109)Ar
g+(0.0066)Pro+(-0.0216)Val+(0.0024)Lys+(0.0716)Phe;0.687,0.741,0.731,
0.774,0.717,0.742,0.639,0.718,(2.1410)+(0.0016)Gly+(-0.0674)Cit+(-0.0
571)Tyr+(-0.0099)Val+(-0.0093)Lys+(0.0902)Phe;0.687,0.741,0.773,0.814
,0.751,0.798,0.689,0.763,(2.6516)+(0.0051)Gln+(-0.0137)Arg+(0.0111)Pr
o+(-0.0096)Tyr+(-0.0098)Val+(-0.2071)Met;0.687,0.737,0.768,0.793,0.76
8,0.806,0.674,0.760,(1.8195)+(0.0046)Gln+(-0.0152)Arg+(-0.2140)Met+(0
.0243)Orn+(-0.0062)Lys+(0.0010)Leu;0.687,0.743,0.697,0.699,0.645,0.82
7,0.708,0.720,(0.6580)+(0.0314)Ser+(-0.0019)Gln+(-0.0105)Ala+(0.0113)
Pro+(-0.0175)Lys+(0.0039)Leu;0.687,0.742,0.761,0.798,0.762,0.804,0.63
2,0.749,(3.8375)+(-0.0017)Gly+(0.0210)Thr+(-0.0081)Tyr+(-0.0072)Val+(

-0.2256)Met+(-0.0012)Lys;0.687,0.736,0.675,0.697,0.657,0.762,0.595,0.678,(-1.2715)+(0.0279)Ser+(-0.0341)Arg+(0.0041)Pro+(-0.0313)Val+(0.0241)Leu+(0.0463)Phe;0.687,0.742,0.648,0.609,0.666,0.755,0.637,0.667,(-2.2290)+(0.0341)Ser+(-0.0257)Thr+(-0.1085)Cit+(-0.0037)Pro+(0.0319)Orn+(0.0298)Ile;0.687,0.735,0.776,0.800,0.787,0.802,0.673,0.765,(5.1842)+(-0.0559)Asn+(0.0032)Gly+(-0.0637)Cit+(0.0058)Arg+(-0.0052)Val+(-0.1114)Met;0.687,0.741,0.769,0.825,0.715,0.781,0.722,0.761,(2.0742)+(-0.0053)Ala+(-0.0144)Arg+(-0.0487)Tyr+(-0.0110)Val+(-0.0030)Lys+(0.0874)Phe;0.687,0.740,0.735,0.768,0.717,0.763,0.664,0.728,(1.7306)+(0.0031)Gln+(0.0079)Pro+(-0.0190)Tyr+(-0.2352)Met+(0.0175)Orn+(-0.0037)Leu;0.687,0.731,0.751,0.771,0.752,0.756,0.694,0.743,(3.6458)+(-0.0426)Asn+(0.0016)Gly+(0.0080)Pro+(-0.1900)Met+(-0.0011)Lys+(-0.0016)Leu;0.687,0.744,0.715,0.751,0.728,0.755,0.567,0.700,(3.4200)+(0.0219)Thr+(-0.0175)Arg+(0.0084)Pro+(-0.0203)Tyr+(-0.2518)Met+(0.0006)Leu;0.687,0.738,0.771,0.802,0.761,0.783,0.702,0.762,(1.8051)+(-0.0005)Gly+(0.0053)Gln+(-0.0134)Arg+(0.0077)Pro+(-0.2400)Met+(-0.0030)Lys;0.687,0.737,0.700,0.747,0.676,0.654,0.659,0.684,(2.3361)+(-0.1291)Asn+(0.0004)Gly+(0.0145)Thr+(0.0036)Pro+(-0.0758)Tyr+(0.0691)Phe;0.687,0.735,0.724,0.742,0.734,0.755,0.632,0.716,(2.8826)+(-0.0005)Gly+(0.0179)Thr+(0.0067)Pro+(-0.2764)Met+(-0.0066)Lys+(0.0034)Leu;0.687,0.732,0.767,0.796,0.723,0.797,0.759,0.769,(4.8097)+(-0.0664)Asn+(-0.0081)Ala+(-0.0070)Arg+(0.0127)Pro+(-0.0307)Tyr+(-0.0010)Lys;0.687,0.733,0.773,0.786,0.748,0.825,0.752,0.778,(4.2027)+(-0.0830)Asn+(-0.0089)Ala+(-0.0138)Arg+(0.0101)Pro+(0.0277)Orn+(-0.0101)Leu;0.687,0.734,0.795,0.825,0.778,0.813,0.738,0.789,(3.6935)+(-0.1266)Asn+(0.0074)Gln+(-0.0632)Cit+(-0.0055)Arg+(0.0069)Pro+(-0.0131)Val;0.687,0.736,0.762,0.784,0.780,0.784,0.654,0.751,(4.6769)+(-0.0505)Asn+(0.0035)Gly+(-0.0695)Cit+(0.0060)Arg+(-0.0040)Tyr+(-0.1300)Met;0.687,0.735,0.772,0.795,0.782,0.783,0.681,0.760,(

1.9370)+(0.0011)Gly+(0.0059)Gln+(-0.0759)Cit+(-0.0049)Tyr+(-0.2193)Me
t+(0.0055)Leu;0.687,0.736,0.807,0.824,0.805,0.828,0.748,0.801,(5.7462
)+(-0.0428)Asn+(-0.0037)Ala+(-0.0582)Cit+(-0.0002)Tyr+(-0.0033)Val+(-
0.0815)Met;0.687,0.734,0.755,0.801,0.754,0.773,0.623,0.738,(2.2493)+(
-0.0026)Gly+(0.0050)Gln+(0.0224)Thr+(-0.0211)Arg+(-0.0153)Tyr+(-0.252
5)Met;0.687,0.738,0.712,0.748,0.716,0.798,0.546,0.702,(1.8109)+(0.026
5)Ser+(-0.0016)Thr+(-0.0599)Cit+(-0.0129)Arg+(-0.0336)Tyr+(-0.0057)Va
l;0.687,0.740,0.796,0.823,0.771,0.831,0.754,0.795,(3.6170)+(-0.1308)A
sn+(-0.0009)Gly+(0.0046)Gln+(-0.0160)Val+(0.0331)Orn+(-0.0036)Lys;0.6
87,0.738,0.796,0.799,0.784,0.835,0.788,0.801,(5.2289)+(-0.0656)Asn+(-
0.0071)Ala+(-0.0770)Cit+(0.0096)Arg+(-0.0062)Lys+(0.0075)Leu;0.687,0.
738,0.593,0.624,0.539,0.653,0.579,0.599,(-2.7870)+(0.0247)Ser+(0.0002
)Pro+(-0.0879)Tyr+(-0.0041)Orn+(0.0284)Ile+(0.0409)Phe;0.687,0.744,0.
645,0.618,0.637,0.799,0.620,0.668,(1.0414)+(0.0311)Ser+(-0.0037)Gln+(
-0.0349)Val+(0.0286)Orn+(-0.0
223)Lys+(0.0507)Leu;0.687,0.741,0.750,0.770,0.741,0.787,0.692,0.747,(
1.6724)+(0.0036)Gln+(0.0066)Pro+(-0.2454)Met+(0.0189)Orn+(-0.0080)Lys
+(-0.0002)Leu;0.687,0.739,0.737,0.763,0.735,0.769,0.649,0.729,(1.6015
)+(0.0036)Gln+(0.0154)Thr+(0.0064)Pro+(-0.2895)Met+(-0.0081)Lys+(0.00
37)Leu;0.687,0.738,0.714,0.772,0.705,0.717,0.582,0.694,(1.8778)+(0.01
36)Thr+(-0.0555)Cit+(-0.0164)Arg+(-0.0709)Tyr+(-0.0139)Val+(0.0916)Ph
e;0.687,0.736,0.769,0.794,0.755,0.811,0.704,0.766,(3.5458)+(-0.0003)G
ly+(-0.0047)Ala+(-0.0129)Arg+(-0.0106)Tyr+(-0.1504)Met+(0.0313)Orn;0.
687,0.736,0.770,0.767,0.753,0.830,0.767,0.779,(4.0629)+(-0.0116)Ala+(
-0.0841)Cit+(0.0038)Arg+(0.0123)Pro+(-0.0102)Lys+(0.0046)Leu;0.687,0.
735,0.749,0.795,0.752,0.786,0.591,0.731,(2.1573)+(0.0046)Gln+(0.0214)
Thr+(-0.0195)Arg+(-0.0113)Tyr+(-0.2464)Met+(-0.0036)Lys;0.687,0.738,0
.683,0.668,0.689,0.751,0.661,0.692,(-1.1671)+(0.0441)Ser+(-0.0081)Gly

+(-0.0236)Arg+(0.0173)Orn+(-0.0259)Lys+(0.0373)Phe;0.687,0.737,0.792,0.821,0.793,0.813,0.696,0.781,(2.4942)+(0.0005)Gly+(0.0061)Gln+(-0.0695)Cit+(-0.0038)Val+(-0.1932)Met+(-0.0015)Lys;0.687,0.742,0.719,0.754,0.640,0.836,0.708,0.735,(0.9363)+(0.0269)Ser+(-0.0103)Thr+(-0.0088)Ala+(0.0149)Pro+(-0.0308)Tyr+(-0.0077)Val;0.687,0.741,0.688,0.749,0.634,0.693,0.636,0.678,(0.7270)+(-0.0016)Thr+(0.0056)Pro+(-0.0742)Tyr+(-0.0189)Val+(0.0245)Orn+(0.0725)Phe;0.687,0.736,0.762,0.769,0.739,0.808,0.757,0.768,(2.0354)+(-0.0126)Ala+(-0.0799)Cit+(-0.0071)Arg+(0.0113)Pro+(-0.0099)Leu+(0.0523)Phe;0.687,0.734,0.805,0.837,0.790,0.832,0.735,0.798,(3.4629)+(-0.1240)Asn+(0.0016)Gly+(0.0075)Gln+(-0.0709)Cit+(-0.0092)Val+(-0.0021)Lys;0.687,0.734,0.766,0.777,0.748,0.840,0.724,0.772,(3.9867)+(0.0025)Gly+(-0.0107)Ala+(-0.0805)Cit+(0.0135)Pro+(-0.0038)Val+(-0.0067)Lys;0.687,0.743,0.663,0.696,0.663,0.772,0.499,0.657,(0.7969)+(0.0283)Ser+(-0.0228)Arg+(0.0060)Pro+(-0.0467)Tyr+(0.0229)Orn+(-0.0148)Lys;0.687,0.740,0.754,0.800,0.765,0.804,0.573,0.735,(4.0542)+(0.0238)Thr+(-0.0169)Arg+(-0.0064)Tyr+(-0.0077)Val+(-0.2238)Met+(0.0017)Lys;0.687,0.731,0.770,0.801,0.726,0.801,0.754,0.771,(4.9141)+(-0.0669)Asn+(-0.0079)Ala+(-0.0075)Arg+(0.0130)Pro+(-0.0302)Tyr+(-0.0032)Leu;0.687,0.728,0.768,0.781,0.733,0.819,0.771,0.776,(3.7898)+(-0.0990)Asn+(0.0008)Gly+(-0.0092)Ala+(0.0101)Pro+(0.0234)Orn+(-0.0094)Leu;0.687,0.740,0.720,0.794,0.687,0.728,0.589,0.699,(0.9694)+(0.0018)Gln+(0.0131)Thr+(-0.0286)Arg+(-0.0708)Tyr+(-0.0163)Val+(0.0879)Phe;0.687,0.737,0.671,0.669,0.635,0.783,0.675,0.690,(-1.3620)+(0.0333)Ser+(-0.0061)Thr+(-0.0291)Val+(-0.0221)Lys+(0.0359)Leu+(0.0471)Phe;0.687,0.738,0.706,0.744,0.673,0.782,0.618,0.704,(3.2197)+(-0.0234)Arg+(0.0068)Pro+(-0.0461)Tyr+(-0.0310)Val+(0.0349)Orn+(0.0322)Leu;0.687,0.737,0.774,0.813,0.756,0.796,0.691,0.764,(2.4393)+(0.0050)Gln+(-0.0152)Arg+(0.0109)Pro+(-0.0111)Val+(-0.2292)Met+(0.0035)Lys;0.687,0.742,0.616,0.645,

0.583,0.673,0.566,0.617,(-1.6603)+(0.0350)Ser+(-0.0037)Gln+(-0.0136)Thr+(-0.0726)Tyr+(0.0146)Orn+(0.0602)Phe;0.687,0.739,0.744,0.787,0.727,0.754,0.660,0.732,(0.8556)+(0.0046)Gln+(-0.0802)Cit+(-0.0648)Tyr+(-0.0142)Lys+(-0.0088)Leu+(0.0850)Phe;0.687,0.738,0.733,0.774,0.701,0.749,0.678,0.725,(2.3079)+(-0.1168)Asn+(0.0052)Gln+(0.0138)Thr+(-0.0222)Arg+(-0.0572)Tyr+(0.0332)Ile;0.687,0.737,0.663,0.648,0.698,0.793,0.534,0.668,(1.2603)+(0.0212)Ser+(-0.0034)Gln+(-0.1004)Cit+(0.0028)Pro+(-0.0150)Val+(0.0448)Orn;0.687,0.735,0.750,0.768,0.702,0.813,0.758,0.760,(1.4554)+(-0.0084)Ala+(-0.0241)Arg+(-0.0326)Val+(0.0324)Orn+(0.0338)Leu+(0.0483)Phe;0.687,0.732,0.686,0.715,0.665,0.752,0.604,0.684,(-1.5595)+(0.0323)Ser+(-0.0102)Thr+(-0.0300)Arg+(0.0056)Pro+(-0.0185)Val+(0.0544)Phe;0.687,0.741,0.708,0.713,0.673,0.757,0.734,0.719,(-1.0920)+(0.0433)Ser+(-0.0082)Gly+(-0.0077)Thr+(-0.0123)Val+(-0.0192)Lys+(0.0563)Phe;0.687,0.734,0.710,0.735,0.690,0.719,0.680,0.706,(3.4332)+(-0.0815)Asn+(-0.0147)Arg+(0.0015)Pro+(-0.0544)Tyr+(0.0211)Orn+(0.0287)Ile;0.687,0.732,0.708,0.703,0.723,0.776,0.643,0.711,(1.3557)+(-0.0843)Cit+(-0.0182)Arg+(-0.0310)Val+(0.0492)Orn+(0.0235)Leu+(0.0379)Phe;0.687,0.741,0.823,0.864,0.800,0.828,0.755,0.812,(3.0914)+(-0.0754)Asn+(-0.0005)Gly+(0.0074)Gln+(-0.0102)Arg+(-0.0086)Val+(-0.1278)Met;0.687,0.738,0.804,0.819,0.801,0.826,0.755,0.800,(5.6230)+(-0.0468)Asn+(-0.0039)Ala+(-0.0638)Cit+(0.0068)Arg+(-0.0031)Val+(-0.0869)Met;0.687,0.737,0.692,0.736,0.656,0.661,0.674,0.682,(2.0439)+(-0.1261)Asn+(0.0007)Gly+(0.0134)Thr+(-0.0750)Tyr+(0.0218)Ile+(0.0578)Phe;0.687,0.743,0.750,0.785,0.759,0.769,0.623,0.734,(5.4714)+(-0.0982)Asn+(0.0180)Thr+(-0.0639)Cit+(-0.0044)Arg+(-0.0393)Tyr+(-0.0019)Leu;0.687,0.736,0.675,0.697,0.684,0.709,0.575,0.666,(1.1190)+(0.0000)Gly+(0.0000)Thr+(-0.1067)Cit+(-0.0786)Tyr+(0.0420)Orn+(0.0528)Phe;0.687,0.734,0.738,0.775,0.732,0.785,0.615,0.727,(2.0035)+(0.0031)Gln+(0.0139)Thr+(-0.0143)Tyr+(-0.2

341)Met+(0.0186)Orn+(-0.0087)Lys;0.687,0.734,0.805,0.836,0.796,0.803,0.742,0.794,(2.2129)+(-0.0624)Asn+(-0.0001)Gly+(0.0070)Gln+(-0.0109)Arg+(-0.1702)Met+(-0.0012)Lys;0.687,0.729,0.719,0.740,0.704,0.738,0.682,0.716,(-1.5025)+(0.0421)Ser+(-0.0071)Gly+(-0.0125)Thr+(-0.0287)Arg+(-0.0200)Leu+(0.0483)Phe;0.687,0.743,0.712,0.773,0.693,0.729,0.579,0.694,(1.8727)+(0.0181)Thr+(-0.0233)Arg+(-0.0689)Tyr+(-0.0145)Val+(-0.0091)Lys+(0.0924)Phe;0.687,0.737,0.762,0.780,0.768,0.780,0.685,0.753,(4.5419)+(-0.0554)Cit+(-0.0010)Arg+(0.0111)Pro+(-0.0089)Val+(-0.1997)Met+(0.0034)Lys;0.687,0.737,0.800,0.816,0.799,0.815,0.746,0.794,(5.4039)+(-0.0397)Asn+(-0.0045)Ala+(-0.0622)Cit+(-0.0021)Tyr+(-0.0935)Met+(0.0016)Lys;0.687,0.736,0.680,0.694,0.651,0.715,0.683,0.685,(1.3704)+(-0.0007)Pro+(-0.0687)Tyr+(0.0182)Orn+(-0.0237)Lys+(0.0351)Ile+(0.0448)Phe;0.686,0.735,0.764,0.787,0.785,0.782,0.648,0.750,(4.7300)+(-0.0475)Asn+(0.0035)Gly+(-0.0649)Cit+(-0.0041)Tyr+(-0.1275)Met+(0.0009)Lys;0.686,0.731,0.709,0.700,0.726,0.786,0.640,0.713,(1.2132)+(0.0393)Ser+(-0.0062)Gly+(-0.0663)Cit+(-0.0078)Arg+(-0.0189)Lys+(0.0023)Leu;0.686,0.746,0.699,0.703,0.650,0.820,0.704,0.719,(0.0816)+(0.0274)Ser+(-0.0107)Ala+(0.0099)Pro+(0.0165)Orn+(-0.0204)Lys+(0.0019)Leu;0.686,0.740,0.698,0.734,0.708,0.779,0.522,0.686,(1.1608)+(0.0256)Ser+(0.0008)Gln+(-0.0666)Cit+(-0.0145)Arg+(-0.0426)Tyr+(-0.0015)Leu;0.686,0.737,0.788,0.812,0.790,0.826,0.696,0.781,(4.5094)+(0.0025)Gly+(-0.0043)Ala+(-0.0669)Cit+(-0.0016)Val+(-0.1340)Met+(0.0013)Lys;0.686,0.732,0.713,0.733,0.623,0.784,0.794,0.734,(1.5027)+(0.0004)Gln+(-0.0015)Thr+(-0.0121)Ala+(0.0079)Pro+(-0.0490)Tyr+(0.0453)Ile;0.686,0.735,0.692,0.691,0.668,0.752,0.703,0.704,(-0.5061)+(0.0428)Ser+(-0.0081)Gly+(-0.0020)Gln+(-0.0131)Val+(-0.0207)Lys+(0.0589)Phe;0.686,0.734,0.762,0.795,0.746,0.772,0.699,0.753,(5.9565)+(-0.0866)Asn+(-0.0523)Cit+(0.0100)Pro+(-0.0303)Tyr+(-0.0115)Val+(0.0032)Lys;0.686,0.735,0.784,0.811,0.790,0.806,0

.684,0.773,(2.2691)+(0.0008)Gly+(0.0063)Gln+(-0.0722)Cit+(-0.0020)Arg+(-0.1991)Met+(-0.0033)Lys;0.686,0.742,0.584,0.525,0.600,0.727,0.600,0.613,(-1.6988)+(0.0390)Ser+(-0.0038)Gln+(0.0076)Orn+(-0.0337)Lys+(0.0409)Ile+(0.0216)Phe;0.686,0.741,0.714,0.719,0.748,0.727,0.620,0.704,(2.0450)+(-0.1410)Asn+(0.0057)Gly+(0.0076)Thr+(-0.0861)Cit+(0.0006)Pro+(0.0484)Phe;0.686,0.740,0.763,0.812,0.696,0.786,0.754,0.762,(2.0129)+(-0.0060)Ala+(-0.0159)Arg+(-0.0471)Tyr+(-0.0238)Val+(0.0260)Leu+(0.0782)Phe;0.686,0.739,0.767,0.797,0.752,0.777,0.711,0.759,(5.2916)+(-0.0498)Asn+(-0.0048)Arg+(0.0115)Pro+(-0.0118)Tyr+(-0.0108)Val+(-0.1264)Met;0.686,0.737,0.761,0.758,0.726,0.832,0.791,0.777,(4.2167)+(-0.0105)Ala+(-0.0690)Cit+(0.0127)Pro+(-0.0225)Val+(-0.0089)Lys+(0.0376)Leu;0.686,0.736,0.615,0.576,0.612,0.741,0.637,0.641,(-2.4178)+(0.0336)Ser+(-0.0047)Pro+(0.0060)Orn+(-0.0350)Lys+(0.0456)Ile+(0.0186)Phe;0.686,0.731,0.663,0.686,0.660,0.743,0.551,0.660,(-0.8199)+(0.0316)Ser+(-0.0026)Gln+(-0.0323)Arg+(0.0054)Pro+(-0.0197)Val+(0.0576)Phe;0.686,0.733,0.781,0.810,0.748,0.819,0.746,0.781,(2.0198)+(-0.0016)Gly+(0.0035)Gln+(-0.0047)Ala+(-0.0106)Tyr+(-0.1890)Met+(0.0233)Orn;0.686,0.728,0.708,0.763,0.687,0.696,0.616,0.691,(0.6321)+(0.0027)Gln+(-0.0787)Cit+(0.0061)Pro+(-0.0772)Tyr+(-0.0189)Leu+(0.0810)Phe;0.686,0.736,0.805,0.824,0.802,0.820,0.748,0.799,(5.6242)+(-0.0473)Asn+(-0.0036)Ala+(-0.0577)Cit+(-0.0044)Val+(-0.0910)Met+(0.0038)Lys;0.686,0.732,0.732,0.770,0.711,0.741,0.669,0.723,(4.3728)+(-0.0948)Asn+(-0.0007)Gly+(0.0064)Pro+(-0.0465)Tyr+(0.0297)Orn+(-0.0127)Leu;0.686,0.737,0.775,0.818,0.727,0.812,0.734,0.772,(3.1756)+(-0.1199)Asn+(0.0041)Gln+(0.0088)Thr+(-0.0060)Ala+(-0.0376)Tyr+(0.0221)Orn;0.686,0.735,0.665,0.681,0.635,0.709,0.650,0.669,(1.2632)+(0.0061)Thr+(-0.0735)Tyr+(0.0155)Orn+(-0.0256)Lys+(0.0345)Ile+(0.0473)Phe;0.686,0.733,0.747,0.773,0.741,0.747,0.689,0.737,(3.9848)+(-0.0453)Asn+(0.0012)Gly+(0.0088)Pro+(-0.0170)Tyr+(-0.16

26)Met+(-0.0020)Leu;0.686,0.728,0.711,0.700,0.715,0.790,0.672,0.719,(2.1043)+(-0.0076)Thr+(-0.0968)Cit+(0.0018)Pro+(-0.0294)Val+(0.0517)Orn+(0.0272)Leu;0.686,0.740,0.770,0.782,0.777,0.757,0.731,0.762,(1.0734)+(-0.1567)Asn+(0.0070)Gln+(0.0084)Thr+(-0.0820)Cit+(-0.0093)Arg+(0.0399)Phe;0.686,0.739,0.785,0.805,0.787,0.824,0.697,0.778,(4.3934)+(0.0027)Gly+(-0.0047)Ala+(-0.0724)Cit+(0.0047)Arg+(-0.1360)Met+(-0.0004)Lys;0.686,0.735,0.760,0.804,0.711,0.776,0.737,0.757,(2.0229)+(-0.0003)Gly+(-0.0068)Ala+(-0.0119)Arg+(-0.0498)Tyr+(-0.0083)Lys+(0.0732)Phe;0.686,0.740,0.779,0.793,0.780,0.756,0.759,0.772,(0.9747)+(-0.1439)Asn+(0.0074)Gln+(-0.0818)Cit+(-0.0066)Arg+(-0.0003)Pro+(0.0409)Phe;0.686,0.737,0.751,0.788,0.711,0.753,0.731,0.746,(2.0296)+(-0.1027)Asn+(0.0002)Gly+(0.0057)Gln+(-0.0174)Arg+(-0.0505)Tyr+(0.0341)Ile;0.686,0.736,0.778,0.803,0.792,0.804,0.664,0.766,(5.2943)+(-0.0524)Asn+(0.0031)Gly+(-0.0591)Cit+(-0.0002)Tyr+(-0.0052)Val+(-0.1053)Met;0.686,0.748,0.744,0.787,0.709,0.851,0.624,0.743,(1.4093)+(0.0281)Ser+(0.0015)Thr+(-0.0054)Ala+(-0.0176)Arg+(-0.0235)Tyr+(-0.0086)Lys;0.686,0.744,0.751,0.801,0.714,0.859,0.616,0.748,(1.5779)+(0.0258)Ser+(0.0004)Thr+(-0.0050)Ala+(-0.0212)Arg+(-0.0239)Tyr+(-0.0057)Val;0.686,0.735,0.738,0.748,0.687,0.830,0.754,0.755,(2.7860)+(-0.0097)Ala+(-0.0226)Arg+(0.0103)Pro+(-0.0335)Val+(0.0309)Orn+(0.0400)Leu;0.686,0.730,0.768,0.788,0.759,0.795,0.714,0.764,(1.7517)+(-0.0015)Gly+(0.0041)Gln+(-0.2245)Met+(0.0224)Orn+(-0.0091)Lys+(0.0026)Leu;0.686,0.734,0.764,0.787,0.736,0.807,0.728,0.765,(1.7103)+(-0.0074)Ala+(-0.0205)Arg+(-0.0145)Val+(0.0337)Orn+(-0.0084)Lys+(0.0597)Phe;0.6

86,0.729,0.713,0.703,0.717,0.792,0.673,0.721,(2.1278)+(0.0001)Gly+(-0.0072)Thr+(-0.0976)Cit+(-0.0292)Val+(0.0525)Orn+(0.0279)Leu;0.686,0.743,0.659,0.648,0.637,0.796,0.636,0.679,(0.0449)+(0.0266)Ser+(0.0026)Pro+(-0.0335)Val+(0.0236)Orn+(-0.0244)Lys+(0.0456)Leu;0.686,0.736,0.77

5,0.799,0.772,0.808,0.694,0.768,(1.9562)+(-0.0015)Gly+(0.0049)Gln+(-0.0153)Arg+(-0.2112)Met+(0.0251)Orn+(-0.0062)Lys;0.686,0.739,0.747,0.776,0.730,0.798,0.668,0.743,(2.7115)+(0.0149)Thr+(-0.0050)Ala+(-0.0112)Tyr+(-0.2240)Met+(0.0184)Orn+(0.0047)Leu;0.686,0.741,0.717,0.727,0.751,0.731,0.612,0.705,(2.1272)+(-0.1381)Asn+(0.0056)Gly+(0.0090)Thr+(-0.0826)Cit+(-0.0048)Arg+(0.0494)Phe;0.686,0.737,0.782,0.803,0.787,0.797,0.704,0.773,(2.2152)+(0.0065)Gln+(-0.0743)Cit+(-0.0053)Tyr+(-0.2022)Met+(-0.0063)Lys+(0.0081)Leu;0.686,0.731,0.747,0.772,0.751,0.787,0.642,0.738,(5.3248)+(-0.1213)Asn+(0.0027)Gly+(0.0117)Thr+(-0.0619)Cit+(0.0074)Pro+(-0.0135)Val;0.686,0.741,0.767,0.783,0.748,0.816,0.726,0.768,(3.3062)+(-0.0049)Ala+(-0.0089)Tyr+(-0.1580)Met+(0.0295)Orn+(-0.0072)Lys+(0.0056)Leu;0.686,0.739,0.790,0.811,0.795,0.831,0.698,0.784,(4.4678)+(0.0028)Gly+(-0.0045)Ala+(-0.0678)Cit+(0.0060)Tyr+(-0.0014)Val+(-0.1388)Met;0.686,0.727,0.692,0.700,0.709,0.795,0.561,0.691,(1.3281)+(0.0297)Ser+(-0.0637)Cit+(-0.0115)Arg+(0.0064)Pro+(-0.0075)Val+(-0.0142)Lys;0.686,0.739,0.709,0.748,0.713,0.732,0.585,0.694,(2.1956)+(0.0157)Thr+(-0.0770)Cit+(-0.0713)Tyr+(-0.0170)Lys+(-0.0083)Leu+(0.0894)Phe;0.686,0.738,0.704,0.730,0.681,0.739,0.661,0.703,(4.0050)+(-0.0809)Asn+(0.0175)Thr+(-0.0133)Arg+(-0.0533)Tyr+(-0.0122)Lys+(0.0423)Ile;0.686,0.736,0.707,0.736,0.667,0.733,0.692,0.707,(0.8302)+(0.0029)Gln+(-0.0166)Arg+(-0.0662)Tyr+(-0.0191)Lys+(0.0371)Ile+(0.0469)Phe;0.686,0.727,0.759,0.765,0.735,0.826,0.745,0.768,(2.2382)+(0.0019)Gly+(0.0021)Gln+(-0.0017)Thr+(-0.0127)Ala+(-0.0918)Cit+(0.0121)Pro;0.686,0.739,0.780,0.826,0.747,0.826,0.694,0.773,(5.4588)+(-0.1052)Asn+(0.0170)Thr+(-0.0036)Ala+(-0.0241)Tyr+(-0.0089)Val+(-0.0005)Lys;0.686,0.735,0.757,0.780,0.749,0.797,0.684,0.753,(5.0115)+(-0.1087)Asn+(-0.0149)Arg+(0.0069)Pro+(-0.0191)Val+(0.0377)Orn+(0.0011)Lys;0.686,0.738,0.792,0.808,0.773,0.818,0.772,0.793,(5.3577)+(-0.0672)Asn+(-0.0063)Ala+(-0.0714

)Cit+(0.0063)Arg+(-0.0181)Tyr+(0.0055)Leu;0.686,0.738,0.758,0.800,0.767,0.802,0.594,0.741,(4.3594)+(-0.0015)Gly+(0.0250)Thr+(-0.0161)Arg+(-0.0084)Tyr+(-0.0074)Val+(-0.2161)Met;0.686,0.748,0.750,0.795,0.712,0.854,0.637,0.749,(1.1985)+(0.0278)Ser+(0.0007)Gln+(-0.0054)Ala+(-0.0177)Arg+(-0.0233)Tyr+(-0.0086)Lys;0.686,0.737,0.741,0.783,0.724,0.740,0.664,0.728,(2.4300)+(-0.0615)Cit+(-0.0029)Arg+(-0.0576)Tyr+(-0.0103)Val+(-0.0079)Lys+(0.0896)Phe;0.686,0.735,0.791,0.820,0.791,0.811,0.697,0.780,(2.4754)+(0.0005)Gly+(0.0060)Gln+(-0.0692)Cit+(-0.0016)Tyr+(-0.0042)Val+(-0.1949)Met;0.686,0.731,0.682,0.671,0.682,0.742,0.665,0.690,(-1.2363)+(0.0454)Ser+(-0.0079)Gly+(-0.0227)Arg+(0.0020)Pro+(-0.0240)Lys+(0.0398)Phe;0.686,0.739,0.670,0.697,0.648,0.684,0.635,0.666,(0.3344)+(0.0019)Gln+(0.0021)Thr+(-0.0869)Cit+(-0.0810)Tyr+(0.0304)Ile+(0.0444)Phe;0.686,0.738,0.742,0.794,0.691,0.765,0.691,0.735,(1.5497)+(0.0114)Thr+(-0.0069)Ala+(-0.0594)Tyr+(-0.0141)Lys+(-0.0065)Leu+(0.0814)Phe;0.686,0.733,0.797,0.813,0.753,0.836,0.816,0.804,(2.9340)+(-0.1000)Asn+(0.0001)Gly+(0.0045)Gln+(-0.0090)Ala+(0.0097)Pro+(-0.0072)Lys;0.686,0.742,0.786,0.816,0.766,0.827,0.719,0.782,(3.6862)+(-0.1423)Asn+(0.0041)Gln+(0.0077)Thr+(-0.0164)Val+(0.0304)Orn+(-0.0044)Lys;0.686,0.736,0.727,0.754,0.716,0.752,0.662,0.721,(2.9614)+(-0.0008)Gly+(0.0081)Pro+(-0.0215)Tyr+(-0.2097)Met+(0.0228)Orn+(-0.0044)Leu;0.686,0.739,0.619,0.574,0.613,0.748,0.658,0.648,(-1.4537)+(0.0414)Ser+(-0.0021)Gln+(-0.0133)Thr+(-0.0021)Pro+(-0.0267)Lys+(0.0530)Ile;0.686,0.728,0.760,0.777,0.733,0.805,0.737,0.763,(0.5783)+(0.0022)Gly+(0.0019)Gln+(-0.0108)Ala+(-0.0918)Cit+(-0.0062)Leu+(0.0552)Phe;0.686,0.739,0.786,0.807,0.788,0.826,0.698,0.780,(4.4513)+(0.0026)Gly+(-0.0045)Ala+(-0.0707)Cit+(0.0042)Arg+(-0.0011)Val+(-0.1351)Met;0.686,0.732,0.761,0.783,0.738,0.805,0.717,0.761,(1.5036)+(0.0028)Gly+(-0.0088)Ala+(-0.0734)Cit+(-0.0078)Arg+(-0.0091)Val+(0.0674)Phe;0.686,0.730,0.678,0.673,0.710,

0.785,0.548,0.679,(0.7734)+(0.0316)Ser+(-0.0748)Cit+(-0.0082)Arg+(0.0041)Pro+(-0.0193)Lys+(0.0008)Leu;0.686,0.728,0.752,0.772,0.726,0.799,0.720,0.754,(1.2716)+(0.0024)Gly+(0.0026)Thr+(-0.0095)Ala+(-0.0818)Cit+(-0.0089)Val+(0.0638)Phe;0.686,0.740,0.769,0.779,0.774,0.749,0.747,0.762,(1.0360)+(-0.1615)Asn+(0.0067)Gln+(0.0071)Thr+(-0.0877)Cit+(-0.0011)Pro+(0.0406)Phe;0.686,0.738,0.752,0.806,0.668,0.780,0.764,0.755,(1.1497)+(0.0007)Gln+(-0.0067)Ala+(-0.0521)Tyr+(-0.0239)Val+(0.0256)Leu+(0.0724)Phe;0.686,0.737,0.748,0.775,0.746,0.752,0.677,0.738,(4.0462)+(-0.0402)Asn+(0.0014)Gly+(-0.0066)Arg+(0.0087)Pro+(-0.0167)Tyr+(-0.1617)Met;0.686,0.733,0.708,0.727,0.621,0.782,0.788,0.730,(1.5471)+(-0.0026)Thr+(-0.0120)Ala+(0.0078)Pro+(-0.0494)Tyr+(0.0083)Orn+(0.0428)Ile;0.686,0.730,0.771,0.785,0.744,0.808,0.763,0.775,(0.8003)+(0.0023)Gln+(0.0005)Thr+(-0.0107)Ala+(-0.0890)Cit+(-0.0066)Leu+(0.0528)Phe;0.686,0.735,0.699,0.745,0.675,0.660,0.657,0.684,(2.2899)+(-0.1282)Asn+(0.0122)Thr+(0.0029)Pro+(-0.0764)Tyr+(0.0135)Orn+(0.0644)Phe;0.686,0.733,0.783,0.794,0.758,0.841,0.761,0.789,(3.1215)+(0.0035)Gln+(-0.0108)Ala+(-0.0825)Cit+(0.0125)Pro+(-0.0037)Val+(-0.0091)Lys;0.686,0.732,0.734,0.735,0.762,0.810,0.621,0.732,(2.8565)+(-0.0001)Gly+(-0.0038)Thr+(-0.0909)Cit+(-0.0132)Arg+(-0.0149)Val+(0.0532)Orn;0.686,0.736,0.762,0.801,0.751,0.786,0.662,0.750,(2.2018)+(-0.0027)Gly+(0.0043)Gln+(0.0188)Thr+(-0.0139)Tyr+(-0.2445)Met+(-0.0067)Lys;0.686,0.736,0.708,0.739,0.651,0.754,0.711,0.714,(1.2962)+(0.0385)Ser+(-0.0104)Gly+(-0.0080)Thr+(0.0099)Pro+(-0.0517)Tyr+(-0.0110)Val;0.686,0.738,0.759,0.790,0.694,0.837,0.757,0.769,(1.4792)+(0.0356)Ser+(-0.0088)Gly+(-0.0039)Thr+(-0.0049)Ala+(-0.0334)Tyr+(-0.0057)Val;0.686,0.732,0.759,0.776,0.741,0.807,0.713,0.759,(1.3011)+(0.0030)Gly+(-0.0101)Ala+(-0.0826)Cit+(-0.0067)Arg+(-0.0064)Leu+(0.0604)Phe;0.686,0.740,0.716,0.711,0.645,0.810,0.811,0.744,(-0.1379)+(0.0411)Ser+(-0.0063)Gly+(-0.0015)Gln+(-0.0166)T

hr+(-0.0114)Ala+(0.0125)Pro;0.685,0.738,0.752,0.776,0.735,0.793,0.695,0.750,(4.6976)+(-0.1338)Asn+(-0.0000)Gly+(0.0068)Thr+(0.0064)Pro+(-0.0195)Val+(0.0318)Orn;0.685,0.734,0.763,0.796,0.757,0.801,0.661,0.754,(2.0629)+(0.0045)Gln+(-0.0155)Arg+(-0.0128)Tyr+(-0.1902)Met+(0.0262)Orn+(-0.0057)Lys;0.685,0.737,0.770,0.798,0.741,0.807,0.733,0.770,(4.5465)+(-0.0768)Asn+(-0.0053)Ala+(-0.0291)Tyr+(0.0343)Orn+(-0.0061)Lys+(-0.0017)Leu;0.685,0.735,0.806,0.840,0.790,0.827,0.731,0.797,(3.4511)+(-0.1244)Asn+(0.0015)Gly+(0.0076)Gln+(-0.0674)Cit+(-0.0044)Arg+(-0.0098)Val;0.685,0.733,0.769,0.814,0.708,0.778,0.770,0.768,(1.1556)+(-0.0021)Gly+(0.0030)Gln+(-0.0071)Ala+(-0.0548)Tyr+(-0.0134)Lys+(0.0699)Phe;0.685,0.733,0.760,0.797,0.724,0.796,0.715,0.758,(4.4038)+(-0.0995)Asn+(-0.0009)Gly+(0.0108)Thr+(-0.0060)Ala+(-0.0381)Tyr+(0.0262)Orn;0.685,0.737,0.693,0.733,0.661,0.665,0.673,0.683,(2.1162)+(-0.1249)Asn+(0.0122)Thr+(-0.0759)Tyr+(0.0097)Orn+(0.0186)Ile+(0.0556)Phe;0.685,0.734,0.688,0.682,0.691,0.805,0.615,0.698,(1.2571)+(0.0309)Ser+(-0.0606)Cit+(-0.0066)Arg+(-0.0246)Val+(-0.0183)Lys+(0.0403)Leu;0.685,0.742,0.725,0.731,0.649,0.854,0.778,0.753,(-0.0760)+(0.0249)Ser+(-0.0135)Thr+(-0.0081)Ala+(-0.0303)Val+(0.0259)Orn+(0.0411)Leu;0.685,0.739,0.726,0.763,0.710,0.736,0.655,0.716,(0.9368)+(0.0044)Gln+(-0.0822)Cit+(0.0042)Pro+(-0.0688)Tyr+(-0.0175)Lys+(0.0748)Phe;0.685,0.738,0.799,0.813,0.797,0.819,0.754,0.796,(5.3814)+(-0.0430)Asn+(-0.0046)Ala+(-0.0676)Cit+(0.0073)Arg+(-0.0017)Tyr+(-0.0936)Met;0.685,0.735,0.764,0.779,0.780,0.736,0.714,0.752,(3.1832)+(-0.1068)Asn+(-0.0666)Cit+(-0.0025)Arg+(0.0037)Pro+(-0.0195)Leu+(0.0631)Phe;0.685,0.735,0.746,0.749,0.703,0.801,0.787,0.760,(2.0429)+(-0.0120)Ala+(-0.0746)Cit+(0.0114)Pro+(-0.0216)Val+(0.0239)Leu+(0.0469)Phe;0.685,0.734,0.771,0.804,0.737,0.802,0.733,0.769,(4.4496)+(-0.0851)Asn+(-0.0003)Gly+(-0.0053)Ala+(-0.0314)Tyr+(0.0323)Orn+(-0.0047)Leu;0.685,0.734,0.763,0.771,0.725,0.819,0.779,0.

774,(3.3502)+(-0.1059)Asn+(0.0010)Gly+(0.0032)Thr+(-0.0101)Ala+(0.009
0)Pro+(0.0181)Orn;0.685,0.728,0.709,0.716,0.680,0.788,0.698,0.720,(0.
8086)+(0.0365)Ser+(-0.0085)Gly+(-0.0288)Arg+(0.0056)Pro+(-0.0321)Val+
(0.0322)Leu;0.685,0.728,0.731,0.785,0.659,0.740,0.733,0.729,(1.5607)+
(-0.0019)Gly+(-0.0095)Ala+(0.0120)Pro+(-0.0633)Tyr+(-0.0151)Leu+(0.07
33)Phe;0.685,0.743,0.734,0.763,0.667,0.821,0.733,0.746,(0.9033)+(0.03
25)Ser+(-0.0093)Gly+(-0.0066)Ala+(-0.0474)Tyr+(0.0201)Orn+(-0.0024)Le
u;0.685,0.735,0.770,0.801,0.758,0.774,0.708,0.760,(4.9691)+(-0.0551)A
sn+(-0.0081)Arg+(0.0115)Pro+(-0.0135)Val+(-0.1578)Met+(0.0076)Lys;0.6
85,0.730,0.732,0.755,0.751,0.780,0.595,0.720,(3.3520)+(-0.0011)Gly+(0
.0190)Thr+(-0.0164)Arg+(-0.2383)Met+(0.0222)Orn+(-0.0059)Lys;0.685,0.
739,0.767,0.784,0.720,0.833,0.770,0.777,(0.3738)+(0.0381)Ser+(-0.0070
)Gly+(0.0005)Gln+(-0.0070)Thr+(-0.0076)Ala+(-0.0211)Arg;0.685,0.735,0
.705,0.742,0.666,0.676,0.705,0.697,(1.9826)+(-0.1064)Asn+(0.0017)Gly+
(0.0019)Pro+(-0.0678)Tyr+(0.0228)Ile+(0.0539)Phe;0.685,0.738,0.797,0.
812,0.783,0.821,0.766,0.795,(5.5100)+(-0.0581)Asn+(-0.0060)Ala+(-0.06
61)Cit+(-0.0161)Tyr+(-0.0024)Lys+(0.0062)Leu;0.685,0.748,0.735,0.760,
0.711,0.847,0.641,0.740,(0.5607)+(0.0260)Ser+(-0.0013)Gln+(-0.0084)Al
a+(-0.0266)Arg+(0.0219)Orn+(-0.0047)Leu;0.685,0.744,0.714,0.720,0.655
,0.828,0.741,0.736,(0.0383)+(0.0331)Ser+(-0.0111)Thr+(-0.0103)Ala+(0.
0120)Pro+(-0.0149)Lys+(0.0033)Leu;0.685,0.738,0.769,0.800,0.759,0.783
,0.693,0.759,(1.7761)+(0.0052)Gln+(-0.0136)Arg+(0.0078)Pro+(-0.2402)M
et+(-0.0028)Lys+(-0.0004)Leu;0.685,0.742,0.753,0.787,0.752,0.795,0.63
3,0.742,(3.4421)+(0.0237)Thr+(-0.0045)Ala+(-0.0153)Arg+(-0.0091)Tyr+(
-0.2266)Met+(0.0080)Leu;0.685,0.739,0.761,0.797,0.746,0.777,0.686,0.7
52,(1.9957)+(0.0051)Gln+(-0.0135)Arg+(0.0085)Pro+(-0.0142)Tyr+(-0.219
3)Met+(-0.0025)Lys;0.685,0.738,0.695,0.727,0.641,0.749,0.684,0.700,(1
.7527)+(0.0363)Ser+(-0.0107)Gly+(-0.0011)Gln+(0.0096)Pro+(-0.0559)Tyr

+(-0.0115)Val;0.685,0.737,0.737,0.778,0.746,0.779,0.579,0.720,(1.9749)+(0.0038)Gln+(0.0178)Thr+(-0.0221)Arg+(-0.0157)Tyr+(-0.2474)Met+(0.0167)Orn;0.685,0.736,0.767,0.769,0.756,0.835,0.735,0.774,(4.1082)+(0.0073)Thr+(-0.0115)Ala+(-0.0837)Cit+(-0.0001)Arg+(0.0122)Pro+(-0.0105)Lys;0.685,0.736,0.742,0.777,0.
737,0.770,0.636,0.730,(1.7701)+(0.0038)Gln+(0.0184)Thr+(-0.0124)Tyr+(-0.2617)Met+(-0.0090)Lys+(0.0083)Leu;0.685,0.731,0.729,0.757,0.730,0.769,0.620,0.719,(3.3459)+(-0.0021)Gly+(0.0167)Thr+(-0.0186)Tyr+(-0.2138)Met+(0.0232)Orn+(-0.0082)Lys;0.685,0.734,0.708,0.743,0.701,0.789,0.574,0.702,(1.3566)+(0.0256)Ser+(0.0005)Gln+(-0.0059)Thr+(-0.0712)Cit+(-0.0356)Tyr+(-0.0053)Val;0.685,0.733,0.704,0.751,0.681,0.665,0.655,0.688,(2.3050)+(-0.1284)Asn+(0.0000)Gly+(0.0128)Thr+(-0.0741)Tyr+(0.0148)Orn+(0.0661)Phe;0.685,0.730,0.710,0.762,0.688,0.698,0.626,0.694,(1.6573)+(-0.0005)Gly+(0.0085)Thr+(-0.0675)Cit+(-0.0715)Tyr+(-0.0132)Val+(0.0868)Phe;0.685,0.740,0.799,0.822,0.773,0.836,0.763,0.799,(2.6167)+(-0.1136)Asn+(0.0046)Gln+(0.0071)Thr+(-0.0074)Ala+(-0.0184)Arg+(0.0208)Orn;0.685,0.734,0.742,0.788,0.691,0.759,0.711,0.738,(1.9702)+(-0.0024)Gly+(0.0136)Thr+(-0.0073)Ala+(-0.0616)Tyr+(-0.0157)Lys+(0.0752)Phe;0.685,0.732,0.780,0.799,0.753,0.813,0.761,0.782,(0.8020)+(0.0031)Gln+(-0.0102)Ala+(-0.0810)Cit+(-0.0098)Arg+(-0.0075)Leu+(0.0552)Phe;0.685,0.734,0.763,0.792,0.750,0.782,0.699,0.756,(5.9970)+(-0.0819)Asn+(-0.0535)Cit+(0.0014)Arg+(0.0098)Pro+(-0.0289)Tyr+(-0.0105)Val;0.685,0.732,0.764,0.822,0.715,0.767,0.715,0.755,(1.8290)+(-0.0006)Gly+(-0.0064)Ala+(-0.0168)Arg+(-0.0533)Tyr+(-0.0116)Leu+(0.0820)Phe;0.685,0.736,0.674,0.670,0.596,0.828,0.735,0.707,(1.1236)+(0.0271)Ser+(-0.0039)Gln+(-0.0106)Ala+(0.0118)Pro+(-0.0307)Val+(0.0414)Leu;0.685,0.744,0.754,0.806,0.715,0.862,0.621,0.751,(1.4335)+(0.0252)Ser+(0.0006)Gln+(-0.0050)Ala+(-0.0216)Arg+(-0.0242)Tyr+(-0.0057)Val;0.685,0.730,0.718,0.7

12,0.729,0.794,0.655,0.722,(1.2707)+(0.0405)Ser+(-0.0063)Gly+(-0.0047)Thr+(-0.0646)Cit+(-0.0068)Arg+(-0.0165)Lys;0.685,0.736,0.704,0.727,0.670,0.734,0.692,0.706,(3.7750)+(-0.0869)Asn+(0.0001)Gly+(0.0143)Thr+(-0.0528)Tyr+(-0.0144)Lys+(0.0428)Ile;0.685,0.727,0.756,0.769,0.727,0.807,0.744,0.762,(0.5169)+(0.0024)Gly+(0.0019)Gln+(-0.0006)Thr+(-0.0114)Ala+(-0.0936)Cit+(0.0491)Phe;0.685,0.732,0.720,0.725,0.653,0.827,0.768,0.743,(1.2038)+(0.0334)Ser+(-0.0073)Gly+(-0.0021)Gln+(-0.0102)Ala+(0.0129)Pro+(-0.0111)Val;0.685,0.736,0.678,0.666,0.611,0.783,0.776,0.709,(-0.9561)+(0.0354)Ser+(-0.0060)Gly+(-0.0036)Gln+(-0.0136)Ala+(0.0096)Pro+(0.0309)Phe;0.685,0.735,0.804,0.835,0.795,0.803,0.742,0.794,(2.1810)+(-0.0620)Asn+(0.0070)Gln+(-0.0108)Arg+(-0.1719)Met+(-0.0014)Lys+(0.0008)Leu;0.685,0.737,0.732,0.789,0.668,0.751,0.701,0.727,(0.6833)+(0.0002)Thr+(-0.0074)Ala+(-0.0617)Tyr+(0.0221)Orn+(-0.0153)Leu+(0.0750)Phe;0.685,0.734,0.804,0.835,0.795,0.801,0.741,0.793,(2.1561)+(-0.0631)Asn+(-0.0000)Gly+(0.0070)Gln+(-0.0114)Arg+(-0.1735)Met+(0.0000)Leu;0.685,0.732,0.670,0.656,0.680,0.791,0.599,0.682,(0.0443)+(0.0173)Ser+(-0.0999)Cit+(0.0008)Pro+(-0.0297)Val+(0.0417)Orn+(0.0283)Leu;0.685,0.730,0.751,0.767,0.730,0.802,0.715,0.753,(1.1233)+(0.0027)Gly+(0.0014)Thr+(-0.0107)Ala+(-0.0896)Cit+(-0.0060)Leu+(0.0575)Phe;0.685,0.741,0.738,0.769,0.714,0.751,0.693,0.732,(2.5381)+(-0.0616)Cit+(-0.0560)Tyr+(-0.0200)Val+(-0.0103)Lys+(0.0217)Leu+(0.0818)Phe;0.685,0.740,0.708,0.706,0.699,0.761,0.696,0.716,(3.4517)+(-0.0782)Cit+(0.0055)Arg+(-0.0004)Pro+(-0.0467)Tyr+(-0.0185)Lys+(0.0529)Ile;0.685,0.737,0.750,0.762,0.766,0.764,0.676,0.742,(4.3371)+(-0.0620)Cit+(0.0090)Pro+(-0.0131)Tyr+(-0.1862)Met+(-0.0017)Lys+(0.0019)Leu;0.685,0.742,0.691,0.720,0.694,0.723,0.587,0.681,(2.1918)+(0.0153)Thr+(-0.0795)Cit+(0.0041)Pro+(-0.0754)Tyr+(-0.0198)Lys+(0.0796)Phe;0.685,0.737,0.680,0.705,0.685,0.712,0.581,0.671,(0.7991)+(0.0010)Gln+(-0.0009)Thr+(-0.1077)Cit+(-

0.0790)Tyr+(0.0411)Orn+(0.0526)Phe;0.685,0.734,0.790,0.836,0.741,0.821,0.745,0.786,(3.2646)+(-0.1221)Asn+(0.0049)Gln+(0.0124)Thr+(-0.0054)Ala+(-0.0337)Tyr+(-0.0011)Leu;0.685,0.741,0.666,0.685,0.626,0.782,0.614,0.677,(0.9795)+(0.0274)Ser+(0.0067)Pro+(-0.0372)Tyr+(-0.0273)Val+(-0.0170)Lys+(0.0403)Leu;0.685,0.740,0.751,0.780,0.701,0.833,0.721,0.759,(3.3874)+(-0.0060)Ala+(-0.0193)Arg+(-0.0289)Tyr+(-0.0301)Val+(0.0381)Orn+(0.0399)Leu;0.685,0.740,0.698,0.731,0.704,0.733,0.576,0.686,(2.1240)+(0.0007)Gly+(0.0159)Thr+(-0.0803)Cit+(-0.0712)Tyr+(-0.0196)Lys+(0.0820)Phe;0.685,0.739,0.672,0.699,0.649,0.686,0.638,0.668,(0.2593)+(0.0006)Gly+(0.0019)Gln+(-0.0873)Cit+(-0.0791)Tyr+(0.0309)Ile+(0.0445)Phe;0.685,0.738,0.762,0.795,0.740,0.769,0.717,0.755,(1.9913)+(-0.0012)Gly+(0.0047)Gln+(0.0084)Pro+(-0.0157)Tyr+(-0.2241)Met+(-0.0049)Lys;0.685,0.734,0.720,0.765,0.689,0.716,0.667,0.709,(1.8026)+(0.0006)Gly+(-0.0638)Cit+(-0.0630)Tyr+(-0.0204)Val+(0.0165)Leu+(0.0795)Phe;0.685,0.725,0.769,0.790,0.734,0.804,0.760,0.772,(1.0210)+(0.0019)Gln+(0.0019)Thr+(-0.0096)Ala+(-0.0812)Cit+(-0.0090)Val+(0.0590)Phe;0.685,0.737,0.598,0.547,0.604,0.737,0.623,0.628,(-1.7304)+(0.0389)Ser+(-0.0033)Gln+(-0.0036)Pro+(-0.0329)Lys+(0.0473)Ile+(0.0231)Phe;0.685,0.737,0.780,0.794,0.737,0.822,0.802,0.789,(2.5381)+(-0.1198)Asn+(0.0033)Gln+(0.0025)Thr+(-0.0100)Ala+(0.0083)Pro+(0.0154)Orn;0.685,0.734,0.689,0.711,0.661,0.770,0.630,0.693,(-1.3829)+(0.0310)Ser+(-0.0073)Thr+(-0.0292)Arg+(-0.0292)Val+(0.0244)Leu+(0.0503)Phe;0.685,0.737,0.783,0.795,0.769,0.830,0.751,0.786,(4.0481)+(-0.0761)Asn+(0.0007)Gly+(-0.0067)Ala+(-0.0107)Arg+(0.0316)Orn+(-0.0069)Lys;0.685,0.731,0.720,0.717,0.733,0.792,0.651,0.723,(0.9828)+(0.0379)Ser+(-0.0066)Gly+(0.0014)Gln+(-0.0667)Cit+(-0.0094)Arg+(-0.0185)Lys;0.685,0.739,0.766,0.783,0.723,0.837,0.762,0.776,(0.6229)+(0.0383)Ser+(-0.0070)Gly+(-0.0063)Thr+(-0.0073)Ala+(-0.0208)Arg+(-0.0017)Leu;0.685,0.737,0.756,0.806,0.676,0.774,0.778,

0.758,(1.6870)+(-0.0014)Gly+(-0.0064)Ala+(-0.0520)Tyr+(-0.0239)Val+(0.0260)Leu+(0.0729)Phe;0.685,0.736,0.727,0.780,0.707,0.725,0.631,0.711,(1.9453)+(0.0010)Gly+(-0.0586)Cit+(-0.0088)Arg+(-0.0607)Tyr+(-0.0126)Val+(0.0883)Phe;0.685,0.727,0.751,0.756,0.732,0.824,0.725,0.760,(2.9552)+(0.0025)Gly+(0.0002)Thr+(-0.0125)Ala+(-0.0893)Cit+(0.0126)Pro+(-0.0005)Leu;0.685,0.742,0.761,0.803,0.692,0.793,0.771,0.765,(1.9973)+(-0.0060)Ala+(-0.0459)Tyr+(-0.0234)Val+(-0.0090)Lys+(0.0296)Leu+(0.0739)Phe;0.685,0.738,0.814,0.857,0.781,0.852,0.743,0.808,(3.8009)+(-0.1268)Asn+(0.0058)Gln+(0.0148)Thr+(-0.0039)Ala+(-0.0166)Arg+(-0.0115)Val;0.685,0.733,0.658,0.627,0.686,0.745,0.617,0.669,(-2.2904)+(0.0335)Ser+(-0.0257)Thr+(-0.1100)Cit+(-0.0008)Pro+(0.0352)Orn+(0.0236)Phe;0.685,0.735,0.698,0.730,0.679,0.723,0.637,0.692,(3.5312)+(-0.0958)Asn+(0.0133)Thr+(-0.0194)Arg+(-0.0592)Tyr+(0.0170)Orn+(0.0309)Ile;0.685,0.735,0.799,0.816,0.783,0.828,0.764,0.798,(5.6466)+(-0.0644)Asn+(-0.0055)Ala+(-0.0694)Cit+(0.0069)Arg+(-0.0148)Tyr+(-0.0020)Lys;0.685,0.742,0.755,0.794,0.719,0.863,0.650,0.757,(1.2612)+(0.0285)Ser+(-0.0010)Thr+(-0.0056)Ala+(-0.0181)Arg+(-0.0052)Val+(-0.0081)Lys;0.685,0.735,0.789,0.806,0.747,0.835,0.799,0.797,(3.0496)+(-0.1098)Asn+(0.0042)Gln+(0.0077)Thr+(-0.0092)Ala+(0.0092)Pro+(-0.0086)Lys;0.684,0.737,0.755,0.776,0.737,0.795,0.707,0.754,(4.6760)+(-0.1193)Asn+(0.0003)Gly+(0.0067)Pro+(-0.0184)Val+(0.0348)Orn+(-0.0018)Lys;0.684,0.737,0.768,0.791,0.754,0.813,0.702,0.765,(3.4444)+(-0.0048)Ala+(-0.0128)Arg+(-0.0101)Tyr+(-0.1543)Met+(0.0305)Orn+(0.0015)Leu;0.684,0.741,0.688,0.719,0.668,0.703,0.637,0.682,(0.2981)+(0.0031)Gln+(-0.0769)Cit+(-0.0131)Arg+(-0.0767)Tyr+(0.0304)Ile+(0.0467)Phe;0.684,0.730,0.682,0.678,0.713,0.789,0.550,0.683,(0.6961)+(0.0310)Ser+(0.0004)Gln+(-0.0750)Cit+(-0.0087)Arg+(0.0041)Pro+(-0.0191)Lys;0.684,0.731,0.768,0.797,0.721,0.802,0.766,0.771,(4.7970)+(-0.0721)Asn+(-0.0081)Ala+(0.0128)Pro+(-0.0304)Tyr+(-0.0018

)Lys+(-0.0024)Leu;0.684,0.727,0.689,0.701,0.702,0.737,0.597,0.684,(-1.6462)+(0.0340)Ser+(-0.0137)Thr+(-0.0702)Cit+(-0.0173)Arg+(-0.0165)Leu+(0.0566)Phe;0.684,0.737,0.751,0.779,0.702,0.768,0.770,0.755,(5.6352)+(-0.1168)Asn+(0.0089)Pro+(-0.0264)Tyr+(-0.0378)Val+(0.0021)Lys+(0.0494)Leu;0.684,0.736,0.767,0.827,0.694,0.765,0.761,0.762,(1.0955)+(-0.0024)Gly+(0.0018)Gln+(-0.0060)Ala+(-0.0576)Tyr+(-0.0121)Val+(0.0812)Phe;0.684,0.735,0.792,0.823,0.793,0.815,0.694,0.781,(2.4915)+(0.0004)Gly+(0.0062)Gln+(-0.0662)Cit+(-0.0040)Arg+(-0.0043)Val+(-0.1932)Met;0.684,0.734,0.743,0.795,0.685,0.773,0.705,0.740,(1.0629)+(0.0016)Gln+(0.0101)Thr+(-0.0074)Ala+(-0.0591)Tyr+(-0.0164)Lys+(0.0737)Phe;0.684,0.734,0.802,0.824,0.786,0.831,0.758,0.800,(5.8867)+(-0.0693)Asn+(-0.0046)Ala+(-0.0634)Cit+(0.0052)Arg+(-0.0127)Tyr+(-0.0041)Val;0.684,0.731,0.783,0.809,0.734,0.837,0.775,0.789,(4.9560)+(-0.0964)Asn+(0.0013)Gly+(-0.0072)Ala+(0.0132)Pro+(-0.0123)Val+(0.0018)Lys;0.684,0.729,0.763,0.786,0.729,0.802,0.742,0.765,(0.8015)+(0.0020)Gly+(0.0017)Gln+(-0.0096)Ala+(-0.0835)Cit+(-0.0087)Val+(0.0615)Phe;0.684,0.738,0.676,0.703,0.652,0.687,0.646,0.672,(0.3231)+(0.0021)Gln+(-0.0864)Cit+(0.0002)Pro+(-0.0796)Tyr+(0.0303)Ile+(0.0442)Phe;0.684,0.727,0.725,0.734,0.689,0.795,0.728,0.736,(0.8407)+(0.0385)Ser+(-0.0082)Gly+(-0.0054)Thr+(-0.0244)Arg+(-0.0301)Val+(0.0343)Leu;0.684,0.739,0.742,0.726,0.757,0.740,0.751,0.743,(2.6103)+(-0.1081)Asn+(-0.0756)Cit+(-0.0012)Arg+(-0.0021)Pro+(0.0250)Ile+(0.0265)Phe;0.684,0.737,0.741,0.787,0.745,0.768,0.590,0.723,(1.8478)+(0.0044)Gln+(0.0213)Thr+(-0.0209)Arg+(-0.0129)Tyr+(-0.2655)Met+(0.0038)Leu;0.684,0.735,0.717,0.734,0.721,0.754,0.637,0.711,(-1.2570)+(0.0355)Ser+(-0.0076)Gly+(-0.0369)Arg+(0.0137)Orn+(-0.0247)Leu+(0.0423)Phe;0.684,0.722,0.766,0.773,0.740,0.823,0.761,0.774,(2.4043)+(0.0025)Gln+(-0.0009)Thr+(-0.0125)Ala+(-0.0887)Cit+(0.0119)Pro+(-0.0018)Leu;0.684,0.740,0.664,0.627,0.723,0.764,0.568,0.670,(-0.2097)

+(0.0319)Ser+(-0.0047)Gly+(-0.0019)Gln+(-0.0874)Cit+(-0.0218)Arg+(0.0299)Orn;0.684,0.727,0.705,0.698,0.708,0.789,0.655,0.712,(1.5175)+(0.0370)Ser+(-0.0066)Gly+(-0.0647)Cit+(0.0057)Pro+(-0.0073)Val+(-0.0173)Lys;0.684,0.737,0.771,0.775,0.739,0.825,0.793,0.783,(2.5996)+(-0.0084)Ala+(-0.0690)Cit+(-0.0205)Val+(-0.0114)Lys+(0.0304)Leu+(0.0597)Phe;0.684,0.734,0.804,0.829,0.788,0.831,0.753,0.800,(5.9179)+(-0.0686)Asn+(-0.0044)Ala+(-0.0589)Cit+(-0.0129)Tyr+(-0.0048)Val+(0.0019)Lys;0.684,0.730,0.695,0.677,0.715,0.779,0.641,0.703,(0.9583)+(0.0384)Ser+(-0.0060)Gly+(-0.0738)Cit+(0.0034)Pro+(-0.0216)Lys+(0.0012)Leu;0.684,0.736,0.750,0.788,0.709,0.751,0.731,0.745,(2.0797)+(-0.1024)Asn+(0.0057)Gln+(-0.0174)Arg+(0.0011)Pro+(-0.0516)Tyr+(0.0327)Ile;0.684,0.734,0.761,0.807,0.709,0.765,0.747,0.757,(1.9074)+(-0.0011)Gly+(-0.0064)Ala+(-0.0528)Tyr+(-0.0098)Lys+(-0.0070)Leu+(0.0787)Phe;0.684,0.742,0.727,0.744,0.664,0.842,0.730,0.745,(0.
6723)+(0.0306)Ser+(-0.0099)Thr+(-0.0093)Ala+(0.0135)Pro+(-0.0066)Val+(-0.0109)Lys;0.684,0.732,0.782,0.807,0.747,0.815,0.765,0.783,(1.0211)+(0.0030)Gln+(-0.0090)Ala+(-0.0720)Cit+(-0.0107)Arg+(-0.0093)Val+(0.0617)Phe;0.684,0.735,0.698,0.748,0.674,0.710,0.605,0.684,(1.1845)+(0.0051)Thr+(-0.0721)Tyr+(0.0257)Orn+(-0.0176)Lys+(-0.0144)Leu+(0.0772)Phe;0.684,0.734,0.683,0.674,0.684,0.742,0.663,0.691,(-1.0268)+(0.0459)Ser+(-0.0077)Gly+(-0.0008)Gln+(-0.0217)Arg+(-0.0233)Lys+(0.0426)Phe;0.684,0.739,0.725,0.753,0.699,0.786,0.661,0.725,(1.7696)+(0.0416)Ser+(-0.0098)Gly+(0.0027)Thr+(-0.0183)Arg+(-0.0419)Tyr+(-0.0115)Lys;0.684,0.733,0.710,0.753,0.690,0.731,0.626,0.700,(1.0409)+(0.0022)Gln+(-0.0190)Arg+(-0.0664)Tyr+(0.0256)Orn+(-0.0166)Lys+(0.0601)Phe;0.684,0.737,0.672,0.693,0.681,0.705,0.573,0.663,(1.1132)+(-0.0002)Thr+(-0.1061)Cit+(0.0018)Pro+(-0.0802)Tyr+(0.0411)Orn+(0.0515)Phe;0.684,0.736,0.806,0.832,0.774,0.830,0.787,0.806,(1.8633)+(-0.0007)Gly+(0.0050)Gln+(-0.00

46)Ala+(-0.1975)Met+(-0.0059)Lys+(0.0090)Leu;0.684,0.734,0.749,0.797,0.718,0.758,0.680,0.738,(3.1491)+(-0.1177)Asn+(0.0042)Gln+(0.0058)Pro+(-0.0466)Tyr+(0.0246)Orn+(-0.0127)Leu;0.684,0.731,0.685,0.676,0.686,0.801,0.628,0.697,(1.1515)+(0.0312)Ser+(-0.0022)Thr+(-0.0661)Cit+(-0.0240)Val+(-0.0194)Lys+(0.0403)Leu;0.684,0.748,0.735,0.770,0.697,0.842,0.644,0.739,(1.0516)+(0.0298)Ser+(-0.0060)Ala+(-0.0159)Arg+(-0.0245)Tyr+(-0.0108)Lys+(0.0076)Leu;0.684,0.740,0.757,0.797,0.721,0.866,0.650,0.758,(1.1913)+(0.0277)Ser+(0.0004)Gln+(-0.0057)Ala+(-0.0188)Arg+(-0.0053)Val+(-0.0084)Lys;0.684,0.734,0.736,0.797,0.720,0.724,0.620,0.715,(0.5243)+(0.0041)Gln+(-0.0693)Cit+(-0.0134)Arg+(-0.0693)Tyr+(-0.0166)Leu+(0.0848)Phe;0.684,0.741,0.791,0.798,0.794,0.816,0.749,0.789,(4.6130)+(-0.0056)Ala+(-0.0672)Cit+(0.0015)Tyr+(-0.1397)Met+(-0.0026)Lys+(0.0113)Leu;0.684,0.731,0.717,0.736,0.689,0.744,0.710,0.720,(3.5651)+(-0.0676)Asn+(0.0016)Gly+(-0.0074)Arg+(-0.0436)Tyr+(-0.0103)Lys+(0.0436)Ile;0.684,0.730,0.664,0.676,0.650,0.761,0.592,0.670,(-0.6820)+(0.0317)Ser+(-0.0027)Gln+(-0.0298)Arg+(-0.0315)Val+(0.0277)Leu+(0.0526)Phe;0.684,0.736,0.733,0.784,0.695,0.764,0.657,0.725,(1.8492)+(0.0167)Thr+(-0.0072)Ala+(-0.0189)Arg+(-0.0599)Tyr+(-0.0122)Lys+(0.0781)Phe;0.684,0.734,0.773,0.786,0.736,0.827,0.772,0.780,(4.1267)+(-0.0934)Asn+(0.0008)Gly+(0.0091)Thr+(-0.0094)Ala+(0.0102)Pro+(-0.0072)Lys;0.684,0.730,0.740,0.777,0.675,0.806,0.731,0.747,(3.5252)+(-0.0034)Gly+(-0.0083)Ala+(0.0126)Pro+(-0.0433)Tyr+(-0.0118)Val+(0.0298)Orn;0.684,0.730,0.714,0.756,0.636,0.739,0.746,0.719,(1.1817)+(-0.0024)Gly+(-0.0108)Ala+(0.0099)Pro+(-0.0653)Tyr+(0.0146)Orn+(0.0529)Phe;0.684,0.743,0.816,0.853,0.775,0.858,0.773,0.815,(3.7208)+(-0.1323)Asn+(0.0051)Gln+(0.0124)Thr+(-0.0043)Ala+(-0.0107)Val+(-0.0027)Lys;0.684,0.740,0.758,0.781,0.760,0.779,0.678,0.749,(4.6489)+(-0.0558)Cit+(0.0115)Pro+(-0.0098)Tyr+(-0.0085)Val+(-0.1865)Met+(0.0034)Lys;0.684,0.739,0.696,0.707,0.67

5,0.822,0.624,0.707,(0.7211)+(0.0306)Ser+(-0.0001)Thr+(-0.0185)Arg+(-0.0298)Val+(-0.0155)Lys+(0.0433)Leu;0.684,0.732,0.728,0.744,0.738,0.768,0.634,0.721,(2.8521)+(-0.0012)Gly+(0.0163)Thr+(-0.2512)Met+(0.0192)Orn+(-0.0094)Lys+(0.0044)Leu;0.684,0.723,0.765,0.779,0.735,0.834,0.738,0.771,(2.7391)+(0.0012)Gly+(0.0020)Gln+(-0.0115)Ala+(-0.0838)Cit+(0.0129)Pro+(-0.0062)Val;0.684,0.736,0.775,0.804,0.741,0.817,0.737,0.775,(1.7843)+(0.0032)Gln+(-0.0050)Ala+(-0.0084)Tyr+(-0.1987)Met+(0.0215)Orn+(0.0030)Leu;0.684,0.739,0.650,0.648,0.654,0.759,0.571,0.658,(-0.6834)+(0.0320)Ser+(-0.0039)Gln+(-0.0155)Val+(0.0238)Orn+(-0.0215)Lys+(0.0605)Phe;0.684,0.722,0.770,0.782,0.737,0.835,0.756,0.778,(2.8185)+(0.0023)Gln+(-0.0000)Thr+(-0.0114)Ala+(-0.0818)Cit+(0.0127)Pro+(-0.0064)Val;0.684,0.736,0.734,0.773,0.719,0.748,0.652,0.723,(0.8233)+(0.0006)Gly+(0.0046)Gln+(-0.0830)Cit+(-0.0644)Tyr+(-0.0171)Lys+(0.0771)Phe;0.684,0.736,0.690,0.701,0.600,0.806,0.764,0.717,(-1.3342)+(0.0220)Ser+(-0.0117)Ala+(0.0095)Pro+(-0.0289)Val+(0.0298)Leu+(0.0408)Phe;0.684,0.735,0.783,0.811,0.788,0.803,0.684,0.772,(2.3318)+(0.0007)Gly+(0.0062)Gln+(-0.0732)Cit+(-0.0036)Tyr+(-0.1936)Met+(-0.0036)Lys;0.684,0.733,0.737,0.792,0.688,0.753,0.683,0.729,(1.6051)+(-0.0018)Gly+(0.0137)Thr+(-0.0081)Ala+(-0.0236)Arg+(-0.0637)Tyr+(0.0715)Phe;0.684,0.728,0.751,0.757,0.736,0.822,0.716,0.758,(3.0399)+(0.0025)Gly+(0.0017)Thr+(-0.0124)Ala+(-0.0855)Cit+(-0.0050)Arg+(0.0125)Pro;0.684,0.735,0.771,0.789,0.743,0.789,0.772,0.773,(6.0722)+(-0.0995)Asn+(-0.0441)Cit+(-0.0173)Tyr+(-0.0324)Val+(0.0008)Lys+(0.0486)Leu;0.684,0.740,0.704,0.751,0.658,0.734,0.655,0.699,(1.6547)+(0.0133)Thr+(-0.0660)Tyr+(-0.0260)Val+(-0.0163)Lys+(0.0283)Leu+(0.0763)Phe;0.684,0.734,0.735,0.771,0.679,0.813,0.700,0.741,(3.4313)+(-0.0082)Ala+(0.0122)Pro+(-0.0363)Tyr+(-0.0096)Val+(0.0310)Orn+(-0.0084)Lys;0.684,0.733,0.745,0.782,0.734,0.766,0.656,0.734,(1.8168)+(-0.0027)Gly+(0.0032)Gln+(0.0145)Thr+(-0.0183)Ty

r+(-0.2568)Met+(0.0147)Orn;0.684,0.730,0.681,0.670,0.682,0.801,0.620,0.693,(1.2862)+(0.0309)Ser+(-0.0004)Gln+(-0.0657)Cit+(-0.0246)Val+(-0.0200)Lys+(0.0412)Leu;0.684,0.725,0.758,0.765,0.734,0.825,0.740,0.766,(2.2940)+(0.0017)Gly+(0.0020)Gln+(-0.0127)Ala+(-0.0918)Cit+(0.0121)Pro+(-0.0012)Leu;0.684,0.729,0.726,0.748,0.640,0.787,0.801,0.744,(1.4942)+(-0.0019)Gly+(0.0007)Gln+(-0.0105)Ala+(-0.0500)Tyr+(0.0095)Orn+(0.0474)Ile;0.684,0.740,0.787,0.807,0.792,0.826,0.698,0.781,(4.3515)+(0.0029)Gly+(-0.0048)Ala+(-0.0696)Cit+(0.0054)Tyr+(-0.1420)Met+(0.0004)Lys;0.684,0.730,0.733,0.760,0.752,0.761,0.601,0.718,(3.3286)+(-0.0005)Gly+(0.0237)Thr+(-0.0145)Arg+(-0.2583)Met+(-0.0049)Lys+(0.0061)Leu;0.684,0.737,0.599,0.548,0.611,0.745,0.608,0.628,(-1.0715)+(0.0366)Ser+(-0.0031)Gln+(-0.0038)Pro+(0.0100)Orn+(-0.0318)Lys+(0.0500)Ile;0.684,0.737,0.653,0.677,0.641,0.670,0.602,0.648,(0.7769)+(0.0011)Gly+(0.0034)Thr+(-0.0852)Cit+(-0.0793)Tyr+(0.0315)Ile+(0.0451)Phe;0.684,0.736,0.778,0.828,0.755,0.823,0.663,0.767,(5.7146)+(-0.0966)Asn+(0.0198)Thr+(-0.0033)Ala+(-0.0124)Arg+(-0.0242)Tyr+(-0.0090)Val;0.684,0.732,0.725,0.758,0.738,0.764,0.582,0.710,(3.4484)+(-0.0017)Gly+(0.0199)Thr+(-0.0189)Arg+(-0.0198)Tyr+(-0.2251)Met+(0.0216)Orn;0.684,0.728,0.700,0.686,0.712,0.778,0.655,0.708,(0.8619)+(0.0413)Ser+(-0.0058)Gly+(-0.0082)Thr+(-0.0709)Cit+(0.0046)Pro+(-0.0185)Lys;0.684,0.735,0.718,0.700,0.777,0.813,0.579,0.717,(2.9909)+(0.0010)Gly+(-0.1119)Cit+(-0.0020)Arg+(0.0552)Orn+(-0.0202)Lys+(-0.0051)Leu;0.684,0.727,0.747,0.764,0.710,0.778,0.755,0.752,(5.1749)+(-0.1249)Asn+(0.0022)Gly+(-0.0057)Arg+(0.0075)Pro+(-0.0405)Val+(0.0523)Leu;0.684,0.741,0.694,0.711,0.656,0.754,0.686,0.702,(1.0239)+(0.0430)Ser+(-0.0101)Gly+(-0.0039)Thr+(0.0075)Pro+(-0.0501)Tyr+(-0.0151)Lys;0.684,0.738,0.750,0.763,0.765,0.766,0.675,0.742,(4.3288)+(-0.0639)Cit+(0.0026)Arg+(0.0092)Pro+(-0.0131)Tyr+(-0.1858)Met+(-0.0016)Lys;0.684,0.736,0.739,0.764,0.741,0.782,0.637,0.731,

(1.6104)+(0.0033)Gln+(0.0144)Thr+(-0.2672)Met+(0.0151)Orn+(-0.0104)Lys+(0.0055)Leu;0.684,0.730,0.703,0.747,0.624,0.743,0.720,0.709,(0.8559)+(-0.0003)Gln+(-0.0110)Ala+(0.0099)Pro+(-0.0637)Tyr+(0.0134)Orn+(0.0539)Phe;0.684,0.741,0.674,0.665,0.646,0.810,0.657,0.695,(-0.0048)+(0.0292)Ser+(-0.0083)Thr+(-0.0319)Val+(0.0275)Orn+(-0.0214)Lys+(0.0450)Leu;0.683,0.738,0.684,0.712,0.613,0.818,0.662,0.701,(1.0318)+(0.0255)Ser+(-0.0023)Gln+(-0.0099)Ala+(0.0133)Pro+(-0.0413)Tyr+(-0.0015)Leu;0.683,0.735,0.694,0.731,0.678,0.717,0.616,0.685,(1.7178)+(-0.0171)Arg+(0.0034)Pro+(-0.0685)Tyr+(0.0263)Orn+(-0.0161)Lys+(0.0594)Phe;0.683,0.750,0.728,0.766,0.685,0.851,0.627,0.733,(1.3549)+(0.0225)Ser+(-0.0056)Ala+(-0.0266)Tyr+(-0.0057)Val+(0.0289)Orn+(-0.0133)Lys;0.683,0.732,0.715,0.731,0.680,0.740,0.723,0.719,(3.5103)+(-0.0725)Asn+(0.0013)Gly+(0.0011)Pro+(-0.0456)Tyr+(-0.0117)Lys+(0.0423)Ile;0.683,0.730,0.683,0.678,0.708,0.783,0.574,0.686,(0.6717)+(0.0342)Ser+(-0.0076)Thr+(-0.0740)Cit+(-0.0059)Arg+(0.0051)Pro+(-0.0170)Lys;0.683,0.733,0.753,0.775,0.757,0.759,0.680,0.743,(3.7893)+(-0.0391)Asn+(0.0018)Gly+(-0.0070)Arg+(0.0082)Pro+(-0.1849)Met+(-0.0022)Leu;0.683,0.740,0.706,0.770,0.669,0.728,0.596,0.691,(1.5930)+(0.0150)Thr+(-0.0269)Arg+(-0.0693)Tyr+(-0.0266)Val+(0.0217)Leu+(0.0818)Phe;0.683,0.737,0.763,0.799,0.747,0.770,0.697,0.753,(1.9657)+(-0.0010)Gly+(0.0052)Gln+(-0.0145)Arg+(0.0084)Pro+(-0.0159)Tyr+(-0.2234)Met;0.683,0.735,0.689,0.683,0.682,0.742,0.681,0.697,(-1.3357)+(0.0474)Ser+(-0.0077)Gly+(-0.0073)Thr+(-0.0197)Arg+(-0.0215)Lys+(0.0432)Phe;0.683,0.741,0.643,0.663,0.606,0.772,0.577,0.654,(1.5149)+(0.0234)Ser+(-0.0042)Gln+(-0.0454)Tyr+(-0.0320)Val+(0.0267)Orn+(0.0407)Leu;0.683,0.735,0.794,0.825,0.795,0.814,0.700,0.783,(2.5396)+(0.0063)Gln+(-0.0659)Cit+(-0.0037)Arg+(-0.0041)Val+(-0.1910)Met+(-0.0008)Lys;0.683,0.735,0.715,0.763,0.691,0.708,0.638,0.700,(2.1751)+(-0.0558)Cit+(-0.0107)Arg+(0.0079)Pro+(-0.0676)Tyr+(-0.0144)Val+(0

.0851)Phe;0.683,0.735,0.726,0.748,0.749,0.775,0.582,0.714,(3.1251)+(0.0189)Thr+(-0.0162)Arg+(-0.2446)Met+(0.0207)Orn+(-0.0067)Lys+(0.0031)Leu;0.683,0.729,0.766,0.783,0.749,0.802,0.729,0.766,(1.5846)+(-0.0086)Ala+(-0.0190)Arg+(0.0283)Orn+(-0.0119)Lys+(-0.0103)Leu+(0.0511)Phe;0.683,0.736,0.682,0.700,0.648,0.718,0.682,0.687,(1.0069)+(0.0011)Gln+(-0.0698)Tyr+(0.0165)Orn+(-0.0243)Lys+(0.0343)Ile+(0.0446)Phe;0.683,0.732,0.802,0.839,0.788,0.795,0.737,0.790,(2.4307)+(-0.0654)Asn+(-0.0004)Gly+(0.0071)Gln+(-0.0112)Arg+(-0.0127)Tyr+(-0.1482)Met;0.683,0.734,0.813,0.862,0.771,0.818,0.767,0.804,(3.7044)+(-0.1164)Asn+(-0.0012)Gly+(0.0064)Gln+(-0.0259)Tyr+(-0.0108)Val+(0.0003)Lys;0.683,0.733,0.731,0.757,0.751,0.768,0.593,0.717,(3.0472)+(-0.0009)Gly+(0.0187)Thr+(-0.0184)Arg+(-0.2559)Met+(0.0192)Orn+(-0.0003)Leu;0.683,0.728,0.707,0.726,0.708,0.737,0.631,0.700,(-1.0411)+(0.0380)Ser+(-0.0071)Gly+(-0.0011)Gln+(-0.0338)Arg+(-0.0222)Leu+(0.0464)Phe;0.683,0.734,0.778,0.803,0.785,0.784,0.695,0.767,(2.0542)+(0.0063)Gln+(-0.0718)Cit+(-0.0034)Arg+(-0.0060)Tyr+(-0.2125)Met+(0.0050)Leu;0.683,0.733,0.801,0.839,0.787,0.799,0.732,0.789,(2.4233)+(-0.0655)Asn+(0.0070)Gln+(-0.0109)Arg+(-0.0120)Tyr+(-0.1473)Met+(-0.0007)Lys;0.683,0.737,0.720,0.759,0.700,0.722,0.659,0.710,(2.3935)+(-0.0645)Cit+(0.0074)Pro+(-0.0647)Tyr+(-0.0117)Val+(-0.0091)Lys+(0.0869)Phe;0.683,0.741,0.750,0.769,0.691,0.840,0.758,0.765,(3.2845)+(-0.0061)Ala+(-0.0270)Tyr+(-0.0298)Val+(0.0369)Orn+(-0.0123)Lys+(0.0454)Leu;0.683,0.734,0.771,0.790,0.739,0.818,0.752,0.775,(3.9082)+(-0.0944)Asn+(0.0

013)Gly+(0.0096)Thr+(-0.0096)Ala+(-0.0131)Arg+(0.0101)Pro;0.683,0.733,0.746,0.764,0.695,0.799,0.762,0.755,(1.3855)+(-0.0100)Ala+(0.0090)Pro+(-0.0137)Val+(0.0254)Orn+(-0.0137)Lys+(0.0506)Phe;0.683,0.731,0.798,0.817,0.753,0.839,0.809,0.805,(3.0438)+(-0.1009)Asn+(0.0046)Gln+(-0.0087)Ala+(0.0101)Pro+(-0.0060)Lys+(-0.0037)Leu;0.683,0.730,0.745,0.76

0,0.702,0.775,0.771,0.752,(5.0664)+(-0.1322)Asn+(0.0021)Gly+(0.0074)Pro+(-0.0413)Val+(0.0001)Lys+(0.0533)Leu;0.683,0.739,0.764,0.781,0.724,0.834,0.750,0.772,(0.6857)+(0.0355)Ser+(-0.0072)Gly+(0.0002)Gln+(-0.0077)Ala+(-0.0239)Arg+(-0.0030)Leu;0.683,0.736,0.701,0.687,0.712,0.799,0.648,0.711,(0.5789)+(0.0247)Ser+(-0.0063)Gly+(-0.0959)Cit+(0.0020)Pro+(-0.0157)Val+(0.0405)Orn;0.683,0.734,0.725,0.782,0.707,0.712,0.619,0.705,(1.7651)+(-0.0024)Gly+(-0.0244)Arg+(-0.0712)Tyr+(0.0308)Orn+(-0.0231)Leu+(0.0779)Phe;0.683,0.733,0.753,0.779,0.707,0.772,0.763,0.755,(5.7503)+(-0.1085)Asn+(-0.0038)Arg+(0.0089)Pro+(-0.0246)Tyr+(-0.0369)Val+(0.0489)Leu;0.683,0.732,0.732,0.729,0.645,0.803,0.868,0.761,(0.2117)+(0.0006)Gly+(-0.0098)Thr+(-0.0144)Ala+(0.0063)Pro+(0.0397)Ile+(0.0094)Phe;0.683,0.731,0.757,0.762,0.735,0.779,0.776,0.763,(5.7478)+(-0.1173)Asn+(-0.0461)Cit+(0.0023)Arg+(0.0072)Pro+(-0.0365)Val+(0.0477)Leu;0.683,0.731,0.768,0.776,0.751,0.836,0.731,0.773,(4.2380)+(0.0069)Thr+(-0.0108)Ala+(-0.0791)Cit+(0.0128)Pro+(-0.0042)Val+(-0.0087)Lys;0.683,0.748,0.710,0.742,0.670,0.833,0.621,0.716,(1.2648)+(0.0259)Ser+(-0.0012)Gln+(-0.0062)Ala+(-0.0286)Tyr+(0.0267)Orn+(-0.0150)Lys;0.683,0.740,0.730,0.713,0.756,0.732,0.716,0.729,(2.6010)+(-0.1242)Asn+(0.0093)Thr+(-0.0765)Cit+(-0.0051)Arg+(0.0206)Ile+(0.0263)Phe;0.683,0.736,0.771,0.797,0.765,0.812,0.682,0.764,(4.9620)+(-0.1028)Asn+(0.0004)Gly+(-0.0143)Arg+(-0.0165)Val+(0.0403)Orn+(0.0006)Lys;0.683,0.733,0.750,0.779,0.746,0.773,0.667,0.741,(1.4184)+(-0.0019)Gly+(0.0032)Gln+(0.0135)Thr+(-0.2864)Met+(0.0121)Orn+(0.0003)Leu;0.683,0.730,0.764,0.781,0.739,0.812,0.739,0.768,(0.5073)+(0.0023)Gly+(0.0025)Gln+(-0.0111)Ala+(-0.0868)Cit+(-0.0089)Arg+(0.0504)Phe;0.683,0.745,0.722,0.733,0.682,0.833,0.698,0.737,(0.4658)+(0.0307)Ser+(-0.0013)Gln+(-0.0099)Thr+(-0.0072)Ala+(0.0269)Orn+(-0.0153)Lys;0.683,0.738,0.708,0.716,0.619,0.828,0.787,0.738,(0.0385)+(0.0285)Ser+(-0.0138)Thr+(-0.0104)Ala+(0.0125)

Pro+(-0.0268)Val+(0.0353)Leu;0.683,0.737,0.778,0.798,0.783,0.811,0.689,0.770,(2.9365)+(-0.1300)Asn+(0.0020)Gly+(0.0068)Gln+(0.0106)Thr+(-0.0846)Cit+(-0.0108)Lys;0.683,0.737,0.646,0.659,0.613,0.706,0.637,0.654,(0.6226)+(0.0384)Ser+(-0.0105)Gly+(-0.0025)Gln+(0.0056)Pro+(-0.0722)Tyr+(0.0149)Orn;0.683,0.740,0.785,0.803,0.788,0.826,0.699,0.779,(4.2611)+(0.0029)Gly+(-0.0049)Ala+(-0.0732)Cit+(0.0044)Arg+(0.0055)Tyr+(-0.1460)Met;0.683,0.735,0.769,0.802,0.758,0.779,0.697,0.759,(1.7369)+(-0.0005)Gly+(0.0052)Gln+(-0.0148)Arg+(0.0079)Pro+(-0.2448)Met+(-0.0020)Leu;0.683,0.734,0.748,0.769,0.723,0.815,0.696,0.751,(1.3250)+(0.0393)Ser+(-0.0090)Gly+(0.0009)Gln+(-0.0215)Arg+(-0.0094)Val+(-0.0117)Lys;0.683,0.732,0.801,0.829,0.761,0.830,0.790,0.802,(2.9769)+(-0.0987)Asn+(0.0051)Gln+(-0.0085)Ala+(-0.0135)Arg+(0.0102)Pro+(-0.0067)Leu;0.683,0.744,0.752,0.785,0.714,0.856,0.670,0.756,(0.7185)+(0.0299)Ser+(0.0003)Gln+(-0.0026)Thr+(-0.0065)Ala+(-0.0171)Arg+(-0.0106)Lys;0.683,0.743,0.714,0.732,0.629,0.796,0.785,0.735,(-2.1230)+(0.0329)Ser+(-0.0204)Thr+(-0.0119)Ala+(0.0122)Pro+(-0.0123)Leu+(0.0475)Phe;0.683,0.738,0.806,0.836,0.781,0.828,0.760,0.802,(1.8986)+(0.0054)Gln+(-0.0044)Ala+(-0.0110)Arg+(-0.1909)Met+(-0.0036)Lys+(0.0079)Leu;0.683,0.737,0.751,0.774,0.737,0.794,0.691,0.749,(4.7695)+(-0.1288)Asn+(0.0075)Thr+(0.0063)Pro+(-0.0187)Val+(0.0325)Orn+(-0.0031)Lys;0.683,0.729,0.722,0.718,0.727,0.792,0.671,0.727,(0.7977)+(0.0391)Ser+(-0.0063)Gly+(0.0015)Gln+(-0.0069)Thr+(-0.0722)Cit+(-0.0181)Lys;0.683,0.740,0.786,0.794,0.786,0.808,0.752,0.785,(4.2973)+(-0.0058)Ala+(-0.0730)Cit+(0.0060)Arg+(0.0009)Tyr+(-0.1538)Met+(0.0107)Leu;0.683,0.736,0.697,0.737,0.664,0.804,0.585,0.697,(1.1820)+(0.0258)Ser+(0.0004)Thr+(-0.0234)Arg+(-0.0352)Tyr+(-0.0270)Val+(0.0362)Leu;0.683,0.736,0.724,0.795,0.674,0.718,0.645,0.708,(1.1209)+(0.0023)Gln+(-0.0235)Arg+(0.0076)Pro+(-0.0678)Tyr+(-0.0166)Val+(0.0796)Phe;0.683,0.728,0.747,0.759,0.772,0.778,0.641,0.738,

(3.7626)+(0.0031)Gly+(-0.0728)Cit+(0.0058)Arg+(-0.1889)Met+(-0.0047)Lys+(0.0087)Leu;0.683,0.726,0.788,0.813,0.746,0.830,0.778,0.792,(5.2525)+(-0.0876)Asn+(-0.0071)Ala+(-0.0086)Arg+(0.0132)Pro+(-0.0126)Val+(0.0038)Lys;0.683,0.732,0.734,0.731,0.649,0.804,0.869,0.763,(0.3139)+(-0.0000)Gln+(-0.0093)Thr+(-0.0144)Ala+(0.0063)Pro+(0.0394)Ile+(0.0091)Phe;0.683,0.732,0.724,0.755,0.714,0.745,0.648,0.715,(4.3480)+(-0.0762)Asn+(-0.0115)Arg+(0.0050)Pro+(-0.0453)Tyr+(0.0314)Orn+(-0.0071)Lys;0.683,0.733,0.802,0.837,0.780,0.821,0.744,0.796,(4.7301)+(-0.0594)Asn+(0.0012)Gly+(-0.0026)Ala+(-0.0076)Val+(-0.1098)Met+(0.0048)Lys;0.683,0.730,0.758,0.764,0.736,0.779,0.774,0.763,(5.7886)+(-0.1143)Asn+(-0.0443)Cit+(0.0073)Pro+(-0.0363)Val+(-0.0003)Lys+(0.0475)Leu;0.683,0.727,0.762,0.791,0.727,0.800,0.730,0.762,(1.4279)+(-0.0005)Gly+(-0.0078)Ala+(-0.0246)Arg+(-0.0166)Val+(0.0316)Orn+(0.0575)Phe;0.683,0.736,0.733,0.722,0.750,0.750,0.716,0.735,(3.3091)+(-0.1133)Asn+(0.0094)Thr+(-0.0757)Cit+(-0.0044)Arg+(-0.0024)Pro+(0.0303)Ile;0.683,0.731,0.834,0.875,0.794,0.858,0.791,0.830,(3.5046)+(-0.1067)Asn+(-0.0005)Gly+(0.0066)Gln+(-0.0036)Ala+(-0.0122)Arg+(-0.0099)Val;0.683,0.750,0.724,0.756,0.675,0.838,0.661,0.732,(0.8053)+(0.0269)Ser+(-0.0068)Thr+(-0.0061)Ala+(-0.0260)Tyr+(0.0278)Orn+(-0.0141)Lys;0.683,0.733,0.749,0.775,0.707,0.798,0.734,0.754,(1.4966)+(-0.0100)Ala+(-0.0253)Arg+(0.0096)Pro+(-0.0173)Val+(0.0274)Orn+(0.0528)Phe;0.682,0.729,0.700,0.686,0.718,0.779,0.645,0.707,(0.8507)+(0.0377)Ser+(-0.0062)Gly+(0.0006)Gln+(-0.0744)Cit+(0.0035)Pro+(-0.0215)Lys;0.682,0.741,0.759,0.798,0.761,0.808,0.618,0.746,(3.8343)+(0.0233)Thr+(-0.0038)Ala+(-0.0148)Arg+(-0.0074)Tyr+(-0.2081)Met+(-0.0014)Lys;0.682,0.727,0.697,0.681,0.712,0.782,0.645,0.705,(2.3028)+(-0.0015)Gln+(-0.0968)Cit+(0.0013)Pro+(-0.0310)Val+(0.0505)Orn+(0.0293)Leu;0.682,0.737,0.759,0.793,0.730,0.808,0.695,0.756,(4.6187)+(-0.0907)Asn+(0.0119)Thr+(-0.0055)Ala+(-0.0341)Tyr+(0.0297)Orn+(

-0.0081)Lys;0.682,0.735,0.750,0.773,0.737,0.771,0.700,0.745,(1.4720)+(-0.0011)Gly+(0.0035)Gln+(0.0069)Pro+(-0.2630)Met+(0.0158)Orn+(-0.0041)Leu;0.682,0.729,0.725,0.781,0.704,0.708,0.631,0.706,(0.5577)+(-0.0005)Gly+(0.0032)Gln+(-0.0785)Cit+(-0.0723)Tyr+(-0.0162)Leu+(0.0823)Phe;0.682,0.725,0.766,0.784,0.746,0.807,0.731,0.767,(1.8604)+(0.0071)Thr+(-0.0091)Ala+(-0.0688)Cit+(-0.0110)Arg+(-0.0101)Val+(0.0645)Phe;0.682,0.736,0.793,0.823,0.793,0.811,0.702,0.782,(2.5573)+(0.0062)Gln+(-0.0687)Cit+(-0.0021)Tyr+(-0.0038)Val+(-0.1892)Met+(-0.0016)Lys;0.682,0.734,0.731,0.780,0.702,0.728,0.667,0.719,(2.1750)+(-0.0545)Cit+(-0.0089)Arg+(-0.0604)Tyr+(-0.0209)Val+(0.0173)Leu+(0.0814)Phe;0.682,0.734,0.753,0.777,0.746,0.749,0.706,0.744,(4.1693)+(-0.0426)Asn+(0.0088)Pro+(-0.0181)Tyr+(-0.1591)Met+(-0.0004)Lys+(-0.0020)Leu;0.682,0.739,0.718,0.720,0.648,0.798,0.805,0.743,(-1.4927)+(0.0406)Ser+(-0.0058)Gly+(-0.0018)Gln+(-0.0148)Thr+(-0.0098)Ala+(0.0415)Phe;0.682,0.730,0.744,0.748,0.704,0.819,0.762,0.758,(3.1856)+(0.0020)Gly+(-0.0114)Ala+(-0.0756)Cit+(0.0127)Pro+(-0.0222)Val+(0.0325)Leu;0.682,0.731,0.804,0.821,0.788,0.837,0.769,0.804,(5.7139)+(-0.0735)Asn+(-0.0051)Ala+(-0.0646)Cit+(0.0046)Arg+(-0.0049)Val+(-0.0002)Lys;0.682,0.730,0.733,0.728,0.649,0.807,0.868,0.763,(0.5252)+(0.0005)Gly+(-0.0000)Gln+(-0.0094)Thr+(-0.0142)Ala+(0.0065)Pro+(0.0417)Ile;0.682,0.736,0.719,0.700,0.776,0.813,0.584,0.718,(2.9679)+(0.0011)Gly+(-0.0013)Thr+(-0.1134)Cit+(0.0558)Orn+(-0.0203)Lys+(-0.0049)Leu;0.682,0.733,0.786,0.804,0.739,0.827,0.808,0.794,(2.6347)+(-0.1207)Asn+(0.0001)Gly+(0.0038)Gln+(0.0052)Thr+(-0.0097)Ala+(0.0090)Pro;0.682,0.729,0.724,0.784,0.648,0.740,0.716,0.722,(0.9709)+(0.0005)Gln+(-0.0097)Ala+(0.0117)Pro+(-0.0628)Tyr+(-0.0151)Leu+(0.0728)Phe;0.682,0.732,0.751,0.779,0.677,0.824,0.780,0.765,(3.1593)+(-0.0031)Gly+(-0.0064)Ala+(-0.0363)Tyr+(-0.0302)Val+(0.0337)Orn+(0.0399)Leu;0.682,0.729,0.729,0.757,0.737,0.748,0.622,0.716,(3.2430)+(-0

.0012)Gly+(0.0218)Thr+(-0.0146)Tyr+(-0.2434)Met+(-0.0074)Lys+(0.0079)Leu;0.682,0.731,0.721,0.754,0.738,0.772,0.562,0.706,(3.4541)+(0.0191)Thr+(-0.0171)Arg+(-0.0168)Tyr+(-0.2125)Met+(0.0237)Orn+(-0.0055)Lys;0.682,0.730,0.677,0.699,0.637,0.700,0.684,0.680,(1.6436)+(-0.0020)Gly+(0.0102)Thr+(-0.0760)Tyr+(-0.0242)Lys+(0.0371)Ile+(0.0502)Phe;0.682,0.729,0.685,0.680,0.706,0.782,0.587,0.689,(0.4705)+(0.0334)Ser+(0.0006)Gln+(-0.0091)Thr+(-0.0795)Cit+(0.0049)Pro+(-0.0182)Lys;0.682,0.727,0.766,0.779,0.751,0.807,0.731,0.767,(1.7285)+(0.0055)Thr+(-0.0103)Ala+(-0.0784)Cit+(-0.0089)Arg+(-0.0075)Leu+(0.0572)Phe;0.682,0.735,0.717,0.697,0.775,0.814,0.579,0.716,(2.9398)+(0.0010)Gly+(-0.1137)Cit+(0.0002)Pro+(0.0552)Orn+(-0.0208)Lys+(-0.0050)Leu;0.682,0.738,0.686,0.691,0.666,0.817,0.619,0.698,(1.0154)+(0.0321)Ser+(-0.0012)Gln+(-0.0172)Arg+(-0.0301)Val+(-0.0152)Lys+(0.0446)Leu;0.682,0.731,0.772,0.777,0.747,0.797,0.789,0.778,(5.8050)+(-0.1092)Asn+(-0.0488)Cit+(0.0050)Arg+(-0.0343)Val+(-0.0020)Lys+(0.0505)Leu;0.682,0.728,0.728,0.727,0.753,0.808,0.618,0.726,(2.7809)+(-0.0045)Thr+(-0.0890)Cit+(-0.0136)Arg+(0.0031)Pro+(-0.0158)Val+(0.0516)Orn;0.682,0.727,0.732,0.771,0.690,0.801,0.667,0.732,(3.3847)+(-0.0090)Ala+(-0.0208)Arg+(0.0121)Pro+(-0.0414)Tyr+(0.0287)Orn+(-0.0083)Leu;0.682,0.744,0.690,0.708,0.654,0.751,0.675,0.697,(1.1712)+(0.0418)Ser+(-0.0103)Gly+(-0.0001)Gln+(0.0073)Pro+(-0.0521)Tyr+(-0.0160)Lys;0.682,0.737,0.640,0.598,0.663,0.736,0.632,0.657,(-2.6652)+(0.0351)Ser+(-0.0273)Thr+(-0.1078)Cit+(0.0295)Orn+(0.0229)Ile+(0.0092)Phe;0.682,0.736,0.738,0.778,0.722,0.749,0.659,0.727,(0.8583)+(0.0048)Gln+(-0.0802)Cit+(-0.0027)Arg+(-0.0646)Tyr+(-0.0165)Lys+(0.0767)Phe;0.682,0.730,0.697,0.728,0.671,0.703,0.668,0.692,(1.7938)+(-0.0026)Gly+(0.0031)Pro+(-0.0726)Tyr+(0.0256)Orn+(-0.0197)Lys+(0.0587)Phe;0.682,0.730,0.761,0.771,0.739,0.823,0.734,0.767,(2.2800)+(0.0018)Gly+(0.0024)Gln+(-0.0125)Ala+(-0.0867)Cit+(-0.0069)Arg+(0.0119)Pro;0.6

82,0.730,0.680,0.670,0.703,0.781,0.585,0.685,(0.5634)+(0.0342)Ser+(-0.0087)Thr+(-0.0789)Cit+(0.0047)Pro+(-0.0186)Lys+(0.0017)Leu;0.682,0.723,0.733,0.766,0.685,0.789,0.702,0.736,(3.3217)+(-0.0017)Gly+(-0.0096)Ala+(-0.0195)Arg+(0.0113)Pro
+(-0.0447)Tyr+(0.0263)Orn;0.682,0.733,0.570,0.600,0.547,0.629,0.496,0.568,(-1.3510)+(0.0304)Ser+(-0.0047)Gln+(0.0042)Pro+(-0.0858)Tyr+(0.0072)Orn+(0.0589)Phe;0.682,0.727,0.765,0.795,0.747,0.790,0.704,0.759,(2.1278)+(-0.0021)Gly+(0.0041)Gln+(-0.0154)Tyr+(-0.1936)Met+(0.0253)Orn+(-0.0084)Lys;0.682,0.734,0.805,0.838,0.778,0.820,0.763,0.800,(1.8482)+(-0.0006)Gly+(0.0054)Gln+(-0.0044)Ala+(-0.0126)Arg+(-0.1963)Met+(0.0059)Leu;0.682,0.737,0.753,0.778,0.751,0.751,0.696,0.744,(4.2234)+(-0.0378)Asn+(-0.0062)Arg+(0.0087)Pro+(-0.0181)Tyr+(-0.1595)Met+(0.0001)Lys;0.682,0.736,0.791,0.835,0.749,0.825,0.737,0.786,(3.4469)+(-0.1144)Asn+(0.0052)Gln+(0.0141)Thr+(-0.0052)Ala+(-0.0318)Tyr+(-0.0063)Lys;0.682,0.736,0.658,0.682,0.643,0.677,0.613,0.654,(0.8096)+(0.0015)Gly+(-0.0842)Cit+(0.0006)Pro+(-0.0766)Tyr+(0.0314)Ile+(0.0450)Phe;0.682,0.730,0.754,0.760,0.737,0.825,0.720,0.761,(3.1016)+(0.0026)Gly+(-0.0122)Ala+(-0.0851)Cit+(-0.0041)Arg+(0.0127)Pro+(-0.0006)Leu;0.682,0.732,0.743,0.762,0.719,0.811,0.694,0.746,(1.4800)+(0.0406)Ser+(-0.0087)Gly+(-0.0019)Thr+(-0.0200)Arg+(-0.0090)Val+(-0.0110)Lys;0.682,0.723,0.704,0.723,0.705,0.733,0.630,0.698,(-1.3185)+(0.0369)Ser+(-0.0074)Gly+(-0.0358)Arg+(0.0032)Pro+(-0.0243)Leu+(0.0432)Phe;0.682,0.742,0.742,0.764,0.706,0.853,0.678,0.750,(0.5089)+(0.0313)Ser+(-0.0029)Thr+(-0.0070)Ala+(-0.0158)Arg+(-0.0126)Lys+(0.0062)Leu;0.682,0.730,0.762,0.769,0.742,0.809,0.754,0.768,(1.6267)+(-0.0002)Gly+(-0.0092)Ala+(-0.0170)Arg+(0.0263)Orn+(-0.0146)Lys+(0.0422)Phe;0.682,0.738,0.756,0.762,0.715,0.849,0.760,0.771,(3.2122)+(-0.0069)Ala+(-0.0158)Arg+(-0.0322)Val+(0.0382)Orn+(-0.0102)Lys+(0.0458)Leu;0.682,0.732,0.717,0.743,0.724,0.760,

0.602,0.707,(2.9189)+(0.0166)Thr+(-0.0165)Tyr+(-0.2291)Met+(0.0202)Orn+(-0.0095)Lys+(0.0055)Leu;0.682,0.731,0.723,0.741,0.693,0.740,0.729,0.726,(3.8004)+(-0.0644)Asn+(-0.0070)Arg+(0.0014)Pro+(-0.0459)Tyr+(-0.0101)Lys+(0.0410)Ile;0.682,0.731,0.674,0.699,0.633,0.707,0.670,0.677,(0.9432)+(0.0011)Gln+(0.0073)Thr+(-0.0737)Tyr+(-0.0249)Lys+(0.0378)Ile+(0.0486)Phe;0.682,0.725,0.758,0.771,0.733,0.831,0.721,0.764,(3.4322)+(0.0019)Gly+(0.0013)Thr+(-0.0113)Ala+(-0.0815)Cit+(0.0133)Pro+(-0.0061)Val;0.682,0.736,0.704,0.727,0.670,0.734,0.693,0.706,(3.7977)+(-0.0867)Asn+(0.0144)Thr+(0.0003)Pro+(-0.0532)Tyr+(-0.0144)Lys+(0.0423)Ile;0.682,0.744,0.737,0.783,0.695,0.843,0.624,0.736,(0.8938)+(0.0267)Ser+(0.0001)Gln+(-0.0063)Ala+(-0.0218)Arg+(-0.0303)Tyr+(0.0022)Leu;0.682,0.729,0.767,0.800,0.757,0.790,0.681,0.757,(1.9745)+(-0.0018)Gly+(0.0047)Gln+(-0.0175)Arg+(-0.0157)Tyr+(-0.2014)Met+(0.0239)Orn;0.682,0.746,0.708,0.720,0.677,0.779,0.687,0.716,(1.0729)+(0.0410)Ser+(-0.0104)Gly+(-0.0052)Thr+(-0.0464)Tyr+(0.0281)Orn+(-0.0173)Lys;0.682,0.739,0.736,0.767,0.705,0.794,0.679,0.736,(1.3460)+(0.0411)Ser+(-0.0101)Gly+(0.0016)Gln+(-0.0188)Arg+(-0.0416)Tyr+(-0.0115)Lys;0.682,0.732,0.800,0.838,0.786,0.794,0.732,0.788,(2.3760)+(-0.0657)Asn+(0.0070)Gln+(-0.0112)Arg+(-0.0123)Tyr+(-0.1501)Met+(0.0004)Leu;0.682,0.739,0.762,0.780,0.705,0.849,0.774,0.777,(1.2375)+(0.0385)Ser+(-0.0080)Gly+(-0.0038)Thr+(-0.0057)Ala+(-0.0045)Val+(-0.0125)Lys;0.682,0.735,0.687,0.681,0.742,0.798,0.507,0.682,(0.2255)+(0.0217)Ser+(-0.0916)Cit+(-0.0223)Arg+(0.0015)Pro+(0.0361)Orn+(-0.0154)Leu;0.682,0.729,0.761,0.779,0.774,0.752,0.696,0.750,(2.7985)+(-0.1019)Asn+(-0.0154)Arg+(0.0284)Orn+(-0.0068)Lys+(-0.0208)Leu+(0.0559)Phe;0.682,0.725,0.688,0.737,0.678,0.678,0.583,0.669,(1.4240)+(0.0051)Thr+(-0.0750)Cit+(0.0062)Pro+(-0.0783)Tyr+(-0.0187)Leu+(0.0820)Phe;0.682,0.731,0.739,0.742,0.763,0.814,0.626,0.736,(2.4836)+(0.0011)Gln+(-0.0046)Thr+(-0.0910)Cit+(-0.0141)Arg+(-0.0

148)Val+(0.0520)Orn;0.682,0.728,0.701,0.686,0.715,0.785,0.651,0.709,(2.3234)+(-0.0002)Gly+(-0.0013)Gln+(-0.0971)Cit+(-0.0308)Val+(0.0511)Orn+(0.0296)Leu;0.682,0.726,0.767,0.775,0.744,0.820,0.755,0.774,(2.3720)+(0.0028)Gln+(0.0008)Thr+(-0.0124)Ala+(-0.0842)Cit+(-0.0073)Arg+(0.0116)Pro;0.682,0.736,0.749,0.761,0.764,0.763,0.676,0.741,(4.1906)+(-0.0640)Cit+(0.0019)Arg+(0.0091)Pro+(-0.0137)Tyr+(-0.1930)Met+(0.0012)Leu;0.682,0.735,0.794,0.825,0.793,0.813,0.697,0.782,(2.5482)+(0.0063)Gln+(-0.0655)Cit+(-0.0041)Arg+(-0.0020)Tyr+(-0.0043)Val+(-0.1894)Met;0.682,0.732,0.750,0.784,0.732,0.765,0.683,0.741,(3.8364)+(0.0001)Gly+(0.0117)Pro+(-0.0101)Tyr+(-0.0106)Val+(-0.2035)Met+(0.0030)Lys;0.682,0.741,0.760,0.781,0.763,0.783,0.681,0.752,(4.7847)+(-0.0564)Cit+(0.0011)Arg+(0.0113)Pro+(-0.0094)Tyr+(-0.0076)Val+(-0.1774)Met;0.682,0.734,0.683,0.668,0.693,0.761,0.645,0.692,(-0.9934)+(0.0252)Ser+(-0.0052)Gly+(-0.0987)Cit+(-0.0188)Val+(0.0388)Orn+(0.0408)Phe;0.682,0.733,0.723,0.718,0.652,0.834,0.803,0.752,(1.1286)+(0.0339)Ser+(-0.0069)Gly+(-0.0023)Gln+(-0.0076)Ala+(-0.0302)Val+(0.0435)Leu;0.682,0.737,0.761,0.778,0.704,0.851,0.771,0.776,(1.2889)+(0.0370)Ser+(-0.0082)Gly+(0.0001)Gln+(-0.0059)Ala+(-0.0048)Val+(-0.0137)Lys;0.681,0.728,0.678,0.719,0.670,0.716,0.563,0.667,(1.6294)+(0.0116)Thr+(-0.0212)Arg+(-0.0723)Tyr+(0.0243)Orn+(-0.0183)Lys+(0.0652)Phe;0.681,0.724,0.702,0.714,0.697,0.746,0.649,0.701,(-0.6725)+(0.0352)Ser+(-0.0056)Gly+(-0.0498)Cit+(-0.0244)Arg+(-0.0160)Val+(0.0553)Phe;0.681,0.735,0.759,0.798,0.725,0.799,0.699,0.755,(4.4476)+(-0.1010)Asn+(0.0101)Thr+(-0.0055)Ala+(-0.0355)Tyr+(0.0278)Orn+(-0.0043)Leu;0.681,0.735,0.780,0.809,0.787,0.792,0.678,0.766,(2.1865)+(0.0007)Gly+(0.0062)Gln+(-0.0711)Cit+(-0.0037)Arg+(-0.0042)Tyr+(-0.2025)Met;0.681,0.729,0.708,0.696,0.721,0.783,0.657,0.714,(1.0009)+(0.0407)Ser+(-0.0059)Gly+(-0.0061)Thr+(-0.0712)Cit+(-0.0190)Lys+(0.0037)Leu;0.681,0.723,0.755,0.761,0.711,0.819,0.785,0.769,(2.8

255)+(0.0017)Gln+(-0.0115)Ala+(-0.0752)Cit+(0.0122)Pro+(-0.0218)Val+(0.0308)Leu;0.681,0.732,0.692,0.700,0.605,0.831,0.752,0.722,(-0.0710)+(0.0189)Ser+(-0.0112)Ala+(0.0098)Pro+(-0.0317)Val+(0.0162)Orn+(0.0382)Leu;0.681,0.739,0.731,0.734,0.657,0.816,0.817,0.756,(-0.2442)+(0.0396)Ser+(-0.0068)Gly+(-0.0170)Thr+(-0.0110)Ala+(0.0129)Pro+(-0.0054)Leu;0.681,0.734,0.747,0.744,0.712,0.797,0.790,0.761,(1.4490)+(-0.0008)Gly+(-0.0116)Ala+(0.0080)Pro+(0.0199)Orn+(-0.0187)Lys+(0.0359)Phe;0.681,0.737,0.739,0.753,0.667,0.796,0.812,0.757,(-1.7405)+(0.0384)Ser+(-0.0064)Gly+(-0.0150)Thr+(-0.0090)Ala+(-0.0093)Leu+(0.0482)Phe;0.681,0.739,0.725,0.729,0.658,0.832,0.781,0.750,(0.4889)+(0.0291)Ser+(-0.0081)Gly+(-0.0105)Ala+(0.0115)Pro+(-0.0132)Val+(0.0161)Orn;0.681,0.739,0.702,0.725,0.714,0.823,0.531,0.698,(1.2309)+(0.0268)Ser+(-0.0011)Gln+(-0.0241)Arg+(-0.0116)Val+(0.0294)Orn+(-0.0125)Lys;0.681,0.733,0.757,0.757,0.704,0.840,0.807,0.777,(3.0538)+(-0.0018)Gly+(-0.0073)Ala+(-0.0322)Val+(0.0356)Orn+(-0.0143)Lys+(0.0474)Leu;0.681,0.732,0.669,0.698,0.641,0.710,0.617,0.667,(1.6175)+(0.0141)Thr+(-0.0192)Arg+(-0.0740)Tyr+(-0.0210)Lys+(0.0370)Ile+(0.0528)Phe;0.681,0.725,0.770,0.779,0.747,0.822,0.753,0.775,(2.4604)+(0.0029)Gln+(-0.0121)Ala+(-0.0832)Cit+(-0.0072)Arg+(0.0118)Pro+(-0.0022)Leu;0.681,0.746,0.699,0.698,0.634,0.805,0.760,0.724,(-1.7124)+(0.0344)Ser+(-0.0030)Gln+(-0.0180)Thr+(-0.0102)Ala+(0.0163)Orn+(0.0413)Phe;0.681,0.742,0.740,0.761,0.695,0.852,0.695,0.751,(0.6234)+(0.0269)Ser+(-0.0093)Thr+(-0.0064)Ala+(-0.0064)Val+(0.0293)Orn+(-0.0132)Lys;0.681,0.735,0.761,0.781,0.754,0.828,0.677,0.760,(4.4132)+(0.0146)Thr+(-0.0078)Ala+(-0.0797)Cit+(-0.0284)Tyr+(-0.0122)Lys+(0.0109)Leu;0.681,0.733,0.694,0.719,0.648,0.719,0.709,0.699,(0.8650)+(0.0018)Gln+(-0.0006)Pro+(-0.0683)Tyr+(-0.0228)Lys+(0.0388)Ile+(0.0459)Phe;0.681,0.730,0.774,0.818,0.744,0.778,0.715,0.764,(3.2075)+(-0.1144)Asn+(-0.0018)Gly+(0.0048)Gln+(-0.0431)Tyr+(0.0269)Orn+(-0.01

05)Leu;0.681,0.738,0.694,0.736,0.659,0.660,0.679,0.683,(2.1520)+(-0.1246)Asn+(0.0136)Thr+(0.0013)Pro+(-0.0767)Tyr+(0.0200)Ile+(0.0576)Phe;0.681,0.731,0.758,0.777,0.760,0.792,0.677,0.751,(5.6818)+(-0.1147)Asn+(0.0136)Thr+(-0.0581)Cit+(0.0070)Pro+(-0.0133)Val+(-0.0023)Lys;0.681,0.730,0.747,0.793,0.723,0.756,0.666,0.735,(2.7675)+(-0.1056)Asn+(0.0052)Gln+(-0.0186)Arg+(0.0042)Pro+(-0.0495)Tyr+(0.0232)Orn;0.681,0.728,0.764,0.797,0.728,0.804,0.727,0.764,(1.1071)+(0.0007)Gln+(-0.0079)Ala+(-0.0256)Arg+(-0.0165)Val+(0.0306)Orn+(0.0570)Phe;0.681,0.736,0.690,0.727,0.658,0.798,0.580,0.691,(1.3584)+(0.0272)Ser+(-0.0009)Gln+(-0.0222)Arg+(-0.0342)Tyr+(-0.0272)Val+(0.0371)Leu;0.681,0.736,0.725,0.704,0.780,0.813,0.598,0.724,(3.1353)+(-0.1102)Cit+(-0.0021)Arg+(0.0003)Pro+(0.0553)Orn+(-0.0199)Lys+(-0.0057)Leu;0.681,0.734,0.750,0.789,0.740,0.757,0.659,0.736,(1.6996)+(-0.0023)Gly+(0.0037)Gln+(0.0175)Thr+(-0.0154)Tyr+(-0.2721)Met+(0.0033)Leu;0.681,0.733,0.755,0.790,0.730,0.758,0.711,0.747,(1.7927)+(-0.0012)Gly+(0.0043)Gln+(0.0085)Pro+(-0.0166)Tyr+(-0.2365)Met+(-0.0016)Leu;0.681,0.734,0.697,0.754,0.654,0.707,0.627,0.686,(1.4902)+(0.0096)Thr+(0.0063)Pro+(-0.0721)Tyr+(-0.0145)Val+(-0.0133)Lys+(0.0830)Phe;0.681,0.733,0.813,0.846,0.794,0.827,0.754,0.805,(3.5717)+(-0.1204)Asn+(0.0079)Gln+(-0.0658)Cit+(-0.0041)Arg+(-0.0097)Val+(-0.0013)Lys;0.681,0.731,0.731,0.725,0.649,0.805,0.864,0.761,(0.5484)+(-0.0001)Gln+(-0.0101)Thr+(-0.0141)Ala+(0.0063)Pro+(0.0063)Orn+(0.0395)Ile;0.681,0.736,0.705,0.731,0.656,0.717,0.732,0.709,(1.0409)+(-0.0019)Gly+(0.0023)Gln+(-0.0701)Tyr+(-0.0225)Lys+(0.0372)Ile+(0.0459)Phe;0.681,0.727,0.794,0.817,0.746,0.830,0.807,0.800,(2.8858)+(-0.1105)Asn+(0.0001)Gly+(0.0042)Gln+(-0.0089)Ala+(0.0102)Pro+(-0.0067)Leu;0.681,0.727,0.724,0.725,0.725,0.799,0.667,0.729,(1.6160)+(0.0385)Ser+(-0.0065)Gly+(-0.0047)Thr+(-0.0641)Cit+(-0.0047)Val+(-0.0149)Lys;0.681,0.736,0.665,0.701,0.661,0.776,0.501,0.660,(0.8818)+(0.0307)Ser+(

-0.0003)Gln+(-0.0207)Arg+(0.0074)Pro+(-0.0436)Tyr+(-0.0119)Lys;0.681,0.734,0.753,0.821,0.707,0.752,0.669,0.737,(1.0195)+(0.0031)Gln+(-0.0193)Arg+(-0.0602)Tyr+(-0.0134)Val+(-0.0060)Lys+(0.0830)Phe;0.681,0.731,0.785,0.803,0.743,0.826,0.793,0.791,(2.9229)+(-0.1147)Asn+(0.0034)Gln+(-0.0090)Ala+(0.0093)Pro+(0.0203)Orn+(-0.0098)Leu;0.681,0.723,0.694,0.744,0.681,0.684,0.597,0.676,(1.4786)+(0.0007)Gly+(-0.0737)Cit+(0.0066)Pro+(-0.0738)Tyr+(-0.0184)Leu+(0.0817)Phe;0.681,0.742,0.739,0.763,0.705,0.851,0.670,0.747,(0.5865)+(0.0304)Ser+(-0.0001)Gln+(-0.0072)Ala+(-0.0168)Arg+(-0.0133)Lys+(0.0060)Leu;0.681,0.735,0.758,0.800,0.716,0.868,0.657,0.760,(0.9587)+(0.0271)Ser+(0.0002)Gln+(-0.0037)Thr+(-0.0060)Ala+(-0.0214)Arg+(-0.0071)Val;0.681,0.735,0.806,0.831,0.782,0.843,0.763,0.805,(2.8555)+(-0.1037)Asn+(0.0049)Gln+(-0.0063)Ala+(-0.0171)Arg+(0.0270)Orn+(-0.0076)Leu;0.681,0.725,0.726,0.727,0.728,0.801,0.666,0.731,(1.4219)+(0.0358)Ser+(-0.0068)Gly+(0.0011)Gln+(-0.0669)Cit+(-0.0051)Val+(-0.0171)Lys;0.681,0.738,0.722,0.733,0.651,0.838,0.758,0.745,(-0.0147)+(0.0280)Ser+(-0.0186)Thr+(-0.0102)Ala+(0.0131)Pro+(-0.0111)Val+(0.0222)Orn;0.681,0.737,0.714,0.732,0.644,0.810,0.743,0.732,(-1.5937)+(0.0331)Ser+(-0.0023)Gln+(-0.0144)Thr+(-0.0091)Ala+(-0.0084)Leu+(0.0538)Phe;0.681,0.728,0.787,0.808,0.792,0.794,0.714,0.777,(5.4521)+(-0.0531)Asn+(-0.0558)Cit+(0.0033)Arg+(-0.0067)Val+(-0.1161)Met+(0.0037)Lys;0.681,0.737,0.644,0.615,0.715,0.764,0.487,0.645,(-0.2248)+(0.0260)Ser+(-0.0023)Gln+(-0.0938)Cit+(-0.0206)Arg+(-0.0008)Pro+(0.0323)Orn;0.681,0.736,0.699,0.732,0.677,0.716,0.646,0.692,(3.5238)+(-0.0958)Asn+(0.0007)Gly+(0.0153)Thr+(-0.0180)Arg+(-0.0569)Tyr+(0.0361)Ile;0.681,0.733,0.718,0.778,0.677,0.711,0.647,0.703,(2.0441)+(-0.0177)Arg+(0.0080)Pro+(-0.0642)Tyr+(-0.0153)Val+(-0.0045)Lys+(0.0819)Phe;0.681,0.732,0.710,0.685,0.772,0.811,0.575,0.711,(2.8194)+(0.0013)Gly+(-0.1142)Cit+(-0.0007)Arg+(-0.00

05)Pro+(0.0544)Orn+(-0.0224)Lys;0.681,0.729,0.751,0.763,0.734,0.808,0.710,0.754,(1.1726)+(0.0029)Gly+(0.0034)Thr+(-0.0111)Ala+(-0.0854)Cit+(-0.0078)Arg+(0.0526)Phe;0.681,0.727,0.770,0.784,0.744,0.809,0.758,0.774,(0.7620)+(0.0028)Gln+(0.0026)Thr+(-0.0112)Ala+(-0.0838)Cit+(-0.0100)Arg+(0.0471)Phe;0.681,0.737,0.700,0.732,0.707,0.733,0.577,0.687,(2.2693)+(0.0174)Thr+(-0.0757)Cit+(-0.0047)Arg+(-0.0720)Tyr+(-0.0188)Lys+(0.0818)Phe;0.681,0.737,0.760,0.798,0.745,0.771,0.681,0.749,(1.9498)+(0.0050)Gln+(-0.0147)Arg+(0.0087)Pro+(-0.0147)Tyr+(-0.2224)Met+(-0.0017)Leu;0.681,0.736,0.656,0.696,0.646,0.746,0.508,0.649,(-0.0705)+(0.0294)Ser+(-0.0088)Thr+(-0.0264)Arg+(0.0062)Pro+(-0.0538)Tyr+(0.0188)Orn;0.681,0.727,0.762,0.776,0.740,0.832,0.720,0.767,(3.6353)+(0.0021)Gly+(-0.0109)Ala+(-0.0763)Cit+(-0.0047)Arg+(0.0135)Pro+(-0.0061)Val;0.681,0.740,0.760,0.771,0.695,0.847,0.801,0.779,(0.4135)+(0.0344)Ser+(-0.0074)Gly+(-0.0138)Thr+(-0.0068)Ala+(-0.0099)Val+(0.0264)Orn;0.681,0.736,0.721,0.754,0.690,0.767,0.665,0.719,(0.9373)+(0.0399)Ser+(-0.0098)Gly+(0.0008)Gln+(-0.0019)Thr+(-0.0236)Arg+(-0.0514)Tyr;0.681,0.734,0.696,0.720,0.616,0.797,0.724,0.714,(-1.5602)+(0.0203)Ser+(-0.0116)Ala+(0.0097)Pro+(-0.0162)Val+(0.0118)Orn+(0.0484)Phe;0.681,0.728,0.729,0.753,0.640,0.789,0.808,0.748,(1.4590)+(-0.0017)Gly+(0.0010)Gln+(0.0008)Thr+(-0.0106)Ala+(-0.0488)Tyr+(0.0504)Ile;0.681,0.744,0.738,0.783,0.694,0.843,0.635,0.739,(0.8716)+(0.0276)Ser+(-0.0017)Thr+(-0.0063)Ala+(-0.0209)Arg+(-0.0292)Tyr+(0.0025)Leu;0.681,0.738,0.766,0.794,0.766,0.816,0.652,0.757,(5.1521)+(-0.1165)Asn+(-0.0002)Gly+(0.0115)Thr+(-0.0174)Arg+(-0.0175)Val+(0.0368)Orn;0.681,0.735,0.802,0.831,0.770,0.827,0.775,0.801,(1.8487)+(0.0048)Gln+(-0.0045)Ala+(-0.0028)Tyr+(-0.1944)Met+(-0.0058)Lys+(0.0093)Leu;0.681,0.733,0.772,0.820,0.754,0.793,0.667,0.758,(3.1853)+(-0.1035)Asn+(0.0055)Gln+(-0.0184)Arg+(-0.0395)Tyr+(0.0298)Orn+(-0.0102)Leu;0.681,0.731,0.730,0.724,0.648,0.805,0.862,

0.760,(0.4619)+(0.0004)Gly+(-0.0105)Thr+(-0.0141)Ala+(0.0063)Pro+(0.0062)Orn+(0.0398)Ile;0.681,0.743,0.691,0.710,0.654,0.752,0.676,0.698,(1.1417)+(0.0417)Ser+(-0.0104)Gly+(0.0072)Pro+(-0.0522)Tyr+(-0.0161)Lys+(-0.0000)Leu;0.681,0.743,0.722,0.743,0.687,0.852,0.646,0.732,(1.2222)+(0.0256)Ser+(-0.0017)Gln+(-0.0066)Ala+(-0.0069)Val+(0.0277)Orn+(-0.0147)Lys;0.681,0.735,0.787,0.814,0.791,0.806,0.692,0.776,(2.3826)+(0.0065)Gln+(-0.0708)Cit+(-0.0022)Arg+(-0.0044)Tyr+(-0.1910)Met+(-0.0033)Lys;0.681,0.734,0.705,0.696,0.703,0.779,0.679,0.714,(0.1458)+(0.0436)Ser+(-0.0083)Gly+(-0.0094)Thr+(-0.0189)Arg+(0.0248)Orn+(-0.0193)Lys;0.681,0.734,0.779,0.798,0.780,0.804,0.708,0.772,(2.6202)+(-0.1185)Asn+(0.0028)Gly+(0.0071)Gln+(-0.0839)Cit+(0.0031)Pro+(-0.0091)Lys;0.681,0.734,0.725,0.704,0.780,0.815,0.604,0.726,(3.1139)+(-0.0009)Thr+(-0.1118)Cit+(0.0003)Pro+(0.0557)Orn+(-0.0202)Lys+(-0.0055)Leu;0.681,0.739,0.754,0.787,0.689,0.835,0.745,0.764,(1.6077)+(0.0340)Ser+(-0.0091)Gly+(-0.0001)Gln+(-0.0050)Ala+(-0.0360)Tyr+(-0.0060)Val;0.681,0.734,0.701,0.766,0.691,0.708,0.546,0.678,(1.1855)+(0.0072)Thr+(-0.0293)Arg+(-0.0744)Tyr+(0.0262)Orn+(-0.0234)Leu+(0.0810)Phe;0.681,0.726,0.674,0.663,0.704,0.784,0.560,0.678,(0.6479)+(0.0308)Ser+(0.0001)Gln+(-0.0821)Cit+(0.0036)Pro+(-0.0217)Lys+(0.0022)Leu;0.681,0.733,0.776,0.792,0.746,0.827,0.761,0.782,(4.3502)+(-0.0868)Asn+(0.0116)Thr+(-0.0093)Ala+(-0.0107)Arg+(0.0101)Pro+(-0.0056)Lys;0.681,0.736,0.659,0.681,0.645,0.669,0.619,0.654,(0.9493)+(0.0042)Thr+(-0.0834)Cit+(0.0004)Pro+(-0.0806)Tyr+(0.0306)Ile+(0.0448)Phe;0.681,0.723,0.690,0.691,0.699,0.789,0.596,0.694,(1.0686)+(0.0318)Ser+(-0.0081)Thr+(-0.0719)Cit+(0.0066)Pro+(-0.0063)Val+(-0.0147)Lys;0.680,0.735,0.804,0.819,0.771,0.843,0.803,0.809,(2.8705)+(-0.1015)Asn+(-0.0006)Gly+(0.0045)Gln+(-0.0069)Ala+(0.0257)Orn+(-0.0100)Lys;0.680,0.734,0.765,0.790,0.751,0.775,0.719,0.759,(1.6704)+(-0.0007)Gly+(0.0046)Gln+(0.0074)Pro+(-0.2494)Met+(-0.0056)Ly

s+(0.0012)Leu;0.680,0.737,0.658,0.684,0.653,0.686,0.580,0.651,(1.1826)+(0.0086)Thr+(-0.0734)Cit+(-0.0138)Arg+(-0.0800)Tyr+(0.0308)Ile+(0.0478)Phe;0.680,0.734,0.715,0.775,0.675,0.721,0.633,0.701,(1.1715)+(0.0009)Gln+(0.0105)Thr+(-0.0686)Tyr+(-0.0131)Val+(-0.0140)Lys+(0.0858)Phe;0.680,0.732,0.657,0.642,0.671,0.755,0.598,0.667,(-1.2580)+(0.0188)Ser+(-0.1019)Cit+(-0.0289)Val+(0.0396)Orn+(0.0208)Leu+(0.0360)Phe;0.680,0.732,0.734,0.773,0.728,0.768,0.619,0.722,(1.5316)+(0.0028)Gln+(0.0135)Thr+(-0.0151)Tyr+(-0.2649)Met+(0.0133)Orn+(0.0015)Leu;0.680,0.732,0.815,0.854,0.779,0.838,0.772,0.811,(2.3251)+(-0.0012)Gly+(0.0049)Gln+(-0.0031)Ala+(-0.0051)Val+(-0.1836)Met+(-0.0009)Lys;0.680,0.724,0.732,0.771,0.680,0.799,0.688,0.734,(2.4689)+(0.0017)Gln+(-0.0097)Ala+(-0.0223)Arg+(0.0111)Pro+(-0.0443)Tyr+(0.0236)Orn;0.680,0.737,0.723,0.754,0.635,0.845,0.739,0.743,(0.7130)+(0.0245)Ser+(-0.0054)Thr+(-0.0065)Ala+(-0.0260)Tyr+(-0.0260)Val+(0.0411)Leu;0.680,0.737,0.701,0.726,0.625,0.834,0.702,0.722,(1.3570)+(0.0255)Ser+(-0.0024)Gln+(-0.0065)Ala+(-0.0271)Tyr+(-0.0276)Val+(0.0442)Leu;0.680,0.734,0.723,0.767,0.704,0.736,0.637,0.711,(4.2919)+(-0.1081)Asn+(0.0074)Thr+(0.0059)Pro+(-0.0488)Tyr+(0.0261)Orn+(-0.0122)Leu;0.680,0.731,0.721,0.779,0.645,0.740,0.711,0.719,(1.0815)+(0.0021)Thr+(-0.0097)Ala+(0.0117)Pro+(-0.0639)Tyr+(-0.0152)Leu+(0.0736)Phe;0.680,0.729,0.774,0.782,0.752,0.835,0.751,0.780,(4.3136)+(-0.0105)Ala+(-0.0752)Cit+(0.0001)Arg+(0.0133)Pro+(-0.0045)Val+(-0.0062)Lys;0.680,0.727,0.730,0.767,0.681,0.728,0.736,0.728,(2.0678)+(-0.1162)Asn+(-0.0003)Gly+(0.0041)Gln+(-0.0558)Tyr+(0.0128)Orn+(0.0287)Ile;0.680,0.741,0.746,0.750,0.689,0.837,0.787,0.766,(0.5456)+(0.0411)Ser+(-0.0076)Gly+(-0.0052)Thr+(-0.0071)Ala+(-0.0167)Lys+(0.0070)Leu;0.680,0.735,0.748,0.746,0.713,0.798,0.788,0.761,(1.3644)+(-0.0028)Thr+(-0.0116)Ala+(0.0082)Pro+(0.0206)Orn+(-0.0180)Lys+(0.0362)Phe;0.680,0.731,0.772,0.802,0.769,0.798,0.684,0.763,(1.7634)+(-0.0013

)Gly+(0.0047)Gln+(-0.0176)Arg+(-0.2237)Met+(0.0228)Orn+(-0.0023)Leu;0.680,0.730,0.736,0.775,0.751,0.764,0.582,0.718,(3.8318)+(-0.0012)Gly+(0.0243)Thr+(-0.0154)Arg+(-0.0135)Tyr+(-0.2266)Met+(-0.0025)Lys;0.680,0.748,0.699,0.712,0.671,0.779,0.668,0.707,(1.3363)+(0.0398)Ser+(-0.0106)Gly+(-0.0005)Gln+(-0.0490)Tyr+(0.0270)Orn+(-0.0183)Lys;0.680,0.732,0.714,0.774,0.663,0.708,0.667,0.703,(1.2546)+(0.0012)Gln+(0.0067)Pro+(-0.0672)Tyr+(-0.0140)Val+(-0.0107)Lys+(0.0782)Phe;0.680,0.738,0.722,0.791,0.689,0.710,0.614,0.701,(2.0109)+(-0.0027)Gly+(0.0164)Thr+(-0.0260)Arg+(-0.0732)Tyr+(-0.0163)Val+(0.0895)Phe;0.680,0.737,0.664,0.690,0.655,0.693,0.595,0.658,(1.0014)+(0.0019)Gly+(-0.0762)Cit+(-0.0096)Arg+(-0.0729)Tyr+(0.0324)Ile+(0.0470)Phe;0.680,0.730,0.778,0.795,0.741,0.824,0.776,0.784,(4.0902)+(-0.0768)Asn+(0.0017)Gly+(-0.0091)Ala+(-0.0078)Arg+(0.0111)Pro+(-0.0036)Lys;0.680,0.729,0.746,0.769,0.750,0.780,0.654,0.738,(3.5452)+(-0.0006)Gly+(-0.0114)Arg+(-0.0153)Tyr+(-0.1652)Met+(0.0313)Orn+(-0.0051)Lys;0.680,0.728,0.766,0.820,0.706,0.770,0.745,0.760,(0.7489)+(-0.0017)Gly+(0.0033)Gln+(-0.0077)Ala+(-0.0209)Arg+(-0.0569)Tyr+(0.0671)Phe;0.680,0.731,0.790,0.812,0.772,0.812,0.755,0.788,(3.9317)+(-0.0413)Asn+(0.0015)Gly+(-0.0043)Ala+(-0.1367)Met+(-0.0012)Lys+(0.0063)Leu;0.680,0.731,0.765,0.792,0.722,0.790,0.766,0.768,(5.4505)+(-0.1100)Asn+(0.0016)Gly+(-0.0031)Arg+(-0.0157)Tyr+(-0.0367)Val+(0.0541)Leu;0.680,0.725,0.746,0.749,0.706,0.817,0.773,0.761,(3.3499)+(0.0029)Thr+(-0.0114)Ala+(-0.0729)Cit+(0.0123)Pro+(-0.0230)Val+(0.0328)Leu;0.680,0.732,0.711,0.686,0.772,0.811,0.578,0.712,(2.8164)+(0.0014)Gly+(-0.0010)Thr+(-0.1145)Cit+(-0.0004)Pro+(0.0547)Orn+(-0.0222)Lys;0.680,0.728,0.794,0.824,0.777,0.814,0.737,0.788,(4.2124)+(-0.0435)Asn+(0.0015)Gly+(-0.0038)Ala+(-0.0049)Arg+(-0.1242)Met+(0.0015)Lys;0.680,0.739,0.686,0.716,0.630,0.789,0.646,0.695,(0.3352)+(0.0229)Ser+(-0.0116)Thr+(-0.0421)Tyr+(-0.0288)Val+(0.0261)Orn+(0.0348)Leu;0.68

0,0.735,0.699,0.730,0.696,0.722,0.604,0.688,(1.9878)+(0.0022)Gly+(-0.0768)Cit+(0.0051)Pro+(-0.0643)Tyr+(-0.0152)Lys+(0.0754)Phe;0.680,0.733,0.764,0.786,0.741,0.805,0.724,0.764,(3.0269)+(-0.0005)Gly+(-0.0050)Ala+(-0.0100)Tyr+(-0.1736)Met+(0.0265)Orn+(0.0024)Leu;0.680,0.727,0.770,0.779,0.789,0.772,0.708,0.762,(4.7655)+(-0.0386)Asn+(-0.0658)Cit+(0.0071)Arg+(-0.1475)Met+(-0.0026)Lys+(0.0051)Leu;0.680,0.725,0.714,0.766,0.692,0.781,0.573,0.703,(2.9720)+(0.0014)Gln+(-0.0252)Arg+(0.0076)Pro+(-0.0472)Tyr+(-0.0149)Val+(0.0330)Orn;0.680,0.734,0.709,0.757,0.652,0.717,0.692,0.705,(1.8355)+(0.0063)Pro+(-0.0628)Tyr+(-0.0242)Val+(-0.0112)Lys+(0.0224)Leu+(0.0708)Phe;0.680,0.728,0.705,0.693,0.721,0.788,0.648,0.712,(0.8520)+(0.0375)Ser+(-0.0062)Gly+(0.0009)Gln+(-0.0748)Cit+(-0.0217)Lys+(0.0032)Leu;0.680,0.732,0.760,0.779,0.763,0.756,0.705,0.751,(3.9969)+(-0.0361)Asn+(-0.0067)Arg+(0.0082)Pro+(-0.1842)Met+(0.0003)Lys+(-0.0027)Leu;0.680,0.736,0.710,0.749,0.658,0.845,0.615,0.717,(1.5177)+(0.0210)Ser+(-0.0022)Gln+(-0.0060)Ala+(-0.0323)Tyr+(-0.0085)Val+(0.0266)Orn;0.680,0.732,0.765,0.807,0.747,0.786,0.680,0.755,(3.0144)+(-0.0968)Asn+(0.0055)Gln+(-0.0154)Arg+(-0.0408)Tyr+(0.0287)Orn+(-0.0075)Lys;0.680,0.732,0.785,0.825,0.765,0.805,0.703,0.775,(3.8198)+(-0.1390)Asn+(0.0057)Gln+(0.0127)Thr+(-0.0186)Arg+(0.0069)Pro+(-0.0171)Val;0.680,0.729,0.711,0.746,0.695,0.721,0.646,0.702,(2.0483)+(-0.0019)Gly+(-0.0156)Arg+(-0.0667)Tyr+(0.0293)Orn+(-0.0158)Lys+(0.0602)Phe;0.680,0.733,0.679,0.701,
0.685,0.800,0.520,0.676,(1.0374)+(0.0252)Ser+(-0.0023)Gln+(-0.0311)Arg+(0.0058)Pro+(-0.0172)Val+(0.0241)Orn;0.680,0.732,0.723,0.763,0.719,0.733,0.616,0.708,(2.0313)+(0.0019)Gly+(-0.0735)Cit+(-0.0591)Tyr+(-0.0116)Lys+(-0.0091)Leu+(0.0862)Phe;0.680,0.740,0.727,0.725,0.653,0.800,0.832,0.752,(-2.0466)+(0.0389)Ser+(-0.0062)Gly+(-0.0189)Thr+(-0.0102)Ala+(0.0144)Orn+(0.0346)Phe;0.680,0.738,0.745,0.773,0.678,0.819,0.75

8,0.757,(0.9147)+(0.0372)Ser+(-0.0085)Gly+(-0.0001)Gln+(-0.0056)Thr+(-0.0059)Ala+(-0.0374)Tyr;0.680,0.727,0.773,0.800,0.771,0.791,0.695,0.764,(2.5966)+(-0.1319)Asn+(0.0027)Gly+(0.0066)Gln+(-0.0818)Cit+(0.0039)Pro+(-0.0088)Leu;0.680,0.733,0.716,0.755,0.707,0.714,0.634,0.702,(2.2827)+(-0.0698)Cit+(0.0065)Pro+(-0.0669)Tyr+(-0.0109)Lys+(-0.0127)Leu+(0.0847)Phe;0.680,0.738,0.755,0.788,0.736,0.770,0.701,0.748,(1.8571)+(0.0044)Gln+(0.0082)Pro+(-0.0143)Tyr+(-0.2292)Met+(-0.0052)Lys+(0.0014)Leu;0.680,0.732,0.751,0.766,0.762,0.787,0.663,0.745,(3.2439)+(-0.0001)Gly+(-0.0113)Arg+(-0.1919)Met+(0.0291)Orn+(-0.0053)Lys+(0.0001)Leu;0.680,0.733,0.785,0.821,0.764,0.852,0.684,0.780,(3.2685)+(0.0040)Gln+(0.0099)Thr+(-0.0069)Ala+(-0.0812)Cit+(-0.0271)Tyr+(-0.0107)Lys;0.680,0.723,0.775,0.792,0.747,0.831,0.750,0.780,(2.8833)+(0.0029)Gln+(-0.0109)Ala+(-0.0751)Cit+(-0.0079)Arg+(0.0127)Pro+(-0.0067)Val;0.680,0.732,0.727,0.768,0.661,0.808,0.696,0.733,(2.9331)+(-0.0001)Gln+(-0.0086)Ala+(0.0126)Pro+(-0.0406)Tyr+(-0.0116)Val+(0.0272)Orn;0.680,0.735,0.754,0.782,0.749,0.758,0.686,0.744,(5.3075)+(-0.0761)Asn+(-0.0621)Cit+(0.0011)Arg+(0.0076)Pro+(-0.0372)Tyr+(-0.0055)Leu;0.680,0.730,0.811,0.848,0.785,0.830,0.757,0.805,(2.1321)+(-0.0009)Gly+(0.0056)Gln+(-0.0038)Ala+(-0.0123)Arg+(-0.1811)Met+(-0.0013)Lys;0.680,0.725,0.721,0.768,0.637,0.740,0.756,0.726,(1.0201)+(-0.0022)Gly+(0.0009)Gln+(-0.0108)Ala+(0.0105)Pro+(-0.0640)Tyr+(0.0564)Phe;0.680,0.734,0.781,0.794,0.787,0.807,0.718,0.776,(2.9936)+(-0.1277)Asn+(0.0070)Gln+(0.0106)Thr+(-0.0827)Cit+(0.0019)Pro+(-0.0116)Lys;0.680,0.734,0.720,0.713,0.635,0.801,0.856,0.751,(0.2465)+(-0.0002)Gly+(-0.0010)Gln+(-0.0149)Ala+(0.0056)Pro+(0.0379)Ile+(0.0078)Phe;0.680,0.741,0.718,0.711,0.641,0.807,0.830,0.747,(-0.8673)+(0.0398)Ser+(-0.0066)Gly+(-0.0207)Thr+(-0.0118)Ala+(0.0115)Pro+(0.0147)Orn;0.680,0.736,0.755,0.781,0.751,0.752,0.695,0.745,(4.3424)+(-0.0387)Asn+(-0.0063)Arg+(0.0090)Pro+(-0.0179)Tyr+(-0.1

534)Met+(-0.0023)Leu;0.680,0.731,0.662,0.658,0.673,0.759,0.581,0.668,(-1.8988)+(0.0366)Ser+(-0.0107)Thr+(-0.0217)Arg+(0.0191)Orn+(-0.0221)Lys+(0.0403)Phe;0.680,0.731,0.728,0.766,0.743,0.752,0.582,0.711,(3.4663)+(-0.0010)Gly+(0.0242)Thr+(-0.0165)Arg+(-0.0150)Tyr+(-0.2449)Met+(0.0044)Leu;0.680,0.736,0.736,0.766,0.691,0.799,0.704,0.740,(1.6658)+(0.0384)Ser+(-0.0102)Gly+(0.0005)Gln+(-0.0379)Tyr+(-0.0057)Val+(-0.0122)Lys;0.680,0.733,0.833,0.877,0.793,0.855,0.785,0.828,(3.4454)+(-0.1102)Asn+(0.0065)Gln+(-0.0036)Ala+(-0.0131)Arg+(-0.0105)Val+(0.0020)Lys;0.680,0.725,0.704,0.692,0.713,0.785,0.661,0.713,(1.8306)+(-0.0008)Gly+(-0.0974)Cit+(0.0009)Pro+(-0.0305)Val+(0.0486)Orn+(0.0279)Leu;0.680,0.743,0.701,0.725,0.622,0.814,0.722,0.721,(-0.0637)+(0.0282)Ser+(-0.0153)Thr+(-0.0101)Ala+(0.0128)Pro+(-0.0379)Tyr+(0.0176)Orn;0.680,0.736,0.735,0.785,0.677,0.747,0.714,0.731,(1.3626)+(0.0014)Gln+(-0.0590)Tyr+(-0.0236)Val+(-0.0122)Lys+(0.0244)Leu+(0.0718)Phe;0.680,0.740,0.742,0.745,0.689,0.837,0.776,0.762,(0.6879)+(0.0395)Ser+(-0.0078)Gly+(-0.0002)Gln+(-0.0074)Ala+(-0.0182)Lys+(0.0068)Leu;0.680,0.729,0.720,0.711,0.637,0.805,0.854,0.752,(0.4625)+(-0.0004)Gly+(-0.0009)Gln+(-0.0147)Ala+(0.0057)Pro+(0.0018)Orn+(0.0390)Ile;0.680,0.733,0.765,0.792,0.718,0.790,0.775,0.769,(5.3872)+(-0.1151)Asn+(0.0015)Gly+(-0.0170)Tyr+(-0.0374)Val+(0.0010)Lys+(0.0546)Leu;0.680,0.730,0.669,0.693,0.631,0.701,0.663,0.672,(1.3115)+(0.0086)Thr+(-0.0007)Pro+(-0.0732)Tyr+(-0.0244)Lys+(0.0389)Ile+(0.0494)Phe;0.680,0.730,0.720,0.722,0.742,0.777,0.630,0.718,(1.3727)+(-0.0037)Thr+(-0.0883)Cit+(-0.0157)Arg+(-0.0191)Val+(0.0501)Orn+(0.0457)Phe;0.680,0.734,0.756,0.748,0.775,0.754,0.739,0.754,(3.2568)+(-0.0934)Asn+(-0.0753)Cit+(0.0059)Arg+(0.0016)Pro+(-0.0126)Lys+(0.0509)Phe;0.679,0.728,0.722,0.742,0.640,0.784,0.799,0.741,(1.6994)+(-0.0016)Gly+(-0.0002)Thr+(-0.0105)Ala+(-0.0492)Tyr+(0.0104)Orn+(0.0477)Ile;0.679,0.744,0.681,0.692,0.656,0.778,0.633,0.690,(-1.721

1)+(0.0313)Ser+(-0.0120)Thr+(-0.0141)Val+(0.0237)Orn+(-0.0195)Lys+(0.0544)Phe;0.679,0.739,0.723,0.750,0.696,0.783,0.668,0.724,(1.5811)+(0.0427)Ser+(-0.0096)Gly+(-0.0170)Arg+(-0.0410)Tyr+(-0.0117)Lys+(0.0018)Leu;0.679,0.728,0.690,0.751,0.627,0.682,0.669,0.682,(1.2299)+(-0.0003)Gln+(0.0063)Pro+(-0.0701)Tyr+(-0.0250)Val+(0.0177)Leu+(0.0687)Phe;0.679,0.733,0.756,0.782,0.753,0.763,0.687,0.746,(5.3782)+(-0.0721)Asn+(-0.0610)Cit+(0.0076)Pro+(-0.0360)Tyr+(-0.0020)Lys+(-0.0045)Leu;0.679,0.733,0.729,0.764,0.712,0.745,0.662,0.721,(4.4324)+(-0.0877)Asn+(0.0061)Pro+(-0.0437)Tyr+(0.0314)Orn+(-0.0059)Lys+(-0.0096)Leu;0.679,0.724,0.727,0.725,0.746,0.798,0.640,0.727,(2.3092)+(0.0001)Gly+(0.0003)Gln+(-0.0080)Thr+(-0.1016)Cit+(-0.0147)Val+(0.0529)Orn;0.679,0.743,0.677,0.713,0.678,0.783,0.502,0.669,(1.0837)+(0.0279)Ser+(-0.0006)Gln+(-0.0212)Arg+(-0.0399)Tyr+(0.0267)Orn+(-0.0142)Lys;0.679,0.733,0.795,0.813,0.793,0.822,0.734,0.790,(4.7778)+(-0.0043)Ala+(-0.0654)Cit+(0.0037)Arg+(-0.0018)Val+(-0.1311)Met+(0.0005)Lys;0.679,0.727,0.719,0.740,0.632,0.788,0.792,0.738,(1.3004)+(0.0003)Gln+(-0.0020)Thr+(-0.0106)Ala+(-0.0473)Tyr+(0.0095)Orn+(0.0486)Ile;0.679,0.738,0.607,0.559,0.672,0.738,0.503,0.618,(-1.1262)+(0.0291)Ser+(-0.0029)Gln+(-0.0908)Cit+(-0.0227)Arg+(0.0236)Orn+(0.0236)Ile;0.679,0.730,0.758,0.779,0.762,0.790,0.669,0.750,(5.7237)+(-0.1147)Asn+(0.0142)Thr+(-0.0535)Cit+(-0.0060)Arg+(0.0072)Pro+(-0.0141)Val;0.679,0.747,0.699,0.712,0.667,0.777,0.674,0.707,(1.1634)+(0.0396)Ser+(-0.0107)Gly+(-0.0498)Tyr+(0.0263)Orn+(-0.0190)Lys+(0.0014)Leu;0.679,0.733,0.737,0.767,0.663,0.828,0.748,0.751,(2.7205)+(-0.0004)Gln+(-0.0067)Ala+(-0.0335)Tyr+(-0.0303)Val+(0.0319)Orn+(0.0408)Leu;0.679,0.727,0.725,0.726,0.753,0.805,0.605,0.722,(2.7315)+(-0.0004)Gly+(-0.0875)Cit+(-0.0159)Arg+(0.0027)Pro+(-0.0162)Val+(0.0499)Orn;0.679,0.732,0.676,0.696,0.684,0.754,0.552,0.671,(-1.6058)+(0.0339)Ser+(-0.0269)Arg+(0.0035)Pro+(-0.0188)Lys+(-0.0138)Leu+(0.0531

)Phe;0.679,0.728,0.717,0.752,0.686,0.717,0.684,0.710,(1.3126)+(-0.003
3)Gly+(0.0019)Gln+(-0.0715)Tyr+(0.0254)Orn+(-0.0204)Lys+(0.0593)Phe;0
.679,0.723,0.683,0.685,0.697,0.794,0.570,0.687,(1.2069)+(0.0287)Ser+(
-0.0000)Gln+(-0.0740)Cit+(0.0058)Pro+(-0.0066)Val+(-0.0172)Lys;0.679,
0.736,0.732,0.760,0.690,0.796,0.702,0.737,(1.7689)+(0.0392)Ser+(-0.01
00)Gly+(-0.0006)Thr+(-0.0370)Tyr+(-0.0056)Val+(-0.0117)Lys;0.679,0.74
0,0.707,0.702,0.683,0.795,0.704,0.721,(0.7039)+(0.0367)Ser+(-0.0097)G
ly+(0.0046)Pro+(-0.0125)Val+(0.0236)Orn+(-0.0204)Lys;0.679,0.731,0.76
7,0.780,0.742,0.812,0.757,0.773,(1.0280)+(0.0018)Gln+(-0.0093)Ala+(-0
.0189)Arg+(0.0246)Orn+(-0.0153)Lys+(0.0411)Phe;0.679,0.736,0.726,0.70
6,0.781,0.814,0.601,0.726,(3.1527)+(-0.0005)Thr+(-0.1104)Cit+(-0.0018
)Arg+(0.0556)Orn+(-0.0198)Lys+(-0.0056)Leu;0.679,0.733,0.718,0.711,0.
633,0.802,0.854,0.750,(0.2259)+(-0.0011)Gln+(-0.0149)Ala+(0.0056)Pro+
(0.0010)Orn+(0.0377)Ile+(0.0078)Phe;0.679,0.728,0.784,0.819,0.752,0.8
03,0.746,0.780,(3.6788)+(-0.1494)Asn+(-0.0007)Gly+(0.0049)Gln+(0.0092
)Thr+(0.0066)Pro+(-0.0172)Val;0.679,0.726,0.712,0.769,0.697,0.698,0.6
02,0.692,(0.5396)+(0.0026)Gln+(0.0037)Thr+(-0.0800)Cit+(-0.0746)Tyr+(
-0.0164)Leu+(0.0829)Phe;0.679,0.740,0.735,0.774,0.671,0.852,0.681,0.7
45,(0.7562)+(0.0231)Ser+(-0.0105)Thr+(-0.0059)Ala+(-0.0282)Tyr+(-0.00
80)Val+(0.0280)Orn;0.679,0.735,0.766,0.790,0.755,0.809,0.694,0.762,(4
.8440)+(-0.1238)Asn+(-0.0004)Gly+(0.0091)Thr+(-0.0165)Val+(0.0345)Orn
+(-0.0037)Lys;0.679,0.731,0.651,0.692,0.642,0.743,0.498,0.644,(0.3345
)+(0.0312)Ser+(-0.0009)Gln+(-0.0057)Thr+(-0.0242)Arg+(0.0075)Pro+(-0.
0507)Tyr;0.679,0.729,0.801,0.836,0.779,0.821,0.740,0.794,(4.8925)+(-0
.0535)Asn+(0.0011)Gly+(-0.0026)Ala+(-0.0012)Tyr+(-0.0062)Val+(-0.0976
)Met;0.679,0.736,0.699,0.733,0.676,0.714,0.650,0.693,(3.6331)+(-0.094
7)Asn+(0.0155)Thr+(-0.0180)Arg+(0.0015)Pro+(-0.0586)Tyr+(0.0340)Ile;0
.679,0.731,0.731,0.726,0.649,0.803,0.865,0.761,(0.2834)+(-0.0103)Thr+

(-0.0143)Ala+(0.0062)Pro+(0.0055)Orn+(0.0380)Ile+(0.0078)Phe;0.679,0.731,0.757,0.784,0.770,0.748,0.663,0.741,(2.3506)+(-0.1152)Asn+(0.0021)Gly+(-0.0186)Arg+(0.0257)Orn+(-0.0241)Leu+(0.0581)Phe;0.679,0.734,0.728,0.771,0.696,0.802,0.631,0.725,(2.8538)+(0.0010)Gln+(-0.0235)Arg+(-0.0412)Tyr+(-0.0303)Val+(0.0360)Orn+(0.0338)Leu;0.679,0.723,0.706,0.694,0.714,0.769,0.673,0.712,(1.0647)+(-0.0080)Thr+(-0.0981)Cit+(-0.0288)Val+(0.0507)Orn+(0.0211)Leu+(0.0337)Phe;0.679,0.739,0.755,0.768,0.697,0.845,0.780,0.772,(0.7671)+(0.0397)Ser+(-0.0079)Gly+(0.0003)Gln+(-0.0050)Thr+(-0.0065)Ala+(-0.0145)Lys;0.679,0.745,0.724,0.730,0.677,0.833,0.726,0.741,(-0.0818)+(0.0306)Ser+(-0.0106)Thr+(-0.0077)Ala+(0.0248)Orn+(-0.0175)Lys+(0.0056)Leu;0.679,0.733,0.724,0.760,0.740,0.755,0.575,0.708,(3.4586)+(0.0244)Thr+(-0.0148)Arg+(-0.0134)Tyr+(-0.2402)Met+(-0.0047)Lys+(0.0069)Leu;0.679,0.733,0.692,0.681,0.698,0.767,0.653,0.700,(0.1698)+(0.0414)Ser+(-0.0086)Gly+(-0.0223)Arg+(0.0021)Pro+(0.0200)Orn+(-0.0221)Lys;0.679,0.735,0.753,0.776,0.749,0.759,0.696,0.745,(5.2407)+(-0.0725)Asn+(-0.0650)Cit+(0.0040)Arg+(0.0068)Pro+(-0.0368)Tyr+(-0.0043)Lys;0.679,0.732,0.760,0.796,0.754,0.790,0.654,0.749,(1.8853)+(0.0043)Gln+(-0.0176)Arg+(-0.0133)Tyr+(-0.2020)Met+(0.0239)Orn+(-0.0016)Leu;0.679,0.729,0.763,0.791,0.772,0.802,0.641,0.751,(5.4898)+(-0.1126)Asn+(0.0021)Gly+(0.0148)Thr+(-0.0627)Cit+(-0.0099)Val+(-0.0028)Lys;0.679,0.741,0.716,0.741,0.718,0.824,0.567,0.713,(0.7994)+(0.0278)Ser+(-0.0068)Thr+(-0.0228)Arg+(-0.0112)Val+(0.0304)Orn+(-0.0115)Lys;0.679,0.735,0.833,0.870,0.787,0.860,0.811,0.832,(3.4753)+(-0.1152)Asn+(-0.0005)Gly+(0.0058)Gln+(-0.0040)Ala+(-0.0100)Val+(-0.0006)Lys;0.679,0.733,0.718,0.754,0.735,0.764,0.558,0.703,(3.1672)+(0.0190)Thr+(-0.0190)Arg+(-0.0174)Tyr+(-0.2305)Met+(0.0206)Orn+(0.0006)Leu;0.679,0.729,0.720,0.755,0.709,0.734,0.641,0.710,(4.0613)+(-0.0844)Asn+(0.0001)Gly+(-0.0145)Arg+(0.0049)Pro+(-0.0491)Tyr+(0.0280)Orn;0.679,0.733,0.

787,0.801,0.772,0.831,0.749,0.788,(4.2745)+(-0.0758)Asn+(-0.0063)Ala+(-0.0112)Arg+(0.0331)Orn+(-0.0056)Lys+(-0.0044)Leu;0.679,0.738,0.764,0.792,0.766,0.817,0.649,0.756

,(5.1347)+(-0.1156)Asn+(0.0116)Thr+(-0.0171)Arg+(-0.0172)Val+(0.0368)Orn+(-0.0009)Lys;0.679,0.737,0.709,0.733,0.710,0.821,0.563,0.707,(0.7860)+(0.0274)Ser+(-0.0013)Gln+(-0.0099)Thr+(-0.0263)Arg+(-0.0142)Val+(0.0296)Orn;0.679,0.734,0.679,0.694,0.696,0.763,0.543,0.674,(-1.5126)+(0.0319)Ser+(-0.0277)Arg+(0.0181)Orn+(-0.0202)Lys+(-0.0136)Leu+(0.0516)Phe;0.679,0.729,0.724,0.752,0.709,0.735,0.676,0.718,(4.2386)+(-0.0825)Asn+(-0.0005)Gly+(0.0048)Pro+(-0.0461)Tyr+(0.0299)Orn+(-0.0092)Lys;0.679,0.748,0.708,0.736,0.660,0.831,0.649,0.719,(0.7342)+(0.0257)Ser+(-0.0068)Ala+(-0.0305)Tyr+(0.0242)Orn+(-0.0176)Lys+(0.0069)Leu;0.679,0.731,0.740,0.768,0.737,0.753,0.666,0.731,(3.5241)+(0.0007)Gly+(-0.0088)Arg+(0.0091)Pro+(-0.0143)Tyr+(-0.1993)Met+(-0.0009)Lys;0.679,0.729,0.716,0.761,0.635,0.737,0.749,0.720,(1.2472)+(-0.0022)Gly+(0.0033)Thr+(-0.0108)Ala+(0.0105)Pro+(-0.0656)Tyr+(0.0576)Phe;0.679,0.720,0.697,0.705,0.714,0.739,0.613,0.693,(-1.0362)+(0.0347)Ser+(-0.0053)Gly+(-0.0627)Cit+(-0.0246)Arg+(-0.0195)Leu+(0.0492)Phe;0.679,0.728,0.707,0.737,0.678,0.716,0.684,0.704,(3.2799)+(-0.0811)Asn+(0.0017)Gly+(-0.0123)Arg+(0.0020)Pro+(-0.0499)Tyr+(0.0353)Ile;0.679,0.721,0.688,0.702,0.687,0.740,0.614,0.686,(-1.2719)+(0.0322)Ser+(-0.0099)Thr+(-0.0593)Cit+(-0.0189)Arg+(-0.0141)Val+(0.0610)Phe;0.679,0.732,0.767,0.812,0.747,0.790,0.676,0.756,(5.5821)+(-0.1105)Asn+(-0.0010)Gly+(0.0172)Thr+(-0.0300)Tyr+(-0.0111)Val+(-0.0006)Lys;0.679,0.729,0.815,0.860,0.770,0.829,0.782,0.810,(3.0973)+(-0.0934)Asn+(-0.0009)Gly+(0.0066)Gln+(-0.0048)Ala+(-0.0125)Arg+(-0.0275)Tyr;0.679,0.735,0.784,0.802,0.789,0.809,0.710,0.777,(3.0498)+(-0.1268)Asn+(0.0072)Gln+(0.0116)Thr+(-0.0802)Cit+(-0.0033)Arg+(-0.0108)Lys;0.679,0.731,0.753,0.788,0.743,0.771,0.668,

0.742,(3.9334)+(0.0007)Gly+(-0.0110)Arg+(0.0116)Pro+(-0.0114)Val+(-0.2092)Met+(0.0052)Lys;0.679,0.725,0.774,0.802,0.775,0.790,0.684,0.763,(2.7227)+(-0.1423)Asn+(0.0021)Gly+(0.0065)Gln+(0.0072)Thr+(-0.0820)Cit+(-0.0070)Leu;0.678,0.728,0.724,0.727,0.752,0.806,0.599,0.721,(2.4948)+(0.0005)Gln+(-0.0879)Cit+(-0.0166)Arg+(0.0026)Pro+(-0.0161)Val+(0.0490)Orn;0.678,0.730,0.755,0.785,0.741,0.787,0.681,0.749,(1.8507)+(0.0037)Gln+(-0.0128)Tyr+(-0.2052)Met+(0.0232)Orn+(-0.0089)Lys+(0.0033)Leu;0.678,0.728,0.705,0.764,0.637,0.681,0.706,0.697,(1.6499)+(-0.0027)Gly+(0.0065)Pro+(-0.0715)Tyr+(-0.0248)Val+(0.0175)Leu+(0.0683)Phe;0.678,0.726,0.736,0.762,0.684,0.796,0.731,0.743,(3.5519)+(-0.0024)Gly+(-0.0091)Ala+(0.0110)Pro+(-0.0413)Tyr+(0.0282)Orn+(-0.0120)Lys;0.678,0.739,0.714,0.758,0.687,0.798,0.595,0.709,(3.1222)+(0.0064)Thr+(-0.0253)Arg+(-0.0439)Tyr+(-0.0314)Val+(0.0349)Orn+(0.0356)Leu;0.678,0.729,0.686,0.725,0.658,0.703,0.632,0.679,(1.0356)+(0.0009)Gln+(0.0028)Pro+(-0.0714)Tyr+(0.0226)Orn+(-0.0207)Lys+(0.0592)Phe;0.678,0.734,0.803,0.822,0.770,0.844,0.790,0.807,(2.9056)+(-0.1037)Asn+(0.0044)Gln+(-0.0066)Ala+(0.0263)Orn+(-0.0089)Lys+(-0.0031)Leu;0.678,0.728,0.717,0.773,0.667,0.699,0.687,0.707,(1.9993)+(-0.0020)Gly+(0.0072)Pro+(-0.0677)Tyr+(-0.0143)Val+(-0.0090)Lys+(0.0789)Phe;0.678,0.727,0.710,0.748,0.649,0.749,0.706,0.713,(3.0456)+(-0.0046)Gly+(0.0062)Pro+(-0.0559)Tyr+(-0.0307)Val+(0.0309)Orn+(0.0312)Leu;0.678,0.735,0.752,0.755,0.698,0.844,0.793,0.773,(2.6475)+(0.0004)Gln+(-0.0074)Ala+(-0.0319)Val+(0.0340)Orn+(-0.0148)Lys+(0.0474)Leu;0.678,0.731,0.704,0.756,0.688,0.773,0.553,0.692,(3.3948)+(0.0039)Thr+(-0.0255)Arg+(0.0077)Pro+(-0.0482)Tyr+(-0.0151)Val+(0.0332)Orn;0.678,0.731,0.773,0.810,0.767,0.800,0.671,0.762,(5.5734)+(-0.0850)Asn+(0.0026)Gly+(-0.0581)Cit+(-0.0181)Tyr+(-0.0077)Val+(0.0019)Lys;0.678,0.729,0.735,0.739,0.761,0.810,0.618,0.732,(2.5634)+(-0.0008)Gly+(0.0008)Gln+(-0.0889)Cit+(-0.0162)Arg+(-0.0154)Val+(0

.0504)Orn;0.678,0.732,0.709,0.770,0.658,0.706,0.658,0.698,(1.9284)+(-0.0204)Arg+(0.0076)Pro+(-0.0646)Tyr+(-0.0250)Val+(0.0181)Leu+(0.0745)Phe;0.678,0.732,0.680,0.702,0.660,0.717,0.634,0.679,(1.3826)+(0.0001)Gly+(0.0020)Gln+(0.0012)Thr+(-0.0839)Cit+(-0.0656)Tyr+(0.0388)Ile;0.678,0.735,0.725,0.706,0.778,0.822,0.596,0.726,(2.4095)+(0.0004)Gly+(0.0018)Gln+(-0.1148)Cit+(0.0535)Orn+(-0.0220)Lys+(-0.0048)Leu;0.678,0.733,0.713,0.724,0.644,0.836,0.737,0.735,(0.7508)+(0.0311)Ser+(-0.0020)Gln+(-0.0139)Thr+(-0.0099)Ala+(0.0144)Pro+(-0.0090)Val;0.678,0.729,0.790,0.812,0.745,0.832,0.794,0.796,(2.9504)+(-0.1197)Asn+(0.0040)Gln+(0.0056)Thr+(-0.0090)Ala+(0.0098)Pro+(-0.0071)Leu;0.678,0.729,0.744,0.767,0.749,0.781,0.647,0.736,(3.4368)+(-0.0115)Arg+(-0.0144)Tyr+(-0.1682)Met+(0.0308)Orn+(-0.0051)Lys+(0.0003)Leu;0.678,0.728,0.725,0.757,0.725,0.755,0.623,0.715,(2.7733)+(-0.0018)Gly+(0.0157)Thr+(-0.0187)Tyr+(-0.2434)Met+(0.0179)Orn+(0.0007)Leu;0.678,0.735,0.664,0.713,0.657,0.768,0.474,0.653,(0.8912)+(0.0278)Ser+(-0.0006)Gln+(-0.0269)Arg+(0.0083)Pro+(-0.0500)Tyr+(-0.0079)Leu;0.678,0.744,0.703,0.707,0.667,0.826,0.677,0.719,(0.5040)+(0.0292)Ser+(-0.0018)Gln+(-0.0081)Ala+(0.0222)Orn+(-0.0196)Lys+(0.0059)Leu;0.678,0.730,0.694,0.719,0.658,0.717,0.688,0.695,(1.7548)+(-0.0002)Gly+(-0.0125)Arg+(-0.0649)Tyr+(-0.0178)Lys+(0.0377)Ile+(0.0479)Phe;0.678,0.732,0.811,0.851,0.775,0.839,0.757,0.806,(2.2278)+(0.0047)Gln+(-0.0031)Ala+(0.0000)Tyr+(-0.0050)Val+(-0.1854)Met+(-0.0008)Lys;0.678,0.731,0.814,0.854,0.777,0.834,0.770,0.809,(2.3232)+(-0.0013)Gly+(0.0049)Gln+(-0.0031)Ala+(-0.0016)Tyr+(-0.0053)Val+(-0.1836)Met;0.678,0.733,0.710,0.685,0.771,0.812,0.577,0.711,(2.7997)+(0.0014)Gly+(-0.0010)Thr+(-0.1141)Cit+(-0.0004)Arg+(0.0544)Orn+(-0.0222)Lys;0.678,0.733,0.737,0.782,0.682,0.739,0.728,0.733,(2.1095)+(-0.0015)Gly+(-0.0585)Tyr+(-0.0240)Val+(-0.0104)Lys+(0.0250)Leu+(0.0728)Phe;0.678,0.729,0.788,0.812,0.793,0.794,0.709,0.777,(5.5583)+(-0.0526)

Asn+(-0.0531)Cit+(-0.0042)Tyr+(-0.0068)Val+(-0.1075)Met+(0.0045)Lys;0
.678,0.728,0.757,0.775,0.707,0.847,0.750,0.770,(2.5016)+(0.0007)Gln+(
-0.0075)Ala+(-0.0222)Arg+(-0.0324)Val+(0.0341)Orn+(0.0407)Leu;0.678,0
.728,0.768,0.783,0.782,0.767,0.699,0.758,(4.8586)+(-0.0419)Asn+(-0.06
43)Cit+(0.0058)Arg+(-0.0086)Tyr+(-0.1353)Met+(0.0040)Leu;0.678,0.726,
0.699,0.764,0.642,0.665,0.671,0.686,(1.4764)+(-0.0035)Gly+(0.0055)Thr
+(0.0067)Pro+(-0.0780)Tyr+(-0.0172)Val+(0.0766)Phe;0.678,0.725,0.723,
0.761,0.677,0.793,0.667,0.725,(2.9965)+(0.0037)Thr+(-0.0097)Ala+(-0.0
221)Arg+(0.0113)Pro+(-0.0452)Tyr+(0.0240)Orn;0.678,0.734,0.685,0.691,
0.630,0.831,0.678,0.707,(1.1285)+(0.0235)Ser+(-0.0037)Gln+(-0.0104)Al
a+(0.0121)Pro+(-0.0125)Val+(0.0191)Orn;0.678,0.730,0.809,0.844,0.772,
0.832,0.774,0.806,(2.1242)+(-0.0011)Gly+(0.0050)Gln+(-0.0039)Ala+(-0.
0037)Tyr+(-0.1821)Met+(-0.0034)Lys;0.678,0.741,0.697,0.698,0.611,0.79
0,0.802,0.726,(-2.4244)+(0.0334)Ser+(-0.0233)Thr+(-0.0129)Ala+(0.0106
)Pro+(0.0103)Orn+(0.0327)Phe;0.678,0.737,0.709,0.738,0.626,0.823,0.72
0,0.727,(0.2741)+(0.0286)Ser+(-0.0122)Thr+(-0.0097)Ala+(0.0139)Pro+(-
0.0350)Tyr+(-0.0018)Leu;0.678,0.735,0.702,0.725,0.694,0.811,0.577,0.7
02,(0.2478)+(0.0275)Ser+(-0.0124)Thr+(-0.0279)Arg+(0.0061)Pro+(-0.016
0)Val+(0.0255)Orn;0.678,0.731,0.713,0.772,0.651,0.697,0.698,0.705,(1.
4914)+(-0.0034)Gly+(0.0073)Thr+(-0.0730)Tyr+(-0.0257)Val+(0.0207)Leu+
(0.0725)Phe;0.678,0.730,0.761,0.784,0.717,0.805,0.760,0.766,(1.1733)+
(0.0001)Gln+(-0.0079)Ala+(-0.0130)Val+(0.0292)Orn+(-0.0137)Lys+(0.055
8)Phe;0.678,0.726,0.743,0.764,0.740,0.773,0.674,0.738,(3.2432)+(-0.00
08)Gly+(-0.0152)Tyr+(-0.1779)Met+(0.0288)Orn+(-0.0074)Lys+(0.0019)Leu
;0.678,0.730,0.717,0.766,0.682,0.719,0.655,0.706,(0.8758)+(0.0029)Gln
+(-0.0179)Arg+(0.0043)Pro+(-0.0684)Tyr+(-0.0141)Lys+(0.0625)Phe;0.678
,0.729,0.776,0.792,0.739,0.826,0.772,0.782,(4.3243)+(-0.0930)Asn+(0.0
094)Thr+(-0.0092)Ala+(0.0105)Pro+(-0.0063)Lys+(-0.0032)Leu;0.678,0.73

2,0.674,0.685,0.608,0.785,0.706,0.696,(-0.9954)+(0.0280)Ser+(-0.0041)Gln+(-0.0128)Ala+(0.0107)Pro+(-0.0133)Leu+(0.0479)Phe;0.678,0.729,0.759,0.791,0.725,0.803,0.714,0.758,(1.2866)+(0.0026)Thr+(-0.0080)Ala+(-0.0259)Arg+(-0.0168)Val+(0.0304)Orn+(0.0582)Phe;0.678,0.725,0.715,0.721,0.685,0.792,0.704,0.726,(1.1179)+(0.0372)Ser+(-0.0081)Gly+(-0.0009)Gln+(-0.0259)Arg+(-0.0314)Val+(0.0355)Leu;0.678,0.730,0.699,0.762,0.638,0.699,0.660,0.690,(1.0879)+(-0.0005)Gln+(0.0049)Thr+(-0.0693)Tyr+(-0.0258)Val+(0.0210)Leu+(0.0727)Phe;0.678,0.730,0.763,0.783,0.722,0.803,0.769,0.769,(1.4372)+(-0.0013)Gly+(-0.0078)Ala+(-0.0131)Val+(0.0300)Orn+(-0.0135)Lys+(0.0551)Phe;0.678,0.733,0.746,0.746,0.709,0.799,0.784,0.759,(1.1700)+(0.0004)Gln+(-0.0117)Ala+(0.0079)Pro+(0.0190)Orn+(-0.0190)Lys+(0.0361)Phe;0.678,0.730,0.733,0.772,0.726,0.729,0.643,0.718,(2.3370)+(-0.0688)Cit+(-0.0008)Arg+(-0.0601)Tyr+(-0.0107)Lys+(-0.0097)Leu+(0.0854)Phe;0.678,0.719,0.720,0.738,0.693,0.782,0.684,0.724,(0.8671)+(0.0398)Ser+(-0.0082)Gly+(-0.0087)Thr+(-0.0255)Arg+(0.0074)Pro+(-0.0146)Val;0.677,0.732,0.740,0.771,0.734,0.758,0.659,0.731,(4.4341)+(-0.0742)Asn+(-0.0003)Gly+(-0.0111)Arg+(-0.0400)Tyr+(0.0341)Orn+(-0.0069)Lys;0.677,0.729,0.744,0.752,0.708,0.791,0.766,0.754,(1.2622)+(-0.0112)Ala+(0.0086)Pro+(0.0207)Orn+(-0.0168)Lys+(-0.0093)Leu+(0.0436)Phe;0.677,0.734,0.669,0.706,0.661,0.777,0.512,0.664,(0.7445)+(0.0311)Ser+(-0.0021)Thr+(-0.0202)Arg+(0.0075)Pro+(-0.0427)Tyr+(-0.0116)Lys;0.677,0.732,0.795,0.813,0.763,0.842,0.781,0.800,(2.9092)+(-0.1105)Asn+(0.0041)Gln+(0.0064)Thr+(-0.0070)Ala+(0.0231)Orn+(-0.0106)Lys;0.677,0.730,0.669,0.690,0.623,0.707,0.684,0.676,(0.3196)+(0.0425)Ser+(-0.0096)Gly+(-0.0012)Gln+(-0.0104)Thr+(0.0072)Pro+(-0.0611)Tyr;0.677,0.727,0.756,0.801,0.720,0.762,0.705,0.747,(5.2989)+(-0.0987)Asn+(0.0005)Gly+(0.0102)Pro+(-0.0311)Tyr+(-0.0140)Val+(0.0033)Lys;0.677,0.730,0.817,0.866,0.781,0.826,0.758,0.808,(3.7283)+(-0.1058)Asn+(-0.0013)Gly+(0

.0072)Gln+(-0.0129)Arg+(-0.0241)Tyr+(-0.0104)Val;0.677,0.728,0.726,0.765,0.677,0.724,0.724,0.723,(2.1934)+(-0.1273)Asn+(-0.0006)Gly+(0.0042)Gln+(0.0091)Thr+(-0.0583)Tyr+(0.0314)Ile;0.677,0.715,0.693,0.694,0.680,0.729,0.690,0.698,(-1.1805)+(0.0367)Ser+(-0.0047)Gly+(-0.0153)Thr+(-0.0685)Cit+(-0.0134)Val+(0.0519)Phe;0.677,0.735,0.679,0.649,0.729,0.769,0.588,0.684,(-0.6007)+(0.0301)Ser+(-0.0052)Gly+(-0.0883)Cit+(-0.0231)Arg+(-0.0016)Pro+(0.0290)Orn;0.677,0.731,0.770,0.796,0.725,0.785,0.785,0.773,(5.6398)+(-0.1084)Asn+(-0.0037)Arg+(-0.0179)Tyr+(-0.0367)Val+(0.0020)Lys+(0.0528)Leu;0.677,0.728,0.749,0.765,0.775,0.777,0.636,0.738,(3.8951)+(0.0030)Gly+(-0.0676)Cit+(-0.0018)Tyr+(-0.1812)Met+(-0.0032)Lys+(0.0078)Leu;0.677,0.728,0.642,0.627,0.625,0.783,0.619,0.663,(0.9583)+(0.0328)Ser+(-0.

0031)Gln+(0.0049)Pro+(-0.0320)Val+(-0.0202)Lys+(0.0461)Leu;0.677,0.736,0.714,0.726,0.638,0.788,0.785,0.734,(-1.5183)+(0.0312)Ser+(-0.0073)Gly+(-0.0128)Ala+(0.0101)Pro+(-0.0145)Leu+(0.0396)Phe;0.677,0.726,0.708,0.760,0.698,0.693,0.603,0.689,(1.9108)+(-0.0629)Cit+(-0.0100)Arg+(0.0070)Pro+(-0.0715)Tyr+(-0.0188)Leu+(0.0835)Phe;0.677,0.721,0.717,0.714,0.734,0.795,0.635,0.720,(2.3110)+(0.0003)Gly+(-0.0086)Thr+(-0.1002)Cit+(0.0028)Pro+(-0.0155)Val+(0.0518)Orn;0.677,0.728,0.706,0.750,0.626,0.745,0.726,0.712,(0.7869)+(-0.0016)Thr+(-0.0110)Ala+(0.0099)Pro+(-0.0629)Tyr+(0.0138)Orn+(0.0533)Phe;0.677,0.727,0.791,0.822,0.770,0.808,0.741,0.785,(4.2463)+(-0.0469)Asn+(0.0012)Gly+(-0.0038)Ala+(-0.0048)Tyr+(-0.1183)Met+(0.0008)Lys;0.677,0.730,0.772,0.787,0.788,0.771,0.697,0.761,(4.9911)+(-0.0377)Asn+(-0.0596)Cit+(-0.0081)Tyr+(-0.1292)Met+(-0.0007)Lys+(0.0041)Leu;0.677,0.733,0.797,0.815,0.797,0.823,0.732,0.792,(4.8074)+(-0.0042)Ala+(-0.0623)Cit+(0.0023)Tyr+(-0.0023)Val+(-0.1330)Met+(0.0014)Lys;0.677,0.726,0.752,0.778,0.748,0.789,0.665,0.745,(5.1903)+(-0.1029)Asn+(0.0035)Gly+(-0.0603)Cit+(0.0082)Pro+(-0.0126

)Val+(0.0009)Lys;0.677,0.731,0.782,0.795,0.759,0.830,0.764,0.787,(4.0331)+(-0.0843)Asn+(0.0004)Gly+(-0.0065)Ala+(0.0305)Orn+(-0.0077)Lys+(-0.0030)Leu;0.677,0.727,0.794,0.825,0.776,0.813,0.737,0.788,(4.3863)+(-0.0433)Asn+(0.0013)Gly+(-0.0037)Ala+(-0.0041)Arg+(-0.0042)Tyr+(-0.1126)Met;0.677,0.727,0.640,0.629,0.667,0.749,0.531,0.644,(-1.2365)+(0.0362)Ser+(-0.0022)Gln+(-0.0237)Arg+(0.0173)Orn+(-0.0242)Lys+(0.0418)Phe;0.677,0.737,0.734,0.773,0.702,0.781,0.662,0.730,(1.2616)+(0.0386)Ser+(-0.0100)Gly+(0.0011)Gln+(-0.0246)Arg+(-0.0492)Tyr+(-0.0050)Leu;0.677,0.732,0.739,0.765,0.732,0.750,0.678,0.731,(3.3150)+(0.0004)Gly+(0.0089)Pro+(-0.0145)Tyr+(-0.2070)Met+(-0.0029)Lys+(0.0008)Leu;0.677,0.730,0.768,0.780,0.736,0.819,0.764,0.775,(3.8800)+(-0.1033)Asn+(0.0036)Thr+(-0.0093)Ala+(0.0098)Pro+(0.0221)Orn+(-0.0096)Leu;0.677,0.728,0.786,0.796,0.771,0.851,0.743,0.790,(2.6793)+(0.0039)Gln+(0.0075)Thr+(-0.0093)Ala+(-0.0888)Cit+(-0.0150)Lys+(0.0095)Leu;0.677,0.725,0.753,0.757,0.713,0.817,0.778,0.766,(3.6917)+(-0.0109)Ala+(-0.0657)Cit+(-0.0055)Arg+(0.0128)Pro+(-0.0233)Val+(0.0335)Leu;0.677,0.730,0.806,0.847,0.779,0.830,0.739,0.799,(2.0983)+(0.0054)Gln+(-0.0038)Ala+(-0.0124)Arg+(-0.0025)Tyr+(-0.1783)Met+(-0.0011)Lys;0.677,0.726,0.699,0.726,0.664,0.706,0.694,0.698,(3.0153)+(-0.0975)Asn+(0.0006)Gly+(0.0013)Pro+(-0.0557)Tyr+(0.0168)Orn+(0.0291)Ile;0.677,0.730,0.757,0.755,0.751,0.786,0.754,0.761,(1.7387)+(-0.1033)Asn+(0.0050)Gln+(-0.0156)Arg+(0.0152)Orn+(-0.0162)Lys+(0.0280)Ile;0.677,0.725,0.755,0.771,0.715,0.771,0.781,0.760,(5.4063)+(-0.1224)Asn+(-0.0059)Arg+(0.0075)Pro+(-0.0405)Val+(0.0015)Lys+(0.0510)Leu;0.677,0.718,0.716,0.734,0.695,0.783,0.661,0.718,(1.1470)+(0.0366)Ser+(-0.0084)Gly+(-0.0005)Gln+(-0.0290)Arg+(0.0067)Pro+(-0.0157)Val;0.677,0.729,0.798,0.831,0.760,0.818,0.772,0.795,(1.7334)+(-0.0007)Gly+(0.0046)Gln+(-0.0046)Ala+(-0.0044)Tyr+(-0.2038)Met+(0.0063)Leu;0.677,0.723,0.762,0.775,0.718,0.802,0.787,0.771,(1.2162)+(

0.0018)Gln+(-0.0096)Ala+(-0.0749)Cit+(-0.0203)Val+(0.0241)Leu+(0.0512)Phe;0.677,0.732,0.813,0.867,0.776,0.827,0.741,0.803,(3.6056)+(-0.1122)Asn+(0.0069)Gln+(-0.0143)Arg+(-0.0239)Tyr+(-0.0112)Val+(0.0032)Lys;0.677,0.732,0.787,0.817,0.794,0.767,0.713,0.772,(1.3561)+(-0.1316)Asn+(0.0050)Gln+(-0.0217)Arg+(0.0218)Orn+(-0.0241)Leu+(0.0542)Phe;0.677,0.723,0.692,0.728,0.667,0.696,0.643,0.683,(1.8049)+(-0.0034)Gly+(0.0085)Thr+(-0.0759)Tyr+(0.0244)Orn+(-0.0218)Lys+(0.0631)Phe;0.677,0.736,0.727,0.761,0.699,0.777,0.656,0.723,(1.4479)+(0.0400)Ser+(-0.0097)Gly+(-0.0009)Thr+(-0.0229)Arg+(-0.0478)Tyr+(-0.0042)Leu;0.677,0.729,0.744,0.767,0.745,0.757,0.669,0.735,(3.2658)+(0.0011)Gly+(-0.0090)Arg+(0.0085)Pro+(-0.2205)Met+(-0.0013)Lys+(-0.0004)Leu;0.677,0.728,0.758,0.779,0.764,0.773,0.679,0.749,(2.2135)+(-0.1469)Asn+(0.0029)Gly+(0.0062)Gln+(0.0056)Thr+(-0.0863)Cit+(0.0017)Pro;0.677,0.734,0.729,0.709,0.780,0.822,0.605,0.729,(2.4433)+(0.0019)Gln+(-0.1144)Cit+(-0.0003)Pro+(0.0536)Orn+(-0.0220)Lys+(-0.0048)Leu;0.677,0.732,0.801,0.837,0.772,0.820,0.752,0.795,(1.8511)+(0.0053)Gln+(-0.0043)Ala+(-0.0126)Arg+(-0.0032)Tyr+(-0.1919)Met+(0.0062)Leu;0.677,0.731,0.710,0.739,0.703,0.719,0.642,0.701,(2.3282)+(-0.0725)Cit+(0.0006)Arg+(0.0051)Pro+(-0.0655)Tyr+(-0.0147)Lys+(0.0738)Phe;0.677,0.737,0.722,0.749,0.695,0.801,0.648,0.723,(3.4931)+(-0.0172)Arg+(-0.0356)Tyr+(-0.0303)Val+(0.0398)Orn+(-0.0094)Lys+(0.0389)Leu;0.677,0.729,0.704,0.762,0.707,0.694,0.551,0.679,(1.6986)+(0.0114)Thr+(-0.0637)Cit+(-0.0149)Arg+(-0.0734)Tyr+(-0.0168)Leu+(0.0870)Phe;0.677,0.727,0.774,0.790,0.787,0.776,0.702,0.764,(5.0732)+(-0.0436)Asn+(-0.0631)Cit+(0.0058)Arg+(-0.0077)Tyr+(-0.1229)Met+(-0.0004)Lys;0.677,0.726,0.640,0.636,0.658,0.744,0.539,0.644,(-1.3830)+(0.0375)Ser+(-0.0019)Gln+(-0.0231)Arg+(0.0024)Pro+(-0.0227)Lys+(0.0436)Phe;0.677,0.730,0.803,0.838,0.782,0.825,0.735,0.795,(4.9476)+(-0.0510)Asn+(0.0012)Gly+(-0.0026)Ala+(-0.0034)Arg+(-0.0062)Val+(-0.0962)Me

t;0.677,0.739,0.662,0.672,0.648,0.759,0.596,0.669,(-1.5713)+(0.0274)Ser+(0.0028)Pro+(-0.0156)Val+(0.0187)Orn+(-0.0235)Lys+(0.0522)Phe;0.677,0.734,0.786,0.805,0.790,0.811,0.712,0.780,(3.1347)+(-0.1280)Asn+(0.0071)Gln+(0.0111)Thr+(-0.0814)Cit+(-0.0103)Lys+(-0.0024)Leu;0.677,0.728,0.742,0.807,0.673,0.753,0.707,0.735,(0.5551)+(0.0008)Gln+(0.0036)Thr+(-0.0074)Ala+(-0.0612)Tyr+(-0.0123)Leu+(0.0774)Phe;0.677,0.734,0.748,0.786,0.742,0.765,0.651,0.736,(4.6515)+(-0.0802)Asn+(-0.0004)Gly+(-0.0140)Arg+(-0.0387)Tyr+(0.0355)Orn+(-0.0099)Leu;0.677,0.733,0.758,0.806,0.734,0.768,0.674,0.745,(3.1576)+(-0.1281)Asn+(0.0042)Gln+(0.0072)Thr+(-0.0443)Tyr+(0.0234)Orn+(-0.0100)Leu;0.677,0.730,0.788,0.814,0.769,0.806,0.749,0.784,(3.9974)+(-0.0434)Asn+(0.0014)Gly+(-0.0042)Ala+(-0.0049)Tyr+(-0.1299)Met+(0.0057)Leu;0.677,0.729,0.767,0.812,0.744,0.768,0.692,0.754,(2.8607)+(-0.1032)Asn+(-0.0013)Gly+(0.0057)Gln+(-0.0183)Arg+(-0.0462)Tyr+(0.0255)Orn;0.677,0.732,0.753,0.789,0.739,0.765,0.676,0.742,(4.1732)+(-0.0108)Arg+(0.0120)Pro+(-0.0103)Tyr+(-0.0111)Val+(-0.1933)Met+(0.0055)Lys;0.677,0.727,0.766,0.791,0.782,0.795,0.650,0.754,(4.2666)+(0.0022)Gly+(-0.0625)Cit+(0.0015)Arg+(-0.0043)Val+(-0.1671)Met+(0.0012)Lys;0.677,0.737,0.743,0.770,0.675,0.817,0.762,0.756,(0.7819)+(0.0373)Ser+(-0.0085)Gly+(-0.0059)Thr+(-0.0061)Ala+(-0.0382)Tyr+(0.0017)Leu;0.677,0.730,0.792,0.817,0.768,0.839,0.746,0.792,(2.8511)+(0.0050)Gln+(-0.0076)Ala+(-0.0824)Cit+(-0.0240)Tyr+(-0.0110)Lys+(0.0097)Leu;0.677,0.742,0.684,0.720,0.681,0.787,0.519,0.677,(0.8499)+(0.0283)Ser+(-0.0034)Thr+(-0.0206)Arg+(-0.0385)Tyr+(0.0271)Orn+(-0.0138)Lys;0.677,0.733,0.778,0.793,0.766,0.831,0.723,0.778,(4.1913)+(-0.0858)Asn+(0.0099)Thr+(-0.0069)Ala+(-0.0129)Arg+(0.0281)Orn+(-0.0082)Lys;0.677,0.728,0.808,0.840,0.775,0.834,0.774,0.806,(2.7414)+(-0.1167)Asn+(-0.0004)Gly+(0.0054)Gln+(0.0109)Thr+(-0.0068)Ala+(-0.0167)Arg;0.677,0.728,0.808,0.847,0.779,0.824,0.750,0.800,(2.1435)+(-0.0010)Gly+(

0.0056)Gln+(-0.0038)Ala+(-0.0129)Arg+(-0.0040)Tyr+(-0.1782)Met;0.677,0.726,0.683,0.725,0.661,0.703,0.606,0.674,(1.0230)+(0.0007)Gln+(0.0053)Thr+(-0.0723)Tyr+(0.0222)Orn+(-0.0220)Lys+(0.0627)Phe;0.677,0.732,0.665,0.683,0.653,0.705,0.610,0.663,(1.9494)+(0.0008)Gly+(0.0028)Thr+(-0.0814)Cit+(0.0005)Pro+(-0.0645)Tyr+(0.0395)Ile;0.677,0.730,0.804,0.837,0.781,0.819,0.755,0.798,(4.9357)+(-0.0575)Asn+(-0.0025)Ala+(-0.0032)Tyr+(-0.0076)Val+(-0.1035)Met+(0.0047)Lys;0.677,0.724,0.695,0.712,0.673,0.744,0.657,0.697,(1.9015)+(0.0023)Gln+(-0.0178)Arg+(-0.0537)Tyr+(0.0203)Orn+(-0.0189)Lys+(0.0403)Ile;0.677,0.723,0.777,0.799,0.776,0.785,0.711,0.768,(2.8532)+(-0.1394)Asn+(0.0066)Gln+(0.0067)Thr+(-0.0794)Cit+(0.0030)Pro+(-0.0098)Leu;0.677,0.727,0.734,0.773,0.680,0.727,0.749,0.732,(2.0047)+(-0.1152)Asn+(0.0000)Gly+(0.0046)Gln+(0.0009)Pro+(-0.0542)Tyr+(0.0317)Ile;0.677,0.730,0.814,0.860,0.768,0.833,0.771,0.808,(3.0850)+(-0.0925)Asn+(0.0065)Gln+(-0.0047)Ala+(-0.0116)Arg+(-0.0256)Tyr+(-0.0021)Lys;0.677,0.739,0.680,0.729,0.684,0.787,0.466,0.666,(1.0097)+(0.0249)Ser+(-0.0009)Gln+(-0.0278)Arg+(-0.0468)Tyr+(0.0240)Orn+(-0.0075)Leu;0.677,0.736,0.674,0.698,0.659,0.687,0.631,0.669,(1.3518)+(-0.0726)Cit+(-0.0091)Arg+(0.0012)Pro+(-0.0746)Tyr+(0.0304)Ile+(0.0463)Phe;0.677,0.733,0.734,0.742,0.676,0.851,0.749,0.755,(1.1206)+(0.0307)Ser+(-0.0074)Gly+(-0.0022)Gln+(-0.0074)Ala+(-0.0111)Val+(0.0231)Orn;0.677,0.732,0.720,0.693,0.778,0.814,0.603,0.722,(3.0030)+(-0.0002)Thr+(-0.1125)Cit+(-0.0004)Arg+(-0.0006)Pro+(0.0548)Orn+(-0.0222)Lys;0.677,0.732,0.683,0.704,0.664,0.719,0.640,0.682,(1.3671)+(0.0002)Gly+(0.0021)Gln+(-0.0837)Cit+(0.0003)Pro+(-0.0649)Tyr+(0.0386)Ile;0.677,0.725,0.780,0.797,0.738,0.831,0.782,0.787,(4.1437)+(-0.0827)Asn+(0.0013)Gly+(-0.0090)Ala+(0.0113)Pro+(-0.0043)Lys+(-0.0032)Leu;0.677,0.734,0.624,0.690,0.579,0.653,0.522,0.611,(-1.9050)+(0.0212)Ser+(0.0055)Pro+(-0.0844)Tyr+(0.0086)Orn+(-0.0225)Leu+(0.0771)Phe;0.677,0.732,0.73

1,0.715,0.781,0.824,0.603,0.731,(2.4549)+(0.0021)Gln+(-0.1108)Cit+(-0.0040)Arg+(0.0531)Orn+(-0.0209)Lys+(-0.0055)Leu;0.677,0.726,0.681,0.722,0.629,0.745,0.638,0.683,(2.7103)+(-0.0014)Gln+(0.0061)Pro+(-0.0520)Tyr+(-0.0311)Val+(0.0291)Orn+(0.0327)Leu;0.677,0.726,0.718,0.757,0.672,0.720,0.707,0.714,(2.1471)+(-0.1272)Asn+(0.0038)Gln+(0.0074)Thr+(-0.0585)Tyr+(0.0100)Orn+(0.0289)Ile;0.676,0.730,0.759,0.767,0.739,0.808,0.743,0.764,(1.5495)+(0.0032)Thr+(-0.0094)Ala+(-0.0182)Arg+(0.0250)Orn+(-0.0153)Lys+(0.0426)Phe;0.676,0.727,0.812,0.856,0.758,0.828,0.797,0.810,(3.0971)+(-0.1026)Asn+(-0.0010)Gly+(0.0058)Gln+(-0.0050)Ala+(-0.0286)Tyr+(-0.0010)Leu;0.676,0.731,0.812,0.859,0.782,0.838,0.733,0.803,(2.3432)+(0.0054)Gln+(-0.0029)Ala+(-0.0135)Arg+(-0.0056)Val+(-0.1771)Met+(0.0019)Lys;0.676,0.729,0.744,0.806,0.681,0.742,0.716,0.736,(1.2616)+(-0.0027)Gly+(0.0068)Thr+(-0.0072)Ala+(-0.0642)Tyr+(-0.0126)Leu+(0.0785)Phe;0.676,0.726,0.658,0.650,0.680,0.750,0.568,0.662,(-1.3877)+(0.0189)Ser+(-0.1050)Cit+(0.0001)Pro+(-0.0188)Val+(0.0388)Orn+(0.0444)Phe;0.676,0.728,0.777,0.798,0.746,0.824,0.749,0.779,(4.3810)+(-0.0916)Asn+(0.0106)Thr+(-0.0091)Ala+(-0.0130)Arg+(0.0107)Pro+(-0.0063)Leu;0.676,0.729,0.817,0.861,0.786,0.837,0.752,0.809,(2.4813)+(-0.0012)Gly+(0.0058)Gln+(-0.0029)Ala+(-0.0127)Arg+(-0.0053)Val+(-0.1715)Met;0.676,0.729,0.699,0.727,0.656,0.770,0.664,0.704,(3.0239)+(0.0054)Pro+(-0.0435)Tyr+(-0.0302)Val+(0.0335)Orn+(-0.0139)Lys+(0.0380)Leu;0.676,0.728,0.711,0.713,0.738,0.773,0.601,0.706,(1.1296)+(0.0007)Gly+(-0.0879)Cit+(-0.0179)Arg+(-0.0195)Val+(0.0481)Orn+(0.0464)Phe;0.676,0.730,0.692,0.717,0.656,0.714,0.685,0.693,(1.7240)+(-0.0128)Arg+(0.0007)Pro+(-0.0654)Tyr+(-0.0178)Lys+(0.0369)Ile+(0.0480)Phe;0.676,0.727,0.747,0.760,0.707,0.805,0.750,0.756,(1.3871)+(0.0026)Gly+(-0.0096)Ala+(-0.0757)Cit+(-0.0206)Val+(0.0253)Leu+(0.0557)Phe;0.676,0.728,0.691,0.714,0.646,0.705,0.714,0.695,(1.61

12)+(-0.0009)Gly+(0.0001)Pro+(-0.0679)Tyr+(-0.0210)Lys+(0.0380)Ile+(0.0469)Phe;0.676,0.727,0.744,0.772,0.747,0.771,0.646,0.734,(3.3822)+(-0.0006)Gly+(-0.0135)Arg+(-0.0158)Tyr+(-0.1745)Met+(0.0296)Orn+(-0.0023)Leu;0.676,0.728,0.765,0.785,0.725,0.794,0.773,0.769,(5.1796)+(-0.1204)Asn+(0.0020)Gly+(-0.0049)Arg+(-0.0392)Val+(0.0010)Lys+(0.0551)Leu;0.676,0.732,0.685,0.703,0.647,0.735,0.683,0.692,(0.3535)+(0.0412)Ser+(-0.0095)Gly+(-0.0016)Gln+(-0.0116)Thr+(-0.0575)Tyr+(0.0216)Orn;0.676,0.728,0.746,0.762,0.771,0.767,0.638,0.734,(3.6483)+(0.0029)Gly+(-0.0706)Cit+(0.0031)Arg+(-0.0026)Tyr+(-0.1942)Met+(0.0064)Leu;0.676,0.726,0.672,0.710,0.650,0.694,0.602,0.664,(1.2413)+(0.0053)Thr+(0.0027)Pro+(-0.0741)Tyr+(0.0217)Orn+(-0.0218)Lys+(0.0616)Phe;0.676,0.737,0.679,0.714,0.632,0.728,0.650,0.681,(0.6538)+(0.0342)Ser+(-0.0115)Gly+(0.0067)Pro+(-0.0689)Tyr+(0.0165)Orn+(-0.0111)Leu;0.676,0.738,0.670,0.710,0.669,0.767,0.497,0.661,(0.4132)+(0.0291)Ser+(-0.0011)Gln+(-0.0071)Thr+(-0.0247)Arg+(-0.0470)Tyr+(0.0230)Orn;0.676,0.733,0.754,0.788,0.742,0.776,0.673,0.745,(4.2765)+(0.0004)Gly+(-0.0084)Arg+(0.0117)Pro+(-0.0090)Tyr+(-0.0096)Val+(-0.1821)Met;0.676,0.732,0.791,0.815,0.775,0.810,0.748,0.787,(3.9921)+(-0.0398)Asn+(0.0016)Gly+(-0.0043)Ala+(-0.0043)Arg+(-0.1344)Met+(0.0057)Leu;0.676,0.729,0.714,0.747,0.713,0.734,0.614,0.702,(2.0093)+(0.0022)Gly+(-0.0771)Cit+(0.0016)Arg+(-0.0592)Tyr+(-0.0148)Lys+(0.0778)Phe;0.676,0.725,0.680,0.669,0.691,0.724,0.654,0.685,(-1.6943)+(0.0409)Ser+(-0.0044)Gly+(-0.0164)Thr+(-0.0695)Cit+(-0.0164)Arg+(0.0316)Phe;0.676,0.735,0.723,0.780,0.684,0.712,0.658,0.709,(1.9772)+(-0.0032)Gly+(0.0140)Thr+(-0.0720)Tyr+(-0.0133)Val+(-0.0133)Lys+(0.0873)Phe;0.676,0.729,0.734,0.794,0.665,0.713,0.733,0.726,(1.3102)+(-0.0028)Gly+(0.0010)Gln+(-0.0678)Tyr+(-0.0245)Val+(0.0195)Leu+(0.0707)Phe;0.676,0.730,0.772,0.806,0.766,0.799,0.674,0.762,(5.5667)+(-0.0842)Asn+(0.0026)Gly+(-0.0607)Cit+(0.0029)Arg+(-0.0178)Tyr+(-0.0071)

Val;0.676,0.732,0.646,0.686,0.592,0.748,0.577,0.651,(0.5138)+(0.0171)Ser+(0.0059)Pro+(-0.0549)Tyr+(-0.0297)Val+(0.0194)Orn+(0.0323)Leu;0.676,0.735,0.743,0.809,0.689,0.743,0.680,0.730,(1.0779)+(0.0024)Gln+(-0.0218)Arg+(-0.0611)Tyr+(-0.0238)Val+(0.0187)Leu+(0.0759)Phe;0.676,0.730,0.750,0.809,0.699,0.732,0.716,0.739,(1.2994)+(-0.0027)Gly+(0.0025)Gln+(-0.0645)Tyr+(-0.0125)Val+(-0.0104)Lys+(0.0804)Phe;0.676,0.737,0.692,0.683,0.625,0.813,0.766,0.722,(-0.3301)+(0.0342)Ser+(-0.0028)Gln+(-0.0199)Thr+(-0.0117)Ala+(0.0121)Pro+(0.0171)Orn;0.676,0.721,0.679,0.689,0.649,0.727,0.680,0.686,(2.6262)+(-0.0025)Gly+(0.0053)Thr+(-0.0604)Tyr+(0.0200)Orn+(-0.0226)Lys+(0.0411)Ile;0.676,0.737,0.672,0.711,0.666,0.780,0.501,0.664,(0.9098)+(0.0300)Ser+(-0.0214)Arg+(0.0077)Pro+(-0.0432)Tyr+(-0.0112)Lys+(-0.0023)Leu;0.676,0.729,0.787,0.807,0.792,0.799,0.713,0.778,(5.5788)+(-0.0505)Asn+(-0.0575)Cit+(0.0053)Arg+(-0.0038)Tyr+(-0.0055)Val+(-0.1031)Met;0.676,0.726,0.765,0.772,0.765,0.847,0.692,0.769,(3.7134)+(0.0018)Gly+(0.0100)Thr+(-0.0090)Ala+(-0.0857)Cit+(-0.0134)Lys+(0.0100)Leu;0.676,0.716,0.728,0.740,0.724,0.782,0.665,0.728,(1.3318)+(0.0368)Ser+(-0.0067)Gly+(-0.0071)Thr+(-0.0500)Cit+(-0.0162)Arg+(-0.0095)Val;0.676,0.737,0.709,0.704,0.692,0.803,0.690,0.722,(1.1958)+(0.0374)Ser+(-0.0092)Gly+(-0.0015)Gln+(-0.0109)Val+(0.0270)Orn+(-0.0190)Lys;0.676,0.733,0.719,0.694,0.772,0.801,0.615,0.720,(1.8333)+(-0.1116)Cit+(-0.0026)Arg+(0.0539)Orn+(-0.0223)Lys+(-0.0128)Leu+(0.0472)Phe;0.676,0.734,0.710,0.710,0.713,0.782,0.653,0.715,(0.6066)+(0.0401)Ser+(-0.0088)Gly+(-0.0229)Arg+(0.0230)Orn+(-0.0192)Lys+(-0.0055)Leu;0.676,0.733,0.796,0.812,0.794,0.824,0.737,0.792,(4.7646)+(-0.0044)Ala+(-0.0658)Cit+(0.0040)Arg+(0.0024)Tyr+(-0.0017)Val+(-0.1333)Met;0.676,0.729,0.805,0.839,0.787,0.815,0.749,0.797,(5.0000)+(-0.0541)Asn+(-0.0025)Ala+(-0.0057)Arg+(-0.0079)Val+(-0.1054)Met+(0.0058)Lys;0.676,0.724,0.707,0.719,0.723,0.806,0.574,0.705,(1.4192)+(0.0304)Ser

+(-0.0037)Thr+(-0.0662)Cit+(-0.0076)Arg+(-0.0046)Val+(-0.0130)Lys;0.676,0.729,0.670,0.684,0.640,0.753,0.634,0.678,(-1.7101)+(0.0335)Ser+(-0.0112)Thr+(0.0050)Pro+(-0.0136)Val+(-0.0183)Lys+(0.0541)Phe;0.676,0.731,0.695,0.685,0.701,0.773,0.650,0.702,(0.4109)+(0.0414)Ser+(-0.0085)Gly+(-0.0005)Gln+(-0.0215)Arg+(0.0218)Orn+(-0.0214)Lys;0.676,0.731,0.790,0.814,0.788,0.815,0.715,0.783,(2.7704)+(-0.1170)Asn+(0.0023)Gly+(0.0073)Gln+(-0.0818)Cit+(-0.0077)Lys+(-0.0019)Leu;0.676,0.730,0.719,0.783,0.674,0.699,0.660,0.704,(2.1015)+(-0.0013)Gly+(-0.0195)Arg+(0.0081)Pro+(-0.0670)Tyr+(-0.0164)Val+(0.0807)Phe;0.676,0.726,0.790,0.828,0.775,0.794,0.722,0.780,(4.7483)+(-0.0624)Asn+(0.0011)Gly+(-0.0040)Tyr+(-0.0090)Val+(-0.1189)Met+(0.0051)Lys;0.676,0.722,0.698,0.751,0.692,0.682,0.582,0.677,(1.4250)+(-0.0001)Gly+(0.0066)Thr+(-0.0749)Cit+(-0.0736)Tyr+(-0.0160)Leu+(0.0836)Phe;0.676,0.729,0.759,0.830,0.707,0.738,0.694,0.742,(1.1225)+(-0.0024)Gly+(0.0034)Gln+(-0.0219)Arg+(-0.0645)Tyr+(-0.0149)Val+(0.0817)Phe;0.676,0.728,0.658,0.627,0.674,0.725,0.663,0.672,(-1.6757)+(0.0411)Ser+(-0.0040)Gly+(-0.0180)Thr+(-0.0700)Cit+(-0.0159)Arg+(0.0313)Ile;0.676,0.728,0.751,0.768,0.755,0.744,0.706,0.743,(2.3381)+(-0.1165)Asn+(0.0014)Gly+(0.0245)Orn+(-0.0095)Lys+(-0.0190)Leu+(0.0551)Phe;0.676,0.734,0.677,0.696,0.628,0.719,0.700,0.685,(-0.2538)+(0.0413)Ser+(-0.0101)Gly+(-0.0140)Thr+(0.0061)Pro+(-0.0650)Tyr+(0.0174)Orn;0.676,0.729,0.790,0.802,0.773,0.847,0.754,0.794,(2.4808)+(0.0011)Gly+(0.0043)Gln+(-0.0088)Ala+(-0.0876)Cit+(-0.0129)Lys+(0.0093)Leu;0.676,0.727,0.753,0.778,0.750,0.792,0.666,0.746,(5.2159)+(-0.1008)Asn+(0.0035)Gly+(-0.0602)Cit+(-0.0002)Arg+(0.0082)Pro+(-0.0123)Val;0.676,0.723,0.683,0.701,0.655,0.791,0.614,0.690,(0.1563)+(0.0291)Ser+(-0.0081)Thr+(-0.0259)Arg+(0.0062)Pro+(-0.0299)Val+(0.0312)Leu;0.676,0.727,0.710,0.759,0.626,0.744,0.731,0.715,(0.8226)+(0.0002)Gln+(0.0009)Thr+(-0.0109)Ala+(0.0105)Pro+(-0.0630)Tyr+(0.0574)Phe;0.676,0.

732,0.688,0.710,0.685,0.758,0.584,0.684,(-1.6870)+(0.0360)Ser+(-0.0072)Thr+(-0.0231)Arg+(-0.0167)Lys+(-0.0111)Leu+(0.0553)Phe;0.676,0.724,0.796,0.837,0.765,0.808,0.741,0.788,(3.5669)+(-0.1220)Asn+(-0.0001)Gly+(0.0062)Gln+(-0.0145)Arg+(0.0074)Pro+(-0.0157)Val;0.676,0.723,0.760,0.765,0.745,0.818,0.740,0.767,(3.4075)+(0.0033)Thr+(-0.0122)Ala+(-0.0808)Cit+(-0.0054)Arg+(0.0122)Pro+(-0.0017)Leu;0.676,0.729,0.768,0.768,0.759,0.776,0.784,0.772,(1.1282)+(-0.1114)Asn+(0.0055)Gln+(-0.0145)Arg+(-0.0157)Lys+(0.0263)Ile+(0.0243)Phe;0.676,0.733,0.734,0.716,0.782,0.822,0.618,0.734,(2.4261)+(0.0021)Gln+(-0.0026)Thr+(-0.1136)Cit+(0.0542)Orn+(-0.0212)Lys+(-0.0051)Leu;0.676,0.729,0.767,0.784,0.725,0.809,0.782,0.775,(1.0953)+(0.0020)Gln+(-0.0114)Ala+(-0.0170)Arg+(0.0091)Pro+(-0.0129)Lys+(0.0415)Phe;0.676,0.737,0.747,0.750,0.694,0.842,0.783,0.767,(2.7141)+(0.0035)Thr+(-0.0075)Ala+(-0.0327)Val+(0.0332)Orn+(-0.0157)Lys+(0.0486)Leu;0.676,0.736,0.778,0.796,0.763,0.830,0.726,0.779,(3.7546)+(-0.0958)Asn+(0.0007)Gly+(0.0082)Thr+(-0.0074)Ala+(-0.0156)Arg+(0.0246)Orn;0.676,0.721,0.708,0.722,0.725,0.807,0.567,0.705,(1.2370)+(0.0280)Ser+(0.0010)Gln+(-0.0672)Cit+(-0.0097)Arg+(-0.0050)Val+(-0.0142)Lys;0.676,0.728,0.795,0.815,0.757,0.831,0.798,0.800,(2.4844)+(-0.1249)Asn+(-0.0002)Gly+(0.0039)Gln+(0.0044)Thr+(-0.0078)Ala+(0.0182)Orn;0.676,0.727,0.685,0.748,0.620,0.680,0.657,0.676,(0.9785)+(0.0028)Thr+(0.0059)Pro+(-0.0727)Tyr+(-0.0253)Val+(0.0177)Leu+(0.0689)Phe;0.676,0.732,0.720,0.695,0.776,0.817,0.597,0.721,(2.2734)+(0.0006)Gly+(0.0019)Gln+(-0.1160)Cit+(-0.0009)Pro+(0.0529)Orn+(-0.0237)Lys;0.676,0.725,0.772,0.791,0.731,0.825,0.768,0.778,(3.9847)+(-0.1024)Asn+(0.0008)Gly+(0.0071)Thr+(-0.0093)Ala+(0.0107)Pro+(-0.0061)Leu;0.676,0.727,0.743,0.741,0.660,0.813,0.871,0.772,(0.0665)+(0.0005)Gly+(0.0001)Gln+(-0.0084)Thr+(-0.0132)Ala+(0.0443)Ile+(0.0112)Phe;0.676,0.721,0.719,0.716,0.734,0.795,0.638,0.721,(2.2990)+(0.0001)Gln+(-0.0085)Thr+(-0.10

00)Cit+(0.0027)Pro+(-0.0155)Val+(0.0517)Orn;0.676,0.727,0.816,0.858,0.765,0.833,0.800,0.814,(3.2034)+(-0.0962)Asn+(-0.0011)Gly+(0.0061)Gln+(-0.0049)Ala+(-0.0267)Tyr+(-0.0043)Lys;0.676,0.727,0.767,0.793,0.783,0.795,0.647,0.754,(4.2736)+(0.0022)Gly+(-0.0613)Cit+(0.0012)Tyr+(-0.0044)Val+(-0.1680)Met+(0.0015)Lys;0.676,0.723,0.687,0.714,0.660,0.739,0.637,0.687,(1.8962)+(0.0025)Gln+(0.0092)Thr+(-0.0198)Arg+(-0.0566)Tyr+(-0.0187)Lys+(0.0450)Ile;0.675,0.730,0.813,0.860,0.767,0.831,0.769,0.807,(3.0476)+(-0.0948)Asn+(0.0064)Gln+(-0.0047)Ala+(-0.0125)Arg+(-0.0264)Tyr+(-0.0007)Leu;0.675,0.728,0.726,0.763,0.678,0.727,0.729,0.724,(2.0534)+(-0.1169)Asn+(0.0040)Gln+(0.0007)Pro+(-0.0560)Tyr+(0.0126)Orn+(0.0281)Ile;0.675,0.735,0.734,0.759,0.672,0.814,0.738,0.746,(1.0427)+(0.0353)Ser+(-0.0087)Gly+(-0.0005)Gln+(-0.0063)Ala+(-0.0419)Tyr+(0.0013)Leu;0.675,0.733,0.675,0.692,0.687,0.753,0.548,0.670,(-1.2453)+(0.0355)Ser+(-0.0014)Gln+(-0.0247)Arg+(-0.0183)Lys+(-0.0114)Leu+(0.0562)Phe;0.675,0.732,0.681,0.703,0.661,0.716,0.638,0.679,(1.3954)+(0.0020)Gln+(0.0012)Thr+(-0.0837)Cit+(0.0002)Pro+(-0.0658)Tyr+(0.0385)Ile;0.675,0.730,0.765,0.814,0.752,0.794,0.637,0.750,(5.8638)+(-0.1011)Asn+(-0.0010)Gly+(0.0202)Thr+(-0.0136)Arg+(-0.0297)Tyr+(-0.0111)Val;0.675,0.727,0.692,0.687,0.714,0.791,0.585,0.694,(0.4999)+(0.0323)Ser+(0.0009)Gln+(-0.0069)Thr+(-0.0804)Cit+(-0.0191)Lys+(0.0047)Leu;0.675,0.724,0.767,0.805,0.735,0.827,0.688,0.764,(4.1071)+(-0.0025)Gly+(-0.0049)Ala+(-0.0194)Arg+(-0.0322)Tyr+(-0.0105)Val+(0.0401)Orn;0.675,0.721,0.764,0.777,0.744,0.827,0.726,0.769,(3.8458)+(0.0044)Thr+(-0.0109)Ala+(-0.0724)Cit+(-0.0069)Arg+(0.0130)Pro+(-0.0069)Val;0.675,0.727,0.761,0.822,0.690,0.756,0.750,0.754,(0.7960)+(-0.0026)Gly+(0.0019)Gln+(-0.0070)Ala+(-0.0609)Tyr+(-0.0123)Leu+(0.0761)Phe;0.675,0.726,0.741,0.737,0.662,0.812,0.868,0.770,(0.1469)+(0.0001)Gln+(-0.0092)Thr+(-0.0132)Ala+(0.0066)Orn+(0.0422)Ile+(0.0095)Phe;0.675,0.724,0.754,0.799,0.726,

0.766,0.685,0.744,(5.5138)+(-0.0850)Asn+(0.0007)Gly+(-0.0077)Arg+(0.0102)Pro+(-0.0282)Tyr+(-0.0127
)Val;0.675,0.714,0.706,0.708,0.695,0.774,0.675,0.713,(1.1323)+(0.0345)Ser+(-0.0069)Gly+(-0.0424)Cit+(-0.0201)Arg+(-0.0273)Val+(0.0310)Leu;0.675,0.730,0.769,0.814,0.742,0.803,0.682,0.760,(4.9758)+(-0.0883)Asn+(-0.0005)Gly+(0.0183)Thr+(-0.0052)Ala+(-0.0129)Arg+(-0.0328)Tyr;0.675,0.726,0.687,0.684,0.717,0.792,0.556,0.687,(0.7007)+(0.0303)Ser+(0.0008)Gln+(-0.0766)Cit+(-0.0069)Arg+(-0.0195)Lys+(0.0035)Leu;0.675,0.726,0.710,0.754,0.694,0.776,0.580,0.701,(3.6270)+(-0.0209)Arg+(0.0076)Pro+(-0.0436)Tyr+(-0.0136)Val+(0.0362)Orn+(-0.0051)Lys;0.675,0.728,0.715,0.718,0.741,0.775,0.613,0.712,(1.2291)+(0.0001)Gln+(-0.0871)Cit+(-0.0179)Arg+(-0.0195)Val+(0.0482)Orn+(0.0455)Phe;0.675,0.727,0.766,0.814,0.730,0.841,0.656,0.760,(2.9542)+(0.0021)Gln+(-0.0053)Ala+(-0.0228)Arg+(-0.0315)Tyr+(-0.0103)Val+(0.0360)Orn;0.675,0.725,0.739,0.736,0.659,0.812,0.865,0.768,(0.0910)+(0.0005)Gly+(-0.0094)Thr+(-0.0132)Ala+(0.0065)Orn+(0.0425)Ile+(0.0098)Phe;0.675,0.731,0.723,0.717,0.636,0.804,0.860,0.754,(-0.0452)+(-0.0007)Gly+(-0.0149)Ala+(0.0054)Pro+(0.0001)Orn+(0.0375)Ile+(0.0064)Phe;0.675,0.728,0.759,0.772,0.711,0.844,0.766,0.773,(2.9666)+(-0.0013)Gly+(-0.0073)Ala+(-0.0208)Arg+(-0.0328)Val+(0.0357)Orn+(0.0412)Leu;0.675,0.735,0.671,0.685,0.636,0.789,0.622,0.683,(1.3799)+(0.0302)Ser+(-0.0018)Gln+(-0.0287)Tyr+(-0.0279)Val+(-0.0163)Lys+(0.0462)Leu;0.675,0.733,0.746,0.783,0.740,0.767,0.646,0.734,(4.6411)+(-0.0770)Asn+(-0.0125)Arg+(-0.0370)Tyr+(0.0362)Orn+(-0.0039)Lys+(-0.0078)Leu;0.675,0.721,0.747,0.772,0.717,0.804,0.700,0.748,(0.9409)+(0.0380)Ser+(-0.0084)Gly+(0.0006)Gln+(-0.0063)Thr+(-0.0250)Arg+(-0.0122)Val;0.675,0.733,0.795,0.810,0.793,0.822,0.737,0.791,(4.6939)+(-0.0047)Ala+(-0.0682)Cit+(0.0047)Arg+(0.0017)Tyr+(-0.1337)Met+(-0.0006)Lys;0.675,0.726,0.756,0.777,0.778,0.781,0.637,0.743,(4.0308)+(0.002

6)Gly+(-0.0681)Cit+(0.0034)Arg+(-0.0012)Tyr+(-0.1731)Met+(-0.0015)Lys
;0.675,0.719,0.693,0.693,0.691,0.723,0.673,0.695,(-1.5810)+(0.0382)Se
r+(-0.0044)Gly+(-0.0184)Thr+(-0.0777)Cit+(-0.0158)Leu+(0.0485)Phe;0.6
75,0.739,0.748,0.781,0.700,0.855,0.685,0.755,(0.2030)+(0.0297)Ser+(-0
.0002)Gln+(-0.0068)Thr+(-0.0075)Ala+(-0.0208)Arg+(-0.0000)Leu;0.675,0
.733,0.719,0.694,0.772,0.802,0.617,0.721,(1.8057)+(-0.1144)Cit+(-0.00
09)Pro+(0.0546)Orn+(-0.0231)Lys+(-0.0120)Leu+(0.0475)Phe;0.675,0.731,
0.715,0.719,0.656,0.799,0.766,0.735,(-0.9741)+(0.0342)Ser+(-0.0063)Gl
y+(-0.0026)Gln+(-0.0100)Ala+(-0.0107)Leu+(0.0470)Phe;0.675,0.728,0.78
2,0.817,0.751,0.805,0.734,0.777,(3.6671)+(-0.1461)Asn+(0.0048)Gln+(0.
0096)Thr+(0.0066)Pro+(-0.0165)Val+(-0.0025)Lys;0.675,0.726,0.694,0.72
5,0.659,0.703,0.675,0.691,(3.1117)+(-0.1090)Asn+(0.0000)Gly+(0.0088)T
hr+(-0.0591)Tyr+(0.0139)Orn+(0.0301)Ile;0.675,0.724,0.686,0.752,0.630
,0.672,0.635,0.672,(1.0193)+(-0.0003)Gln+(0.0028)Thr+(0.0066)Pro+(-0.
0741)Tyr+(-0.0171)Val+(0.0766)Phe;0.675,0.731,0.741,0.770,0.736,0.752
,0.664,0.731,(3.5150)+(0.0007)Gly+(-0.0093)Arg+(0.0092)Pro+(-0.0145)T
yr+(-0.1998)Met+(-0.0009)Leu;0.675,0.727,0.733,0.743,0.665,0.805,0.79
5,0.752,(1.1347)+(-0.0017)Gln+(-0.0092)Ala+(-0.0327)Val+(0.0269)Orn+(
0.0351)Leu+(0.0414)Phe;0.675,0.731,0.667,0.686,0.666,0.713,0.583,0.66
2,(2.2211)+(0.0007)Gly+(0.0065)Thr+(-0.0725)Cit+(-0.0117)Arg+(-0.0630
)Tyr+(0.0401)Ile;0.675,0.729,0.729,0.751,0.687,0.786,0.718,0.735,(3.6
575)+(-0.0035)Gly+(-0.0410)Tyr+(-0.0304)Val+(0.0388)Orn+(-0.0134)Lys+
(0.0404)Leu;0.675,0.727,0.761,0.774,0.722,0.806,0.776,0.769,(1.6324)+
(0.0006)Gly+(-0.0114)Ala+(-0.0152)Arg+(0.0096)Pro+(-0.0121)Lys+(0.043
6)Phe;0.675,0.728,0.763,0.794,0.772,0.801,0.634,0.750,(5.4905)+(-0.11
40)Asn+(0.0021)Gly+(0.0149)Thr+(-0.0589)Cit+(-0.0045)Arg+(-0.0108)Val
;0.675,0.727,0.767,0.803,0.741,0.777,0.722,0.761,(3.1476)+(-0.1005)As
n+(-0.0018)Gly+(0.0051)Gln+(-0.0433)Tyr+(0.0278)Orn+(-0.0102)Lys;0.67

5,0.727,0.702,0.707,0.723,0.800,0.577,0.702,(0.6935)+(0.0312)Ser+(0.0012)Gln+(-0.0058)Thr+(-0.0747)Cit+(-0.0060)Arg+(-0.0163)Lys;0.675,0.723,0.699,0.711,0.664,0.734,0.716,0.706,(2.1019)+(-0.0027)Gly+(0.0019)Gln+(-0.0585)Tyr+(0.0197)Orn+(-0.0223)Lys+(0.0403)Ile;0.675,0.711,0.706,0.715,0.706,0.767,0.637,0.706,(1.2436)+(0.0343)Ser+(-0.0069)Gly+(-0.0466)Cit+(-0.0220)Arg+(0.0061)Pro+(-0.0133)Val;0.675,0.723,0.734,0.782,0.662,0.753,0.746,0.736,(0.8143)+(-0.0026)Gly+(0.0007)Gln+(-0.0087)Ala+(-0.0628)Tyr+(0.0178)Orn+(0.0577)Phe;0.675,0.741,0.681,0.720,0.680,0.784,0.505,0.673,(0.9881)+(0.0270)Ser+(-0.0218)Arg+(-0.0400)Tyr+(0.0264)Orn+(-0.0140)Lys+(-0.0008)Leu;0.675,0.735,0.624,0.588,0.695,0.737,0.490,0.627,(-1.1714)+(0.0285)Ser+(-0.0028)Gln+(-0.0928)Cit+(-0.0225)Arg+(0.0282)Orn+(0.0210)Phe;0.675,0.732,0.692,0.718,0.677,0.728,0.629,0.688,(1.4055)+(0.0003)Gly+(0.0030)Gln+(-0.0748)Cit+(-0.0118)Arg+(-0.0614)Tyr+(0.0389)Ile;0.675,0.721,0.750,0.771,0.716,0.831,0.706,0.756,(3.3014)+(-0.0088)Ala+(-0.0193)Arg+(0.0108)Pro+(-0.0120)Val+(0.0322)Orn+(-0.0062)Lys;0.675,0.729,0.773,0.791,0.761,0.833,0.707,0.773,(4.1648)+(0.0020)Gly+(-0.0073)Ala+(-0.0766)Cit+(-0.0183)Tyr+(-0.0080)Lys+(0.0096)Leu;0.675,0.724,0.692,0.756,0.648,0.656,0.641,0.675,(1.0025)+(-0.0040)Gly+(0.0055)Pro+(-0.0833)Tyr+(0.0214)Orn+(-0.0248)Leu+(0.0723)Phe;0.675,0.730,0.738,0.772,0.702,0.794,0.684,0.738,(3.7405)+(-0.0031)Gly+(-0.0207)Arg+(-0.0425)Tyr+(-0.0308)Val+(0.0395)Orn+(0.0345)Leu;0.675,0.728,0.769,0.798,0.764,0.835,0.657,0.763,(4.5767)+(-0.0000)Gly+(0.0131)Thr+(-0.0068)Ala+(-0.0755)Cit+(-0.0257)Tyr+(-0.0089)Lys;0.675,0.723,0.738,0.732,0.658,0.815,0.867,0.768,(0.3732)+(0.0003)Gly+(0.0001)Gln+(-0.0093)Thr+(-0.0129)Ala+(0.0073)Orn+(0.0444)Ile;0.675,0.731,0.784,0.803,0.768,0.831,0.735,0.784,(4.0588)+(-0.0840)Asn+(0.0008)Gly+(-0.0063)Ala+(-0.0136)Arg+(0.0313)Orn+(-0.0069)Leu;0.675,0.728,0.739,0.780,0.725,0.746,0.656,0.727,(4.4658)+(-0.1062)Asn+(-0.0013)

Gly+(0.0095)Thr+(-0.0456)Tyr+(0.0281)Orn+(-0.0099)Leu;0.675,0.726,0.779,0.801,0.742,0.825,0.765,0.783,(4.1634)+(-0.0800)Asn+(0.0016)Gly+(-0.0089)Ala+(-0.0095)Arg+(0.0115)Pro+(-0.0052)Leu;0.675,0.725,0.741,0.806,0.712,0.729,0.637,0.721,(0.7597)+(0.0034)Gln+(-0.0196)Arg+(-0.0641)Tyr+(-0.0088)Lys+(-0.0145)Leu+(0.0790)Phe;0.675,0.725,0.801,0.826,0.763,0.834,0.792,0.804,(2.7512)+(-0.1171)Asn+(-0.0004)Gly+(0.0041)Gln+(-0.0067)Ala+(0.0233)Orn+(-0.0074)Leu;0.675,0.736,0.691,0.732,0.611,0.823,0.654,0.705,(0.4241)+(0.0200)Ser+(-0.0101)Ala+(0.0122)Pro+(-0.0457)Tyr+(0.0135)Orn+(-0.0048)Leu;0.675,0.733,0.702,0.679,0.759,0.798,0.573,0.702,(1.3984)+(0.0022)Gly+(-0.1176)Cit+(0.0535)Orn+(-0.0238)Lys+(-0.0119)Leu+(0.0494)Phe;0.675,0.730,0.675,0.644,0.720,0.778,0.587,0.682,(0.5459)+(0.0277)Ser+(-0.0051)Gly+(-0.0025)Gln+(-0.1023)Cit+(0.0376)Orn+(-0.0153)Leu;0.675,0.729,0.766,0.807,0.741,0.784,0.694,0.757,(3.1644)+(-0.1068)Asn+(0.0048)Gln+(-0.0392)Tyr+(0.0286)Orn+(-0.0076)Lys+(-0.0064)Leu;0.675,0.735,0.682,0.703,0.641,0.797,0.630,0.693,(0.9698)+(0.0278)Ser+(-0.0003)Thr+(-0.0303)Tyr+(-0.0272)Val+(-0.0171)Lys+(0.0444)Leu;0.675,0.730,0.760,0.783,0.717,0.805,0.757,0.765,(1.2003)+(0.0007)Thr+(-0.0079)Ala+(-0.0131)Val+(0.0291)Orn+(-0.0139)Lys+(0.0560)Phe;0.675,0.724,0.762,0.774,0.724,0.802,0.780,0.770,(2.0610)+(-0.0088)Ala+(-0.0633)Cit+(-0.0075)Arg+(-0.0217)Val+(0.0260)Leu+(0.0565)Phe;0.675,0.728,0.688,0.684,0.713,0.789,0.573,0.690,(0.7965)+(0.0332)Ser+(-0.0055)Thr+(-0.0754)Cit+(-0.0043)Arg+(-0.0179)Lys+(0.0043)Leu;0.675,0.721,0.688,0.671,0.708,0.757,0.644,0.695,(1.3572)+(-0.0018)Gln+(-0.0976)Cit+(-0.0306)Val+(0.0497)Orn+(0.0233)Leu+(0.0334)Phe;0.675,0.722,0.708,0.717,0.720,0.805,0.591,0.708,(1.0277)+(0.0295)Ser+(0.0010)Gln+(-0.0059)Thr+(-0.0744)Cit+(-0.0039)Val+(-0.0150)Lys;0.674,0.732,0.762,0.815,0.749,0.792,0.629,0.746,(5.7043)+(-0.1049)Asn+(0.0192)Thr+(-0.0143)Arg+(-0.0291)Tyr+(-0.0114)Val+(0.0018)Lys;0.674,0.725,0.798,0.

831,0.772,0.848,0.726,0.794,(3.0493)+(0.0048)Gln+(-0.0065)Ala+(-0.078
4)Cit+(-0.0223)Tyr+(-0.0006)Val+(-0.0080)Lys;0.674,0.725,0.758,0.804,
0.727,0.764,0.696,0.748,(5.5529)+(-0.0910)Asn+(-0.0102)Arg+(0.0105)Pr
o+(-0.0310)Tyr+(-0.0143)Val+(0.0057)Lys;0.674,0.731,0.755,0.790,0.756
,0.773,0.649,0.742,(4.9096)+(-0.0832)Asn+(0.0030)Gly+(-0.0685)Cit+(0.
0026)Arg+(-0.0271)Tyr+(-0.0008)Leu;0.674,0.729,0.747,0.786,0.720,0.76
2,0.692,0.740,(3.0115)+(-0.1045)Asn+(0.0045)Gln+(0.0043)Pro+(-0.0461)
Tyr+(0.0251)Orn+(-0.0102)Lys;0.674,0.727,0.758,0.799,0.730,0.828,0.65
5,0.753,(3.8189)+(-0.0050)Ala+(-0.0180)Arg+(-0.0281)Tyr+(-0.0092)Val+
(0.0397)Orn+(-0.0045)Lys;0.674,0.721,0.667,0.683,0.655,0.728,0.609,0.
669,(2.6022)+(0.0084)Thr+(-0.0186)Arg+(-0.0573)Tyr+(0.0205)Orn+(-0.01
95)Lys+(0.0414)Ile;0.674,0.733,0.734,0.747,0.761,0.776,0.611,0.724,(4
.3943)+(-0.1038)Asn+(0.0036)Gly+(0.0116)Thr+(-0.0771)Cit+(0.0033)Pro+
(-0.0096)Lys;0.674,0.726,0.793,0.802,0.774,0.847,0.768,0.798,(2.5644)
+(0.0045)Gln+(-0.0088)Ala+(-0.0872)Cit+(0.0015)Arg+(-0.0131)Lys+(0.00
91)Leu;0.674,0.722,0.703,0.739,0.676,0.751,0.631,0.699,(3.4963)+(0.00
54)Thr+(-0.0625)Cit+(0.0073)Pro+(-0.0495)Tyr+(-0.0240)Val+(0.0285)Leu
;0.674,0.728,0.767,0.791,0.783,0.798,0.649,0.755,(4.2820)+(0.0023)Gly
+(-0.0633)Cit+(0.0022)Arg+(0.0012)Tyr+(-0.0040)Val+(-0.1662)Met;0.674
,0.727,0.712,0.714,0.737,0.772,0.611,0.709,(1.2708)+(-0.0864)Cit+(-0.
0180)Arg+(0.0012)Pro+(-0.0198)Val+(0.0477)Orn+(0.0446)Phe;0.674,0.726
,0.746,0.779,0.733,0.759,0.677,0.737,(4.5096)+(-0.0831)Asn+(-0.0007)G
ly+(-0.0387)Tyr+(0.0341)Orn+(-0.0065)Lys+(-0.0066)Leu;0.674,0.726,0.7
88,0.823,0.779,0.795,0.712,0.777,(1.7492)+(-0.0008)Gly+(0.0057)Gln+(-
0.0125)Arg+(-0.2185)Met+(-0.0038)Lys+(0.0039)Leu;0.674,0.724,0.712,0.
779,0.647,0.675,0.695,0.699,(1.2981)+(-0.0031)Gly+(0.0009)Gln+(0.0069
)Pro+(-0.0745)Tyr+(-0.0167)Val+(0.0745)Phe;0.674,0.735,0.672,0.723,0.
658,0.765,0.502,0.662,(0.6190)+(0.0292)Ser+(-0.0054)Thr+(-0.0250)Arg+

(0.0085)Pro+(-0.0472)Tyr+(-0.0078)Leu;0.674,0.735,0.655,0.649,0.586,0.782,0.725,0.685,(-1.1783)+(0.0284)Ser+(-0.0045)Gln+(-0.0138)Ala+(0.0094)Pro+(0.0046)Orn+(0.0333)Phe;0.674,0.723,0.692,0.680,0.706,0.763,0.645,0.698,(0.6878)+(-0.0997)Cit+(-0.0002)Pro+(-0.0298)Val+(0.0470)Orn+(0.0218)Leu+(0.0318)Phe;0.674,0.724,0.717,0.772,0.711,0.702,0.594,0.695,(1.7031)+(0.0011)Gly+(-0.0658)Cit+(-0.0087)Arg+(-0.0645)Tyr+(-0.0155)Leu+(0.0850)Phe;0.674,0.722,0.684,0.728,0.664,0.674,0.614,0.670,(0.4974)+(-0.0001)Gly+(0.0024)Gln+(-0.0827)Cit+(0.0037)Pro+(-0.0787)Tyr+(0.0592)Phe;0.674,0.732,0.746,0.762,0.672,0.804,0.818,0.764,(1.8801)+(-0.0101)Ala+(0.0099)Pro+(-0.0279)Val+(-0.0127)Lys+(0.0352)Leu+(0.0440)Phe;0.674,0.724,0.735,0.
721,0.742,0.759,0.737,0.740,(2.4823)+(-0.0877)Asn+(-0.0116)Arg+(0.0187)Orn+(-0.0170)Lys+(0.0235)Ile+(0.0227)Phe;0.674,0.735,0.629,0.593,0.682,0.749,0.527,0.638,(-1.7333)+(0.0253)Ser+(-0.0944)Cit+(-0.0242)Arg+(-0.0050)Pro+(0.0234)Orn+(0.0279)Ile;0.674,0.733,0.708,0.738,0.649,0.820,0.673,0.720,(0.4879)+(0.0281)Ser+(-0.0018)Gln+(-0.0112)Thr+(-0.0069)Ala+(-0.0321)Tyr+(0.0239)Orn;0.674,0.733,0.738,0.770,0.662,0.830,0.745,0.752,(2.5511)+(0.0007)Thr+(-0.0068)Ala+(-0.0343)Tyr+(-0.0302)Val+(0.0309)Orn+(0.0405)Leu;0.674,0.732,0.814,0.859,0.783,0.842,0.737,0.805,(2.3834)+(0.0055)Gln+(-0.0029)Ala+(-0.0127)Arg+(0.0001)Tyr+(-0.0051)Val+(-0.1730)Met;0.674,0.724,0.775,0.815,0.755,0.826,0.676,0.768,(2.8378)+(0.0037)Gln+(0.0078)Thr+(-0.0074)Ala+(-0.0748)Cit+(-0.0099)Arg+(-0.0318)Tyr;0.674,0.734,0.695,0.684,0.635,0.800,0.775,0.723,(-1.0918)+(0.0342)Ser+(-0.0061)Gly+(-0.0033)Gln+(-0.0114)Ala+(0.0088)Orn+(0.0332)Phe;0.674,0.728,0.762,0.764,0.732,0.807,0.786,0.772,(1.3624)+(-0.0009)Gly+(-0.0003)Thr+(-0.0095)Ala+(0.0237)Orn+(-0.0183)Lys+(0.0401)Phe;0.674,0.731,0.738,0.791,0.689,0.744,0.696,0.730,(2.1194)+(-0.0144)Arg+(-0.0554)Tyr+(-0.0241)Val+(-0.0065)Lys+(0.0236)Leu+(0.0764)Ph

e;0.674,0.729,0.797,0.822,0.760,0.836,0.780,0.800,(2.7701)+(-0.1245)Asn+(0.0039)Gln+(0.0044)Thr+(-0.0069)Ala+(0.0213)Orn+(-0.0074)Leu;0.674,0.727,0.770,0.812,0.732,0.801,0.713,0.765,(4.7060)+(-0.0978)Asn+(-0.0006)Gly+(0.0153)Thr+(-0.0055)Ala+(-0.0330)Tyr+(0.0001)Leu;0.674,0.726,0.751,0.763,0.754,0.740,0.719,0.744,(2.5265)+(-0.1141)Asn+(0.0024)Pro+(0.0243)Orn+(-0.0097)Lys+(-0.0202)Leu+(0.0529)Phe;0.674,0.726,0.798,0.832,0.774,0.848,0.725,0.795,(3.0180)+(0.0050)Gln+(-0.0066)Ala+(-0.0776)Cit+(-0.0018)Arg+(-0.0226)Tyr+(-0.0079)Lys;0.674,0.721,0.690,0.700,0.672,0.734,0.669,0.694,(2.8346)+(-0.0012)Gly+(-0.0144)Arg+(-0.0540)Tyr+(0.0242)Orn+(-0.0179)Lys+(0.0398)Ile;0.674,0.730,0.751,0.803,0.721,0.751,0.674,0.737,(3.1841)+(-0.1281)Asn+(0.0048)Gln+(0.0093)Thr+(0.0060)Pro+(-0.0466)Tyr+(-0.0095)Leu;0.674,0.727,0.758,0.771,0.720,0.806,0.766,0.766,(1.6716)+(0.0044)Thr+(-0.0115)Ala+(-0.0167)Arg+(0.0092)Pro+(-0.0131)Lys+(0.0434)Phe;0.674,0.733,0.719,0.695,0.776,0.817,0.595,0.721,(2.2412)+(0.0007)Gly+(0.0019)Gln+(-0.1135)Cit+(-0.0026)Arg+(0.0520)Orn+(-0.0233)Lys;0.674,0.724,0.726,0.756,0.674,0.799,0.705,0.733,(3.1159)+(0.0014)Thr+(-0.0093)Ala+(0.0110)Pro+(-0.0400)Tyr+(0.0261)Orn+(-0.0128)Lys;0.674,0.731,0.672,0.645,0.660,0.744,0.715,0.691,(-1.7820)+(0.0465)Ser+(-0.0083)Gly+(-0.0144)Thr+(0.0200)Orn+(-0.0262)Lys+(0.0354)Phe;0.674,0.731,0.788,0.811,0.787,0.813,0.713,0.781,(2.7024)+(-0.1168)Asn+(0.0024)Gly+(0.0073)Gln+(-0.0825)Cit+(-0.0002)Arg+(-0.0084)Lys;0.674,0.726,0.798,0.831,0.773,0.846,0.731,0.795,(3.0520)+(-0.0003)Gly+(0.0049)Gln+(-0.0066)Ala+(-0.0786)Cit+(-0.0229)Tyr+(-0.0082)Lys;0.674,0.724,0.731,0.765,0.674,0.805,0.711,0.739,(2.7305)+(0.0012)Gln+(-0.0093)Ala+(0.0109)Pro+(-0.0400)Tyr+(0.0254)Orn+(-0.0132)Lys;0.674,0.720,0.689,0.699,0.658,0.728,0.700,0.696,(2.5863)+(-0.0019)Gly+(-0.0009)Pro+(-0.0563)Tyr+(0.0218)Orn+(-0.0214)Lys+(0.0419)Ile;0.674,0.734,0.687,0.672,0.623,0.810,0.772,0.719,(0.0302)+(0.0338)Ser+(-0.

0066)Gly+(-0.0031)Gln+(-0.0126)Ala+(0.0100)Pro+(0.0083)Orn;0.674,0.723,0.695,0.751,0.675,0.716,0.577,0.680,(0.9300)+(0.0025)Gln+(0.0135)Thr+(-0.0223)Arg+(-0.0726)Tyr+(-0.0167)Lys+(0.0690)Phe;0.674,0.729,0.723,0.790,0.668,0.687,0.683,0.707,(1.1647)+(-0.0037)Gly+(0.0008)Gln+(0.0063)Thr+(-0.0746)Tyr+(-0.0159)Val+(0.0804)Phe;0.674,0.728,0.797,0.818,0.781,0.810,0.765,0.793,(4.2090)+(-0.0367)Asn+(-0.0043)Ala+(-0.0037)Arg+(-0.1324)Met+(-0.0005)Lys+(0.0055)Leu;0.674,0.724,0.729,0.776,0.659,0.748,0.736,0.729,(1.0004)+(-0.0026)Gly+(0.0022)Thr+(-0.0087)Ala+(-0.0637)Tyr+(0.0176)Orn+(0.0586)Phe;0.674,0.723,0.750,0.761,0.711,0.798,0.769,0.760,(1.6922)+(0.0045)Thr+(-0.0097)Ala+(-0.0729)Cit+(-0.0216)Val+(0.0260)Leu+(0.0522)Phe;0.674,0.731,0.729,0.747,0.674,0.852,0.706,0.745,(0.6444)+(0.0272)Ser+(-0.0021)Gln+(-0.0133)Thr+(-0.0069)Ala+(-0.0093)Val+(0.0280)Orn;0.674,0.727,0.792,0.810,0.791,0.806,0.738,0.786,(2.9286)+(-0.1152)Asn+(0.0074)Gln+(-0.0786)Cit+(0.0036)Pro+(-0.0077)Lys+(-0.0052)Leu;0.673,0.733,0.717,0.691,0.771,0.800,0.615,0.719,(1.7979)+(-0.0005)Thr+(-0.1138)Cit+(0.0542)Orn+(-0.0229)Lys+(-0.0124)Leu+(0.0470)Phe;0.673,0.723,0.707,0.772,0.665,0.672,0.649,0.690,(0.8275)+(-0.0040)Gly+(0.0005)Gln+(-0.0792)Tyr+(0.0227)Orn+(-0.0226)Leu+(0.0733)Phe;0.673,0.737,0.667,0.706,0.642,0.779,0.539,0.666,(1.1212)+(0.0223)Ser+(0.0073)Pro+(-0.0430)Tyr+(-0.0100)Val+(0.0247)Orn+(-0.0153)Lys;0.673,0.729,0.789,0.802,0.789,0.801,0.744,0.784,(2.7703)+(-0.1140)Asn+(0.0075)Gln+(-0.0796)Cit+(-0.0007)Arg+(0.0027)Pro+(-0.0094)Lys;0.673,0.726,0.641,0.645,0.631,0.742,0.581,0.650,(-0.7673)+(0.0338)Ser+(-0.0034)Gln+(0.0047)Pro+(-0.0147)Val+(-0.0203)Lys+(0.0593)Phe;0.673,0.734,0.641,0.594,0.691,0.746,0.583,0.653,(-1.6157)+(0.0308)Ser+(-0.0042)Gly+(-0.0866)Cit+(-0.0254)Arg+(0.0203)Orn+(0.0196)Ile;0.673,0.732,0.721,0.698,0.776,0.817,0.603,0.723,(2.2168)+(0.0008)Gly+(0.0020)Gln+(-0.0025)Thr+(-0.1153)Cit+(0.0530)Orn+(-0.0232)Lys;0.673,0.730,0.730

,0.770,0.666,0.807,0.705,0.737,(2.9568)+(-0.0026)Thr+(-0.0085)Ala+(0.0127)Pro+(-0.0394)Tyr+(-0.0115)Val+(0.0283)Orn;0.673,0.732,0.693,0.719,0.678,0.728,0.633,0.689,(1.4391)+(0.0030)Gln+(-0.0744)Cit+(-0.0118)Arg+(0.0005)Pro+(-0.0620)Tyr+(0.0381)Ile;0.673,0.727,0.787,0.816,0.784,0.801,0.702,0.776,(2.6327)+(-0.1258)Asn+(0.0023)Gly+(0.0072)Gln+(-0.0777)Cit+(-0.0050)Arg+(-0.0063)Leu;0.673,0.718,0.717,0.722,0.723,0.769,0.656,0.717,(0.5821)+(0.0382)Ser+(-0.0060)Gly+(-0.0110)Thr+(-0.0599)Cit+(-0.0150)Arg+(-0.0076)Leu;0.673,0.729,0.712,0.771,0.688,0.692,0.620,0.693,(1.8234)+(-0.0173)Arg+(0.0070)Pro+(-0.0684)Tyr+(-0.0070)Lys+(-0.0179)Leu+(0.0800)Phe;0.673,0.726,0.775,0.794,0.770,0.757,0.746,0.767,(1.4216)+(-0.1323)Asn+(0.0042)Gln+(0.0209)Orn+(-0.0105)Lys+(-0.0186)Leu+(0.0519)Phe;0.673,0.734,0.715,0.767,0.704,0.819,0.526,0.704,(1.5817)+(0.0270)Ser+(0.0015)Thr+(-0.0203)Arg+(-0.0292)Tyr+(-0.0066)Val+(-0.0078)Lys;0.673,0.730,0.750,0.768,0.703,0.844,0.733,0.762,(2.6845)+(0.0033)Thr+(-0.0076)Ala+(-0.0228)Arg+(-0.0332)Val+(0.0338)Orn+(0.0418)Leu;0.673,0.722,0.776,0.813,0.748,0.819,0.708,0.772,(2.8554)+(-0.0010)Gly+(0.0035)Gln+(0.0060)Thr+(-0.0077)Ala+(-0.0804)Cit+(-0.0329)Tyr;0.673,0.734,0.710,0.739,0.664,0.758,0.696,0.714,(0.4140)+(0.0385)Ser+(-0.0100)Gly+(-0.0117)Thr+(-0.0543)Tyr+(0.0232)Orn+(-0.0073)Leu;0.673,0.728,0.778,0.790,0.754,0.832,0.756,0.783,(4.0142)+(-0.0929)Asn+(0.0000)Gly+(0.0079)Thr+(-0.0070)Ala+(0.0266)Orn+(-0.0099)Lys;0.673,0.729,0.756,0.744,0.746,0.773,0.794,0.764,(1.1736)+(-0.1181)Asn+(0.0042)Gln+(0.0120)Orn+(-0.0195)Lys+(0.0237)Ile+(0.0223)Phe;0.673,0.728,0.742,0.796,0.722,0.746,0.639,0.726,(3.0188)+(-0.1192)Asn+(0.0055)Gln+(0.0139)Thr+(-0.0207)Arg+(0.0048)Pro+(-0.0509)Tyr;0.673,0.739,0.694,0.743,0.691,0.794,0.501,0.682,(0.6228)+(0.0264)Ser+(-0.0069)Thr+(-0.0258)Arg+(-0.0433)Tyr+(0.0253)Orn+(-0.0075)Leu;0.673,0.733,0.683,0.708,0.673,0.726,0.603,0.678,(1.4838)+(0.0027)Gln+(0.0049)Thr+(-0.0741)Cit

+(-0.0140)Arg+(-0.0645)Tyr+(0.0386)Ile;0.673,0.728,0.807,0.840,0.777,0.842,0.761,0.805,(2.9641)+(-0.1102)Asn+(0.0054)Gln+(0.0122)Thr+(-0.0063)Ala+(-0.0145)Arg+(-0.0061)Lys;0.673,0.725,0.772,0.777,0.762,0.844,0.728,0.778,(3.6751)+(0.0026)Gly+(-0.0086)Ala+(-0.0867)Cit+(0.0058)Arg+(-0.0115)Lys+(0.0105)Leu;0.673,0.730,0.804,0.848,0.784,0.817,0.723,0.793,(3.8025)+(-0.1364)Asn+(-0.0012)Gly+(0.0062)Gln+(0.0145)Thr+(-0.0184)Arg+(-0.0146)Val;0.673,0.727,0.770,0.801,0.764,0.836,0.656,0.764,(4.5955)+(0.0129)Thr+(-0.0066)Ala+(-0.0744)Cit+(-0.0253)Tyr+(-0.0010)Val+(-0.0085)Lys;0.673,0.735,0.620,0.662,0.569,0.660,0.588,0.620,(-2.6029)+(0.0313)Ser+(-0.0170)Thr+(0.0044)Pro+(-0.0761)Tyr+(0.0089)Orn+(0.0531)Phe;0.673,0.730,0.744,0.771,0.739,0.751,0.675,0.734,(3.6543)+(-0.0086)Arg+(0.0092)Pro+(-0.0151)Tyr+(-0.1957)Met+(-0.0007)Lys+(-0.0007)Leu;0.673,0.728,0.713,0.740,0.673,0.787,0.672,0.718,(2.9436)+(0.0003)Gln+(-0.0388)Tyr+(-0.0300)Val+(0.0354)Orn+(-0.0145)Lys+(0.0406)Leu;0.673,0.726,0.728,0.759,0.675,0.801,0.706,0.735,(3.1726)+(-0.0091)Ala+(0.0113)Pro+(-0.0392)Tyr+(0.0271)Orn+(-0.0118)Lys+(-0.0023)Leu;0.673,0.725,0.726,0.765,0.669,0.766,0.713,0.729,(3.0133)+(-0.0043)Gly+(0.0000)Gln+(-0.0504)Tyr+(-0.0307)Val+(0.0330)Orn+(0.0342)Leu;0.673,0.726,0.730,0.767,0.677,0.778,0.710,0.733,(1.3617)+(0.0372)Ser+(-0.0098)Gly+(-0.0002)Gln+(-0.0055)Thr+(-0.0431)Tyr+(-0.0082)Val;0.673,0.723,0.656,0.656,0.660,0.747,0.584,0.662,(-1.9672)+(0.0382)Ser+(-0.0094)Thr+(-0.0212)Arg+(0.0029)Pro+(-0.0208)Lys+(0.0423)Phe;0.673,0.722,0.779,0.810,0.749,0.817,0.730,0.777,(2.5798)+(-0.0002)Gly+(0.0039)Gln+(-0.0080)Ala+(-0.0817)Cit+(-0.0298)Tyr+(0.0044)Leu;0.673,0.735,0.758,0.791,0.762,0.783,0.646,0.746,(5.0192)+(-0.0760)Asn+(0.0030)Gly+(-0.0665)Cit+(-0.0251)Tyr+(-0.0031)Lys+(0.0009)Leu;0.673,0.723,0.776,0.817,0.748,0.829,0.691,0.771,(2.9379)+(0.0033)Gln+(0.0057)Thr+(-0.0071)Ala+(-0.0784)Cit+(-0.0296)Tyr+(-0.0029)Val;0.673,0.722,0.768,0.794,0.772,0.

771,0.690,0.757,(3.8640)+(-0.0416)Asn+(0.0016)Gly+(-0.0052)Arg+(-0.1598)Met+(-0.0003)Lys+(0.0020)Leu;0.673,0.726,0.770,0.796,0.779,0.804,0.661,0.760,(5.7782)+(-0.1086)Asn+(0.0163)Thr+(-0.0565)Cit+(-0.0040)Arg+(-0.0106)Val+(-0.0022)Lys;0.673,0.739,0.725,0.723,0.698,0.811,0.729,0.740,(0.6288)+(0.0394)Ser+(-0.0090)Gly+(-0.0103)Thr+(-0.0101)Val+(0.0290)Orn+(-0.0169)Lys;0.673,0.731,0.670,0.699,0.628,0.720,0.649,0.674,(1.0062)+(0.0375)Ser+(-0.0105)Gly+(-0.0013)Gln+(0.0076)Pro+(-0.0641)Tyr+(-0.0080)Leu;0.673,0.730,0.800,0.846,0.780,0.819,0.706,0.788,(3.6952)+(-0.1370)Asn+(0.0060)Gln+(0.0141)Thr+(-0.0183)Arg+(-0.0144)Val+(-0.0000)Lys;0.673,0.726,0.759,0.763,0.748,0.780,0.757,0.762,(1.5770)+(-0.1057)Asn+(0.0013)Gly+(0.0053)Gln+(-0.0147)Arg+(-0.0146)Lys+(0.0328)Ile;0.673,0.724,0.706,0.766,0.664,0.693,0.643,0.691,(0.8892)+(0.0016)Gln+(0.0058)Pro+(-0.0716)Tyr+(-0.0137)Lys+(-0.0152)Leu+(0.0760)Phe;0.673,0.729,0.706,0.700,0.643,0.824,0.766,0.733,(0.4238)+(0.0337)Ser+(-0.0070)Gly+(-0.0024)Gln+(-0.0117)Ala+(0.0114)Pro+(-0.0067)Leu;0.673,0.724,0.745,0.757,0.672,0.810,0.816,0.764,(0.8429)+(-0.0016)Gly+(-0.0093)Ala+(-0.0322)Val+(0.0255)Orn+(0.0340)Leu+(0.0382)Phe;0.673,0.723,0.692,0.679,0.706,0.762,0.645,0.698,(0.6915)+(-0.0000)Gly+(-0.0995)Cit+(-0.0298)Val+(0.0469)Orn+(0.0217)Leu+(0.0316)Phe;0.673,0.720,0.753,0.782,0.736,0.807,0.677,0.7

50,(3.7050)+(0.0002)Gly+(0.0087)Thr+(-0.0081)Ala+(-0.0792)Cit+(-0.0314)Tyr+(0.0052)Leu;0.673,0.716,0.670,0.683,0.680,0.736,0.565,0.666,(-0.8297)+(0.0300)Ser+(-0.0014)Gln+(-0.0565)Cit+(-0.0224)Arg+(-0.0157)Val+(0.0612)Phe;0.673,0.726,0.744,0.795,0.728,0.764,0.625,0.728,(2.9635)+(-0.1179)Asn+(0.0051)Gln+(0.0116)Thr+(-0.0216)Arg+(-0.0494)Tyr+(0.0214)Orn;0.673,0.732,0.726,0.705,0.780,0.817,0.608,0.727,(2.3102)+(0.0021)Gln+(-0.1131)Cit+(-0.0026)Arg+(-0.0009)Pro+(0.0526)Orn+(-0.0232)Lys;0.673,0.728,0.722,0.763,0.673,0.721,0.715,0.718,(2.1388)+(-0.1280)

Asn+(0.0041)Gln+(0.0087)Thr+(0.0005)Pro+(-0.0580)Tyr+(0.0312)Ile;0.673,0.721,0.677,0.723,0.661,0.666,0.599,0.662,(0.5058)+(0.0021)Gln+(0.0023)Thr+(-0.0833)Cit+(0.0035)Pro+(-0.0802)Tyr+(0.0594)Phe;0.672,0.727,0.812,0.841,0.770,0.840,0.799,0.813,(2.8046)+(-0.1263)Asn+(-0.0006)Gly+(0.0047)Gln+(0.0083)Thr+(-0.0067)Ala+(-0.0043)Leu;0.672,0.721,0.767,0.802,0.737,0.815,0.702,0.764,(2.6333)+(0.0032)Gln+(0.0055)Thr+(-0.0083)Ala+(-0.0835)Cit+(-0.0330)Tyr+(0.0045)Leu;0.672,0.719,0.657,0.647,0.678,0.721,0.590,0.659,(-1.8598)+(0.0362)Ser+(-0.0007)Gln+(-0.0164)Thr+(-0.0747)Cit+(-0.0153)Arg+(0.0362)Phe;0.672,0.734,0.708,0.725,0.671,0.770,0.691,0.714,(1.0825)+(0.0418)Ser+(-0.0098)Gly+(-0.0017)Thr+(-0.0432)Tyr+(-0.0157)Lys+(0.0039)Leu;0.672,0.722,0.720,0.758,0.686,0.759,0.661,0.716,(2.9264)+(0.0020)Gln+(-0.0646)Cit+(0.0072)Pro+(-0.0479)Tyr+(-0.0225)Val+(0.0258)Leu;0.672,0.730,0.689,0.719,0.638,0.731,0.690,0.694,(0.5034)+(0.0405)Ser+(-0.0100)Gly+(-0.0104)Thr+(0.0083)Pro+(-0.0577)Tyr+(-0.0079)Leu;0.672,0.714,0.670,0.672,0.680,0.720,0.610,0.670,(-1.6363)+(0.0340)Ser+(-0.0010)Gln+(-0.0181)Thr+(-0.0818)Cit+(-0.0154)Leu+(0.0530)Phe;0.672,0.727,0.637,0.609,0.658,0.710,0.614,0.648,(-2.5285)+(0.0371)Ser+(-0.0192)Thr+(-0.0770)Cit+(-0.0163)Arg+(0.0289)Ile+(0.0174)Phe;0.672,0.724,0.783,0.816,0.754,0.824,0.723,0.779,(2.5926)+(0.0043)Gln+(-0.0077)Ala+(-0.0771)Cit+(-0.0062)Arg+(-0.0288)Tyr+(0.0040)Leu;0.672,0.721,0.742,0.785,0.709,0.737,0.703,0.734,(2.7161)+(-0.1170)Asn+(-0.0012)Gly+(0.0044)Gln+(0.0039)Pro+(-0.0525)Tyr+(0.0202)Orn;0.672,0.721,0.730,0.739,0.651,0.815,0.807,0.753,(2.0644)+(-0.0022)Gly+(-0.0106)Ala+(0.0095)Pro+(-0.0328)Val+(0.0245)Orn+(0.0383)Leu;0.672,0.718,0.671,0.683,0.642,0.725,0.662,0.678,(2.2042)+(0.0037)Thr+(-0.0013)Pro+(-0.0568)Tyr+(0.0186)Orn+(-0.0229)Lys+(0.0442)Ile;0.672,0.729,0.706,0.750,0.701,0.729,0.587,0.692,(4.1914)+(-0.0978)Asn+(0.0123)Thr+(-0.0186)Arg+(0.0046)Pro+(-0.0541)Tyr+(0.0241)Orn;0.672,0.727

,0.809,0.845,0.778,0.838,0.756,0.804,(2.8892)+(-0.1166)Asn+(0.0054)Gl
n+(0.0111)Thr+(-0.0062)Ala+(-0.0167)Arg+(-0.0041)Leu;0.672,0.718,0.70
3,0.700,0.720,0.760,0.634,0.703,(0.7720)+(0.0013)Gly+(-0.0091)Thr+(-0
.1021)Cit+(-0.0184)Val+(0.0500)Orn+(0.0432)Phe;0.672,0.732,0.738,0.73
7,0.768,0.725,0.690,0.730,(2.8765)+(-0.1266)Asn+(0.0109)Thr+(-0.0733)
Cit+(-0.0054)Arg+(-0.0001)Pro+(0.0402)Phe;0.672,0.725,0.713,0.789,0.6
80,0.693,0.596,0.689,(0.6581)+(0.0026)Gln+(-0.0252)Arg+(0.0068)Pro+(-
0.0734)Tyr+(-0.0222)Leu+(0.0786)Phe;0.672,0.724,0.794,0.838,0.763,0.8
04,0.737,0.786,(3.5375)+(-0.1256)Asn+(0.0061)Gln+(-0.0156)Arg+(0.0075
)Pro+(-0.0165)Val+(0.0023)Lys;0.672,0.725,0.722,0.737,0.639,0.799,0.7
99,0.743,(0.6807)+(-0.0113)Ala+(0.0085)Pro+(-0.0318)Val+(0.0208)Orn+(
0.0321)Leu+(0.0338)Phe;0.672,0.732,0.757,0.789,0.760,0.780,0.653,0.74
6,(5.0271)+(-0.0787)Asn+(0.0030)Gly+(-0.0700)Cit+(0.0049)Arg+(-0.0249
)Tyr+(-0.0037)Lys;0.672,0.729,0.778,0.825,0.749,0.772,0.715,0.765,(3.
3008)+(-0.1283)Asn+(-0.0020)Gly+(0.0054)Gln+(0.0119)Thr+(-0.0439)Tyr+
(-0.0070)Leu;0.672,0.720,0.790,0.827,0.759,0.833,0.727,0.786,(2.9121)
+(-0.0007)Gly+(0.0041)Gln+(-0.0067)Ala+(-0.0760)Cit+(-0.0270)Tyr+(-0.
0028)Val;0.672,0.722,0.715,0.721,0.641,0.813,0.782,0.739,(2.3365)+(-0
.0016)Gln+(-0.0105)Ala+(0.0098)Pro+(-0.0333)Val+(0.0255)Orn+(0.0399)L
eu;0.672,0.738,0.727,0.746,0.652,0.810,0.774,0.746,(-2.2523)+(0.0298)
Ser+(-0.0189)Thr+(-0.0095)Ala+(0.0170)Orn+(-0.0110)Leu+(0.0481)Phe;0.
672,0.725,0.634,0.602,0.660,0.722,0.605,0.647,(-1.6230)+(0.0371)Ser+(
-0.0011)Gln+(-0.0176)Thr+(-0.0738)Cit+(-0.0146)Arg+(0.0342)Ile;0.672,
0.722,0.789,0.826,0.763,0.824,0.724,0.784,(2.7555)+(-0.0005)Gly+(0.00
45)Gln+(-0.0071)Ala+(-0.0745)Cit+(-0.0067)Arg+(-0.0279)Tyr;0.672,0.72
0,0.684,0.696,0.669,0.732,0.651,0.687,(2.6157)+(-0.0150)Arg+(-0.0005)
Pro+(-0.0527)Tyr+(0.0233)Orn+(-0.0181)Lys+(0.0411)Ile;0.672,0.714,0.6
87,0.677,0.698,0.743,0.649,0.692,(-0.3884)+(0.0399)Ser+(-0.0052)Gly+(

-0.0152)Thr+(-0.0649)Cit+(-0.0152)Arg+(0.0032)Pro;0.672,0.736,0.738,0.780,0.687,0.862,0.643,0.743,(1.3319)+(0.0259)Ser+(-0.0002)Gln+(-0.0053)Ala+(-0.0219)Tyr+(-0.0033)Val+(-0.0107)Lys;0.672,0.724,0.764,0.775,0.734,0.801,0.774,0.771,(1.3405)+(-0.0011)Gly+(-0.0090)Ala+(0.0248)Orn+(-0.0168)Lys+(-0.0074)Leu+(0.0462)Phe;0.672,0.724,0.758,0.768,0.776,0.771,0.684,0.750,(4.2397)+(-0.0664)Cit+(0.0055)Arg+(-0.0053)Tyr+(-0.1733)Met+(-0.0042)Lys+(0.0075)Leu;0.672,0.718,0.675,0.689,0.644,0.725,0.666,0.681,(1.8745)+(0.0010)Gln+(0.0026)Thr+(-0.0577)Tyr+(0.0172)Orn+(-0.0231)Lys+(0.0424)Ile;0.672,0.738,0.735,0.774,0.681,0.856,0.660,0.743,(1.0137)+(0.0278)Ser+(-0.0002)Gln+(-0.0027)Thr+(-0.0056)Ala+(-0.0226)Tyr+(-0.0114)Lys;0.672,0.727,0.644,0.617,0.664,0.728,0.613,0.656,(-1.8681)+(0.0358)Ser+(-0.0177)Thr+(-0.0754)Cit+(-0.0151)Arg+(-0.0018)Pro+(0.0358)Ile;0.672,0.727,0.794,0.816,0.775,0.805,0.766,0.790,(4.2413)+(-0.0398)Asn+(-0.0042)Ala+(-0.0060)Tyr+(-0.1245)Met+(-0.0010)Lys+(0.0059)Leu;0.672,0.709,0.698,0.696,0.675,0.757,0.711,0.710,(0.5917)+(0.0355)Ser+(-0.0061)Gly+(-0.0117)Thr+(-0.0589)Cit+(-0.0246)Val+(0.0290)Leu;0.672,0.733,0.728,0.705,0.781,0.817,0.616,0.730,(2.2940)+(0.0022)Gln+(-0.0020)Thr+(-0.1147)Cit+(-0.0008)Pro+(0.0533)Orn+(-0.0232)Lys;0.672,0.728,0.745,0.806,0.706,0.732,0.674,0.730,(2.1392)+(-0.0009)Gly+(-0.0151)Arg+(-0.0586)Tyr+(-0.0134)Val+(-0.0044)Lys+(0.0848)Phe;0.672,0.726,0.769,0.799,0.764,0.835,0.653,0.763,(4.6003)+(0.0136)Thr+(-0.0067)Ala+(-0.0737)Cit+(-0.0024)Arg+(-0.0260)Tyr+(-0.0085)Lys;0.672,0.725,0.789,0.827,0.780,0.793,0.708,0.777,(4.7904)+(-0.0590)Asn+(0.0013)Gly+(-0.0065)Arg+(-0.0094)Val+(-0.1215)Met+(0.0063)Lys;0.672,0.722,0.784,0.802,0.748,0.825,0.783,0.789,(4.4394)+(-0.0739)Asn+(-0.0088)Ala+(-0.0078)Arg+(0.0114)Pro+(-0.0024)Lys+(-0.0043)Leu;0.672,0.725,0.761,0.764,0.736,0.847,0.746,0.773,(4.0197)+(0.0126)Thr+(-0.0081)Ala+(-0.0698)Cit+(-0.0231)Val+(-0.0135)Lys+(0.0432)Leu;0.672,0.735,0.7

21,0.774,0.707,0.821,0.537,0.710,(1.3825)+(0.0267)Ser+(0.0006)Gln+(-0.0204)Arg+(-0.0290)Tyr+(-0.0066)Val+(-0.0077)Lys;0.672,0.729,0.707,0.712,0.633,0.846,0.749,0.735,(0.7656)+(0.0289)Ser+(-0.0025)Gln+(-0.0076)Thr+(-0.0074)Ala+(-0.0287)Val+(0.0440)Leu;0.672,0.723,0.723,0.774,0.648,0.753,0.720,0.724,(0.5572)+(0.0000)Gln+(-0.0001)Thr+(-0.0088)Ala+(-0.0607)Tyr+(0.0171)Orn+(0.0591)Phe;0.672,0.726,0.722,0.708,0.723,0.751,0.736,0.729,(1.9843)+(-0.1022)Asn+(0.0021)Gly+(0.0150)Orn+(-0.0188)Lys+(0.0252)Ile+(0.0243)Phe;0.672,0.731,0.741,0.757,0.767,0.781,0.613,0.730,(4.5781)+(-0.1029)Asn+(0.0032)Gly+(0.0128)Thr+(-0.0761)Cit+(0.0006)Arg+(-0.0092)Lys;0.672,0.730,0.742,0.761,0.768,0.782,0.613,0.731,(4.6285)+(-0.1027)Asn+(0.0031)Gly+(0.0129)Thr+(-0.0751)Cit+(-0.0086)Lys+(-0.0012)Leu;0.672,0.726,0.690,0.715,0.685,0.807,0.550,0.689,(1.0114)+(0.0298)Ser+(-0.0008)Gln+(-0.0232)Arg+(0.0071)Pro+(-0.0116)Val+(-0.0110)Lys;0.672,0.722,0.758,0.791,0.738,0.772,0.702,0.751,(1.7458)+(-0.0018)Gly+(0.0036)Gln+(-0.0155)Tyr+(-0.2181)Met+(0.0208)Orn+(-0.0012)Leu;0.672,0.717,0.665,0.677,0.695,0.729,0.527,0.657,(-1.2352)+(0.0295)Ser+(-0.0010)Gln+(-0.0688)Cit+(-0.0231)Arg+(-0.0188)Leu+(0.0538)Phe;0.672,0.733,0.716,0.776,0.698,0.819,0.524,0.704,(1.3041)+(0.0254)Ser+(0.0003)Gln+(-0.0009)Thr+(-0.0237)Arg+(-0.0329)Tyr+(-0.0084)Val;0.672,0.732,0.720,0.696,0.769,0.802,0.620,0.722,(1.2458)+(0.0016)Gln+(-0.1160)Cit+(0.0524)Orn+(-0.0243)Lys+(-0.0119)Leu+(0.0460)Phe;0.672,0.726,0.701,0.763,0.690,0.706,0.556,0.679,(1.7120)+(0.0155)Thr+(-0.0222)Arg+(-0.0717)Tyr+(-0.0113)Lys+(-0.0145)Leu+(0.0855)Phe;0.672,0.721,0.723,0.766,0.695,0.776,0.629,0.716,(4.0129)+(-0.0033)Gly+(-0.0219)Arg+(0.0078)Pro+(-0.0487)Tyr+(-0.0151)Val+(0.0371)Orn;0.672,0.722,0.763,0.797,0.752,0.817,0.658,0.756,(4.1153)+(-0.0001)Gly+(0.0109)Thr+(-0.0072)Ala+(-0.0713)Cit+(-0.0069)Arg+(-0.0302)Tyr;0.672,0.715,0.703,0.700,0.709,0.755,0.658,0.705,(-0.2841)+(0.0387)Ser+(-0.0055)Gly+(0.00

06)Gln+(-0.0138)Thr+(-0.0650)Cit+(-0.0151)Arg;0.672,0.728,0.800,0.820,0.797,0.808,0.745,0.792,(2.9224)+(-0.1131)Asn+(0.0077)Gln+(-0.0777)Cit+(-0.0013)Arg+(-0.0075)Lys+(-0.0029)Leu;0.672,0.726,0.770,0.812,0.736,0.807,0.705,0.765,(4.9573)+(-0.0909)Asn+(-0.0008)Gly+(0.0169)Thr+(-0.0052)Ala+(-0.0310)Tyr+(-0.0049)Lys;0.672,0.730,0.632,0.674,0.604,0.747,0.495,0.630,(1.5266)+(0.0214)Ser+(-0.0033)Gln+(0.0079)Pro+(-0.0508)Tyr+(-0.0134)Val+(0.0228)Orn;0.672,0.728,0.769,0.793,0.772,0.781,0.691,0.759,(2.1670)+(-0.1329)Asn+(0.0031)Gly+(0.0068)Gln+(-0.0819)Cit+(-0.0054)Arg+(0.0023)Pro;0.672,0.725,0.770,0.773,0.754,0.785,0.785,0.774,(1.6586)+(-0.1022)Asn+(0.0057)Gln+(-0.0142)Arg+(-0.0027)Pro+(-0.0150)Lys+(0.0357)Ile;0.672,0.726,0.731,0.725,0.647,0.815,0.860,0.762,(0.0968)+(-0.0002)Gly+(-0.0007)Gln+(-0.0137)Ala+(0.0024)Orn+(0.0414)Ile+(0.0090)Phe;0.672,0.726,0.766,0.772,0.731,0.809,0.794,0.776,(1.0702)+(-0.0013)Gly+(0.0011)Gln+(-0.0096)Ala+(0.0226)Orn+(-0.0190)Lys+(0.0389)Phe;0.672,0.725,0.623,0.650,0.580,0.732,0.560,0.631,(1.4205)+(0.0257)Ser+(-0.0036)Gln+(0.0077)Pro+(-0.0478)Tyr+(-0.0289)Val+(0.0359)Leu;0.672,0.724,0.749,0.774,0.711,0.812,0.714,0.753,(3.8112)+(0.0101)Thr+(-0.0074)Ala+(-0.0676)Cit+(-0.0301)Tyr+(-0.0218)Val+(0.0372)Leu;0.672,0.721,0.772,0.802,0.724,0.821,0.760,0.777,(2.9043)+(0.0032)Gln+(-0.0072)Ala+(-0.0701)Cit+(-0.0266)Tyr+(-0.0195)Val+(0.0332)Leu;0.672,0.728,0.720,0.725,0.708,0.778,0.689,0.725,(1.7088)+(-0.0215)Arg+(-0.0337)Val+(0.0345)Orn+(-0.0142)Lys+(0.0344)Leu+(0.0401)Phe;0.672,0.738,0.742,0.784,0.688,0.862,0.656,0.747,(1.2083)+(0.0266)Ser+(-0.0023)Thr+(-0.0052)Ala+(-0.0209)Tyr+(-0.0032)Val+(-0.0102)Lys;0.672,0.734,0.696,0.725,0.696,0.768,0.570,0.690,(-2.0766)+(0.0321)Ser+(-0.0158)Thr+(-0.0307)Arg+(0.0184)Orn+(-0.0220)Leu+(0.0483)Phe;0.672,0.724,0.657,0.658,0.663,0.750,0.577,0.662,(-1.5804)+(0.0388)Ser+(-0.0013)Gln+(-0.0074)Thr+(-0.0202)Arg+(-0.0202)Lys+(0.0464)Phe;0.671,0.731,0.673,0.691,0.

667,0.716,0.608,0.671,(2.1965
)+(0.0015)Gly+(-0.0733)Cit+(-0.0083)Arg+(0.0010)Pro+(-0.0591)Tyr+(0.0398)Ile;0.671,0.731,0.669,0.687,0.666,0.712,0.594,0.665,(2.3444)+(0.0070)Thr+(-0.0713)Cit+(-0.0118)Arg+(0.0007)Pro+(-0.0643)Tyr+(0.0389)Ile;0.671,0.732,0.691,0.703,0.637,0.798,0.694,0.708,(-1.1897)+(0.0262)Ser+(-0.0038)Gln+(-0.0105)Ala+(0.0124)Orn+(-0.0121)Leu+(0.0489)Phe;0.671,0.721,0.739,0.772,0.654,0.802,0.780,0.752,(3.5022)+(-0.0019)Gly+(-0.0087)Ala+(0.0128)Pro+(-0.0357)Tyr+(-0.0264)Val+(0.0358)Leu;0.671,0.723,0.677,0.727,0.661,0.693,0.565,0.662,(1.6680)+(0.0142)Thr+(-0.0205)Arg+(0.0040)Pro+(-0.0754)Tyr+(-0.0162)Lys+(0.0686)Phe;0.671,0.728,0.795,0.829,0.763,0.840,0.736,0.792,(5.1376)+(-0.1093)Asn+(-0.0001)Gly+(0.0146)Thr+(-0.0043)Ala+(-0.0104)Val+(-0.0014)Lys;0.671,0.726,0.781,0.807,0.768,0.839,0.697,0.778,(4.3707)+(0.0014)Gly+(-0.0065)Ala+(-0.0747)Cit+(0.0025)Arg+(-0.0175)Tyr+(-0.0059)Lys;0.671,0.735,0.718,0.744,0.677,0.778,0.694,0.723,(1.1346)+(0.0408)Ser+(-0.0100)Gly+(0.0005)Gln+(-0.0019)Thr+(-0.0420)Tyr+(-0.0145)Lys;0.671,0.724,0.750,0.756,0.721,0.820,0.742,0.760,(2.8546)+(-0.0007)Gly+(-0.0104)Ala+(-0.0162)Arg+(0.0092)Pro+(0.0261)Orn+(-0.0121)Lys;0.671,0.718,0.685,0.698,0.654,0.732,0.683,0.692,(1.8272)+(0.0012)Gln+(-0.0013)Pro+(-0.0553)Tyr+(0.0183)Orn+(-0.0227)Lys+(0.0437)Ile;0.671,0.714,0.726,0.739,0.726,0.785,0.651,0.725,(1.2569)+(0.0335)Ser+(-0.0071)Gly+(0.0006)Gln+(-0.0493)Cit+(-0.0204)Arg+(-0.0109)Val;0.671,0.729,0.728,0.740,0.661,0.801,0.784,0.746,(-1.6134)+(0.0299)Ser+(-0.0071)Gly+(-0.0105)Ala+(0.0097)Orn+(-0.0129)Leu+(0.0412)Phe;0.671,0.725,0.758,0.781,0.770,0.739,0.685,0.744,(2.6420)+(-0.1116)Asn+(-0.0184)Arg+(0.0028)Pro+(0.0254)Orn+(-0.0256)Leu+(0.0546)Phe;0.671,0.732,0.684,0.712,0.648,0.740,0.647,0.687,(1.0683)+(0.0358)Ser+(-0.0105)Gly+(-0.0018)Gln+(-0.0610)Tyr+(0.0206)Orn+(-0.0075)Leu;0.671,0.720,0.659,0.668,0.644,0.782,0.577,0.668,(0.8471)+(0.

0287)Ser+(-0.0024)Gln+(-0.0272)Arg+(0.0061)Pro+(-0.0323)Val+(0.0347)L
eu;0.671,0.729,0.804,0.841,0.776,0.821,0.756,0.798,(3.6811)+(-0.1429)
Asn+(-0.0011)Gly+(0.0054)Gln+(0.0118)Thr+(-0.0139)Val+(-0.0031)Lys;0.
671,0.726,0.693,0.724,0.657,0.702,0.676,0.690,(3.1218)+(-0.1089)Asn+(
0.0086)Thr+(0.0009)Pro+(-0.0598)Tyr+(0.0138)Orn+(0.0291)Ile;0.671,0.7
26,0.754,0.747,0.739,0.769,0.792,0.762,(0.9651)+(-0.1214)Asn+(0.0015)
Gly+(0.0044)Gln+(-0.0182)Lys+(0.0271)Ile+(0.0252)Phe;0.671,0.728,0.79
8,0.841,0.770,0.808,0.736,0.789,(2.2640)+(-0.0015)Gly+(0.0050)Gln+(-0
.0041)Tyr+(-0.0066)Val+(-0.1989)Met+(-0.0008)Lys;0.671,0.729,0.766,0.
813,0.738,0.804,0.673,0.757,(4.8877)+(-0.0892)Asn+(0.0179)Thr+(-0.005
2)Ala+(-0.0130)Arg+(-0.0323)Tyr+(0.0003)Leu;0.671,0.728,0.811,0.854,0
.759,0.835,0.790,0.809,(3.0786)+(-0.0976)Asn+(0.0058)Gln+(-0.0050)Ala
+(-0.0261)Tyr+(-0.0046)Lys+(0.0015)Leu;0.671,0.725,0.782,0.811,0.769,
0.838,0.691,0.777,(4.4433)+(0.0013)Gly+(-0.0062)Ala+(-0.0710)Cit+(-0.
0171)Tyr+(-0.0013)Val+(-0.0047)Lys;0.671,0.712,0.668,0.670,0.674,0.71
4,0.618,0.669,(-1.9518)+(0.0336)Ser+(-0.0205)Thr+(-0.0831)Cit+(0.0040
)Pro+(-0.0176)Leu+(0.0498)Phe;0.671,0.726,0.809,0.836,0.772,0.848,0.7
90,0.811,(2.9430)+(-0.1160)Asn+(0.0049)Gln+(0.0101)Thr+(-0.0065)Ala+(
-0.0080)Lys+(-0.0003)Leu;0.671,0.725,0.747,0.755,0.718,0.819,0.732,0.
756,(2.7488)+(0.0004)Thr+(-0.0105)Ala+(-0.0167)Arg+(0.0092)Pro+(0.025
7)Orn+(-0.0122)Lys;0.671,0.725,0.661,0.653,0.637,0.794,0.640,0.681,(0
.8341)+(0.0330)Ser+(-0.0023)Gln+(-0.0032)Thr+(-0.0305)Val+(-0.0188)Ly
s+(0.0472)Leu;0.671,0.730,0.750,0.800,0.722,0.831,0.618,0.743,(3.6118
)+(0.0060)Thr+(-0.0053)Ala+(-0.0231)Arg+(-0.0330)Tyr+(-0.0105)Val+(0.
0363)Orn;0.671,0.725,0.792,0.832,0.770,0.835,0.699,0.784,(5.3562)+(-0
.1023)Asn+(0.0000)Gly+(0.0168)Thr+(-0.0041)Ala+(-0.0122)Arg+(-0.0107)
Val;0.671,0.724,0.770,0.820,0.735,0.754,0.724,0.758,(3.1415)+(-0.1119
)Asn+(-0.0012)Gly+(0.0055)Gln+(0.0066)Pro+(-0.0436)Tyr+(-0.0097)Leu;0

.671,0.727,0.765,0.793,0.771,0.779,0.668,0.753,(2.3433)+(-0.1424)Asn+(0.0025)Gly+(0.0066)Gln+(0.0078)Thr+(-0.0807)Cit+(-0.0077)Arg;0.671,0.725,0.786,0.810,0.770,0.811,0.737,0.782,(3.4822)+(0.0010)Gly+(-0.0045)Ala+(-0.0058)Arg+(-0.1670)Met+(-0.0020)Lys+(0.0082)Leu;0.671,0.724,0.647,0.645,0.665,0.754,0.538,0.650,(-1.7471)+(0.0336)Ser+(-0.0255)Arg+(0.0010)Pro+(0.0148)Orn+(-0.0248)Lys+(0.0385)Phe;0.671,0.718,0.699,0.702,0.640,0.741,0.781,0.716,(-1.4076)+(0.0382)Ser+(-0.0077)Gly+(-0.0162)Thr+(-0.0289)Val+(0.0254)Leu+(0.0352)Phe;0.671,0.720,0.707,0.732,0.673,0.749,0.682,0.709,(1.7379)+(0.0031)Gln+(-0.0162)Arg+(-0.0003)Pro+(-0.0516)Tyr+(-0.0172)Lys+(0.0453)Ile;0.671,0.720,0.708,0.703,0.723,0.760,0.650,0.709,(1.1095)+(-0.0004)Gln+(-0.0080)Thr+(-0.1002)Cit+(-0.0185)Val+(0.0507)Orn+(0.0422)Phe;0.671,0.727,0.812,0.836,0.775,0.850,0.799,0.815,(3.0086)+(-0.1150)Asn+(-0.0009)Gly+(0.0050)Gln+(0.0105)Thr+(-0.0066)Ala+(-0.0083)Lys;0.671,0.723,0.787,0.812,0.785,0.793,0.724,0.778,(2.8010)+(-0.1228)Asn+(0.0073)Gln+(-0.0741)Cit+(-0.0063)Arg+(0.0038)Pro+(-0.0098)Leu;0.671,0.723,0.741,0.798,0.699,0.712,0.700,0.727,(1.0421)+(-0.0029)Gly+(0.0028)Gln+(-0.0687)Tyr+(-0.0134)Lys+(-0.0125)Leu+(0.0761)Phe;0.671,0.717,0.707,0.701,0.722,0.759,0.652,0.709,(0.9976)+(-0.0087)Thr+(-0.1000)Cit+(0.0012)Pro+(-0.0188)Val+(0.0497)Orn+(0.0407)Phe;0.671,0.730,0.658,0.624,0.709,0.746,0.578,0.664,(-1.4551)+(0.0309)Ser+(-0.0047)Gly+(-0.0877)Cit+(-0.0249)Arg+(0.0247)Orn+(0.0144)Phe;0.671,0.725,0.720,0.763,0.718,0.735,0.600,0.704,(4.3722)+(-0.0960)Asn+(-0.0009)Gly+(0.0134)Thr+(-0.0181)Arg+(-0.0504)Tyr+(0.0265)Orn;0.671,0.726,0.824,0.854,0.787,0.844,0.803,0.822,(2.7701)+(-0.0969)Asn+(-0.0002)Gly+(0.0060)Gln+(-0.0059)Ala+(-0.0116)Arg+(-0.0043)Lys;0.671,0.722,0.771,0.780,0.774,0.773,0.736,0.766,(1.3374)+(-0.1165)Asn+(0.0051)Gln+(-0.0161)Arg+(0.0189)Orn+(-0.0138)Lys+(0.0339)Phe;0.671,0.718,0.688,0.736,0.671,0.673,0.605,0.671,(0.5010)+(-0.0005)Gly+(0.0

024)Gln+(0.0031)Thr+(-0.0827)Cit+(-0.0777)Tyr+(0.0618)Phe;0.670,0.721,0.769,0.801,0.766,0.768,0.688,0.756,(4.1440)+(-0.0446)Asn+(0.0013)Gly+(-0.0054)Arg+(-0.0092)Tyr+(-0.1381)Met+(0.0008)Lys;0.670,0.726,0.806,0.840,0.785,0.823,0.748,0.799,(5.1306)+(-0.0493)Asn+(-0.0026)Ala+(-0.0032)Arg+(-0.0022)Tyr+(-0.0062)Val+(-0.0917)Met;0.670,0.722,0.793,0.832,0.767,0.835,0.715,0.787,(2.8912)+(0.0044)Gln+(-0.0065)Ala+(-0.0713)Cit+(-0.0071)Arg+(-0.0253)Tyr+(-0.0030)Val;0.670,0.718,0.684,0.705,0.644,0.730,0.681,0.690,(1.7937)+(0.0016)Gln+(0.0048)Thr+(-0.0012)Pro+(-0.0562)Tyr+(-0.0221)Lys+(0.0476)Ile;0.670,0.730,0.689,0.760,0.670,0.680,0.545,0.664,(1.3223)+(0.0101)Thr+(-0.0275)Arg+(0.0067)Pro+(-0.0785)Tyr+(-0.0227)Leu+(0.0827)Phe;0.670,0.715,0.752,0.779,0.710,0.836,0.704,0.757,(2.6708)+(0.0009)Gln+(-0.0092)Ala+(-0.0236)Arg+(0.0107)Pro+(-0.0137)Val+(0.0292)Orn;0.670,0.724,0.693,0.727,0.656,0.698,0.681,0.690,(3.1748)+(-0.1080)Asn+(0.0004)Gly+(0.0105)Thr+(0.0011)Pro+(-0.0583)Tyr+(0.0332)Ile;0.670,0.727,0.763,0.769,0.729,0.809,0.784,0.773,(0.9289)+(0.0009)Gln+(-0.0015)Thr+(-0.0095)Ala+(0.0228)Orn+(-0.0186)Lys+(0.0400)Phe;0.670,0.722,0.766,0.794,0.764,0.764,0.699,0.755,(3.9667)+(-0.0453)Asn+(0.0012)Gly+(-0.0096)Tyr+(-0.1463)Met+(-0.0010)Lys+(0.0027)Leu;0.670,0.713,0.666,0.670,0.662,0.721,0.624,0.669,(-1.1230)+(0.0327)Ser+(-0.0016)Gln+(-0.0144)Thr+(-0.0722)Cit+(-0.0133)Val+(0.0580)Phe;0.670,0.725,0.792,0.828,0.755,0.803,0.762,0.787,(3.4927)+(-0.1330)Asn+(-0.0002)Gly+(0.0053)Gln+(0.0072)Pro+(-0.0160)Val+(-0.0008)Lys;0.670,0.721,0.769,0.797,0.770,0.802,0.670,0.759,(5.2470)+(-0.0936)Asn+(0.0031)Gly+(-0.0614)Cit+(0.0014)Arg+(-0.0089)Val+(0.0002)Lys;0.670,0.725,0.787,0.795,0.749,0.853,0.795,0.798,(2.8786)+(0.0039)Gln+(-0.0078)Ala+(-0.0730)Cit+(-0.0199)Val+(-0.0118)Lys+(0.0379)Leu;0.670,0.727,0.708,0.699,0.656,0.783,0.784,0.730,(-0.3612)+(0.0362)Ser+(-0.0085)Gly+(-0.0175)Thr+(-0.0322)Val+(0.0242)Orn+(0.0334)Leu;0.670,0.729,0.7

31,0.778,0.732,0.761,0.585,0.714,(4.6958)+(-0.0955)Asn+(0.0125)Thr+(-0.0181)Arg+(-0.0438)Tyr+(0.0307)Orn+(-0.0095)Leu;0.670,0.717,0.656,0.647,0.676,0.716,0.593,0.658,(-2.0841)+(0.0358)Ser+(-0.0176)Thr+(-0.0755)Cit+(-0.0160)Arg+(0.0018)Pro+(0.0332)Phe;0.670,0.711,0.663,0.675,0.691,0.721,0.528,0.654,(-1.5101)+(0.0282)Ser+(-0.0692)Cit+(-0.0249)Arg+(0.0028)Pro+(-0.0206)Leu+(0.0510)Phe;0.670,0.724,0.752,0.765,0.720,0.820,0.734,0.760,(2.2011)+(0.0017)Gln+(-0.0105)Ala+(-0.0182)Arg+(0.0089)Pro+(0.0243)Orn+(-0.0128)Lys;0.670,0.723,0.705,0.769,0.664,0.671,0.644,0.687,(0.9708)+(-0.0038)Gly+(0.0002)Thr+(-0.0788)Tyr+(0.0232)Orn+(-0.0226)Leu+(0.0737)Phe;0.670,0.726,0.762,0.773,0.731,0.800,0.768,0.768,(1.1640)+(-0.0011)Thr+(-0.0091)Ala+(0.0247)Orn+(-0.0166)Lys+(-0.0072)Leu+(0.0468)Phe;0.670,0.719,0.695,0.716,0.650,0.733,0.708,0.702,(2.0774)+(-0.0026)Gly+(0.0021)Gln+(0.0062)Thr+(-0.0598)Tyr+(-0.0220)Lys+(0.0448)Ile;0.670,0.728,0.766,0.812,0.741,0.805,0.672,0.757,(5.0128)+(-0.0862)Asn+(0.0186)Thr+(-0.0050)Ala+(-0.0118)Arg+(-0.0308)Tyr+(-0.0030)Lys;0.670,0.721,0.743,0.774,0.675,0.807,0.754,0.753,(3.7909)+(-0.0084)Ala+(-0.0145)Arg+(0.0133)Pro+(-0.0301)Tyr+(-0.0266)Val+(0.0367)Leu;0.670,0.714,0.667,0.681,0.675,0.732,0.567,0.664,(-1.1505)+(0.0281)Ser+(-0.0564)Cit+(-0.0250)Arg+(0.0042)Pro+(-0.0170)Val+(0.0557)Phe;0.670,0.721,0.663,0.703,0.655,0.656,0.575,0.647,(1.1377)+(0.0004)Gly+(0.0042)Thr+(-0.0799)Cit+(0.0039)Pro+(-0.0792)Tyr+(0.0604)Phe;0.670,0.725,0.781,0.820,0.769,0.791,0.699,0.770,(1.7935)+(0.0055)Gln+(-0.0124)Arg+(-0.0070)Tyr+(-0.2079)Met+(-0.0036)Lys+(0.0044)Leu;0.670,0.728,0.708,0.713,0.704,0.773,0.658,0.712,(0.5535)+(0.0419)Ser+(-0.0085)Gly+(-0.0218)Arg+(0.0044)Pro+(-0.0170)Lys+(-0.0057)Leu;0.670,0.726,0.771,0.774,0.767,0.841,0.723,0.776,(3.9228)+(0.0104)Thr+(-0.0091)Ala+(-0.0846)Cit+(0.0021)Arg+(-0.0137)Lys+(0.0096)Leu;0.670,0.725,0.779,0.799,0.751,0.827,0.749,0.782,(3.8090)+(-0.1067)Asn+(0.0003)Gly+(0.0057)

Thr+(-0.0069)Ala+(0.0248)Orn+(-0.0070)Leu;0.670,0.719,0.710,0.764,0.672,0.681,0.668,0.696,(1.7787)+(-0.0020)Gly+(0.0063)Pro+(-0.0718)Tyr+(-0.0116)Lys+(-0.0157)Leu+(0.0771)Phe;0.670,0.729,0.730,0.727,0.669,0.821,0.801,0.754,(-0.2351)+(0.0387)Ser+(-0.0065)Gly+(-0.0015)Gln+(-0.0159)Thr+(-0.0086)Ala+(0.0202)Orn;0.670,0.729,0.703,0.707,0.632,0.827,0.755,0.730,(-0.0349)+(0.0333)Ser+(-0.0021)Gln+(-0.0167)Thr+(-0.0111)Ala+(0.0132)Pro+(-0.0034)Leu;0.670,0.723,0.766,0.792,0.748,0.817,0.701,0.764,(3.7859)+(0.0014)Gly+(-0.0076)Ala+(-0.0758)Cit+(-0.0011)Arg+(-0.0238)Tyr+(0.0055)Leu;0.670,0.720,0.756,0.787,0.743,0.808,0.665,0.751,(3.9035)+(0.0107)Thr+(-0.0

078)Ala+(-0.0738)Cit+(-0.0063)Arg+(-0.0318)Tyr+(0.0047)Leu;0.670,0.723,0.781,0.813,0.772,0.794,0.706,0.771,(5.8531)+(-0.0801)Asn+(-0.0551)Cit+(0.0017)Arg+(-0.0202)Tyr+(-0.0078)Val+(0.0017)Lys;0.670,0.725,0.696,0.694,0.692,0.765,0.661,0.703,(0.2843)+(0.0427)Ser+(-0.0083)Gly+(-0.0001)Gln+(-0.0208)Arg+(0.0035)Pro+(-0.0193)Lys;0.670,0.725,0.784,0.813,0.785,0.793,0.698,0.773,(2.9356)+(-0.1355)Asn+(0.0071)Gln+(0.0093)Thr+(-0.0741)Cit+(-0.0086)Arg+(-0.0080)Leu;0.670,0.724,0.697,0.694,0.688,0.764,0.678,0.706,(0.1105)+(0.0450)Ser+(-0.0081)Gly+(-0.0077)Thr+(-0.0182)Arg+(0.0044)Pro+(-0.0173)Lys;0.670,0.716,0.667,0.677,0.668,0.736,0.590,0.668,(-1.0534)+(0.0281)Ser+(-0.0535)Cit+(-0.0237)Arg+(-0.0258)Val+(0.0203)Leu+(0.0519)Phe;0.670,0.727,0.664,0.674,0.646,0.754,0.612,0.672,(-1.0617)+(0.0354)Ser+(-0.0025)Gln+(-0.0077)Thr+(-0.0127)Val+(-0.0173)Lys+(0.0620)Phe;0.670,0.723,0.739,0.744,0.754,0.753,0.685,0.734,(2.3400)+(-0.0996)Asn+(0.0020)Gly+(-0.0129)Arg+(0.0227)Orn+(-0.0132)Lys+(0.0371)Phe;0.670,0.721,0.733,0.754,0.752,0.758,0.616,0.720,(4.2242)+(-0.1147)Asn+(0.0035)Gly+(0.0082)Thr+(-0.0745)Cit+(0.0042)Pro+(-0.0083)Leu;0.670,0.738,0.716,0.743,0.664,0.839,0.665,0.728,(0.8327)+(0.0289)Ser+(-0.0006)Gln+(-0.0064)Ala+(-0.0261)Tyr+(-0.0149)Lys

+(0.0097)Leu;0.670,0.724,0.758,0.779,0.687,0.844,0.788,0.775,(0.7499)+(0.0361)Ser+(-0.0073)Gly+(-0.0005)Gln+(-0.0092)Thr+(-0.0064)Ala+(-0.0073)Val;0.669,0.723,0.752,0.755,0.744,0.774,0.747,0.755,(1.7890)+(-0.1127)Asn+(0.0052)Gln+(0.0078)Thr+(-0.0167)Arg+(-0.0158)Lys+(0.0309)Ile;0.669,0.723,0.689,0.746,0.657,0.682,0.607,0.673,(1.3045)+(0.0075)Thr+(0.0055)Pro+(-0.0752)Tyr+(-0.0153)Lys+(-0.0149)Leu+(0.0792)Phe;0.669,0.726,0.692,0.659,0.756,0.795,0.571,0.695,(1.4336)+(0.0025)Gly+(-0.1197)Cit+(-0.0020)Pro+(0.0529)Orn+(-0.0269)Lys+(0.0409)Phe;0.669,0.728,0.725,0.775,0.718,0.738,0.602,0.708,(4.8899)+(-0.0943)Asn+(0.0157)Thr+(-0.0162)Arg+(0.0071)Pro+(-0.0464)Tyr+(-0.0084)Leu;0.669,0.725,0.800,0.843,0.758,0.829,0.752,0.796,(5.1686)+(-0.0845)Asn+(0.0006)Gly+(-0.0034)Ala+(-0.0164)Tyr+(-0.0084)Val+(0.0027)Lys;0.669,0.722,0.790,0.811,0.776,0.852,0.722,0.790,(2.8540)+(0.0002)Gly+(0.0038)Gln+(0.0066)Thr+(-0.0082)Ala+(-0.0849)Cit+(-0.0121)Lys;0.669,0.725,0.682,0.713,0.680,0.747,0.556,0.674,(-1.7737)+(0.0346)Ser+(-0.0013)Gln+(-0.0124)Thr+(-0.0282)Arg+(-0.0193)Leu+(0.0527)Phe;0.669,0.724,0.823,0.858,0.785,0.844,0.795,0.820,(2.7254)+(-0.1022)Asn+(-0.0001)Gly+(0.0060)Gln+(-0.0058)Ala+(-0.0135)Arg+(-0.0032)Leu;0.669,0.725,0.797,0.826,0.778,0.807,0.751,0.790,(4.4988)+(-0.0421)Asn+(-0.0037)Ala+(-0.0045)Arg+(-0.0061)Tyr+(-0.1128)Met+(0.0015)Lys;0.669,0.725,0.726,0.764,0.638,0.804,0.749,0.739,(2.9890)+(0.0034)Thr+(-0.0090)Ala+(0.0125)Pro+(-0.0372)Tyr+(-0.0269)Val+(0.0364)Leu;0.669,0.726,0.667,0.662,0.635,0.795,0.654,0.687,(0.0681)+(0.0312)Ser+(-0.0070)Thr+(0.0048)Pro+(-0.0295)Val+(-0.0193)Lys+(0.0412)Leu;0.669,0.732,0.727,0.705,0.779,0.817,0.614,0.729,(2.2683)+(0.0022)Gln+(-0.0019)Thr+(-0.1126)Cit+(-0.0022)Arg+(0.0525)Orn+(-0.0229)Lys;0.669,0.725,0.759,0.813,0.740,0.776,0.643,0.743,(3.2438)+(-0.1142)Asn+(0.0060)Gln+(0.0161)Thr+(-0.0178)Arg+(-0.0422)Tyr+(-0.0059)Lys;0.669,0.724,0.707,0.753,0.675,0.697,0.662,0.697,(1.9290)+(-

0.0009)Gly+(-0.0139)Arg+(0.0049)Pro+(-0.0678)Tyr+(-0.0126)Lys+(0.0637)Phe;0.669,0.720,0.789,0.830,0.772,0.795,0.709,0.777,(2.0064)+(-0.0012)Gly+(0.0058)Gln+(-0.0131)Arg+(-0.0079)Tyr+(-0.1978)Met+(-0.0023)Lys;0.669,0.719,0.765,0.801,0.748,0.823,0.667,0.760,(4.1489)+(-0.0003)Gly+(0.0093)Thr+(-0.0067)Ala+(-0.0728)Cit+(-0.0283)Tyr+(-0.0031)Val;0.669,0.728,0.729,0.775,0.708,0.728,0.653,0.716,(4.5968)+(-0.1046)Asn+(-0.0007)Gly+(0.0121)Thr+(0.0067)Pro+(-0.0471)Tyr+(-0.0087)Leu;0.669,0.720,0.682,0.732,0.647,0.684,0.620,0.671,(0.9423)+(0.0012)Gln+(0.0073)Thr+(0.0035)Pro+(-0.0745)Tyr+(-0.0202)Lys+(0.0649)Phe;0.669,0.721,0.749,0.762,0.721,0.821,0.718,0.756,(2.8949)+(-0.0101)Ala+(-0.0176)Arg+(0.0098)Pro+(0.0271)Orn+(-0.0103)Lys+(-0.0057)Leu;0.669,0.739,0.722,0.750,0.665,0.840,0.680,0.734,(0.6330)+(0.0292)Ser+(-0.0028)Thr+(-0.0064)Ala+(-0.0249)Tyr+(-0.0144)Lys+(0.0095)Leu;0.669,0.728,0.778,0.793,0.753,0.831,0.751,0.782,(4.0996)+(-0.0939)Asn+(0.0078)Thr+(-0.0068)Ala+(0.0273)Orn+(-0.0090)Lys+(-0.0028)Leu;0.669,0.724,0.697,0.726,0.684,0.806,0.567,0.696,(0.6680)+(0.0309)Ser+(-0.0060)Thr+(-0.0217)Arg+(0.0074)Pro+(-0.0112)Val+(-0.0100)Lys;0.669,0.720,0.733,0.770,0.646,0.806,0.763,0.746,(2.9065)+(0.0005)Gln+(-0.0090)Ala+(0.0126)Pro+(-0.0354)Tyr+(-0.0263)Val+(0.0354)Leu;0.669,0.716,0.706,0.703,0.729,0.787,0.609,0.707,(2.3063)+(-0.0005)Gly+(-0.0007)Gln+(-0.1004)Cit+(0.0021)Pro+(-0.0162)Val+(0.0492)Orn;0.669,0.720,0.666,0.735,0.626,0.650,0.580,0.648,(0.5223)+(-0.0008)Gln+(0.0053)Pro+(-0.0807)Tyr+(0.0190)Orn+(-0.0243)Leu+(0.0732)Phe;0.669,0.723,0.717,0.744,0.677,0.750,0.709,0.720,(1.9062)+(-0.0017)Gly+(0.0035)Gln+(-0.0158)Arg+(-0.0531)Tyr+(-0.0171)Lys+(0.0439)Ile;0.669,0.717,0.726,0.773,0.695,0.728,0.666,0.716,(2.7207)+(-0.1291)Asn+(0.0039)Gln+(0.0069)Thr+(0.0037)Pro+(-0.0537)Tyr+(0.0174)Orn;0.669,0.727,0.794,0.819,0.775,0.805,0.759,0.789,(4.3106)+(-0.0383)Asn+(-0.0041)Ala+(-0.0038)Arg+(-0.0061)Tyr+(-0.1222)Met+(0.0053)Leu

;0.669,0.725,0.766,0.815,0.735,0.765,0.699,0.754,(2.9307)+(-0.0989)As
n+(0.0062)Gln+(-0.0138)Arg+(0.0056)Pro+(-0.0420)Tyr+(-0.0045)Lys;0.66
9,0.722,0.766,0.816,0.736,0.752,0.705,0.752,(2.8303)+(-0.1028)Asn+(-0
.0008)Gly+(0.0062)Gln+(-0.0158)Arg+(0.0054)Pro+(-0.0455)Tyr;0.669,0.7
22,0.767,0.820,0.745,0.765,0.669,0.750,(3.2020)+(-0.1183)Asn+(-0.0019
)Gly+(0.0062)Gln+(0.0158)Thr+(-0.0203)Arg+(-0.0477)Tyr;0.669,0.718,0.
740,0.792,0.691,0.812,0.655,0.737,(3.9551)+(0.0091)Thr+(-0.0080)Ala+(
-0.0195)Arg+(0.0138)Pro+(-0.0367)Tyr+(-0.0092)Val;0.669,0.726,0.742,0
.768,0.668,0.817,0.774,0.757,(3.6213)+(-0.0085)Ala+(0.0125)Pro+(-0.02
93)Tyr+(-0.0262)Val+(-0.0075)Lys+(0.0393)Leu;0.669,0.719,0.678,0.708,
0.674,0.739,0.564,0.671,(-2.1488)+(0.0341)Ser+(-0.0149)Thr+(-0.0297)A
rg+(0.0048)Pro+(-0.0220)Leu+(0.0491)Phe;0.669,0.722,0.692,0.736,0.633
,0.754,0.653,0.694,(2.2781)+(-0.0030)Thr+(0.0060)Pro+(-0.0516)Tyr+(-0
.0301)Val+(0.0283)Orn+(0.0309)Leu;0.669,0.722,0.706,0.767,0.673,0.704
,0.616,0.690,(0.8592)+(0.0014)Gln+(0.0080)Thr+(-0.0716)Tyr+(-0.0165)L
ys+(-0.0119)Leu+(0.0790)Phe;0.669,0.711,0.664,0.646,0.673,0.702,0.670
,0.673,(-1.9843)+(0.0398)Ser+(-0.0041)Gly+(-0.0217)Thr+(-0.0820)Cit+(
0.0014)Pro+(0.0267)Phe;0.668,0.725,0.781,0.815,0.761,0.786,0.727,0.77
2,(1.7842)+(-0.0011)Gly+(0.0051)Gln+(-0.0087)Tyr+(-0.2138)Met+(-0.006
1)Lys+(0.0055)Leu;0.668,0.730,0.739,0.797,0.688,0.728,0.698,0.728,(2.
0606)+(-0.0011)Gly+(-0.0176)Arg+(-0.0594)Tyr+(-0.0245)Val+(0.0207)Leu
+(0.0764)Phe;0.668,0.722,0.748,0.740,0.734,0.780,0.772,0.757,(1.6185)
+(-0.1124)Asn+(0.0007)Gly+(0.0041)Gln+(0.0130)Orn+(-0.0185)Lys+(0.029
1)Ile;0.668,0.719,0.651,0.616,0.656,0.718,0.682,0.668,(-1.9838)+(0.03
96)Ser+(-0.0036)Gly+(-0.0220)Thr+(-0.0821)Cit+(-0.0022)Pro+(0.0334)Il
e;0.668,0.711,0.662,0.643,0.672,0.706,0.662,0.671,(-1.7087)+(0.0403)S
er+(-0.0039)Gly+(-0.0010)Gln+(-0.0203)Thr+(-0.0804)Cit+(0.0298)Phe;0.
668,0.735,0.708,0.727,0.672,0.770,0.689,0.714,(1.0760)+(0.0410)Ser+(-

0.0100)Gly+(0.0003)Gln+(-0.0445)Tyr+(-0.0163)Lys+(0.0038)Leu;0.668,0.716,0.671,0.692,0.649,0.725,0.625,0.673,(2.6796)+(0.0110)Thr+(-0.0172)Arg+(-0.0003)Pro+(-0.0562)Tyr+(-0.0179)Lys+(0.0463)Ile;0.668,0.723,0.766,0.773,0.736,0.845,0.753,0.777,(3.9101)+(0.0021)Gly+(-0.0074)Ala+(-0.0681)Cit+(-0.0213)Val+(-0.0090)Lys+(0.0403)Leu;0.668,0.719,0.748,0.794,0.717,0.744,0.694,0.737,(2.9002)+(-0.1278)Asn+(-0.0018)Gly+(0.0044)Gln+(0.0084)Thr+(-0.0521)Tyr+(0.0190)Orn;0.668,0.724,0.802,0.844,0.767,0.836,0.740,0.797,(5.3168)+(-0.0743)Asn+(0.0007)Gly+(-0.0033)Ala+(-0.0054)Arg+(-0.0143)Tyr+(-0.0075)Val;0.668,0.717,0.717,0.768,0.666,0.743,0.669,0.712,(3.0379)+(-0.0049)Gly+(0.0005)Gln+(0.0073)Pro+(-0.0562)Tyr+(-0.0152)Val+(0.0302)Orn;0.668,0.727,0.710,0.746,0.697,0.734,0.628,0.701,(4.2601)+(-0.0966)Asn+(0.0104)Thr+(0.0044)Pro+(-0.0492)Tyr+(0.0262)Orn+(-0.0105)Lys;0.668,0.729,0.782,0.804,0.770,0.831,0.715,0.780,(4.1833)+(-0.0940)Asn+(0.0086)Thr+(-0.0066)Ala+(-0.0158)Arg+(0.0279)Orn+(-0.0075)Leu;0.668,0.722,0.767,0.805,0.757,0.826,0.647,0.759,(4.2997)+(0.0112)Thr+(-0.0065)Ala+(-0.0671)Cit+(-0.0076)Arg+(-0.0279)Tyr+(-0.0034)Val;0.668,0.720,0.765,0.788,0.727,0.799,0.762,0.769,(1.7665)+(-0.0108)Ala+(-0.0164)Arg+(0.0103)Pro+(-0.0093)Lys+(-0.0104)Leu+(0.0515)Phe;0.668,0.722,0.766,0.797,0.764,0.764,0.688,0.753,(4.0606)+(-0.0432)Asn+(0.0013)Gly+(-0.0051)Arg+(-0.0093)Tyr+(-0.1426)Met+(0.0022)Leu;0.668,0.722,0.720,0.711,0.726,0.764,0.702,0.726,(2.7131)+(-0.0855)Asn+(0.0021)Gly+(-0.0123)Arg+(0.0189)Orn+(-0.0158)Lys+(0.0303)Ile;0.668,0.720,0.744,0.793,0.709,0.727,0.700,0.732,(2.9302)+(-0.1286)Asn+(-0.0016)Gly+(0.0048)Gln+(0.0103)Thr+(0.0044)Pro+(-0.0529)Tyr;0.668,0.711,0.771,0.788,0.748,0.824,0.738,0.774,(2.0526)+(0.0008)Gly+(0.0028)Gln+(0.0007)Thr+(-0.0097)Ala+(-0.0879)Cit+(0.0025)Leu;0.668,0.725,0.687,0.650,0.752,0.792,0.575,0.692,(1.3924)+(0.0026)Gly+(-0.0011)Thr+(-0.1189)Cit+(0.0519)Orn+(-0.0269)Lys+(0.0393)Phe;0.668,0.721,0.6

64,0.641,0.649,0.725,0.713,0.682,(-1.7822)+(0.0473)Ser+(-0.0080)Gly+(-0.0128)Thr+(0.0027)Pro+(-0.0246)Lys+(0.0374)Phe;0.668,0.720,0.783,0.825,0.768,0.786,0.702,0.770,(1.8075)+(-0.0010)Gly+(0.0056)Gln+(-0.0140)Arg+(-0.0086)Tyr+(-0.2102)Met+(0.0022)Leu;0.668,0.717,0.639,0.600,0.649,0.712,0.670,0.658,(-1.6615)+(0.0410)Ser+(-0.0034)Gly+(-0.0014)Gln+(-0.0216)Thr+(-0.0798)Cit+(0.0317)Ile;0.668,0.727,0.708,0.673,0.766,0.795,0.619,0.713,(1.8572)+(-0.1164)Cit+(0.0008)Arg+(-0.0022)Pro+(0.0536)Orn+(-0.0265)Lys+(0.0379)Phe;0.668,0.726,0.824,0.855,0.788,0.843,0.800,0.822,(2.7878)+(-0.0975)Asn+(0.0060)Gln+(-0.0058)Ala+(-0.0118)Arg+(-0.0038)Lys+(-0.0012)Leu;0.668,0.723,0.753,0.743,0.741,0.766,0.793,0.761,(1.1469)+(-0.1263)Asn+(0.0045)Gln+(0.0055)Thr+(-0.0194)Lys+(0.0255)Ile+(0.0248)Phe;0.668,0.706,0.698,0.700,0.686,0.752,0.677,0.704,(0.5953)+(0.0365)Ser+(-0.0059)Gly+(-0.0149)Thr+(-0.0630)Cit+(0.0065)Pro+(-0.0112)Val;0.668,0.722,0.802,0.849,0.781,0.811,0.714,0.789,(2.3294)+(-0.0013)Gly+(0.0058)Gln+(-0.0143)Arg+(-0.0073)Val+(-0.1954)Met+(0.0018)Lys;0.668,0.722,0.726,0.768,0.697,0.769,0.648,0.720,(2.8508)+(0.0019)Gln+(0.0047)Thr+(-0.0657)Cit+(-0.0446)Tyr+(-0.0227)Val+(0.0297)Leu;0.668,0.724,0.757,0.750,0.740,0.789,0.790,0.767,(1.6597)+(-0.1090)Asn+(0.0044)Gln+(-0.0033)
Pro+(0.0141)Orn+(-0.0189)Lys+(0.0331)Ile;0.668,0.725,0.764,0.801,0.721,0.821,0.717,0.765,(3.8443)+(-0.0030)Gly+(-0.0051)Ala+(-0.0323)Tyr+(-0.0083)Val+(0.0377)Orn+(-0.0086)Lys;0.668,0.726,0.766,0.824,0.747,0.778,0.642,0.748,(3.2757)+(-0.1193)Asn+(0.0060)Gln+(0.0150)Thr+(-0.0198)Arg+(-0.0414)Tyr+(-0.0060)Leu;0.668,0.724,0.696,0.745,0.680,0.684,0.605,0.679,(0.4818)+(0.0033)Gln+(-0.0729)Cit+(-0.0133)Arg+(0.0040)Pro+(-0.0763)Tyr+(0.0614)Phe;0.668,0.718,0.724,0.722,0.770,0.791,0.585,0.717,(2.2041)+(0.0008)Gly+(-0.0069)Thr+(-0.0982)Cit+(-0.0125)Arg+(0.0480)Orn+(-0.0160)Leu;0.668,0.715,0.731,0.769,0.668,0.789,0.719,0.736,

(3.0288)+(-0.0031)Gly+(-0.0095)Ala+(0.0120)Pro+(-0.0476)Tyr+(0.0238)Orn+(-0.0083)Leu;0.668,0.724,0.792,0.832,0.769,0.835,0.701,0.784,(5.3494)+(-0.1032)Asn+(0.0167)Thr+(-0.0041)Ala+(-0.0125)Arg+(-0.0108)Val+(0.0007)Lys;0.668,0.727,0.738,0.750,0.756,0.776,0.643,0.731,(4.2253)+(-0.0915)Asn+(0.0043)Gly+(-0.0770)Cit+(0.0038)Arg+(0.0043)Pro+(-0.0077)Lys;0.668,0.721,0.759,0.781,0.718,0.819,0.743,0.765,(3.9037)+(0.0011)Gly+(-0.0069)Ala+(-0.0650)Cit+(-0.0216)Tyr+(-0.0209)Val+(0.0364)Leu;0.668,0.723,0.791,0.812,0.778,0.853,0.721,0.791,(2.8587)+(0.0039)Gln+(0.0072)Thr+(-0.0082)Ala+(-0.0823)Cit+(-0.0035)Arg+(-0.0115)Lys;0.668,0.720,0.707,0.747,0.686,0.707,0.644,0.696,(3.8631)+(-0.1091)Asn+(-0.0008)Gly+(0.0086)Thr+(0.0042)Pro+(-0.0549)Tyr+(0.0215)Orn;0.668,0.707,0.695,0.691,0.694,0.748,0.666,0.700,(-0.0377)+(0.0378)Ser+(-0.0054)Gly+(-0.0177)Thr+(-0.0721)Cit+(0.0049)Pro+(-0.0101)Leu;0.668,0.706,0.687,0.701,0.694,0.765,0.582,0.685,(0.7198)+(0.0298)Ser+(-0.0105)Thr+(-0.0576)Cit+(-0.0158)Arg+(0.0071)Pro+(-0.0110)Val;0.668,0.725,0.685,0.648,0.750,0.792,0.570,0.690,(1.3811)+(0.0025)Gly+(-0.1192)Cit+(-0.0001)Arg+(0.0517)Orn+(-0.0272)Lys+(0.0392)Phe;0.668,0.723,0.771,0.826,0.742,0.768,0.686,0.755,(3.1494)+(-0.1018)Asn+(0.0062)Gln+(-0.0157)Arg+(0.0070)Pro+(-0.0407)Tyr+(-0.0093)Leu;0.668,0.714,0.779,0.802,0.760,0.826,0.721,0.777,(2.2182)+(0.0005)Gly+(0.0033)Gln+(0.0029)Thr+(-0.0092)Ala+(-0.0803)Cit+(-0.0088)Arg;0.668,0.726,0.724,0.765,0.666,0.766,0.709,0.726,(3.0162)+(-0.0045)Gly+(0.0017)Thr+(-0.0516)Tyr+(-0.0309)Val+(0.0324)Orn+(0.0344)Leu;0.668,0.720,0.658,0.695,0.597,0.750,0.621,0.666,(0.4107)+(0.0254)Ser+(-0.0101)Thr+(0.0078)Pro+(-0.0448)Tyr+(-0.0261)Val+(0.0305)Leu;0.668,0.727,0.756,0.774,0.691,0.820,0.800,0.771,(1.6193)+(0.0080)Thr+(-0.0083)Ala+(-0.0289)Val+(-0.0152)Lys+(0.0392)Leu+(0.0487)Phe;0.668,0.722,0.795,0.834,0.774,0.820,0.716,0.786,(4.0265)+(0.0005)Gly+(-0.0030)Ala+(-0.0084)Arg+(-0.0056)Val+(-0.1515)Met+(0.

0036)Lys;0.668,0.722,0.792,0.829,0.779,0.789,0.721,0.779,(5.0385)+(-0.0572)Asn+(-0.0062)Arg+(-0.0052)Tyr+(-0.0092)Val+(-0.1118)Met+(0.0062)Lys;0.668,0.718,0.767,0.797,0.756,0.737,0.731,0.755,(1.0857)+(-0.1513)Asn+(0.0010)Gly+(0.0038)Gln+(0.0170)Orn+(-0.0237)Leu+(0.0524)Phe;0.668,0.723,0.717,0.763,0.673,0.697,0.699,0.708,(1.1233)+(-0.0026)Gly+(0.0025)Gln+(0.0039)Pro+(-0.0722)Tyr+(-0.0177)Lys+(0.0614)Phe;0.667,0.721,0.718,0.741,0.707,0.797,0.620,0.716,(4.1671)+(0.0138)Thr+(-0.0622)Cit+(-0.0385)Tyr+(-0.0240)Val+(-0.0139)Lys+(0.0392)Leu;0.667,0.721,0.791,0.813,0.774,0.854,0.721,0.791,(2.9227)+(0.0038)Gln+(0.0067)Thr+(-0.0080)Ala+(-0.0831)Cit+(-0.0013)Val+(-0.0115)Lys;0.667,0.719,0.708,0.728,0.662,0.738,0.730,0.715,(1.9160)+(-0.0020)Gly+(0.0025)Gln+(-0.0007)Pro+(-0.0553)Tyr+(-0.0206)Lys+(0.0458)Ile;0.667,0.717,0.722,0.771,0.701,0.756,0.611,0.710,(2.8533)+(0.0024)Gln+(0.0019)Thr+(-0.0698)Cit+(0.0079)Pro+(-0.0490)Tyr+(-0.0096)Val;0.667,0.719,0.741,0.797,0.663,0.750,0.751,0.740,(0.7477)+(-0.0028)Gly+(0.0012)Gln+(0.0047)Thr+(-0.0085)Ala+(-0.0640)Tyr+(0.0632)Phe;0.667,0.715,0.764,0.786,0.756,0.781,0.711,0.759,(5.5733)+(-0.0957)Asn+(-0.0533)Cit+(-0.0011)Arg+(0.0080)Pro+(-0.0132)Val+(0.0012)Lys;0.667,0.727,0.682,0.721,0.653,0.785,0.565,0.681,(1.0611)+(0.0254)Ser+(-0.0022)Gln+(-0.0112)Thr+(-0.0379)Tyr+(-0.0107)Val+(0.0288)Orn;0.667,0.725,0.742,0.760,0.758,0.778,0.634,0.732,(4.3947)+(-0.0903)Asn+(0.0041)Gly+(-0.0723)Cit+(0.0051)Pro+(-0.0052)Lys+(-0.0048)Leu;0.667,0.723,0.761,0.775,0.727,0.798,0.769,0.767,(0.9226)+(0.0007)Gln+(-0.0092)Ala+(0.0235)Orn+(-0.0174)Lys+(-0.0070)Leu+(0.0461)Phe;0.667,0.724,0.775,0.797,0.786,0.788,0.683,0.764,(4.5804)+(-0.0583)Cit+(0.0013)Arg+(-0.0015)Tyr+(-0.0047)Val+(-0.1602)Met+(0.0014)Lys;0.667,0.722,0.793,0.828,0.768,0.823,0.732,0.788,(3.7964)+(0.0003)Gly+(-0.0031)Ala+(0.0009)Tyr+(-0.0053)Val+(-0.1602)Met+(0.0017)Lys;0.667,0.721,0.756,0.789,0.726,0.809,0.693,0.754,(3.8004)+(-0.0020)G

ly+(-0.0061)Ala+(-0.0147)Arg+(-0.0337)Tyr+(0.0356)Orn+(-0.0089)Lys;0.667,0.731,0.694,0.691,0.615,0.787,0.800,0.723,(-1.7998)+(0.0310)Ser+(-0.0071)Gly+(-0.0139)Ala+(0.0086)Pro+(0.0013)Orn+(0.0245)Phe;0.667,0.727,0.768,0.763,0.748,0.783,0.813,0.777,(1.0678)+(-0.1167)Asn+(0.0049)Gln+(-0.0031)Pro+(-0.0186)Lys+(0.0308)Ile+(0.0246)Phe;0.667,0.724,0.711,0.790,0.689,0.703,0.555,0.684,(0.5511)+(0.0023)Gln+(0.0098)Thr+(-0.0292)Arg+(-0.0743)Tyr+(-0.0201)Leu+(0.0828)Phe;0.667,0.718,0.627,0.602,0.684,0.724,0.501,0.628,(-0.8978)+(0.0247)Ser+(-0.0038)Gln+(-0.1097)Cit+(0.0362)Orn+(-0.0222)Leu+(0.0431)Phe;0.667,0.720,0.726,0.718,0.725,0.757,0.723,0.731,(2.0659)+(-0.0938)Asn+(0.0031)Gly+(-0.0109)Arg+(-0.0151)Lys+(0.0293)Ile+(0.0278)Phe;0.667,0.722,0.733,0.721,0.735,0.768,0.736,0.740,(2.9969)+(-0.0789)Asn+(-0.0113)Arg+(-0.0024)Pro+(0.0209)Orn+(-0.0165)Lys+(0.0320)Ile;0.667,0.719,0.749,0.771,0.684,0.796,0.792,0.760,(1.8033)+(-0.0103)Ala+(-0.0208)Arg+(0.0109)Pro+(-0.0292)Val+(0.0310)Leu+(0.0477)Phe;0.667,0.726,0.735,0.716,0.732,0.763,0.770,0.745,(2.3068)+(-0.0938)Asn+(-0.0028)Pro+(0.0174)Orn+(-0.0192)Lys+(0.0277)Ile+(0.0229)Phe;0.667,0.722,0.702,0.703,0.674,0.784,0.697,0.714,(1.0580)+(0.0393)Ser+(-0.0090)Gly+(-0.0010)Gln+(0.0061)Pro+(-0.0109)Val+(-0.0172)Lys;0.667,0.721,0.797,0.818,0.779,0.850,0.740,0.797,(2.7011)+(0.0006)Gly+(0.0044)Gln+(-0.0078)Ala+(-0.0822)Cit+(-0.0015)Arg+(-0.0099)Lys;0.667,0.735,0.675,0.713,0.660,0.796,0.520,0.672,(1.5363)+(0.0241)Ser+(-0.0017)Gln+(-0.0353)Tyr+(-0.0081)Val+(0.0292)Orn+(-0.0142)Lys;0.667,0.722,0.778,0.811,0.761,0.829,0.692,0.773,(4.2446)+(0.0009)Gly+(-0.0062)Ala+(-0.0689)Cit+(-0.0020)Arg+(-0.0201)Tyr+(-0.0027)Val;0.667,0.721,0.755,0.764,0.706,0.803,0.797,0.767,(1.4748)+(-0.0003)Gly+(0.0005)Thr+(-0.0116)Ala+(0.0091)Pro+(-0.0160)Lys+(0.0403)Phe;0.667,0.732,0.695,0.742,0.687,0.799,0.514,0.685,(0.9001)+(0.0287)Ser+(0.0004)Gln+(0.0001)Thr+(-0.0194)Arg+(-0.0349)Tyr+(-0.0113)Lys;0.667,0.72

3,0.719,0.759,0.719,0.753,0.589,0.705,(4.5695)+(-0.0889)Asn+(0.0141)Thr+(-0.0153)Arg+(-0.0454)Tyr+(0.0297)Orn+(-0.0081)Lys;0.667,0.721,0.677,0.746,0.631,0.659,0.604,0.660,(0.3997)+(-0.0040)Thr+(0.0055)Pro+(-0.0784)Tyr+(0.0200)Orn+(-0.0242)Leu+(0.0717)Phe;0.667,0.717,0.644,0.608,0.651,0.705,0.682,0.662,(-2.4565)+(0.0403)Ser+(-0.0034)Gly+(-0.0236)Thr+(-0.0840)Cit+(0.0274)Ile+(0.0115)Phe;0.667,0.736,0.694,0.732,0.669,0.806,0.566,0.693,(0.9387)+(0.0248)Ser+(-0.0074)Thr+(-0.0330)Tyr+(-0.0078)Val+(0.0297)Orn+(-0.0133)Lys;0.667,0.724,0.744,0.759,0.671,0.810,0.811,0.763,(0.7022)+(-0.0040)Thr+(-0.0092)Ala+(-0.0315)Val+(0.0265)Orn+(0.0334)Leu+(0.0396)Phe;0.667,0.728,0.702,0.745,0.649,0.767,0.655,0.704,(2.6110)+(-0.0010)Gln+(-0.0009)Thr+(-0.0465)Tyr+(-0.0309)Val+(0.0314)Orn+(0.0353)Leu;0.667,0.725,0.776,0.790,0.760,0.826,0.738,0.778,(4.3932)+(-0.0074)Ala+(-0.0780)Cit+(0.0061)Arg+(-0.0202)Tyr+(-0.0091)Lys+(0.0099)Leu;0.667,0.722,0.720,0.759,0.685,0.768,0.659,0.718,(3.7114)+(-0.0040)Gly+(0.0071)Pro+(-0.0488)Tyr+(-0.0127)Val+(0.0350)Orn+(-0.0096)Lys;0.667,0.717,0.678,0.698,0.655,0.727,0.639,0.680,(2.9185)+(-0.0014)Gly+(0.0119)Thr+(-0.0168)Arg+(-0.0579)Tyr+(-0.0177)Lys+(0.0452)Ile;0.667,0.723,0.715,0.762,0.706,0.720,0.607,0.699,(4.5234)+(-0.0961)Asn+(-0.0003)Gly+(0.0160)Thr+(-0.0164)Arg+(0.0058)Pro+(-0.0509)Tyr;0.667,0.722,0.743,0.787,0.721,0.766,0.658,0.733,(3.1717)+(-0.1155)Asn+(0.0044)Gln+(0.0096)Thr+(-0.0450)Tyr+(0.0239)Orn+(-0.0110)Lys;0.667,0.725,0.711,0.716,0.664,0.752,0.763,0.724,(-1.7459)+(0.0373)Ser+(-0.0077)Gly+(-0.0199)Thr+(-0.0183)Val+(0.0213)Orn+(0.0416)Phe;0.667,0.726,0.771,0.786,0.735,0.827,0.763,0.778,(4.5127)+(-0.0064)Ala+(-0.0617)Cit+(-0.0173)Tyr+(-0.0208)Val+(-0.0069)Lys+(0.0393)Leu;0.667,0.718,0.716,0.712,0.687,0.774,0.747,0.730,(1.5500)+(-0.0021)Gly+(-0.0334)Val+(0.0314)Orn+(-0.0196)Lys+(0.0363)Leu+(0.0328)Phe;0.667,0.722,0.790,0.822,0.772,0.815,0.724,0.784,(3.7330)+(0.0007)Gly+(-0.0039)Ala+(

-0.0072)Arg+(-0.0014)Tyr+(-0.1551)Met+(0.0005)Lys;0.667,0.721,0.787,0.826,0.775,0.799,0.704,0.776,(4.9611)+(-0.0534)Asn+(0.0011)Gly+(-0.0038)Arg+(-0.0031)Tyr+(-0.0075)Val+(-0.1058)Met;0.667,0.722,0.772,0.794,0.777,0.777,0.702,0.762,(2.4135)+(-0.1401)Asn+(0.0069)Gln+(0.0081)Thr+(-0.0778)Cit+(-0.0085)Arg+(0.0011)Pro;0.667,0.727,0.641,0.616,0.701,0.747,0.503,0.642,(-1.7675)+(0.0249)Ser+(-0.0950)Cit+(-0.0242)Arg+(-0.0024)Pro+(0.0271)Orn+(0.0207)Phe;0.667,0.719,0.738,0.787,0.722,0.805,0.592,0.727,(2.9431)+(0.0022)Gln+(-0.0219)Arg+(-0.0378)Tyr+(-0.0113)Val+(0.0365)Orn+(-0.0068)Lys;0.667,0.721,0.713,0.780,0.685,0.679,0.621,0.691,(1.7654)+(-0.0013)Gly+(-0.0206)Arg+(0.0073)Pro+(-0.0725)Tyr+(-0.0215)Leu+(0.0794)Phe;0.667,0.731,0.720,0.756,0.651,0.832,0.688,0.732,(0.0255)+(0.0259)Ser+(-0.0122)Thr+(-0.0070)Ala+(-0.0328)Tyr+(0.0225)Orn+(-0.0007)Leu;0.667,0.725,0.667,0.693,0.694,0.746,0.487,0.655,(-1.3022)+(0.0291)Ser+(-0.0025)Gln+(-0.0357)Arg+(0.0149)Orn+(-0.0239)Leu+(0.0488)Phe;0.667,0.724,0.822,0.850,0.779,0.851,0.818,0.824,(2.8008)+(-0.1028)Asn+(-0.0003)Gly+(0.0055)Gln+(-0.0061)Ala+(-0.0062)Lys+(-0.0002)Leu;0.666,0.726,0.708,0.673,0.766,0.796,0.615,0.712,(1.8551)+(0.0008)Thr+(-0.1160)Cit+(-0.0022)Pro+(0.0533)Orn+(-0.0266)Lys+(0.0379)Phe;0.666,0.729,0.702,0.729,0.665,0.785,0.648,0.707,(2.9912)+(0.0055)Thr+(-0.0411)Tyr+(-0.0308)Val+(0.0338)Orn+(-0.0161)Lys+(0.0423)Leu;0.666,0.720,0.752,0.789,0.743,0.781,0.655,0.742,(5.2512)+(-0.1164)Asn+(0.0006)Gly+(0.0141)Thr+(-0.0146)Arg+(0.0077)Pro+(-0.0166)Val;0.666,0.715,0.625,0.589,0.641,0.714,0.628,0.643,(-1.7252)+(0.0368)Ser+(-0.0017)Gln+(-0.0210)Thr+(-0.0837)Cit+(-0.0019)Pro+(0.0363)Ile;0.666,0.715,0.634,0.603,0.643,0.707,0.643,0.649,(-2.6862)+(0.0359)Ser+(-0.0232)Thr+(-0.0890)Cit+(-0.0025)Pro+(0.0318)Ile+(0.0146)Phe;0.666,0.722,0.739,0.760,0.754,0.765,0.632,0.728,(4.2277)+(-0.0992)Asn+(0.0040)Gly+(-0.0718)Cit+(-0.0010)Arg+(0.005

2)Pro+(-0.0079)Leu;0.666,0.722,0.763,0.795,0.711,0.798,0.762,0.767,(1.9718)+(-0.0097)Ala+(-0.0175)Arg+(0.0111)Pro+(-0.0131)Val+(-0.0060)Lys+(0.0581)Phe;0.666,0.717,0.781,0.800,0.772,0.844,0.706,0.781,(4.0412)+(0.0018)Gly+(-0.0071)Ala+(-0.0763)Cit+(0.0015)Arg+(-0.0016)Val+(-0.0068)Lys;0.666,0.723,0.802,0.850,0.780,0.812,0.716,0.789,(2.4335)+(-0.0014)Gly+(0.0059)Gln+(-0.0135)Arg+(-0.0037)Tyr+(-0.0067)Val+(-0.1850)Met;0.666,0.721,0.798,0.820,0.779,0.852,0.740,0.798,(2.7695)+(0.0004)Gly+(0.0043)Gln+(-0.0076)Ala+(-0.0817)Cit+(-0.0013)Val+(-0.0096)Lys;0.666,0.727,0.783,0.806,0.763,0.812,0.746,0.782,(3.3714)+(0.0008)Gly+(-0.0046)Ala+(-0.0015)Tyr+(-0.1703)Met+(-0.0034)Lys+(0.0090)Leu;0.666,0.717,0.715,0.764,0.666,0.744,0.666,0.710,(3.2005)+(-0.0045)Gly+(-0.0007)Thr+(0.0075)Pro+(-0.0550)Tyr+(-0.0152)Val+(0.0311)Orn;0.666,0.715,0.780,0.800,0.759,0.824,0.737,0.780,(2.1074)+(0.0008)Gly+(0.0034)Gln+(-0.0093)Ala+(-0.0815)Cit+(-0.0073)Arg+(0.0020)Leu;0.666,0.713,0.778,0.798,0.760,0.826,0.732,0.779,(2.1891)+(0.0033)Gln+(0.0030)Thr+(-0.0094)Ala+(-0.0805)Cit+(-0.0087)Arg+(0.0015)Leu;0.666,0.736,0.723,0.737,0.670,0.847,0.708,0.740,(0.2380)+(0.0321)Ser+(-0.0007)Gln+(-0.0062)Thr+(-0.0074)Ala+(-0.0156)Lys+(0.0083)Leu;0.666,0.721,0.725,0.760,0.714,0.745,0.643,0.715,(4.5136)+(-0.0935)Asn+(-0.0014)Gly+(0.0120)Thr+(-0.0465)Tyr+(0.0288)Orn+(-0.0105)Lys;0.666,0.719,0.771,0.799,0.770,0.761,0.704,0.759,(4.2576)+(-0.0410)Asn+(-0.0048)Arg+(-0.0106)Tyr+(-0.1391)Met+(-0.0000)Lys+(0.0018)Leu;0.666,0.729,0.745,0.750,0.679,0.827,0.811,0.767,(-0.4181)+(0.0369)Ser+(-0.0069)Gly+(-0.0164)Thr+(-0.0083)Ala+(0.0205)Orn+(-0.0042)Leu;0.666,0.717,0.766,0.793,0.741,0.796,0.721,0.763,(1.0853)+(-0.0003)Gly+(-0.0092)Ala+(-0.0252)Arg+(0.0248)Orn+(-0.0158)Leu+(0.0497)Phe;0.666,0.725,0.703,0.662,0.764,0.795,0.618,0.710,(1.8211)+(-0.0000)Thr+(-0.1152)Cit+(0.0002)Arg+(0.0523)Orn+(-0.0267)Lys+(0.0359)Phe;0.666,0.721,0.642,0.620,0.703,0.764,0.487,0.644,(0.

4026)+(0.0220)Ser+(-0.0030)Gln+(-0.1078)Cit+(0.0007)Pro+(0.0383)Orn+(-0.0147)Leu;0.666,0.725,0.718,0.729,0.723,0.785,0.628,0.716,(0.3603)+(0.0351)Ser+(-0.0080)Gly+(-0.0010)Gln+(-0.0322)Arg+(0.0178)Orn+(-0.0166)Leu;0.666,0.715,0.618,0.580,0.635,0.697,0.628,0.635,(-2.2324)+(0.0383)Ser+(-0.0021)Gln+(-0.0226)Thr+(-0.0853)Cit+(0.0298)Ile+(0.0157)Phe;0.666,0.725,0.612,0.572,0.670,0.730,0.512,0.621,(-2.1206)+(0.0259)Ser+(-0.0917)Cit+(-0.0259)Arg+(0.0198)Orn+(0.0203)Ile+(0.0064)Phe;0.666,0.725,0.712,0.715,0.701,0.798,0.665,0.720,(2.7439)+(-0.0204)Arg+(0.0035)Pro+(-0.0342)Val+(0.0349)Orn+(-0.0129)Lys+(0.0395)Leu;0.666,0.723,0.686,0.679,0.665,0.737,0.715,0.699,(-1.5683)+(0.0455)Ser+(-0.0080)Gly+(-0.0112)Thr+(-0.0219)Lys+(-0.0078)Leu+(0.0466)Phe;0.666,0.707,0.683,0.692,0.702,0.757,0.569,0.680,(0.0828)+(0.0317)Ser+(-0.0137)Thr+(-0.0673)Cit+(-0.0147)Arg+(0.0055)Pro+(-0.0096)Leu;0.666,0.726,0.645,0.607,0.653,0.730,0.668,0.664,(-1.0382)+(0.0445)Ser+(-0.0082)Gly+(-0.0024)Gln+(0.0166)Orn+(-0.0296)Lys+(0.0358)Phe;0.666,0.722,0.797,0.833,0.777,0.827,0.719,0.789,(4.1211)+(0.0005)Gly+(-0.0030)Ala+(-0.0067)Arg+(0.0014)Tyr+(-0.0048)Val+(-0.1448)Met;0.666,0.722,0.708,0.762,0.692,0.692,0.609,0.689,(0.4372)+(-0.0001)Gly+(0.0036)Gln+(-0.0729)Cit+(-0.0128)Arg+(-0.0726)Tyr+(0.0638)Phe;0.666,0.719,0.734,0.792,0.710,0.710,0.649,0.715,(1.9850)+(-0.0010)Gly+(-0.0150)Arg+(-0.0625)Tyr+(-0.0072)Lys+(-0.0142)Leu+(0.0805)Phe;0.666,0.722,0.730,0.786,0.714,0.805,0.561,0.717,(2.8700)+(0.0015)Gln+(0.0038)Thr+(-0.0265)Arg+(-0.0425)Tyr+(-0.0133)Val+(0.0340)Orn;0.666,0.726,0.796,0.846,0.776,0.813,0.692,0.782,(2.2509)+(0.0055)Gln+(-0.0143)Arg+(-0.0021)Tyr+(-0.0071)Val+(-0.1938)Met+(0.0020)Lys;0.666,0.719,0.738,0.765,0.761,0.763,0.604,0.723,(4.4055)+(-0.1115)Asn+(0.0031)Gly+(0.0107)Thr+(-0.0710)Cit+(-0.0039)Arg+(-0.0059)Leu;0.666,0.715,0.715,0.762,0.703,0.744,0.594,0.701,(2.3822)+(0.0027)Gln+(0.0006)Thr+(-0.0769)Cit+(0.0066)Pro+(-0.0536)Tyr+(-0.

0077)Leu;0.666,0.721,0.770,0.814,0.734,0.764,0.733,0.761,(3.0157)+(-0.1032)Asn+(-0.0011)Gly+(0.0057)Gln+(0.0054)Pro+(-0.0434)Tyr+(-0.0071)Lys;0.666,0.728,0.734,0.779,0.666,0.858,0.663,0.742,(1.0114)+(0.0258)Ser+(-0.0007)Gln+(-0.0061)Thr+(-0.0055)Ala+(-0.0246)Tyr+(-0.0053)Val;0.666,0.725,0.746,0.795,0.715,0.758,0.676,0.736,(3.1628)+(-0.1191)Asn+(0.0050)Gln+(0.0118)Thr+(0.0048)Pro+(-0.0468)Tyr+(-0.0089)Lys;0.666,0.708,0.696,0.700,0.715,0.757,0.602,0.694,(0.5585)+(0.0337)Ser+(-0.0062)Gly+(-0.0591)Cit+(-0.0222)Arg+(0.0039)Pro+(-0.0129)Leu;0.666,0.725,0.714,0.683,0.767,0.803,0.626,0.720,(1.2009)+(0.0020)Gln+(-0.1183)Cit+(-0.0025)Pro+(0.0519)Orn+(-0.0276)Lys+(0.0376)Phe;0.666,0.717,0.674,0.641,0.701,0.773,0.637,0.688,(1.1771)+(0.0044)Gly+(-0.0932)Cit+(-0.0045)Pro+(-0.0268)Lys+(0.0489)Ile+(0.0295)Phe;0.666,0.726,0.690,0.726,0.637,0.818,0.615,0.699,(0.8056)+(0.0235)Ser+(-0.0024)Gln+(-0.0073)Ala+(-0.0385)Tyr+(0.0200)Orn+(-0.0005)Leu;0.666,0.719,0.747,0.749,0.708,0.812,0.775,0.761,(2.5563)+(-0.0011)Gly+(-0.0027)Thr+(-0.0107)Ala+(0.0092)Pro+(0.0242)Orn+(-0.0151)Lys;0.666,0.719,0.759,0.770,0.708,0.803,0.804,0.771,(1.1612)+(-0.0007)Gly+(0.0012)Gln+(-0.0116)Ala+(0.0089)Pro+(-0.0166)Lys+(0.0388)Phe;0.666,0.719,0.756,0.791,0.745,0.779,0.668,0.746,(5.3011)+(-0.1175)Asn+(0.0141)Thr+(-0.0150)Arg+(0.0077)Pro+(-0.0170)Val+(0.0013)Lys;0.666,0.710,0.668,0.669,0.655,0.725,0.648,0.674,(-1.3909)+(0.0305)Ser+(-0.0151)Thr+(-0.0714)Cit+(-0.0220)Val+(0.0176)Leu+(0.0482)Phe;0.666,0.715,0.681,0.698,0.643,0.722,0.684,0.687,(2.6336)+(-0.0018)Gly+(0.0077)Thr+(-0.0007)Pro+(-0.0582)Tyr+(-0.0210)Lys+(0.0468)Ile;0.666,0.725,0.770,0.815,0.740,0.775,0.709,0.760,(3.3763)+(-0.1178)Asn+(-0.0022)Gly+(0.0056)Gln+(0.0141)Thr+(-0.0440)Tyr+(-0.0088)Lys;0.666,0.723,0.722,0.737,0.750,0.748,0.609,0.711,(3.8039)+(-0.1167)Asn+(0.0040)Gly+(0.0087)Thr+(-0.0756)Cit+(-0.0040)Arg+(0.0028)Pro;0.666,0.723,0.819,0.864,0.789,0.830,0.756,0.810,(3.3980)+(-0.1201)

Asn+(-0.0004)Gly+(0.0067)Gln+(-0.0148)Arg+(-0.0133)Val+(0.0018)Lys;0.666,0.721,0.759,0.801,0.723,0.825,0.675,0.756,(2.6245)+(0.0027)Gln+(-0.0064)Ala+(-0.0183)Arg+(-0.0334)Tyr+(0.0318)Orn+(-0.0100)Lys;0.666,0.716,0.748,0.794,0.678,0.811,0.724,0.752,(3.7107)+(-0.0028)Gly+(0.0047)Thr+(-0.0084)Ala+(0.0137)Pro+(-0.0402)Tyr+(-0.0093)Val;0.666,0.713,0.760,0.812,0.701,0.821,0.699,0.758,(3.0624)+(0.0028)Gln+(-0.0080)Ala+(-0.0183)Arg+(0.0136)Pro+(-0.0341)Tyr+(-0.0089)Val;0.666,0.719,0.746,0.745,0.762,0.753,0.711,0.743,(2.6217)+(-0.0947)Asn+(-0.0122)Arg+(0.0002)Pro+(0.0236)Orn+(-0.0137)Lys+(0.0347)Phe;0.666,0.712,0.760,0.777,0.751,0.820,0.693,0.760,(3.0820)+(0.0015)Gly+(0.0050)Thr+(-0.0093)Ala+(-0.0801)Cit+(-0.0057)Arg+(0.0029)Leu;0.666,0.718,0.653,0.627,0.622,0.762,0.710,0.680,(0.8646)+(0.0335)Ser+(-0.0082)Gly+(-0.0045)Gln+(-0.0369)Val+(0.0223)Orn+(0.0392)Leu;0.665,0.726,0.711,0.675,0.764,0.799,0.631,0.717,(1.1893)+(0.0020)Gln+(-0.0017)Thr+(-0.1169)Cit+(0.0509)Orn+(-0.0275)Lys+(0.0353)Phe;0.665,0.714,0.749,0.773,0.710,0.834,0.705,0.755,(2.9909)+(-0.0005)Thr+(-0.0091)Ala+(-0.0224)Arg+(0.0109)Pro+(-0.0136)Val+(0.0304)Orn;0.665,0.725,0.665,0.664,0.681,0.773,0.556,0.668,(-0.5299)+(0.0337)Ser+(-0.0115)Thr+(-0.0202)Arg+(0.0033)Pro+(0.0219)Orn+(-0.0185)Lys;0.665,0.719,0.681,0.699,0.659,0.795,0.601,0.688,(0.6754)+(0.0296)Ser+(-0.0015)Gln+(-0.0052)Thr+(-0.0233)Arg+(-0.0301)Val+(0.0364)Leu;0.665,0.718,0.725,0.747,0.661,0.784,0.758,0.737,(1.0774)+(-0.0016)Gln+(-0.0108)Ala+(0.0095)Pro+(-0.0170)Val+(0.0217)Orn+(0.0466)Phe;0.665,0.721,0.660,0.688,0.610,0.763,0.614,0.669,(1.0877)+(0.0277)Ser+(-0.0025)Gln+(-0.0061)Thr+(-0.0370)Tyr+(-0.0276)Val+(0.0386)Leu;0.665,0.723,0.804,0.847,0.767,0.830,0.746,0.798,(5.3706)+(-0.0784)Asn+(-0.0032)Ala+(-0.0072)Arg+(-0.0164)Tyr+(-0.0086)Val+(0.0043)Lys;0.665,0.721,0.685,0.660,0.722,0.776,0.605,0.691,(-0.1714)+(0.0252)Ser+(-0.0057)Gly+(-0.1038)Cit+(0.0001)Pro+(0.0345)Orn+(-0.0164)Leu;0.665,0

.721,0.743,0.755,0.703,0.798,0.757,0.753,(0.8395)+(0.0002)Gly+(-0.012
7)Ala+(-0.0247)Arg+(0.0082)Pro+(0.0156)Orn+(0.0302)Phe;0.665,0.717,0.
763,0.784,0.723,0.814,0.756,0.769,(4.1353)+(-0.0067)Ala+(-0.0613)Cit+
(-0.0016)Arg+(-0.0218)Tyr+(-0.0211)Val+(0.0364)Leu;0.665,0.706,0.674,
0.660,0.680,0.729,0.661,0.683,(-0.6374)+(0.0390)Ser+(-0.0048)Gly+(-0.
0004)Gln+(-0.0192)Thr+(-0.0760)Cit+(0.0029)Pro;0.665,0.724,0.759,0.80
4,0.710,0.834,0.687,0.759,(2.8532)+(0.0013)Gln+(-0.0055)Ala+(-0.0305)
Tyr+(-0.0077)Val+(0.0339)Orn+(-0.0101)Lys;0.665,0.724,0.728,0.769,0.7
17,0.757,0.624,0.717,(4.4729)+(-0.0983)Asn+(0.0107)Thr+(-0.0425)Tyr+(
0.0296)Orn+(-0.0082)Lys+(-0.0055)Leu;0.665,0.722,0.666,0.645,0.652,0.
729,0.704,0.682,(-1.4112)+(0.0477)Ser+(-0.0077)Gly+(-0.0012)Gln+(-0.0
108)Thr+(-0.0239)Lys+(0.0412)Phe;0.665,0.718,0.667,0.647,0.702,0.734,
0.594,0.669,(-1.4839)+(0.0257)Ser+(-0.0049)Gly+(-0.1066)Cit+(0.0319)O
rn+(-0.0227)Leu+(0.0354)Phe;0.665,0.719,0.765,0.792,0.741,0.797,0.720
,0.762,(1.0355)+(-0.0004)Thr+(-0.0092)Ala+(-0.0251)Arg+(0.0248)Orn+(-
0.0158)Leu+(0.0499)Phe;0.665,0.717,0.753,0.767,0.692,0.823,0.792,0.76
9,(3.4459)+(-0.0092)Ala+(-0.0132)Arg+(0.0118)Pro+(-0.0290)Val+(-0.006
4)Lys+(0.0411)Leu;0.665,0.718,0.795,0.830,0.786,0.762,0.748,0.781,(1.
3263)+(-0.1242)Asn+(0.0060)Gln+(-0.0166)Arg+(-0.0051)Lys+(-0.0180)Leu
+(0.0570)Phe;0.665,0.722,0.750,0.788,0.722,0.811,0.665,0.746,(3.4859)
+(-0.0062)Ala+(-0.0158)Arg+(-0.0318)Tyr+(0.0348)Orn+(-0.0086)Lys+(-0.
0009)Leu;0.665,0.707,0.639,0.620,0.656,0.702,0.606,0.646,(-1.8970)+(0
.0364)Ser+(-0.0015)Gln+(-0.0211)Thr+(-0.0848)Cit+(0.0018)Pro+(0.0316)
Phe;0.665,0.726,0.691,0.657,0.750,0.794,0.583,0.696,(0.9946)+(0.0021)
Gly+(0.0014)Gln+(-0.1202)Cit+(0.0504)Orn+(-0.0281)Lys+(0.0382)Phe;0.6
65,0.723,0.716,0.722,0.701,0.777,0.686,0.722,(0.2404)+(0.0432)Ser+(-0
.0083)Gly+(0.0007)Gln+(-0.0059)Thr+(-0.0182)Arg+(-0.0166)Lys;0.665,0.
720,0.791,0.832,0.784,0.754,0.725,0.774,(1.0767)+(-0.1332)Asn+(0.0014

)Gly+(0.0056)Gln+(-0.0190)Arg+(-0.0206)Leu+(0.0586)Phe;0.665,0.704,0.716,0.722,0.704,0.769,0.685,0.720,(0.7411)+(0.0353)Ser+(-0.0061)Gly+(0.0003)Gln+(-0.0123)Thr+(-0.0642)Cit+(-0.0090)Val;0.665,0.712,0.751,0.773,0.712,0.833,0.715,0.758,(3.1772)+(-0.0012)Gly+(-0.0091)Ala+(-0.0220)Arg+(0.0108)Pro+(-0.0138)Val+(0.0308)Orn;0.665,0.714,0.736,0.779,0.684,0.792,0.692,0.737,(3.5839)+(-0.0019)Gly+(0.0091)Thr+(-0.0095)Ala+(-0.0192)Arg+(0.0124)Pro+(-0.0448)Tyr;0.665,0.726,0.677,0.662,0.669,0.738,0.690,0.690,(-1.4258)+(0.0407)Ser+(-0.0090)Gly+(0.0164)Orn+(-0.0277)Lys+(-0.0098)Leu+(0.041

4)Phe;0.665,0.723,0.688,0.755,0.650,0.672,0.602,0.670,(0.4431)+(-0.0003)Gln+(-0.0026)Thr+(-0.0748)Tyr+(0.0219)Orn+(-0.0220)Leu+(0.0736)Phe;0.665,0.721,0.763,0.767,0.759,0.764,0.758,0.762,(1.2164)+(-0.1262)Asn+(0.0007)Gly+(0.0042)Gln+(0.0169)Orn+(-0.0161)Lys+(0.0346)Phe;0.665,0.719,0.739,0.791,0.703,0.729,0.684,0.727,(1.0039)+(-0.0022)Gly+(0.0038)Gln+(-0.0169)Arg+(-0.0662)Tyr+(-0.0136)Lys+(0.0639)Phe;0.665,0.718,0.739,0.763,0.738,0.720,0.694,0.729,(1.9852)+(-0.1354)Asn+(0.0018)Gly+(0.0025)Pro+(0.0198)Orn+(-0.0249)Leu+(0.0538)Phe;0.665,0.715,0.655,0.683,0.675,0.728,0.490,0.644,(-1.4251)+(0.0307)Ser+(-0.0022)Gln+(-0.0350)Arg+(0.0037)Pro+(-0.0236)Leu+(0.0492)Phe;0.665,0.729,0.743,0.774,0.688,0.869,0.683,0.754,(0.8513)+(0.0287)Ser+(-0.0004)Gln+(-0.0050)Thr+(-0.0060)Ala+(-0.0041)Val+(-0.0112)Lys;0.665,0.720,0.664,0.709,0.665,0.663,0.544,0.645,(1.4277)+(0.0090)Thr+(-0.0687)Cit+(-0.0142)Arg+(0.0041)Pro+(-0.0797)Tyr+(0.0629)Phe;0.665,0.717,0.774,0.794,0.771,0.846,0.679,0.772,(4.0562)+(0.0010)Gly+(0.0093)Thr+(-0.0076)Ala+(-0.0783)Cit+(-0.0017)Val+(-0.0095)Lys;0.665,0.726,0.766,0.818,0.732,0.764,0.704,0.755,(3.1134)+(-0.1075)Asn+(0.0055)Gln+(0.0064)Pro+(-0.0408)Tyr+(-0.0046)Lys+(-0.0071)Leu;0.665,0.716,0.758,0.786,0.695,0.797,0.784,0.766,(1.6605)+(-0.0004)Gly+(-0.0100)Ala+(0.0104)Pro+(-0.0121)Val+(-0.

0108)Lys+(0.0532)Phe;0.665,0.717,0.769,0.799,0.740,0.803,0.723,0.766,(0.6548)+(0.0011)Gln+(-0.0093)Ala+(-0.0266)Arg+(0.0234)Orn+(-0.0158)Leu+(0.0490)Phe;0.665,0.719,0.773,0.790,0.773,0.847,0.677,0.772,(3.9916)+(0.0011)Gly+(0.0094)Thr+(-0.0080)Ala+(-0.0799)Cit+(-0.0009)Arg+(-0.0101)Lys;0.665,0.721,0.711,0.714,0.675,0.786,0.726,0.725,(0.6039)+(0.0415)Ser+(-0.0087)Gly+(-0.0093)Thr+(0.0068)Pro+(-0.0103)Val+(-0.0150)Lys;0.665,0.720,0.758,0.769,0.705,0.806,0.800,0.770,(1.0929)+(0.0011)Gln+(-0.0007)Thr+(-0.0116)Ala+(0.0090)Pro+(-0.0165)Lys+(0.0393)Phe;0.665,0.718,0.715,0.747,0.685,0.753,0.665,0.712,(3.7427)+(-0.0004)Gly+(-0.0590)Cit+(0.0076)Pro+(-0.0453)Tyr+(-0.0236)Val+(0.0280)Leu;0.665,0.715,0.705,0.755,0.668,0.690,0.659,0.693,(1.2335)+(-0.0036)Gly+(0.0021)Gln+(0.0105)Thr+(-0.0760)Tyr+(-0.0203)Lys+(0.0668)Phe;0.665,0.708,0.669,0.678,0.668,0.763,0.579,0.672,(0.6136)+(0.0256)Ser+(-0.0512)Cit+(-0.0209)Arg+(0.0052)Pro+(-0.0271)Val+(0.0284)Leu;0.665,0.721,0.747,0.738,0.735,0.778,0.773,0.756,(1.7076)+(-0.1155)Asn+(0.0041)Gln+(0.0032)Thr+(0.0122)Orn+(-0.0191)Lys+(0.0284)Ile;0.664,0.724,0.718,0.727,0.707,0.781,0.672,0.722,(0.5454)+(0.0412)Ser+(-0.0085)Gly+(0.0005)Gln+(-0.0206)Arg+(-0.0170)Lys+(-0.0029)Leu;0.664,0.720,0.748,0.763,0.755,0.736,0.705,0.740,(2.5295)+(-0.1221)Asn+(0.0065)Thr+(0.0227)Orn+(-0.0108)Lys+(-0.0192)Leu+(0.0545)Phe;0.664,0.715,0.746,0.755,0.676,0.833,0.804,0.767,(2.2957)+(-0.0019)Gly+(-0.0007)Gln+(-0.0083)Ala+(-0.0331)Val+(0.0295)Orn+(0.0418)Leu;0.664,0.721,0.800,0.824,0.779,0.850,0.744,0.799,(2.8014)+(0.0045)Gln+(-0.0075)Ala+(-0.0789)Cit+(-0.0024)Arg+(-0.0016)Val+(-0.0090)Lys;0.664,0.721,0.797,0.835,0.776,0.819,0.723,0.788,(4.0918)+(-0.0030)Ala+(-0.0083)Arg+(0.0005)Tyr+(-0.0057)Val+(-0.1511)Met+(0.0035)Lys;0.664,0.719,0.677,0.642,0.702,0.769,0.651,0.691,(0.3900)+(0.0034)Gly+(0.0025)Gln+(-0.0971)Cit+(-0.0288)Lys+(0.0425)Ile+(0.0262)Phe;0.664,0.719,0.743,0.768,0.743,0.725,0.691,0.732,(2.0161)+

(-0.1398)Asn+(0.0016)Gly+(0.0035)Thr+(0.0195)Orn+(-0.0241)Leu+(0.0549)Phe;0.664,0.718,0.701,0.699,0.673,0.769,0.714,0.714,(1.1829)+(0.0014)Pro+(-0.0332)Val+(0.0291)Orn+(-0.0200)Lys+(0.0356)Leu+(0.0332)Phe;0.664,0.716,0.685,0.729,0.654,0.672,0.640,0.674,(1.7749)+(-0.0028)Gly+(0.0107)Thr+(0.0036)Pro+(-0.0777)Tyr+(-0.0195)Lys+(0.0662)Phe;0.664,0.714,0.758,0.806,0.729,0.803,0.656,0.748,(3.2529)+(-0.0043)Gly+(0.0028)Gln+(-0.0243)Arg+(-0.0445)Tyr+(-0.0134)Val+(0.0369)Orn;0.664,0.718,0.751,0.760,0.679,0.828,0.817,0.771,(3.1993)+(-0.0007)Gly+(-0.0095)Ala+(0.0111)Pro+(-0.0287)Val+(-0.0103)Lys+(0.0419)Leu;0.664,0.730,0.689,0.733,0.682,0.790,0.516,0.680,(0.8132)+(0.0293)Ser+(0.0003)Gln+(-0.0189)Arg+(-0.0358)Tyr+(-0.0121)Lys+(0.0024)Leu;0.664,0.727,0.732,0.744,0.721,0.790,0.681,0.734,(-0.0411)+(0.0395)Ser+(-0.0079)Gly+(-0.0142)Thr+(-0.0269)Arg+(0.0224)Orn+(-0.0145)Leu;0.664,0.725,0.718,0.725,0.705,0.781,0.681,0.723,(0.5342)+(0.0433)Ser+(-0.0083)Gly+(-0.0053)Thr+(-0.0181)Arg+(-0.0155)Lys+(-0.0021)Leu;0.664,0.722,0.756,0.781,0.778,0.740,0.657,0.739,(2.6474)+(-0.1223)Asn+(0.0081)Thr+(-0.0208)Arg+(0.0233)Orn+(-0.0251)Leu+(0.0572)Phe;0.664,0.717,0.710,0.766,0.680,0.690,0.638,0.694,(1.8029)+(-0.0031)Gly+(0.0118)Thr+(-0.0747)Tyr+(-0.0156)Lys+(-0.0124)Leu+(0.0811)Phe;0.664,0.720,0.772,0.773,0.740,0.838,0.784,0.784,(4.1430)+(-0.0074)Ala+(-0.0677)Cit+(0.0039)Arg+(-0.0214)Val+(-0.0097)Lys+(0.0404)Leu;0.664,0.729,0.672,0.714,0.627,0.766,0.585,0.673,(0.4294)+(0.0239)Ser+(-0.0144)Thr+(0.0082)Pro+(-0.0457)Tyr+(-0.0128)Val+(0.0240)Orn;0.664,0.721,0.767,0.814,0.708,0.819,0.729,0.767,(2.9711)+(-0.0040)Gly+(0.0013)Gln+(-0.0056)Ala+(-0.0386)Tyr+(-0.0104)Val+(0.0323)Orn;0.664,0.726,0.708,0.673,0.763,0.798,0.621,0.714,(1.2020)+(0.0019)Gln+(-0.1158)Cit+(-0.0018)Arg+(0.0503)Orn+(-0.0275)Lys+(0.0353)Phe;0.664,0.720,0.704,0.735,0.656,0.743,0.692,0.706,(0.6390)+(0.0397)Ser+(-0.0096)Gly+(-0.0005)Gln+(-0.0079)Thr+(-0.0504)Tyr+(-0.0037)Leu;

0.664,0.720,0.742,0.788,0.681,0.819,0.692,0.745,(3.6077)+(0.0051)Thr+(-0.0083)Ala+(0.0134)Pro+(-0.0348)Tyr+(-0.0077)Val+(-0.0065)Lys;0.664,0.720,0.747,0.759,0.705,0.799,0.761,0.756,(0.6417)+(0.0007)Gln+(-0.0127)Ala+(-0.0253)Arg+(0.0081)Pro+(0.0150)Orn+(0.0295)Phe;0.664,0.730,0.688,0.731,0.681,0.789,0.513,0.679,(0.8769)+(0.0296)Ser+(0.0002)Thr+(-0.0187)Arg+(-0.0357)Tyr+(-0.0121)Lys+(0.0025)Leu;0.664,0.722,0.716,0.760,0.710,0.729,0.602,0.700,(4.7144)+(-0.0909)Asn+(0.0169)Thr+(-0.0143)Arg+(0.0059)Pro+(-0.0477)Tyr+(-0.0053)Lys;0.664,0.713,0.734,0.782,0.707,0.757,0.650,0.724,(2.9753)+(-0.0017)Gly+(0.0030)Gln+(-0.0669)Cit+(0.0080)Pro+(-0.0490)Tyr+(-0.0097)Val;0.664,0.721,0.688,0.745,0.682,0.680,0.558,0.666,(0.4826)+(0.0030)Gln+(0.0073)Thr+(-0.0723)Cit+(-0.0161)Arg+(-0.0773)Tyr+(0.0648)Phe;0.664,0.716,0.687,0.658,0.710,0.775,0.651,0.698,(1.1302)+(0.0027)Gly+(0.0028)Gln+(0.0002)Thr+(-0.0929)Cit+(-0.0264)Lys+(0.0463)Ile;0.664,0.708,0.684,0.694,0.678,0.771,0.606,0.687,(0.6852)+(0.0284)Ser+(-0.0071)Thr+(-0.0534)Cit+(-0.0152)Arg+(-0.0247)Val+(0.0302)Leu;0.664,0.726,0.767,0.808,0.732,0.807,0.701,0.762,(4.7623)+(-0.0914)Asn+(0.0165)Thr+(-0.0054)Ala+(-0.0310)Tyr+(-0.0057)Lys+(0.0029)Leu;0.664,0.721,0.785,0.812,0.769,0.833,0.713,0.782,(4.6110)+(-0.0061)Ala+(-0.0701)Cit+(0.0018)Arg+(-0.0182)Tyr+(-0.0014)Val+(-0.0048)Lys;0.664,0.722,0.711,0.784,0.692,0.685,0.578,0.685,(1.7252)+(-0.0026)Gly+(0.0134)Thr+(-0.0262)Arg+(-0.0764)Tyr+(-0.0198)Leu+(0.0841)Phe;0.664,0.713,0.762,0.779,0.728,0.807,0.759,0.768,(0.5021)+(-0.0004)Gly+(0.0012)Gln+(-0.0107)Ala+(-0.0255)Arg+(0.0183)Orn+(0.0333)Phe;0.664,0.716,0.753,0.786,0.733,0.777,0.692,0.747,(4.9446)+(-0.1255)Asn+(0.0004)Gly+(0.0111)Thr+(0.0074)Pro+(-0.0164)Val+(-0.0011)Lys;0.664,0.724,0.784,0.811,0.768,0.808,0.732,0.780,(3.4419)+(0.0010)Gly+(-0.0045)Ala+(-0.0068)Arg+(-0.0017)Tyr+(-0.1681)Met+(0.0072)Leu;0.663,0.711,0.758,0.801,0.705,0.814,0.712,0.758,(4.2429)+(-0.0012)Gly+(-0.007

9)Ala+(-0.0139)Arg+(0.0141)Pro+(-0.0322)Tyr+(-0.0086)Val;0.663,0.705,0.704,0.704,0.703,0.756,0.671,0.708,(0.0411)+(0.0368)Ser+(-0.0055)Gly+(0.0003)Gln+(-0.0157)Thr+(-0.0723)Cit+(-0.0074)Leu;0.663,0.718,0.751,0.774,0.719,0.793,0.724,0.752,(1.1378)+(-0.0113)Ala+(-0.0255)Arg+(0.0092)Pro+(0.0210)Orn+(-0.0176)Leu+(0.0462)Phe;0.663,0.723,0.676,0.650,0.664,0.762,0.707,0.696,(-0.5795)+(0.0443)Ser+(-0.0085)Gly+(-0.0145)Thr+(0.0029)Pro+(0.0221)Orn+(-0.0226)Lys;0.663,0.717,0.661,0.622,0.697,0.760,0.620,0.675,(1.0618)+(0.0042)Gly+(0.0019)Thr+(-0.0945)Cit+(-0.0276)Lys+(0.0429)Ile+(0.0278)Phe;0.663,0.716,0.758,0.772,0.727,0.800,0.754,0.763,(0.8335)+(0.0001)Gly+(-0.0014)Thr+(-0.0105)Ala+(-0.0238)Arg+(0.0200)Orn+(0.0348)Phe;0.663,0.722,0.768,0.792,0.768,0.775,0.698,0.758,(5.3253)+(-0.0711)Asn+(-0.0649)Cit+(0.0049)Arg+(-0.0278)Tyr+(-0.0040)Lys+(0.0006)Leu;0.663,0.716,0.758,0.788,0.694,0.800,0.779,0.765,(1.3855)+(0.0006)Gln+(-0.0101)Ala+(0.0103)Pro+(-0.0120)Val+(-0.0114)Lys+(0.0526)Phe;0.663,0.729,0.712,0.718,0.637,0.828,0.771,0.739,(-0.7826)+(0.0304)Ser+(-0.0212)Thr+(-0.0113)Ala+(0.0123)Pro+(0.0170)Orn+(-0.0065)Leu;0.663,0.717,0.750,0.767,0.701,0.824,0.752,0.761,(3.0365)+(-0.0019)Gly+(-0.0092)Ala+(0.0104)Pro+(-0.0110)Val+(0.0289)Orn+(-0.0109)Lys;0.663,0.726,0.766,0.817,0.738,0.777,0.684,0.754,(3.2387)+(-0.1216)Asn+(0.0053)Gln+(0.0128)Thr+(-0.0403)Tyr+(-0.0073)Lys+(-0.0030)Leu;0.663,0.719,0.648,0.618,0.649,0.721,0.675,0.666,(-1.1118)+(0.0452)Ser+(-0.0080)Gly+(-0.0020)Gln+(0.0016)Pro+(-0.0278)Lys+(0.0377)Phe;0.663,0.721,0.723,0.703,0.726,0.746,0.753,0.732,(2.2749)+(-0.1043)Asn+(0.0053)Thr+(0.0145)Orn+(-0.0198)Lys+(0.0235)Ile+(0.0235)Phe;0.663,0.722,0.761,0.758,0.739,0.786,0.797,0.770,(1.5484)+(-0.1108)Asn+(0.0010)Gly+(0.0047)Gln+(-0.0029)Pro+(-0.0174)Lys+(0.0368)Ile;0.663,0.718,0.748,0.822,0.712,0.710,0.655,0.725,(0.7676)+(-0.0026)Gly+(0.0036)Gln+(-0.0237)Arg+(-0.0698)Tyr+(-0.0192)Leu+(0.0790)Phe;0.663,0.718,0.776,0.7

97,0.771,0.759,0.742,0.767,(1.0828)+(-0.1215)Asn+(0.0013)Gly+(0.0056)Gln+(-0.0149)Arg+(-0.0111)Lys+(0.0400)Phe;0.663,0.715,0.685,0.678,0.714,0.751,0.596,0.685,(1.0021)+(0.0008)Gly+(-0.0015)Gln+(-0.1018)Cit+(-0.0193)Val+(0.0483)Orn+(0.0429)Phe;0.663,0.716,0.758,0.776,0.709,0.798,0.786,0.767,(1.4885)+(-0.0004)Gly+(-0.0112)Ala+(0.0098)Pro+(-0.0140)Lys+(-0.0081)Leu+(0.0466)Phe;0.663,0.707,0.705,0.725,0.713,0.786,0.579,0.701,(0.7757)+(0.0279)Ser+(0.0006)Gln+(-0.0083)Thr+(-0.0602)Cit+(-0.0147)Arg+(-0.0086)Val;0.663,0.720,0.769,0.788,0.700,0.819,0.825,0.783,(1.7692)+(-0.0001)Gly+(-0.0079)Ala+(-0.0273)Val+(-0.0121)Lys+(0.0367)Leu+(0.0491)Phe;0.663,0.713,0.726,0.771,0.708,0.747,0.631,0.714,(2.5010)+(-0.0014)Gly+(0.0032)Gln+(-0.0747)Cit+(0.0066)Pro+(-0.0542)Tyr+(-0.0080)Leu;0.663,0.709,0.711,0.717,0.727,0.769,0.619,0.708,(0.5729)+(0.0333)Ser+(-0.0064)Gly+(0.0004)Gln+(-0.0599)Cit+(-0.0210)Arg+(-0.0105)Leu;0.663,0.707,0.781,0.806,0.756,0.831,0.733,0.781,(2.4864)+(0.0002)Gly+(0.0029)Gln+(0.0018)Thr+(-0.0083)Ala+(-0.0807)Cit+(-0.0043)Val;0.663,0.717,0.704,0.703,0.677,0.772,0.716,0.717,(1.1789)+(0.0004)Thr+(-0.0332)Val+(0.0296)Orn+(-0.0201)Lys+(0.0361)Leu+(0.0341)Phe;0.663,0.716,0.737,0.764,0.666,0
.787,0.777,0.749,(0.8096)+(-0.0017)Gly+(-0.0109)Ala+(0.0093)Pro+(-0.0169)Val+(0.0204)Orn+(0.0433)Phe;0.663,0.715,0.735,0.785,0.717,0.771,0.613,0.722,(2.9063)+(0.0035)Gln+(-0.0595)Cit+(-0.0122)Arg+(0.0082)Pro+(-0.0449)Tyr+(-0.0097)Val;0.663,0.716,0.742,0.732,0.737,0.756,0.772,0.749,(2.5245)+(-0.0845)Asn+(-0.0092)Arg+(-0.0019)Pro+(-0.0155)Lys+(0.0307)Ile+(0.0258)Phe;0.663,0.714,0.684,0.690,0.643,0.720,0.727,0.695,(-1.0637)+(0.0403)Ser+(-0.0068)Gly+(-0.0025)Gln+(-0.0151)Thr+(-0.0164)Val+(0.0494)Phe;0.663,0.723,0.658,0.627,0.657,0.737,0.685,0.676,(-1.5786)+(0.0421)Ser+(-0.0088)Gly+(0.0003)Pro+(0.0147)Orn+(-0.0306)Lys+(0.0325)Phe;0.663,0.719,0.674,0.718,0.669,0.669,0.572,0.657,(1.3821)+

(0.0013)Gly+(-0.0704)Cit+(-0.0096)Arg+(0.0046)Pro+(-0.0728)Tyr+(0.0624)Phe;0.663,0.717,0.700,0.677,0.713,0.790,0.668,0.712,(1.1628)+(0.0026)Gly+(0.0032)Gln+(-0.0927)Cit+(-0.0050)Pro+(-0.0264)Lys+(0.0531)Ile;0.663,0.716,0.786,0.824,0.778,0.743,0.732,0.769,(1.2705)+(-0.1312)Asn+(0.0056)Gln+(-0.0192)Arg+(0.0030)Pro+(-0.0224)Leu+(0.0556)Phe;0.663,0.715,0.765,0.793,0.755,0.728,0.737,0.753,(1.1908)+(-0.1498)Asn+(0.0039)Gln+(0.0019)Pro+(0.0166)Orn+(-0.0247)Leu+(0.0505)Phe;0.663,0.722,0.750,0.794,0.707,0.831,0.667,0.750,(3.2713)+(0.0029)Thr+(-0.0055)Ala+(-0.0309)Tyr+(-0.0079)Val+(0.0344)Orn+(-0.0099)Lys;0.663,0.720,0.759,0.805,0.702,0.819,0.713,0.760,(3.3669)+(-0.0037)Gly+(0.0020)Thr+(-0.0056)Ala+(-0.0383)Tyr+(-0.0104)Val+(0.0332)Orn;0.663,0.715,0.689,0.682,0.715,0.752,0.610,0.690,(1.1021)+(-0.0014)Gln+(-0.1006)Cit+(0.0006)Pro+(-0.0195)Val+(0.0481)Orn+(0.0413)Phe;0.663,0.726,0.714,0.716,0.647,0.820,0.775,0.739,(-0.3147)+(0.0300)Ser+(-0.0077)Gly+(-0.0120)Ala+(0.0104)Pro+(0.0086)Orn+(-0.0093)Leu;0.663,0.718,0.738,0.786,0.721,0.797,0.604,0.727,(4.0851)+(-0.0041)Gly+(0.0078)Thr+(-0.0245)Arg+(-0.0464)Tyr+(-0.0137)Val+(0.0375)Orn;0.663,0.723,0.789,0.812,0.773,0.810,0.748,0.786,(3.6747)+(-0.0044)Ala+(-0.0055)Arg+(-0.0025)Tyr+(-0.1605)Met+(-0.0019)Lys+(0.0078)Leu;0.663,0.715,0.757,0.775,0.706,0.798,0.783,0.766,(1.4208)+(0.0000)Thr+(-0.0112)Ala+(0.0097)Pro+(-0.0141)Lys+(-0.0080)Leu+(0.0467)Phe;0.663,0.710,0.696,0.708,0.712,0.774,0.573,0.692,(0.0931)+(0.0300)Ser+(0.0005)Gln+(-0.0118)Thr+(-0.0685)Cit+(-0.0139)Arg+(-0.0065)Leu;0.663,0.712,0.734,0.756,0.645,0.793,0.820,0.754,(1.1696)+(-0.0010)Gly+(-0.0110)Ala+(0.0098)Pro+(-0.0290)Val+(0.0305)Leu+(0.0373)Phe;0.663,0.717,0.701,0.698,0.677,0.771,0.713,0.715,(1.4716)+(-0.0009)Gln+(-0.0334)Val+(0.0309)Orn+(-0.0193)Lys+(0.0365)Leu+(0.0351)Phe;0.663,0.716,0.757,0.794,0.702,0.791,0.752,0.760,(1.6154)+(0.0004)Gly+(-0.0100)Ala+(-0.0210)Arg+(0.0110)Pro+(-0.0147)Val+(0.0564)Phe;0.6

62,0.712,0.690,0.685,0.715,0.751,0.609,0.690,(0.5467)+(0.0002)Gly+(-0.1024)Cit+(0.0003)Pro+(-0.0194)Val+(0.0460)Orn+(0.0401)Phe;0.662,0.719,0.750,0.769,0.764,0.783,0.649,0.741,(4.4746)+(-0.0881)Asn+(0.0038)Gly+(-0.0747)Cit+(0.0043)Arg+(-0.0063)Lys+(-0.0008)Leu;0.662,0.726,0.624,0.647,0.618,0.741,0.489,0.624,(0.8820)+(0.0283)Ser+(-0.0021)Gln+(0.0057)Pro+(-0.0474)Tyr+(0.0218)Orn+(-0.0186)Lys;0.662,0.711,0.756,0.780,0.687,0.823,0.785,0.769,(2.6082)+(0.0014)Gln+(-0.0096)Ala+(-0.0189)Arg+(0.0116)Pro+(-0.0291)Val+(0.0372)Leu;0.662,0.720,0.738,0.738,0.745,0.745,0.715,0.736,(2.1954)+(-0.1083)Asn+(0.0016)Gly+(0.0003)Pro+(0.0206)Orn+(-0.0154)Lys+(0.0363)Phe;0.662,0.718,0.741,0.783,0.725,0.789,0.629,0.731,(3.0148)+(0.0037)Gln+(-0.0700)Cit+(0.0076)Pro+(-0.0421)Tyr+(-0.0071)Val+(-0.0087)Lys;0.662,0.718,0.720,0.743,0.698,0.766,0.671,0.719,(4.1983)+(-0.0579)Cit+(0.0074)Pro+(-0.0379)Tyr+(-0.0234)Val+(-0.0084)Lys+(0.0324)Leu;0.662,0.715,0.743,0.783,0.726,0.796,0.633,0.734,(4.1677)+(-0.0031)Gly+(-0.0185)Arg+(-0.0389)Tyr+(-0.0118)Val+(0.0412)Orn+(-0.0053)Lys;0.662,0.713,0.709,0.751,0.696,0.726,0.616,0.697,(2.2016)+(-0.0012)Gly+(0.0027)Gln+(0.0015)Thr+(-0.0777)Cit+(0.0052)Pro+(-0.0589)Tyr;0.662,0.722,0.677,0.667,0.663,0.732,0.690,0.688,(-1.4298)+(0.0419)Ser+(-0.0087)Gly+(0.0023)Pro+(-0.0260)Lys+(-0.0097)Leu+(0.0430)Phe;0.662,0.721,0.756,0.767,0.778,0.782,0.661,0.747,(4.9664)+(-0.0978)Asn+(0.0140)Thr+(-0.0701)Cit+(-0.0004)Arg+(-0.0086)Lys+(-0.0025)Leu;0.662,0.716,0.754,0.783,0.693,0.798,0.774,0.762,(1.5444)+(0.0020)Thr+(-0.0101)Ala+(0.0102)Pro+(-0.0122)Val+(-0.0116)Lys+(0.0536)Phe;0.662,0.723,0.746,0.754,0.706,0.797,0.769,0.757,(0.9616)+(-0.0031)Thr+(-0.0125)Ala+(-0.0232)Arg+(0.0084)Pro+(0.0171)Orn+(0.0299)Phe;0.662,0.718,0.747,0.754,0.703,0.816,0.771,0.761,(2.0617)+(0.0010)Gln+(-0.0042)Thr+(-0.0107)Ala+(0.0092)Pro+(0.0233)Orn+(-0.0154)Lys;0.662,0.711,0.791,0.820,0.768,0.836,0.732,0.789,(2.5407)+(0.0002)Gly+(0.0037)Gln+

(-0.0077)Ala+(-0.0733)Cit+(-0.0083)Arg+(-0.0044)Val;0.662,0.716,0.745,0.765,0.694,0.824,0.742,0.756,(2.7791)+(-0.0029)Thr+(-0.0093)Ala+(0.0107)Pro+(-0.0108)Val+(0.0290)Orn+(-0.0104)Lys;0.662,0.718,0.716,0.756,0.711,0.777,0.578,0.706,(4.1876)+(0.0087)Thr+(-0.0660)Cit+(0.0079)Pro+(-0.0440)Tyr+(-0.0075)Val+(-0.0086)Lys;0.662,0.721,0.773,0.796,0.701,0.822,0.829,0.787,(1.4035)+(0.0011)Gln+(-0.0080)Ala+(-0.0270)Val+(-0.0131)Lys+(0.0363)Leu+(0.0477)Phe;0.662,0.721,0.730,0.719,0.721,0.758,0.756,0.738,(1.9807)+(-0.0990)Asn+(0.0027)Gly+(-0.0022)Pro+(-0.0173)Lys+(0.0322)Ile+(0.0273)Phe;0.662,0.721,0.725,0.733,0.710,0.808,0.676,0.732,(2.5017)+(0.0009)Gln+(-0.0203)Arg+(-0.0333)Val+(0.0354)Orn+(-0.0133)Lys+(0.0400)Leu;0.662,0.726,0.747,0.752,0.771,0.773,0.666,0.740,(4.7484)+(-0.0981)Asn+(0.0131)Thr+(-0.0720)Cit+(0.0001)Arg+(0.0027)Pro+(-0.0102)Lys;0.662,0.720,0.763,0.796,0.766,0.739,0.690,0.748,(2.4954)+(-0.1058)Asn+(0.0026)Gly+(-0.0125)Arg+(-0.0040)Lys+(-0.0177)Leu+(0.0625)Phe;0.662,0.720,0.729,0.738,0.650,0.822,0.803,0.753,(1.9477)+(-0.0058)Thr+(-0.0104)Ala+(0.0100)Pro+(-0.0318)Val+(0.0260)Orn+(0.0375)Leu;0.662,0.716,0.790,0.837,0.759,0.785,0.732,0.778,(2.9685)+(-0.0972)Asn+(-0.0011)Gly+(0.0068)Gln+(-0.0132)Arg+(-0.0360)Tyr+(-0.0041)Lys;0.662,0.720,0.723,0.710,0.717,0.767,0.739,0.733,(2.5840)+(-0.0913)Asn+(0.0017)Gly+(-0.0026)Pro+(0.0176)Orn+(-0.0181)Lys+(0.0340)Ile;0.662,0.718,0.664,0.624,0.697,0.762,0.628,0.678,(1.0703)+(0.0043)Gly+(-0.0940)Cit+(0.0006)Arg+(-0.0271)Lys+(0.0431)Ile+(0.0280)Phe;0.662,0.716,0.688,0.661,0.710,0.776,0.651,0.700,(1.1277)+(0.0027)Gly+(0.0029)Gln+(-0.0911)Cit+(-0.0021)Arg+(-0.0259)Lys+(0.0461)Ile;0.662,0.710,0.750,0.770,0.683,0.816,0.788,0.764,(3.1552)+(-0.0003)Gly+(-0.0095)Ala+(-0.0169)Arg+(0.0119)Pro+(-0.0295)Val+(0.0384)Leu;0.662,0.722,0.714,0.726,0.717,0.783,0.627,0.713,(0.0584)+(0.0344)Ser+(-0.0083)Gly+(-0.0339)Arg+(0.0031)Pro+(0.0150)Orn+(-0.0187)Leu;0.662,0.710,0.725,0.763,0.6

51,0.782,0.739,0.734,(2.3853)+(-0.0032)Gly+(0.0009)Gln+(-0.0102)Ala+(0.0111)Pro+(-0.0503)Tyr+(0.0193)Orn;0.661,0.716,0.691,0.742,0.671,0.693,0.593,0.675,(2.0494)+(-0.0023)Gly+(0.0168)Thr+(-0.0193)Arg+(-0.0747)Tyr+(-0.0159)Lys+(0.0708)Phe;0.661,0.706,0.665,0.670,0.656,0.719,0.633,0.669,(-1.5459)+(0.0317)Ser+(-0.0176)Thr+(-0.0739)Cit+(0.0047)Pro+(-0.0144)Val+(0.0515)Phe;0.661,0.723,0.670,0.674,0.687,0.782,0.545,0.672,(-0.0720)+(0.0334)Ser+(-0.0010)Gln+(-0.0096)Thr+(-0.0193)Arg+(0.0244)Orn+(-0.0176)Lys;0.661,0.708,0.665,0.660,0.690,0.744,0.572,0.666,(-0.5430)+(0.0333)Ser+(-0.0002)Gln+(-0.0153)Thr+(-0.0713)Cit+(-0.0140)Arg+(0.0036)Pro;0.661,0.718,0.767,0.795,0.759,0.733,0.735,0.756,(1.1897)+(-0.1546)Asn+(0.0039)Gln+(0.0030)Thr+(0.0160)Orn+(-0.0240)Leu+(0.0516)Phe;0.661,0.717,0.747,0.787,0.709,0.773,0.700,0.742,(2.9090)+(-0.0014)Gly+(0.0028)Gln+(-0.0630)Cit+(-0.0424)Tyr+(-0.0219)Val+(0.0284)Leu;0.661,0.713,0.692,0.710,0.662,0.729,0.679,0.695,(2.7503)+(-0.0003)Gly+(-0.0120)Arg+(0.0004)Pro+(-0.0508)Tyr+(-0.0157)Lys+(0.0453)Ile;0.661,0.715,0.718,0.761,0.652,0.793,0.686,0.723,(2.3744)+(0.0001)Gln+(-0.0098)Ala+(0.0119)Pro+(-0.0455)Tyr+(0.0211)Orn+(-0.0075)Leu;0.661,0.721,0.639,0.609,0.634,0.714,0.677,0.659,(-2.0697)+(0.0456)Ser+(-0.0057)Gly+(-0.0016)Gln+(-0.0181)Thr+(-0.0255)Arg+(0.0290)Ile;0.661,0.715,0.722,0.757,0.697,0.759,0.657,0.718,(3.7031)+(-0.0014)Gly+(0.0079)Thr+(-0.0601)Cit+(-0.0449)Tyr+(-0.0239)Val+(0.0319)Leu;0.661,0.716,0.744,0.765,0.694,0.826,0.734,0.755,(2.6362)+(0.0003)Gln+(-0.0093)Ala+(0.0104)Pro+(-0.0108)Val+(0.0275)Orn+(-0.0114)Lys;0.661,0.716,0.762,0.779,0.728,0.806,0.759,0.768,(0.4671)+(0.0012)Gln+(-0.0022)Thr+(-0.0106)Ala+(-0.0248)Arg+(0.0192)Orn+(0.0337)Phe;0.661,0.721,0.742,0.755,0.668,0.832,0.797,0.763,(2.9878)+(0.0048)Thr+(-0.0096)Ala+(0.0105)Pro+(-0.0296)Val+(-0.0124)Lys+(0.0436)Leu;0.661,0.708,0.759,0.808,0.683,0.814,0.748,0.763,(3.0937)+(-0.0031)Gly+(0.0021)Gln+(-0.0084)Ala+(0.013

5)Pro+(-0.0397)Tyr+(-0.0092)Val;0.661,0.721,0.662,0.701,0.638,0.772,0.526,0.660,(1.4335)+(0.0268)Ser+(-0.0013)Gln+(0.0087)Pro+(-0.0394)Tyr+(-0.0084)Val+(-0.0122)Lys;0.661,0.716,0.779,0.805,0.765,0.744,0.765,0.770,(1.3270)+(-0.1335)Asn+(0.0049)Gln+(0.0027)Pro+(-0.0084)Lys+(-0.0182)Leu+(0.0538)Phe;0.661,0.720,0.767,0.770,0.763,0.765,0.766,0.766,(1.2790)+(-0.1248)Asn+(0.0043)Gln+(-0.0004)Pro+(0.0173)Orn+(-0.0162)Lys+(0.0342)Phe;0.661,0.719,0.757,0.754,0.734,0.784,0.795,0.767,(1.6928)+(-0.1165)Asn+(0.0047)Gln+(0.0056)Thr+(-0.0033)Pro+(-0.0184)Lys+(0.0358)Ile;0.661,0.718,0.732,0.733,0.717,0.804,0.708,0.741,(3.0886)+(-0.0019)Gly+(-0.0187)Arg+(-0.0339)Val+(0.0377)Orn+(-0.0128)Lys+(0.0406)Leu;0.661,0.718,0.772,0.796,0.710,0.817,0.803,0.782,(2.0109)+(-0.0075)Ala+(-0.0137)Arg+(-0.0272)Val+(-0.0081)Lys+(0.0348)Leu+(0.0539)Phe;0.661,0.716,0.744,0.781,0.686,0.803,0.727,0.749,(3.6980)+(-0.0024)Gly+(0.0073)Thr+(-0.0092)Ala+(0.0122)Pro+(-0.0408)Tyr+(-0.0098)Lys;0.661,0.720,0.648,0.646,0.678,0.772,0.501,0.649,(0.0713)+(0.0319)Ser+(-0.0016)Gln+(-0.0227)Arg+(0.0027)Pro+(0.0197)Orn+(-0.0204)Lys;0.661,0.715,0.714,0.710,0.769,0.788,0.556,0.706,(2.0581)+(0.0002)Gly+(-0.0956)Cit+(-0.0163)Arg+(0.0009)Pro+(0.0441)Orn+(-0.0174)Leu;0.661,0.713,0.726,0.717,0.730,0.743,0.728,0.729,(2.5380)+(-0.0993)Asn+(0.0102)Thr+(-0.0132)Arg+(-0.0167)Lys+(0.0260)Ile+(0.0268)Phe;0.661,0.717,0.726,0.721,0.770,0.790,0.599,0.720,(2.2964)+(-0.0068)Thr+(-0.0964)Cit+(-0.0127)Arg+(0.0015)Pro+(0.0474)Orn+(-0.0171)Leu;0.661,0.719,0.784,0.813,0.770,0.750,0.760,0.773,(1.1956)+(-0.1348)Asn+(0.0010)Gly+(0.0049)Gln+(-0.0082)Lys+(-0.0167)Leu+(0.0559)Phe;0.661,0.717,0.716,0.703,0.715,0.745,0.735,0.724,(1.9971)+(-0.1101)Asn+(0.0023)Gly+(0.0063)Thr+(-0.0185)Lys+(0.0277)Ile+(0.0274)Phe;0.661,0.713,0.762,0.802,0.704,0.795,0.755,0.764,(1.2502)+(0.0013)Gln+(-0.0101)Ala+(-0.0224)Arg+(0.0107)Pro+(-0.0147)Val+(0.0545)Phe;0.661,0.

716,0.750,0.756,0.706,0.814,0.780,0.764,(2.2084)+(-0.0018)Gly+(0.0011)Gln+(-0.0108)Ala+(0.0088)Pro+(0.0223)Orn+(-0.0166)Lys;0.661,0.711,0.722,0.757,0.653,0.779,0.733,0.730,(2.6640)+(-0.0027)Gly+(-0.0009)Thr+(-0.0101)Ala+(0.0112)Pro+(-0.0487)Tyr+(0.0207)Orn;0.661,0.704,0.676,0.692,0.690,0.765,0.538,0.671,(0.9976)+(0.0261)Ser+(-0.0006)Gln+(-0.0559)Cit+(-0.0202)Arg+(0.0063)Pro+(-0.0124)Val;0.661,0.715,0.755,0.796,0.721,0.806,0.680,0.751,(3.5812)+(-0.0022)Gly+(-0.0062)Ala+(-0.0196)Arg+(-0.0370)Tyr+(0.0337)Orn+(-0.0056)Leu;0.661,0.724,0.750,0.759,0.772,0.775,0.662,0.742,(4.8864)+(-0.0989)Asn+(0.0126)Thr+(-0.0702)Cit+(0.0035)Pro+(-0.0083)Lys+(-0.0049)Leu;0.661,0.715,0.795,0.849,0.763,0.787,0.727,0.782,(3.0678)+(-0.1007)Asn+(-0.0012)Gly+(0.0069)Gln+(-0.0147)Arg+(-0.0350)Tyr+(-0.0058)Leu;0.661,0.710,0.686,0.716,0.672,0.787,0.559,0.684,(0.5914)+(0.0303)Ser+(-0.0010)Gln+(-0.0090)Thr+(-0.0249)Arg+(0.0077)Pro+(-0.0139)Val;0.661,0.720,0.722,0.762,0.704,0.730,0.644,0.710,(4.5755)+(-0.0964)Asn+(-0.0007)Gly+(0.0143)Thr+(0.0056)Pro+(-0.0475)Tyr+(-0.0076)Lys;0.661,0.712,0.771,0.796,0.748,0.836,0.706,0.771,(3.5424)+(-0.0016)Gly+(-0.0061)Ala+(-0.0182)Arg+(-0.0105)Val+(0.0375)Orn+(-0.0065)Lys;0.661,0.718,0.782,0.822,0.781,0.747,0.703,0.763,(1.3287)+(-0.1453)Asn+(0.0054)Gln+(0.0100)Thr+(-0.0223)Arg+(-0.0222)Leu+(0.0582)Phe;0.661,0.714,0.719,0.708,0.727,0.759,0.702,0.724,(3.0177)+(-0.0895)Asn+(0.0072)Thr+(-0.0138)Arg+(0.0177)Orn+(-0.0169)Lys+(0.0283)Ile;0.661,0.717,0.780,0.799,0.774,0.757,0.759,0.772,(1.2210)+(-0.1192)Asn+(0.0058)Gln+(-0.0147)Arg+(0.0006)Pro+(-0.0114)Lys+(0.0380)Phe;0.661,0.721,0.723,0.761,0.722,0.778,0.587,0.712,(2.7992)+(0.0036)Gln+(0.0070)Thr+(-0.0783)Cit+(0.0054)Pro+(-0.0484)Tyr+(-0.0142)Lys;0.661,0.716,0.743,0.764,0.679,0.819,0.763,0.756,(2.9709)+(0.0054)Thr+(-0.0097)Ala+(-0.0200)Arg+(0.0115)Pro+(-0.0305)Val+(0.0393)Leu;0.661,0.715,0.759,0.780,0.705,0.800,0.785,0.768,(1.1077)+(0.0009)Gln+(-0.0112)Ala

+(0.0095)Pro+(-0.0148)Lys+(-0.0079)Leu+(0.0456)Phe;0.661,0.717,0.677,0.649,0.704,0.773,0.627,0.688,(2.0383)+(0.0035)Gly+(0.0039)Thr+(-0.0901)Cit+(-0.0046)Pro+(-0.0254)Lys+(0.0533)Ile;0.661,0.715,0.778,0.797,0.775,0.843,0.689,0.776,(4.2122)+(0.0102)Thr+(-0.0075)Ala+(-0.0748)Cit+(-0.0023)Arg+(-0.0022)Val+(-0.0090)Lys;0.661,0.710,0.737,0.786,0.680,0.797,0.681,0.736,(2.5026)+(0.0022)Gln+(0.0058)Thr+(-0.0096)Ala+(-0.0217)Arg+(0.0120)Pro+(-0.0435)Tyr;0.661,0.721,0.753,0.767,0.677,0.833,0.815,0.773,(2.7550)+(0.0009)Gln+(-0.0096)Ala+(0.0108)Pro+(-0.0284)Val+(-0.0113)Lys+(0.0415)Leu;0.661,0.716,0.753,0.788,0.760,0.721,0.673,0.735,(2.3533)+(-0.1136)Asn+(0.0028)Gly+(-0.0153)Arg+(0.0041)Pro+(-0.0222)Leu+(0.0607)Phe;0.661,0.712,0.715,0.760,0.699,0.748,0.605,0.703,(3.8921)+(-0.0012)Gly+(0.0053)Thr+(-0.0637)Cit+(0.0083)Pro+(-0.0489)Tyr+(-0.0099)Val;0.661,0.711,0.767,0.802,0.752,0.721,0.737,0.753,(1.0069)+(-0.1502)Asn+(0.0013)Gly+(0.0043)Gln+(0.0027)Pro+(-0.0226)Leu+(0.0543)Phe;0.660,0.723,0.684,0.696,0.697,0.792,0.550,0.684,(-0.1153)+(0.0315)Ser+(-0.0098)Thr+(-0.0207)Arg+(0.0248)Orn+(-0.0163)Lys+(-0.0039)Leu;0.660,0.711,0.785,0.813,0.767,0.833,0.712,0.781,(2.5983)+(0.0034)Gln+(0.0042)Thr+(-0.0079)Ala+(-0.0728)Cit+(-0.0101)Arg+(-0.0048)Val;0.660,0.704,0.757,0.805,0.693,0.798,0.731,0.757,(2.6337)+(-0.0022)Gly+(0.0032)Gln+(-0.0094)Ala+(-0.0185)Arg+(0.0121)Pro+(-0.0423)Tyr;0.660,0.716,0.758,0.788,0.759,0.764,0.672,0.746,(3.4385)+(0.0007)Gly+(-0.0069)Arg+(-0.0065)Tyr+(-0.1849)Met+(-0.0021)Lys+(0.0046)Leu;0.660,0.719,0.718,0.768,0.712,0.795,0.544,0.705,(3.6299)+(0.0069)Thr+(-0.0223)Arg+(-0.0394)Tyr+(-0.0116)Val+(0.0368)Orn+(-0.0071)Lys;0.660,0.718,0.747,0.741,0.729,0.776,0.776,0.756,(1.6325)+(-0.1185)Asn+(0.0008)Gly+(0.0044)Gln+(0.0045)Thr+(-0.0180)Lys+(0.0318)Ile;0.660,0.715,0.746,0.753,0.705,0.813,0.763,0.759,(2.6280)+(-0.0015)Gly+(-0.0105)Ala+(0.0094)Pro+(0.0240)Orn+(-0.0148)Lys+(-0.0036)Leu;0.660,0.714,0.726,0.744,0

.641,0.787,0.808,0.745,(1.3566)+(-0.0010)Gln+(-0.0110)Ala+(0.0100)Pro+(-0.0292)Val+(0.0312)Leu+(0.0393)Phe;0.660,0.713,0.697,0.663,0.715,0.765,0.702,0.711,(0.7375)+(0.0032)Gln+(0.0009)Thr+(-0.0917)Cit+(-0.0285)Lys+(0.0406)Ile+(0.0225)Phe;0.660,0.720,0.601,0.572,0.608,0.704,0.587,0.618,(-2.6557)+(0.0402)Ser+(-0.0025)Gln+(-0.0186)Thr+(-0.0267)Arg+(0.0295)Ile+(0.0119)Phe;0.660,0.718,0.738,0.782,0.711,0.809,0.626,0.732,(3.4574)+(0.0076)Thr+(-0.0063)Ala+(-0.0184)Arg+(-0.0355)Tyr+(0.0320)Orn+(-0.0102)Lys;0.660,0.715,0.670,0.637,0.702,0.765,0.621,0.681,(1.9074)+(0.0036)Gly+(0.0022)Thr+(-0.0898)Cit+(-0.0001)Arg+(-0.0250)Lys+(0.0471)Ile;0.660,0.725,0.646,0.672,0.625,0.754,0.543,0.649,(0.1411)+(0.0293)Ser+(-0.0100)Thr+(0.0058)Pro+(-0.0438)Tyr+(0.0229)Orn+(-0.0173)Lys;0.660,0.718,0.755,0.783,0.699,0.807,0.760,0.763,(1.4395)+(0.0082)Thr+(-0.0084)Ala+(-0.0229)Arg+(-0.0296)Val+(0.0328)Leu+(0.0530)Phe;0.660,0.713,0.692,0.689,0.637,0.752,0.773,0.713,(-0.2673)+(0.0381)Ser+(-0.0084)Gly+(-0.0161)Thr+(0.0055)Pro+(-0.0299)Val+(0.0299)Leu;0.660,0.710,0.757,0.799,0.694,0.817,0.734,0.761,(3.9848)+(-0.0018)Gly+(-0.0081)Ala+(0.0138)Pro+(-0.0335)Tyr+(-0.0078)Val+(-0.0042)Lys;0.660,0.707,0.752,0.804,0.694,0.805,0.697,0.750,(2.6203)+(0.0028)Gln+(-0.0090)Ala+(-0.0191)Arg+(0.0127)Pro+(-0.0388)Tyr+(-0.0048)Leu;0.660,0.714,0.722,0.722,0.772,0.794,0.568,0.714,(1.7966)+(-0.0002)Gly+(0.0010)Gln+(-0.0956)Cit+(-0.0172)Arg+(0.0434)Orn+(-0.0172)Leu;0.660,0.722,0.719,0.718,0.663,0.834,0.754,0.742,(0.2749)+(0.0323)Ser+(-0.0071)Gly+(-0.0023)Gln+(-0.0092)Ala+(0.0153)Orn+(-0.0054)Leu;0.660,0.715,0.712,0.699,0.709,0.755,0.722,0.721,(2.5845)+(-0.0991)Asn+(0.0015)Gly+(0.0039)Thr+(0.0154)Orn+(-0.0185)Lys+(0.0301)Ile;0.660,0.717,0.754,0.792,0.699,0.794,0.738,0.755,(1.5776)+(0.0044)Thr+(-0.0101)Ala+(-0.0231)Arg+(0.0107)Pro+(-0.0152)Val+(0.0565)Phe;0.660,0.717,0.713,0.761,0.707,0.764,0.562,0.698,(4.0345)+(0.0083)Thr+(-0.0553)Cit+(-0.0127)Arg+(0.0086)

Pro+(-0.0467)Tyr+(-0.0101)Val;0.660,0.714,0.742,0.794,0.666,0.816,0.708,0.746,(2.8299)+(0.0011)Gln+(0.0009)Thr+(-0.0086)Ala+(0.0135)Pro+(-0.0376)Tyr+(-0.0092)Val;0.660,0.707,0.760,0.773,0.719,0.822,0.765,0.770,(2.5357)+(0.0020)Gln+(0.0035)Thr+(-0.0089)Ala+(-0.0731)Cit+(-0.0218)Val+(0.0343)Leu;0.660,0.720,0.808,0.846,0.774,0.841,0.753,0.803,(5.0104)+(-0.0854)Asn+(0.0011)Gly+(-0.0038)Ala+(-0.0078)Arg+(-0.0096)Val+(0.0033)Lys;0.660,0.716,0.737,0.737,0.776,0.802,0.609,0.731,(1.7969)+(0.0016)Gln+(-0.0076)Thr+(-0.0973)Cit+(-0.0139)Arg+(0.0464)Orn+(-0.0165)Leu;0.660,0.714,0.749,0.772,0.747,0.725,0.708,0.738,(2.3243)+(-0.1167)Asn+(0.0023)Gly+(0.0036)Pro+(-0.0069)Lys+(-0.0187)Leu+(0.0584)Phe;0.660,0.712,0.752,0.797,0.701,0.816,0.696,0.753,(4.0608)+(-0.0079)Ala+(-0.0142)Arg+(0.0141)Pro+(-0.0311)Tyr+(-0.0085)Val+(-0.0006)Lys;0.660,0.714,0.768,0.805,0.717,0.816,0.738,0.769,(2.8390)+(-0.0036)Gly+(0.0025)Gln+(-0.0064)Ala+(-0.0376)Tyr+(0.0309)Orn+(-0.0136)Lys;0.660,0.723,0.682,0.657,0.672,0.770,0.703,0.701,(-0.1654)+(0.0440)Ser+(-0.0083)Gly+(-0.0009)Gln+(-0.0128)Thr+(0.0241)Orn+(-0.0217)Lys;0.660,0.715,0.710,0.683,0.717,0.774,0.719,0.723,(0.7200)+(0.0037)Gln+(-0.0918)Cit+(-0.0054)Pro+(-0.0283)Lys+(0.0476)Ile+(0.0240)Phe;0.660,0.716,0.756,0.806,0.717,0.822,0.656,0.750,(2.4409)+(0.0022)Gln+(-0.0066)Ala+(-0.0231)Arg+(-0.0367)Tyr+(0.0298)Orn+(-0.0053)Leu;0.660,0.713,0.712,0.707,0.714,0.758,0.684,0.716,(2.8278)+(-0.0938)Asn+(0.0023)Gly+(0.0087)Thr+(-0.0134)Arg+(-0.0152)Lys+(0.0341)Ile;0.660,0.714,0.689,0.699,0.635,0.721,0.755,0.702,(-1.6841)+(0.0393)Ser+(-0.0076)Gly+(-0.0190)Thr+(0.0054)Pro+(-0.0178)Val+(0.0407)Phe;0.660,0.719,0.744,0.752,0.703,0.813,0.758,0.756,(2.4588)+(-0.0037)Thr+(-0.0105)Ala+(0.0097)Pro+(0.0248)Orn+(-0.0140)Lys+(-0.0035)Leu;0.660,0.716,0.716,0.749,0.692,0.757,0.648,0.712,(3.9328)+(-0.0520)Cit+(-0.0081)Arg+(0.0080)Pro+(-0.0423)Tyr+(-0.0239)Val+(0.0285)Leu;0.660,0.711,0.701,0.775,0.648,0.646,0.654,0

.681,(0.7670)+(-0.0034)Gly+(0.0012)Gln+(0.0062)Pro+(-0.0810)Tyr+(-0.0222)Leu+(0.0739)Phe;0.660,0.716,0.622,0.580,0.664,0.714,0.580,0.634,(-1.1851)+(0.0348)Ser+(-0.0039)Gly+(-0.0017)Gln+(-0.0699)Cit+(-0.0233)Arg+(0.0271)Ile;0.660,0.714,0.754,0.802,0.686,0.826,0.717,0.758,(3.0011)+(0.0019)Gln+(-0.0083)Ala+(0.0133)Pro+(-0.0338)Tyr+(-0.0075)Val+(-0.0065)Lys;0.660,0.715,0.752,0.762,0.681,0.835,0.814,0.773,(2.1429)+(-0.0019)Gly+(-0.0025)Thr+(-0.0082)Ala+(-0.0325)Val+(0.0297)Orn+(0.0409)Leu;0.660,0.711,0.756,0.802,0.698,0.812,0.714,0.757,(2.6969)+(0.0031)Gln+(-0.0090)Ala+(-0.0158)Arg+(0.0122)Pro+(-0.0364)Tyr+(-0.0064)Lys;0.659,0.711,0.763,0.807,0.716,0.810,0.708,0.760,(2.5259)+(-0.0030)Gly+(0.0029)Gln+(-0.0070)Ala+(-0.0223)Arg+(-0.0413)Tyr+(0.0283)Orn;0.659,0.699,0.665,0.660,0.651,0.718,0.668,0.674,(-0.8961)+(0.0299)Ser+(-0.0055)Gly+(-0.0683)Cit+(-0.0259)Val+(0.0206)Leu+(0.0372)Phe;0.659,0.725,0.726,0.770,0.709,0.739,0.635,0.713,(4.6498)+(-0.0991)Asn+(0.0133)Thr+(0.0065)Pro+(-0.0450)Tyr+(-0.0054)Lys+(-0.0058)Leu;0.659,0.726,0.692,0.673,0.677,0.776,0.713,0.710,(-0.2920)+(0.0429)Ser+(-0.0086)Gly+(-0.0132)Thr+(0.0241)Orn+(-0.0212)Lys+(-0.0022)Leu;0.659,0.712,0.712,0.689,0.720,0.783,0.701,0.724,(1.3860)+(0.0035)Gln+(0.0026)Thr+(-0.0901)Cit+(-0.0054)Pro+(-0.0270)Lys+(0.0514)Ile;0.659,0.715,0.725,0.722,0.717,0.764,0.724,0.732,(2.7554)+(-0.0825)Asn+(0.0026)Gly+(-0.0100)Arg+(-0.0016)Pro+(-0.0142)Lys+(0.0381)Ile;0.659,0.720,0.709,0.742,0.716,0.763,0.570,0.698,(3.9746)+(-0.0002)Gly+(0.0100)Thr+(-0.0722)Cit+(0.0059)Pro+(-0.0482)Tyr+(-0.0124)Lys;0.659,0.717,0.648,0.624,0.636,0.715,0.690,0.666,(-2.7085)+(0.0447)Ser+(-0.0060)Gly+(-0.0194)Thr+(-0.0275)Arg+(0.0258)Ile+(0.0073)Phe;0.659,0.717,0.725,0.708,0.719,0.767,0.755,0.737,(2.8098)+(-0.0943)Asn+(0.0052)Thr+(-0.0030)Pro+(0.0168)Orn+(-0.0191)Lys+(0.0329)Ile;0.659,0.718,0.700,0.750,0.664,0.764,0.598,0.694,(3.3844)+(0.0100)Thr+(-0.0230)Arg+(0.0078)Pro+(-0.0472)Tyr+(-0.028

8)Val+(0.0328)Leu;0.659,0.716,0.729,0.776,0.723,0.759,0.596,0.713,(2.4744)+(0.0037)Gln+(-0.0669)Cit+(-0.0123)Arg+(0.0069)Pro+(-0.0502)Tyr+(-0.0082)Leu;0.659,0.701,0.668,0.670,0.656,0.746,0.631,0.676,(0.1715)+(0.0288)Ser+(-0.0144)Thr+(-0.0669)Cit+(0.0054)Pro+(-0.0238)Val+(0.0255)Leu;0.659,0.722,0.670,0.671,0.612,0.817,0.685,0.696,(0.2384)+(0.0251)Ser+(-0.0036)Gln+(-0.0120)Ala+(0.0108)Pro+(0.0113)Orn+(-0.0069)Leu;0.659,0.719,0.742,0.788,0.722,0.739,0.661,0.728,(4.6809)+(-0.0776)Asn+(0.0006)Gly+(-0.0101)Arg+(0
.0078)Pro+(-0.0384)Tyr+(-0.0082)Leu;0.659,0.712,0.745,0.795,0.704,0.813,0.651,0.741,(2.2934)+(0.0019)Gln+(0.0037)Thr+(-0.0072)Ala+(-0.0242)Arg+(-0.0401)Tyr+(0.0264)Orn;0.659,0.711,0.703,0.745,0.699,0.730,0.580,0.689,(3.4127)+(-0.0006)Gly+(0.0040)Thr+(-0.0714)Cit+(0.0068)Pro+(-0.0534)Tyr+(-0.0071)Leu;0.659,0.716,0.671,0.721,0.675,0.666,0.536,0.649,(1.4303)+(0.0001)Gly+(0.0097)Thr+(-0.0687)Cit+(-0.0138)Arg+(-0.0759)Tyr+(0.0657)Phe;0.659,0.719,0.625,0.576,0.683,0.731,0.557,0.637,(-0.4202)+(0.0292)Ser+(-0.0043)Gly+(-0.0032)Gln+(-0.1050)Cit+(-0.0022)Pro+(0.0314)Orn;0.659,0.717,0.790,0.843,0.759,0.792,0.715,0.777,(2.9939)+(-0.1002)Asn+(0.0067)Gln+(-0.0138)Arg+(-0.0332)Tyr+(-0.0023)Lys+(-0.0044)Leu;0.659,0.710,0.633,0.630,0.597,0.723,0.653,0.651,(-0.9520)+(0.0335)Ser+(-0.0041)Gln+(-0.0141)Thr+(-0.0304)Val+(0.0287)Leu+(0.0445)Phe;0.659,0.719,0.793,0.833,0.755,0.819,0.747,0.788,(4.6688)+(-0.0693)Asn+(0.0008)Gly+(-0.0048)Ala+(-0.0063)Arg+(-0.0214)Tyr+(-0.0006)Lys;0.659,0.714,0.790,0.835,0.738,0.815,0.762,0.787,(1.0346)+(0.0025)Gln+(-0.0073)Ala+(-0.0185)Arg+(-0.0115)Val+(-0.0070)Lys+(0.0606)Phe;0.659,0.720,0.652,0.625,0.643,0.724,0.691,0.671,(-2.4967)+(0.0442)Ser+(-0.0062)Gly+(-0.0203)Thr+(-0.0274)Arg+(0.0074)Orn+(0.0256)Ile;0.659,0.713,0.734,0.781,0.686,0.799,0.666,0.733,(3.4642)+(0.0077)Thr+(-0.0092)Ala+(-0.0196)Arg+(0.0129)Pro+(-0.0412)Tyr+(-0.0042)Leu;0.659,0.714,0

.701,0.669,0.717,0.767,0.703,0.714,(0.7275)+(0.0034)Gln+(-0.0894)Cit+(-0.0025)Arg+(-0.0276)Lys+(0.0404)Ile+(0.0225)Phe;0.659,0.718,0.672,0.706,0.691,0.745,0.493,0.659,(-1.9183)+(0.0263)Ser+(-0.0382)Arg+(0.0025)Pro+(0.0109)Orn+(-0.0253)Leu+(0.0450)Phe;0.659,0.715,0.756,0.787,0.713,0.808,0.725,0.758,(3.5019)+(-0.0025)Gly+(-0.0063)Ala+(-0.0354)Tyr+(0.0329)Orn+(-0.0124)Lys+(0.0007)Leu;0.659,0.708,0.748,0.759,0.713,0.819,0.739,0.758,(3.0989)+(0.0010)Gly+(0.0052)Thr+(-0.0087)Ala+(-0.0712)Cit+(-0.0227)Val+(0.0365)Leu;0.659,0.715,0.708,0.726,0.690,0.789,0.642,0.712,(2.1533)+(-0.0001)Gln+(-0.0272)Arg+(0.0036)Pro+(-0.0349)Val+(0.0307)Orn+(0.0329)Leu;0.659,0.715,0.756,0.760,0.755,0.755,0.748,0.755,(1.3069)+(-0.1317)Asn+(0.0042)Gln+(0.0051)Thr+(0.0152)Orn+(-0.0171)Lys+(0.0345)Phe;0.659,0.710,0.694,0.736,0.690,0.744,0.553,0.681,(3.2739)+(-0.0195)Arg+(0.0059)Pro+(-0.0484)Tyr+(0.0318)Orn+(-0.0091)Lys+(-0.0094)Leu;0.659,0.719,0.752,0.803,0.694,0.824,0.688,0.752,(2.5815)+(0.0005)Gln+(-0.0014)Thr+(-0.0059)Ala+(-0.0340)Tyr+(-0.0100)Val+(0.0314)Orn;0.659,0.702,0.669,0.670,0.661,0.753,0.623,0.677,(0.6955)+(0.0292)Ser+(-0.0014)Gln+(-0.0109)Thr+(-0.0643)Cit+(-0.0245)Val+(0.0306)Leu;0.659,0.718,0.670,0.655,0.662,0.729,0.683,0.682,(-0.9890)+(0.0438)Ser+(-0.0081)Gly+(-0.0018)Gln+(-0.0249)Lys+(-0.0082)Leu+(0.0464)Phe;0.659,0.713,0.770,0.804,0.758,0.725,0.735,0.756,(1.0413)+(-0.1586)Asn+(0.0010)Gly+(0.0043)Gln+(0.0052)Thr+(-0.0220)Leu+(0.0554)Phe;0.659,0.716,0.734,0.778,0.689,0.799,0.667,0.733,(3.6539)+(0.0096)Thr+(-0.0091)Ala+(-0.0165)Arg+(0.0123)Pro+(-0.0392)Tyr+(-0.0067)Lys;0.659,0.725,0.714,0.749,0.646,0.830,0.677,0.726,(0.3972)+(0.0284)Ser+(-0.0011)Gln+(-0.0078)Thr+(-0.0067)Ala+(-0.0298)Tyr+(0.0033)Leu;0.658,0.723,0.621,0.597,0.629,0.739,0.587,0.638,(-1.6715)+(0.0386)Ser+(-0.0027)Gln+(-0.0142)Thr+(0.0197)Orn+(-0.0244)Lys+(0.0398)Phe;0.658,0.716,0.679,0.650,0.703,0.774,0.640,0.692,(2.0314)+(0.0037)Gly+(-0.0905)Cit+(0.0027)

Arg+(-0.0042)Pro+(-0.0247)Lys+(0.0535)Ile;0.658,0.702,0.671,0.672,0.685,0.743,0.588,0.672,(-0.1602)+(0.0316)Ser+(-0.0004)Gln+(-0.0177)Thr+(-0.0781)Cit+(0.0051)Pro+(-0.0090)Leu;0.658,0.725,0.604,0.572,0.614,0.713,0.587,0.621,(-2.2835)+(0.0392)Ser+(-0.0025)Gln+(-0.0193)Thr+(-0.0263)Arg+(0.0081)Orn+(0.0303)Ile;0.658,0.716,0.749,0.775,0.692,0.793,0.769,0.757,(0.8677)+(-0.0013)Gly+(-0.0009)Gln+(-0.0087)Ala+(-0.0162)Val+(0.0253)Orn+(0.0513)Phe;0.658,0.713,0.736,0.773,0.731,0.778,0.620,0.726,(2.6439)+(0.0044)Gln+(-0.0729)Cit+(-0.0049)Arg+(0.0057)Pro+(-0.0450)Tyr+(-0.0114)Lys;0.658,0.708,0.758,0.772,0.723,0.822,0.748,0.766,(3.3926)+(0.0016)Gly+(-0.0079)Ala+(-0.0655)Cit+(-0.0037)Arg+(-0.0222)Val+(0.0363)Leu;0.658,0.716,0.742,0.753,0.671,0.836,0.793,0.763,(2.1649)+(-0.0008)Gln+(-0.0027)Thr+(-0.0082)Ala+(-0.0327)Val+(0.0301)Orn+(0.0418)Leu;0.658,0.715,0.774,0.807,0.744,0.847,0.695,0.773,(2.6516)+(0.0020)Gln+(-0.0064)Ala+(-0.0205)Arg+(-0.0102)Val+(0.0346)Orn+(-0.0075)Lys;0.658,0.722,0.715,0.720,0.705,0.808,0.654,0.722,(2.7453)+(0.0052)Thr+(-0.0212)Arg+(-0.0346)Val+(0.0348)Orn+(-0.0143)Lys+(0.0421)Leu;0.658,0.717,0.701,0.747,0.669,0.764,0.600,0.695,(2.8656)+(0.0005)Gln+(0.0068)Pro+(-0.0459)Tyr+(-0.0121)Val+(0.0312)Orn+(-0.0111)Lys;0.658,0.712,0.692,0.763,0.644,0.642,0.638,0.672,(1.0809)+(-0.0032)Gly+(0.0025)Thr+(0.0062)Pro+(-0.0817)Tyr+(-0.0222)Leu+(0.0753)Phe;0.658,0.710,0.753,0.778,0.701,0.789,0.771,0.759,(0.5805)+(0.0001)Gly+(0.0012)Gln+(-0.0125)Ala+(-0.0235)Arg+(0.0089)Pro+(0.0335)Phe;0.658,0.718,0.641,0.607,0.674,0.730,0.598,0.652,(-1.4980)+(0.0331)Ser+(-0.0042)Gly+(-0.0719)Cit+(-0.0240)Arg+(-0.0035)Pro+(0.0302)Ile;0.658,0.708,0.750,0.793,0.696,0.798,0.713,0.750,(3.7514)+(-0.0010)Gly+(-0.0090)Ala+(-0.0148)Arg+(0.0132)Pro+(-0.0371)Tyr+(-0.0041)Leu;0.658,0.712,0.692,0.656,0.716,0.768,0.684,0.706,(1.8437)+(0.0055)Thr+(-0.0873)Cit+(-0.0051)Pro+(-0.0272)Lys+(0.0465)Ile+(0.0250)Phe;0.658,0.704,0.671,0.678,0.672,0

.769,0.580,0.675,(0.9898)+(0.0268)Ser+(-0.0010)Gln+(-0.0512)Cit+(-0.0177)Arg+(-0.0266)Val+(0.0320)Leu;0.658,0.722,0.658,0.627,0.660,0.749,0.668,0.676,(0.0621)+(0.0414)Ser+(-0.0087)Gly+(-0.0018)Gln+(0.0017)Pro+(0.0187)Orn+(-0.0258)Lys;0.658,0.712,0.766,0.796,0.703,0.812,0.785,0.774,(1.5547)+(0.0004)Gly+(-0.0080)Ala+(-0.0187)Arg+(-0.0279)Val+(0.0316)Leu+(0.0531)Phe;0.658,0.708,0.774,0.792,0.734,0.831,0.769,0.782,(2.5623)+(0.0030)Gln+(-0.0082)Ala+(-0.0661)Cit+(-0.0075)Arg+(-0.0213)Val+(0.0334)Leu;0.658,0.719,0.741,0.750,0.673,0.826,0.799,0.762,(-0.0140)+(0.0382)Ser+(-0.0068)Gly+(-0.0007)Gln+(-0.0121)Thr+(-0.0079)Ala+(-0.0009)Leu;0.658,0.713,0.760,0.781,0.758,0.749,0.719,0.752,(1.3288)+(-0.1310)Asn+(0.0054)Gln+(0.0103)Thr+(-0.0175)Arg+(-0.0131)Lys+(0.0391)Phe;0.658,0.713,0.774,0.807,0.707,0.818,0.793,0.781,(1.1116)+(0.0016)Gln+(-0.0081)Ala+(-0.0207)Arg+(-0.0276)Val+(0.0306)Leu+(0.0511)Phe;0.658,0.709,0.687,0.677,0.641,0.764,0.755,0.709,(0.5478)+(0.0391)Ser+(-0.0077)Gly+(-0.0024)Gln+(-0.0118)Thr+(-0.0307)Val+(0.0362)Leu;0.658,0.723,0.648,0.652,0.628,0.741,0.613,0.658,(-1.2374)+(0.0322)Ser+(-0.0042)Gln+(-0.0181)Thr+(-0.0186)Val+(0.0236)Orn+(0.0516)Phe;0.658,0.716,0.670,0.665,0.659,0.718,0.672,0.678,(-1.9085)+(0.0443)Ser+(-0.0064)Gly+(-0.0011)Gln+(-0.0160)Thr+(-0.0262)Arg+(0.0242)Phe;0.658,0.711,0.751,0.790,0.696,0.803,0.724,0.753,(3.8249)+(-0.0009)Gly+(-0.0090)Ala+(-0.0121)Arg+(0.0128)Pro+(-0.0350)Tyr+(-0.0047)Lys;0.658,0.718,0.793,0.840,0.758,0.785,0.746,0.783,(3.0828)+(-0.1044)Asn+(-0.0013)Gly+(0.0062)Gln+(-0.0354)Tyr+(-0.0051)Lys+(-0.0037)Leu;0.658,0.709,0.713,0.708,0.679,0.788,0.745,0.730,(2.5211)+(-0.0026)Gly+(0.0024)Pro+(-0.0340)Val+(0.0324)Orn+(-0.0181)Lys+(0.0410)Leu;0.657,0.729,0.656,0.681,0.645,0.769,0.531,0.657,(0.6630)+(0.0295)Ser+(-0.0014)Gln+(-0.0077)Thr+(-0.0377)Tyr+(0.0266)Orn+(-0.0163)Lys;0.657,0.719,0.608,0.581,0.613,0.711,0.593,0.624,(-2.2804)+(0.0391)Ser+(-0.0022)Gln+(-0.0178)Thr+(-0.0

258)Arg+(-0.0010)Pro+(0.0337)Ile;0.657,0.712,0.763,0.787,0.766,0.727,0.718,0.749,(2.8674)+(-0.1014)Asn+(-0.0124)Arg+(0.0040)Pro+(-0.0043)Lys+(-0.0200)Leu+(0.0582)Phe;0.657,0.714,0.743,0.763,0.744,0.714,0.709,0.733,(2.2143)+(-0.1367)Asn+(0.0034)Thr+(0.0021)Pro+(0.0193)Orn+(-0.0252)Leu+(0.0523)Phe;0.657,0.718,0.788,0.825,0.746,0.817,0.756,0.786,(4.5388)+(-0.0724)Asn+(0.0007)Gly+(-0.0051)Ala+(-0.0223)Tyr+(-0.0025)Lys+(0.0023)Leu;0.657,0.700,0.671,0.661,0.658,0.747,0.668,0.684,(1.0599)+(0.0325)Ser+(-0.0061)Gly+(-0.0020)Gln+(-0.0590)Cit+(-0.0277)Val+(0.0318)Leu;0.657,0.718,0.791,0.831,0.752,0.815,0.748,0.786,(4.5937)+(-0.0701)Asn+(0.0008)Gly+(-0.0049)Ala+(-0.0066)Arg+(-0.0222)Tyr+(0.0011)Leu;0.657,0.720,0.675,0.716,0.642,0.772,0.567,0.674,(0.9400)+(0.0277)Ser+(-0.0064)Thr+(0.0089)Pro+(-0.0373)Tyr+(-0.0082)Val+(-0.0112)Lys;0.657,0.714,0.693,0.746,0.651,0.742,0.608,0.687,(2.5682)+(-0.0003)Gln+(-0.0042)Thr+(0.0074)Pro+(-0.0500)Tyr+(-0.0148)Val+(0.0293)Orn;0.657,0.709,0.731,0.733,0.750,0.742,0.679,0.726,(2.6333)+(-0.1054)Asn+(0.0090)Thr+(-0.0148)Arg+(0.0204)Orn+(-0.0148)Lys+(0.0361)Phe;0.657,0.725,0.689,0.746,0.678,0.785,0.495,0.676,(0.6098)+(0.0279)Ser+(0.0000)Gln+(-0.0034)Thr+(-0.0235)Arg+(-0.0405)Tyr+(-0.0035)Leu;0.657,0.716,0.708,0.730,0.690,0.766,0.650,0.709,(1.1273)+(-0.0295)Arg+(0.0026)Pro+(-0.0347)Val+(0.0289)Orn+(0.0269)Leu+(0.0343)Phe;0.657,0.715,0.757,0.765,0.756,0.744,0.744,0.752,(0.7237)+(-0.1345)Asn+(0.0051)Gln+(-0.0218)Arg+(0.0082)Orn+(0.0141)Ile+(0.0182)Phe;0.657,0.715,0.722,0.762,0.658,0.789,0.702,0.728,(2.5366)+(-0.0036)Thr+(-0.0096)Ala+(0.0121)Pro+(-0.0434)Tyr+(0.0232)Orn+(-0.0076)Leu;0.657,0.713,0.712,0.734,0.694,0.767,0.652,0.712,(1.2087)+(-0.0003)Gln+(-0.0285)Arg+(-0.0344)Val+(0.0305)Orn+(0.0275)Leu+(0.0363)Phe;0.657,0.709,0.642,0.625,0.608,0.710,0.709,0.663,(-0.2669)+(0.0360)Ser+(-0.0072)Gly+(-0.0044)Gln+(-0.0337)Val+(0.0312)Leu+(0.0356)Phe;0.657,0.723,0.717,0.756,0.706,0.827,0.557,0.7

12,(0.8402)+(0.0292)Ser+(0.0001)Gln+(-0.0032)Thr+(-0.0204)Arg+(-0.0086)Val+(-0.0100)Lys;0.657,0.719,0.689,0.716,0.609,0.783,0.721,0.707,(-2.0397)+(0.0212)Ser+(-0.0130)Ala+(0.0094)Pro+(0.0045)Orn+(-0.0148)Leu+(0.0412)Phe;0.657,0.720,0.708,0.741,0.716,0.763,0.566,0.697,(3.9458)+(0.0097)Thr+(-0.0725)Cit+(0.0060)Pro+(-0.0479)Tyr+(-0.0124)Lys+(-0.0002)Leu;0.657,0.713,0.728,0.728,0.737,0.737,0.703,0.726,(2.2150)+(-0.1158)Asn+(0.0014)Gly+(0.0058)Thr+(0.0185)Orn+(-0.0164)Lys+(0.0368)Phe;0.657,0.711,0.716,0.694,0.724,0.784,0.710,0.728,(1.3576)+(0.0038)Gln+(-0.0882)Cit+(-0.0009)Arg+(-0.0050)Pro+(-0.0260)Lys+(0.0510)Ile;0.657,0.710,0.761,0.802,0.692,0.814,0.759,0.767,(2.8705)+(-0.0027)Gly+(0.0028)Gln+(-0.0091)Ala+(0.0120)Pro+(-0.0392)Tyr+(-0.0098)Lys;0.657,0.711,0.703,0.675,0.721,0.770,0.690,0.714,(1.3365)+(0.0034)Gln+(0.0014)Thr+(-0.0870)Cit+(-0.0030)Arg+(-0.0259)Lys+(0.0439)Ile;0.657,0.710,0.749,0.771,0.699,0.789,0.769,0.757,(0.9251)+(0.0006)Gly+(-0.0005)Thr+(-0.0125)Ala+(-0.0219)Arg+(0.0093)Pro+(0.0353)Phe;0.657,0.707,0.764,0.778,0.723,0.825,0.768,0.773,(2.4692)+(0.0007)Gly+(0.0023)Gln+(-0.0086)Ala+(-0.0733)Cit+(-0.0211)Val
+(0.0338)Leu;0.657,0.699,0.674,0.679,0.675,0.757,0.596,0.677,(0.5385)+(0.0299)Ser+(-0.0007)Gln+(-0.0148)Thr+(-0.0696)Cit+(0.0067)Pro+(-0.0105)Val;0.657,0.727,0.715,0.724,0.657,0.834,0.729,0.736,(-0.2272)+(0.0304)Ser+(-0.0021)Gln+(-0.0160)Thr+(-0.0084)Ala+(0.0219)Orn+(-0.0023)Leu;0.657,0.711,0.781,0.820,0.734,0.808,0.754,0.779,(1.7150)+(0.0004)Gly+(-0.0071)Ala+(-0.0161)Arg+(-0.0117)Val+(-0.0058)Lys+(0.0639)Phe;0.657,0.711,0.715,0.753,0.643,0.784,0.715,0.724,(2.1169)+(0.0003)Gln+(-0.0037)Thr+(-0.0103)Ala+(0.0113)Pro+(-0.0455)Tyr+(0.0198)Orn;0.657,0.724,0.670,0.683,0.694,0.789,0.504,0.667,(-0.0293)+(0.0288)Ser+(-0.0250)Arg+(0.0032)Pro+(0.0197)Orn+(-0.0184)Lys+(-0.0065)Leu;0.657,0.717,0.751,0.782,0.723,0.802,0.692,0.750,(3.0154)+(0.0038)Gln+(-0.0655)Cit

+(-0.0339)Tyr+(-0.0208)Val+(-0.0116)Lys+(0.0330)Leu;0.657,0.704,0.667,0.652,0.697,0.736,0.592,0.669,(-0.2442)+(0.0340)Ser+(-0.0053)Gly+(-0.0006)Gln+(-0.0655)Cit+(-0.0217)Arg+(0.0013)Pro;0.657,0.709,0.751,0.766,0.706,0.816,0.755,0.761,(1.5405)+(0.0012)Gln+(-0.0042)Thr+(-0.0116)Ala+(-0.0225)Arg+(0.0091)Pro+(0.0198)Orn;0.657,0.714,0.751,0.785,0.708,0.810,0.707,0.752,(3.5663)+(-0.0032)Gly+(0.0058)Thr+(-0.0064)Ala+(-0.0386)Tyr+(0.0312)Orn+(-0.0135)Lys;0.657,0.715,0.770,0.781,0.761,0.757,0.767,0.767,(1.0969)+(-0.1286)Asn+(0.0011)Gly+(0.0048)Gln+(0.0005)Pro+(-0.0139)Lys+(0.0386)Phe;0.657,0.709,0.756,0.780,0.703,0.789,0.777,0.763,(0.5966)+(0.0013)Gln+(-0.0013)Thr+(-0.0125)Ala+(-0.0229)Arg+(0.0090)Pro+(0.0335)Phe;0.657,0.713,0.776,0.793,0.748,0.833,0.747,0.780,(2.2539)+(-0.0019)Gly+(0.0026)Gln+(-0.0080)Ala+(-0.0182)Arg+(0.0285)Orn+(-0.0130)Lys;0.656,0.711,0.787,0.811,0.749,0.819,0.782,0.790,(0.8729)+(-0.0005)Gly+(0.0028)Gln+(-0.0089)Ala+(-0.0167)Arg+(-0.0126)Lys+(0.0456)Phe;0.656,0.715,0.736,0.773,0.730,0.779,0.622,0.726,(2.6857)+(0.0041)Gln+(-0.0763)Cit+(0.0059)Pro+(-0.0451)Tyr+(-0.0120)Lys+(-0.0013)Leu;0.656,0.714,0.718,0.718,0.769,0.793,0.562,0.710,(1.7733)+(0.0009)Gln+(-0.0954)Cit+(-0.0174)Arg+(0.0008)Pro+(0.0430)Orn+(-0.0175)Leu;0.656,0.699,0.673,0.666,0.655,0.742,0.679,0.686,(0.4029)+(0.0298)Ser+(-0.0065)Gly+(-0.0632)Cit+(0.0036)Pro+(-0.0273)Val+(0.0273)Leu;0.656,0.715,0.774,0.799,0.762,0.745,0.750,0.764,(1.3817)+(-0.1445)Asn+(0.0047)Gln+(0.0082)Thr+(-0.0100)Lys+(-0.0172)Leu+(0.0556)Phe;0.656,0.719,0.745,0.790,0.725,0.741,0.672,0.732,(4.7721)+(-0.0758)Asn+(-0.0098)Arg+(0.0078)Pro+(-0.0388)Tyr+(-0.0002)Lys+(-0.0081)Leu;0.656,0.705,0.739,0.758,0.653,0.812,0.818,0.760,(2.4334)+(-0.0013)Gly+(-0.0001)Gln+(-0.0103)Ala+(0.0110)Pro+(-0.0296)Val+(0.0373)Leu;0.656,0.716,0.733,0.776,0.713,0.731,0.665,0.721,(4.4085)+(-0.0762)Asn+(0.0008)Gly+(-0.0087)Arg+(0.0066)Pro+(-0.0401)Tyr+(-0.0032)Lys;0.656,0.715,0.747,0.765

,0.767,0.757,0.653,0.736,(4.6888)+(-0.1063)Asn+(0.0107)Thr+(-0.0657)Cit+(-0.0052)Arg+(0.0039)Pro+(-0.0097)Leu;0.656,0.714,0.747,0.792,0.716,0.785,0.665,0.739,(2.8008)+(0.0033)Gln+(-0.0566)Cit+(-0.0106)Arg+(-0.0384)Tyr+(-0.0218)Val+(0.0283)Leu;0.656,0.718,0.654,0.631,0.640,0.726,0.691,0.672,(-2.4156)+(0.0442)Ser+(-0.0060)Gly+(-0.0186)Thr+(-0.0268)Arg+(-0.0013)Pro+(0.0293)Ile;0.656,0.713,0.767,0.789,0.741,0.833,0.717,0.770,(2.1064)+(0.0021)Gln+(0.0012)Thr+(-0.0080)Ala+(-0.0189)Arg+(0.0278)Orn+(-0.0129)Lys;0.656,0.714,0.630,0.593,0.668,0.711,0.590,0.640,(-1.8870)+(0.0333)Ser+(-0.0041)Gly+(-0.0725)Cit+(-0.0256)Arg+(0.0232)Ile+(0.0080)Phe;0.656,0.717,0.751,0.777,0.693,0.791,0.772,0.758,(0.7699)+(-0.0008)Gln+(-0.0045)Thr+(-0.0085)Ala+(-0.0158)Val+(0.0267)Orn+(0.0521)Phe;0.656,0.713,0.761,0.792,0.740,0.842,0.665,0.760,(3.2656)+(0.0037)Thr+(-0.0063)Ala+(-0.0200)Arg+(-0.0105)Val+(0.0354)Orn+(-0.0073)Lys;0.656,0.717,0.787,0.820,0.763,0.826,0.724,0.783,(4.2633)+(-0.0953)Asn+(0.0006)Gly+(0.0131)Thr+(-0.0064)Ala+(-0.0128)Arg+(-0.0026)Leu;0.656,0.716,0.699,0.744,0.667,0.764,0.596,0.693,(3.0178)+(0.0001)Thr+(0.0069)Pro+(-0.0458)Tyr+(-0.0122)Val+(0.0318)Orn+(-0.0108)Lys;0.656,0.713,0.744,0.790,0.707,0.799,0.661,0.739,(3.3589)+(-0.0026)Gly+(0.0069)Thr+(-0.0070)Ala+(-0.0221)Arg+(-0.0429)Tyr+(0.0287)Orn;0.656,0.710,0.717,0.738,0.715,0.762,0.631,0.711,(1.4807)+(-0.0236)Arg+(0.0031)Pro+(-0.0186)Val+(0.0311)Orn+(-0.0113)Lys+(0.0472)Phe;0.656,0.718,0.634,0.618,0.629,0.740,0.610,0.649,(-2.3562)+(0.0361)Ser+(-0.0163)Thr+(0.0018)Pro+(0.0171)Orn+(-0.0252)Lys+(0.0352)Phe;0.656,0.709,0.770,0.795,0.760,0.831,0.679,0.766,(3.6551)+(0.0008)Gly+(0.0067)Thr+(-0.0077)Ala+(-0.0709)Cit+(-0.0072)Arg+(-0.0046)Val;0.656,0.720,0.706,0.741,0.716,0.762,0.557,0.694,(4.0017)+(0.0110)Thr+(-0.0685)Cit+(-0.0055)Arg+(0.0060)Pro+(-0.0482)Tyr+(-0.0115)Lys;0.656,0.718,0.727,0.738,0.689,0.801,0.726,0.738,(0.8194)+(0.0404)Ser+(-0.0087)Gly+(-0.0001)Gln+(

-0.0066)Thr+(-0.0080)Val+(-0.0147)Lys;0.656,0.716,0.638,0.626,0.610,0.769,0.636,0.660,(0.3654)+(0.0299)Ser+(-0.0043)Gln+(-0.0153)Thr+(-0.0336)Val+(0.0268)Orn+(0.0383)Leu;0.656,0.712,0.731,0.715,0.724,0.755,0.770,0.741,(2.3562)+(-0.1035)Asn+(0.0081)Thr+(-0.0029)Pro+(-0.0189)Lys+(0.0303)Ile+(0.0264)Phe;0.656,0.721,0.680,0.674,0.667,0.735,0.688,0.691,(-2.2039)+(0.0431)Ser+(-0.0067)Gly+(-0.0189)Thr+(-0.0279)Arg+(0.0123)Orn+(0.0186)Phe;0.656,0.714,0.698,0.662,0.716,0.765,0.711,0.713,(1.8855)+(-0.0866)Cit+(0.0031)Arg+(-0.0046)Pro+(-0.0261)Lys+(0.0465)Ile+(0.0251)Phe;0.656,0.708,0.727,0.753,0.724,0.769,0.634,0.720,(1.2130)+(0.0008)Gln+(-0.0240)Arg+(-0.0178)Val+(0.0315)Orn+(-0.0116)Lys+(0.0485)Phe;0.656,0.707,0.642,0.630,0.688,0.725,0.517,0.640,(-1.8371)+(0.0198)Ser+(-0.1129)Cit+(-0.0009)Pro+(0.0326)Orn+(-0.0223)Leu+(0.0394)Phe;0.656,0.716,0.785,0.834,0.758,0.797,0.703,0.773,(5.3058)+(-0.0865)Asn+(0.0007)Gly+(-0.0084)Arg+(-0.0206)Tyr+(-0.0107)Val+(0.0044)Lys;0.656,0.714,0.705,0.753,0.702,0.739,0.561,0.689,(2.2115)+(0.0031)Gln+(0.0045)Thr+(-0.0692)Cit+(-0.0140)Arg+(0.0054)Pro+(-0.0566)Tyr;0.656,0.711,0.748,0.788,0.696,0.804,0.709,0.749,(3.7279)+(-0.0089)Ala+(-0.0129)Arg+(0.0130)Pro+(-0.0342)Tyr+(-0.0042)Lys+(-0.0019)Leu;0.656,0.726,0.659,0.688,0.641,0.769,0.543,0.660,(0.2405)+(0.0283)Ser+(-0.0083)Thr+(-0.0388)Tyr+(0.0251)Orn+(-0.0175)Lys+(0.0017)Leu;0.656,0.709,0.648,0.628,0.684,0.713,0.577,0.650,(-1.2274)+(0.0351)Ser+(-0.0045)Gly+(-0.0012)Gln+(-0.0688)Cit+(-0.0231)Arg+(0.0245)Phe;0.656,0.707,0.697,0.740,0.684,0.746,0.576,0.686,(2.3530)+(0.0022)Gln+(-0.0198)Arg+(0.0042)Pro+(-0.0505)Tyr+(0.0276)Orn+(-0.0133)Lys;0.656,0.712,0.721,0.735,0.699,0.789,0.678,0.725,(2.4274)+(-0.0020)Gly+(-0.0266)Arg+(0.0036)Pro+(-0.0351)Val+(0.0317)Orn+(0.0328)Leu;0.656,0.711,0.768,0.784,0.747,0.829,0.722,0.771,(3.0516)+(-0.0011)Gly+(-0.0076)Ala+(-0.0164)Arg+(0.0316)Orn+(-0.0110)Lys+(-0.0026)Leu;0.656,0.717,0.740,0.784,0.715,0.736,0

.680,0.729,(4.5343)+(-0.0832)Asn+(0.0004)Gly+(0.0074)Pro+(-0.0391)Tyr+(-0.0026)Lys+(-0.0070)Leu;0.655,0.715,0.687,0.654,0.734,0.748,0.633,0.692,(0.7473)+(-0.0078)Thr+(-0.0998)Cit+(-0.0126)Arg+(-0.0047)Pro+(0.0352)Orn+(0.0224)Ile;0.655,0.719,0.748,0.794,0.690,0.824,0.691,0.750,(3.4777)+(0.0125)Thr+(-0.0060)Ala+(-0.0190)Arg+(-0.0307)Tyr+(-0.0276)Val+(0.0412)Leu;0.655,0.718,0.742,0.791,0.710,0.812,0.625,0.734,(3.1301)+(0.0049)Thr+(-0.0066)Ala+(-0.0227)Arg+(-0.0380)Tyr+(0.0303)Orn+(-0.0049)Leu;0.655,0.709,0.696,0.665,0.717,0.773,0.681,0.709,(2.5131)+(0.0053)Thr+(-0.0851)Cit+(0.0009)Arg+(-0.0047)Pro+(-0.0252)Lys+(0.0506)Ile;0.655,0.699,0.667,0.677,0.702,0.755,0.506,0.660,(0.3081)+(0.0264)Ser+(-0.0005)Gln+(-0.0668)Cit+(-0.0208)Arg+(0.0041)Pro+(-0.0115)Leu;0.655,0.718,0.669,0.681,0.692,0.787,0.501,0.665,(0.3337)+(0.0299)Ser+(-0.0012)Gln+(-0.0230)Arg+(0.0224)Orn+(-0.0182)Lys+(-0.0041)Leu;0.655,0.709,0.788,0.821,0.750,0.814,0.764,0.787,(0.8218)+(0.0027)Gln+(-0.0084)Ala+(-0.0180)Arg+(-0.0105)Lys+(-0.0073)Leu+(0.0524)Phe;0.655,0.724,0.635,0.669,0.619,0.750,0.497,0.634,(0.4076)+(0.0253)Ser+(0.0053)Pro+(-0.0481)Tyr+(0.0202)Orn+(-0.0195)Lys+(-0.0007)Leu;0.655,0.717,0.577,0.516,0.639,0.711,0.510,0.594,(-1.2682)+(0.0266)Ser+(-0.0040)Gln+(-0.1105)Cit+(-0.0055)Pro+(0.0266)Orn+(0.0275)Ile;0.655,0.715,0.738,0.774,0.729,0.776,0.638,0.729,(2.7105)+(-0.0007)Gly+(0.0043)Gln+(-0.0756)Cit+(0.0057)Pro+(-0.0459)Tyr+(-0.0123)Lys;0.655,0.720,0.786,0.814,0.764,0.830,0.724,0.783,(4.3851)+(-0.0897)Asn+(0.0005)Gly+(0.0142)Thr+(-0.0064)Ala+(-0.0109)Arg+(-0.0050)Lys;0.655,0.718,0.787,0.810,0.758,0.837,0.752,0.789,(4.2411)+(-0.0951)Asn+(0.0003)Gly+(0.0123)Thr+(-0.0066)Ala+(-0.0068)Lys+(0.0005)Leu;0.655,0.713,0.715,0.790,0.667,0.659,0.658,0.693,(0.6771)+(-0.0037)Gly+(0.0013)Gln+(0.0030)Thr+(-0.0782)Tyr+(-0.0197)Leu+(0.0760)Phe;0.655,0.716,0.750,0.794,0.713,0.790,0.682,0.745,(3.1808)+(-0.0046)Gly+(0.0020)Gln+(-0.0440)Tyr+(-0.0105)Val+(0.

0356)Orn+(-0.0113)Lys;0.655,0.716,0.750,0.766,0.746,0.734,0.724,0.743,(0.4424)+(-0.1379)Asn+(0.0023)Gly+(0.0050)Gln+(-0.0214)Arg+(0.0177)Ile+(0.0220)Phe;0.655,0.713,0.771,0.796,0.743,0.835,0.716,0.772,(2.1535)+(0.0022)Gln+(-0.0078)Ala+(-0.0190)Arg+(0.0288)Orn+(-0.0120)Lys+(-0.0023)Leu;0.655,0.715,0.742,0.754,0.698,0.815,0.751,0.755,(2.1407)+(0.0007)Gln+(-0.0106)Ala+(0.0093)Pro+(0.0224)Orn+(-0.0155)Lys+(-0.0031)Leu;0.655,0.711,0.721,0.741,0.701,0.765,0.678,0.721,(1.3710)+(-0.0014)Gly+(-0.0283)Arg+(-0.0344)Val+(0.0310)Orn+(0.0276)Leu+(0.0349)Phe;0.655,0.717,0.776,0.818,0.766,0.789,0.678,0.762,(3.9629)+(0.0003)Gly+(-0.0090)Arg+(-0.0015)Tyr+(-0.0072)Val+(-0.1694)Met+(0.0037)Lys;0.655,0.710,0.750,0.786,0.689,0.801,0.745,0.755,(3.6500)+(-0.0015)Gly+(-0.0091)Ala+(0.0126)Pro+(-0.0363)Tyr+(-0.0077)Lys+(-0.0005)Leu;0.655,0.718,0.741,0.793,0.736,0.748,0.610,0.722,(4.9285)+(-0.0942)Asn+(-0.0006)Gly+(0.0175)Thr+(-0.0150)Arg+(-0.0410)Tyr+(-0.0049)Leu;0.655,0.717,0.739,0.764,0.669,0.789,0.786,0.752,(0.8035)+(-0.0073)Thr+(-0.0106)Ala+(0.0098)Pro+(-0.0163)Val+(0.0230)Orn+(0.0443)Phe;0.655,0.710,0.746,0.759,0.705,0.813,0.750,0.757,(1.9805)+(-0.0002)Gly+(-0.0032)Thr+(-0.0116)Ala+(-0.0214)Arg+(0.0093)Pro+(0.0207)Orn;0.655,0.714,0.702,0.748,0.710,0.744,0.537,0.685,(3.6164)+(0.0071)Thr+(-0.0632)Cit+(-0.0118)Arg+(0.0070)Pro+(-0.0519)Tyr+(-0.0073)Leu;0.655,0.709,0.781,0.807,0.748,0.807,0.759,0.780,(1.5800)+(0.0004)Gly+(-0.0083)Ala+(-0.0153)Arg+(-0.0093)Lys+(-0.0072)Leu+(0.0553)Phe;0.655,0.715,0.608,0.572,0.655,0.715,0.526,0.617,(-1.3080)+(0.0302)Ser+(-0.0018)Gln+(-0.0749)Cit+(-0.0221)Arg+(-0.0031)Pro+(0.0337)Ile;0.655,0.722,0.748,0.783,0.681,0.841,0.729,0.758,(3.4325)+(0.0117)Thr+(-0.0061)Ala+(-0.0280)Tyr+(-0.0276)Val+(-0.0122)Lys+(0.0465)Leu;0.655

,0.713,0.753,0.795,0.673,0.815,0.769,0.763,(3.3174)+(-0.0028)Gly+(0.0082)Thr+(-0.0064)Ala+(-0.0352)Tyr+(-0.0275)Val+(0.0409)Leu;0.655,0.70

7,0.755,0.767,0.722,0.831,0.735,0.764,(3.4297)+(0.0080)Thr+(-0.0083)Ala+(-0.0627)Cit+(-0.0079)Arg+(-0.0236)Val+(0.0370)Leu;0.655,0.713,0.697,0.754,0.685,0.751,0.535,0.681,(2.3643)+(0.0017)Gln+(-0.0266)Arg+(0.0062)Pro+(-0.0539)Tyr+(0.0268)Orn+(-0.0144)Leu;0.655,0.710,0.712,0.727,0.695,0.766,0.665,0.713,(-0.0664)+(0.0413)Ser+(-0.0077)Gly+(-0.0130)Thr+(-0.0256)Arg+(0.0056)Pro+(-0.0142)Leu;0.655,0.710,0.722,0.718,0.687,0.797,0.750,0.738,(2.5231)+(-0.0026)Gly+(0.0002)Gln+(-0.0337)Val+(0.0334)Orn+(-0.0181)Lys+(0.0419)Leu;0.655,0.707,0.750,0.766,0.707,0.818,0.750,0.760,(1.5803)+(-0.0008)Gly+(0.0011)Gln+(-0.0118)Ala+(-0.0239)Arg+(0.0088)Pro+(0.0182)Orn;0.655,0.714,0.741,0.794,0.693,0.770,0.677,0.734,(2.9150)+(-0.0047)Gly+(0.0009)Gln+(-0.0003)Thr+(-0.0496)Tyr+(-0.0134)Val+(0.0323)Orn;0.655,0.713,0.746,0.769,0.749,0.729,0.695,0.735,(2.4246)+(-0.1271)Asn+(0.0017)Gly+(0.0094)Thr+(-0.0088)Lys+(-0.0172)Leu+(0.0597)Phe;0.655,0.713,0.747,0.794,0.740,0.805,0.596,0.734,(3.0323)+(0.0037)Gln+(0.0076)Thr+(-0.0733)Cit+(-0.0383)Tyr+(-0.0045)Val+(-0.0115)Lys;0.655,0.712,0.786,0.822,0.726,0.814,0.797,0.790,(1.0854)+(-0.0009)Gly+(0.0015)Gln+(-0.0077)Ala+(-0.0106)Val+(-0.0114)Lys+(0.0572)Phe;0.655,0.717,0.667,0.676,0.617,0.753,0.687,0.683,(-2.0482)+(0.0273)Ser+(-0.0201)Thr+(-0.0304)Val+(0.0200)Orn+(0.0247)Leu+(0.0350)Phe;0.655,0.711,0.594,0.555,0.646,0.695,0.520,0.604,(-1.7313)+(0.0314)Ser+(-0.0023)Gln+(-0.0753)Cit+(-0.0237)Arg+(0.0263)Ile+(0.0126)Phe;0.654,0.711,0.768,0.798,0.755,0.719,0.746,0.755,(1.1540)+(-0.1564)Asn+(0.0044)Gln+(0.0048)Thr+(0.0022)Pro+(-0.0231)Leu+(0.0534)Phe;0.654,0.712,0.732,0.755,0.643,0.790,0.817,0.751,(1.1015)+(-0.0025)Thr+(-0.0110)Ala+(0.0100)Pro+(-0.0285)Val+(0.0300)Leu+(0.0383)Phe;0.654,0.708,0.717,0.711,0.755,0.783,0.605,0.714,(1.5645)+(0.0008)Gly+(0.0007)Gln+(-0.0111)Thr+(-0.1082)Cit+(0.0471)Orn+(-0.0160)Leu;0.654,0.709,0.756,0.777,0.761,0.739,0.702,0.745,(0.7081)+(-0.1386)Asn+(0.0017)Gly+(0.004

8)Gln+(-0.0216)Arg+(0.0119)Orn+(0.0288)Phe;0.654,0.716,0.758,0.784,0.697,0.796,0.786,0.766,(0.7131)+(-0.0012)Gly+(-0.0045)Thr+(-0.0085)Ala+(-0.0158)Val+(0.0263)Orn+(0.0502)Phe;0.654,0.710,0.777,0.804,0.740,0.816,0.754,0.779,(0.8689)+(0.0023)Gln+(0.0055)Thr+(-0.0092)Ala+(-0.0187)Arg+(-0.0138)Lys+(0.0462)Phe;0.654,0.714,0.662,0.668,0.670,0.769,0.550,0.664,(-0.2179)+(0.0352)Ser+(-0.0007)Gln+(-0.0085)Thr+(-0.0188)Arg+(0.0047)Pro+(-0.0160)Lys;0.654,0.714,0.744,0.789,0.677,0.814,0.714,0.748,(2.6922)+(0.0018)Gln+(0.0036)Thr+(-0.0093)Ala+(0.0119)Pro+(-0.0385)Tyr+(-0.0109)Lys;0.654,0.702,0.738,0.786,0.658,0.786,0.746,0.744,(2.4297)+(-0.0030)Gly+(0.0016)Gln+(0.0015)Thr+(-0.0100)Ala+(0.0120)Pro+(-0.0472)Tyr;0.654,0.711,0.762,0.778,0.744,0.825,0.716,0.766,(2.9671)+(-0.0012)Gly+(0.0032)Thr+(-0.0080)Ala+(-0.0170)Arg+(0.0296)Orn+(-0.0125)Lys;0.654,0.711,0.696,0.692,0.668,0.783,0.700,0.711,(2.3479)+(-0.0007)Gln+(0.0025)Pro+(-0.0339)Val+(0.0314)Orn+(-0.0180)Lys+(0.0413)Leu;0.654,0.717,0.751,0.787,0.765,0.727,0.645,0.731,(2.4506)+(-0.1272)Asn+(0.0022)Gly+(0.0111)Thr+(-0.0189)Arg+(-0.0216)Leu+(0.0630)Phe;0.654,0.717,0.578,0.509,0.639,0.699,0.550,0.599,(-1.2725)+(0.0304)Ser+(-0.0032)Gly+(-0.0040)Gln+(-0.1046)Cit+(0.0235)Orn+(0.0191)Ile;0.654,0.706,0.655,0.638,0.688,0.717,0.587,0.657,(-1.4763)+(0.0338)Ser+(-0.0048)Gly+(-0.0699)Cit+(-0.0241)Arg+(-0.0003)Pro+(0.0230)Phe;0.654,0.712,0.699,0.699,0.669,0.785,0.703,0.714,(2.1279)+(-0.0004)Thr+(0.0024)Pro+(-0.0336)Val+(0.0307)Orn+(-0.0184)Lys+(0.0408)Leu;0.654,0.707,0.710,0.701,0.751,0.780,0.595,0.707,(1.7497)+(0.0010)Gly+(-0.0110)Thr+(-0.1074)Cit+(0.0013)Pro+(0.0473)Orn+(-0.0166)Leu;0.654,0.706,0.676,0.716,0.673,0.728,0.534,0.663,(3.0404)+(0.0060)Thr+(-0.0199)Arg+(0.0043)Pro+(-0.0524)Tyr+(0.0281)Orn+(-0.0135)Lys;0.654,0.712,0.722,0.765,0.710,0.746,0.613,0.709,(2.2447)+(-0.0010)Gly+(0.0037)Gln+(-0.0682)Cit+(-0.0119)Arg+(0.0054)Pro+(-0.0549)Tyr;0.654,0.720,0.649,0.651,0.655,0.7

89,0.530,0.656,(0.8951)+(0.0271)Ser+(-0.0028)Gln+(0.0050)Pro+(-0.0123)Val+(0.0239)Orn+(-0.0183)Lys;0.654,0.714,0.771,0.811,0.734,0.807,0.717,0.767,(1.6931)+(0.0099)Thr+(-0.0075)Ala+(-0.0199)Arg+(-0.0125)Val+(-0.0082)Lys+(0.0646)Phe;0.654,0.707,0.763,0.799,0.715,0.792,0.749,0.764,(0.7992)+(0.0015)Gln+(-0.0113)Ala+(-0.0236)Arg+(0.0100)Pro+(-0.0150)Leu+(0.0478)Phe;0.654,0.716,0.611,0.634,0.590,0.699,0.530,0.613,(-0.1485)+(0.0319)Ser+(-0.0029)Gln+(-0.0154)Thr+(0.0061)Pro+(-0.0546)Tyr+(0.0182)Orn;0.654,0.712,0.748,0.795,0.661,0.827,0.749,0.758,(2.6065)+(0.0006)Gln+(0.0050)Thr+(-0.0066)Ala+(-0.0322)Tyr+(-0.0272)Val+(0.0405)Leu;0.654,0.712,0.778,0.826,0.728,0.807,0.732,0.773,(0.8747)+(0.0016)Gln+(0.0057)Thr+(-0.0079)Ala+(-0.0245)Arg+(-0.0141)Val+(0.0604)Phe;0.653,0.718,0.644,0.675,0.628,0.738,0.527,0.642,(0.5627)+(0.0316)Ser+(-0.0011)Gln+(-0.0067)Thr+(0.0072)Pro+(-0.0416)Tyr+(-0.0144)Lys;0.653,0.712,0.760,0.767,0.774,0.772,0.701,0.754,(4.8035)+(-0.0830)Asn+(-0.0669)Cit+(0.0022)Arg+(0.0047)Pro+(-0.0057)Lys+(-0.0058)Leu;0.653,0.714,0.735,0.777,0.705,0.786,0.650,0.729,(3.7578)+(-0.0043)Gly+(0.0049)Thr+(-0.0446)Tyr+(-0.0108)Val+(0.0361)Orn+(-0.0112)Lys;0.653,0.706,0.700,0.733,0.690,0.736,0.612,0.693,(3.4504)+(-0.0024)Gly+(-0.0163)Arg+(0.0045)Pro+(-0.0519)Tyr+(0.0315)Orn+(-0.0123)Lys;0.653,0.715,0.765,0.779,0.757,0.744,0.763,0.761,(0.6420)+(-0.1335)Asn+(0.0056)Gln+(-0.0209)Arg+(-0.0026)Pro+(0.0197)Ile+(0.0204)Phe;0.653,0.711,0.617,0.598,0.617,0.723,0.590,0.632,(-1.7479)+(0.0397)Ser+(-0.0024)Gln+(-0.0131)Thr+(0.0031)Pro+(-0.0231)Lys+(0.0412)Phe;0.653,0.709,0.709,0.755,0.696,0.746,0.587,0.696,(3.4904)+(-0.0030)Gly+(-0.0230)Arg+(0.0065)Pro+(-0.0552)Tyr+(0.0312)Orn+(-0.0147)Leu;0.653,0.709,0.719,0.713,0.686,0.797,0.746,0.736,(2.5593)+(-0.0027)Gly+(0.0018)Thr+(-0.0341)Val+(0.0330)Orn+(-0.0186)Lys+(0.0425)Leu;0.653,0.704,0.712,0.708,0.701,0.759,0.713,0.720,(0.8973)+(0.0025)Gln+(0.0010)Thr+(-0.0195)Arg+(-0.0042)Pro+(-

0.0233)Lys+(0.0416)Ile;0.653,0.717,0.794,0.831,0.757,0.816,0.758,0.79
0,(4.7272)+(-0.0669)Asn+(-0.0049)Ala+(-0.0058)Arg+(-0.0223)Tyr+(-0.00
12)Lys+(0.0015)Leu;0.653,0.713,0.714,0.717,0.729,0.724,0.669,0.710,(1
.5475)+(-0.1181)Asn+(0.0031)Gly+(-0.0188)Arg+(0.0115)Orn+(0.0163)Ile+
(0.0212)Phe;0.653,0.718,0.633,0.663,0.622,0.737,0.501,0.631,(0.7509)+
(0.0295)Ser+(-0.0014)Gln+(0.0066)Pro+(-0.0450)Tyr+(-0.0165)Lys+(0.001
2)Leu;0.653,0.709,0.706,0.719,0.707,0.767,0.625,0.705,(0.2483)+(0.036
5)Ser+(-0.0079)Gly+(-0.0006)Gln+(-0.0312)Arg+(0.0042)Pro+(-0.0162)Leu
;0.653,0.708,0.774,0.800,0.726,0.821,0.772,0.780,(2.2287)+(-0.0011)Gl
y+(0.0027)Gln+(-0.0103)Ala+(-0.0158)Arg+(0.0102)Pro+(-0.0100)Lys;0.65
3,0.707,0.739,0.785,0.668,0.791,0.727,0.743,(3.1821)+(-0.0025)Gly+(0.
0030)Thr+(-0.0096)Ala+(0.0128)Pro+(-0.0443)Tyr+(-0.0047)Leu;0.653,0.7
11,0.735,0.752,0.711,0.802,0.689,0.739,(2.3107)+(-0.0023)Gly+(0.0006)
Gln+(-0.0265)Arg+(-0.0344)Val+(0.0327)Orn+(0.0334)Leu;0.653,0.715,0.7
17,0.758,0.703,0.773,0.595,0.707,(3.7696)+(0.0106)Thr+(-0.0520)Cit+(-
0.0122)Arg+(-0.0421)Tyr+(-0.0244)Val+(0.0326)Leu;0.653,0.696,0.623,0.
616,0.627,0.699,0.582,0.631,(-0.5033)+(0.0285)Ser+(-0.0034)Gln+(-0.06
94)Cit+(-0.0267)Val+(0.0230)Leu+(0.0465)Phe;0.653,0.722,0.655,0.655,0
.644,0.753,0.606,0.665,(-2.1794)+(0.0341)Ser+(-0.0154)Thr+(0.0194)Orn
+(-0.0223)Lys+(-0.0093)Leu+(0.0447)Phe;0.653,0.712,0.670,0.664,0.657,
0.712,0.680,0.678,(-2.2100)+(0.0438)Ser+(-0.0066)Gly+(-0.0176)Thr+(-0
.0272)Arg+(0.0019)Pro+(0.0208)Phe;0.653,0.708,0.766,0.794,0.720,0.823
,0.750,0.772,(2.1650)+(0.0023)Gln+(0.0024)Thr+(-0.0104)Ala+(-0.0169)A
rg+(0.0101)Pro+(-0.0104)Lys;0.653,0.715,0.750,0.790,0.700,0.818,0.701
,0.752,(2.4720)+(0.0017)Gln+(-0.0067)Ala+(-0.0344)Tyr+(0.0292)Orn+(-0
.0140)Lys+(0.0018)Leu;0.653,0.711,0.593,0.573,0.583,0.715,0.582,0.613
,(-0.4804)+(0.0266)Ser+(-0.0062)Gln+(-0.0367)Val+(0.0197)Orn+(0.0330)
Leu+(0.0380)Phe;0.653,0.707,0.679,0.756,0.630,0.641,0.608,0.659,(0.45

05)+(0.0003)Gln+(-0.0008)Thr+(0.0061)Pro+(-0.0782)Tyr+(-0.0220)Leu+(0.0744)Phe;0.653,0.720,0.684,0.674,0.677,0.749,0.677,0.694,(-1.0518)+(0.0426)Ser+(-0.0069)Gly+(-0.0010)Gln+(-0.0170)Thr+(-0.0256)Arg+(0.0162)Orn;0.653,0.708,0.759,0.789,0.715,0.793,0.745,0.761,(1.2197)+(0.0004)Gly+(-0.0113)Ala+(-0.0219)Arg+(0.0103)Pro+(-0.0147)Leu+(0.0495)Phe;0.653,0.710,0.749,0.792,0.681,0.815,0.727,0.754,(2.6476)+(0.0021)Gln+(-0.0092)Ala+(0.0121)Pro+(-0.0369)Tyr+(-0.0099)Lys+(-0.0001)Leu;0.653,0.711,0.747,0.787,0.743,0.789,0.616,0.734,(2.9739)+(-0.0017)Gly+(0.0041)Gln+(0.0088)Thr+(-0.0758)Cit+(-0.0441)Tyr+(-0.0140)Lys;0.653,0.703,0.734,0.785,0.721,0.747,0.618,0.718,(2.4641)+(-0.0018)Gly+(0.0032)Gln+(0.0028)Thr+(-0.0751)Cit+(-0.0498)Tyr+(-0.0048)Leu;0.653,0.699,0.656,0.652,0.656,0.710,0.625,0.661,(-0.5240)+(0.0326)Ser+(-0.0047)Gly+(-0.0024)Gln+(-0.0694)Cit+(-0.0156)Val+(0.0504)Phe;0.653,0.713,0.736,0.775,0.675,0.805,0.709,0.741,(3.2951)+(0.0052)Thr+(-0.0093)Ala+(0.0122)Pro+(-0.0381)Tyr+(-0.0100)Lys+(0.0004)Leu;0.653,0.713,0.692,0.734,0.699,0.722,0.546,0.675,(3.3315)+(-0.0005)Gly+(0.0074)Thr+(-0.0650)Cit+(-0.0116)Arg+(0.0058)Pro+(-0.0561)Tyr;0.653,0.715,0.747,0.790,0.697,0.821,0.684,0.748,(2.5299)+(0.0015)Gln+(0.0021)Thr+(-0.0066)Ala+(-0.0350)Tyr+(0.0289)Orn+(-0.0139)Lys;0.653,0.713,0.670,0.665,0.617,0.735,0.746,0.691,(-1.2737)+(0.0286)Ser+(-0.0090)Gly+(-0.0344)Val+(0.0149)Orn+(0.0281)Leu+(0.0244)Phe;0.653,0.704,0.751,0.777,0.713,0.822,0.707,0.755,(1.9878)+(0.0011)Gln+(-0.0107)Ala+(-0.0244)Arg+(0.0099)Pro+(0.0224)Orn+(-0.0109)Leu;0.653,0.701,0.749,0.798,0.671,0.800,0.745,0.754,(2.6111)+(-0.0030)Gly+(0.0020)Gln+(-0.0095)Ala+(0.0126)Pro+(-0.0446)Tyr+(-0.0053)Leu;0.653,0.711,0.600,0.544,0.661,0.705,0.543,0.613,(-1.0680)+(0.0301)Ser+(-0.0037)Gly+(-0.0037)Gln+(-0.1055)Cit+(0.0278)Orn+(0.0116)Phe;0.653,0.721,0.672,0.649,0.670,0.761,0.671,0.688,(0.2364)+(0.0404)Ser+(-0.0088)Gly+(-0.0015)Gln+(0.0203)Orn+(-0.0244)Lys+(-0.002

5)Leu;0.653,0.711,0.771,0.815,0.727,0.800,0.726,0.767,(1.3923)+(-0.00
02)Gly+(0.0071)Thr+(-0.0079)Ala+(-0.0230)Arg+(-0.0141)Val+(0.0623)Phe
;0.653,0.707,0.743,0.776,0.667,0.781,0.788,0.753,(1.1073)+(-0.0008)Gl
y+(-0.0004)Gln+(-0.0108)Ala+(0.0105)Pro+(-0.0149)Val+(0.0479)Phe;0.65
3,0.720,0.677,0.658,0.669,0.763,0.681,0.693,(-0.2062)+(0.0390)Ser+(-0
.0092)Gly+(0.0020)Pro+(0.0181)Orn+(-0.0253)Lys+(-0.0041)Leu;0.652,0.7
13,0.772,0.790,0.771,0.793,0.
712,0.767,(2.2586)+(-0.1078)Asn+(-0.0001)Gly+(0.0052)Gln+(-0.0160)Arg
+(0.0226)Orn+(-0.0114)Lys;0.652,0.708,0.754,0.776,0.674,0.808,0.824,0
.770,(1.0696)+(-0.0006)Gly+(-0.0002)Gln+(-0.0089)Ala+(-0.0285)Val+(0.
0325)Leu+(0.0443)Phe;0.652,0.704,0.740,0.759,0.653,0.813,0.820,0.761,
(2.4417)+(-0.0012)Gly+(-0.0008)Thr+(-0.0103)Ala+(0.0110)Pro+(-0.0295)
Val+(0.0372)Leu;0.652,0.712,0.759,0.780,0.741,0.827,0.692,0.760,(2.84
07)+(0.0025)Thr+(-0.0077)Ala+(-0.0177)Arg+(0.0300)Orn+(-0.0116)Lys+(-
0.0022)Leu;0.652,0.707,0.757,0.795,0.737,0.772,0.689,0.748,(4.9509)+(
-0.1040)Asn+(0.0015)Gly+(-0.0111)Arg+(0.0086)Pro+(-0.0162)Val+(0.0036
)Lys;0.652,0.714,0.715,0.738,0.695,0.769,0.654,0.714,(1.1207)+(-0.000
1)Thr+(-0.0289)Arg+(-0.0343)Val+(0.0301)Orn+(0.0273)Leu+(0.0361)Phe;0
.652,0.710,0.726,0.720,0.725,0.756,0.724,0.731,(3.1548)+(-0.0886)Asn+
(0.0102)Thr+(-0.0126)Arg+(-0.0025)Pro+(-0.0158)Lys+(0.0359)Ile;0.652,
0.711,0.684,0.644,0.711,0.756,0.681,0.698,(1.7492)+(0.0037)Thr+(-0.08
61)Cit+(-0.0005)Arg+(-0.0267)Lys+(0.0402)Ile+(0.0236)Phe;0.652,0.711,
0.619,0.586,0.636,0.709,0.608,0.635,(-1.6836)+(0.0387)Ser+(-0.0058)Gl
y+(-0.0024)Gln+(-0.0336)Arg+(-0.0026)Pro+(0.0266)Ile;0.652,0.711,0.78
1,0.830,0.707,0.846,0.759,0.785,(2.6746)+(0.0028)Gln+(-0.0058)Ala+(-0
.0166)Arg+(-0.0259)Tyr+(-0.0252)Val+(0.0374)Leu;0.652,0.704,0.782,0.8
14,0.746,0.847,0.723,0.783,(2.6466)+(-0.0022)Gly+(0.0020)Gln+(-0.0067
)Ala+(-0.0238)Arg+(-0.0125)Val+(0.0334)Orn;0.652,0.712,0.770,0.788,0.

769,0.790,0.712,0.765,(2.2369)+(-0.1083)Asn+(0.0051)Gln+(-0.0160)Arg+(0.0009)Pro+(0.0221)Orn+(-0.0115)Lys;0.652,0.704,0.669,0.723,0.642,0.664,0.586,0.654,(1.2859)+(-0.0019)Gly+(-0.0244)Arg+(0.0032)Pro+(-0.0771)Tyr+(0.0198)Orn+(0.0495)Phe;0.652,0.719,0.789,0.816,0.768,0.830,0.731,0.786,(4.4639)+(-0.0890)Asn+(0.0144)Thr+(-0.0063)Ala+(-0.0109)Arg+(-0.0050)Lys+(-0.0004)Leu;0.652,0.711,0.743,0.800,0.737,0.788,0.572,0.724,(2.8394)+(0.0035)Gln+(0.0067)Thr+(-0.0603)Cit+(-0.0146)Arg+(-0.0409)Tyr+(-0.0077)Val;0.652,0.714,0.735,0.781,0.732,0.745,0.608,0.717,(4.8863)+(-0.0899)Asn+(-0.0006)Gly+(0.0184)Thr+(-0.0133)Arg+(-0.0416)Tyr+(-0.0050)Lys;0.652,0.712,0.721,0.716,0.766,0.770,0.604,0.714,(1.1238)+(-0.0067)Thr+(-0.0958)Cit+(-0.0141)Arg+(0.0454)Orn+(-0.0234)Leu+(0.0393)Phe;0.652,0.709,0.788,0.835,0.732,0.808,0.765,0.785,(0.8966)+(-0.0004)Gly+(0.0021)Gln+(-0.0076)Ala+(-0.0219)Arg+(-0.0133)Val+(0.0591)Phe;0.652,0.705,0.646,0.625,0.606,0.739,0.714,0.671,(0.7901)+(0.0352)Ser+(-0.0081)Gly+(-0.0039)Gln+(0.0045)Pro+(-0.0343)Val+(0.0358)Leu;0.652,0.715,0.686,0.740,0.681,0.741,0.516,0.670,(2.9109)+(0.0021)Thr+(-0.0255)Arg+(0.0064)Pro+(-0.0541)Tyr+(0.0281)Orn+(-0.0140)Leu;0.652,0.714,0.777,0.815,0.717,0.815,0.774,0.780,(1.0225)+(0.0010)Gln+(0.0040)Thr+(-0.0079)Ala+(-0.0109)Val+(-0.0125)Lys+(0.0586)Phe;0.652,0.706,0.704,0.754,0.636,0.727,0.696,0.703,(3.2320)+(-0.0038)Gly+(0.0048)Thr+(0.0072)Pro+(-0.0532)Tyr+(-0.0283)Val+(0.0313)Leu;0.652,0.715,0.733,0.772,0.736,0.784,0.589,0.720,(2.7626)+(0.0038)Gln+(0.0083)Thr+(-0.0790)Cit+(-0.0435)Tyr+(-0.0152)Lys+(0.0033)Leu;0.652,0.705,0.771,0.801,0.722,0.827,0.752,0.775,(2.2246)+(0.0025)Gln+(-0.0101)Ala+(-0.0166)Arg+(0.0106)Pro+(-0.0089)Lys+(-0.0032)Leu;0.652,0.705,0.707,0.699,0.702,0.751,0.709,0.715,(0.8983)+(-0.0001)Gly+(0.0023)Gln+(-0.0001)Thr+(-0.0197)Arg+(-0.0229)Lys+(0.0360)Ile;0.652,0.712,0.789,0.810,0.713,0.858,0.837,0.805,(2.6102)+(-0.0015)Gly+(0.0021)Gln+(-0.0070)Ala+(-0.02

74)Val+(-0.0117)Lys+(0.0435)Leu;0.652,0.709,0.719,0.742,0.722,0.766,0.618,0.712,(1.4335)+(0.0031)Thr+(-0.0243)Arg+(-0.0181)Val+(0.0314)Orn+(-0.0119)Lys+(0.0498)Phe;0.652,0.723,0.639,0.666,0.633,0.759,0.495,0.638,(0.8224)+(0.0276)Ser+(-0.0018)Gln+(-0.0423)Tyr+(0.0239)Orn+(-0.0189)Lys+(0.0025)Leu;0.652,0.710,0.714,0.754,0.714,0.744,0.585,0.699,(3.6867)+(0.0002)Gly+(-0.0633)Cit+(-0.0079)Arg+(0.0074)Pro+(-0.0473)Tyr+(-0.0071)Leu;0.652,0.705,0.714,0.711,0.702,0.759,0.718,0.722,(0.9002)+(-0.0001)Gly+(0.0026)Gln+(-0.0191)Arg+(-0.0041)Pro+(-0.0231)Lys+(0.0415)Ile;0.652,0.711,0.779,0.808,0.777,0.803,0.691,0.770,(2.6552)+(-0.1093)Asn+(0.0052)Gln+(-0.0174)Arg+(0.0262)Orn+(-0.0068)Lys+(-0.0115)Leu;0.652,0.715,0.766,0.781,0.697,0.857,0.805,0.785,(3.1834)+(-0.0015)Gly+(0.0091)Thr+(-0.0072)Ala+(-0.0295)Val+(-0.0133)Lys+(0.0471)Leu;0.652,0.709,0.770,0.791,0.738,0.814,0.749,0.773,(1.5672)+(-0.0001)Gly+(0.0072)Thr+(-0.0091)Ala+(-0.0168)Arg+(-0.0132)Lys+(0.0482)Phe;0.652,0.715,0.710,0.727,0.691,0.792,0.645,0.714,(2.1250)+(-0.0010)Thr+(-0.0269)Arg+(0.0036)Pro+(-0.0347)Val+(0.0309)Orn+(0.0326)Leu;0.652,0.709,0.733,0.768,0.709,0.769,0.664,0.728,(3.9223)+(-0.0001)Gly+(-0.0529)Cit+(-0.0062)Arg+(-0.0350)Tyr+(-0.0232)Val+(0.0316)Leu;0.652,0.705,0.728,0.748,0.728,0.762,0.647,0.721,(1.6716)+(-0.0011)Gly+(-0.0227)Arg+(-0.0179)Val+(0.0331)Orn+(-0.0111)Lys+(0.0485)Phe;0.652,0.712,0.769,0.811,0.761,0.799,0.654,0.756,(5.2683)+(-0.1129)Asn+(0.0002)Gly+(0.0159)Thr+(-0.0140)Arg+(-0.0138)Val+(0.0006)Lys;0.652,0.712,0.755,0.783,0.766,0.734,0.676,0.740,(2.9306)+(-0.1162)Asn+(0.0133)Thr+(-0.0162)Arg+(-0.0065)Lys+(-0.0187)Leu+(0.0612)Phe;0.652,0.713,0.746,0.764,0.748,0.720,0.714,0.736,(2.6409)+(-0.1239)Asn+(0.0091)Thr+(0.0027)Pro+(-0.0090)Lys+(-0.0186)Leu+(0.0572)Phe;0.651,0.709,0.703,0.693,0.704,0.758,0.692,0.712,(0.9535)+(0.0020)Gln+(-0.0204)Arg+(-0.0046)Pro+(0.0167)Orn+(-0.0246)Lys+(0.0383)Ile;0.651,0.708,0.775,0.819,0.686,0.825,0.807,0

.784,(2.7956)+(-0.0026)Gly+(0.0019)Gln+(-0.0062)Ala+(-0.0317)Tyr+(-0.0260)Val+(0.0384)Leu;0.651,0.707,0.699,0.697,0.755,0.760,0.545,0.689,(0.7142)+(0.0011)Gly+(-0.0958)Cit+(-0.0181)Arg+(0.0417)Orn+(-0.0239)Leu+(0.0398)Phe;0.651,0.726,0.680,0.691,0.670,0.809,0.575,0.687,(0.5988)+(0.0295)Ser+(-0.0019)Gln+(-0.0109)Thr+(-0.0098)Val+(0.0290)Orn+(-0.0150)Lys;0.651,0.709,0.750,0.801,0.728,0.773,0.643,0.736,(2.9289)+(-0.0022)Gly+(0.0032)Gln+(0.0043)Thr+(-0.0683)Cit+(-0.0445)Tyr+(-0.0077)Val;0.651,0.706,0.719,0.769,0.710,0.771,0.567,0.704,(2.4850)+(0.0025)Gln+(-0.0209)Arg+(-0.0439)Tyr+(0.0311)Orn+(-0.0110)Lys+(-0.0061)Leu;0.651,0.713,0.731,0.752,0.711,0.778,0.686,0.732,(-0.0148)+(0.0401)Ser+(-0.0079)Gly+(0.0004)Gln+(-0.0110)Thr+(-0.0250)Arg+(-0.0112)Leu;0.651,0.711,0.742,0.755,0.750,0.738,0.696,0.735,(2.3119)+(-0.1013)Asn+(0.0027)Gly+(-0.0109)Arg+(0.0017)Pro+(-0.0105)Lys+(0.0422)Phe;0.651,0.709,0.772,0.810,0.739,0.850,0.688,0.772,(2.4618)+(0.0014)Gln+(0.0005)Thr+(-0.0067)Ala+(-0.0241)Arg+(-0.0122)Val+(0.0329)Orn;0.651,0.711,0.614,0.583,0.657,0.716,0.536,0.623,(-2.1904)+(0.0283)Ser+(-0.0782)Cit+(-0.0248)Arg+(-0.0038)Pro+(0.0297)Ile+(0.0121)Phe;0.651,0.709,0.702,0.699,0.674,0.793,0.701,0.717,(2.3375)+(-0.0005)Gln+(0.0008)Thr+(-0.0337)Val+(0.0321)Orn+(-0.0183)Lys+(0.0425)Leu;0.651,0.707,0.720,0.713,0.756,0.782,0.620,0.718,(1.6040)+(0.0008)Gln+(-0.0111)Thr+(-0.1068)Cit+(0.0012)Pro+(0.0465)Orn+(-0.0170)Leu;0.651,0.706,0.740,0.761,0.678,0.815,0.757,0.753,(2.3707)+(-0.0022)Gly+(-0.0004)Gln+(-0.0100)Ala+(0.0107)Pro+(-0.0139)Val+(0.0242)Orn;0.651,0.715,0.708,0.705,0.677,0.788,0.723,0.723,(0.3956)+(0.0373)Ser+(-0.0079)Gly+(-0.0021)Gln+(-0.0163)Thr+(-0.0143)Val+(0.0261)Orn;0.651,0.711,0.646,0.638,0.627,0.713,0.658,0.659,(-0.5452)+(0.0331)Ser+(-0.0074)Gly+(-0.0045)Gln+(-0.0207)Val+(0.0185)Orn+(0.0437)Phe;0.651,0.716,0.667,0.682,0.681,0.778,0.515,0.664,(0.1888)+(0.0318)Ser+(-0.0008)Gln+(-0.0224)Arg+(0.0045)Pro+(-0.0163)L

ys+(-0.0045)Leu;0.651,0.707,0.742,0.753,0.739,0.751,0.710,0.738,(1.0298)+(-0.1300)Asn+(0.0017)Gly+(0.0047)Gln+(-0.0215)Arg+(0.0090)Orn+(0.0199)Ile;0.651,0.709,0.757,0.769,0.750,0.746,0.750,0.754,(1.1831)+(-0.1376)Asn+(0.0007)Gly+(0.0046)Gln+(0.0072)Thr+(-0.0154)Lys+(0.0390)Phe;0.651,0.706,0.754,0.791,0.747,0.785,0.649,0.743,(2.6768)+(-0.0008)Gly+(0.0047)Gln+(-0.0756)Cit+(-0.0395)Tyr+(-0.0125)Lys+(0.0020)Leu;0.651,0.711,0.642,0.630,0.655,0.708,0.603,0.649,(-1.5011)+(0.0384)Ser+(-0.0064)Gly+(-0.0020)Gln+(-0.0334)Arg+(0.0003)Pro+(0.0169)Phe;0.651,0.711,0.751,0.764,0.748,0.733,0.737,0.745,(0.7123)+(-0.1425)Asn+(0.0052)Gln+(0.0056)Thr+(-0.0228)Arg+(0.0152)Ile+(0.0203)Phe;0.651,0.710,0.734,0.757,0.715,0.787,0.674,0.733,(4.1590)+(0.0005)Gly+(-0.0583)Cit+(-0.0298)Tyr+(-0.0226)Val+(-0.0089)Lys+(0.0356)Leu;0.651,0.709,0.671,0.637,0.728,0.742,0.591,0.674,(0.5355)+(-0.0989)Cit+(-0.0168)Arg+(-0.0054)Pro+(0.0318)Orn+(0.0226)Ile+(-0.0013)Phe;0.651,0.713,0.721,0.740,0.702,0.803,0.651,0.724,(2.1277)+(0.0001)Gln+(-0.0002)Thr+(-0.0266)Arg+(-0.0342)Val+(0.0321)Orn+(0.0338)Leu;0.651,0.705,0.619,0.606,0.667,0.702,0.497,0.618,(-1.4785)+(0.0301)Ser+(-0.0017)Gln+(-0.0741)Cit+(-0.0226)Arg+(0.0002)Pro+(0.0285)Phe;0.651,0.713,0.737,0.781,0.741,0.789,0.576,0.722,(2.8300)+(0.0041)Gln+(0.0093)Thr+(-0.0725)Cit+(-0.0077)Arg+(-0.0424)Tyr+(-0.0128)Lys;0.651,0.708,0.671,0.663,0.616,0.756,0.744,0.695,(-0.4250)+(0.0285)Ser+(-0.0096)Gly+(0.0025)Pro+(-0.0350)Val+(0.0155)Orn+(0.0321)Leu;0.651,0.706,0.665,0.726,0.637,0.667,0.558,0.647,(0.5151)+(0.0013)Gln+(-0.0272)Arg+(0.0030)Pro+(-0.0765)Tyr+(0.0169)Orn+(0.0500)Phe;0.651,0.709,0.654,0.624,0.715,0.739,0.544,0.656,(0.1468)+(0.0021)Gly+(-0.1012)Cit+(-0.0176)Arg+(-0.0054)Pro+(0.0309)Orn+(0.0241)Ile;0.650,0.705,0.761,0.783,0.718,0.822,0.746,0.767,(2.9911)+(-0.0004)Gly+(0.0043)Thr+(-0.0104)Ala+(-0.0149)Arg+(0.0105)Pro+(-0.0096)Lys;0.650,0.710,0.757,0.768,0.753,0.758,0.737,0.754,(1.1485)+(-0.1270

)Asn+(0.0052)Gln+(-0.0213)Arg+(-0.0026)Pro+(0.0101)Orn+(0.0217)Ile;0.650,0.710,0.766,0.783,0.771,0.741,0.731,0.756,(0.8750)+(-0.1356)Asn+(0.0052)Gln+(-0.0213)Arg+(-0.0010)Pro+(0.0127)Orn+(0.0273)Phe;0.650,0.709,0.709,0.705,0.763,0.764,0.568,0.700,(0.9352)+(-0.0947)Cit+(-0.0178)Arg+(-0.0001)Pro+(0.0423)Orn+(-0.0240)Leu+(0.0387)Phe;0.650,0.717,0.694,0.742,0.666,0.800,0.552,0.690,(1.0965)+(0.0272)Ser+(-0.0005)Gln+(-0.0035)Thr+(-0.0296)Tyr+(-0.0056)Val+(-0.0113)Lys;0.650,0.710,0.718,0.753,0.729,0.770,0.568,0.705,(4.0418)+(-0.0003)Gly+(0.0117)Thr+(-0.0723)Cit+(-0.0427)Tyr+(-0.0134)Lys+(0.0033)Leu;0.650,0.715,0.763,0.788,0.707,0.857,0.748,0.775,(3.3108)+(0.0118)Thr+(-0.0068)Ala+(-0.0149)Arg+(-0.0297)Val+(-0.0102)Lys+(0.0462)Leu;0.650,0.706,0.656,0.705,0.620,0.674,0.589,0.647,(0.3499)+(0.0014)Gln+(-0.0272)Arg+(-0.0757)Tyr+(0.0119)Orn+(0.0237)Ile+(0.0385)Phe;0.650,0.710,0.608,0.572,0.628,0.693,0.597,0.623,(-1.8238)+(0.0391)Ser+(-0.0057)Gly+(-0.0026)Gln+(-0.0344)Arg+(0.0223)Ile+(0.0039)Phe;0.650,0.706,0.661,0.624,0.704,0.742,0.610,0.670,(-0.0204)+(0.0028)Gly+(-0.0131)Thr+(-0.1133)Cit+(-0.0049)Pro+(0.0349)Orn+(0.0246)Ile;0.650,0.712,0.729,0.746,0.707,0.800,0.682,0.734,(2.4810)+(-0.0021)Gly+(0.0009)Thr+(-0.0262)Arg+(-0.0347)Val+(0.0330)Orn+(0.0340)Leu;0.650,0.709,0.779,0.804,0.735,0.846,0.756,0.785,(2.6331)+(-0.0027)Gly+(0.0014)Gln+(-0.0068)Ala+(-0.0093)Val+(0.0320)Orn+(-0.0121)Lys;0.650,0.711,0.739,0.767,0.741,0.702,0.690,0.725,(2.0766)+(-0.1400)Asn+(0.0020)Gly+(0.0056)Thr+(0.0030)Pro+(-0.0230)Leu+(0.0576)Phe;0.650,0.713,0.774,0.808,0.721,0.808,0.775,0.778,(1.4630)+(-0.0008)Gly+(0.0054)Thr+(-0.0078)Ala+(-0.0111)Val+(-0.0121)Lys+(0.0595)Phe;0.650,0.705,0.750,0.772,0.714,0.820,0.718,0.756,(2.4432)+(-0.0029)Thr+(-0.0105)Ala+(-0.0218)Arg+(0.0102)Pro+(0.0249)Orn+(-0.0106)Leu;0.650,0.717,0.625,0.607,0.621,0.729,0.603,0.640,(-2.8831)+(0.0362)Ser+(-0.0199)Thr+(-0.0283)Arg+(-0.0

017)Pro+(0.0067)Orn+(0.0309)Ile;0.650,0.712,0.718,0.752,0.720,0.757,0
.595,0.706,(3.9007)+(0.0008)Gly+(-0.0694)Cit+(0.0067)Pro+(-0.0421)Tyr
+(-0.0091)Lys+(-0.0017)Leu;0.650,0.703,0.699,0.749,0.693,0.752,0.545,
0.685,(2.4246)+(0.0022)Gln+(0.0055)Thr+(-0.0215)Arg+(-0.0483)Tyr+(0.0
280)Orn+(-0.0140)Lys;0.650,0.709,0.761,0.771,0.754,0.746,0.759,0.758,
(1.2550)+(-0.1366)Asn+(0.0047)Gln+(0.0075)Thr+(-0.0002)Pro+(-0.0155)L
ys+(0.0384)Phe;0.650,0.716,0.737,0.787,0.734,0.751,0.599,0.718,(4.898
6)+(-0.0916)Asn+(0.0179)Thr+(-0.0137)Arg+(-0.0395)Tyr+(-0.0037)Lys+(-
0.0030)Leu;0.650,0.713,0.716,0.749,0.720,0.755,0.595,0.705,(3.8692)+(
0.0009)Gly+(-0.0690)Cit+(-0.0012)Arg+(0.0065)Pro+(-0.0422)Tyr+(-0.009
4)Lys;0.650,0.710,0.753,0.783,0.766,0.720,0.671,0.735,(2.7586)+(-0.12
32)Asn+(0.0108)Thr+(-0.0187)Arg+(0.0031)Pro+(-0.0235)Leu+(0.0593)Phe;
0.650,0.714,0.768,0.789,0.694,0.860,0.799,0.785,(2.5760)+(0.0012)Gln+
(0.0072)Thr+(-0.0073)Ala+(-0.0290)Val+(-0.0140)Lys+(0.0463)Leu;0.650,
0.708,0.759,0.790,0.717,0.792,0.743,0.761,(1.2620)+(0.0011)Thr+(-0.01
13)Ala+(-0.0223)Arg+(0.0102)Pro+(-0.0149)Leu+(0.0493)Phe;0.650,0.707,
0.773,0.803,0.743,0.810,0.731,0.772,(1.5668)+(0.0074)Thr+(-0.0086)Ala
+(-0.0181)Arg+(-0.0111)Lys+(-0.0075)Leu+(0.0549)Phe;0.650,0.714,0.720
,0.770,0.694,0.783,0.596,0.711,(2.7510)+(0.0008)Gln+(0.0009)Thr+(-0.0
402)Tyr+(-0.0102)Val+(0.0331)Orn+(-0.0118)Lys;0.650,0.707,0.718,0.709
,0.708,0.760,0.735,0.728,(2.6871)+(-0.0979)Asn+(0.0019)Gly+(0.0066)Th
r+(-0.0025)Pro+(-0.0174)Lys+(0.0376)Ile;0.650,0.702,0.712,0.706,0.702
,0.753,0.719,0.720,(0.6014)+(0.0024)Gln+(-0.0194)Arg+(-0.0042)Pro+(-0
.0238)Lys+(0.0392)Ile+(0.0115)Phe;0.650,0.703,0.774,0.813,0.719,0.838
,0.737,0.777,(2.6800)+(0.0024)Gln+(-0.0089)Ala+(-0.0175)Arg+(0.0119)P
ro+(-0.0096)Val+(-0.0048)Lys;0.650,0.714,0.675,0.659,0.655,0.752,0.70
3,0.692,(-0.2370)+(0.0450)Ser+(-0.0081)Gly+(-0.0005)Gln+(-0.0114)Thr+
(0.0041)Pro+(-0.0199)Lys;0.650,0.707,0.754,0.777,0.672,0.807,0.824,0.

770,(0.9986)+(-0.0008)Gly+(0.0008)Thr+(-0.0090)Ala+(-0.0287)Val+(0.0325)Leu+(0.0438)Phe;0.650,0.708,0.716,0.785,0.686,0.765,0.564,0.700,(2.8323)+(0.0023)Gln+(0.0068)Thr+(-0.0248)Arg+(0.0084)Pro+(-0.0469)Tyr+(-0.0126)Val;0.650,0.703,0.649,0.693,0.617,0.666,0.590,0.641,(0.8045)+(-0.0254)Arg+(0.0009)Pro+(-0.0757)Tyr+(0.0135)Orn+(0.0229)Ile+(0.0388)Phe;0.650,0.715,0.801,0.828,0.770,0.835,0.771,0.801,(4.2155)+(-0.0749)Asn+(0.0013)Gly+(-0.0058)Ala+(-0.0069)Arg+(-0.0027)Lys+(0.0004)Leu;0.650,0.712,0.647,0.650,0.631,0.737,0.608,0.657,(-2.1868)+(0.0357)Ser+(-0.0144)Thr+(0.0038)Pro+(-0.0209)Lys+(-0.0099)Leu+(0.0463)Phe;0.650,0.711,0.734,0.731,0.743,0.737,0.720,0.733,(2.4094)+(-0.1127)Asn+(0.0063)Thr+(-0.0003)Pro+(0.0193)Orn+(-0.0167)Lys+(0.0357)Phe;0.650,0.701,0.690,0.675,0.695,0.749,0.680,0.700,(1.5528)+(0.0002)Gly+(-0.0182)Arg+(-0.0042)Pro+(0.0187)Orn+(-0.0238)Lys+(0.0379)Ile;0.650,0.706,0.770,0.799,0.743,0.837,0.698,0.769,(3.2153)+(-0.0018)Gly+(0.0024)Thr+(-0.0066)Ala+(-0.0227)Arg+(-0.0126)Val+(0.0346)Orn;0.650,0.711,0.653,0.695,0.616,0.747,0.551,0.652,(1.0106)+(0.0278)Ser+(-0.0018)Gln+(-0.0102)Thr+(0.0095)Pro+(-0.0421)Tyr+(-0.0107)Val;0.649,0.706,0.588,0.540,0.659,0.703,0.486,0.597,(-1.2006)+(0.0259)Ser+(-0.0039)Gln+(-0.1115)Cit+(-0.0029)Pro+(0.0307)Orn+(0.0180)Phe;0.649,0.713,0.725,0.784,0.685,0.789,0.603,0.715,(2.7358)+(0.0018)Gln+(0.0097)Thr+(-0.0239)Arg+(-0.0421)Tyr+(-0.0274)Val+(0.0339)Leu;0.649,0.702,0.658,0.700,0.624,0.665,0.614,0.651,(1.0453)+(-0.0013)Gly+(-0.0245)Arg+(-0.0757)Tyr+(0.0148)Orn+(0.0231)Ile+(0.0385)Phe;0.649,0.695,0.664,0.663,0.657,0.715,0.644,0.670,(-1.0540)+(0.0295)Ser+(-0.0053)Gly+(-0.0726)Cit+(0.0027)Pro+(-0.0166)Val+(0.0431)Phe;0.649,0.709,0.736,0.760,0.716,0.784,0.680,0.735,(4.2432)+(-0.0572)Cit+(-0.0000)Arg+(-0.0302)Tyr+(-0.0226)Val+(-0.0087)Lys+(0.0355)Leu;0.649,0.710,0.609,0.573,0.631,0.699,0.596,0.625,(-1.6962)+(0.0388)Ser+(-0.0058)Gly+(-0.0026)Gln+(-0.0342)Arg+(0.0016)Orn+

(0.0228)Ile;0.649,0.708,0.682,0.644,0.720,0.741,0.660,0.691,(0.1796)+(0.0006)Gln+(-0.0121)Thr+(-0.1101)Cit+(-0.0051)Pro+(0.0349)Orn+(0.0224)Ile;0.649,0.716,0.651,0.686,0.629,0.743,0.535,0.648,(0.2663)+(0.0304)Ser+(-0.0072)Thr+(0.0070)Pro+(-0.0420)Tyr+(-0.0150)Lys+(0.0003)Leu;0.649,0.707,0.749,0.772,0.668,0.808,0.815,0.766,(1.0095)+(-0.0004)Gln+(0.0007)Thr+(-0.0089)Ala+(-0.0288)Val+(0.0328)Leu+(0.0449)Phe;0.649,0.713,0.674,0.660,0.663,0.750,0.677,0.688,(0.1731)+(0.0414)Ser+(-0.0086)Gly+(-0.0011)Gln+(0.0032)Pro+(-0.0224)Lys+(-0.0026)Leu;0.649,0.715,0.642,0.626,0.660,0.713,0.595,0.648,(-1.4664)+(0.0381)Ser+(-0.0064)Gly+(-0.0023)Gln+(-0.0340)Arg+(0.0065)Orn+(0.0149)Phe;0.649,0.715,0.739,0.776,0.695,0.813,0.680,0.741,(2.9945)+(0.0035)Thr+(-0.0067)Ala+(-0.0351)Tyr+(0.0297)Orn+(-0.0139)Lys+(0.0020)Leu;0.649,0.711,0.661,0.624,0.716,0.744,0.582,0.666,(0.2240)+(0.0029)Gly+(-0.0105)Thr+(-0.1014)Cit+(-0.0132)Arg+(0.0330)Orn+(0.0195)Ile;0.649,0.711,0.726,0.739,0.745,0.725,0.653,0.716,(1.8015)+(-0.1188)Asn+(0.0027)Gly+(-0.0182)Arg+(-0.0000)Pro+(0.0162)Orn+(0.0304)Phe;0.649,0.713,0.597,0.571,0.619,0.722,0.528,0.610,(-1.3695)+(0.0350)Ser+(-0.0034)Gln+(0.0009)Pro+(0.0147)Orn+(-0.0288)Lys+(0.0376)Phe;0.649,0.702,0.751,0.771,0.715,0.825,0.715,0.757,(2.5116)+(-0.0008)Gly+(-0.0106)Ala+(-0.0227)Arg+(0.0100)Pro+(0.0239)Orn+(-0.0110)Leu;0.649,0.710,0.558,0.491,0.626,0.693,0.495,0.576,(-1.4606)+(0.0271)Ser+(-0.0044)Gln+(-0.1088)Cit+(0.0239)Orn+(0.0201)Ile+(0.0031)Phe;0.649,0.705,0.774,0.788,0.732,0.831,0.783,0.783,(2.1132)+(-0.0021)Gly+(0.0017)Gln+(-0.0013)Thr+(-0.0083)Ala+(0.0267)Orn+(-0.0161)Lys;0.649,0.708,0.751,0.791,0.745,0.789,0.632,0.739,(2.6058)+(0.0047)Gln+(-0.0735)Cit+(-0.0041)Arg+(-0.0383)Tyr+(-0.0117)Lys+(0.0016)Leu;0.649,0.707,0.727,0.764,0.716,0.772,0.617,0.717,(4.2124)+(0.0002)Gly+(-0.0625)Cit+(0.0084)Pro+(-0.0394)Tyr+(-0.0079)Val+(-0.0057)Lys;0.649,0.703,0.691,0.752,0.659,0.676,0.608,0.673,(0.7510)+(-0.0027)

Gly+(0.0021)Gln+(-0.0264)Arg+(-0.0760)Tyr+(0.0192)Orn+(0.0503)Phe;0.649,0.710,0.681,0.641,0.722,0.742,0.657,0.691,(0.4704)+(-0.0114)Thr+(-0.1094)Cit+(-0.0050)Pro+(0.0356)Orn+(0.0230)Ile+(-0.0026)Phe;0.649,0.706,0.728,0.768,0.718,0.772,0.614,0.718,(4.3157)+(-0.0577)Cit+(-0.0049)Arg+(0.0086)Pro+(-0.0390)Tyr+(-0.0083)Val+(-0.0042)Lys;0.648,0.715,0.777,0.816,0.698,0.850,0.786,0.788,(2.7890)+(0.0023)Gln+(-0.0060)Ala+(-0.0240)Tyr+(-0.0254)Val+(-0.0099)Lys+(0.0423)Leu;0.648,0.709,0.710,0.709,0.762,0.764,0.567,0.701,(0.7096)+(0.0007)Gln+(-0.0947)Cit+(-0.0186)Arg+(0.0412)Orn+(-0.0241)Leu+(0.0382)Phe;0.648,0.715,0.675,0.691,0.680,0.779,0.548,0.675,(-0.1689)+(0.0337)Ser+(-0.0086)Thr+(-0.0200)Arg+(0.0053)Pro+(-0.0143)Lys+(-0.0046)Leu;0.648,0.715,0.709,0.710,0.664,0.783,0.746,0.726,(-0.3697)+(0.0370)Ser+(-0.0084)Gly+(-0.0198)Thr+(0.0058)Pro+(-0.0163)Val+(0.0219)Orn;0.648,0.706,0.725,0.769,0.710,0.764,0.608,0.713,(4.1532)+(-0.0001)Gly+(-0.0554)Cit+(-0.0079)Arg+(0.0088)Pro+(-0.0417)Tyr+(-0.0096)Val;0.648,0.714,0.618,0.599,0.616,0.719,0.600,0.633,(-3.2024)+(0.0370)Ser+(-0.0207)Thr+(-0.0291)Arg+(0.0055)Orn+(0.0269)Ile+(0.0081)Phe;0.648,0.710,0.716,0.752,0.729,0.771,0.552,0.701,(4.0525)+(0.0123)Thr+(-0.0694)Cit+(-0.0043)Arg+(-0.0423)Tyr+(-0.0125)Lys+(0.0028)Leu;0.648,0.709,0.769,0.811,0.753,0.808,0.665,0.759,(2.9871)+(-0.0013)Gly+(0.0046)Gln+(-0.0698)Cit+(-0.0354)Tyr+(-0.0048)Val+(-0.0091)Lys;0.648,0.700,0.691,0.676,0.696,0.749,0.680,0.700,(1.5786)+(0.0004)Thr+(-0.0183)Arg+(-0.0042)Pro+(0.0187)Orn+(-0.0238)Lys+(0.0378)Ile;0.648,0.699,0.717,0.768,0.647,0.730,0.720,0.716,(2.9365)+(-0.0036)Gly+(0.0011)Gln+(0.0073)Pro+(-0.0510)Tyr+(-0.0272)Val+(0.0296)Leu;0.648,0.707,0.732,0.777,0.739,0.791,0.553,0.715,(4.3488)+(0.0121)Thr+(-0.0610)Cit+(-0.0074)Arg+(-0.0364)Tyr+(-0.0055)Val+(-0.0079)Lys;0.648,0.706,0.698,0.685,0.704,0.749,0.687,0.706,(0.9376)+(0.0018)Gln+(-0.0020)Thr+(-0.0203)Arg+(0.0161)Orn+(-0.0239)Lys+(0.0324)Ile;0.64

8,0.708,0.764,0.810,0.752,0.808,0.636,0.751,(2.8733)+(0.0046)Gln+(-0.0663)Cit+(-0.0066)Arg+(-0.0337)Tyr+(-0.0051)Val+(-0.0077)Lys;0.648,0.714,0.650,0.686,0.626,0.737,0.540,0.647,(0.2243)+(0.0287)Ser+(-0.0022)Gln+(-0.0136)Thr+(-0.0452)Tyr+(0.0230)Orn+(-0.0060)Leu;0.648,0.708,0.765,0.788,0.754,0.783,0.715,0.760,(2.5247)+(-0.1202)Asn+(0.0043)Gln+(0.0025)Pro+(0.0228)Orn+(-0.0096)Lys+(-0.0116)Leu;0.648,0.705,0.746,0.756,0.745,0.749,0.717,0.742,(1.1983)+(-0.1334)Asn+(0.0049)Gln+(0.0039)Thr+(-0.0224)Arg+(0.0079)Orn+(0.0182)Ile;0.648,0.707,0.771,0.794,0.731,0.846,0.739,0.778,(3.0582)+(-0.0022)Gly+(0.0008)Thr+(-0.0066)Ala+(-0.0095)Val+(0.0332)Orn+(-0.0113)Lys;0.648,0.707,0.755,0.774,0.760,0.730,0.708,0.743,(0.8912)+(-0.1433)Asn+(0.0050)Gln+(0.0052)Thr+(-0.0228)Arg+(0.0100)Orn+(0.0270)Phe;0.648,0.703,0.696,0.743,0.699,0.753,0.523,0.680,(3.2432)+(0.0063)Thr+(-0.0206)Arg+(-0.0458)Tyr+(0.0317)Orn+(-0.0113)Lys+(-0.0054)Leu;0.648,0.697,0.655,0.689,0.632,0.689,0.592,0.650,(1.9688)+(-0.0019)Gly+(0.0052)Thr+(-0.0257)Arg+(-0.0678)Tyr+(0.0154)Orn+(0.0306)Ile;0.648,0.709,0.768,0.797,0.721,0.848,0.727,0.774,(2.4026)+(0.0009)Gln+(-0.0013)Thr+(-0.0068)Ala+(-0.0090)Val+(0.0318)Orn+(-0.0116)Lys;0.647,0.705,0.786,0.809,0.737,0.818,0.804,0.792,(0.8951)+(-0.0010)Gly+(0.0018)Gln+(-0.0089)Ala+(-0.0149)Lys+(-0.0050)Leu+(0.0481)Phe;0.647,0.711,0.792,0.821,0.723,0.866,0.805,0.804,(2.5307)+(0.0027)Gln+(-0.0066)Ala+(-0.0136)Arg+(-0.0269)Val+(-0.0083)Lys+(0.0416)Leu;0.647,0.709,0.776,0.798,0.765,0.791,0.726,0.770,(2.5704)+(-0.1181)Asn+(-0.0006)Gly+(0.0045)Gln+(0.0239)Orn+(-0.0098)Lys+(-0.0103)Leu;0.647,0.722,0.631,0.622,0.645,0.737,0.547,0.638,(-2.1715)+(0.0370)Ser+(-0.0023)Gln+(-0.0180)Thr+(-0.0271)Arg+(0.0133)Orn+(0.0251)Phe;0.647,0.697,0.692,0.687,0.729,0.746,0.590,0.688,(0.4196)+(0.0019)Gly+(-0.0118)Thr+(-0.1092)Cit+(0.0452)Orn+(-0.0226)Leu+(0.0392)Phe;0.647,0.709,0.723,0.761,0.736,0.774,0.56

0,0.708,(4.2048)+(-0.0006)Gly+(0.0125)Thr+(-0.0670)Cit+(-0.0052)Arg+(-0.0417)Tyr+(-0.0112)Lys;0.647,0.709,0.673,0.642,0.728,0.741,0.592,0.676,(0.2576)+(0.0007)Gln+(-0.0989)Cit+(-0.0178)Arg+(-0.0056)Pro+(0.0309)Orn+(0.0223)Ile;0.647,0.700,0.766,0.807,0.712,0.835,0.722,0.769,(2.5529)+(0.0019)Gln+(0.0023)Thr+(-0.0092)Ala+(-0.0210)Arg+(0.0119)Pro+(-0.0112)Val;0.647,0.711,0.782,0.800,0.734,0.824,0.805,0.791,(0.9266)+(-0.0011)Gly+(0.0017)Gln+(0.0022)Thr+(-0.0093)Ala+(-0.0168)Lys+(0.0437)Phe;0.647,0.706,0.729,0.745,0.741,0.731,0.660,0.719,(2.4191)+(-0.1132)Asn+(0.0021)Gly+(0.0114)Thr+(-0.0144)Arg+(-0.0123)Lys+(0.0435)Phe;0.647,0.704,0.748,0.782,0.668,0.785,0.799,0.758,(1.0720)+(-0.0006)Gly+(-0.0032)Thr+(-0.0106)Ala+(0.0107)Pro+(-0.0145)Val+(0.0477)Phe;0.647,0.703,0.735,0.753,0.647,0.818,0.810,0.757,(2.3481)+(-0.0002)Gln+(-0.0014)Thr+(-0.0103)Ala+(0.0111)Pro+(-0.0294)Val+(0.0374)Leu;0.647,0.710,0.680,0.642,0.732,0.744,0.628,0.686,(0.7468)+(-0.0089)Thr+(-0.0976)Cit+(-0.0131)Arg+(0.0338)Orn+(0.0178)Ile+(-0.0029)Phe;0.647,0.691,0.674,0.671,0.675,0.746,0.627,0.680,(0.9857)+(0.0311)Ser+(-0.0061)Gly+(-0.0014)Gln+(-0.0653)Cit+(0.0050)Pro+(-0.0130)Val;0.647,0.714,0.620,0.604,0.616,0.719,0.600,0.634,(-3.1841)+(0.0371)Ser+(-0.0194)Thr+(-0.0287)Arg+(-0.0016)Pro+(0.0301)Ile+(0.0097)Phe;0.647,0.710,0.723,0.757,0.723,0.757,0.608,0.712,(4.0506)+(-0.0662)Cit+(-0.0018)Arg+(0.0068)Pro+(-0.0425)Tyr+(-0.0082)Lys+(-0.0024)Leu;0.647,0.710,0.722,0.777,0.671,0.764,0.651,0.716,(2.7846)+(0.0021)Gln+(-0.0205)Arg+(0.0078)Pro+(-0.0431)Tyr+(-0.0266)Val+(0.0292)Leu;0.647,0.708,0.759,0.778,0.764,0.781,0.683,0.751,(2.3292)+(-0.1153)Asn+(0.0050)Gln+(0.0066)Thr+(-0.0175)Arg+(0.0202)Orn+(-0.0121)Lys;0.647,0.705,0.741,0.762,0.679,0.820,0.757,0.755,(2.2550)+(-0.0003)Gln+(-0.0071)Thr+(-0.0098)Ala+(0.0112)Pro+(-0.0132)Val+(0.0265)Orn;0.647,0.702,0.724,0.763,0.718,0.762,0.608,0.713,(3.7445)+(-0.0027)Gly+(-0.0172)Arg+(-0.0448)Tyr+(0.0358)Orn+(-0.00

95)Lys+(-0.0067)Leu;0.647,0.705,0.647,0.700,0.613,0.657,0.572,0.635,(0.2595)+(0.0014)Gln+(0.0064)Thr+(-0.0290)Arg+(-0.0792)Tyr+(0.0265)Ile+(0.0418)Phe;0.647,0.714,0.713,0.756,0.684,0.793,0.606,0.710,(3.6789)+(0.0147)Thr+(-0.0176)Arg+(-0.0377)Tyr+(-0.0284)Val+(-0.0101)Lys+(0.0408)Leu;0.647,0.706,0.764,0.775,0.729,0.827,0.764,0.774,(2.6309)+(-0.0016)Gly+(-0.0002)Thr+(-0.0081)Ala+(0.0281)Orn+(-0.0152)Lys+(-0.0005)Leu;0.647,0.719,0.674,0.684,0.656,0.799,0.597,0.684,(-0.0788)+(0.0289)Ser+(-0.0138)Thr+(0.0055)Pro+(-0.0114)Val+(0.0251)Orn+(-0.0159)Lys;0.647,0.715,0.682,0.672,0.672,0.747,0.682,0.693,(-1.4621)+(0.0423)Ser+(-0.0071)Gly+(-0.0184)Thr+(-0.0266)Arg+(0.0019)Pro+(0.0139)Orn;0.647,0.707,0.662,0.714,0.620,0.664,0.613,0.653,(0.2603)+(0.0019)Gln+(-0.0260)Arg+(0.0010)Pro+(-0.0758)Tyr+(0.0261)Ile+(0.0404)Phe;0.647,0.699,0.676,0.715,0.645,0.700,0.624,0.671,(1.4221)+(-0.0022)Gly+(0.0020)Gln+(-0.0257)Arg+(-0.0660)Tyr+(0.0151)Orn+(0.0297)Ile;0.647,0.705,0.739,0.753,0.735,0.743,0.707,0.734,(1.0627)+(-0.1355)Asn+(0.0016)Gly+(0.0049)Gln+(0.0047)Thr+(-0.0221)Arg+(0.0220)Ile;0.647,0.705,0.769,0.821,0.749,0.792,0.660,0.755,(2.8990)+(-0.0018)Gly+(0.0045)Gln+(-0.0591)Cit+(-0.0115)Arg+(-0.0384)Tyr+(-0.0075)Val;0.647,0.707,0.780,0.806,0.730,0.819,0.786,0.785,(0.8036)+(0.0014)Gln+(0.0017)Thr+(-0.0090)Ala+(-0.0155)Lys+(-0.0049)Leu+(0.0488)Phe;0.647,0.697,0.661,0.694,0.635,0.688,0.611,0.657,(1.9539)+(-0.0015)Gly+(-0.0235)Arg+(0.0009)Pro+(-0.0651)Tyr+(0.0169)Orn+(0.0297)Ile;0.647,0.714,0.740,0.784,0.727,0.751,0.643,0.726,(4.7663)+(-0.0969)Asn+(-0.0008)Gly+(0.0157)Thr+(-0.0403)Tyr+(-0.0061)Lys+(-0.0023)Leu;0.647,0.712,0.683,0.672,0.660,0.758,0.708,0.699,(-0.2507)+(0.0442)Ser+(-0.0083)Gly+(-0.0117)Thr+(0.0045)Pro+(-0.0191)Lys+(-0.0028)Leu;0.647,0.711,0.642,0.643,0.632,0.738,0.594,0.652,(-1.6219)+(0.0374)Ser+(-0.0020)Gln+(-0.0115)Thr+(-0.0204)Lys+(-0.0076)Leu+(0.0503)Phe;0.647,0.705,0.697,0.681,0.704,0.747,0.687,0.705,(0.988

2)+(-0.0005)Gly+(0.0018)Gln+(-0.0209)Arg+(0.0157)Orn+(-0.0244)Lys+(0.0320)Ile;0.647,0.697,0.776,0.814,0.720,0.832,0.751,0.779,(2.6433)+(-0.0013)Gly+(0.0024)Gln+(-0.0091)Ala+(-0.0197)Arg+(0.0119)Pro+(-0.0111)Val;0.647,0.705,0.746,0.779,0.666,0.785,0.795,0.756,(1.0573)+(-0.0002)Gln+(-0.0034)Thr+(-0.0107)Ala+(0.0107)Pro+(-0.0145)Val+(0.0484)Phe;0.646,0.703,0.704,0.695,0.699,0.746,0.708,0.712,(0.6283)+(0.0021)Gln+(-0.0001)Thr+(-0.0201)Arg+(-0.0236)Lys+(0.0338)Ile+(0.0107)Phe;0.646,0.692,0.649,0.642,0.671,0.698,0.590,0.650,(-1.0140)+(0.0318)Ser+(-0.0045)Gly+(-0.0020)Gln+(-0.0817)Cit+(-0.0186)Leu+(0.0429)Phe;0.646,0.703,0.759,0.795,0.714,0.831,0.708,0.762,(3.4487)+(0.0054)Thr+(-0.0089)Ala+(-0.0172)Arg+(0.0121)Pro+(-0.0100)Val+(-0.0048)Lys;0.646,0.704,0.777,0.798,0.733,0.815,0.785,0.783,(1.3599)+(-0.0006)Gly+(0.0034)Thr+(-0.0089)Ala+(-0.0148)Lys+(-0.0051)Leu+(0.0501)Phe;0.646,0.705,0.777,0.804,0.731,0.810,0.775,0.780,(0.3920)+(-0.0003)Gly+(0.0018)Gln+(0.0010)Thr+(-0.0103)Ala+(-0.0236)Arg+(0.0386)Phe;0.646,0.714,0.618,0.608,0.636,0.732,0.523,0.625,(-1.2498)+(0.0332)Ser+(-0.0033)Gln+(0.0168)Orn+(-0.0259)Lys+(-0.0095)Leu+(0.0466)Phe;0.646,0.713,0.613,0.561,0.655,0.716,0.592,0.631,(-2.1569)+(0.0262)Ser+(-0.0041)Gly+(-0.1097)Cit+(-0.0063)Pro+(0.0225)Orn+(0.0234)Ile;0.646,0.707,0.679,0.731,0.631,0.670,0.648,0.670,(0.4042)+(-0.0016)Gly+(0.0023)Gln+(-0.0254)Arg+(-0.0762)Tyr+(0.0263)Ile+(0.0401)Phe;0.646,0.700,0.704,0.696,0.739,0.750,0.620,0.701,(0.7515)+(-0.0108)Thr+(-0.1066)Cit+(0.0002)Pro+(0.0454)Orn+(-0.0230)Leu+(0.0367)Phe;0.646,0.712,0.696,0.733,0.649,0.768,0.642,0.698,(3.2377)+(0.0083)Thr+(0.0064)Pro+(-0.0438)Tyr+(-0.0283)Val+(-0.0131)Lys+(0.0382)Leu;0.646,0.707,0.736,0.777,0.739,0.793,0.579,0.722,(4.3871)+(-0.0010)Gly+(0.0112)Thr+(-0.0654)Cit+(-0.0376)Tyr+(-0.0051)Val+(-0.0093)Lys;0.646,0.703,0.759,0.785,0.717,0.824,0.731,0.764,(3.0095)+(0.0040)Thr+(-0.0102)Ala+(-0.0155)Arg+(0.0108)Pro+(-0.0086)Lys+(-0.0029

)Leu;0.646,0.701,0.766,0.786,0.708,0.821,0.793,0.777,(2.1840)+(-0.001
5)Gly+(0.0019)Gln+(-0.0004)Thr+(-0.0106)Ala+(0.0101)Pro+(-0.0134)Lys;
0.646,0.706,0.781,0.804,0.717,0.854,0.801,0.794,(3.4585)+(-0.0003)Gly
+(-0.0064)Ala+(-0.0102)Arg+(-0.0276)Val+(-0.0069)Lys+(0.0433)Leu;0.64
6,0.693,0.637,0.638,0.630,0.714,0.591,0.643,(-1.3110)+(0.0231)Ser+(-0
.0763)Cit+(0.0021)Pro+(-0.0254)Val+(0.0186)Leu+(0.0397)Phe;0.646,0.70
8,0.751,0.766,0.741,0.755,0.729,0.748,(0.9939)+(-0.1283)Asn+(0.0018)G
ly+(0.0052)Gln+(-0.0204)Arg+(-0.0023)Pro+(0.0260)Ile;0.646,0.701,0.66
1,0.659,0.607,0.718,0.739,0.681,(-1.2323)+(0.0303)Ser+(-0.0088)Gly+(0
.0026)Pro+(-0.0326)Val+(0.0262)Leu+(0.0254)Phe;0.646,0.711,0.720,0.72
7,0.726,0.726,0.688,0.717,(1.5556)+(-0.1154)Asn+(0.0034)Gly+(-0.0171)
Arg+(-0.0015)Pro+(0.0218)Ile+(0.0239)Phe;0.646,0.706,0.764,0.792,0.76
1,0.732,0.717,0.751,(0.6659)+(-0.1384)Asn+(0.0018)Gly+(0.0053)Gln+(-0
.0201)Arg+(-0.0000)Pro+(0.0332)Phe;0.646,0.706,0.748,0.768,0.685,0.81
8,0.773,0.761,(2.3863)+(-0.0016)Gly+(-0.0063)Thr+(-0.0098)Ala+(0.0111
)Pro+(-0.0134)Val+(0.0266)Orn;0.646,0.693,0.657,0.699,0.627,0.690,0.5
84,0.650,(1.1686)+(0.0017)Gln+(0.0047)Thr+(-0.0270)Arg+(0.0007)Pro+(-
0.0657)Tyr+(0.0344)Ile;0.646,0.708,0.774,0.811,0.707,0.828,0.773,0.78
0,(3.7733)+(-0.0010)Gly+(-0.0056)Ala+(-0.0120)Arg+(-0.0238)Tyr+(-0.02
61)Val+(0.0398)Leu;0.646,0.704,0.646,0.705,0.626,0.656,0.523,0.628,(0
.8377)+(0.0053)Thr+(-0.0282)Arg+(0.0030)Pro+(-0.0792)Tyr+(0.0164)Orn+
(0.0519)Phe;0.646,0.704,0.735,0.786,0.655,0.799,0.718,0.740,(2.3305)+
(0.0012)Gln+(-0.0006)Thr+(-0.0097)Ala+(0.0127)Pro+(-0.0419)Tyr+(-0.00
46)Leu;0.646,0.702,0.704,0.695,0.699,0.746,0.707,0.712,(0.6220)+(0.00
01)Gly+(0.0021)Gln+(-0.0201)Arg+(-0.0237)Lys+(0.0338)Ile+(0.0107)Phe;
0.646,0.701,0.765,0.790,0.720,0.826,0.750,0.771,(3.0901)+(-0.0002)Gly
+(-0.0101)Ala+(-0.0138)Arg+(0.0112)Pro+(-0.0076)Lys+(-0.0030)Leu;0.64
6,0.708,0.774,0.802,0.763,0.780,0.720,0.766,(2.3639)+(-0.1383)Asn+(-0

.0003)Gly+(0.0041)Gln+(0.0020)Thr+(0.0196)Orn+(-0.0154)Leu;0.646,0.703,0.771,0.804,0.770,0.793,0.673,0.760,(2.5471)+(-0.1188)Asn+(0.0050)Gln+(-0.0202)Arg+(0.0030)Pro+(0.0232)Orn+(-0.0167)Leu;0.646,0.703,0.637,0.683,0.610,0.659,0.553,0.626,(0.6937)+(0.0057)Thr+(-0.0282)Arg+(-0.0787)Tyr+(0.0113)Orn+(0.0238)Ile+(0.0404)Phe;0.645,0.706,0.707,0.713,0.720,0.711,0.662,0.701,(1.5651)+(-0.1254)Asn+(0.0032)Gly+(0.0062)Thr+(-0.0197)Arg+(0.0183)Ile+(0.0239)Phe;0.645,0.711,0.618,0.613,0.626,0.725,0.535,0.625,(-1.3269)+(0.0344)Ser+(-0.0029)Gln+(0.0027)Pro+(-0.0245)Lys+(-0.0095)Leu+(0.0477)Phe;0.645,0.707,0.730,0.784,0.731,0.767,0.560,0.711,(2.4228)+(0.0036)Gln+(0.0054)Thr+(-0.0672)Cit+(-0.0141)Arg+(-0.0469)Tyr+(-0.0047)Leu;0.645,0.704,0.635,0.684,0.604,0.647,0.562,0.624,(0.7215)+(0.0075)Thr+(-0.0275)Arg+(0.0010)Pro+(-0.0797)Tyr+(0.0260)Ile+(0.0427)Phe;0.645,0.705,0.737,0.745,0.751,0.768,0.666,0.732,(3.3910)+(-0.0895)Asn+(0.0012)Gly+(-0.0126)Arg+(0.0017)Pro+(0.0261)Orn+(-0.0109)Lys;0.645,0.705,0.772,0.787,0.729,0.830,0.780,0.782,(2.1377)+(-0.0022)Gly+(0.0017)Gln+(-0.0083)Ala+(0.0264)Orn+(-0.0163)Lys+(-0.0005)Leu;0.645,0.695,0.658,0.697,0.632,0.696,0.584,0.652,(1.1965)+(0.0014)Gln+(-0.0263)Arg+(0.0005)Pro+(-0.0646)Tyr+(0.0139)Orn+(0.0307)Ile;0.645,0.700,0.649,0.662,0.594,0.722,0.678,0.664,(-1.9966)+(0.0293)Ser+(-0.0190)Thr+(0.0042)Pro+(-0.0282)Val+(0.0219)Leu+(0.0357)Phe;0.645,0.707,0.723,0.759,0.672,0.778,0.695,0.726,(3.8220)+(-0.0033)Gly+(0.0127)Thr+(-0.0420)Tyr+(-0.0284)Val+(-0.0135)Lys+(0.0418)Leu;0.645,0.701,0.733,0.774,0.714,0.766,0.641,0.724,(2.6908)+(-0.0037)Gly+(0.0033)Gln+(-0.0189)Arg+(-0.0494)Tyr+(0.0310)Orn+(-0.0134)Lys;0.645,0.704,0.782,0.816,0.780,0.800,0.685,0.770,(2.5590)+(-0.1178)Asn+(-0.0003)Gly+(0.0052)Gln+(-0.0199)Arg+(0.0244)Orn+(-0.0151)Leu;0.645,0.699,0.767,0.800,0.718,0.832,0.736,0.771,(3.5588)+(-0.0004)Gly+(-0.0089)Ala+(-0.0148)Arg+(0.0125)Pro+(-0.0097)Val+(-0.0034)Lys;0.645,0.710,0.772,0.8

03,0.699,0.836,0.798,0.784,(3.7514)+(-0.0011)Gly+(-0.0057)Ala+(-0.0227)Tyr+(-0.0260)Val+(-0.0077)Lys+(0.0432)Leu;0.645,0.701,0.591,0.573,0.574,0.740,0.566,0.613,(0.6057)+(0.0245)Ser+(-0.0057)Gln+(0.0034)Pro+(-0.0369)Val+(0.0202)Orn+(0.0386)Leu;0.645,0.702,0.658,0.704,0.617,0.652,0.626,0.650,(1.0134)+(-0.0007)Gly+(-0.0226)Arg+(0.0014)Pro+(-0.0752)Tyr+(0.0262)Ile+(0.0411)Phe;0.645,0.710,0.734,0.732,0.744,0.732,0.720,0.732,(2.0162)+(-0.1096)Asn+(-0.0176)Arg+(-0.0020)Pro+(0.0137)Orn+(0.0165)Ile+(0.0184)Phe;0.645,0.703,0.645,0.693,0.612,0.646,0.585,0.634,(0.9904)+(-0.0015)Gly+(0.0088)Thr+(-0.0270)Arg+(-0.0807)Tyr+(0.0263)Ile+(0.0428)Phe;0.645,0.707,0.684,0.649,0.731,0.746,0.632,0.689,(0.2650)+(0.0012)Gln+(-0.0099)Thr+(-0.0977)Cit+(-0.0143)Arg+(0.0324)Orn+(0.0169)Ile;0.645,0.703,0.692,0.676,0.699,0.744,0.683,0.701,(0.7274)+(0.0016)Gln+(-0.0212)Arg+(0.0151)Orn+(-0.0249)Lys+(0.0305)Ile+(0.0090)Phe;0.645,0.693,0.652,0.691,0.626,0.695,0.570,0.646,(1.2072)+(0.0013)Gln+(0.0030)Thr+(-0.0275)Arg+(-0.0658)Tyr+(0.0129)Orn+(0.0315)Ile;0.645,0.701,0.625,0.632,0.596,0.693,0.615,0.634,(-1.2839)+(0.0341)Ser+(-0.0037)Gln+(-0.0175)Thr+(0.0058)Pro+(-0.0179)Val+(0.0500)Phe;0.645,0.707,0.714,0.720,0.720,0.737,0.672,0.712,(2.1016)+(-0.1087)Asn+(0.0027)Gly+(-0.0179)Arg+(-0.0017)Pro+(0.0136)Orn+(0.0233)Ile;0.645,0.703,0.740,0.756,0.743,0.764,0.677,0.735,(3.6181)+(-0.1014)Asn+(0.0005)Gly+(0.0032)Pro+(0.0268)Orn+(-0.0087)Lys+(-0.0119)Leu;0.645,0.703,0.714,0.758,0.671,0.755,0.661,0.711,(3.6986)+(-0.0141)Arg+(0.0079)Pro+(-0.0379)Tyr+(-0.0271)Val+(-0.0053)Lys+(0.0337)Leu;0.645,0.707,0.774,0.808,0.710,0.856,0.758,0.783,(2.3534)+(0.0016)Gln+(0.0067)Thr+(-0.0073)Ala+(-0.0208)Arg+(-0.0290)Val+(0.0399)Leu;0.645,0.699,0.792,0.826,0.720,0.854,0.809,0.802,(2.4210)+(-0.0013)Gly+(0.0025)Gln+(-0.0070)Ala+(-0.0179)Arg+(-0.0276)Val+(0.0381)Leu;0.644,0.707,0.766,0.784,0.723,0.831,0.761,0.775,(1.9321)+(0.001

3)Gln+(-0.0022)Thr+(-0.0082)Ala+(0.0266)Orn+(-0.0157)Lys+(0.0001)Leu;0.644,0.703,0.719,0.781,0.688,0.755,0.596,0.705,(4.1645)+(-0.0031)Gly+(0.0109)Thr+(-0.0219)Arg+(0.0089)Pro+(-0.0492)Tyr+(-0.0127)Val;0.644,0.707,0.774,0.843,0.729,0.846,0.635,0.763,(2.7595)+(0.0030)Gln+(0.0089)Thr+(-0.0052)Ala+(-0.0225)Arg+(-0.0315)Tyr+(-0.0073)Val;0.644,0.706,0.763,0.774,0.756,0.780,0.736,0.762,(2.1780)+(-0.1166)Asn+(-0.0002)Gly+(0.0044)Gln+(0.0008)Pro+(0.0204)Orn+(-0.0139)Lys;0.644,0.697,0.764,0.791,0.711,0.814,0.768,0.771,(1.6516)+(-0.0007)Gly+(0.0019)Gln+(-0.0008)Thr+(-0.0114)Ala+(-0.0210)Arg+(0.0100)Pro;0.644,0.700,0.686,0.740,0.624,0.727,0.643,0.684,(2.6295)+(-0.0001)Gln+(0.0016)Thr+(0.0071)Pro+(-0.0494)Tyr+(-0.0280)Val+(0.0312)Leu;0.644,0.710,0.595,0.639,0.577,0.697,0.439,0.588,(0.6328)+(0.0237)Ser+(-0.0033)Gln+(0.0062)Pro+(-0.0590)Tyr+(0.0159)Orn+(-0.0093)Leu;0.644,0.706,0.706,0.741,0.684,0.737,0.635,0.699,(3.3054)+(-0.0035)Gly+(0.0053)Pro+(-0.0532)Tyr+(0.0306)Orn+(-0.0135)Lys+(-0.0073)Leu;0.644,0.703,0.661,0.727,0.637,0.666,0.532,0.640,(0.4779)+(0.0012)Gln+(0.0050)Thr+(-0.0292)Arg+(-0.0771)Tyr+(0.0165)Orn+(0.0531)Phe;0.644,0.705,0.766,0.827,0.722,0.831,0.647,0.757,(2.5991)+(0.0032)Gln+(0.0100)Thr+(-0.0060)Ala+(-0.0192)Arg+(-0.0334)Tyr+(-0.0083)Lys;0.644,0.705,0.758,0.798,0.751,0.789,0.648,0.746,(2.7156)+(-0.0010)Gly+(0.0050)Gln+(-0.0713)Cit+(-0.0047)Arg+(-0.0386)Tyr+(-0.0109)Lys;0.644,0.700,0.758,0.776,0.706,0.820,0.774,0.769,(2.7803)+(-0.0009)Gly+(0.0008)Thr+(-0.0105)Ala+(0.0106)Pro+(-0.0120)Lys+(-0.0015)Leu;0.644,0.702,0.732,0.788,0.659,0.754,0.721,0.730,(2.9003)+(-0.0040)Gly+(0.0010)Gln+(0.0052)Thr+(-0.0486)Tyr+(-0.0277)Val+(0.0338)Leu;0.644,0.699,0.766,0.789,0.707,0.824,0.789,0.777,(2.2292)+(-0.0016)Gly+(0.0019)Gln+(-0.0105)Ala+(0.0102)Pro+(-0.0130)Lys+(-0.0017)Leu;0.644,0.701,0.692,0.674,0.698,0.748,0.687,0.702,(1.2896)+(-0.0185)Arg+(-0.0043)Pro+(0.0182)Orn+(-0.0244)Lys+(0.0356)Ile+(0.0108)Phe;0.644,0

.695,0.642,0.678,0.621,0.685,0.558,0.636,(1.6246)+(0.0038)Thr+(-0.026
3)Arg+(0.0006)Pro+(-0.0661)Tyr+(0.0142)Orn+(0.0312)Ile;0.644,0.711,0.
692,0.685,0.668,0.764,0.707,0.706,(-0.0487)+(0.0436)Ser+(-0.0083)Gly+
(-0.0002)Gln+(-0.0094)Thr+(-0.0191)Lys+(0.0000)Leu;0.644,0.708,0.654,
0.639,0.673,0.734,0.599,0.661,(-0.8726)+(0.0372)Ser+(-0.0069)Gly+(-0.
0020)Gln+(-0.0327)Arg+(0.0004)Pro+(0.0086)Orn;0.644,0.704,0.717,0.732
,0.738,0.715,0.636,0.705,(1.8027)+(-0.1267)Asn+(0.0025)Gly+(0.0056)Th
r+(-0.0200)Arg+(0.0138)Orn+(0.0306)Phe;0.644,0.704,0.749,0.778,0.750,
0.723,0.692,0.736,(0.7128)+(-0.1478)Asn+(0.0016)Gly+(0.0051)Gln+(0.00
67)Thr+(-0.0223)Arg+(0.0326)Phe;0.644,0.703,0.734,0.786,0.734,0.776,0
.566,0.715,(4.2654)+(-0.0015)Gly+(0.0107)Thr+(-0.0546)Cit+(-0.0119)Ar
g+(-0.0405)Tyr+(-0.0078)Val;0.644,0.708,0.691,0.672,0.747,0.762,0.573
,0.688,(1.0851)+(0.0018)Gly+(-0.0086)Thr+(-0.1012)Cit+(-0.0123)Arg+(-
0.0014)Pro+(0.0406)Orn;0.644,0.701,0.707,0.700,0.739,0.752,0.625,0.70
4,(0.5719)+(0.0005)Gln+(-0.0112)Thr+(-0.1072)Cit+(0.0449)Orn+(-0.0229
)Leu+(0.0365)Phe;0.644,0.705,0.708,0.768,0.686,0.768,0.552,0.693,(3.7
927)+(0.0099)Thr+(-0.0207)Arg+(0.0086)Pro+(-0.0442)Tyr+(-0.0115)Val+(
-0.0043)Lys;0.644,0.700,0.755,0.804,0.744,0.772,0.634,0.739,(2.4952)+
(-0.0015)Gly+(0.0044)Gln+(-0.0658)Cit+(-0.0117)Arg+(-0.0446)Tyr+(-0.0
049)Leu;0.644,0.708,0.658,0.679,0.689,0.775,0.452,0.649,(0.0083)+(0.0
263)Ser+(-0.0020)Gln+(-0.0328)Arg+(0.0036)Pro+(0.0157)Orn+(-0.0168)Le
u;0.644,0.705,0.766,0.793,0.753,0.768,0.716,0.758,(2.3297)+(-0.1361)A
sn+(-0.0001)Gly+(0.0040)Gln+(0.0026)Pro+(0.0194)Orn+(-0.0167)Leu;0.64
4,0.717,0.689,0.712,0.700,0.799,0.528,0.685,(-0.2625)+(0.0305)Ser+(-0
.0012)Gln+(-0.0143)Thr+(-0.0260)Arg+(0.0226)Orn+(-0.0126)Leu;0.644,0.
705,0.766,0.790,0.757,0.785,0.705,0.759,(2.5597)+(-0.1244)Asn+(0.0043
)Gln+(0.0040)Thr+(0.0222)Orn+(-0.0103)Lys+(-0.0101)Leu;0.644,0.704,0.
764,0.792,0.753,0.769,0.710,0.756,(2.3267)+(-0.1381)Asn+(0.0040)Gln+(

0.0011)Thr+(0.0025)Pro+(0.0189)Orn+(-0.0167)Leu;0.644,0.703,0.753,0.767,0.744,0.750,0.735,0.749,(1.1909)+(-0.1342)Asn+(0.0054)Gln+(0.0058)Thr+(-0.0220)Arg+(-0.0027)Pro+(0.0240)Ile;0.644,0.694,0.691,0.680,0.689,0.746,0.683,0.700,(1.5849)+(0.0007)Gly+(0.0023)Thr+(-0.0173)Arg+(-0.0037)Pro+(-0.0224)Lys+(0.0419)Ile;0.644,0.688,0.630,0.622,0.632,0.735,0.571,0.640,(0.8906)+(0.0259)Ser+(-0.0029)Gln+(-0.0661)Cit+(0.0044)Pro+(-0.0279)Val+(0.0305)Leu;0.643,0.703,0.631,0.591,0.677,0.714,0.582,0.641,(-1.8449)+(0.0263)Ser+(-0.0046)Gly+(-0.1092)Cit+(-0.0036)Pro+(0.0264)Orn+(0.0104)Phe;0.643,0.704,0.752,0.772,0.763,0.780,0.654,0.742,(3.9252)+(-0.0891)Asn+(0.0006)Gly+(-0.0138)Arg+(0.0310)Orn+(-0.0062)Lys+(-0.0112)Leu;0.643,0.699,0.664,0.725,0.640,0.656,0.559,0.645,(1.2773)+(-0.0025)Gly+(0.0075)Thr+(-0.0274)Arg+(-0.0797)Tyr+(0.0186)Orn+(0.0529)Phe;0.643,0.718,0.662,0.697,0.643,0.758,0.536,0.659,(0.4929)+(0.0305)Ser+(-0.0007)Gln+(-0.0043)Thr+(-0.0361)Tyr+(-0.0155)Lys+(0.0046)Leu;0.643,0.710,0.772,0.807,0.706,0.838,0.769,0.780,(3.7781)+(-0.0055)Ala+(-0.0094)Arg+(-0.0205)Tyr+(-0.0259)Val+(-0.0052)Lys+(0.0421)Leu;0.643,0.711,0.685,0.710,0.684,0.786,0.547,0.682,(0.0077)+(0.0327)Ser+(-0.0002)Gln+(-0.0062)Thr+(-0.0187)Arg+(-0.0147)Lys+(-0.0010)Leu;0.643,0.701,0.771,0.794,0.734,0.824,0.751,0.776,(1.5584)+(-0.0012)Gly+(0.0018)Gln+(-0.0020)Thr+(-0.0093)Ala+(-0.0235)Arg+(0.0231)Orn;0.643,0.700,0.773,0.805,0.708,0.837,0.777,0.782,(2.6886)+(-0.0018)Gly+(0.0018)Gln+(-0.0093)Ala+(0.0116)Pro+(-0.0090)Val+(-0.0090)Lys;0.643,0.701,0.729,0.780,0.724,0.747,0.592,0.711,(2.4162)+(-0.0019)Gly+(0.0038)Gln+(0.0065)Thr+(-0.0663)Cit+(-0.0144)Arg+(-0.0526)Tyr;0.643,0.700,0.685,0.666,0.696,0.743,0.672,0.694,(1.4665)+(0.0002)Gly+(-0.0010)Thr+(-0.0187)Arg+(0.0176)Orn+(-0.0234)Lys+(0.0326)Ile;0.643,0.699,0.648,0.606,0.696,0.729,0.600,0.658,(-0.0693)+(0.0030)Gly+(-0.0002)Gln+(-0.0143)Thr+(-0.1114)Cit+(0.0333)Orn+(0.0190)Ile;0.643,0.704,0.731,0.739,0

.662,0.789,0.815,0.751,(0.4729)+(-0.0003)Gln+(-0.0099)Thr+(-0.0129)Al
a+(0.0088)Pro+(0.0137)Orn+(0.0241)Phe;0.643,0.703,0.672,0.666,0.665,0
.727,0.665,0.681,(-1.0587)+(0.0432)Ser+(-0.0069)Gly+(-0.0007)Gln+(-0.
0156)Thr+(-0.0249)Arg+(0.0030)Pro;0.643,0.697,0.654,0.691,0.624,0.679
,0.599,0.648,(2.0119)+(-0.0015)Gly+(0.0072)Thr+(-0.0246)Arg+(0.0010)P
ro+(-0.0671)Tyr+(0.0342)Ile;0.643,0.702,0.712,0.756,0.656,0.762,0.680
,0.713,(2.8753)+(0.0013)Gln+(0.0067)Pro+(-0.0410)Tyr+(-0.0266)Val+(-0
.0110)Lys+(0.0347)Leu;0.643,0.700,0.717,0.753,0.662,0.748,0.714,0.719
,(3.7183)+(-0.0022)Gly+(0.0072)Pro+(-0.0414)Tyr+(-0.0271)Val+(-0.0089
)Lys+(0.0351)Leu;0.643,0.689,0.622,0.620,0.632,0.697,0.555,0.626,(-0.
7087)+(0.0277)Ser+(-0.0031)Gln+(-0.0744)Cit+(0.0035)Pro+(-0.0166)Val+
(0.0518)Phe;0.643,0.696,0.701,0.739,0.698,0.742,0.574,0.688,(3.6533)+
(-0.0033)Gly+(0.0091)Thr+(-0.0190)Arg+(-0.0518)Tyr+(0.0315)Orn+(-0.01
36)Lys;0.643,0.701,0.787,0.830,0.741,0.805,0.760,0.784,(0.5422)+(-0.0
005)Gly+(0.0022)Gln+(-0.0090)Ala+(-0.0234)Arg+(-0.0124)Leu+(0.0512)Ph
e;0.643,0.700,0.736,0.759,0.736,0.749,0.668,0.728,(3.3449)+(-0.1207)A
sn+(0.0006)Gly+(0.0020)Thr+(0.0030)Pro+(0.0227)Orn+(-0.0166)Leu;0.643
,0.697,0.732,0.795,0.696,0.774,0.607,0.718,(2.8068)+(0.0030)Gln+(-0.0
198)Arg+(0.0084)Pro+(-0.0416)Tyr+(-0.0112)Val+(-0.0038)Lys;0.643,0.69
7,0.672,0.715,0.638,0.691,0.617,0.665,(1.4123)+(-0.0023)Gly+(0.0022)G
ln+(0.0061)Thr+(-0.0269)Arg+(-0.0677)Tyr+(0.0337)Ile;0.643,0.713,0.68
3,0.709,0.686,0.794,0.532,0.680,(-0.6708)+(0.0303)Ser+(-0.0164)Thr+(-
0.0275)Arg+(0.0047)Pro+(0.0197)Orn+(-0.0156)Leu;0.643,0.705,0.768,0.7
96,0.708,0.844,0.764,0.778,(3.0628)+(-0.0011)Gly+(0.0086)Thr+(-0.0072
)Ala+(-0.0189)Arg+(-0.0297)Val+(0.0413)Leu;0.643,0.701,0.758,0.770,0.
753,0.775,0.726,0.756,(2.2447)+(-0.1215)Asn+(-0.0004)Gly+(0.0043)Gln+
(0.0042)Thr+(0.0193)Orn+(-0.0144)Lys;0.643,0.699,0.692,0.725,0.671,0.
729,0.624,0.687,(3.1582)+(-0.0035)Gly+(0.0038)Thr+(0.0041)Pro+(-0.056

1)Tyr+(0.0282)Orn+(-0.0168)Lys;0.643,0.701,0.724,0.740,0.707,0.748,0.702,0.724,(1.1858)+(-0.0019)Gly+(-0.0016)Thr+(-0.0166)Val+(0.0295)Orn+(-0.0164)Lys+(0.0440)Phe;0.643,0.695,0.682,0.724,0.640,0.699,0.646,0.677,(1.3225)+(-0.0018)Gly+(0.0025)Gln+(-0.0242)Arg+(0.0009)Pro+(-0.0644)Tyr+(0.0332)Ile;0.642,0.704,0.727,0.778,0.687,0.773,0.644,0.720,(3.8867)+(-0.0031)Gly+(0.0135)Thr+(-0.0212)Arg+(-0.0444)Tyr+(-0.0283)Val+(0.0358)Leu;0.642,0.707,0.640,0.619,0.646,0.717,0.625,0.652,(-2.2989)+(0.0361)Ser+(-0.0063)Gly+(-0.0364)Arg+(-0.0032)Pro+(0.0243)Ile+(0.0020)Phe;0.642,0.701,0.651,0.610,0.698,0.732,0.602,0.660,(-0.0651)+(0.0029)Gly+(-0.0144)Thr+(-0.1114)Cit+(0.0332)Orn+(0.0193)Ile+(-0.0021)Phe;0.642,0.706,0.722,0.720,0.737,0.717,0.700,0.719,(1.9981)+(-0.1193)Asn+(0.0056)Thr+(-0.0195)Arg+(0.0110)Orn+(0.0135)Ile+(0.0189)Phe;0.642,0.707,0.762,0.810,0.742,0.762,0.677,0.748,(4.6098)+(-0.0752)Asn+(0.0006)Gly+(-0.0079)Arg+(-0.0302)Tyr+(-0.0012)Lys+(-0.0033)Leu;0.642,0.701,0.682,0.661,0.695,0.741

,0.670,0.692,(1.1721)+(0.0003)Gly+(-0.0195)Arg+(0.0166)Orn+(-0.0243)Lys+(0.0305)Ile+(0.0101)Phe;0.642,0.700,0.719,0.767,0.669,0.746,0.679,0.715,(3.8307)+(-0.0018)Gly+(-0.0163)Arg+(0.0083)Pro+(-0.0423)Tyr+(-0.0274)Val+(0.0311)Leu;0.642,0.695,0.691,0.682,0.740,0.765,0.558,0.686,(1.4994)+(-0.0001)Gly+(-0.0004)Gln+(-0.1085)Cit+(0.0001)Pro+(0.0428)Orn+(-0.0173)Leu;0.642,0.704,0.730,0.735,0.722,0.716,0.746,0.730,(0.4072)+(-0.1556)Asn+(0.0018)Gly+(0.0037)Gln+(0.0037)Orn+(0.0142)Ile+(0.0179)Phe;0.642,0.703,0.733,0.742,0.663,0.789,0.816,0.753,(0.4198)+(-0.0002)Gly+(-0.0100)Thr+(-0.0129)Ala+(0.0087)Pro+(0.0136)Orn+(0.0236)Phe;0.642,0.708,0.625,0.607,0.634,0.751,0.563,0.639,(-0.5071)+(0.0353)Ser+(-0.0021)Gln+(-0.0149)Thr+(0.0035)Pro+(0.0219)Orn+(-0.0207)Lys;0.642,0.707,0.620,0.613,0.632,0.713,0.547,0.626,(-2.2467)+(0.0378)Ser+(-0.0021)Gln+(-0.0169)Thr+(-0.0267)Arg+(0.0024)Pro+(0.0267)Phe;0.642,0

.705,0.739,0.746,0.726,0.723,0.761,0.739,(0.3613)+(-0.1545)Asn+(0.0019)Gly+(0.0040)Gln+(-0.0028)Pro+(0.0188)Ile+(0.0193)Phe;0.642,0.705,0.778,0.806,0.767,0.777,0.729,0.770,(2.2059)+(-0.1104)Asn+(0.0003)Gly+(0.0058)Gln+(-0.0145)Arg+(0.0022)Pro+(-0.0085)Lys;0.642,0.707,0.640,0.619,0.647,0.719,0.626,0.653,(-2.2289)+(0.0360)Ser+(-0.0063)Gly+(-0.0362)Arg+(-0.0032)Pro+(0.0005)Orn+(0.0247)Ile;0.642,0.709,0.646,0.691,0.609,0.730,0.543,0.643,(-0.3597)+(0.0268)Ser+(-0.0166)Thr+(0.0069)Pro+(-0.0511)Tyr+(0.0190)Orn+(-0.0100)Leu;0.642,0.707,0.715,0.759,0.664,0.785,0.657,0.716,(2.9020)+(0.0011)Gln+(0.0091)Thr+(-0.0392)Tyr+(-0.0277)Val+(-0.0145)Lys+(0.0410)Leu;0.642,0.703,0.710,0.728,0.691,0.748,0.673,0.710,(0.8914)+(-0.0033)Thr+(0.0026)Pro+(-0.0170)Val+(0.0277)Orn+(-0.0163)Lys+(0.0429)Phe;0.642,0.701,0.735,0.744,0.747,0.728,0.690,0.727,(2.7263)+(-0.1088)Asn+(0.0119)Thr+(-0.0137)Arg+(0.0005)Pro+(-0.0128)Lys+(0.0409)Phe;0.641,0.704,0.729,0.735,0.734,0.728,0.705,0.726,(2.2564)+(-0.1192)Asn+(0.0018)Gly+(0.0083)Thr+(0.0007)Pro+(-0.0144)Lys+(0.0415)Phe;0.641,0.699,0.761,0.784,0.701,0.825,0.776,0.772,(2.1005)+(0.0016)Gln+(-0.0012)Thr+(-0.0105)Ala+(0.0104)Pro+(-0.0128)Lys+(-0.0014)Leu;0.641,0.700,0.673,0.630,0.716,0.731,0.657,0.684,(0.3037)+(0.0004)Gln+(-0.0131)Thr+(-0.1078)Cit+(0.0336)Orn+(0.0178)Ile+(-0.0054)Phe;0.641,0.703,0.747,0.765,0.760,0.776,0.655,0.739,(3.9710)+(-0.0899)Asn+(-0.0143)Arg+(0.0036)Pro+(0.0297)Orn+(-0.0061)Lys+(-0.0135)Leu;0.641,0.703,0.705,0.708,0.717,0.728,0.651,0.701,(2.1101)+(-0.1156)Asn+(0.0025)Gly+(0.0042)Thr+(-0.0194)Arg+(0.0115)Orn+(0.0207)Ile;0.641,0.699,0.763,0.793,0.704,0.830,0.760,0.772,(3.2163)+(-0.0013)Gly+(0.0020)Thr+(-0.0093)Ala+(0.0119)Pro+(-0.0092)Val+(-0.0083)Lys;0.641,0.699,0.640,0.603,0.709,0.730,0.530,0.643,(0.0590)+(0.0021)Gly+(-0.0987)Cit+(-0.0188)Arg+(0.0284)Orn+(0.0183)Ile+(-0.0021)Phe;0.641,0.700,0.710,0.747,0.677,0.742,0.657,0.706,(2.5823)+(-0.0040)Gly+(0.0021)Gln+(0.0039

)Pro+(-0.0557)Tyr+(0.0275)Orn+(-0.0171)Lys;0.641,0.703,0.715,0.731,0.695,0.744,0.695,0.716,(1.1759)+(-0.0020)Gly+(0.0023)Pro+(-0.0173)Val+(0.0279)Orn+(-0.0170)Lys+(0.0422)Phe;0.641,0.700,0.764,0.798,0.700,0.836,0.757,0.773,(2.5537)+(0.0013)Gln+(-0.0000)Thr+(-0.0094)Ala+(0.0117)Pro+(-0.0089)Val+(-0.0090)Lys;0.641,0.703,0.628,0.670,0.598,0.714,0.520,0.625,(0.2155)+(0.0304)Ser+(-0.0018)Gln+(-0.0126)Thr+(0.0079)Pro+(-0.0487)Tyr+(-0.0066)Leu;0.641,0.693,0.582,0.569,0.561,0.689,0.580,0.600,(-0.5614)+(0.0282)Ser+(-0.0056)Gln+(0.0033)Pro+(-0.0343)Val+(0.0303)Leu+(0.0381)Phe;0.641,0.701,0.731,0.762,0.740,0.768,0.603,0.718,(3.9406)+(0.0009)Gly+(-0.0695)Cit+(0.0004)Arg+(-0.0344)Tyr+(-0.0097)Lys+(0.0023)Leu;0.641,0.700,0.771,0.810,0.699,0.803,0.797,0.777,(0.7296)+(-0.0009)Gly+(0.0003)Gln+(-0.0008)Thr+(-0.0084)Ala+(-0.0135)Val+(0.0542)Phe;0.641,0.703,0.760,0.785,0.758,0.728,0.721,0.748,(0.8800)+(-0.1460)Asn+(0.0054)Gln+(0.0074)Thr+(-0.0222)Arg+(-0.0009)Pro+(0.0313)Phe;0.640,0.702,0.697,0.763,0.653,0.664,0.635,0.679,(0.6183)+(-0.0022)Gly+(0.0027)Gln+(-0.0247)Arg+(0.0039)Pro+(-0.0771)Tyr+(0.0535)Phe;0.640,0.703,0.599,0.539,0.646,0.701,0.586,0.618,(-2.2131)+(0.0262)Ser+(-0.0043)Gly+(-0.1074)Cit+(0.0194)Orn+(0.0167)Ile+(-0.0038)Phe;0.640,0.697,0.637,0.600,0.707,0.725,0.527,0.640,(0.0301)+(0.0022)Gly+(-0.0002)Gln+(-0.0988)Cit+(-0.0187)Arg+(0.0284)Orn+(0.0179)Ile;0.640,0.692,0.658,0.654,0.673,0.702,0.604,0.658,(-1.5008)+(0.0293)Ser+(-0.0050)Gly+(-0.0848)Cit+(0.0012)Pro+(-0.0197)Leu+(0.0391)Phe;0.640,0.696,0.684,0.668,0.688,0.732,0.682,0.693,(1.1399)+(0.0008)Gly+(0.0010)Thr+(-0.0183)Arg+(-0.0230)Lys+(0.0344)Ile+(0.0126)Phe;0.640,0.706,0.709,0.772,0.699,0.768,0.520,0.690,(2.2608)+(0.0019)Gln+(0.0018)Thr+(-0.0268)Arg+(-0.0494)Tyr+(0.0278)Orn+(-0.0114)Leu;0.640,0.702,0.752,0.802,0.702,0.802,0.686,0.748,(2.7389)+(0.0030)Gln+(-0.0155)Arg+(-0.0328)Tyr+(-0.0254)Val+(-0.0077)Lys+(0.0351)Leu;0.640,0.699,0.756,0.805,0.691,0.808,

0.724,0.757,(2.4126)+(-0.0036)Gly+(0.0014)Gln+(-0.0070)Ala+(-0.0434)Tyr+(0.0257)Orn+(-0.0053)Leu;0.640,0.701,0.686,0.664,0.697,0.740,0.678,0.695,(1.2312)+(-0.0008)Thr+(-0.0190)Arg+(0.0171)Orn+(-0.0241)Lys+(0.0304)Ile+(0.0099)Phe;0.640,0.701,0.748,0.788,0.746,0.789,0.616,0.735,(4.3012)+(0.0003)Gly+(-0.0609)Cit+(-0.0026)Arg+(-0.0296)Tyr+(-0.0054)Val+(-0.0053)Lys;0.640,0.696,0.724,0.789,0.663,0.729,0.672,0.713,(2.8784)+(-0.0042)Gly+(0.0017)Gln+(0.0021)Thr+(0.0082)Pro+(-0.0529)Tyr+(-0.0129)Val;0.640,0.704,0.715,0.734,0.700,0.752,0.669,0.714,(0.9949)+(-0.0004)Gln+(-0.0023)Thr+(-0.0166)Val+(0.0289)Orn+(-0.0162)Lys+(0.0456)Phe;0.640,0.703,0.657,0.728,0.626,0.651,0.536,0.635,(0.4124)+(0.0016)Gln+(0.0069)Thr+(-0.0286)Arg+(0.0036)Pro+(-0.0797)Tyr+(0.0558)Phe;0.640,0.697,0.762,0.799,0.712,0.826,0.720,0.764,(3.3442)+(-0.0009)Gly+(0.0043)Thr+(-0.0091)Ala+(-0.0190)Arg+(0.0122)Pro+(-0.0112)Val;0.640,0.704,0.742,0.742,0.733,0.717,0.776,0.742,(0.5909)+(-0.1533)Asn+(0.0040)Gln+(0.0006)Thr+(0.0043)Orn+(0.0131)Ile+(0.0161)Phe;0.640,0.707,0.658,0.660,0.611,0.773,0.665,0.677,(-0.9398)+(0.0262)Ser+(-0.0200)Thr+(0.0042)Pro+(-0.0309)Val+(0.0208)Orn+(0.0298)Leu;0.640,0.700,0.766,0.790,0.681,0.842,0.826,0.785,(2.2392)+(-0.0017)Gly+(0.0006)Gln+(0.0017)Thr+(-0.0080)Ala+(-0.0293)Val+(0.0403)Leu;0.640,0.713,0.634,0.637,0.637,0.736,0.549,0.640,(-2.0311)+(0.0290)Ser+(0.0013)Pro+(0.0133)Orn+(-0.0272)Lys+(-0.0103)Leu+(0.0421)Phe;0.640,0.699,0.721,0.737,0.703,0.747,0.695,0.721,(1.2001)+(-0.0020)Gly+(-0.0001)Gln+(-0.0168)Val+(0.0291)Orn+(-0.0168)Lys+(0.0442)Phe;0.640,0.705,0.732,0.737,0.721,0.713,0.754,0.731,(0.3895)+(-0.1563)Asn+(0.0019)Gly+(0.0038)Gln+(0.0005)Thr+(0.0152)Ile+(0.0187)Phe;0.640,0.701,0.755,0.766,0.751,0.773,0.720,0.752,(2.2017)+(-0.1220)Asn+(0.0043)Gln+(0.0039)Thr+(0.0006)Pro+(0.0190)Orn+(-0.0143)Lys;0.640,0.698,0.720,0.775,0.675,0.755,0.642,0.712,(3.8239)+(-0.0034)Gly+(0.0072)Thr+(0.0081)Pro+(-0.0476)Tyr+(-0.0108)Val+

(-0.0081)Lys;0.640,0.710,0.660,0.655,0.666,0.722,0.617,0.665,(-1.9262)+(0.0357)Ser+(-0.0070)Gly+(-0.0359)Arg+(-0.0006)Pro+(0.0047)Orn+(0.0126)Phe;0.640,0.695,0.692,0.681,0.689,0.744,0.692,0.701,(1.1893)+(0.0009)Gly+(-0.0169)Arg+(-0.0036)Pro+(-0.0228)Lys+(0.0393)Ile+(0.0137)Phe;0.640,0.701,0.727,0.760,0.718,0.754,0.636,0.717,(1.0986)+(-0.0014)Gly+(0.0005)Gln+(-0.0290)Arg+(-0.0211)Val+(0.0294)Orn+(0.0433)Phe;0.640,0.703,0.741,0.762,0.677,0.787,0.787,0.753,(0.5286)+(-0.0098)Thr+(-0.0118)Ala+(0.0097)Pro+(0.0178)Orn+(-0.0160)Leu+(0.0387)Phe;0.640,0.702,0.710,0.744,0.704,0.751,0.604,0.701,(1.0141)+(-0.0000)Gln+(-0.0295)Arg+(0.0030)Pro+(-0.0217)Val+(0.0278)Orn+(0.0426)Phe;0.639,0.704,0.782,0.827,0.737,0.805,0.743,0.778,(0.4936)+(0.0019)Gln+(0.0022)Thr+(-0.0091)Ala+(-0.0244)Arg+(-0.0126)Leu+(0.0517)Phe;0.639,0.687,0.661,0.654,0.681,0.727,0.591,0.663,(0.2263)+(0.0308)Ser+(-0.0056)Gly+(-0.0013)Gln+(-0.0770)Cit+(0.0026)Pro+(-0.0124)Leu;0.639,0.700,0.659,0.623,0.720,0.732,0.576,0.663,(0.3389)+(0.0004)Gln+(-0.0964)Cit+(-0.0185)Arg+(0.0289)Orn+(0.0171)Ile+(-0.0043)Phe;0.639,0.697,0.741,0.756,0.666,0.788,0.822,0.758,(0.4611)+(-0.0001)Gly+(0.0001)Gln+(-0.0076)Thr+(-0.0129)Ala+(0.0093)Pro+(0.0277)Phe;0.639,0.688,0.621,0.616,0.652,0.690,0.518,0.619,(-1.2401)+(0.0270)Ser+(-0.0025)Gln+(-0.0872)Cit+(0.0018)Pro+(-0.0192)Leu+(0.0456)Phe;0.639,0.704,0.742,0.812,0.720,0.803,0.557,0.723,(2.7987)+(0.0031)Gln+(0.0097)Thr+(-0.0223)Arg+(-0.0379)Tyr+(-0.0087)Val+(-0.0065)Lys;0.639,0.703,0.717,0.766,0.728,0.746,0.545,0.696,(3.7407)+(-0.0009)Gly+(0.0090)Thr+(-0.0623)Cit+(-0.0113)Arg+(-0.0467)Tyr+(-0.0039)Leu;0.639,0.693,0.693,0.680,0.691,0.743,0.695,0.702,(1.3238)+(0.0026)Thr+(-0.0176)Arg+(-0.0039)Pro+(-0.0233)Lys+(0.0387)Ile+(0.0132)Phe;0.639,0.701,0.773,0.809,0.773,0.797,0.660,0.760,(2.5907)+(-0.1251)Asn+(0.0050)Gln+(0.0052)Thr+(-0.0212)Arg+(0.0222)Orn+(-0.0152)Leu;0.639,0.692,0.621,0.615,0.588,0.734,0.629,0.641,(0.2998)+(0.0316)

Ser+(-0.0036)Gln+(-0.0143)Thr+(0.0060)Pro+(-0.0309)Val+(0.0341)Leu;0.639,0.703,0.728,0.747,0.667,0.780,0.765,0.740,(0.5244)+(-0.0012)Gln+(-0.0123)Ala+(0.0092)Pro+(0.0139)Orn+(-0.0163)Leu+(0.0392)Phe;0.639,0.704,0.776,0.814,0.738,0.805,0.735,0.773,(1.0897)+(0.0000)Gly+(0.0037)Thr+(-0.0090)Ala+(-0.0227)Arg+(-0.0124)Leu+(0.0536)Phe;0.639,0.700,0.797,0.850,0.743,0.836,0.741,0.793,(2.6637)+(-0.0026)Gly+(0.0045)Gln+(-0.0057)Ala+(-0.0153)Arg+(-0.0310)Tyr+(-0.0066)Lys;0.639,0.708,0.659,0.675,0.616,0.738,0.647,0.669,(-2.2762)+(0.0285)Ser+(-0.0222)Thr+(0.0042)Pro+(-0.0190)Val+(0.0178)Orn+(0.0412)Phe;0.639,0.699,0.736,0.751,0.741,0.762,0.669,0.731,(3.6821)+(-0.1063)Asn+(0.0044)Thr+(0.0028)Pro+(0.0254)Orn+(-0.0095)Lys+(-0.0117)Leu;0.639,0.698,0.742,0.767,0.754,0.767,0.632,0.730,(3.7227)+(-0.0998)Asn+(0.0010)Gly+(-0.0168)Arg+(0.0038)Pro+(0.0275)Orn+(-0.0165)Leu;0.639,0.709,0.642,0.634,0.646,0.768,0.562,0.652,(-0.3389)+(0.0337)Ser+(-0.0018)Gln+(-0.0135)Thr+(0.0237)Orn+(-0.0197)Lys+(-0.0011)Leu;0.639,0.699,0.659,0.724,0.630,0.638,0.565,0.639,(1.2814)+(-0.0021)Gly+(0.0098)Thr+(-0.0264)Arg+(0.0038)Pro+(-0.0819)Tyr+(0.0566)Phe;0.639,0.693,0.768,0.806,0.716,0.827,0.737,0.772,(1.9281)+(0.0020)Gln+(-0.0005)Thr+(-0.0105)Ala+(-0.0211)Arg+(0.0109)Pro+(-0.0076)Leu;0.639,0.705,0.692,0.674,0.746,0.761,0.581,0.690,(0.7041)+(0.0017)Gly+(0.0009)Gln+(-0.0098)Thr+(-0.1005)Cit+(-0.0133)Arg+(0.0384)Orn;0.639,0.696,0.748,0.772,0.682,0.791,0.792,0.759,(0.6221)+(-0.0010)Gly+(-0.0003)Gln+(-0.0122)Ala+(0.0098)Pro+(-0.0147)Leu+(0.0404)Phe;0.638,0.699,0.730,0.733,0.719,0.730,0.745,0.732,(0.8704)+(-0.1478)Asn+(0.0015)Gly+(0.0037)G

ln+(-0.0004)Thr+(0.0054)Orn+(0.0183)Ile;0.638,0.705,0.709,0.693,0.756,0.764,0.614,0.707,(0.8672)+(0.0014)Gln+(-0.0087)Thr+(-0.0993)Cit+(-0.0136)Arg+(-0.0019)Pro+(0.0392)Orn;0.638,0.699,0.716,0.747,0.708,0.750,0.625,0.708,(1.2340)+(-0.0012)Gly+(-0.0290)Arg+(0.0030)Pro+(-0.0217

)Val+(0.0285)Orn+(0.0416)Phe;0.638,0.705,0.749,0.749,0.737,0.734,0.785,0.751,(0.5700)+(-0.1513)Asn+(0.0042)Gln+(-0.0029)Pro+(0.0051)Orn+(0.0166)Ile+(0.0166)Phe;0.638,0.704,0.785,0.839,0.732,0.838,0.712,0.780,(2.3603)+(0.0038)Gln+(-0.0061)Ala+(-0.0153)Arg+(-0.0292)Tyr+(-0.0075)Lys+(0.0028)Leu;0.638,0.699,0.754,0.796,0.692,0.784,0.751,0.756,(3.0009)+(-0.0030)Gly+(0.0027)Gln+(-0.0374)Tyr+(-0.0258)Val+(-0.0112)Lys+(0.0369)Leu;0.638,0.701,0.578,0.549,0.610,0.695,0.502,0.589,(-2.1822)+(0.0328)Ser+(-0.0031)Gln+(-0.0352)Arg+(-0.0027)Pro+(0.0283)Ile+(0.0076)Phe;0.638,0.696,0.774,0.833,0.722,0.814,0.699,0.767,(2.6124)+(-0.0034)Gly+(0.0035)Gln+(0.0096)Thr+(-0.0066)Ala+(-0.0226)Arg+(-0.0414)Tyr;0.638,0.693,0.746,0.810,0.702,0.761,0.660,0.733,(3.0497)+(-0.0034)Gly+(0.0037)Gln+(-0.0209)Arg+(0.0086)Pro+(-0.0462)Tyr+(-0.0123)Val;0.638,0.701,0.758,0.781,0.706,0.793,0.782,0.765,(0.3203)+(-0.0001)Gln+(-0.0077)Thr+(-0.0097)Ala+(0.0206)Orn+(-0.0140)Leu+(0.0430)Phe;0.638,0.699,0.785,0.822,0.771,0.785,0.716,0.773,(2.5739)+(-0.1111)Asn+(0.0059)Gln+(-0.0156)Arg+(0.0039)Pro+(-0.0044)Lys+(-0.0109)Leu;0.638,0.707,0.721,0.741,0.700,0.777,0.669,0.722,(1.7872)+(0.0098)Thr+(-0.0209)Arg+(-0.0314)Val+(-0.0140)Lys+(0.0336)Leu+(0.0440)Phe;0.638,0.689,0.772,0.807,0.721,0.826,0.749,0.776,(2.0178)+(-0.0011)Gly+(0.0022)Gln+(-0.0105)Ala+(-0.0211)Arg+(0.0108)Pro+(-0.0080)Leu;0.638,0.705,0.797,0.859,0.746,0.857,0.696,0.789,(2.6810)+(0.0038)Gln+(-0.0049)Ala+(-0.0168)Arg+(-0.0254)Tyr+(-0.0059)Val+(-0.0036)Lys;0.637,0.699,0.739,0.793,0.718,0.767,0.616,0.724,(2.6802)+(-0.0041)Gly+(0.0030)Gln+(-0.0254)Arg+(-0.0518)Tyr+(0.0303)Orn+(-0.0124)Leu;0.637,0.703,0.723,0.730,0.651,0.794,0.804,0.745,(0.4455)+(-0.0009)Gly+(-0.0009)Gln+(-0.0135)Ala+(0.0081)Pro+(0.0095)Orn+(0.0230)Phe;0.637,0.698,0.716,0.727,0.672,0.754,0.753,0.726,(1.6213)+(-0.0009)Gly+(0.0031)Pro+(-0.0300)Val+(-0.0162)Lys+(0.0320)Leu+(0.0356)Phe;0.637,0.702,0.765,0.829,0.717,0.823,0.652,0.7

55,(2.2941)+(0.0029)Gln+(0.0076)Thr+(-0.0065)Ala+(-0.0225)Arg+(-0.0366)Tyr+(-0.0009)Leu;0.637,0.697,0.722,0.751,0.720,0.795,0.597,0.716,(2.3875)+(0.0012)Gln+(-0.0234)Arg+(0.0043)Pro+(-0.0154)Val+(0.0316)Orn+(-0.0097)Lys;0.637,0.696,0.698,0.758,0.678,0.741,0.552,0.682,(2.3390)+(0.0028)Gln+(0.0078)Thr+(-0.0210)Arg+(0.0052)Pro+(-0.0511)Tyr+(-0.0116)Lys;0.637,0.694,0.749,0.797,0.680,0.802,0.732,0.753,(2.2164)+(-0.0034)Gly+(0.0013)Gln+(-0.0002)Thr+(-0.0075)Ala+(-0.0447)Tyr+(0.0236)Orn;0.637,0.702,0.720,0.755,0.712,0.754,0.615,0.709,(0.9468)+(0.0003)Gln+(-0.0013)Thr+(-0.0287)Arg+(-0.0209)Val+(0.0293)Orn+(0.0447)Phe;0.637,0.700,0.767,0.795,0.763,0.775,0.696,0.757,(2.3519)+(-0.1201)Asn+(0.0056)Gln+(0.0092)Thr+(-0.0168)Arg+(0.0014)Pro+(-0.0099)Lys;0.637,0.702,0.771,0.831,0.732,0.826,0.652,0.760,(4.2262)+(-0.0027)Gly+(0.0131)Thr+(-0.0049)Ala+(-0.0191)Arg+(-0.0328)Tyr+(-0.0074)Val;0.637,0.704,0.745,0.761,0.735,0.720,0.739,0.739,(0.6000)+(-0.1556)Asn+(0.0014)Gly+(0.0039)Gln+(-0.0010)Pro+(0.0085)Orn+(0.0264)Phe;0.637,0.699,0.634,0.628,0.609,0.688,0.661,0.647,(-0.5957)+(0.0347)Ser+(-0.0074)Gly+(-0.0040)Gln+(0.0041)Pro+(-0.0200)Val+(0.0424)Phe;0.637,0.695,0.686,0.687,0.647,0.749,0.720,0.701,(0.3034)+(0.0394)Ser+(-0.0079)Gly+(-0.0016)Gln+(-0.0156)Thr+(0.0071)Pro+(-0.0143)Val;0.637,0.700,0.736,0.741,0.721,0.739,0.753,0.738,(0.8661)+(-0.1472)Asn+(0.0014)Gly+(0.0039)Gln+(-0.0028)Pro+(0.0059)Orn+(0.0216)Ile;0.637,0.706,0.760,0.822,0.725,0.835,0.613,0.749,(3.9193)+(0.0124)Thr+(-0.0049)Ala+(-0.0176)Arg+(-0.0285)Tyr+(-0.0062)Val+(-0.0043)Lys;0.637,0.697,0.779,0.820,0.770,0.789,0.681,0.765,(2.6964)+(-0.1215)Asn+(0.0058)Gln+(0.0101)Thr+(-0.0176)Arg+(-0.0060)Lys+(-0.0086)Leu;0.637,0.701,0.744,0.762,0.735,0.708,0.742,0.737,(0.5928)+(-0.1594)Asn+(0.0014)Gly+(0.0041)Gln+(0.0026)Thr+(-0.0008)Pro+(0.0290)Phe;0.637,0.699,0.744,0.773,0.705,0.779,0.719,0.744,(1.3021)+(0.0019)Gln+(-0.0191)Arg+(-0.0287)Val+(-0.0119)Lys+(0.0297)Leu+(0.

0421)Phe;0.637,0.699,0.769,0.796,0.740,0.826,0.714,0.769,(2.5366)+(-0.0011)Gly+(-0.0002)Thr+(-0.0082)Ala+(-0.0222)Arg+(0.0281)Orn+(-0.0081)Leu;0.637,0.696,0.772,0.801,0.766,0.778,0.699,0.761,(2.4017)+(-0.1200)Asn+(-0.0002)Gly+(0.0057)Gln+(0.0098)Thr+(-0.0168)Arg+(-0.0097)Lys;0.637,0.694,0.680,0.720,0.659,0.731,0.581,0.673,(2.2228)+(0.0011)Gln+(0.0002)Thr+(0.0040)Pro+(-0.0522)Tyr+(0.0256)Orn+(-0.0173)Lys;0.637,0.703,0.748,0.751,0.734,0.725,0.787,0.749,(0.5581)+(-0.1544)Asn+(0.0043)Gln+(0.0019)Thr+(-0.0030)Pro+(0.0176)Ile+(0.0177)Phe;0.637,0.689,0.622,0.664,0.568,0.618,0.625,0.619,(0.1468)+(-0.0006)Gln+(-0.0037)Thr+(-0.0794)Tyr+(0.0084)Orn+(0.0242)Ile+(0.0342)Phe;0.637,0.690,0.639,0.682,0.581,0.620,0.659,0.636,(0.3813)+(-0.0025)Gly+(-0.0021)Thr+(-0.0820)Tyr+(0.0091)Orn+(0.0227)Ile+(0.0341)Phe;0.637,0.697,0.589,0.535,0.629,0.687,0.579,0.607,(-1.3424)+(0.0320)Ser+(-0.0035)Gly+(-0.0029)Gln+(-0.0881)Cit+(-0.0043)Pro+(0.0302)Ile;0.637,0.702,0.739,0.752,0.733,0.712,0.734,0.733,(0.5949)+(-0.1575)Asn+(0.0014)Gly+(0.0038)Gln+(0.0009)Thr+(0.0075)Orn+(0.0256)Phe;0.637,0.700,0.761,0.782,0.710,0.792,0.788,0.768,(0.4282)+(-0.0009)Gly+(-0.0072)Thr+(-0.0097)Ala+(0.0207)Orn+(-0.0141)Leu+(0.0424)Phe;0.636,0.696,0.681,0.658,0.729,0.749,0.593,0.682,(0.6384)+(0.0018)Gly+(0.0003)Gln+(-0.0124)Thr+(-0.1110)Cit+(-0.0017)Pro+(0.0403)Orn;0.636,0.691,0.706,0.707,0.706,0.774,0.655,0.710,(3.2690)+(0.0013)Gly+(-0.0631)Cit+(0.0046)Pro+(-0.0257)Val+(-0.0132)Lys+(0.0346)Leu;0.636,0.695,0.738,0.796,0.683,0.754,0.685,0.730,(3.0123)+(-0.0037)Gly+(0.0027)Gln+(0.0080)Pro+(-0.0463)Tyr+(-0.0105)Val+(-0.0080)Lys;0.636,0.693,0.751,0.779,0.743,0.803,0.656,0.745,(2.5942)+(-0.0027)Gly+(0.0021)Gln+(-0.0227)Arg+(-0.0142)Val+(0.0340)Orn+(-0.0099)Lys;0.636,0.697,0.741,0.759,0.746,0.764,0.664,0.733,(3.7045)+(-0.1058)Asn+(0.0001)Gly+(0.0053)Thr+(0.0262)Orn+(-0.0096)Lys+(-0.0101)Leu;0.636,0.697,0.796,0.836,0.778,0.794,0.729,0.784,(2.5541)+(-0.1098)Asn+(

-0.0001)Gly+(0.0063)Gln+(-0.0149)Arg+(-0.0046)Lys+(-0.0083)Leu;0.636,0.701,0.747,0.793,0.689,0.801,0.711,0.748,(2.8362)+(-0.0031)Gly+(0.0008)Thr+(-0.0069)Ala+(-0.0423)Tyr+(0.0270)Orn+(-0.0050)Leu;0.636,0.700,0.723,0.755,0.717,0.752,0.631,0.714,(1.2297)+(-0.0012)Gly+(-0.0005)Thr+(-0.0283)Arg+(-0.0210)Val+(0.0301)Orn+(0.0441)Phe;0.636,0.698,0.695,0.672,0.681,0.751,0.749,0.713,(0.7754)+(0.0010)Gln+(-0.0049)Thr+(-0.0047)Pro+(0.0156)Orn+(-0.0273)Lys+(0.0395)Ile;0.636,0.692,0.575,0.517,0.619,0.665,0.569,0.593,(-1.5201)+(0.0322)Ser+(-0.0034)Gly+(-0.0033)Gln+(-0.0891)Cit+(0.0234)Ile+(0.0041)Phe;0.636,0.701,0.709,0.707,0.708,0.713,0.714,0.710,(1.2921)+(-0.1355)Asn+(0.0026)Gly+(-0.0022)Pro+(0.0080)Orn+(0.0177)Ile+(0.0190)Phe;0.636,0.695,0.752,0.778,0.682,0.790,0.800,0.762,(0.7164)+(-0.0003)Gly+(-0.0064)Thr+(-0.0118)Ala+(0.0103)Pro+(-0.0141)Leu+(0.0417)Phe;0.636,0.701,0.659,0.652,0.636,0.756,0.654,0.674,(0.7164)+(0.0317)Ser+(-0.0084)Gly+(-0.0035)Gln+(0.0045)Pro+(-0.0181)Val+(0.0185)Orn;0.636,0.699,0.579,0.551,0.613,0.701,0.497,0.590,(-1.9393)+(0.0321)Ser+(-0.0031)Gln+(-0.0347)Arg+(-0.0027)Pro+(0.0020)Orn+(0.0297)Ile;0.636,0.689,0.633,0.679,0.574,0.614,0.650,0.629,(0.3529)+(-0.0028)Gly+(0.0004)Pro+(-0.0841)Tyr+(0.0081)Orn+(0.0221)Ile+(0.0344)Phe;0.636,0.705,0.629,0.605,0.638,0.707,0.619,0.642,(-2.3353)+(0.0362)Ser+(-0.0064)Gly+(-0.0368)Arg+(-0.0010)Orn+(0.0206)Ile+(0.0009)Phe;0.636,0.698,0.729,0.742,0.747,0.766,0.633,0.722,(3.5216)+(-0.0965)Asn+(0.0007)Gly+(0.0077)Thr+(-0.0145)Arg+(0.0245)Orn+(-0.0117)Lys;0.636,0.697,0.803,0.840,0.756,0.846,0.774,0.804,(2.1224)+(-0.0016)Gly+(0.0036)Gln+(-0.0074)Ala+(-0.0158)Arg+(-0.0097)Lys+(0.0006)Leu;0.636,0.696,0.685,0.730,0.663,0.739,0.574,0.677,(2.3398)+(0.0010)Gln+(0.0049)Pro+(-0.0510)Tyr+(0.0266)Orn+(-0.0153)Lys+(-0.0060)Leu;0.636,0.700,0.739,0.759,0.677,0.786,0.779,0.750,(0.3977)+(-0.0016)Gly+(-0.0123)Ala+(0.0090)Pro+(0.0133)Orn+(-0.0165)Leu+(0.0370)Phe;0.636,0.702,0.70

1,0.719,0.687,0.744,0.655,0.701,(1.0512)+(-0.0007)Gln+(0.0024)Pro+(-0.0173)Val+(0.0274)Orn+(-0.0169)Lys+(0.0442)Phe;0.636,0.690,0.632,0.677,0.574,0.615,0.648,0.628,(0.4053)+(-0.0027)Gly+(-0.0002)Gln+(-0.0836)Tyr+(0.0084)Orn+(0.0226)Ile+(0.0345)Phe;0.636,0.700,0.724,0.746,0.692,0.759,0.709,0.726,(1.8899)+(-0.0183)Arg+(0.0043)Pro+(-0.0301)Val+(-0.0111)Lys+(0.0298)Leu+(0.0413)Phe;0.636,0.700,0.772,0.806,0.738,0.831,0.713,0.772,(1.7934)+(0.0017)Gln+(-0.0021)Thr+(-0.0083)Ala+(-0.0239)Arg+(0.0265)Orn+(-0.0079)Leu;0.635,0.692,0.745,0.767,0.761,0.785,0.627,0.735,(4.0382)+(-0.0970)Asn+(0.0078)Thr+(-0.0157)Arg+(0.0282)Orn+(-0.0073)Lys+(-0.0113)Leu;0.635,0.701,0.704,0.701,0.705,0.700,0.711,0.704,(1.2755)+(-0.1383)Asn+(0.0026)Gly+(0.0006)Thr+(0.0071)Orn+(0.0149)Ile+(0.0186)Phe;0.635,0.696,0.738,0.744,0.673,0.802,0.808,0.757,(1.2324)+(-0.0007)Gly+(0.0002)Gln+(-0.0095)Thr+(-0.0122)Ala+(0.0095)Pro+(0.0166)Orn;0.635,0.693,0.706,0.703,0.705,0.784,0.659,0.713,(3.3369)+(0.0067)Thr+(-0.0632)Cit+(0.0038)Pro+(-0.0269)Val+(-0.0158)Lys+(0.0367)Leu;0.635,0.697,0.681,0.724,0.664,0.732,0.568,0.672,(2.6802)+(0.0000)Thr+(0.0051)Pro+(-0.0506)Tyr+(0.0278)Orn+(-0.0146)Lys+(-0.0062)Leu;0.635,0.696,0.726,0.730,0.735,0.757,0.676,0.724,(3.2585)+(-0.1042)Asn+(0.0006)Gly+(0.0049)Thr+(0.0011)Pro+(0.0226)Orn+(-0.0137)Lys;0.635,0.698,0.699,0.753,0.661,0.712,0.625,0.688,(2.6100)+(-0.0039)Gly+(-0.0029)Thr+(0.0061)Pro+(-0.0600)Tyr+(0.0258)Orn+(-0.0144)Leu;0.635,0.696,0.752,0.779,0.681,0.791,0.798,0.762,(0.5962)+(0.0002)Gln+(-0.0068)Thr+(-0.0118)Ala+(0.0103)Pro+(-0.0141)Leu+(0.0416)Phe;0.635,0.704,0.590,0.541,0.640,0.708,0.527,0.604,(-2.4438)+(0.0212)Ser+(-0.1151)Cit+(-0.0064)Pro+(0.0225)Orn+(0.0251)Ile+(0.0016)Phe;0.635,0.700,0.723,0.723,0.733,0.734,0.692,0.721,(2.4522)+(-0.1112)Asn+(0.0055)Thr+(-0.0188)Arg+(-0.0021)Pro+(0.0128)Orn+(0.0208)Ile;0.635,0.697,0.781,0.812,0.758,0.780,0.745,0.774,(2.4889)+(-0.1196)Asn+(-0.0001)Gly+(0.0052)Gln+(0.00

35)Pro+(-0.0074)Lys+(-0.0098)Leu;0.635,0.707,0.646,0.640,0.643,0.769,0.577,0.657,(-0.9110)+(0.0325)Ser+(-0.0160)Thr+(0.0036)Pro+(0.0211)Orn+(-0.0201)Lys+(-0.0037)Leu;0.635,0.697,0.686,0.757,0.650,0.657,0.594,0.664,(0.6684)+(-0.0030)Gly+(0.0024)Gln+(0.0093)Thr+(-0.0284)Arg+(-0.0803)Tyr+(0.0572)Phe;0.635,0

.695,0.735,0.768,0.734,0.812,0.595,0.727,(2.3686)+(0.0014)Gln+(0.0008)Thr+(-0.0232)Arg+(-0.0140)Val+(0.0330)Orn+(-0.0099)Lys;0.635,0.695,0.702,0.703,0.704,0.766,0.646,0.705,(1.7828)+(0.0024)Gly+(-0.0696)Cit+(-0.0238)Val+(-0.0160)Lys+(0.0275)Leu+(0.0509)Phe;0.635,0.694,0.707,0.688,0.683,0.756,0.769,0.724,(0.7973)+(-0.0004)Gly+(0.0016)Gln+(-0.0030)Thr+(-0.0044)Pro+(-0.0264)Lys+(0.0425)Ile;0.635,0.687,0.641,0.689,0.577,0.615,0.664,0.636,(0.3295)+(-0.0024)Gly+(0.0002)Gln+(-0.0008)Thr+(-0.0821)Tyr+(0.0252)Ile+(0.0357)Phe;0.635,0.694,0.771,0.804,0.753,0.765,0.727,0.762,(2.3521)+(-0.1395)Asn+(-0.0001)Gly+(0.0047)Gln+(0.0040)Thr+(0.0031)Pro+(-0.0142)Leu;0.635,0.689,0.607,0.652,0.555,0.606,0.599,0.603,(0.1327)+(-0.0009)Gln+(0.0003)Pro+(-0.0822)Tyr+(0.0068)Orn+(0.0239)Ile+(0.0351)Phe;0.635,0.696,0.730,0.738,0.748,0.763,0.649,0.725,(3.5711)+(-0.0955)Asn+(0.0076)Thr+(-0.0143)Arg+(0.0011)Pro+(0.0241)Orn+(-0.0121)Lys;0.635,0.689,0.625,0.670,0.568,0.620,0.630,0.622,(-0.0424)+(-0.0044)Thr+(0.0004)Pro+(-0.0797)Tyr+(0.0077)Orn+(0.0237)Ile+(0.0338)Phe;0.635,0.703,0.749,0.802,0.714,0.816,0.632,0.741,(3.5292)+(0.0122)Thr+(-0.0062)Ala+(-0.0158)Arg+(-0.0331)Tyr+(-0.0084)Lys+(0.0038)Leu;0.635,0.699,0.783,0.814,0.766,0.785,0.736,0.775,(2.6080)+(-0.1278)Asn+(-0.0006)Gly+(0.0052)Gln+(0.0076)Thr+(-0.0088)Lys+(-0.0079)Leu;0.634,0.701,0.712,0.746,0.705,0.753,0.611,0.704,(1.0519)+(-0.0018)Thr+(-0.0286)Arg+(0.0031)Pro+(-0.0215)Val+(0.0284)Orn+(0.0424)Phe;0.634,0.695,0.714,0.723,0.718,0.698,0.695,0.709,(1.5183)+(-0.1400)Asn+(0.0021)Gly+(0.0019)Thr+(-0.0006)Pro+(0.0114)Orn+(0.0275)Phe;0.634,0.6

98,0.713,0.725,0.669,0.756,0.739,0.722,(1.3960)+(0.0002)Gln+(0.0030)Pro+(-0.0299)Val+(-0.0166)Lys+(0.0319)Leu+(0.0359)Phe;0.634,0.697,0.689,0.662,0.680,0.746,0.740,0.707,(1.1699)+(-0.0003)Gly+(-0.0039)Thr+(-0.0045)Pro+(0.0167)Orn+(-0.0269)Lys+(0.0390)Ile;0.634,0.694,0.777,0.809,0.743,0.830,0.725,0.777,(1.9570)+(-0.0018)Gly+(0.0020)Gln+(-0.0083)Ala+(-0.0244)Arg+(0.0260)Orn+(-0.0086)Leu;0.634,0.692,0.727,0.732,0.716,0.791,0.688,0.732,(2.5742)+(0.0026)Gln+(-0.0663)Cit+(0.0038)Pro+(-0.0247)Val+(-0.0151)Lys+(0.0330)Leu;0.634,0.694,0.794,0.832,0.749,0.843,0.750,0.794,(2.2320)+(-0.0020)Gly+(0.0032)Gln+(0.0059)Thr+(-0.0076)Ala+(-0.0177)Arg+(-0.0109)Lys;0.634,0.699,0.663,0.677,0.646,0.780,0.581,0.671,(0.4802)+(0.0319)Ser+(-0.0015)Gln+(-0.0103)Thr+(0.0071)Pro+(-0.0101)Val+(-0.0134)Lys;0.634,0.700,0.569,0.538,0.604,0.687,0.491,0.580,(-2.1641)+(0.0330)Ser+(-0.0033)Gln+(-0.0356)Arg+(0.0005)Orn+(0.0249)Ile+(0.0068)Phe;0.634,0.696,0.806,0.869,0.750,0.847,0.728,0.799,(2.8972)+(-0.0029)Gly+(0.0043)Gln+(-0.0049)Ala+(-0.0182)Arg+(-0.0294)Tyr+(-0.0070)Val;0.634,0.698,0.738,0.744,0.720,0.735,0.758,0.739,(0.8756)+(-0.1483)Asn+(0.0015)Gly+(0.0041)Gln+(0.0012)Thr+(-0.0027)Pro+(0.0233)Ile;0.634,0.702,0.729,0.738,0.749,0.715,0.675,0.719,(2.1648)+(-0.1218)Asn+(0.0065)Thr+(-0.0194)Arg+(-0.0007)Pro+(0.0148)Orn+(0.0278)Phe;0.634,0.702,0.750,0.762,0.741,0.719,0.758,0.745,(0.7377)+(-0.1559)Asn+(0.0041)Gln+(0.0017)Thr+(-0.0013)Pro+(0.0082)Orn+(0.0248)Phe;0.634,0.700,0.746,0.748,0.731,0.741,0.772,0.748,(0.9837)+(-0.1465)Asn+(0.0041)Gln+(0.0008)Thr+(-0.0029)Pro+(0.0060)Orn+(0.0204)Ile;0.634,0.690,0.725,0.747,0.723,0.787,0.627,0.721,(3.0724)+(-0.0019)Gly+(-0.0216)Arg+(0.0045)Pro+(-0.0157)Val+(0.0340)Orn+(-0.0090)Lys;0.634,0.701,0.672,0.702,0.671,0.771,0.526,0.668,(-0.3805)+(0.0324)Ser+(-0.0008)Gln+(-0.0133)Thr+(-0.0251)Arg+(0.0058)Pro+(-0.0127)Leu;0.634,0.688,0.637,0.685,0.574,0.611,0.660,0.633,(0.3960)+(-0.0023)Gly+(-0.0007)Thr+(0.00

06)Pro+(-0.0824)Tyr+(0.0247)Ile+(0.0358)Phe;0.634,0.697,0.707,0.706,0.706,0.698,0.719,0.707,(1.3152)+(-0.1378)Asn+(0.0027)Gly+(0.0023)Thr+(-0.0022)Pro+(0.0196)Ile+(0.0207)Phe;0.634,0.700,0.781,0.834,0.723,0.830,0.727,0.779,(2.8366)+(-0.0037)Gly+(0.0031)Gln+(0.0083)Thr+(-0.0062)Ala+(-0.0367)Tyr+(-0.0117)Lys;0.634,0.700,0.717,0.768,0.710,0.757,0.566,0.700,(3.4910)+(-0.0035)Gly+(0.0056)Thr+(-0.0246)Arg+(-0.0529)Tyr+(0.0312)Orn+(-0.0118)Leu;0.634,0.696,0.768,0.825,0.708,0.792,0.723,0.762,(2.8818)+(-0.0030)Gly+(0.0034)Gln+(-0.0190)Arg+(-0.0390)Tyr+(-0.0256)Val+(0.0313)Leu;0.634,0.688,0.636,0.685,0.573,0.610,0.659,0.632,(0.3462)+(-0.0025)Gly+(0.0001)Gln+(0.0006)Pro+(-0.0832)Tyr+(0.0244)Ile+(0.0358)Phe;0.634,0.701,0.674,0.650,0.734,0.742,0.567,0.673,(0.4406)+(0.0024)Gly+(-0.0097)Thr+(-0.1009)Cit+(-0.0130)Arg+(0.0376)Orn+(0.0118)Phe;0.634,0.689,0.667,0.725,0.650,0.709,0.516,0.650,(1.7882)+(0.0014)Gln+(0.0016)Thr+(-0.0268)Arg+(0.0041)Pro+(-0.0605)Tyr+(0.0209)Orn;0.634,0.692,0.741,0.766,0.757,0.769,0.622,0.728,(3.8570)+(-0.1055)Asn+(0.0056)Thr+(-0.0183)Arg+(0.0033)Pro+(0.0257)Orn+(-0.0169)Leu;0.634,0.686,0.653,0.691,0.590,0.653,0.681,0.654,(1.0995)+(-0.0024)Gly+(0.0006)Gln+(-0.0017)Thr+(0.0006)Pro+(-0.0704)Tyr+(0.0322)Ile;0.634,0.700,0.700,0.758,0.656,0.714,0.626,0.689,(2.3267)+(-0.0047)Gly+(0.0008)Gln+(0.0058)Pro+(-0.0629)Tyr+(0.0235)Orn+(-0.0146)Leu;0.634,0.699,0.787,0.847,0.716,0.836,0.737,0.784,(2.8125)+(-0.0038)Gly+(0.0024)Gln+(0.0051)Thr+(-0.0056)Ala+(-0.0363)Tyr+(-0.0075)Val;0.634,0.699,0.679,0.662,0.746,0.745,0.536,0.672,(0.7670)+(0.0009)Gly+(0.0004)Gln+(-0.0992)Cit+(-0.0172)Arg+(-0.0024)Pro+(0.0362)Orn;0.634,0.708,0.632,0.626,0.650,0.747,0.525,0.637,(-1.2892)+(0.0351)Ser+(-0.0020)Gln+(-0.0177)Thr+(-0.0256)Arg+(0.0026)Pro+(0.0152)Orn;0.633,0.702,0.725,0.727,0.734,0.713,0.712,0.722,(2.0570)+(-0.1190)Asn+(0.0079)Thr+(-0.0187)Arg+(-0.0021)Pro+(0.0189)Ile+(0.0215)Phe;0.633,0.700,0.708,0.719,0.668,0.758,0.

727,0.718,(1.4013)+(0.0032)Thr+(0.0027)Pro+(-0.0306)Val+(-0.0178)Lys+(0.0332)Leu+(0.0360)Phe;0.633,0.698,0.720,0.741,0.735,0.708,0.644,0.707,(1.8843)+(-0.1280)Asn+(0.0027)Gly+(0.0080)Thr+(-0.0189)Arg+(0.0003)Pro+(0.0355)Phe;0.633,0.708,0.638,0.639,0.641,0.734,0.561,0.644,(-2.7472)+(0.0348)Ser+(-0.0195)Thr+(-0.0289)Arg+(0.0013)Pro+(0.0106)Orn+(0.0214)Phe;0.633,0.693,0.742,0.764,0.739,0.773,0.667,0.736,(1.0507)+(0.0032)Gln+(-0.0683)Cit+(-0.0087)Arg+(-0.0117)Val+(-0.0134)Lys+(0.0549)Phe;0.633,0.697,0.762,0.829,0.729,0.787,0.634,0.745,(3.1284)+(-0.0044)Gly+(0.0037)Gln+(0.0105)Thr+(-0.0249)Arg+(-0.0449)Tyr+(-0.0106)Val;0.633,0.701,0.760,0.813,0.724,0.816,0.652,0.751,(4.0249)+(-0.0024)Gly+(0.0138)Thr+(-0.0058)Ala+(-0.0159)Arg+(-0.0348)Tyr+(-0.0072)Lys;0.633,0.698,0.730,0.773,0.699,0.761,0.660,0.723,(2.6963)+(-0.0042)Gly+(0.0023)Gln+(-0.0500)Tyr+(0.0303)Orn+(-0.0154)Lys+(-0.0045)Leu;0.633,0.697,0.760,0.783,0.762,0.763,0.692,0.750,(1.6512)+(-0.1270)Asn+(0.0007)Gly+(0.0050)Gln+(-0.0204)Arg+(0.0003)Pro+(0.0159)Orn;0.633,0.693,0.703,0.702,0.699,0.716,0.706,0.706,(1.7828)+(-0.1294)Asn+(0.0022)Gly+(0.0009)Thr+(-0.0022)Pro+(0.0092)Orn+(0.0220)Ile;0.633,0.702,0.693,0.669,0.747,0.750,0.606,0.693,(0.8780)+(-0.0078)Thr+(-0.0989)Cit+(-0.0128)Arg+(-0.0023)Pro+(0.0393)Orn+(0.0112)Phe;0.633,0.701,0.743,0.772,0.713,0.819,0.673,0.744,(2.4238)+(0.0017)Gln+(0.0082)Thr+(-0.0198)Arg+(-0.0305)Val+(-0.0130)Lys+(0.0391)Leu;0.633,0.684,0.672,0.666,0.721,0.725,0.549,0.665,(0.1054)+(0.0005)Gly+(-0.1107)Cit+(-0.0009)Pro+(0.0400)Orn+(-0.0233)Leu+(0.0355)Phe;0.633,0.696,0.708,0.716,0.711,0.728,0.664,0.705,(2.2048)+(-0.1146)Asn+(0.0027)Gly+(0.0064)Thr+(-0.0185)Arg+(-0.0017)Pro+(0.0266)Ile;0.633,0.686,0.651,0.686,0.595,0.657,0.672,0.653,(1.1211)+(-0.0026)Gly+(0.0002)Gln+(-0.0031)Thr+(-0.0708)Tyr+(0.0115)Orn+(0.0295)Ile;0.633,0.694,0.641,0.596,0.694,0.718,0.592,0.650,(0.1840)+(-0.0008)Gln+(-0.1122)Cit+(-0.0061)Pro+(0.0313)Orn+(0.0229)Ile+

(-0.0041)Phe;0.633,0.694,0.690,0.665,0.678,0.746,0.744,0.708,(0.8730)+(-0.0010)Gly+(0.0009)Gln+(-0.0051)Pro+(0.0145)Orn+(-0.0287)Lys+(0.0391)Ile;0.633,0.688,0.644,0.701,0.593,0.611,0.622,0.632,(0.5771)+(-0.0033)Gly+(-0.0000)Gln+(0.0026)Pro+(-0.0843)Tyr+(0.0135)Orn+(0.0454)Phe;0.633,0.694,0.753,0.777,0.756,0.758,0.675,0.742,(1.6968)+(-0.1327)Asn+(0.0006)Gly+(0.0049)Gln+(0.0044)Thr+(-0.0215)Arg+(0.0143)Orn;0.633,0.694,0.782,0.828,0.771,0.776,0.684,0.765,(2.6035)+(-0.1280)Asn+(-0.0004)Gly+(0.0058)Gln+(0.0089)Thr+(-0.0196)Arg+(-0.0119)Leu;0.633,0.699,0.803,0.858,0.739,0.849,0.755,0.800,(2.8823)+(-0.0031)Gly+(0.0035)Gln+(-0.0052)Ala+(-0.0292)Tyr+(-0.0053)Val+(-0.0072)Lys;0.633,0.690,0.761,0.793,0.712,0.829,0.731,0.766,(2.6694)+(-0.0004)Gly+(0.0014)Thr+(-0.0105)Ala+(-0.0191)Arg+(0.0112)Pro+(-0.0072)Leu;0.632,0.700,0.721,0.730,0.680,0.771,0.746,0.732,(1.6029)+(-0.0012)Gly+(0.0050)Thr+(-0.0306)Val+(-0.0179)Lys+(0.0344)Leu+(0.0371)Phe;0.632,0.700,0.771,0.802,0.755,0.778,0.722,0.764,(2.5506)+(-0.1281)Asn+(0.0049)Gln+(0.0062)Thr+(0.0029)Pro+(-0.0085)Lys+(-0.0096)Leu;0.632,0.696,0.732,0.747,0.686,0.770,0.763,0.741,(1.4274)+(-0.0011)Gly+(0.0007)Gln+(-0.0293)Val+(-0.0165)Lys+(0.0325)Leu+(0.0368)Phe;0.632,0.702,0.666,0.674,0.622,0.714,0.704,0.678,(-1.5377)+(0.0283)Ser+(-0.0088)Gly+(0.0025)Pro+(-0.0212)Val+(0.0123)Orn+(0.0332)Phe;0.632,0.696,0.718,0.758,0.689,0.751,0.648,0.711,(2.6610)+(-0.0043)Gly+(0.0021)Gln+(0.0035)Thr+(-0.0532)Tyr+(0.0283)Orn+(-0.0176)Lys;0.632,0.695,0.783,0.825,0.769,0.775,0.708,0.769,(2.4746)+(-0.1171)Asn+(0.0002)Gly+(0.0058)Gln+(-0.0175)Arg+(0.0040)Pro+(-0.0133)Leu;0.632,0.689,0.643,0.678,0.587,0.652,0.658,0.644,(1.1580)+(-0.0029)Gly+(0.0000)Gln+(0.0003)Pro+(-0.0732)Tyr+(0.0103)Orn+(0.0291)Ile;0.632,0.691,0.699,0.711,0.710,0.753,0.608,0.696,(1.5214)+(0.0025)Gly+(-0.0744)Cit+(0.0036)Pro+(-0.0123)Val+(-0.0145)Lys+(0.0569)Phe;0.632,0.689,0.735,0.743,0.725,0.801,0.687,0.739,(2.5224)+(0.0003)Gly+

(0.0029)Gln+(-0.0671)Cit+(-0.0237)Val+(-0.0151)Lys+(0.0342)Leu;0.632,0.692,0.715,0.740,0.716,0.795,0.593,0.711,(2.7657)+(0.0005)Thr+(-0.0224)Arg+(0.0045)Pro+(-0.0155)Val+(0.0327)Orn+(-0.0092)Lys;0.632,0.689,0.766,0.799,0.692,0.826,0.790,0.777,(2.3424)+(-0.0016)Gly+(0.0010)Gln+(-0.0029)Thr+(-0.0098)Ala+(0.0120)Pro+(-0.0113)Val;0.632,0.698,0.760,0.817,0.718,0.805,0.662,0.750,(3.6390)+(-0.0023)Gly+(0.0115)Thr+(-0.0063)Ala+(-0.0192)Arg+(-0.0379)Tyr+(-0.0005)Leu;0.632,0.697,0.742,0.793,0.680,0.810,0.687,0.742,(2.0381)+(0.0007)Gln+(-0.0025)Thr+(-0.0071)Ala+(-0.0389)Tyr+(0.0253)Orn+(-0.0044)Leu;0.632,0.691,0.674,0.723,0.659,0.704,0.554,0.660,(2.7280)+(-0.0029)Gly+(0.0047)Thr+(-0.0249)Arg+(0.0042)Pro+(-0.0637)Tyr+(0.0233)Orn;0.632,0.692,0.707,0.704,0.703,0.756,0.689,0.713,(2.1776)+(-0.0650)Cit+(0.0034)Pro+(-0.0250)Val+(-0.0156)Lys+(0.0272)Leu+(0.0461)Phe;0.632,0.689,0.649,0.706,0.598,0.612,0.630,0.637,(0.5922)+(-0.0031)G

ly+(-0.0019)Thr+(0.0027)Pro+(-0.0829)Tyr+(0.0143)Orn+(0.0451)Phe;0.632,0.694,0.723,0.741,0.727,0.772,0.635,0.719,(0.8717)+(0.0017)Gly+(0.0025)Gln+(-0.0781)Cit+(-0.0109)Val+(-0.0159)Lys+(0.0563)Phe;0.632,0.705,0.774,0.838,0.715,0.855,0.671,0.770,(2.6894)+(0.0023)Gln+(0.0061)Thr+(-0.0055)Ala+(-0.0292)Tyr+(-0.0052)Val+(-0.0090)Lys;0.632,0.696,0.751,0.763,0.689,0.805,0.812,0.767,(0.2654)+(-0.0006)Gly+(0.0000)Gln+(-0.0079)Thr+(-0.0109)Ala+(0.0165)Orn+(0.0289)Phe;0.632,0.702,0.775,0.828,0.724,0.837,0.692,0.770,(3.9573)+(-0.0029)Gly+(0.0104)Thr+(-0.0052)Ala+(-0.0314)Tyr+(-0.0056)Val+(-0.0076)Lys;0.632,0.693,0.731,0.754,0.701,0.765,0.711,0.733,(1.8731)+(0.0000)Gly+(-0.0168)Arg+(-0.0291)Val+(-0.0110)Lys+(0.0306)Leu+(0.0438)Phe;0.632,0.693,0.719,0.722,0.713,0.758,0.692,0.721,(2.2635)+(-0.0603)Cit+(-0.0047)Arg+(-0.0245)Val+(-0.0138)Lys+(0.0275)Leu+(0.0494)Phe;0.632,0.689,0.709,0.710,0.709,0.793,0.646,0.715,(3.3339)+(0.0006)Gly+(0.0079)Thr+(-0.0641)Cit+(-0.0261)Va

l+(-0.0160)Lys+(0.0383)Leu;0.632,0.684,0.666,0.656,0.719,0.723,0.540,0.660,(0.3947)+(0.0009)Gly+(-0.0010)Gln+(-0.1100)Cit+(0.0409)Orn+(-0.0236)Leu+(0.0361)Phe;0.631,0.687,0.624,0.670,0.566,0.613,0.628,0.619,(0.1087)+(-0.0003)Gln+(-0.0025)Thr+(0.0005)Pro+(-0.0800)Tyr+(0.0259)Ile+(0.0357)Phe;0.631,0.692,0.814,0.864,0.760,0.860,0.761,0.811,(2.5544)+(-0.0019)Gly+(0.0037)Gln+(-0.0060)Ala+(-0.0170)Arg+(-0.0074)Val+(-0.0055)Lys;0.631,0.696,0.727,0.730,0.717,0.776,0.702,0.731,(1.3693)+(0.0025)Gln+(-0.0703)Cit+(-0.0232)Val+(-0.0173)Lys+(0.0265)Leu+(0.0462)Phe;0.631,0.689,0.619,0.574,0.680,0.710,0.545,0.627,(-0.1009)+(0.0019)Gly+(-0.0013)Gln+(-0.1147)Cit+(-0.0061)Pro+(0.0309)Orn+(0.0234)Ile;0.631,0.696,0.687,0.658,0.679,0.741,0.743,0.705,(0.8837)+(-0.0041)Thr+(-0.0046)Pro+(0.0160)Orn+(-0.0275)Lys+(0.0375)Ile+(0.0085)Phe;0.631,0.702,0.721,0.741,0.697,0.797,0.665,0.725,(2.9363)+(0.0080)Thr+(-0.0190)Arg+(0.0046)Pro+(-0.0319)Val+(-0.0119)Lys+(0.0387)Leu;0.631,0.693,0.744,0.760,0.685,0.811,0.778,0.759,(1.7901)+(-0.0011)Gly+(-0.0087)Thr+(-0.0112)Ala+(0.0104)Pro+(0.0209)Orn+(-0.0104)Leu;0.631,0.693,0.665,0.644,0.734,0.731,0.527,0.659,(0.3638)+(0.0015)Gly+(-0.0998)Cit+(-0.0174)Arg+(-0.0030)Pro+(0.0353)Orn+(0.0122)Phe;0.631,0.689,0.715,0.718,0.712,0.773,0.673,0.719,(3.5255)+(-0.0565)Cit+(-0.0046)Arg+(0.0049)Pro+(-0.0262)Val+(-0.0115)Lys+(0.0342)Leu;0.631,0.697,0.705,0.700,0.710,0.767,0.664,0.710,(2.0708)+(0.0079)Thr+(-0.0675)Cit+(-0.0256)Val+(-0.0186)Lys+(0.0302)Leu+(0.0476)Phe;0.631,0.694,0.756,0.779,0.759,0.759,0.686,0.746,(1.7353)+(-0.1323)Asn+(0.0050)Gln+(0.0046)Thr+(-0.0215)Arg+(-0.0001)Pro+(0.0143)Orn;0.631,0.692,0.713,0.731,0.725,0.760,0.605,0.705,(1.6293)+(0.0025)Gly+(-0.0689)Cit+(-0.0058)Arg+(-0.0117)Val+(-0.0123)Lys+(0.0605)Phe;0.631,0.698,0.754,0.778,0.700,0.796,0.774,0.762,(0.4013)+(-0.0014)Gly+(-0.0005)Gln+(-0.0101)Ala+(0.0175)Orn+(-0.0145)Leu+(0.0417)Phe;0.631,0.700,0.714,0.726,0.674,0.769,0.728,0.724,(1

.3669)+(0.0001)Gln+(0.0042)Thr+(-0.0304)Val+(-0.0180)Lys+(0.0342)Leu+(0.0377)Phe;0.631,0.688,0.648,0.683,0.592,0.654,0.667,0.649,(1.1922)+(-0.0025)Gly+(-0.0030)Thr+(0.0005)Pro+(-0.0709)Tyr+(0.0116)Orn+(0.0291)Ile;0.631,0.691,0.565,0.514,0.612,0.673,0.525,0.581,(-1.7107)+(0.0285)Ser+(-0.0034)Gln+(-0.0935)Cit+(-0.0044)Pro+(0.0302)Ile+(0.0082)Phe;0.631,0.696,0.702,0.681,0.677,0.753,0.769,0.720,(0.5255)+(0.0014)Gln+(-0.0032)Thr+(-0.0045)Pro+(-0.0270)Lys+(0.0407)Ile+(0.0095)Phe;0.631,0.686,0.719,0.726,0.716,0.789,0.659,0.723,(3.4418)+(0.0012)Gly+(-0.0601)Cit+(-0.0024)Arg+(-0.0248)Val+(-0.0120)Lys+(0.0360)Leu;0.631,0.683,0.715,0.737,0.729,0.738,0.614,0.704,(1.3948)+(-0.0009)Gly+(-0.0225)Arg+(0.0267)Orn+(-0.0150)Lys+(-0.0172)Leu+(0.0401)Phe;0.631,0.683,0.716,0.742,0.730,0.741,0.601,0.703,(0.8043)+(0.0014)Gln+(-0.0242)Arg+(0.0247)Orn+(-0.0156)Lys+(-0.0170)Leu+(0.0394)Phe;0.631,0.697,0.787,0.827,0.744,0.849,0.730,0.787,(2.0327)+(0.0029)Gln+(0.0051)Thr+(-0.0076)Ala+(-0.0177)Arg+(-0.0108)Lys+(0.0010)Leu;0.631,0.689,0.727,0.781,0.694,0.754,0.632,0.715,(4.0988)+(-0.0018)Gly+(-0.0156)Arg+(0.0092)Pro+(-0.0410)Tyr+(-0.0115)Val+(-0.0017)Lys;0.631,0.697,0.710,0.749,0.690,0.747,0.618,0.701,(3.3300)+(-0.0038)Gly+(0.0043)Thr+(-0.0506)Tyr+(0.0311)Orn+(-0.0152)Lys+(-0.0040)Leu;0.630,0.687,0.676,0.665,0.727,0.725,0.561,0.669,(0.4969)+(-0.0007)Gln+(-0.1092)Cit+(-0.0008)Pro+(0.0414)Orn+(-0.0233)Leu+(0.0356)Phe;0.630,0.693,0.792,0.851,0.735,0.826,0.730,0.785,(2.4656)+(-0.0026)Gly+(0.0041)Gln+(-0.0061)Ala+(-0.0187)Arg+(-0.0344)Tyr+(-0.0014)Leu;0.630,0.693,0.725,0.730,0.719,0.804,0.667,0.730,(2.6216)+(0.0024)Gln+(0.0061)Thr+(-0.0676)Cit+(-0.0250)Val+(-0.0172)Lys+(0.0362)Leu;0.630,0.697,0.592,0.539,0.574,0.661,0.719,0.623,(-2.5880)+(0.0464)Ser+(-0.0057)Gly+(-0.0031)Gln+(-0.0249)Thr+(-0.0016)Pro+(0.0301)Ile;0.630,0.694,0.772,0.815,0.764,0.772,0.674,0.756,(2.5747)+(-0.1274)Asn+(0.0055)Gln+(0.0077)Thr+(-0.0198)Arg+(0.0034)Pro+(-0.0

138)Leu;0.630,0.695,0.745,0.773,0.763,0.777,0.611,0.731,(3.8253)+(-0.1061)Asn+(0.0006)Gly+(0.0064)Thr+(-0.0180)Arg+(0.0266)Orn+(-0.0149)Leu;0.630,0.696,0.794,0.849,0.747,0.864,0.696,0.789,(2.4818)+(0.0028)Gln+(0.0066)Thr+(-0.0062)Ala+(-0.0194)Arg+(-0.0076)Val+(-0.0068)Lys;0.630,0.691,0.694,0.748,0.667,0.719,0.594,0.682,(2.0778)+(-0.0033)Gly+(0.0023)Gln+(-0.0253)Arg+(0.0040)Pro+(-0.0627)Tyr+(0.0225)Orn;0.630,0.695,0.767,0.787,0.755,0.768,0.741,0.763,(2.2681)+(-0.1261)Asn+(-0.0002)Gly+(0.0049)Gln+(0.0066)Thr+(0.0013)Pro+(-0.0122)Lys;0.630,0.697,0.775,0.803,0.716,0.843,0.773,0.784,(2.1738)+(-0.0022)Gly+(0.0005)Gln+(-0.0043)Thr+(-0.0073)Ala+(-0.0120)Val+(0.0297)Orn;0.630,0.694,0.727,0.740,0.725,0.765,0.668,0.725,(1.1211)+(0.0025)Gln+(-0.0749)Cit+(0.0030)Pro+(-0.0120)Val+(-0.0157)Lys+(0.0522)Phe;0.630,0.699,0.790,0.840,0.724,0.830,0.768,0.790,(2.5512)+(-0.0028)Gly+(0.0035)Gln+(-0.0063)Ala+(-0.0327)Tyr+(-0.0109)Lys+(0.0039)Leu;0.630,0.698,0.688,0.658,0.680,0.735,0.751,0.706,(0.7964)+(-0.0006)Gly+(0.0009)Gln+(-0.0059)Thr+(0.0151)Orn+(-0.0269)Lys+(0.0328)Ile;0.630,0.700,0.696,0.675,0.746,0.746,0.611,0.695,(0.4777)+(0.0012)Gln+(-0.0094)Thr+(-0.0981)Cit+(-0.0141)Arg+(0.0367)Orn+(0.0079)Phe;0.630,0.695,0.710,0.772,0.665,0.756,0.604,0.699,(2.7273)+(0.0015)Gln+(0.0031)Thr+(0.0078)Pro+(-0.0445)Tyr+(-0.0103)Val+(-0.0094)Lys;0.630,0.688,0.735,0.789,0.700,0.746,0.655,0.722,(2.4745)+(-0.0029)Gly+(0.0040)Gln+(-0.0175)Arg+(0.0055)Pro+(-0.0501)Tyr+(-0.0102)Lys;0.629,0.684,0.713,0.734,0.729,0.740,0.600,0.701,(1.2424)+(-0.0006)Thr+(-0.0226)Arg+(0.0264)Orn+(-0.0149)Lys+(-0.0171)Leu+(0.0407)Phe;0.629,0.696,0.742,0.770,0.705,0.799,0.706,0.745,(2.3769)+(0.0019)Gln+(-0.0182)Arg+(0.0048)Pro+(-0.0297)Val+(-0.0105)Lys+(0.0350)Leu;0.629,0.692,0.714,0.718,0.715,0.794,0.641,0.717,(3.5079)+(0.0095)Thr+(-0.0578)Cit+(-0.0064)Arg+(-0.0267)Val+(-0.0146)Lys+(0.0383)Leu;0.629,0.687,0.630,0.690,0.583,0.611,0.583,0.617,(0.2813)+(-0.0006)Gln+

(-0.0039)Thr+(0.0028)Pro+(-0.0797)Tyr+(0.0136)Orn+(0.0461)Phe;0.629,0.694,0.722,0.789,0.705,0.769,0.548,0.703,(2.3779)+(0.0032)Gln+(0.0088)Thr+(-0.0213)Arg+(-0.0443)Tyr+(-0.0105)Lys+(-0.0023)Leu;0.629,0.692,0.721,0.784,0.694,0.751,0.589,0.704,(2.3662)+(0.0033)Gln+(-0.0194)Arg+(0.0066)Pro+(-0.0464)Tyr+(-0.0077)Lys+(-0.0069)Leu;0.629,0.693,0.750,0.766,0.741,0.742,0.729,0.745,(1.4507)+(-0.1461)Asn+(0.0006)Gly+(0.0040)Gln+(0.0010)Thr+(-0.0002)Pro+(0.0117)Orn;0.629,0.692,0.744,0.786,0.697,0.779,0.703,0.741,(3.9177)+(-0.0014)Gly+(-0.0110)Arg+(-0.0314)Tyr+(-0.0264)Val+(-0.0060)Lys+(0.0372)Leu;0.629,0.688,0.626,0.586,0.679,0.712,0.558,0.634,(-0.4052)+(0.0014)Gly+(-0.1151)Cit+(-0.0063)Pro+(0.0294)Orn+(0.0237)Ile+(-0.0036)Phe;0.629,0.683,0.608,0.577,0.644,0.669,0.568,0.615,(-1.2558)+(0.0322)Ser+(-0.0041)Gly+(-0.0025)Gln+(-0.0865)Cit+(-0.0010)Pro+(0.0195)Phe;0.629,0.690,0.741,0.754,0.730,0.801,0.683,0.742,(2.5418)+(0.0032)Gln+(-0.0620)Cit+(-0.0058)Arg+(-0.0239)Val+(-0.0135)Lys+(0.0335)Leu;0.629,0.698,0.791,0.845,0.746,0.841,0.706,0.784,(4.1176)+(-0.0012)Gly+(-0.0046)Ala+(-0.0120)Arg+(-0.0231)Tyr+(-0.0060)Val+(-0.0015)Lys;0.629,0.687,0.658,0.718,0.606,0.622,0.632,0.644,(0.5487)+(-0.0032)Gly+(0.0002)Gln+(-0.0015)Thr+(-0.0809)Tyr+(0.0152)Orn+(0.0469)Phe;0.629,0.691,0.668,0.643,0.717,0.732,0.585,0.669,(0.1788)+(0.0023)Gly+(-0.0127)Thr+(-0.1118)Cit+(-0.0023)Pro+(0.0391)Orn+(0.0124)Phe;0.629,0.690,0.704,0.716,0.719,0.761,0.596,0.698,(1.5271)+(0.0021)Gly+(0.0045)Thr+(-0.0756)Cit+(-0.0114)Val+(-0.0158)Lys+(0.0593)Phe;0.629,0.693,0.679,0.661,0.742,0.735,0.558,0.674,(0.4492)+(0.0006)Gln+(-0.0982)Cit+(-0.0176)Arg+(-0.0031)Pro+(0.0351)Orn+(0.0101)Phe;0.628,0.693,0.698,0.676,0.676,0.748,0.761,0.716,(0.5837)+(-0.0005)Gly+(0.0012)Gln+(-0.0048)Pro+(-0.0280)Lys+(0.0404)Ile+(0.0093)Phe;0.628,0.695,0.679,0.646,0.675,0.730,0.738,0.697,(0.8508)+(-0.0002)Gly+(-0.0054)Thr+(0.0153)Orn+(-0.0270)Lys+(0.0315)Ile+(0.0072)Phe;0.628,0.690,

0.736,0.778,0.711,0.757,0.660,0.727,(1.0767)+(0.0018)Gln+(-0.0219)Arg+(0.0042)Pro+(-0.0165)Val+(-0.0096)Lys+(0.0477)Phe;0.628,0.694,0.741,0.759,0.679,0.811,0.773,0.756,(1.5791)+(0.0002)Gln+(-0.0096)Thr+(-0.0112)Ala+(0.0105)Pro+(0.0205)Orn+(-0.0101)Leu;0.628,0.692,0.682,0.653,0.675,0.740,0.734,0.700,(0.8923)+(-0.0006)Gly+(-0.0050)Pro+(0.0148)Orn+(-0.0287)Lys+(0.0375)Ile+(0.0082)Phe;0.628,0.695,0.728,0.743,0.732,0.771,0.652,0.724,(1.0896)+(0.0025)Gln+(0.0035)Thr+(-0.0763)Cit+(-0.0112)Val+(-0.0167)Lys+(0.0545)Phe;0.628,0.684,0.726,0.759,0.724,0.742,0.634,0.715,(0.8202)+(0.0022)Gln+(0.0005)Thr+(-0.0595)Cit+(-0.0174)Arg+(-0.0159)Val+(0.0490)Phe;0.628,0.689,0.736,0.759,0.738,0.799,0.621,0.729,(3.1831)+(-0.0022)Gly+(0.0028)Thr+(-0.0217)Arg+(-0.0144)Val+(0.0352)Orn+(-0.0095)Lys;0.628,0.700,0.763,0.818,0.700,0.830,0.700,0.762,(2.3688)+(0.0023)Gln+(0.0062)Thr+(-0.0067)Ala+(-0.0336)Tyr+(-0.0129)Lys+(0.0052)Leu;0.628,0.691,0.720,0.735,0.734,0.760,0.621,0.713,(1.9843)+(0.0074)Thr+(-0.0644)Cit+(-0.0089)Arg+(-0.0126)Val+(-0.0137)Lys+(0.0582)Phe;0.628,0.690,0.736,0.795,0.712,0.758,0.613,0.720,(2.7442)+(-0.0039)Gly+(0.0039)Gln+(0.0112)Thr+(-0.0209)Arg+(-0.0500)Tyr+(-0.0117)Lys;0.628,0.687,0.731,0.751,0.699,0.785,0.709,0.736,(3.1163)+(-0.0007)Gly+(-0.0156)Arg+(0.0053)Pro+(-0.0304)Val+(-0.0094)Lys+(0.0361)Leu;0.628,0.688,0.720,0.757,0.708,0.788,0.598,0.713,(2.0915)+(0.0007)Gln+(-0.0031)Thr+(-0.0267)Arg+(0.0045)Pro+(-0.0180)Val+(0.0301)Orn;0.628,0.689,0.605,0.561,0.634,0.685,0.602,0.621,(-2.1815)+(0.0285)Ser+(-0.0041)Gly+(-0.0938)Cit+(-0.005

0)Pro+(0.0272)Ile+(0.0024)Phe;0.628,0.698,0.683,0.652,0.677,0.735,0.742,0.701,(0.5821)+(0.0007)Gln+(-0.0061)Thr+(0.0145)Orn+(-0.0273)Lys+(0.0318)Ile+(0.0068)Phe;0.628,0.685,0.707,0.728,0.724,0.738,0.594,0.696,(1.2238)+(-0.0231)Arg+(0.0014)Pro+(0.0255)Orn+(-0.0150)Lys+(-0.0178)Leu+(0.0400)Phe;0.628,0.684,0.720,0.753,0.722,0.741,0.616,0.708,(0.7

035)+(0.0010)Gly+(0.0020)Gln+(-0.0609)Cit+(-0.0171)Arg+(-0.0158)Val+(0.0502)Phe;0.628,0.689,0.734,0.750,0.685,0.781,0.758,0.744,(2.4140)+(-0.0018)Gly+(0.0011)Gln+(0.0039)Pro+(-0.0302)Val+(-0.0150)Lys+(0.0372)Leu;0.627,0.689,0.689,0.666,0.672,0.741,0.749,0.707,(0.9291)+(0.0002)Gly+(-0.0021)Thr+(-0.0043)Pro+(-0.0264)Lys+(0.0405)Ile+(0.0107)Phe;0.627,0.691,0.699,0.746,0.679,0.753,0.576,0.688,(2.2781)+(0.0012)Gln+(0.0005)Thr+(-0.0468)Tyr+(0.0281)Orn+(-0.0160)Lys+(-0.0032)Leu;0.627,0.698,0.721,0.714,0.721,0.708,0.751,0.724,(1.6591)+(-0.1325)Asn+(0.0022)Thr+(-0.0024)Pro+(0.0087)Orn+(0.0160)Ile+(0.0167)Phe;0.627,0.698,0.779,0.824,0.733,0.825,0.724,0.777,(3.7166)+(-0.0009)Gly+(-0.0059)Ala+(-0.0104)Arg+(-0.0269)Tyr+(-0.0057)Lys+(0.0031)Leu;0.627,0.682,0.631,0.666,0.580,0.651,0.632,0.632,(0.8626)+(-0.0003)Gln+(-0.0048)Thr+(0.0004)Pro+(-0.0683)Tyr+(0.0106)Orn+(0.0308)Ile;0.627,0.697,0.582,0.522,0.568,0.656,0.716,0.615,(-2.6347)+(0.0465)Ser+(-0.0057)Gly+(-0.0033)Gln+(-0.0263)Thr+(0.0063)Orn+(0.0264)Ile;0.627,0.696,0.683,0.656,0.672,0.742,0.731,0.700,(0.5886)+(0.0006)Gln+(-0.0052)Pro+(0.0136)Orn+(-0.0292)Lys+(0.0381)Ile+(0.0081)Phe;0.627,0.700,0.642,0.644,0.626,0.772,0.580,0.655,(0.1541)+(0.0297)Ser+(-0.0033)Gln+(-0.0188)Thr+(0.0062)Pro+(-0.0156)Val+(0.0239)Orn;0.627,0.681,0.716,0.746,0.713,0.731,0.630,0.705,(0.9158)+(0.0019)Gln+(-0.0584)Cit+(-0.0179)Arg+(0.0037)Pro+(-0.0170)Val+(0.0464)Phe;0.627,0.704,0.612,0.600,0.635,0.749,0.495,0.620,(-0.0964)+(0.0303)Ser+(-0.0026)Gln+(0.0024)Pro+(0.0181)Orn+(-0.0238)Lys+(-0.0028)Leu;0.627,0.689,0.655,0.721,0.596,0.604,0.642,0.641,(0.5042)+(-0.0030)Gly+(0.0006)Gln+(0.0001)Thr+(0.0033)Pro+(-0.0829)Tyr+(0.0490)Phe;0.626,0.690,0.769,0.799,0.726,0.815,0.750,0.772,(2.4489)+(-0.0017)Gly+(0.0027)Gln+(-0.0169)Arg+(-0.0286)Val+(-0.0107)Lys+(0.0360)Leu;0.626,0.688,0.732,0.766,0.717,0.787,0.631,0.725,(2.3002)+(-0.0024)Gly+(0.0011)Gln+(-0.0276)Arg+(0.0042)Pro+(-0.0186)Val+(0.0298)Orn;0.

626,0.688,0.719,0.733,0.724,0.746,0.650,0.713,(2.0633)+(-0.0626)Cit+(-0.0073)Arg+(0.0041)Pro+(-0.0134)Val+(-0.0116)Lys+(0.0550)Phe;0.626,0.691,0.738,0.784,0.723,0.764,0.633,0.726,(1.0208)+(0.0018)Gln+(0.0058)Thr+(-0.0233)Arg+(-0.0158)Val+(-0.0110)Lys+(0.0513)Phe;0.626,0.690,0.662,0.633,0.712,0.729,0.583,0.664,(0.1501)+(0.0024)Gly+(-0.0000)Gln+(-0.0135)Thr+(-0.1109)Cit+(0.0377)Orn+(0.0098)Phe;0.626,0.691,0.687,0.660,0.730,0.736,0.631,0.689,(0.3895)+(0.0005)Gln+(-0.0119)Thr+(-0.1093)Cit+(-0.0025)Pro+(0.0390)Orn+(0.0093)Phe;0.626,0.701,0.597,0.591,0.635,0.708,0.453,0.597,(-1.8210)+(0.0309)Ser+(-0.0030)Gln+(-0.0348)Arg+(0.0001)Pro+(0.0063)Orn+(0.0200)Phe;0.626,0.685,0.754,0.797,0.728,0.762,0.686,0.743,(1.0570)+(-0.0009)Gly+(0.0024)Gln+(-0.0211)Arg+(-0.0152)Val+(-0.0096)Lys+(0.0496)Phe;0.626,0.693,0.738,0.758,0.713,0.808,0.686,0.741,(3.2121)+(-0.0014)Gly+(0.0102)Thr+(-0.0177)Arg+(-0.0313)Val+(-0.0124)Lys+(0.0406)Leu;0.626,0.695,0.720,0.756,0.709,0.748,0.623,0.709,(1.5815)+(0.0057)Thr+(-0.0223)Arg+(0.0042)Pro+(-0.0171)Val+(-0.0102)Lys+(0.0504)Phe;0.626,0.692,0.741,0.757,0.693,0.802,0.756,0.752,(2.4624)+(-0.0021)Gly+(0.0011)Gln+(0.0050)Thr+(-0.0306)Val+(-0.0167)Lys+(0.0403)Leu;0.626,0.686,0.739,0.764,0.740,0.791,0.634,0.732,(2.4394)+(0.0034)Gln+(-0.0647)Cit+(-0.0093)Arg+(0.0049)Pro+(-0.0097)Val+(-0.0103)Lys;0.626,0.688,0.781,0.846,0.739,0.802,0.683,0.768,(2.9272)+(-0.0033)Gly+(0.0045)Gln+(-0.0183)Arg+(-0.0363)Tyr+(-0.0086)Val+(-0.0044)Lys;0.626,0.691,0.722,0.734,0.677,0.784,0.739,0.733,(2.7051)+(-0.0017)Gly+(0.0044)Thr+(0.0037)Pro+(-0.0314)Val+(-0.0159)Lys+(0.0393)Leu;0.626,0.696,0.694,0.667,0.678,0.737,0.765,0.712,(0.5511)+(-0.0002)Gly+(0.0012)Gln+(-0.0044)Thr+(-0.0265)Lys+(0.0347)Ile+(0.0083)Phe;0.626,0.692,0.679,0.738,0.642,0.713,0.574,0.667,(1.8739)+(0.0002)Gln+(-0.0063)Thr+(0.0060)Pro+(-0.0560)Tyr+(0.0238)Orn+(-0.0138)Leu;0.625,0.691,0.702,0.776,0.680,0.738,0.526,0.680,(2.2384)+(0.0025)Gln+(0.0045)Thr

+(-0.0256)Arg+(0.0069)Pro+(-0.0529)Tyr+(-0.0110)Leu;0.625,0.679,0.716,0.737,0.707,0.762,0.649,0.713,(2.2116)+(0.0019)Gln+(-0.0535)Cit+(-0.0157)Arg+(0.0045)Pro+(-0.0265)Val+(0.0262)Leu;0.625,0.696,0.667,0.670,0.636,0.697,0.706,0.677,(-1.8095)+(0.0420)Ser+(-0.0068)Gly+(-0.0020)Gln+(-0.0197)Thr+(-0.0181)Leu+(0.0399)Phe;0.625,0.689,0.712,0.721,0.730,0.762,0.610,0.706,(0.5771)+(0.0020)Gly+(0.0028)Gln+(-0.0872)Cit+(-0.0191)Lys+(-0.0088)Leu+(0.0501)Phe;0.625,0.693,0.583,0.584,0.585,0.680,0.509,0.589,(-0.8465)+(0.0252)Ser+(-0.0055)Gln+(0.0031)Pro+(-0.0216)Val+(0.0165)Orn+(0.0463)Phe;0.625,0.687,0.758,0.791,0.755,0.750,0.685,0.745,(1.8053)+(-0.1341)Asn+(0.0006)Gly+(0.0054)Gln+(0.0068)Thr+(-0.0205)Arg+(0.0008)Pro;0.625,0.702,0.687,0.689,0.649,0.720,0.738,0.699,(-2.3991)+(0.0397)Ser+(-0.0073)Gly+(-0.0236)Thr+(0.0151)Orn+(-0.0203)Leu+(0.0346)Phe;0.625,0.675,0.702,0.718,0.697,0.750,0.632,0.699,(2.7910)+(0.0006)Gly+(-0.0524)Cit+(-0.0133)Arg+(0.0050)Pro+(-0.0272)Val+(0.0281)Leu;0.625,0.695,0.584,0.529,0.568,0.651,0.717,0.616,(-2.6620)+(0.0466)Ser+(-0.0057)Gly+(-0.0032)Gln+(-0.0255)Thr+(0.0275)Ile+(0.0019)Phe;0.625,0.689,0.738,0.756,0.675,0.812,0.768,0.752,(1.6232)+(-0.0019)Gly+(-0.0002)Gln+(-0.0116)Ala+(0.0098)Pro+(0.0166)Orn+(-0.0108)Leu;0.625,0.681,0.719,0.743,0.709,0.742,0.660,0.714,(1.0400)+(0.0018)Gln+(-0.0555)Cit+(-0.0170)Arg+(-0.0254)Val+(0.0196)Leu+(0.0423)Phe;0.625,0.689,0.728,0.751,0.738,0.750,0.630,0.717,(3.6649)+(-0.0998)Asn+(0.0012)Gly+(0.0104)Thr+(-0.0132)Arg+(0.0025)Pro+(-0.0090)Lys;0.625,0.686,0.732,0.746,0.745,0.762,0.649,0.725,(0.7821)+(0.0036)Gln+(-0.0785)Cit+(-0.0069)Arg+(-0.0170)Lys+(-0.0101)Leu+(0.0483)Phe;0.625,0.680,0.705,0.733,0.715,0.734,0.592,0.693,(1.2271)+(0.0016)Gly+(0.0014)Thr+(-0.0597)Cit+(-0.0155)Arg+(-0.0158)Val+(0.0530)Phe;0.625,0.685,0.682,0.689,0.635,0.749,0.714,0.697,(1.8632)+(-0.0025)Gly+(-0.0020)Gln+(0.0026)Pro+(-0.0355)Val+(0.0260)Orn+(0.0328)Leu;0.625,0.692,0.756,0.819,0.7

10,0.784,0.670,0.745,(3.0386)+(-0.0044)Gly+(0.0028)Gln+(0.0075)Thr+(-0.0428)Tyr+(-0.0082)Val+(-0.0104)Lys;0.625,0.689,0.692,0.698,0.723,0.747,0.575,0.686,(1.3154)+(0.0029)Gly+(-0.0833)Cit+(0.0021)Pro+(-0.0173)Lys+(-0.0102)Leu+(0.0522)Phe;0.624,0.685,0.724,0.761,0.705,0.741,0.655,0.715,(1.6518)+(-0.0000)Gly+(-0.0199)Arg+(0.0046)Pro+(-0.0167)Val+(-0.0087)Lys+(0.0495)Phe;0.624,0.694,0.690,0.749,0.681,0.738,0.522,0.672,(3.3792)+(0.0091)Thr+(-0.0195)Arg+(0.0066)Pro+(-0.0492)Tyr+(-0.0082)Lys+(-0.0058)Leu;0.624,0.690,0.740,0.801,0.721,0.789,0.586,0.724,(4.3222)+(-0.0031)Gly+(0.0139)Thr+(-0.0190)Arg+(-0.0397)Tyr+(-0.0090)Val+(-0.0051)Lys;0.624,0.691,0.793,0.823,0.734,0.852,0.795,0.801,(2.0544)+(-0.0020)Gly+(0.0024)Gln+(0.0026)Thr+(-0.0081)Ala+(-0.0143)Lys+(0.0023)Leu;0.624,0.690,0.710,0.717,0.720,0.755,0.637,0.707,(1.8702)+(0.0044)Thr+(-0.0713)Cit+(0.0032)Pro+(-0.0127)Val+(-0.0154)Lys+(0.0547)Phe;0.624,0.684,0.605,0.553,0.675,0.697,0.531,0.614,(-0.0282)+(0.0020)Gly+(-0.0016)Gln+(-0.1126)Cit+(0.0288)Orn+(0.0177)Ile+(-0.0053)Phe;0.624,0.677,0.696,0.723,0.701,0.726,0.590,0.685,(1.2443)+(0.0017)Gly+(-0.0591)Cit+(-0.0160)Arg+(0.0041)Pro+(-0.0169)Val+(0.0499)Phe;0.624,0.685,0.806,0.857,0.756,0.853,0.737,0.801,(2.4848)+(-0.0022)Gly+(0.0029)Gln+(0.0055)Thr+(-0.0065)Ala+(-0.0220)Arg+(-0.0095)Val;0.624,0.687,0.724,0.732,0.737,0.760,0.652,0.720,(0.7928)+(0.0031)Gln+(-0.0840)Cit+(0.0014)Pro+(-0.0188)Lys+(-0.0099)Leu+(0.0471)Phe;0.623,0.688,0.655,0.631,0.728,0.726,0.516,0.650,(0.2802)+(0.0015)Gly+(0.0001)Gln+(-0.0984)Cit+(-0.0181)Arg+(0.0330)Orn+(0.0086)Phe;0.623,0.691,0.723,0.763,0.686,0.745,0.679,0.718,(1.1145)+(0.0008)Gln+(-0.0259)Arg+(0.0040)Pro+(-0.0307)Val+(0.0240)Leu+(0.0368)Phe;0.623,0.683,0.702,0.758,0.682,0.724,0.581,0.686,(2.1745)+(-0.0038)Gly+(0.0023)Gln+(0.0043)Thr+(-0.0268)Arg+(-0.0609)Tyr+(0.0231)Orn;0.623,0.690,0.693,0.745,0.677,0.724,0.568,0.679,(3.6394)+(-0.0025)Gly+(0.0115)Thr+(-0.0180)Arg+(0.0056)Pro

+(-0.0534)Tyr+(-0.0104)Lys;0.623,0.686,0.701,0.711,0.732,0.750,0.577,0.692,(1.4099)+(0.0029)Gly+(-0.0796)Cit+(-0.0036)Arg+(-0.0161)Lys+(-0.0096)Leu+(0.0539)Phe;0.623,0.689,0.718,0.771,0.696,0.736,0.612,0.704,(3.6871)+(-0.0015)Gly+(-0.0148)Arg+(0.0073)Pro+(-0.0458)Tyr+(-0.0057)Lys+(-0.0069)Leu;0.623,0.680,0.701,0.722,0.698,0.738,0.626,0.696,(1.3643)+(0.0016)Gly+(-0.0560)Cit+(-0.0149)Arg+(-0.0257)Val+(0.0208)Leu+(0.0454)Phe;0.623,0.678,0.699,0.717,0.695,0.723,0.645,0.695,(1.6756)+(-0.0527)Cit+(-0.0159)Arg+(0.0039)Pro+(-0.0268)Val+(0.0205)Leu+(0.0410)Phe;0.623,0.696,0.759,0.805,0.707,0.817,0.704,0.758,(3.5761)+(-0.0025)Gly+(0.0104)Thr+(-0.0065)Ala+(-0.0356)Tyr+(-0.0116)Lys+(0.0048)Leu;0.623,0.676,0.698,0.698,0.719,0.733,0.629,0.695,(1.3234)+(-0.0005)Gly+(-0.0003)Thr+(-0.0197)Arg+(0.0233)Orn+(-0.0204)Lys+(0.0240)Phe;0.623,0.691,0.720,0.737,0.739,0.737,0.622,0.709,(2.8102)+(-0.1139)Asn+(0.0016)Gly+(0.0051)Thr+(-0.0184)Arg+(0.0008)Pro+(0.0182)Orn;0.623,0.689,0.730,0.770,0.702,0.757,0.665,0.723,(1.0208)+(0.0008)Gln+(0.0033)Thr+(-0.0268)Arg+(-0.0306)Val+(0.0253)Leu+(0.0393)Phe;0.623,0.686,0.749,0.783,0.736,0.801,0.646,0.742,(2.2919)+(-0.0025)Gly+(0.0015)Gln+(-0.0013)Thr+(-0.0269)Arg+(-0.0171)Val+(0.0319)Orn;0.623,0.689,0.715,0.730,0.672,0.786,0.713,0.725,(2.3115)+(0.0004)Gln+(0.0029)Thr+(0.0037)Pro+(-0.0309)Val+(-0.0162)Lys+(0.0388)Leu;0.623,0.688,0.806,0.850,0.744,0.870,0.771,0.809,(2.5101)+(-0.0025)Gly+(0.0024)Gln+(0.0039)Thr+(-0.0066)Ala+(-0.0069)Val+(-0.0104)Lys;0.623,0.673,0.729,0.759,0.730,0.768,0.620,0.719,(2.1840)+(-0.0004)Gly+(0.0026)Gln+(-0.0582)Cit+(-0.0160)Arg+(0.0051)Pro+(-0.0133)Val;0.623,0.685,0.713,0.768,0.670,0.733,0.645,0.704,(2.5494)+(-0.0038)Gly+(0.0026)Gln+(0.0055)Thr+(0.0049)Pro+(-0.0549)Tyr+(-0.0151)Lys;0.623,0.678,0.714,0.743,0.732,0.721,0.592,0.697,(0.3970)+(0.0023)Gln+(-0.0701)Cit+(-0.0182)Arg+(0.0020)Pro+(-0.0208)Leu+(0.0416)Phe;0.623,0.685,0.730,0.770,0.719,0.754,0.628,0.718,(1.6

520)+(-0.0005)Gly+(0.0073)Thr+(-0.0217)Arg+(-0.0160)Val+(-0.0104)Lys+(0.0531)Phe;0.623,0.675,0.699,0.699,0.720,0.732,0.631,0.696,(1.3329)+(-0.0006)Gly+(-0.0198)Arg+(-0.0006)Pro+(0.0235)Orn+(-0.0204)Lys+(0.0245)Phe;0.622,0.679,0.706,0.724,0.704,0.734,0.641,0.701,(1.5918)+(0.0030)Thr+(-0.0529)Cit+(-0.0164)Arg+(-0.0265)Val+(0.0215)Leu+(0.0433)Phe;0.622,0.685,0.735,0.756,0.737,0.795,0.635,0.731,(2.3996)+(0.0001)Gly+(0.0030)Gln+(-0.0727)Cit+(0.0046)Pro+(-0.0089)Val+(-0.0126)Lys;0.622,0.693,0.671,0.676,0.630,0.691,0.728,0.681,(-2.3797)+(0.0410)Ser+(-0.0073)Gly+(-0.0229)Thr+(0.0042)Pro+(-0.0206)Leu+(0.0355)Phe;0.622,0.675,0.701,0.717,0.697,0.750,0.633,0.699,(2.8169)+(0.0024)Thr+(-0.0511)Cit+(-0.0147)Arg+(0.0048)Pro+(-0.0277)Val+(0.0284)Leu;0.622,0.688,0.677,0.682,0.637,0.726,0.709,0.688,(1.0960)+(-0.0019)Gly+(-0.0023)Gln+(-0.0350)Val+(0.0256)Orn+(0.0287)Leu+(0.0270)Phe;0.622,0.688,0.740,0.766,0.736,0.753,0.668,0.731,(3.8158)+(-0.1079)Asn+(0.0007)Gly+(0.0078)Thr+(0.0037)Pro+(-0.0074)Lys+(-0.0093)Leu;0.622,0.673,0.705,0.718,0.691,0.745,0.670,0.706,(2.0733)+(0.0010)Gln+(-0.0033)Thr+(-0.0657)Cit+(0.0041)Pro+(-0.0258)Val+(0.0255)Leu;0.622,0.686,0.743,0.782,0.706,0.758,0.703,0.737,(1.0882)+(-0.0007)Gly+(0.0013)Gln+(-0.0251)Arg+(-0.0298)Val+(0.0246)Leu+(0.0385)Phe;0.622,0.670,0.713,0.728,0.698,0.756,0.671,0.713,(2.0523)+(0.0001)Gly+(0.0012)Gln+(-0.0023)Thr+(-0.0664)Cit+(-0.0253)Val+(0.0272)Leu;0.622,0.681,0.761,0.788,0.687,0.820,0.799,0.774,(1.6776)+(-0.0012)Gly+(0.0010)Gln+(-0.0059)Thr+(-0.0112)Ala+(0.0110)Pro+(-0.0078)Leu;0.622,0.684,0.725,0.755,0.716,0.780,0.622,0.718,(2.6232)+(-0.0019)Gly+(-0.0015)Thr+(-0.0258)Arg+(0.0045)Pro+(-0.0183)Val+(0.0315)Orn;0.622,0.682,0.707,0.713,0.723,0.740,0.632,0.702,(0.7594)+(0.0016)Gln+(-0.0015)Thr+(-0.0212)Arg+(0.0218)Orn+(-0.0207)Lys+(0.0233)Phe;0.622,0.689,0.745,0.775,0.753,0.757,0.639,0.731,(4.1902)+(-0.0992)Asn+(0.0107)Thr+(-0.0141)

Arg+(0.0040)Pro+(-0.0052)Lys+(-0.0104)Leu;0.622,0.690,0.616,0.575,0.578,0.682,0.754,0.647,(-3.3722)+(0.0438)Ser+(-0.0065)Gly+(-0.0272)Thr+(-0.0020)Pro+(0.0280)Ile+(-0.0017)Phe;0.622,0.673,0.728,0.758,0.728,0.768,0.617,0.718,(2.1514)+(0.0026)Gln+(-0.0006)Thr+(-0.0588)Cit+(-0.0157)Arg+(0.0051)Pro+(-0.0131)Val;0.622,0.677,0.719,0.740,0.732,0.775,0.596,0.711,(3.4126)+(0.0011)Gly+(-0.0619)Cit+(-0.0065)Arg+(0.0057)Pro+(-0.0099)Val+(-0.0084)Lys;0.621,0.686,0.655,0.661,0.622,0.713,0.665,0.665,(0.9428)+(-0.0029)Gln+(0.0018)Pro+(-0.0352)Val+(0.0242)Orn+(0.0283)Leu+(0.0275)Phe;0.621,0.686,0.724,0.732,0.738,0.760,0.646,0.719,(0.7965)+(0.0031)Gln+(0.0014)Thr+(-0.0846)Cit+(-0.0193)Lys+(-0.0091)Leu+(0.0477)Phe;0.621,0.693,0.714,0.750,0.684,0.743,0.659,0.709,(1.3222)+(0.0029)Thr+(-0.0264)Arg+(0.0039)Pro+(-0.0315)Val+(0.0251)Leu+(0.0374)Phe;0.621,0.675,0.705,0.730,0.709,0.723,0.617,0.695,(1.5435)+(0.0013)Thr+(-0.0561)Cit+(-0.0163)Arg+(0.0040)Pro+(-0.0171)Val+(0.0482)Phe;0.621,0.675,0.730,0.754,0.720,0.771,0.659,0.726,(2.1968)+(-0.0003)Gly+(0.0023)Gln+(-0.0544)Cit+(-0.0147)Arg+(-0.0255)Val+(0.0275)Leu;0.621,0.687,0.729,0.784,0.682,0.741,0.670,0.719,(2.5455)+(-0.0035)Gly+(0.0030)Gln+(0.0061)Pro+(-0.0511)Tyr+(-0.0120)Lys+(-0.0052)Leu;0.621,0.690,0.613,0.569,0.578,0.682,0.753,0.645,(-3.4949)+(0.0438)Ser+(-0.0065)Gly+(-0.0281)Thr+(-0.0022)Pro+(0.0044)Orn+(0.0266)Ile;0.621,0.686,0.788,0.835,0.748,0.856,0.699,0.784,(3.6531)+(-0.0015)Gly+(0.0095)Thr+(-0.0060)Ala+(-0.0168)Arg+(-0.0078)Val+(-0.0058)Lys;0.621,0.694,0.599,0.589,0.616,0.707,0.511,0.606,(-2.8360)+(0.0284)Ser+(-0.0381)Arg+(-0.0034)Pro+(-0.0011)Orn+(0.0274)Ile+(0.0047)Phe;0.621,0.683,0.707,0.717,0.658,0.768,0.738,0.720,(1.8722)+(-0.0021)Gly+(-0.0012)Gln+(-0.0063)Thr+(-0.0340)Val+(0.0293)Orn+(0.0330)Leu;0.621,0.682,0.710,0.715,0.727,0.737,0.645,0.706,(0.8872)+(-0.0012)Gly+(0.0017)Gln+(-0.0214)Arg+(0.0217)Orn+(-0.0211)Lys+(0.0222)Phe;0.621,0.681,0.734,0.801,0.698,0.7

43,0.625,0.717,(2.5256)+(-0.0033)Gly+(0.0037)Gln+(-0.0226)Arg+(0.0071)Pro+(-0.0529)Tyr+(-0.0116)Leu;0.621,0.679,0.710,0.743,0.730,0.723,0.569,0.691,(0.2367)+(0.0011)Gly+(0.0022)Gln+(-0.0720)Cit+(-0.0178)Arg+(-0.0196)Leu+(0.0443)Phe;0.621,0.691,0.671,0.636,0.668,0.728,0.728,0.690,(0.6616)+(-0.0008)Gly+(0.0005)Gln+(0.0129)Orn+(-0.0290)Lys+(0.0310)Ile+(0.0065)Phe;0.621,0.694,0.633,0.631,0.628,0.748,0.564,0.642,(-0.4026)+(0.0350)Ser+(-0.0014)Gln+(-0.0125)Thr+(0.0048)Pro+(-0.0179)Lys+(-0.0019)Leu;0.621,0.672,0.695,0.706,0.684,0.743,0.652,0.696,(2.3534)+(0.0006)Gly+(-0.0025)Thr+(-0.0647)Cit+(0.0043)Pro+(-0.0263)Val+(0.0266)Leu;0.621,0.692,0.551,0.497,0.540,0.661,0.638,0.584,(-2.9240)+(0.0405)Ser+(-0.0039)Gln+(-0.0257)Thr+(-0.0016)Pro+(0.0320)Ile+(0.0046)Phe;0.620,0.677,0.696,0.698,0.718,0.734,0.620,0.693,(1.2348)+(-0.0003)Thr+(-0.0199)Arg+(-0.0005)Pro+(0.0233)Orn+(-0.0204)Lys+(0.0249)Phe;0.620,0.671,0.709,0.727,0.707,0.763,0.627,0.706,(2.8478)+(0.0002)Gly+(0.0036)Thr+(-0.0522)Cit+(-0.0138)Arg+(-0.0269)Val+(0.0301)Leu;0.620,0.689,0.748,0.783,0.745,0.755,0.660,0.736,(3.9469)+(-0.0899)Asn+(0.0015)Gly+(-0.0112)Arg+(0.0050)Pro+(-0.0033)Lys+(-0.0103)Leu;0.620,0.689,0.614,0.628,0.570,0.708,0.601,0.627,(-1.9663)+(0.0174)Ser+(0.0011)Pro+(-0.0336)Val+(0.0117)Orn+(0.0258)Leu+(0.0281)Phe;0.620,0.685,0.694,0.699,0.729,0.751,0.572,0.687,(1.3448)+(0.0027)Gly+(0.0028)Thr+(-0.0841)Cit+(-0.0182)Lys+(-0.0089)Leu+(0.0528)Phe;0.620,0.673,0.725,0.748,0.717,0.773,0.642,0.720,(2.1815)+(0.0021)Gln+(0.0019)Thr+(-0.0542)Cit+(-0.0156)Arg+(-0.0259)Val+(0.0279)Leu;0.620,0.687,0.739,0.776,0.745,0.752,0.619,0.723,(3.9229)+(-0.1066)Asn+(0.0011)Gly+(0.0091)Thr+(-0.0160)Arg+(0.0043)Pro+(-0.0130)Leu;0.620,0.686,0.716,0.721,0.739,0.744,0.634,0.710,(1.8733)+(-0.0733)Cit+(-0.0044)Arg+(0.0023)Pro+(-0.0151)Lys+(-0.0116)Leu+(0.0498)Phe;0.620,0.687,0.718,0.753,0.684,0.739,0.684,0.715,(1.4516)+(-0.0003)Gly+(-0.0246)Arg+(0.0042)Pro+(-0.0309)Val+(0.0

246)Leu+(0.0372)Phe;0.620,0.671,0.688,0.701,0.682,0.719,0.641,0.686,(1.0224)+(0.0015)Gly+(-0.0031)Thr+(-0.0691)Cit+(-0.0247)Val+(0.0196)Leu+(0.0408)Phe;0.620,0.688,0.782,0.815,0.748,0.843,0.722,0.782,(3.1093)+(-0.0009)Gly+(0.0078)Thr+(-0.0075)Ala+(-0.0150)Arg+(-0.0100)Lys+(0.0013)Leu;0.620,0.688,0.748,0.783,0.757,0.769,0.621,0.732,(4.1410)+(-0.0997)Asn+(0.0007)Gly+(0.0119)Thr+(-0.0136)Arg+(-0.0054)Lys+(-0.0076)Leu;0.620,0.684,0.724,0.740,0.704,0.776,0.684,0.726,(2.4794)+(-0.0024)Gly+(-0.0031)Thr+(0.0040)Pro+(-0.0146)Val+(0.0311)Orn+(-0.0136)Lys;0.620,0.687,0.726,0.761,0.699,0.751,0.671,0.720,(1.3911)+(-0.0006)Gly+(0.0043)Thr+(-0.0257)Arg+(-0.0310)Val+(0.0261)Leu+(0.0396)Phe;0.620,0.671,0.703,0.718,0.691,0.727,0.675,0.703,(0.9998)+(0.0008)Gln+(-0.0032)Thr+(-0.0682)Cit+(-0.0246)Val+(0.0191)Leu+(0.0383)Phe;0.620,0.680,0.716,0.733,0.729,0.782,0.596,0.710,(3.2865)+(0.0008)Gly+(0.0029)Thr+(-0.0689)Cit+(0.0051)Pro+(-0.0093)Val+(-0.0113)Lys;0.620,0.689,0.702,0.754,0.670,0.728,0.613,0.691,(3.3805)+(-0.0030)Gly+(0.0066)Thr+(0.0060)Pro+(-0.0523)Tyr+(-0.0121)Lys+(-0.0043)Leu;0.620,0.688,0.776,0.811,0.706,0.807,0.808,0.783,(0.3271)+(-0.0008)Gly+(0.0007)Gln+(-0.0041)Thr+(-0.0096)Ala+(-0.0115)Leu+(0.0452)Phe;0.620,0.685,0.734,0.754,0.738,0.794,0.632,0.729,(2.4223)+(0.0029)Gln+(0.0012)Thr+(-0.0729)Cit+(0.0045)Pro+(-0.0089)Val+(-0.0130)Lys;0.619,0.682,0.762,0.822,0.729,0.775,0.662,0.747,(2.5447)+(-0.0031)Gly+(0.0045)Gln+(-0.0177)Arg+(-0.0422)Tyr+(-0.0084)Lys+(-0.0035)Leu;0.619,0.689,0.772,0.833,0.697,0.816,0.738,0.771,(2.3089)+(-0.0034)Gly+(0.0022)Gln+(0.0037)Thr+(-0.0069)Ala+(-0.0409)Tyr+(-0.0015)Leu;0.619,0.684,0.749,0.778,0.756,0.803,0.616,0.738,(2.4689)+(0.0035)Gln+(0.0042)Thr+(-0.0664)Cit+(-0.0097)Arg+(-0.0078)Val+(-0.0115)Lys;0.619,0.688,0.722,0.782,0.680,0.733,0.644,0.710,(2.2326)+(-0.0042)Gly+(0.0012)Gln+(-0.0025)Thr+(-0.0560)Tyr+(0.0260)Orn+(-0.0120)Leu;0.619,0.682,0.682,0.692,0.636,0.753,0.697,0.695,(1.726

5)+(-0.0018)Gln+(-0.0078)Thr+(0.0033)Pro+(-0.0340)Val+(0.0278)Orn+(0.0317)Leu;0.619,0.671,0.706,0.726,0.699,0.717,0.659,0.700,(0.8200)+(0.0012)Gln+(-0.0049)Thr+(-0.0715)Cit+(0.0034)Pro+(-0.0162)Val+(0.0429)Phe;0.619,0.671,0.695,0.707,0.685,0.744,0.649,0.697,(2.0626)+(0.0000)Gly+(0.0006)Gln+(-0.0664)Cit+(0.0038)Pro+(-0.0265)Val+(0.0262)Leu;0.619,0.671,0.692,0.702,0.683,0.714,0.669,0.692,(1.2994)+(-0.0032)Thr+(-0.0665)Cit+(0.0031)Pro+(-0.0254)Val+(0.0191)Leu+(0.0366)Phe;0.619,0.680,0.704,0.712,0.723,0.739,0.622,0.699,(0.7612)+(0.0015)Gln+(-0.0216)Arg+(-0.0008)Pro+(0.0217)Orn+(-0.0210)Lys+(0.0240)Phe;0.618,0.682,0.729,0.761,0.739,0.730,0.622,0.713,(0.3597)+(0.0028)Gln+(-0.0031)Thr+(-0.0707)Cit+(-0.0163)Arg+(-0.0193)Leu+(0.0433)Phe;0.618,0.682,0.758,0.787,0.760,0.805,0.646,0.749,(2.4314)+(-0.0003)Gly+(0.0039)Gln+(-0.0663)Cit+(-0.0083)Arg+(-0.0076)Val+(-0.0104)Lys;0.618,0.693,0.550,0.493,0.543,0.666,0.635,0.584,(-2.8040)+(0.0401)Ser+(-0.0040)Gln+(-0.0263)Thr+(-0.0018)Pro+(0.0062)Orn+(0.0317)Ile;0.618,0.675,0.656,0.636,0.674,0.704,0.634,0.662,(-0.1630)+(0.0029)Gly+(0.0010)Gln+(-0.0103)Thr+(-0.0924)Cit+(-0.0037)Pro+(0.0307)Ile;0.618,0.691,0.702,0.766,0.682,0.725,0.556,0.682,(3.5618)+(-0.0027)Gly+(0.0086)Thr+(-0.0225)Arg+(0.0072)Pro+(-0.0551)Tyr+(-0.0105)Leu;0.618,0.679,0.701,0.703,0.728,0.752,0.606,0.697,(0.5577)+(0.0021)Gly+(0.0031)Gln+(-0.0858)Cit+(-0.0044)Arg+(-0.0210)Lys+(0.0419)Phe;0.618,0.674,0.704,0.728,0.701,0.726,0.634,0.697,(0.5762)+(0.0014)Gly+(0.0011)Gln+(-0.0046)Thr+(-0.0742)Cit+(-0.0151)Val+(0.0476)Phe;0.618,0.680,0.720,0.740,0.734,0.778,0.596,0.712,(3.5281)+(0.0050)Thr+(-0.0603)Cit+(-0.0086)Arg+(0.0053)Pro+(-0.0102)Val+(-0.0095)Lys;0.618,0.686,0.745,0.767,0.723,0.796,0.699,0.746,(2.2942)+(-0.0028)Gly+(0.0009)Gln+(-0.0025)Thr+(-0.0132)Val+(0.0317)Orn+(-0.0142)Lys;0.618,0.684,0.724,0.743,0.701,0.778,0.682,0.726,(2.3182)+(-0.0029)Gly+(0.0005)Gln+(0.0036)Pro+(-0.0146)Val+(0.0295)Orn+(-0.0149)Lys

;0.618,0.679,0.713,0.726,0.728,0.761,0.612,0.707,(1.4056)+(0.0018)Gln+(-0.0019)Thr+(-0.0208)Arg+(0.0003)Pro+(0.0240)Orn+(-0.0185)Lys;0.618,0.675,0.690,0.713,0.722,0.710,0.545,0.673,(0.8069)+(0.0020)Gly+(-0.0706)Cit+(-0.0159)Arg+(0.0025)Pro+(-0.0203)Leu+(0.0454)Phe;0.618,0.671,0.684,0.703,0.702,0.701,0.586,0.673,(0.5094)+(0.0024)Gly+(-0.0074)Thr+(-0.0825)Cit+(0.0025)Pro+(-0.0194)Leu+(0.0437)Phe;0.618,0.679,0.721,0.732,0.733,0.758,0.641,0.716,(1.5607)+(-0.0017)Gly+(0.0021)Gln+(-0.0210)Arg+(-0.0000)Pro+(0.0240)Orn+(-0.0191)Lys;0.618,0.681,0.682,0.675,0.721,0.744,0.574,0.678,(1.3523)+(0.0032)Gly+(-0.0838)Cit+(-0.0018)Arg+(0.0010)Pro+(-0.0197)Lys+(0.0441)Phe;0.618,0.684,0.799,0.843,0.750,0.841,0.753,0.797,(1.8434)+(-0.0017)Gly+(0.0028)Gln+(0.0026)Thr+(-0.0080)Ala+(-0.0220)Arg+(-0.0046)Leu;0.618,0.679,0.728,0.740,0.747,0.785,0.617,0.722,(1.9138)+(0.0007)Gly+(0.0033)Gln+(-0.0820)Cit+(0.0024)Pro+(-0.0167)Lys+(-0.0029)Leu;0.618,0.678,0.724,0.735,0.735,0.759,0.645,0.719,(1.5469)+(-0.0017)Gly+(0.0022)Gln+(-0.0013)Thr+(-0.0206)Arg+(0.0243)Orn+(-0.0188)Lys;0.618,0.669,0.687,0.706,0.687,0.714,0.615,0.681,(0.8970)+(0.0018)Gly+(-0.0048)Thr+(-0.0724)Cit+(0.0036)Pro+(-0.0161)Val+(0.0461)Phe;0.617,0.669,0.676,0.684,0.675,0.715,0.630,0.676,(0.9403)+(0.0011)Gly+(-0.0700)Cit+(0.0027)Pro+(-0.0257)Val+(0.0191)Leu+(0.0367)Phe;0.617,0.686,0.712,0.734,0.694,0.775,0.645,0.712,(2.0660)+(0.0002)Gln+(-0.0047)Thr+(0.0041)Pro+(-0.0143)Val+(0.0298)Orn+(-0.0136)Lys;0.617,0.676,0.648,0.626,0.669,0.695,0.628,0.655,(-0.2760)+(0.0031)Gly+(0.0008)Gln+(-0.0114)Thr+(-0.0926)Cit+(0.0254)Ile+(0.0030)Phe;0.617,0.677,0.736,0.751,0.753,0.786,0.623,0.728,(1.9858)+(0.0037)Gln+(-0.0754)Cit+(-0.0069)Arg+(0.0026)Pro+(-0.0149)Lys+(-0.0042)Leu;0.617,0.680,0.698,0.697,0.724,0.754,0.606,0.695,(0.5571)+(0.0022)Gly+(0.0029)Gln+(-0.0894)Cit+(0.0003)Pro+(-0.0220)Lys+(0.0419)Phe;0.617,0.682,0.748,0.771,0.753,0.802,0.638

,0.741,(2.4442)+(-0.0003)Gly+(0.0033)Gln+(0.0026)Thr+(-0.0738)Cit+(-0.0072)Val+(-0.0133)Lys;0.617,0.682,0.653,0.638,0.685,0.709,0.585,0.654,(0.4581)+(0.0031)Gly+(-0.0053)Thr+(-0.0807)Cit+(-0.0130)Arg+(-0.0032)Pro+(0.0316)Ile;0.617,0.687,0.710,0.728,0.654,0.741,0.757,0.720,(0.6127)+(-0.0020)Gly+(-0.0083)Thr+(-0.0328)Val+(0.0262)Orn+(0.0260)Leu+(0.0258)Phe;0.617,0.668,0.711,0.738,0.719,0.758,0.588,0.701,(2.9774)+(0.0005)Gly+(0.0012)Thr+(-0.0567)Cit+(-0.0136)Arg+(0.0056)Pro+(-0.0131)Val;0.617,0.674,0.703,0.727,0.712,0.717,0.612,0.692,(0.0530)+(0.0018)Gly+(0.0017)Gln+(-0.0079)Thr+(-0.0846)Cit+(-0.0184)Leu+(0.0433)Phe;0.617,0.673,0.746,0.780,0.745,0.785,0.630,0.735,(2.1832)+(-0.0007)Gly+(0.0030)Gln+(0.0008)Thr+(-0.0594)Cit+(-0.0155)Arg+(-0.0114)Val;0.616,0.678,0.725,0.751,0.736,0.778,0.592,0.714,(1.7094)+(0.0019)Gln+(-0.0020)Thr+(-0.0222)Arg+(0.0271)Orn+(-0.0143)Lys+(-0.0101)Leu;0.616,0.690,0.607,0.560,0.574,0.677,0.751,0.640,(-3.4151)+(0.0439)Ser+(-0.0066)Gly+(-0.0285)Thr+(0.0041)Orn+(0.0247)Ile+(-0.0031)Phe;0.616,0.674,0.734,0.758,0.743,0.773,0.627,0.725,(1.9241)+(-0.0023)Gly+(0.0023)Gln+(-0.0226)Arg+(0.0271)Orn+(-0.0147)Lys+(-0.0108)Leu;0.616,0.681,0.734,0.783,0.707,0.735,0.655,0.720,(0.9433)+(-0.0008)Gly+(0.0014)Gln+(-0.0265)Arg+(0.0042)Pro+(-0.0193)Val+(0.0433)Phe;0.616,0.677,0.724,0.732,0.745,0.784,0.613,0.719,(1.8481)+(0.0008)Gly+(0.0033)Gln+(0.0006)Thr+(-0.0831)Cit+(0.0019)Pro+(-0.0179)Lys;0.616,0.677,0.646,0.623,0.668,0.701,0.619,0.653,(-0.0467)+(0.0033)Gly+(-0.0096)Thr+(-0.0918)Cit+(-0.0036)Pro+(0.0301)Ile+(0.0053)Phe;0.616,0.676,0.740,0.759,0.757,0.788,0.622,0.732,(1.9634)+(0.0004)Gly+(0.0038)Gln+(-0.0767)Cit+(-0.0061)Arg+(-0.0152)Lys+(-0.0021)Leu;0.616,0.668,0.684,0.692,0.678,0.716,0.653,0.685,(1.0784)+(0.0002)Gln+(-0.0684)Cit+(0.0027)Pro+(-0.0258)Val+(0.0192)Leu+(0.0354)Phe;0.616,0.679,0.711,0.722,0.742,0.771,0.574,0.702,(2.9489)+(0.0018)Gly+(-0.0738)Cit+(-0.0036)Arg+(0.0034)Pro+(-0.0133)Lys

+(-0.0036)Leu;0.616,0.676,0.726,0.737,0.747,0.782,0.612,0.719,(1.8363)+(0.0008)Gly+(0.0036)Gln+(-0.0785)Cit+(-0.0057)Arg+(0.0020)Pro+(-0.0166)Lys;0.616,0.688,0.727,0.764,0.692,0.782,0.659,0.724,(2.0714)+(0.0010)Gln+(0.0022)Thr+(-0.0249)Arg+(0.0048)Pro+(-0.0313)Val+(0.0307)Leu;0.616,0.680,0.707,0.714,0.740,0.773,0.572,0.700,(2.8672)+(0.0016)Gly+(0.0025)Thr+(-0.0780)Cit+(0.0029)Pro+(-0.0153)Lys+(-0.0027)Leu;0.616,0.677,0.738,0.756,0.757,0.790,0.612,0.729,(2.0212)+(0.0037)Gln+(0.0026)Thr+(-0.0762)Cit+(-0.0070)Arg+(-0.0158)Lys+(-0.0023)Leu;0.616,0.688,0.686,0.697,0.645,0.731,0.711,0.696,(0.9421)+(-0.0020)Gln+(-0.0073)Thr+(-0.0335)Val+(0.0274)Orn+(0.0274)Leu+(0.0295)Phe;0.616,0.681,0.697,0.696,0.723,0.753,0.604,0.694,(0.5713)+(0.0022)Gly+(0.0028)Gln+(0.0011)Thr+(-0.0897)Cit+(-0.0222)Lys+(0.0421)Phe;0.616,0.679,0.699,0.725,0.728,0.718,0.556,0.682,(0.8524)+(0.0022)Gly+(-0.0021)Thr+(-0.0712)Cit+(-0.0139)Arg+(-0.0186)Leu+(0.0477)Phe;0.615,0.678,0.717,0.717,0.737,0.750,0.649,0.713,(0.7821)+(0.0036)Gln+(-0.0822)Cit+(-0.0047)Arg+(0.0002)Pro+(-0.0207)Lys+(0.0388)Phe;0.615,0.675,0.714,0.734,0.719,0.714,0.651,0.704,(0.2719)+(0.0019)Gln+(-0.0079)Thr+(-0.0820)Cit+(0.0022)Pro+(-0.0197)Leu+(0.0397)Phe;0.615,0.682,0.706,0.720,0.650,0.755,0.748,0.718,(1.4405)+(-0.0024)Gly+(-0.0082)Thr+(0.0030)Pro+(-0.0334)Val+(0.0269)Orn+(0.0300)Leu;0.615,0.679,0.696,0.762,0.665,0.702,0.582,0.678,(2.1437)+(-0.0035)Gly+(0.0029)Gln+(0.0066)Thr+(-0.0258)Arg+(0.0049)Pro+(-0.0623)Tyr;0.615,0.676,0.650,0.638,0.686,0.705,0.565,0.649,(-0.0560)+(0.0022)Gly+(0.0013)Gln+(-0.0811)Cit+(-0.0179)Arg+(-0.0041)Pro+(0.0300)Ile;0.615,0.681,0.712,0.718,0.743,0.749,0.606,0.704,(1.8437)+(0.0050)Thr+(-0.0748)Cit+(-0.0056)Arg+(-0.0167)Lys+(-0.0103)Leu+(0.0505)Phe;0.615,0.677,0.732,0.743,0.749,0.785,0.630,0.727,(1.9692)+(0.0034)Gln+(0.0006)Thr+(-0.0812)Cit+(0.0023)Pro+(-0.0169)Lys+(-0.0030)Leu;0.615,0.682,0.645,0.625,0.681,0.698,0.580,0.646,(0.1751)+(0.0034)Gly

+(-0.0066)Thr+(-0.0811)Cit+(-0.0136)Arg+(0.0260)Ile+(0.0060)Phe;0.615,0.679,0.730,0.753,0.749,0.792,0.584,0.720,(3.5826)+(0.0004)Gly+(0.0065)Thr+(-0.0628)Cit+(-0.0074)Arg+(-0.0080)Val+(-0.0100)Lys;0.615,0.679,0.659,0.645,0.689,0.705,0.601,0.660,(-0.0668)+(0.0027)Gly+(0.0016)Gln+(-0.0074)Thr+(-0.0814)Cit+(-0.0148)Arg+(0.0264)Ile;0.615,0.668,0.684,0.696,0.682,0.719,0.634,0.683,(0.9001)+(0.0010)Gly+(0.0002)Gln+(-0.0701)Cit+(-0.0252)Val+(0.0197)Leu+(0.0389)Phe;0.615,0.676,0.728,0.739,0.749,0.781,0.616,0.721,(1.9096)+(0.0036)Gln+(0.0020)Thr+(-0.0775)Cit+(-0.0064)Arg+(0.0017)Pro+(-0.0171)Lys;0.615,0.665,0.719,0.744,0.712,0.755,0.639,0.712,(1.9618)+(0.0002)Gly+(0.0018)Gln+(-0.0048)Thr+(-0.0709)Cit+(0.0049)Pro+(-0.0128)Val;0.615,0.676,0.732,0.745,0.751,0.791,0.617,0.726,(1.9532)+(0.0005)Gly+(0.0034)Gln+(0.0013)Thr+(-0.0822)Cit+(-0.0172)Lys+(-0.0012)Leu;0.615,0.693,0.679,0.671,0.655,0.746,0.705,0.694,(-0.7180)+(0.0401)Ser+(-0.0074)Gly+(-0.0019)Gln+(-0.0206)Thr+(0.0192)Orn+(-0.0133)Leu;0.614,0.683,0.696,0.755,0.664,0.733,0.583,0.684,(2.2411)+(0.0019)Gln+(0.0025)Thr+(0.0057)Pro+(-0.0495)Tyr+(-0.0134)Lys+(-0.0040)Leu;0.614,0.683,0.727,0.778,0.703,0.737,0.633,0.713,(0.8621)+(0.0011)Gln+(0.0010)Thr+(-0.0271)Arg+(0.0042)Pro+(-0.0195)Val+(0.0443)Phe;0.614,0.678,0.712,0.713,0.734,0.752,0.636,0.709,(0.8060)+(0.0034)Gln+(0.0026)Thr+(-0.0826)Cit+(-0.0055)Arg+(-0.0214)Lys+(0.0389)Phe;0.614,0.684,0.725,0.756,0.694,0.770,0.678,0.725,(2.6082)+(-0.0013)Gly+(0.0037)Thr+(-0.0236)Arg+(0.0050)Pro+(-0.0319)Val+(0.0318)Leu;0.614,0.678,0.672,0.726,0.620,0.675,0.633,0.663,(1.6929)+(-0.0036)Gly+(0.0006)Gln+(-0.0034)Thr+(0.0038)Pro+(-0.0665)Tyr+(0.0191)Orn;0.614,0.685,0.708,0.709,0.735,0.748,0.623,0.704,(1.7544)+(0.0033)Thr+(-0.0791)Cit+(0.0016)Pro+(-0.0177)Lys+(-0.0104)Leu+(0.0491)Phe;0.614,0.677,0.731,0.746,0.752,0.787,0.606,0.723,(1.9288)+(0.0004)Gly+(0.0036)Gln+(0.0025)Thr+(-0.0779)Cit+(-0.0064)Arg+(-0.0168)Lys;0.614,0.678,0.639,

0.623,0.680,0.698,0.551,0.638,(0.1336)+(0.0028)Gly+(-0.0810)Cit+(-0.0165)Arg+(-0.0039)Pro+(0.0295)Ile+(0.0057)Phe;0.614,0.682,0.743,0.779,0.702,0.779,0.708,0.742,(2.1887)+(-0.0016)Gly+(0.0016)Gln+(-0.0236)Arg+(0.0049)Pro+(-0.0308)Val+(0.0299)Leu;0.614,0.672,0.706,0.710,0.727,0.752,0.617,0.702,(2.1330)+(-0.0010)Gly+(-0.0003)Thr+(-0.0190)Arg+(0.0004)Pro+(0.0258)Orn+(-0.0181)Lys;0.613,0.681,0.677,0.669,0.717,0.743,0.566,0.674,(1.3192)+(0.0030)Gly+(0.0027)Thr+(-0.0864)Cit+(0.0006)Pro+(-0.0211)Lys+(0.0440)Phe;0.613,0.682,0.745,0.797,0.721,0.745,0.654,0.729,(0.8622)+(-0.0010)Gly+(0.0016)Gln+(0.0024)Thr+(-0.0270)Arg+(-0.0185)Val+(0.0464)Phe;0.613,0.672,0.634,0.602,0.703,0.703,0.529,0.634,(0.1653)+(0.0013)Gly+(-0.0011)Gln+(-0.1131)Cit+(-0.0035)Pro+(0.0353)Orn+(0.0095)Phe;0.613,0.676,0.712,0.709,0.733,0.752,0.646,0.710,(0.7972)+(0.0032)Gln+(0.0017)Thr+(-0.0866)Cit+(-0.0000)Pro+(-0.0222)Lys+(0.0392)Phe;0.613,0.668,0.682,0.700,0.685,0.714,0.607,0.677,(0.6947)+(0.0011)Gly+(0.0003)Gln+(-0.0740)Cit+(0.0030)Pro+(-0.0166)Val+(0.0440)Phe;0.612,0.679,0.702,0.707,0.740,0.769,0.562,0.694,(2.8409)+(0.0017)Gly+(0.0035)Thr+(-0.0759)Cit+(-0.0040)Arg+(0.0025)Pro+(-0.0157)Lys;0.612,0.690,0.542,0.481,0.535,0.659,0.631,0.576,(-2.9106)+(0.0406)Ser+(-0.0041)Gln+(-0.0269)Thr+(0.0055)Orn+(0.0288)Ile+(0.0033)Phe;0.612,0.677,0.686,0.674,0.708,0.714,0.655,0.688,(0.1530)+(0.0023)Gln+(-0.0055)Thr+(-0.0782)Cit+(-0.0152)Arg+(-0.0037)Pro+(0.0287)Ile;0.612,0.682,0.742,0.815,0.716,0.751,0.596,0.719,(2.5593)+(-0.0041)Gly+(0.0036)Gln+(0.0082)Thr+(-0.0255)Arg+(-0.0517)Tyr+(-0.0083)Leu;0.612,0.670,0.721,0.750,0.742,0.750,0.582,0.706,(1.5063)+(0.0001)Gly+(0.0027)Gln+(-0.0692)Cit+(-0.0167)Arg+(0.0030)Pro+(-0.0136)Leu;0.612,0.680,0.719,0.767,0.699,0.725,0.633,0.706,(1.2873)+(-0.0004)Gly+(0.0020)Thr+(-0.0260)Arg+(0.0044)Pro+(-0.0195)Val+(0.0453)Phe;0.612,0.669,0.721,0.739,0.730,0.752,0.630,0.713,(1.2822)+(0.0008)Gly+(0.0022)Gln+(-0.0076)Thr+(-0.081

1)Cit+(0.0032)Pro+(-0.0127)Leu;0.611,0.685,0.692,0.712,0.637,0.735,0.720,0.701,(0.3009)+(-0.0101)Thr+(0.0022)Pro+(-0.0324)Val+(0.0244)Orn+(0.0245)Leu+(0.0256)Phe;0.611,0.668,0.714,0.731,0.731,0.763,0.596,0.705,(2.5009)+(-0.0014)Gly+(-0.0209)Arg+(0.0022)Pro+(0.0282)Orn+(-0.0137)Lys+(-0.0118)Leu;0.611,0.678,0.754,0.793,0.715,0.796,0.705,0.752,(2.1912)+(-0.0019)Gly+(0.0017)Gln+(0.0041)Thr+(-0.0246)Arg+(-0.0306)Val+(0.0319)Leu;0.611,0.681,0.679,0.673,0.721,0.746,0.561,0.675,(1.3697)+(0.0029)Gly+(0.0036)Thr+(-0.0840)Cit+(-0.0030)Arg+(-0.0206)Lys+(0.0445)Phe;0.611,0.674,0.709,0.730,0.734,0.708,0.599,0.693,(1.2348)+(-0.0017)Thr+(-0.0673)Cit+(-0.0143)Arg+(0.0026)Pro+(-0.0202)Leu+(0.0437)Phe;0.611,0.680,0.689,0.704,0.634,0.723,0.738,0.700,(0.4146)+(-0.0030)Gly+(0.0014)Pro+(-0.0343)Val+(0.0217)Orn+(0.0263)Leu+(0.0221)Phe;0.611,0.680,0.736,0.795,0.697,0.754,0.649,0.724,(2.5936)+(-0.0040)Gly+(0.0029)Gln+(0.0066)Thr+(-0.0491)Tyr+(-0.0144)Lys+(-0.0012)Leu;0.611,0.673,0.719,0.738,0.722,0.737,0.646,0.711,(0.6356)+(0.0022)Gln+(0.0012)Thr+(-0.0206)Arg+(0.0002)Pro+(-0.0189)Lys+(0.0274)Phe;0.611,0.673,0.729,0.756,0.745,0.753,0.606,0.715,(1.5139)+(0.0030)Gln+(-0.0035)Thr+(-0.0693)Cit+(-0.0150)Arg+(0.0033)Pro+(-0.0133)Leu;0.611,0.668,0.721,0.740,0.736,0.769,0.603,0.712,(2.5578)+(-0.0015)Gly+(-0.0001)Thr+(-0.0204)Arg+(0.0293)Orn+(-0.0138)Lys+(-0.0104)Leu;0.611,0.672,0.677,0.656,0.689,0.702,0.690,0.684,(0.0133)+(0.0015)Gln+(-0.0093)Thr+(-0.0891)Cit+(-0.0039)Pro+(0.0283)Ile+(0.0

012)Phe;0.611,0.681,0.770,0.793,0.711,0.831,0.788,0.781,(1.4766)+(-0.0016)Gly+(0.0008)Gln+(-0.0068)Thr+(-0.0088)Ala+(0.0232)Orn+(-0.0077)Leu;0.610,0.677,0.724,0.756,0.689,0.735,0.707,0.722,(1.0831)+(-0.0013)Gly+(0.0007)Gln+(0.0036)Pro+(-0.0156)Val+(-0.0146)Lys+(0.0441)Phe;0.610,0.674,0.669,0.656,0.699,0.706,0.614,0.669,(0.0643)+(0.0018)Gln+(-0.0785)Cit+(-0.0179)Arg+(-0.0043)Pro+(0.0277)Ile+(0.0021)Phe;0.610,0.6

76,0.714,0.739,0.729,0.775,0.574,0.704,(1.7188)+(0.0017)Gln+(-0.0231)Arg+(0.0019)Pro+(0.0256)Orn+(-0.0146)Lys+(-0.0113)Leu;0.610,0.681,0.719,0.730,0.719,0.731,0.683,0.716,(0.9359)+(-0.0014)Gly+(-0.0049)Thr+(0.0247)Orn+(-0.0191)Lys+(-0.0145)Leu+(0.0355)Phe;0.610,0.674,0.678,0.663,0.703,0.701,0.651,0.679,(0.1003)+(0.0021)Gln+(-0.0065)Thr+(-0.0778)Cit+(-0.0154)Arg+(0.0236)Ile+(0.0014)Phe;0.610,0.674,0.718,0.745,0.688,0.731,0.697,0.715,(1.2698)+(-0.0010)Gly+(0.0006)Thr+(0.0037)Pro+(-0.0158)Val+(-0.0143)Lys+(0.0452)Phe;0.610,0.671,0.709,0.728,0.727,0.767,0.576,0.700,(2.2888)+(-0.0016)Thr+(-0.0209)Arg+(0.0024)Pro+(0.0280)Orn+(-0.0134)Lys+(-0.0115)Leu;0.609,0.670,0.725,0.763,0.723,0.735,0.623,0.711,(0.6531)+(0.0022)Gln+(-0.0224)Arg+(0.0023)Pro+(-0.0135)Lys+(-0.0160)Leu+(0.0409)Phe;0.609,0.675,0.712,0.723,0.748,0.778,0.563,0.703,(3.0375)+(0.0013)Gly+(0.0047)Thr+(-0.0744)Cit+(-0.0042)Arg+(-0.0147)Lys+(-0.0013)Leu;0.609,0.682,0.712,0.783,0.657,0.704,0.646,0.698,(2.2078)+(-0.0039)Gly+(0.0019)Gln+(-0.0004)Thr+(0.0066)Pro+(-0.0586)Tyr+(-0.0116)Leu;0.609,0.683,0.716,0.773,0.706,0.747,0.563,0.697,(3.8293)+(-0.0027)Gly+(0.0128)Thr+(-0.0178)Arg+(-0.0462)Tyr+(-0.0093)Lys+(-0.0022)Leu;0.609,0.676,0.716,0.725,0.748,0.771,0.589,0.708,(3.1550)+(0.0042)Thr+(-0.0714)Cit+(-0.0051)Arg+(0.0029)Pro+(-0.0141)Lys+(-0.0040)Leu;0.609,0.670,0.706,0.729,0.737,0.740,0.558,0.691,(2.3348)+(0.0013)Gly+(-0.0018)Thr+(-0.0680)Cit+(-0.0125)Arg+(0.0038)Pro+(-0.0122)Leu;0.608,0.672,0.727,0.745,0.728,0.737,0.670,0.720,(0.7039)+(-0.0007)Gly+(0.0025)Gln+(-0.0200)Arg+(0.0003)Pro+(-0.0186)Lys+(0.0267)Phe;0.608,0.675,0.637,0.620,0.682,0.693,0.550,0.636,(-0.1684)+(0.0024)Gly+(0.0010)Gln+(-0.0811)Cit+(-0.0187)Arg+(0.0241)Ile+(0.0026)Phe;0.608,0.671,0.724,0.742,0.726,0.737,0.662,0.717,(0.7219)+(-0.0008)Gly+(0.0024)Gln+(0.0015)Thr+(-0.0205)Arg+(-0.0190)Lys+(0.0268)Phe;0.608,0.679,0.673,0.653,0.702,0.703,0.642,0.675,(0.7850)+(-0.0037)Thr+(-0.0761)Cit+(-

0.0131)Arg+(-0.0035)Pro+(0.0282)Ile+(0.0041)Phe;0.608,0.671,0.737,0.767,0.753,0.765,0.603,0.722,(1.5126)+(0.0001)Gly+(0.0031)Gln+(-0.0026)Thr+(-0.0698)Cit+(-0.0148)Arg+(-0.0111)Leu;0.608,0.675,0.696,0.686,0.732,0.743,0.613,0.694,(1.8367)+(0.0048)Thr+(-0.0786)Cit+(-0.0033)Arg+(0.0004)Pro+(-0.0203)Lys+(0.0404)Phe;0.608,0.669,0.727,0.767,0.726,0.738,0.616,0.712,(0.6390)+(0.0023)Gln+(0.0017)Thr+(-0.0227)Arg+(-0.0140)Lys+(-0.0147)Leu+(0.0420)Phe;0.608,0.666,0.739,0.777,0.735,0.738,0.651,0.725,(0.7288)+(-0.0010)Gly+(0.0026)Gln+(-0.0219)Arg+(-0.0135)Lys+(-0.0147)Leu+(0.0412)Phe;0.608,0.662,0.677,0.696,0.700,0.696,0.562,0.664,(0.1133)+(0.0012)Gly+(0.0007)Gln+(-0.0861)Cit+(0.0014)Pro+(-0.0201)Leu+(0.0397)Phe;0.607,0.676,0.715,0.748,0.682,0.737,0.682,0.712,(0.9574)+(0.0004)Gln+(-0.0004)Thr+(0.0036)Pro+(-0.0156)Val+(-0.0146)Lys+(0.0451)Phe;0.607,0.668,0.721,0.755,0.736,0.726,0.597,0.704,(0.7863)+(-0.0007)Gly+(-0.0051)Thr+(-0.0280)Arg+(0.0240)Orn+(-0.0245)Leu+(0.0372)Phe;0.607,0.670,0.737,0.763,0.736,0.757,0.659,0.729,(1.5060)+(-0.0014)Gly+(0.0028)Gln+(0.0014)Thr+(-0.0200)Arg+(0.0012)Pro+(-0.0164)Lys;0.607,0.677,0.740,0.789,0.719,0.800,0.614,0.730,(2.2467)+(0.0022)Gln+(0.0029)Thr+(-0.0219)Arg+(0.0054)Pro+(-0.0135)Val+(-0.0081)Lys;0.607,0.684,0.711,0.723,0.713,0.728,0.662,0.706,(0.6986)+(-0.0061)Thr+(0.0013)Pro+(0.0236)Orn+(-0.0189)Lys+(-0.0150)Leu+(0.0356)Phe;0.606,0.683,0.716,0.732,0.714,0.733,0.666,0.711,(0.5550)+(0.0005)Gln+(-0.0060)Thr+(0.0236)Orn+(-0.0193)Lys+(-0.0143)Leu+(0.0358)Phe;0.606,0.671,0.757,0.804,0.727,0.795,0.669,0.749,(2.3695)+(-0.0019)Gly+(0.0028)Gln+(-0.0206)Arg+(0.0055)Pro+(-0.0135)Val+(-0.0075)Lys;0.606,0.674,0.737,0.770,0.702,0.749,0.714,0.734,(1.0208)+(-0.0014)Gly+(0.0009)Gln+(0.0013)Thr+(-0.0147)Val+(-0.0149)Lys+(0.0468)Phe;0.606,0.665,0.717,0.749,0.722,0.722,0.619,0.703,(1.3532)+(-0.0000)Gly+(-0.0200)Arg+(0.0027)Pro+(-0.0125)Lys+(-0.0161)Leu+(0.0430)Phe;0.605,0.670,0.772,0.823,0.746,0.

812,0.658,0.760,(2.4473)+(-0.0025)Gly+(0.0031)Gln+(0.0055)Thr+(-0.021
7)Arg+(-0.0118)Val+(-0.0088)Lys;0.605,0.678,0.603,0.570,0.583,0.653,0
.697,0.626,(-2.2662)+(0.0448)Ser+(-0.0063)Gly+(-0.0027)Gln+(-0.0236)T
hr+(0.0018)Pro+(0.0160)Phe;0.604,0.685,0.680,0.675,0.644,0.745,0.720,
0.696,(-1.3411)+(0.0394)Ser+(-0.0078)Gly+(-0.0233)Thr+(0.0040)Pro+(0.
0161)Orn+(-0.0161)Leu;0.604,0.670,0.722,0.762,0.734,0.730,0.588,0.704
,(0.3419)+(0.0011)Gln+(-0.0061)Thr+(-0.0290)Arg+(0.0228)Orn+(-0.0245)
Leu+(0.0368)Phe;0.604,0.691,0.623,0.625,0.615,0.708,0.575,0.631,(-2.0
621)+(0.0341)Ser+(-0.0033)Gln+(-0.0226)Thr+(0.0168)Orn+(-0.0197)Leu+(
0.0414)Phe;0.603,0.686,0.608,0.568,0.590,0.674,0.701,0.633,(-2.2504)+
(0.0445)Ser+(-0.0063)Gly+(-0.0029)Gln+(-0.0245)Thr+(0.0114)Orn+(0.014
3)Phe;0.603,0.659,0.716,0.749,0.725,0.722,0.609,0.701,(1.3847)+(-0.00
03)Gly+(0.0034)Thr+(-0.0207)Arg+(-0.0134)Lys+(-0.0147)Leu+(0.0440)Phe
;0.603,0.660,0.619,0.592,0.656,0.677,0.573,0.624,(-0.2574)+(0.0021)Gl
y+(-0.0001)Gln+(-0.0954)Cit+(-0.0048)Pro+(0.0289)Ile+(0.0013)Phe;0.60
3,0.664,0.712,0.744,0.721,0.721,0.603,0.697,(1.3232)+(0.0022)Thr+(-0.
0210)Arg+(0.0025)Pro+(-0.0131)Lys+(-0.0161)Leu+(0.0429)Phe;0.602,0.66
5,0.702,0.716,0.714,0.722,0.629,0.695,(1.3126)+(-0.0000)Gly+(0.0026)T
hr+(-0.0187)Arg+(0.0005)Pro+(-0.0183)Lys+(0.0291)Phe;0.602,0.681,0.70
9,0.737,0.671,0.719,0.707,0.709,(0.7023)+(-0.0014)Gly+(-0.0011)Gln+(-
0.0082)Thr+(-0.0203)Val+(0.0268)Orn+(0.0380)Phe;0.601,0.675,0.660,0.6
58,0.627,0.716,0.695,0.674,(-0.7610)+(0.0413)Ser+(-0.0074)Gly+(-0.001
4)Gln+(-0.0198)Thr+(0.0049)Pro+(-0.0135)Leu;0.600,0.662,0.670,0.673,0
.688,0.695,0.606,0.665,(-0.0971)+(0.0023)Gly+(0.0013)Gln+(-0.0098)Thr
+(-0.0893)Cit+(-0.0002)Pro+(0.0193)Phe;0.600,0.666,0.712,0.747,0.726,
0.720,0.581,0.694,(0.6769)+(-0.0060)Thr+(-0.0281)Arg+(0.0021)Pro+(0.0
231)Orn+(-0.0253)Leu+(0.0365)Phe;0.600,0.682,0.575,0.533,0.546,0.680,
0.673,0.608,(-3.8903)+(0.0358)Ser+(-0.0290)Thr+(-0.0023)Pro+(0.0030)O

rn+(0.0298)Ile+(-0.0006)Phe;0.599,0.678,0.607,0.615,0.593,0.673,0.570,0.613,(-2.1180)+(0.0355)Ser+(-0.0030)Gln+(-0.0222)Thr+(0.0045)Pro+(-0.0200)Leu+(0.0421)Phe;0.599,0.660,0.751,0.792,0.744,0.773,0.645,0.738,(1.8034)+(-0.0019)Gly+(0.0031)Gln+(0.0023)Thr+(-0.0210)Arg+(-0.0130)Lys+(-0.0078)Leu;0.599,0.667,0.682,0.702,0.632,0.691,0.725,0.687,(1.0554)+(-0.0014)Gly+(-0.0013)Gln+(0.0030)Pro+(-0.0319)Val+(0.0258)Leu+(0.0281)Phe;0.598,0.668,0.705,0.715,0.709,0.719,0.661,0.701,(0.8771)+(-0.0018)Gly+(0.0006)Pro+(0.0224)Orn+(-0.0207)Lys+(-0.0147)Leu+(0.0346)Phe;0.598,0.679,0.609,0.565,0.596,0.682,0.698,0.635,(-1.7618)+(0.0438)Ser+(-0.0066)Gly+(-0.0027)Gln+(-0.0241)Thr+(0.0017)Pro+(0.0124)Orn;0.597,0.678,0.686,0.713,0.650,0.709,0.673,0.687,(0.6395)+(-0.0015)Gln+(-0.0095)Thr+(0.0031)Pro+(-0.0208)Val+(0.0255)Orn+(0.0365)Phe;0.597,0.667,0.710,0.722,0.711,0.720,0.668,0.705,(0.7561)+(-0.0020)Gly+(0.0005)Gln+(0.0223)Orn+(-0.0210)Lys+(-0.0144)Leu+(0.0343)Phe;0.596,0.662,0.718,0.757,0.735,0.722,0.578,0.698,(0.4706)+(-0.0013)Gly+(0.0009)Gln+(-0.0313)Arg+(0.0207)Orn+(-0.0253)Leu+(0.0355)Phe;0.596,0.666,0.701,0.714,0.727,0.729,0.591,0.690,(0.7678)+(0.0012)Gly+(0.0024)Gln+(-0.0052)Thr+(-0.0758)Cit+(-0.0144)Arg+(0.0008)Pro;0.596,0.674,0.706,0.738,0.658,0.713,0.714,0.706,(0.4300)+(-0.0017)Gly+(-0.0099)Thr+(0.0029)Pro+(-0.0208)Val+(0.0246)Orn+(0.0334)Phe;0.595,0.664,0.748,0.800,0.718,0.777,0.650,0.736,(2.1593)+(-0.0020)Gly+(0.0022)Gln+(0.0011)Thr+(-0.0250)Arg+(0.0055)Pro+(-0.0160)Val;0.595,0.666,0.733,0.775,0.717,0.783,0.618,0.724,(3.1900)+(-0.0013)Gly+(0.0051)Thr+(-0.0198)Arg+(0.0058)Pro+(-0.0138)Val+(-0.0073)Lys;0.595,0.669,0.708,0.736,0.650,0.710,0.758,0.713,(0.9638)+(-0.0010)Gly+(-0.0007)Gln+(-0.0039)Thr+(-0.0305)Val+(0.0258)Leu+(0.0315)Phe;0.595,0.662,0.707,0.734,0.644,0.731,0.747,0.714,(1.8619)+(-0.0016)Gly+(-0.0003)Gln+(-0.0042)Thr+(0.0043)Pro+(-0.0313)Val+(0.0301)Leu;0.595,0.661,0.707,0.743,0.729,0.715,0.561,0.687,(0

.7039)+(-0.0010)Gly+(-0.0306)Arg+(0.0015)Pro+(0.0210)Orn+(-0.0259)Leu+(0.0357)Phe;0.594,0.659,0.735,0.777,0.730,0.770,0.608,0.721,(1.6145)+(0.0026)Gln+(0.0004)Thr+(-0.0212)Arg+(0.0030)Pro+(-0.0124)Lys+(-0.0093)Leu;0.594,0.668,0.702,0.695,0.707,0.725,0.691,0.704,(0.9523)+(-0.0011)Gly+(-0.0044)Thr+(-0.0006)Pro+(0.0222)Orn+(-0.0234)Lys+(0.0225)Phe;0.594,0.657,0.747,0.787,0.737,0.769,0.650,0.736,(1.7619)+(-0.0017)Gly+(0.0030)Gln+(-0.0208)Arg+(0.0030)Pro+(-0.0123)Lys+(-0.0097)Leu;0.594,0.669,0.674,0.698,0.645,0.691,0.663,0.674,(0.7470)+(-0.0020)Gly+(-0.0020)Gln+(0.0024)Pro+(-0.0218)Val+(0.0230)Orn+(0.0353)Phe;0.593,0.669,0.707,0.701,0.708,0.725,0.708,0.711,(0.7065)+(-0.0013)Gly+(0.0009)Gln+(-0.0052)Thr+(0.0213)Orn+(-0.0237)Lys+(0.0210)Phe;0.593,0.671,0.702,0.699,0.705,0.728,0.683,0.704,(0.5699)+(0.0006)Gln+(-0.0055)Thr+(-0.0006)Pro+(0.0212)Orn+(-0.0236)Lys+(0.0227)Phe;0.592,0.671,0.693,0.708,0.698,0.721,0.626,0.688,(0.5585)+(0.0000)Gln+(0.0006)Pro+(0.0212)Orn+(-0.0211)Lys+(-0.0144)Leu+(0.0354)Phe;0.592,0.661,0.703,0.744,0.724,0.719,0.541,0.682,(0.3345)+(0.0006)Gln+(-0.0317)Arg+(0.0015)Pro+(0.0197)Orn+(-0.0258)Leu+(0.0360)Phe;0.591,0.664,0.681,0.692,0.708,0.702,0.578,0.670,(-0.0174)+(0.0020)Gly+(0.0020)Gln+(-0.0061)Thr+(-0.0783)Cit+(-0.0148)Arg+(0.0202)Phe;0.591,0.679,0.624,0.595,0.589,0.677,0.735,0.649,(-2.9823)+(0.0424)Ser+(-0.0070)Gly+(-0.0268)Thr+(0.0009)Pro+(0.0086)Orn+(0.0096)Phe;0.591,0.659,0.740,0.778,0.743,0.767,0.614,0.726,(1.4184)+(-0.0019)Gly+(0.0018)Gln+(-0.0056)Thr+(-0.0274)Arg+(0.0249)Orn+(-0.0183)Leu;0.590,0.666,0.685,0.709,0.632,0.694,0.725,0.690,(0.9402)+(-0.0011)Gln+(-0.0053)Thr+(0.0034)Pro+(-0.0307)Val+(0.0246)Leu+(0.0299)Phe;0.590,0.664,0.702,0.730,0.640,0.697,0.758,0.706,(0.7931)+(-0.0013)Gly+(-0.0057)Thr+(0.0033)Pro+(-0.0304)Val+(0.0239)Leu+(0.0278)Phe;0.589,0.659,0.662,0.667,0.701,0.693,0.548,0.652,(0.5206)+(0.0026)Gly+(-0.0047)Thr+(-0.0771)Cit+(-0.0131)Arg+(0.0001)Pro+(0.0226)Phe;

0.588,0.658,0.745,0.782,0.705,0.782,0.701,0.742,(2.1901)+(-0.0022)Gly+(0.0016)Gln+(-0.0006)Thr+(0.0050)Pro+(-0.0128)Val+(-0.0122)Lys;0.588,0.657,0.665,0.673,0.703,0.695,0.542,0.653,(0.0286)+(0.0015)Gly+(0.0016)Gln+(-0.0776)Cit+(-0.0177)Arg+(-0.0008)Pro+(0.0188)Phe;0.587,0.658,0.718,0.757,0.726,0.761,0.571,0.704,(1.2497)+(0.0014)Gln+(-0.0070)Thr+(-0.0273)Arg+(0.0028)Pro+(0.0238)Orn+(-0.0193)Leu;0.587,0.674,0.611,0.597,0.609,0.668,0.611,0.621,(-1.3233)+(0.0333)Ser+(-0.0075)Gly+(-0.0038)Gln+(0.0085)Orn+(-0.0229)Leu+(0.0309)Phe;0.587,0.653,0.715,0.749,0.726,0.749,0.578,0.701,(1.8861)+(-0.0012)Gly+(-0.0054)Thr+(-0.0259)Arg+(0.0029)Pro+(0.0255)Orn+(-0.0194)Leu;0.587,0.677,0.633,0.648,0.606,0.701,0.601,0.639,(-2.9493)+(0.0312)Ser+(-0.0258)Thr+(0.0035)Pro+(0.0124)Orn+(-0.0217)Leu+(0.0361)Phe;0.587,0.664,0.519,0.445,0.526,0.635,0.617,0.556,(-2.0060)+(0.0363)Ser+(-0.0066)Gly+(-0.0047)Gln+(-0.0043)Pro+(0.0248)Ile+(-0.0082)Phe;0.586,0.655,0.682,0.693,0.678,0.699,0.651,0.680,(-0.3004)+(0.0005)Gly+(0.0013)Gln+(-0.0066)Thr+(-0.0284)Arg+(-0.0032)Pro+(0.0248)Ile;0.586,0.668,0.721,0.732,0.722,0.759,0.664,0.719,(1.9379)+(-0.0017)Gly+(-0.0052)Thr+(0.0019)Pro+(0.0264)Orn+(-0.0176)Lys+(-0.0097)Leu;0.586,0.668,0.738,0.755,0.730,0.771,0.685,0.735,(1.5822)+(-0.0022)Gly+(0.0014)Gln+(-0.0053)Thr+(0.0260)Orn+(-0.0183)Lys+(-0.0087)Leu;0.586,0.664,0.688,0.690,0.694,0.711,0.655,0.687,(-0.2530)+(0.0011)Gln+(-0.0079)Thr+(-0.0287)Arg+(-0.0034)Pro+(0.0104)Orn+(0.0218)Ile;0.586,0.670,0.717,0.735,0.713,0.765,0.644,0.714,(1.3809)+(0.0008)Gln+(-0.0068)Thr+(0.0019)Pro+(0.0249)Orn+(-0.0179)Lys+(-0.0093)Leu;0.586,0.665,0.674,0.672,0.685,0.707,0.630,0.673,(0.0043)+(0.0006)Gly+(-0.0075)Thr+(-0.0278)Arg+(-0.0032)Pro+(0.0111)Orn+(0.0223)Ile;0.586,0.665,0.720,0.723,0.716,0.752,0.697,0.722,(1.3227)+(-0.0018)Gly+(0.0012)Gln+(-0.0052)Thr+(0.0002)Pro+(0.0234)Orn+(-0.0217)Lys;0.586,0.664,0.712,0.740,0.671,0.752

,0.695,0.714,(1.7343)+(-0.0022)Gly+(-0.0004)Gln+(-0.0090)Thr+(0.0043)Pro+(-0.0182)Val+(0.0275)Orn;0.585,0.664,0.605,0.596,0.600,0.648,0.610,0.613,(-1.3586)+(0.0340)Ser+(-0.0074)Gly+(-0.0035)Gln+(0.0016)Pro+(-0.0226)Leu+(0.0315)Phe;0.585,0.661,0.697,0.707,0.719,0.700,0.622,0.687,(0.2036)+(0.0025)Gln+(-0.0052)Thr+(-0.0756)Cit+(-0.0152)Arg+(-0.0004)Pro+(0.0178)Phe;0.583,0.660,0.697,0.692,0.701,0.717,0.687,0.699,(0.7390)+(-0.0017)Gly+(0.0006)Gln+(-0.0012)Pro+(0.0202)Orn+(-0.0251)Lys+(0.0219)Phe;0.582,0.645,0.721,0.756,0.725,0.753,0.596,0.707,(2.5954)+(-0.0008)Gly+(0.0026)Thr+(-0.0188)Arg+(0.0033)Pro+(-0.0116)Lys+(-0.0092)Leu;0.580,0.665,0.513,0.440,0.520,0.615,0.617,0.548,(-2.2581)+(0.0366)Ser+(-0.0064)Gly+(-0.0048)Gln+(-0.0044)Pro+(-0.0029)Orn+(0.0234)Ile;0.580,0.667,0.620,0.606,0.616,0.704,0.609,0.634,(-0.4644)+(0.0327)Ser+(-0.0080)Gly+(-0.0033)Gln+(0.0017)Pro+(0.0096)Orn+(-0.0180)Leu;0.580,0.648,0.722,0.761,0.733,0.755,0.570,0.705,(1.4142)+(-0.0021)Gly+(0.0014)Gln+(-0.0299)Arg+(0.0021)Pro+(0.0216)Orn+(-0.0202)Leu;0.579,0.648,0.738,0.792,0.735,0.714,0.614,0.714,(0.3018)+(-0.0008)Gly+(0.0020)Gln+(-0.0027)Thr+(-0.0277)Arg+(-0.0218)Leu+(0.0387)Phe;0.579,0.650,0.660,0.661,0.680,0.689,0.596,0.657,(-0.3061)+(-0.0000)Gly+(0.0006)Gln+(-0.0322)Arg+(-0.0040)Pro+(0.0073)Orn+(0.0217)Ile;0.579,0.669,0.609,0.607,0.604,0.735,0.535,0.620,(-0.9855)+(0.0326)Ser+(-0.0028)Gln+(-0.0227)Thr+(0.0044)Pro+(0.0177)Orn+(-0.0143)Leu;0.579,0.646,0.721,0.776,0.716,0.706,0.595,0.698,(0.2471)+(0.0017)Gln+(-0.0038)Thr+(-0.0277)Arg+(0.0028)Pro+(-0.0231)Leu+(0.0379)Phe;0.578,0.670,0.547,0.506,0.546,0.662,0.578,0.573,(-2.5269)+(0.0378)Ser+(-0.0038)Gln+(-0.0255)Thr+(0.0015)Pro+(0.0105)Orn+(0.0174)Phe;0.578,0.655,0.687,0.696,0.682,0.701,0.665,0.686,(-0.1939)+(0.0014)Gln+(-0.0064)Thr+(-0.0282)Arg+(-0.0032)Pro+(0.0250)Ile+(-0.0022)Phe;0.578,0.659,0.634,0.641,0.611,0.668,0.642,0.641,(-2.2410)+(0.0293)Ser+(-0.0085)Gly+(0.0007)Pro+(0.0041)Orn+

(-0.0240)Leu+(0.0256)Phe;0.578,0.647,0.720,0.774,0.721,0.705,0.588,0.697,(0.3403)+(-0.0009)Gly+(0.0016)Gln+(-0.0293)Arg+(0.0024)Pro+(-0.0235)Leu+(0.0370)Phe;0.577,0.659,0.717,0.730,0.714,0.756,0.660,0.715,(1.5969)+(-0.0025)Gly+(0.0009)Gln+(0.0011)Pro+(0.0236)Orn+(-0.0198)Lys+(-0.0093)Leu;0.577,0.653,0.733,0.760,0.716,0.723,0.701,0.725,(0.6039)+(-0.0013)Gly+(0.0015)Gln+(-0.0026)Thr+(-0.0180)Lys+(-0.0125)Leu+(0.0375)Phe;0.577,0.664,0.680,0.677,0.692,0.705,0.645,0.680,(0.1999)+(-0.0071)Thr+(-0.0274)Arg+(-0.0032)Pro+(0.0116)Orn+(0.0225)Ile+(-0.0030)Phe;0.576,0.657,0.719,0.749,0.702,0.721,0.678,0.712,(0.4850)+(0.0011)Gln+(-0.0039)Thr+(0.0020)Pro+(-0.0177)Lys+(-0.0135)Leu+(0.0374)Phe;0.576,0.652,0.715,0.738,0.704,0.712,0.680,0.709,(0.9768)+(-0.0007)Gly+(-0.0025)Thr+(0.0021)Pro+(-0.0171)Lys+(-0.0137)Leu+(0.0383)Phe;0.576,0.658,0.673,0.673,0.683,0.699,0.635,0.672,(-0.2933)+(0.0004)Gly+(0.0008)Gln+(-0.0089)Thr+(-0.0286)Arg+(0.0097)Orn+(0.0181)Ile;0.575,0.654,0.668,0.673,0.673,0.690,0.631,0.667,(0.0958)+(0.0009)Gly+(-0.0057)Thr+(-0.0270)Arg+(-0.0029)Pro+(0.0256)Ile+(-0.0005)Phe;0.574,0.645,0.713,0.763,0.717,0.696,0.583,0.690,(0.8115)+(-0.0001)Gly+(-0.0025)Thr+(-0.0261)Arg+(0.0030)Pro+(-0.0229)Leu+(0.0395)Phe;0.573,0.651,0.720,0.744,0.706,0.716,0.686,0.713,(0.6370)+(-0.0014)Gly+(0.0012)Gln+(0.0016)Pro+(-0.0188)Lys+(-0.0134)Leu+(0.0364)Phe;0.571,0.648,0.674,0.681,0.673,0.690,0.643,0.672,(-0.2185)+(0.0005)Gly+(0.0012)Gln+(-0.0074)Thr+(-0.0281)Arg+(0.0217)Ile+(-0.0029)Phe;0.571,0.652,0.719,0.727,0.710,0.717,0.718,0.718,(0.6074)+(-0.0010)Gly+(0.0014)Gln+(-0.0027)Thr+(0.0002)Pro+(-0.0219)Lys+(0.0252)Phe;0.570,0.656,0.494,0.411,0.506,0.603,0.609,0.532,(-2.0440)+(0.0364)Ser+(-0.0066)Gly+(-0.0048)Gln+(-0.0036)Orn+(0.0206)Ile+(-0.0087)Phe;0.569,0.658,0.665,0.662,0.679,0.699,0.621,0.665,(0.0713)+(0.0006)Gly+(-0.0083)Thr+(-0.0276)Arg+(0.0107)Orn+(0.0194)Ile+(-0.0038)Phe;0.569,0.653,0.656,0.655,0.678,0.689,0.588,0.653,(-0

.0152)+(0.0001)Gly+(-0.0312)Arg+(-0.0039)Pro+(0.0082)Orn+(0.0227)Ile+(-0.0036)Phe;0.568,0.658,0.678,0.678,0.685,0.705,0.645,0.678,(-0.1171)+(0.0010)Gln+(-0.0087)Thr+(-0.0284)Arg+(0.0101)Orn+(0.0190)Ile+(-0.0049)Phe;0.568,0.651,0.661,0.662,0.681,0.691,0.593,0.657,(-0.1926)+(0.0006)Gln+(-0.0320)Arg+(-0.0040)Pro+(0.0076)Orn+(0.0227)Ile+(-0.0041)Phe;0.568,0.645,0.710,0.729,0.724,0.729,0.620,0.700,(0.3105)+(-0.0006)Gly+(0.0012)Gln+(-0.0077)Thr+(-0.0277)Arg+(-0.0007)Pro+(0.0161)Orn;0.568,0.646,0.664,0.669,0.676,0.688,0.610,0.661,(-0.2275)+(0.0001)Gly+(0.0009)Gln+(-0.0313)Arg+(-0.0037)Pro+(0.0245)Ile+(-0.0029)Phe;0.565,0.649,0.702,0.746,0.648,0.682,0.711,0.697,(0.6828)+(-0.0010)Gly+(-0.0003)Gln+(-0.0064)Thr+(0.0040)Pro+(-0.0191)Val+(0.0375)Phe;0.564,0.643,0.697,0.712,0.718,0.714,0.604,0.687,(0.3176)+(-0.0000)Gly+(-0.0072)Thr+(-0.0272)Arg+(-0.0009)Pro+(0.0160)Orn+(0.0086)Phe;0.562,0.645,0.704,0.722,0.719,0.720,0.612,0.693,(0.0029)+(0.0010)Gln+(-0.0080)Thr+(-0.0282)Arg+(-0.0010)Pro+(0.0152)Orn+(0.0079)Phe;0.561,0.644,0.702,0.719,0.716,0.716,0.619,0.692,(0.0396)+(-0.0003)Gly+(0.0010)Gln+(-0.0081)Thr+(-0.0281)Arg+(0.0148)Orn+(0.0065)Phe;0.561,0.642,0.745,0.776,0.722,0.764,0.696,0.740,(1.5167)+(-0.0018)Gly+(0.0020)Gln+(-0.0031)Thr+(0.0026)Pro+(-0.0164)Lys+(-0.0078)Leu;0.558,0.630,0.739,0.793,0.728,0.746,0.612,0.720,(1.3278)+(-0.0015)Gly+(0.0025)Gln+(-0.0032)Thr+(-0.0260)Arg+(0.0035)Pro+(-0.0168)Leu;0.557,0.649,0.453,0.382,0.475,0.611,0.481,0.487,(-2.3822)+(0.0293)Ser+(-0.0054)Gln+(-0.0044)Pro+(-0.0032)Orn+(0.0280)Ile+(-0.0051)Phe;0.556,0.637,0.644,0.642,0.669,0.677,0.574,0.641,(-0.1632)+(-0.0000)Gly+(0.0004)Gln+(-0.0321)Arg+(0.0065)Orn+(0.0184)Ile+(-0.0056)Phe;0.552,0.640,0.554,0.503,0.530,0.647,0.673,0.588,(-3.0492)+(0.0311)Ser+(-0.0078)Gly+(-0.0049)Pro+(-0.0065)Orn+(0.0230)Ile+(-0.0132)Phe;0.549,0.646,0.532,0.478,0.541,0.617,0.595,0.558,(-1.7408)+(0.0353)Ser+(-0.0071)Gly+(-0.0043)Gln+(-0.0016)Pro+(0.0020)Orn+

(0.0040)Phe;0.548,0.633,0.682,0.700,0.710,0.697,0.565,0.668,(0.0432)+(-0.0008)Gly+(0.0007)Gln+(-0.0313)Arg+(-0.0017)Pro+(0.0123)Orn+(0.0067)Phe;0.547,0.627,0.706,0.737,0.708,0.692,0.627,0.691,(-0.0207)+(-0.0002)Gly+(0.0015)Gln+(-0.0057)Thr+(-0.0275)Arg+(-0.0003)Pro+(0.0113)Phe;0.542,0.642,0.532,0.534,0.554,0.632,0.406,0.531,(-1.7133)+(0.0251)Ser+(-0.0046)Gln+(0.0012)Pro+(0.0073)Orn+(-0.0234)Leu+(0.0347)Phe;0.541,0.634,0.712,0.744,0.694,0.689,0.679,0.702,(0.0027)+(-0.0011)Gly+(-0.0003)Gln+(-0.0129)Thr+(0.0200)Orn+(-0.0236)Leu+(0.0302)Phe;0.534,0.633,0.705,0.740,0.684,0.680,0.674,0.694,(-0.0781)+(-0.0012)Gly+(-0.0137)Thr+(0.0019)Pro+(0.0191)Orn+(-0.0245)Leu+(0.0289)Phe;0.532,0.633,0.694,0.728,0.677,0.682,0.648,0.684,(-0.0970)+(-0.0005)Gln+(-0.0139)Thr+(0.0020)Pro+(0.0192)Orn+(-0.0244)Leu+(0.0301)Phe;0.519,0.619,0.713,0.744,0.690,0.730,0.668,0.708,(0.7949)+(-0.0016)Gly+(0.0002)Gln+(-0.0130)Thr+(0.0025)Pro+(0.0210)Orn+(-0.0197)Leu;0.509,0.623,0.636,0.610,0.609,0.660,0.743,0.655,(-0.7027)+(0.0002)Gly+(-0.0007)Gln+(-0.0154)Thr+(-0.0034)Pro+(0.0079)Orn+(0.0206)Ile;0.507,0.607,0.710,0.758,0.677,0.658,0.689,0.695,(-0.0442)+(-0.0008)Gly+(0.0003)Gln+(-0.0111)Thr+(0.0026)Pro+(-0.0226)Leu+(0.0316)Phe;0.502,0.617,0.647,0.628,0.613,0.665,0.753,0.665,(-0.4611)+(0.0002)Gly+(-0.0004)Gln+(-0.0140)Thr+(-0.0032)Pro+(0.0247)Ile+(-0.0077)Phe;0.502,0.623,0.650,0.630,0.617,0.677,0.753,0.670,(-0.6050)+(-0.0002)Gly+(-0.0156)Thr+(-0.0034)Pro+(0.0080)Orn+(0.0227)Ile+(-0.0097)Phe;0.500,0.625,0.631,0.601,0.611,0.655,0.735,0.651,(-0.4308)+(0.0001)Gly+(-0.0007)Gln+(-0.0159)Thr+(0.0080)Orn+(0.0191)Ile+(-0.0100)Phe;0.500,0.621,0.643,0.618,0.615,0.674,0.743,0.663,(-0.4330)+(-0.0006)Gln+(-0.0151)Thr+(-0.0033)Pro+(0.0085)Orn+(0.0228)Ile+(-0.0091)Phe;0.472,0.602,0.663,0.698,0.665,0.643,0.582,0.647,(-0.0609)+(-0.0021)Gly+(-0.0013)Gln+(0.0006)Pro+(0.0142)Orn+(-0.0253)Leu+(0.0273)Phe;0.468,0.620,0.683,0.679,0.666,0.685,0.723,0.688,(-0.2841)

+(-0.0005)Gly+(-0.0005)Gln+(-0.0147)Thr+(-0.0009)Pro+(0.0130)Orn+(0.0025)Phe;0.412,0.572,0.558,0.504,0.558,0.602,0.670,0.584,(-0.4802)+(-0.0011)Gly+(-0.0018)Gln+(-0.0047)Pro+(0.0028)Orn+(0.0217)Ile+(-0.0124)Phe

請求の範囲

[請求項1] 評価対象から採取した血液中のアミノ酸の濃度値に関するアミノ酸濃度データを取得する取得ステップと、

前記取得ステップで取得した前記評価対象の前記アミノ酸濃度データ、及び、アミノ酸の濃度値が代入される変数を含む予め設定された、膵臓癌の状態を評価するための式を用いて、前記式の値を算出することで、前記評価対象における膵臓癌の状態を評価する評価ステップと、

を含み、

前記アミノ酸濃度データには、Ａｓｎ，Ｈｉｓ，Ｔｈｒ，Ａｌａ，Ｃｉｔ，Ａｒｇ，Ｔｙｒ，Ｖａｌ，Ｍｅｔ，Ｌｙｓ，Ｔｒｐ，Ｇｌｙ，Ｐｒｏ，Ｏｒｎ，Ｉｌｅ，Ｌｅｕ，Ｐｈｅ，Ｓｅｒ，ＧｌｎのうちのＮ少なくとも２つのアミノ酸の濃度値が含まれており、

前記式には、Ａｓｎ，Ｈｉｓ，Ｔｈｒ，Ａｌａ，Ｃｉｔ，Ａｒｇ，Ｔｙｒ，Ｖａｌ，Ｍｅｔ，Ｌｙｓ，Ｔｒｐ，Ｇｌｙ，Ｐｒｏ，Ｏｒｎ，Ｉｌｅ，Ｌｅｕ，Ｐｈｅ，Ｓｅｒ，ＧｌｎのうちのＮ少なくとも２つのアミノ酸の濃度値が代入される少なくとも２つの変数が含まれていること、

を特徴とする膵臓癌の評価方法。

[請求項2] 前記膵臓癌の状態とは、膵臓癌に罹患している可能性の程度のことであり、

前記評価対象における膵臓癌の状態を評価するとは、前記評価対象が膵臓癌に罹患している可能性の程度を評価することである、

を特徴とする請求項１に記載の膵臓癌の評価方法。

[請求項3] 膵臓癌に罹患している可能性の程度を少なくとも考慮して定義された複数の区分と、１つ又は複数の閾値が予め設定されており、

前記評価対象が膵臓癌に罹患している可能性の程度を評価するとは、前記式の値及び前記閾値を用いて、前記評価対象を複数の前記区分

のうちのどれか１つに分類することである、

を特徴とする請求項２に記載の膵臓癌の評価方法。

[請求項4] 複数の前記区分には、膵臓癌に罹患している可能性の程度及び膵臓癌以外の癌に罹患している可能性の程度を少なくとも考慮して定義された区分が少なくとも１つ含まれていること、

を特徴とする請求項３に記載の膵臓癌の評価方法。

[請求項5] 複数の前記区分には、膵臓癌に罹患している可能性が高い対象を属させるための区分及び膵臓癌に罹患している可能性が低い対象を属させるための区分が含まれていること、

を特徴とする請求項３又は４に記載の膵臓癌の評価方法。

[請求項6] 膵臓癌に罹患している可能性が低い対象を属させるための前記区分は、健常である可能性が高い対象を属させるための健常区分、膵臓癌以外の癌に罹患している可能性が高い対象を属させるための他癌区分、又は、健常である可能性が高い対象と膵臓癌以外の癌に罹患している可能性が高い対象を属させるための健常／他癌区分であること、

を特徴とする請求項５に記載の膵臓癌の評価方法。

[請求項7] 膵臓癌に罹患している可能性が低い対象を属させるための前記区分には、健常である可能性が高い対象を属させるための健常区分、及び、膵臓癌以外の癌に罹患している可能性が高い対象を属させるための他癌区分が含まれていること、

を特徴とする請求項５に記載の膵臓癌の評価方法。

[請求項8] 前記式は、ロジスティック回帰式、分数式、線形判別式、重回帰式、サポートベクターマシンで作成された式、マハラノビス距離法で作成された式、正準判別分析で作成された式、決定木で作成された式のいずれか１つであること、

を特徴とする請求項１から７のいずれか１つに記載の膵臓癌の評価方法。

[請求項9] 制御部と記憶部とを備え、評価対象における膵臓癌の状態を評価す

る膵臓癌評価装置であって、

前記制御部は、

アミノ酸の濃度値に関する予め取得された前記評価対象のアミノ酸濃度データ、及び、アミノ酸の濃度値が代入される変数を含む予め前記記憶部に記憶された、膵臓癌の状態を評価するための式を用いて、前記式の値を算出することで、前記評価対象における膵臓癌の状態を評価する評価手段

を備え、

前記アミノ酸濃度データには、Ａｓｎ，Ｈｉｓ，Ｔｈｒ，Ａｌａ，Ｃｉｔ，Ａｒｇ，Ｔｙｒ，Ｖａｌ，Ｍｅｔ，Ｌｙｓ，Ｔｒｐ，Ｇｌｙ，Ｐｒｏ，Ｏｒｎ，Ｉｌｅ，Ｌｅｕ，Ｐｈｅ，Ｓｅｒ，ＧｌｎのうちのＮ少なくとも２つのアミノ酸の濃度値が含まれており、

前記式には、Ａｓｎ，Ｈｉｓ，Ｔｈｒ，Ａｌａ，Ｃｉｔ，Ａｒｇ，Ｔｙｒ，Ｖａｌ，Ｍｅｔ，Ｌｙｓ，Ｔｒｐ，Ｇｌｙ，Ｐｒｏ，Ｏｒｎ，Ｉｌｅ，Ｌｅｕ，Ｐｈｅ，Ｓｅｒ，ＧｌｎのうちのＮ少なくとも２つのアミノ酸の濃度値が代入される少なくとも２つの変数が含まれていること、

を特徴とする膵臓癌評価装置。

[請求項10] 制御部と記憶部とを備えた情報処理装置において実行される、評価対象における膵臓癌の状態を評価する膵臓癌評価方法であって、

前記制御部において実行される、

アミノ酸の濃度値に関する予め取得された前記評価対象のアミノ酸濃度データ、及び、アミノ酸の濃度値が代入される変数を含む予め前記記憶部に記憶された、膵臓癌の状態を評価するための式を用いて、前記式の値を算出することで、前記評価対象における膵臓癌の状態を評価する評価ステップ

を含み、

前記アミノ酸濃度データには、Ａｓｎ，Ｈｉｓ，Ｔｈｒ，Ａｌａ，

Ｃｉｔ，Ａｒｇ，Ｔｙｒ，Ｖａｌ，Ｍｅｔ，Ｌｙｓ，Ｔｒｐ，Ｇｌｙ，Ｐｒｏ，Ｏｒｎ，Ｉｌｅ，Ｌｅｕ，Ｐｈｅ，Ｓｅｒ，ＧＩｎのうちの少なくとも２つのアミノ酸の濃度値が含まれており、

前記式には、Ａｓｎ，Ｈｉｓ，Ｔｈｒ，Ａｌａ，Ｃｉｔ，Ａｒｇ，Ｔｙｒ，Ｖａｌ，Ｍｅｔ，Ｌｙｓ，Ｔｒｐ，Ｇｌｙ，Ｐｒｏ，Ｏｒｎ，Ｉｌｅ，Ｌｅｕ，Ｐｈｅ，Ｓｅｒ，ＧＩｎのうちの少なくとも２つのアミノ酸の濃度値が代入される少なくとも２つの変数が含まれていること、

を特徴とする膵臓癌評価方法。

[請求項11] 制御部と記憶部とを備えた情報処理装置において実行させるための、評価対象における膵臓癌の状態を評価する膵臓癌評価プログラムであって、

前記制御部において実行させるための、

アミノ酸の濃度値に関する予め取得された前記評価対象のアミノ酸濃度データ、及び、アミノ酸の濃度値が代入される変数を含む予め前記記憶部に記憶された、膵臓癌の状態を評価するための式を用いて、前記式の値を算出することで、前記評価対象における膵臓癌の状態を評価する評価ステップ

を含み、

前記アミノ酸濃度データには、Ａｓｎ，Ｈｉｓ，Ｔｈｒ，Ａｌａ，Ｃｉｔ，Ａｒｇ，Ｔｙｒ，Ｖａｌ，Ｍｅｔ，Ｌｙｓ，Ｔｒｐ，Ｇｌｙ，Ｐｒｏ，Ｏｒｎ，Ｉｌｅ，Ｌｅｕ，Ｐｈｅ，Ｓｅｒ，ＧＩｎのうちの少なくとも２つのアミノ酸の濃度値が含まれており、

前記式には、Ａｓｎ，Ｈｉｓ，Ｔｈｒ，Ａｌａ，Ｃｉｔ，Ａｒｇ，Ｔｙｒ，Ｖａｌ，Ｍｅｔ，Ｌｙｓ，Ｔｒｐ，Ｇｌｙ，Ｐｒｏ，Ｏｒｎ，Ｉｌｅ，Ｌｅｕ，Ｐｈｅ，Ｓｅｒ，ＧＩｎのうちの少なくとも２つのアミノ酸の濃度値が代入される少なくとも２つの変数が含まれていること、

を特徴とする膵臓癌評価プログラム。

[請求項12] 制御部と記憶部とを備え、評価対象における膵臓癌の状態を評価する膵臓癌評価装置と、制御部を備え、アミノ酸の濃度値に関する前記評価対象のアミノ酸濃度データを提供する情報通信端末装置とを、ネットワークを介して通信可能に接続して構成された膵臓癌評価システムであって、

前記情報通信端末装置の前記制御部は、

前記評価対象の前記アミノ酸濃度データを前記膵臓癌評価装置へ送信するアミノ酸濃度データ送信手段と、

前記膵臓癌評価装置から送信された、評価対象における膵臓癌の状態に関する評価結果を受信する評価結果受信手段と

を備え、

前記膵臓癌評価装置の前記制御部は、

前記情報通信端末装置から送信された前記評価対象の前記アミノ酸濃度データを受信するアミノ酸濃度データ受信手段と、

前記アミノ酸濃度データ受信手段で受信した前記評価対象の前記アミノ酸濃度データ、及び、アミノ酸の濃度値が代入される変数を含む予め前記記憶部に記憶された、膵臓癌の状態を評価するための式を用いて、前記式の値を算出することで、前記評価対象における膵臓癌の状態を評価する評価手段と、

前記評価手段で得られた前記評価結果を前記情報通信端末装置へ送信する評価結果送信手段と、

を備え、

前記アミノ酸濃度データには、Ａｓｎ，Ｈｉｓ，Ｔｈｒ，Ａｌａ，Ｃｉｔ，Ａｒｇ，Ｔｙｒ，Ｖａｌ，Ｍｅｔ，Ｌｙｓ，Ｔｒｐ，Ｇｌｙ，Ｐｒｏ，Ｏｒｎ，Ｉｌｅ，Ｌｅｕ，Ｐｈｅ，Ｓｅｒ，ＧＩｎのうちの少なくとも２つのアミノ酸の濃度値が含まれており、

前記式には、Ａｓｎ，Ｈｉｓ，Ｔｈｒ，Ａｌａ，Ｃｉｔ，Ａｒｇ，

Ｔｙｒ，Ｖａｌ，Ｍｅｔ，Ｌｙｓ，Ｔｒｐ，Ｇｌｙ，Ｐｒｏ，Ｏｒｎ，Ｉｌｅ，Ｌｅｕ，Ｐｈｅ，Ｓｅｒ，Ｇｌｎのうちの少なくとも２つのアミノ酸の濃度値が代入される少なくとも２つの変数が含まれていること、

を特徴とする膵臓癌評価システム。

[請求項13] 評価対象における膵臓癌の状態を評価する膵臓癌評価装置とネットワークを介して通信可能に接続された、制御部を備え、アミノ酸の濃度値に関する前記評価対象のアミノ酸濃度データを提供する情報通信端末装置であって、

前記制御部は、

前記評価対象の前記アミノ酸濃度データを前記膵臓癌評価装置へ送信するアミノ酸濃度データ送信手段と、

前記膵臓癌評価装置から送信された、前記評価対象における膵臓癌の状態に関する評価結果を受信する評価結果受信手段と

を備え、

前記評価結果は、前記膵臓癌評価装置が、前記情報通信端末装置から送信された前記評価対象の前記アミノ酸濃度データを受信し、受信した前記評価対象の前記アミノ酸濃度データ、及び、アミノ酸の濃度値が代入される変数を含む予め前記膵臓癌評価装置に記憶された、膵臓癌の状態を評価するための式を用いて、前記式の値を算出することで、前記評価対象における膵臓癌の状態を評価した結果であり、

前記アミノ酸濃度データには、Ａｓｎ，Ｈｉｓ，Ｔｈｒ，Ａｌａ，Ｃｉｔ，Ａｒｇ，Ｔｙｒ，Ｖａｌ，Ｍｅｔ，Ｌｙｓ，Ｔｒｐ，Ｇｌｙ，Ｐｒｏ，Ｏｒｎ，Ｉｌｅ，Ｌｅｕ，Ｐｈｅ，Ｓｅｒ，Ｇｌｎのうちの少なくとも２つのアミノ酸の濃度値が含まれており、

前記式には、Ａｓｎ，Ｈｉｓ，Ｔｈｒ，Ａｌａ，Ｃｉｔ，Ａｒｇ，Ｔｙｒ，Ｖａｌ，Ｍｅｔ，Ｌｙｓ，Ｔｒｐ，Ｇｌｙ，Ｐｒｏ，Ｏｒｎ，Ｉｌｅ，Ｌｅｕ，Ｐｈｅ，Ｓｅｒ，Ｇｌｎのうちの少なくとも２つ

のアミノ酸の濃度値が代入される少なくとも２つの変数が含まれていること、

を特徴とする情報通信端末装置。

[請求項14] アミノ酸の濃度値に関する評価対象のアミノ酸濃度データを提供する情報通信端末装置とネットワークを介して通信可能に接続された、制御部と記憶部とを備え、前記評価対象における膵臓癌の状態を評価する膵臓癌評価装置であって、

前記制御部は、

前記情報通信端末装置から送信された前記評価対象の前記アミノ酸濃度データを受信するアミノ酸濃度データ受信手段と、

前記アミノ酸濃度データ受信手段で受信した前記評価対象の前記アミノ酸濃度データ、及び、アミノ酸の濃度値が代入される変数を含む予め前記記憶部に記憶された、膵臓癌の状態を評価するための式を用いて、前記式の値を算出することで、前記評価対象における膵臓癌の状態を評価する評価手段と、

前記評価手段で得られた、前記評価対象における膵臓癌の状態に関する評価結果を前記情報通信端末装置へ送信する評価結果送信手段と、

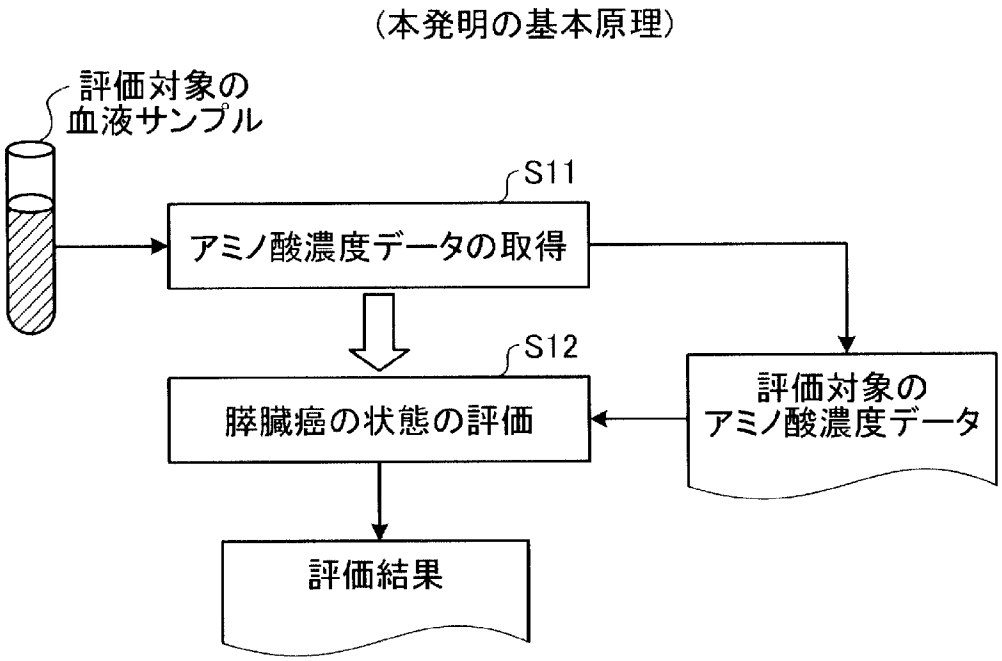
を備え、

前記アミノ酸濃度データには、Ａｓｎ，Ｈｉｓ，Ｔｈｒ，Ａｌａ，Ｃｉｔ，Ａｒｇ，Ｔｙｒ，Ｖａｌ，Ｍｅｔ，Ｌｙｓ，Ｔｒｐ，Ｇｌｙ，Ｐｒｏ，Ｏｒｎ，Ｉｌｅ，Ｌｅｕ，Ｐｈｅ，Ｓｅｒ，ＧｌｎのうちのＮ少なくとも２つのアミノ酸の濃度値が含まれており、

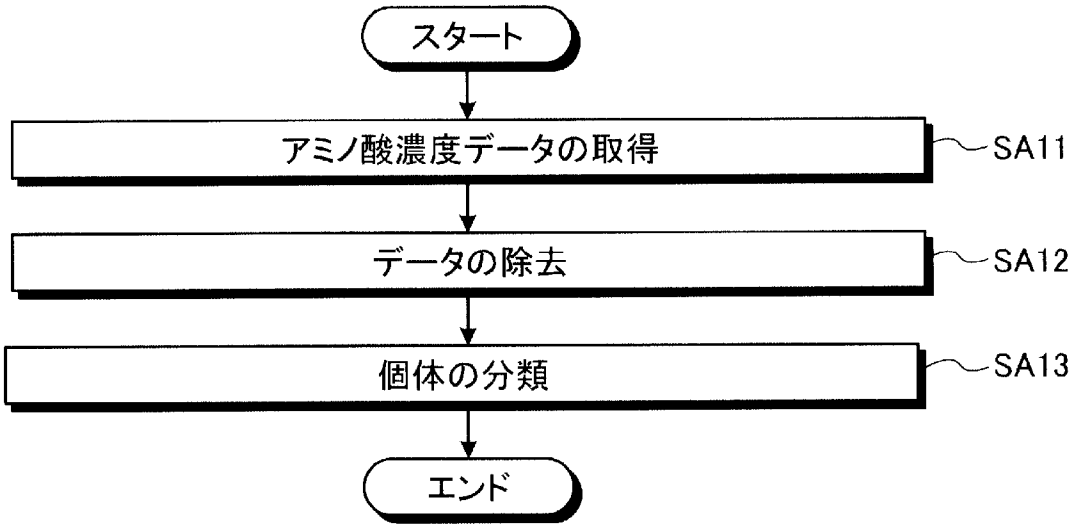
前記式には、Ａｓｎ，Ｈｉｓ，Ｔｈｒ，Ａｌａ，Ｃｉｔ，Ａｒｇ，Ｔｙｒ，Ｖａｌ，Ｍｅｔ，Ｌｙｓ，Ｔｒｐ，Ｇｌｙ，Ｐｒｏ，Ｏｒｎ，Ｉｌｅ，Ｌｅｕ，Ｐｈｅ，Ｓｅｒ，ＧｌｎのうちのＮ少なくとも２つのアミノ酸の濃度値が代入される少なくとも２つの変数が含まれていること、

を特徴とする膵臓癌評価装置。

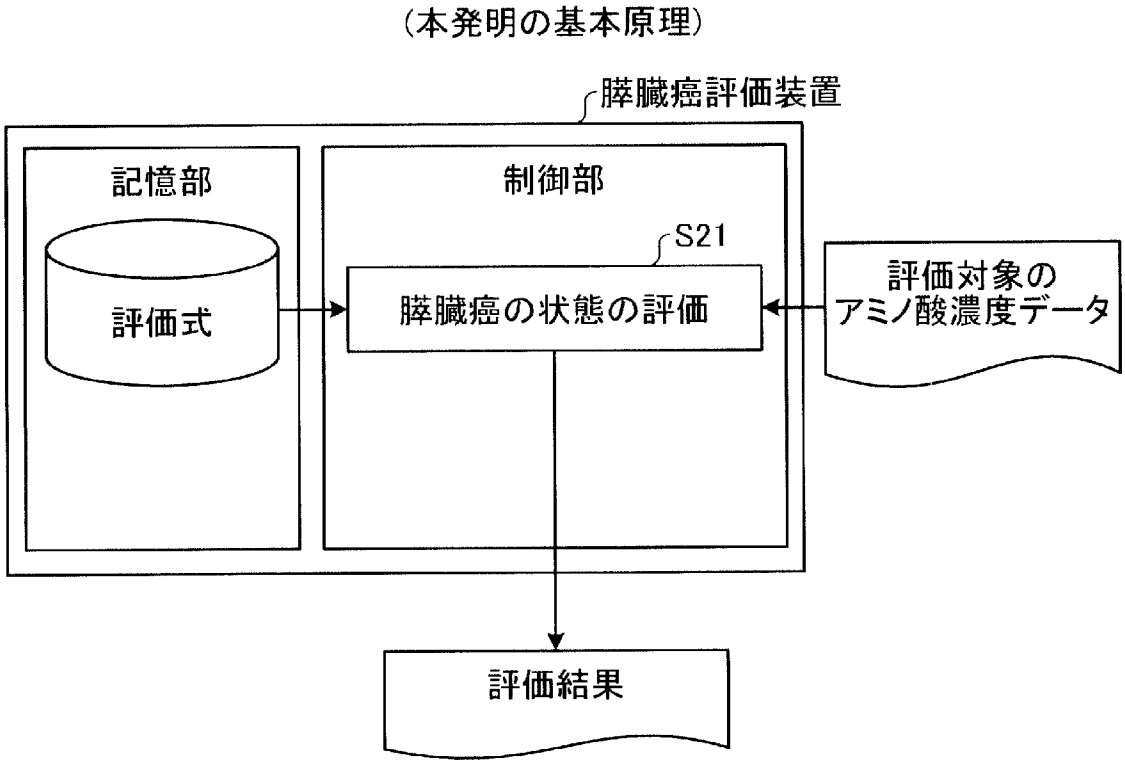
[図1]


(本発明の基本原理)
評価対象の
血液サンプル
S11
アミノ酸濃度データの取得
S12
膵臓癌の状態の評価
評価対象の
アミノ酸濃度データ
評価結果

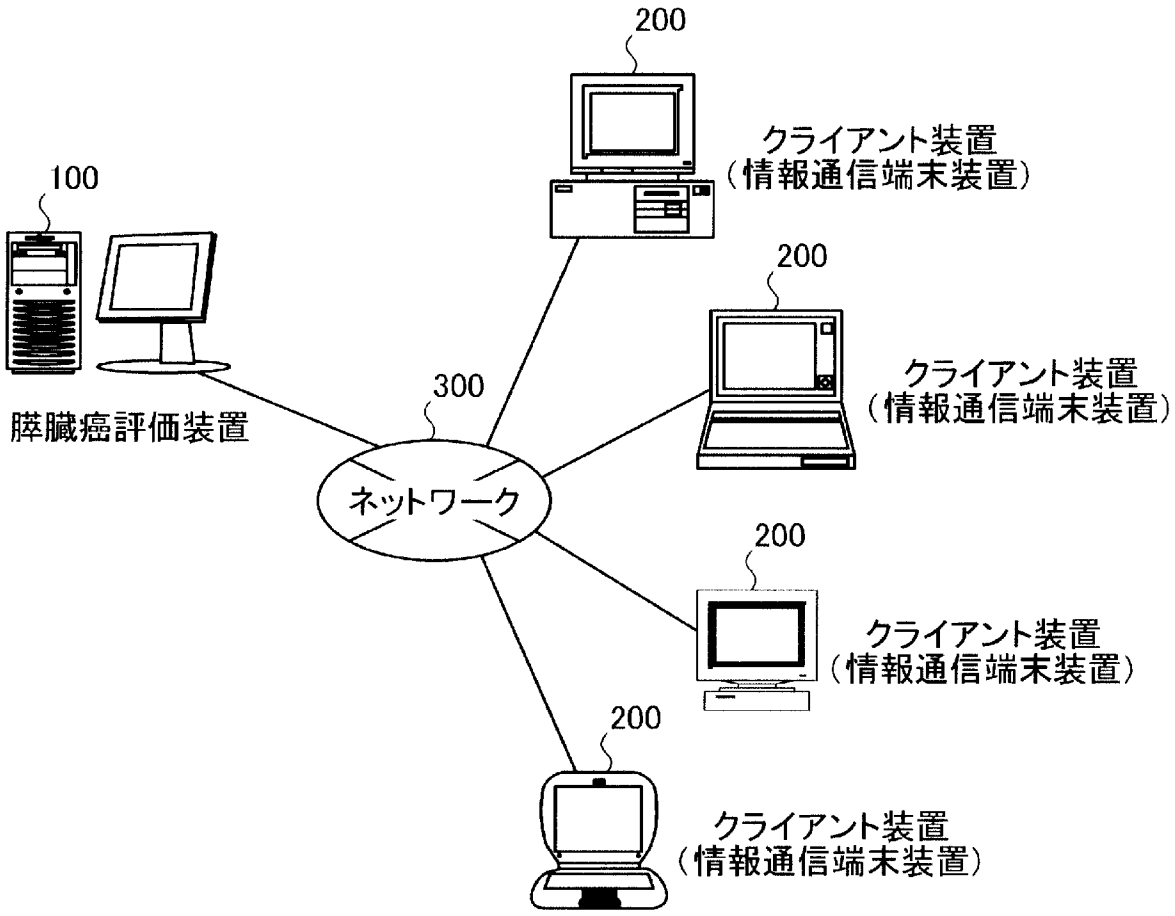
[図2]


スタート
アミノ酸濃度データの取得
SA11
データの除去
SA12
個体の分類
SA13
エンド

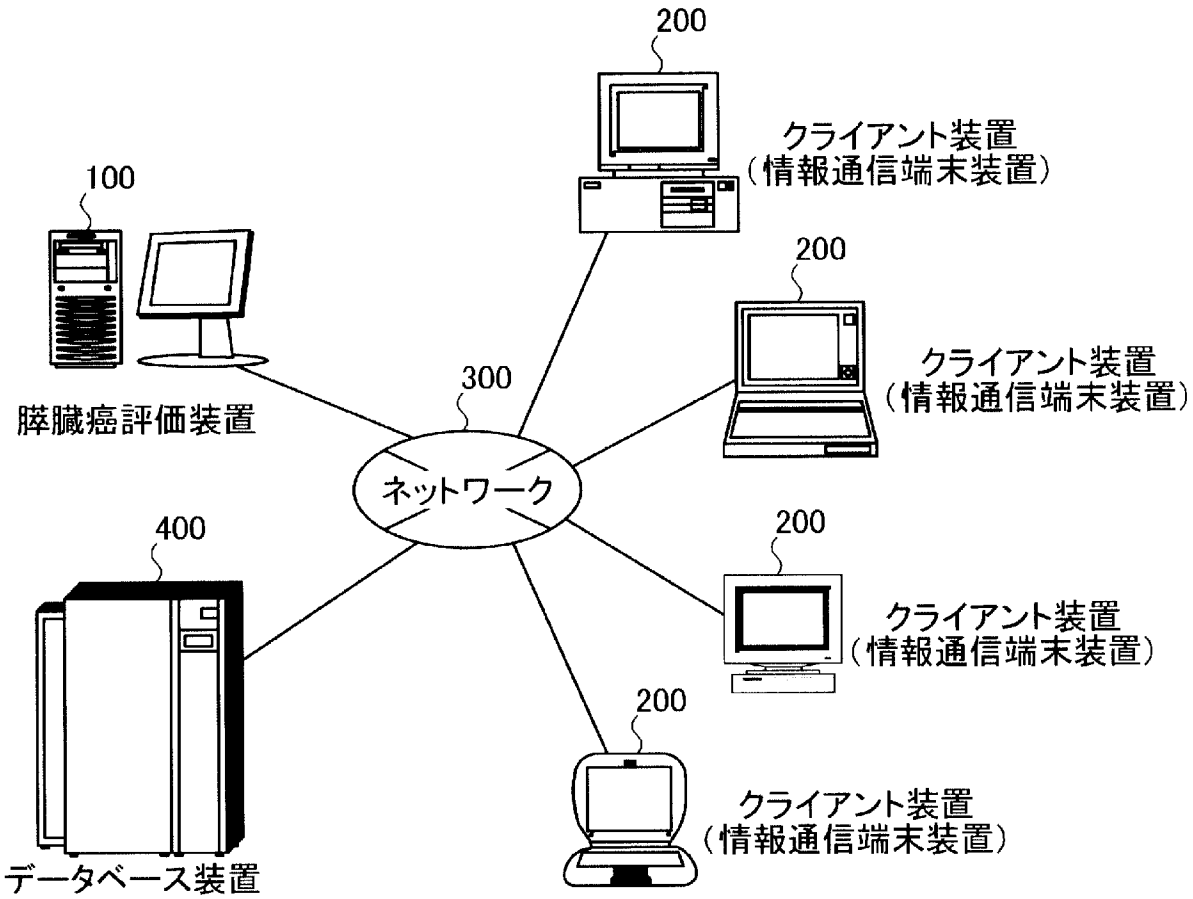
[図3]


(本発明の基本原理)
膵臓癌評価装置
記憶部
評価式
制御部
S21
膵臓癌の状態の評価
評価対象の
アミノ酸濃度データ
評価結果

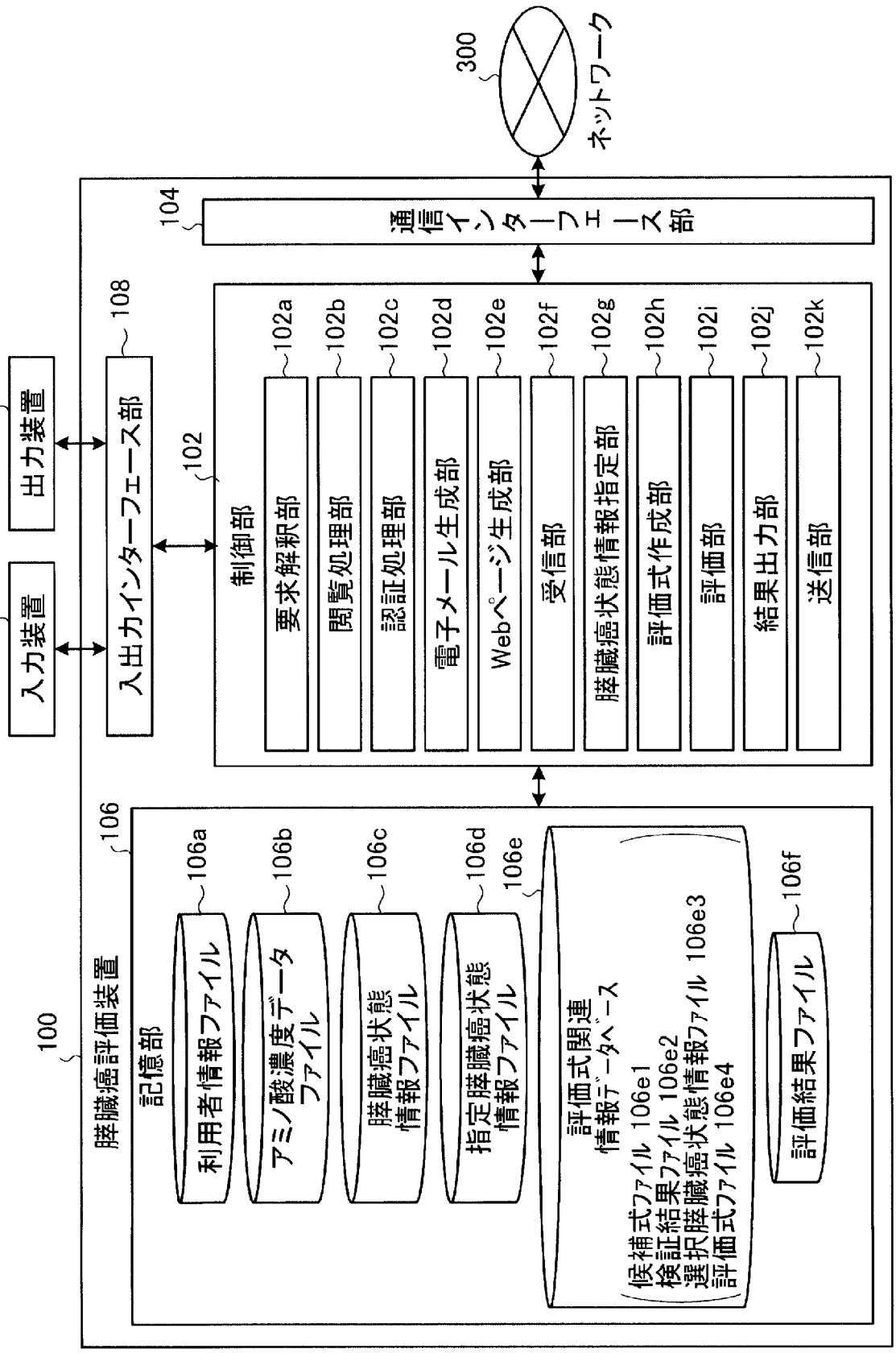
[図4]


200
クライアント装置
（情報通信端末装置）
100
200
膵臓癌評価装置
300
クライアント装置
（情報通信端末装置）
ネットワーク
200
クライアント装置
（情報通信端末装置）
200
クライアント装置
（情報通信端末装置）

[図5]


200
クライアント装置
(情報通信端末装置)
100
200
膵臓癌評価装置
300
クライアント装置
(情報通信端末装置)
ネットワーク
400
200
クライアント装置
(情報通信端末装置)
200
クライアント装置
(情報通信端末装置)
データベース装置

[図6]


300
ネットワーク
104
通信インターフェース部
膵臓癌評価装置
100
制御部
102
要求解釈部
102a
閲覧処理部
102b
認証処理部
102c
電子メール生成部
102d
Webページ生成部
102e
受信部
102f
膵臓癌状態情報指定部
102g
評価式作成部
102h
評価部
102i
結果出力部
102j
送信部
102k
108
入出力インターフェース部
112
入力装置
114
出力装置
106
記憶部
利用者情報ファイル
106a
アミノ酸濃度データファイル
106b
膵臓癌状態情報ファイル
106c
指定膵臓癌状態情報ファイル
106d
評価式関連情報データベース
106e
候補式ファイル 106e1
検証結果ファイル 106e2
選択膵臓癌状態情報ファイル 106e3
評価式ファイル 106e4
評価結果ファイル
106f

[図7]

106a

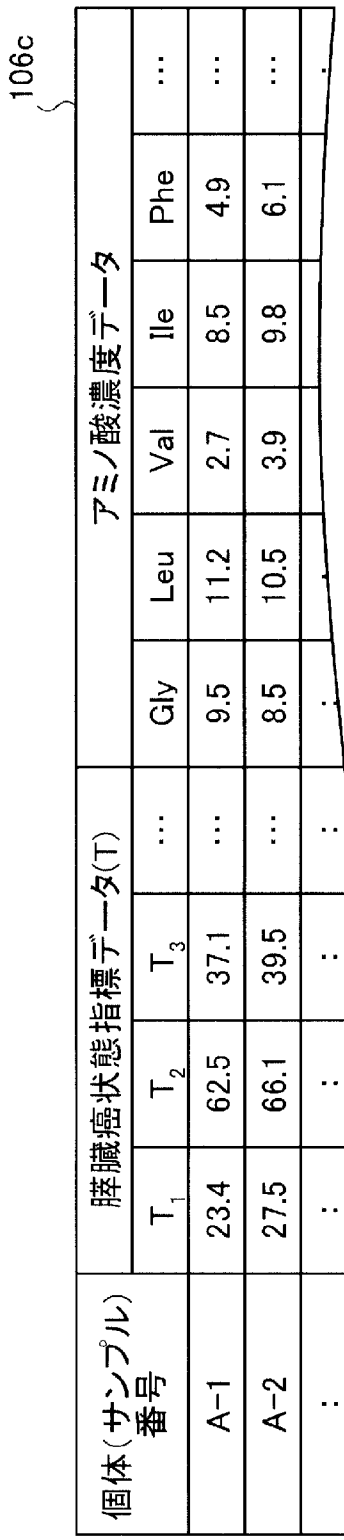
利用者ID	利用者パスワード	氏名	所属先ID	部門ID	部門名	電子メールアドレス	・・・
・	・	・	・	・	・	・	・
・	・	・	・	・	・	・	・
・	・	・	・	・	・	・	・

[図8]

106b

個体(サンプル)番号	アミノ酸濃度データ					
	Gly	Leu	Val	Ile	Phe	・・・
U-1	9.5	11.2	2.7	8.5	4.9	・・・
U-2	8.5	10.5	3.9	9.8	6.1	・・・
・	・	・	・	・	・	・
・	・	・	・	・	・	・
・	・	・	・	・	・	・

[図9]



個体（サンプル）番号	膵臓癌状態指標データ(T)			…	アミノ酸濃度データ					
	T_1	T_2	T_3	…	Gly	Leu	Val	Ile	Phe	…
A-1	23.4	62.5	37.1	…	9.5	11.2	2.7	8.5	4.9	…
A-2	27.5	66.1	39.5	…	8.5	10.5	3.9	9.8	6.1	…
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

[図10]

106d

個体(サンプル)番号	膵臓癌状態指標データ(T)	アミノ酸濃度データ			
	T_2	Gly	Leu	Phe	…
A-1	62.5	9.5	11.2	4.9	…
A-2	66.1	8.5	10.5	6.1	…
⋮	⋮	⋮	⋮	⋮	⋮

[図11]

106e1

ランク	候補式
1	F_1(Gly,Leu,Phe,…)
2	F_2(Gly,Leu,Phe,…)
3	F_3(Gly,Leu,Phe,…)
⋮	⋮

[図12]

106e2

ランク	候補式	検証結果
1	F_k(Gly,Leu,Phe,…)	1.22
2	F_m(Gly,Leu,Phe,…)	2.28
3	F_l(Gly,Leu,Phe,…)	2.95
⋮	⋮	⋮

[図13]

106e3

個体(サンプル)番号	膵臓癌状態指標データ(T)	アミノ酸濃度データ		
	T_2	Leu	Phe	…
A-1	62.5	11.2	4.9	…
A-2	66.1	10.5	6.1	…
⋮	⋮	⋮	⋮	⋮

[図14]

106e4

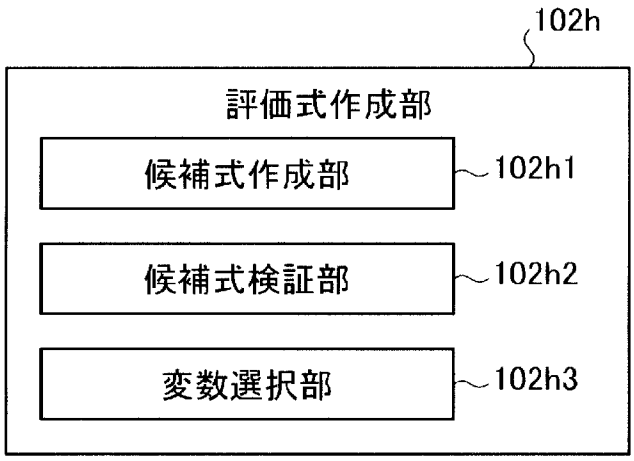
ランク	評価式	閾値	検証結果
1	F_p(Phe,…)	0.23	0.62
2	F_p(Gly,Leu,Phe)	−2.12	1.02
3	F_k(Gly,Leu,Phe,…)	1.23	1.22
⋮	⋮	⋮	⋮

[図15]

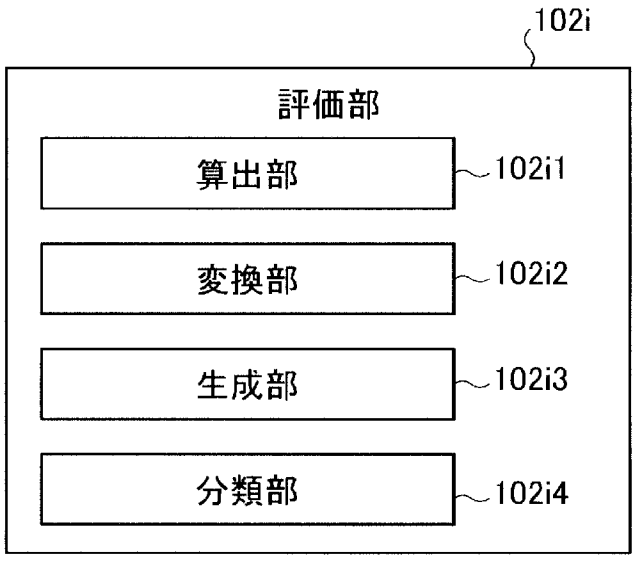
106f

個体(サンプル)番号	アミノ酸濃度データ				評価結果
	Gly	Leu	Phe	…	
U−1	9.5	11.2	4.9	…	
U−2	8.5	10.5	6.1	…	
⋮	⋮	⋮	⋮	⋮	⋮

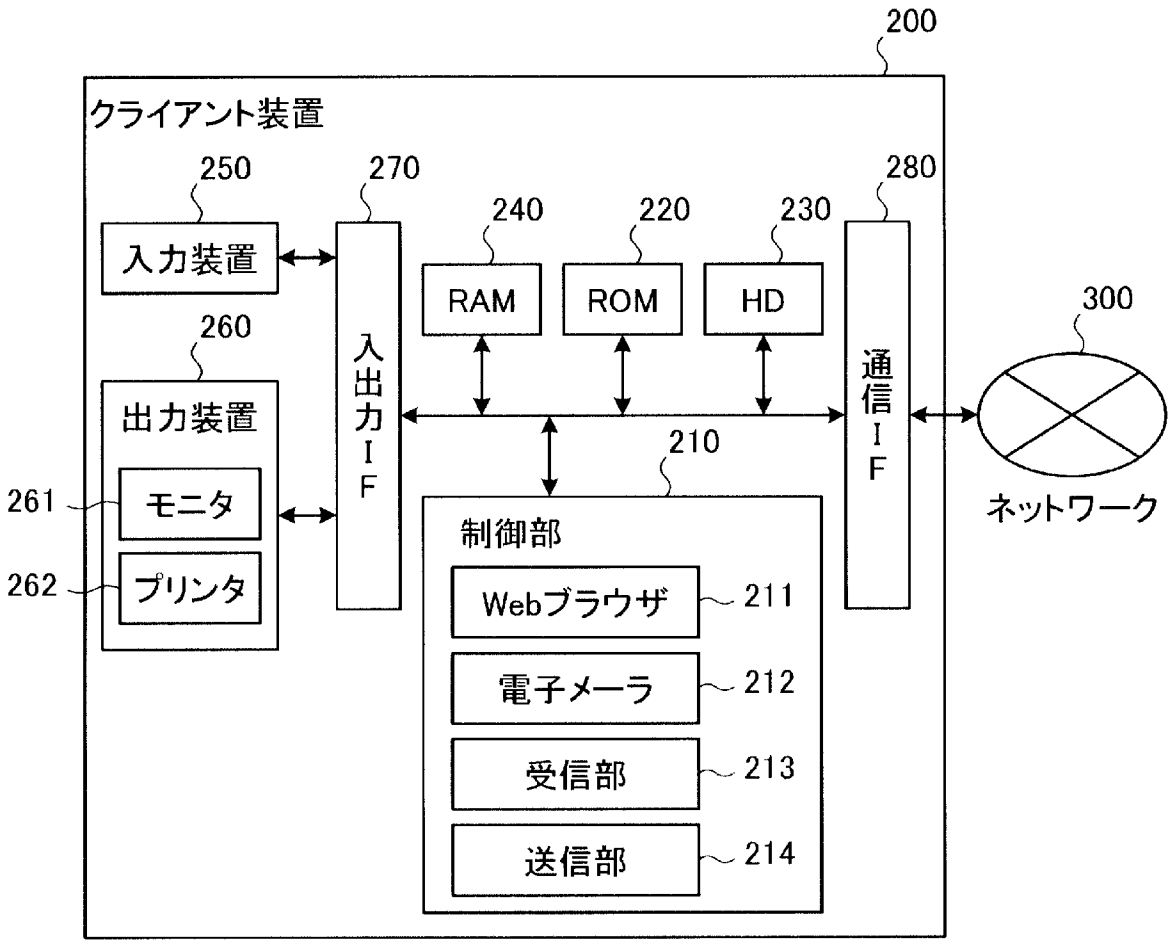
[図16]


102h
評価式作成部
候補式作成部
102h1
候補式検証部
102h2
変数選択部
102h3

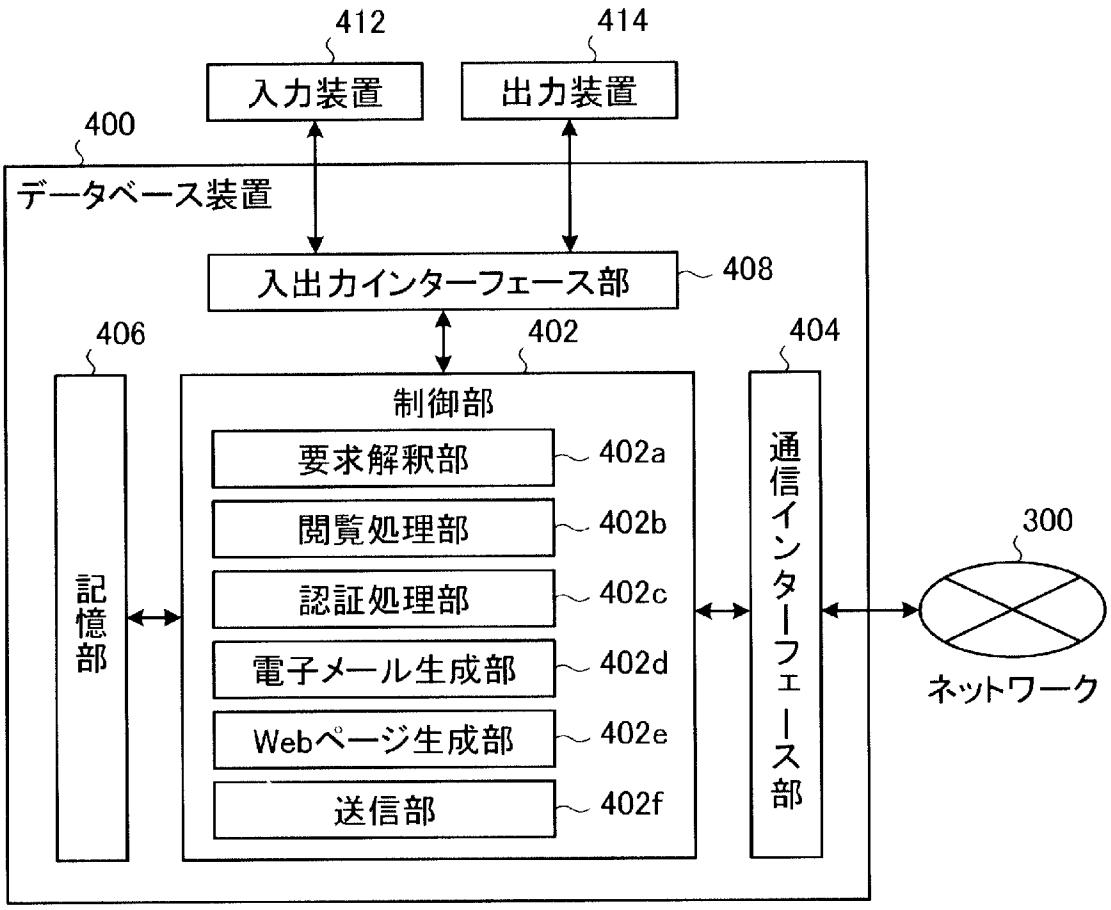
[図17]


102i
評価部
算出部
102i1
変換部
102i2
生成部
102i3
分類部
102i4

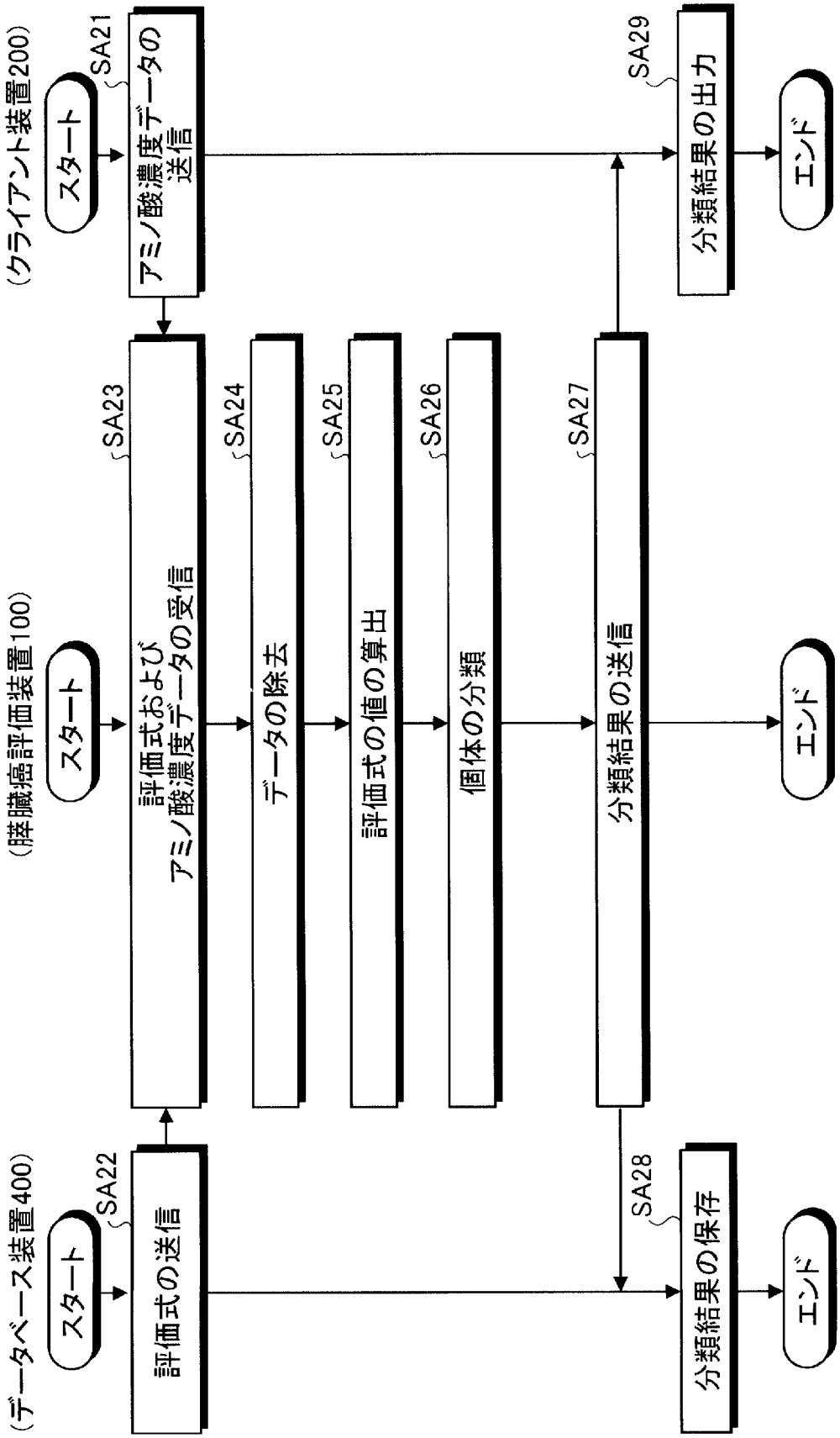
[図18]


200
クライアント装置
250
入力装置
260
出力装置
261
モニタ
262
プリンタ
270
入出力IF
240
RAM
220
ROM
230
HD
280
通信IF
300
ネットワーク
210
制御部
Webブラウザ
211
電子メーラ
212
受信部
213
送信部
214

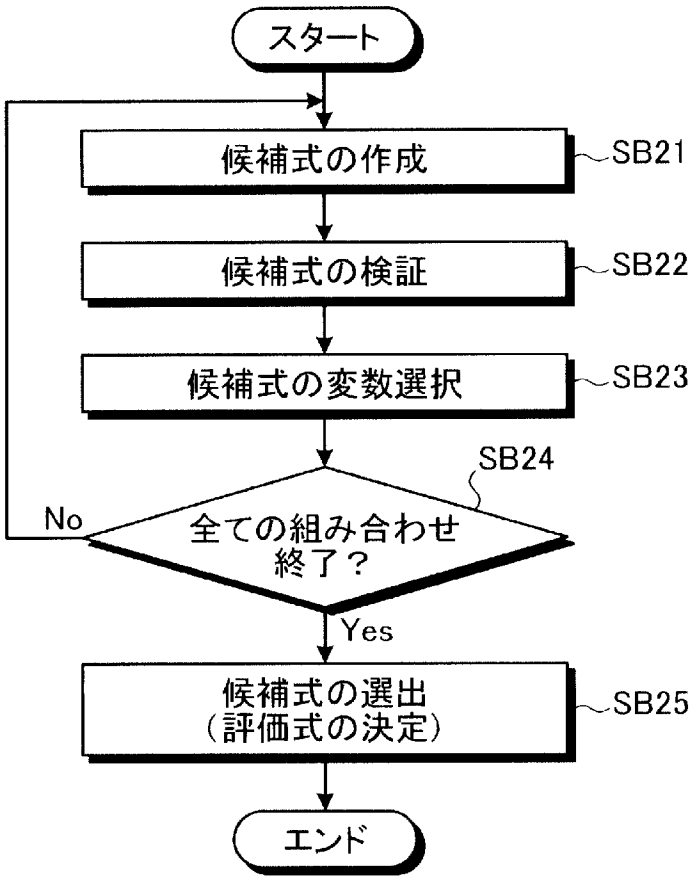
[図19]


412
414
入力装置
出力装置
400
データベース装置
入出力インターフェース部
408
406
402
404
制御部
要求解釈部
402a
閲覧処理部
402b
認証処理部
402c
電子メール生成部
402d
Webページ生成部
402e
送信部
402f
記憶部
通信インターフェース部
300
ネットワーク

[図20]


(クライアント装置200)
スタート
SA21
アミノ酸濃度データの送信
SA29
分類結果の出力
エンド
(膵臓癌評価装置100)
スタート
SA23
評価式およびアミノ酸濃度データの受信
SA24
データの除去
SA25
評価式の値の算出
SA26
個体の分類
SA27
分類結果の送信
エンド
(データベース装置400)
スタート
SA22
評価式の送信
SA28
分類結果の保存
エンド

[図21]


スタート
候補式の作成
SB21
候補式の検証
SB22
候補式の変数選択
SB23
SB24
No
全ての組み合わせ
終了？
Yes
候補式の選出
（評価式の決定）
SB25
エンド

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2013/081981

A. CLASSIFICATION OF SUBJECT MATTER
G01N33/68(2006.01)i

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
G01N33/68

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2014
Kokai Jitsuyo Shinan Koho 1971-2014 Toroku Jitsuyo Shinan Koho 1994-2014

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
JSTPlus/JMEDPlus/JST7580(JDreamIII)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 2006/098192 A1 (Ajinomoto Co., Inc.), 21 September 2006 (21.09.2006), claims & US 2008/0147368 A1 & EP 1862797 A1	1-14
Y	Dong OuYang et al., Metabolomic profiling of serum from human pancreatic cancer patients using 1H NMR spectroscopy and principal component analysis, Appl.Biochem.Biotechnol. PartA, 2011.09, Vol.165,No.1, P.148-154	1-14
Y	Masaru YOSHIDA et al., "The challenge of disease diagnosis by metabolomics", Fukuoka acta medica, 25 November 2010 (25.11.2010), vol.101, no.11, pages 231 to 237	1-14

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:
"A" document defining the general state of the art which is not considered to be of particular relevance
"E" earlier application or patent but published on or after the international filing date
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
"O" document referring to an oral disclosure, use, exhibition or other means
"P" document published prior to the international filing date but later than the priority date claimed
"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
25 February, 2014 (25.02.14)	04 March, 2014 (04.03.14)
Name and mailing address of the ISA/ Japanese Patent Office Facsimile No.	Authorized officer Telephone No.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2013/081981

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 2008/075664 A1 (Ajinomoto Co., Inc.), 26 June 2008 (26.06.2008), claims & JP 2006-197464 A	1-14
A	WO 2008/016111 A1 (Ajinomoto Co., Inc.), 07 February 2008 (07.02.2008), claims & US 2010/0017144 A1 & EP 2081027 A1	1-14
A	Prabhjit Kaur et al., Metabolomic profiling for biomarker discovery in pancreatic cancer, International Journal of Mass Spectrometry, Vol.310, 2012.01.15, P.44-51	1-14
A	Yvonne LJ. Vissers et al., Plasma arginine concentrations are reduced in cancer patients: evidence for arginine deficiency?, American Journal of Clinical Nutrition, 2005.05, Vol.81, No.5, P.1142-1146	1-14

国際調査報告

国際出願番号　ＰＣＴ／ＪＰ２０１３／０８１９８１

Ａ．　発明の属する分野の分類（国際特許分類（ＩＰＣ））

Int.Cl.　G01N33/68(2006.01)i

Ｂ．　調査を行った分野

調査を行った最小限資料（国際特許分類（ＩＰＣ））

Int.Cl.　G01N33/68

最小限資料以外の資料で調査を行った分野に含まれるもの

日本国実用新案公報	１９２２－１９９６年
日本国公開実用新案公報	１９７１－２０１４年
日本国実用新案登録公報	１９９６－２０１４年
日本国登録実用新案公報	１９９４－２０１４年

国際調査で使用した電子データベース（データベースの名称、調査に使用した用語）

JSTPlus/JMEDPlus/JST7580(JDreamIII)

Ｃ．　関連すると認められる文献

引用文献のカテゴリー＊	引用文献名　及び一部の箇所が関連するときは、その関連する箇所の表示	関連する請求項の番号
Y	WO 2006/098192 A1 (味の素株式会社) 2006.09.21, 請求の範囲 & US 2008/0147368 A1 & EP 1862797 A1	1-14
Y	Dong OuYang et al., Metabolomic profiling of serum from human pancreatic cancer patients using 1H NMR spectroscopy and principal component analysis, Appl.Biochem.Biotechnol.PartA, 2011.09, Vol.165,No.1, P.148-154	1-14

☑　Ｃ欄の続きにも文献が列挙されている。

☐　パテントファミリーに関する別紙を参照。

＊　引用文献のカテゴリー
「Ａ」特に関連のある文献ではなく、一般的技術水準を示すもの
「Ｅ」国際出願日前の出願または特許であるが、国際出願日以後に公表されたもの
「Ｌ」優先権主張に疑義を提起する文献又は他の文献の発行日若しくは他の特別な理由を確立するために引用する文献（理由を付す）
「Ｏ」口頭による開示、使用、展示等に言及する文献
「Ｐ」国際出願日前で、かつ優先権の主張の基礎となる出願の日の後に公表された文献
「Ｔ」国際出願日又は優先日後に公表された文献であって出願と矛盾するものではなく、発明の原理又は理論の理解のために引用するもの
「Ｘ」特に関連のある文献であって、当該文献のみで発明の新規性又は進歩性がないと考えられるもの
「Ｙ」特に関連のある文献であって、当該文献と他の１以上の文献との、当業者にとって自明である組合せによって進歩性がないと考えられるもの
「＆」同一パテントファミリー文献

国際調査を完了した日	国際調査報告の発送日
２５．０２．２０１４	０４．０３．２０１４

国際調査機関の名称及びあて先
日本国特許庁（ＩＳＡ／ＪＰ）
郵便番号１００－８９１５
東京都千代田区霞が関三丁目４番３号

特許庁審査官（権限のある職員）　２Ｊ　３９０６
海野　佳子
電話番号　０３－３５８１－１１０１　内線　３２５２

Ｃ（続き）．　関連すると認められる文献

引用文献のカテゴリー＊	引用文献名　及び一部の箇所が関連するときは、その関連する箇所の表示	関連する請求項の番号
Y	メタボロミクスの疾患診断への試み，吉田優ほか，福岡医学雑誌，2010.11.25，Vol.101,No.11，P.231-237	1-14
A	WO 2008/075664 A1（味の素株式会社）2008.06.26，請求の範囲 & JP 2006-197464 A	1-14
A	WO 2008/016111 A1（味の素株式会社）2008.02.07，請求の範囲 & US 2010/0017144 A1 & EP 2081027 A1	1-14
A	Prabhjit Kaur et al., Metabolomic profiling for biomarker discovery in pancreatic cancer, International Journal of Mass Spectrometry, Vol.310, 2012.01.15, P.44-51	1-14
A	Yvonne LJ. Vissers et al., Plasma arginine concentrations are reduced in cancer patients: evidence for arginine deficiency?, American Journal of Clinical Nutrition, 2005.05, Vol.81,No.5, P.1142-1146	1-14