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(54) Title: CO-CRYSTAL STRUCTURE OF FACTOR D AND ANTI-FACTOR D ANTIBODY

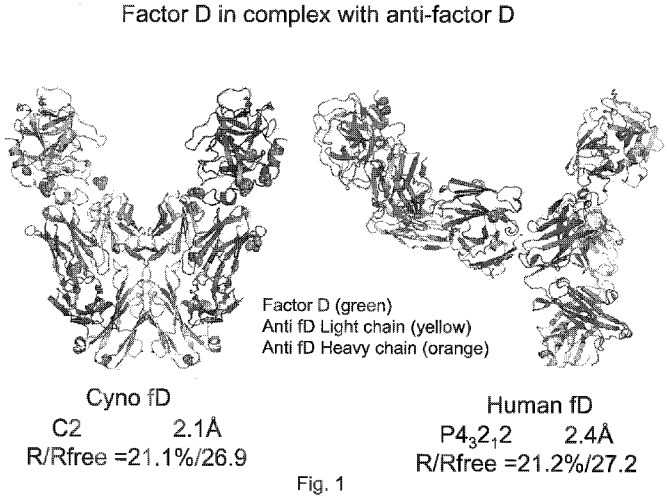

Fig. 1

(57) Abstract: The present invention is directed towards the co-crystal structure of Factor D and an anti-Factor D antibody or an antigen binding fragment thereof.

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— *with sequence listing part of description (Rule 5.2(a))*

CO-CRYSTAL STRUCTURE OF FACTOR D AND ANTI-FACTOR D ANTIBODY

Field of the Invention

The present invention concerns the co-crystal structure of Factor D and an anti-Factor D antibody or an antigen binding fragment thereof.

Background of the Invention

Factor D is a highly specific chymotrypsin-like serine protease that is a rate-limiting enzyme in the activation of the alternative complement pathway. The substrate for Factor D is another alternative pathway serine protease, factor B. Following cleavage by Factor D, factor B converts into the proteolytically active factor Bb and initiates the alternative complement pathway. Increased activation of the alternative complement pathway has been found in drusen. Drusen are cytotoxic complement-containing deposits present on the Bruch's membrane, which are associated with the development of age-related macular degeneration (AMD). A role of alternative pathway complement activation in AMD has further been supported by genetic analysis, showing that a mutation in factor H, a negative regulator of alternative complement pathway activation, is strongly correlated with increased risk for developing AMD.

Anti-Factor D antibodies are disclosed in U.S. Patent Publication Nos. 20080118506, published May 22, 2008; 20090181017, published July 16, 2009; and 20090269338, published October 29, 2009. Anti-Factor D antibodies find utility in the prevention and treatment of diseases and disorders associated with excessive or uncontrolled complement activation, and are useful for diagnostics, prophylaxis and treatment of disease.

Summary of the Invention

The instant disclosure presents the crystal structure of human and cynomolgous Factor D in complex with an anti-Factor D antibody fragment. The invention also provides information about the residues on human and cynomolgous Factor D that interact with the light- and heavy chains of the anti Factor D antibody Fab region.

In one aspect, the invention concerns a crystal formed by a native sequence Factor D polypeptide or a functional fragment or conservative amino acid substitution variant thereof.

In one embodiment, the native sequence Factor D polypeptide is human or cyno Factor D.

In another embodiment, the native sequence Factor D polypeptide is human Factor D of SEQ ID NO: 1.

In yet another embodiment, the crystal of human Factor D is characterized by unit cell parameters approximately equal to the following: cell dimensions a=132.048; b=132.048; c=180.288; space group $P4_32_12$, crystal constant: 2.4Å, and R/Rfree=21.2%/27.2.

In a further embodiment, the native sequence Factor D polypeptide is cyno Factor D of SEQ ID NO: 2.

In a still further embodiment, the crystal of cyno Factor D is characterized by unit cell parameters approximately equal to the following: a=182.205; b=80.673; c=142.575, space group C2, crystal constant: 2.1Å; and R/Rfree=21.1%/26.9.

In another aspect, the invention concerns a Factor D crystal with the structural coordinates shown in Appendices 1A and 1B.

In yet another aspect, the invention concerns a composition comprising any of the foregoing crystals.

In a different aspect, the invention concerns a crystallizable composition comprising a Factor D polypeptide complexed with an anti-Factor D antibody or an antigen binding fragment of said antibody.

In one embodiment, in the cystallizable composition the anti-Factor D antibody is a monoclonal antibody.

In another embodiment, the fragment is a Fab fragment.

In yet another embodiment, in the crystallizable composition the Factor D polypeptide is human Factor D of SEQ ID NO: 1.

In a further embodiment, in the crystallizable composition the Factor D polypeptide is cyno Factor D of SEQ ID NO: 2.

In a still further embodiment, the Factor D polypeptide comprises a catalytic triad.

In a further aspect, the invention concerns a crystal comprising a Factor D polypeptide complexed with an anti-Factor D antibody or an antigen binding fragment thereof.

In one embodiment, the antibody is a monoclonal antibody.

In another embodiment, the fragment is a Fab fragment.

In yet another embodiment, the Factor D polypeptide is human Factor D of SEQ ID NO: 1.

In a further embodiment, the Factor D polypeptide is cyno Factor D of SEQ ID NO: 2.

In a still further embodiment, the Factor D polypeptide comprises a catalytic triad.

In another embodiment, in the human Factor D polypeptide of SEQ ID NO: 1, or antigen binding fragment thereof, one or more of amino acid residues D131, V132, P134, D165, R166,

A167, T168, N170, R171, R172, T173, D176, G177, I179, E181, R222, and K223 participate in complexing with the anti-Factor D antibody.

In yet another embodiment, in the human Factor D polypeptide of SEQ ID NO: 1, or antigen binding fragment thereof, all of amino acid residues D131, V132, P134, D165, R166, A167, T168, N170, R171, R172, T173, D176, G177, I179, E181, R222, and K223 participate in complexing with the anti-Factor D antibody.

In a different embodiment, in the human Factor D polypeptide of SEQ ID NO: 1, or antigen binding fragment thereof, amino acid residue R172 forms hydrogen bonds with the heavy and light chains of the anti-Factor D antibody of antigen binding fragment thereof.

In a different aspect, the invention concerns a computer for producing a three-dimensional representation of: a molecular complex comprising a binding site defined by structure coordinates of amino acid residues D131, V132, P134, D165, R166, A167, T168, N170, R171, R172, T173, D176, G177, I179, E181, R222, and K223 of human Factor D of SEQ ID NO: 1, wherein the computer comprises: (i) a machine-readable data storage medium comprising a data storage material encoded with machine-readable data, wherein said data comprises the structure coordinates of amino acid residues D131, V132, P134, D165, R166, A167, T168, N170, R171, R172, T173, D176, G177, I179, E181, R222, and K223 of human Factor D of SEQ ID NO: 1, and (ii) instructions for processing the machine-readable data into said three-dimensional representation.

In one embodiment, the computer further comprises a display for displaying said structure coordinates.

In another aspect, the invention concerns a method for evaluating the potential of a chemical entity to associate with a molecular complex comprising a binding site defined by structure coordinates of amino acid residues D131, V132, P134, D165, R166, A167, T168, N170, R171, R172, T173, D176, G177, I179, E181, R222, and K223 of human Factor D of SEQ ID NO: 1, comprising the steps of: (i) employing computational means to perform a fitting operation between the chemical entity and such binding site of the molecular complex; and (ii) analyzing the results of the fitting operation to quantify the association between the chemical entity and said binding site.

In one embodiment, the chemical entity is an antibody or an antigen binding fragment thereof, or a peptide mimetic or small molecule mimetic of the antibody or antibody fragment.

In another embodiment, the antibody, or antigen binding fragment thereof, forms hydrogen bonds with one or more of the listed residues.

In yet another embodiment, the antibody, or antigen binding fragment thereof, forms hydrogen bonds with amino acid residue R172 of human Factor D of SEQ ID NO: 1.

In a further aspect, the invention concerns chemical entities, such as antibodies, antibody fragments, peptide and small molecule mimetics identifiable or identified by the claimed methods.

In a still further aspect, the invention concerns a computer for determining at least a portion of the structure coordinates corresponding to an X-ray diffraction pattern of a molecular complex, wherein said computer comprises: a) a machine-readable data storage medium comprising a data storage material encoded with machine-readable data, wherein said data comprises at least a portion of the structure coordinates according Figures 6 and 7 or Appendix 1A or 1B; b) a machine-readable data storage medium comprising a data storage material encoded with machine-readable data, wherein said data comprises an X-ray diffraction pattern of said molecular complex; c) a working memory for storing instructions for processing said machine-readable data of a) and b); d) a central processing unit coupled to said working memory and to said machine-readable data of a) and b) for performing a Fourier transform of the machine readable data of (a) and for processing said machine readable data of (b) into structure coordinates; and e) a display coupled to said central processing unit for displaying said structure coordinates of said molecular complex.

Brief Description of the Drawings

Fig. 1. Crystal structure of human and cynomolgous Factor D (both in green) in complex with an anti Factor D Fab fragment (orange: heavy chain, yellow: light chain).

Fig. 2. Crystal structure of human and cynomolgous Factor D (in green) in complex with anti Factor D antibody Fab fragment (orange: heavy chain, yellow: light chain). Superposition is based on fD (the two respective molecules from each of the asymmetric units). This illustrates how similar the two cyno complexes are to each other and how similar the 2 human complexes are to each other.

Fig. 3. Superposition of all four Factor D:Fab complexes (two times cynomolgous (blue) and two times human (green). All structures are very similar with the exception of one area. A circle in the right figure marks were the cynomolgous and human Factor D structures slightly diverge.

Fig. 4. (a) Superposition of the 4 Factor D:Fab complexes (two times cynomolgous (blue) and two times human (green). The binding interface of all structures is identical. The

histidine that forms part of the active site (circle in right figure) is in different conformations (human canonical, cyno inactive).

Fig. 5. Short-list of residues on Factor D (human) that interact with residues on the anti-Factor D antibody molecule.

Figs. 6A and B. Residues on Factor D that interact with the light- and heavy chains of the anti Factor D Fab. Indicated in red are residues on the Fab heavy (H) and light (L) chain that form multiple hydrogen bonds with the key residue ARG-172 on human Factor D. 3 asterics ("***") indicates that the OH forms a hydrogen bond.

The figures show the distance of every atom of Factor D (labeled as chain A) that is closer than 4.5Å to any atoms of the Fab (labeled as chains L and H for light and heavy chains). For example:

Asp 131A OD2 ... TYR 54H CE1 ... 3.34
... TYR 54H CZ ... 3.49
... TYR 54H OH ... 2.78 ***

means that the OD2 atom of Asp 131 in Factor D is close to 3 atoms of the Fab fragment. These three atoms are the

CE1 atom of Tyr 54 in the heavy chain (distance 3.34)

CZ atom of Tyr 54,

and the hydroxyl group of that tyrosine, with which Asp 131 of Factor D forms a hydrogen bond.

Fig. 7A. Key residue ARG-172 on human Factor D can potentially form 6 or more hydrogen``1-bonds with heavy- and light-chain residues on the antibody.

Fig. 7B. Anti-Factor D Fab binds distant from the catalytic triad.

Fig. 8. Amino acid and nucleotide sequences of human Factor D (SEQ ID NOs: 1 and 3).

Fig. 9. Amino acid and nucleotide sequences of cyno Factor D (SEQ ID NOs: 2 and 4).

Fig. 10 depicts the amino acid sequences of the variable heavy chain and the variable light chain for each humanized antibody clone #56, #111, #250, and #416 (SEQ ID NOs: 5, 6, 7 and 8, respectively).

Fig. 11 shows the nucleotide sequence (SEQ ID NO: 9) of the light chain of humanized anti-Factor D Fab 238. The nucleotide sequence encodes for the light chain of humanized anti-Factor D Fab 238 with the start and stop codons shown in bold and underlined. The codon corresponding to the first amino acid in Fig. 11 (SEQ ID NO: 10) is bold and italicized.

Fig. 12 shows the amino acid sequence (SEQ ID NO: 10) of the light chain for humanized anti-Factor D Fab 238. The amino acid sequence lacks the N-terminus signal sequence of the polypeptide encoded by SEQ ID NO: 9 shown in Fig. 11. The HVR sequences are bold and italicized. Variable regions are regions not underlined while first constant domain CL1 is underlined. Framework (FR) regions and HVR regions are shown.

Fig. 13 shows the nucleotide sequence (SEQ ID NO: 18) of the heavy chain of humanized anti-Factor D Fab 238. The nucleotide sequence encodes for the heavy chain of humanized anti-Factor D Fab 238 with the start and stop codon shown in bold and underlined. The codon corresponding to the first amino acid in Figure 14 (SEQ ID NO: 19) is bold and italicized.

Fig. 14 shows the amino acid sequence (SEQ ID NO: 19) of the heavy chain for humanized anti-Factor D Fab 238. The amino acid sequence lacks the N-terminus signal sequence of the polypeptide encoded by SEQ ID NO: 18 shown in Figure 13. The HVR sequences are bold and italicized. Variable regions are regions not underlined while first constant domain CH1 is underlined. Framework (FR) regions and HVR regions are shown.

Fig. 15 shows the nucleotide sequence (SEQ ID NO: 28) of the light chain of humanized anti-Factor D Fab 238-1. The nucleotide sequence encodes for the light chain of humanized anti-Factor D Fab 238-1 with the start and stop codon shown in bold and underlined. The codon corresponding to the first amino acid in FIG. 16 (SEQ ID NO: 29) is bold and italicized.

Fig. 16 shows the amino acid sequence (SEQ ID NO 29) of the light chain for humanized anti-Factor D Fab 238-1. The amino acid sequence lacks the N-terminus signal sequence of the polypeptide encoded by SEQ ID NO: 28 shown in FIG. 15. The HVR sequences are bold and italicized. Variable regions are regions not underlined while first constant domain CL1 is underlined. Framework (FR) regions and HVR regions are shown.

Fig. 17 shows the nucleotide sequence (SEQ ID NO: 30) of the heavy chain of humanized anti-Factor D Fab 238-1. The nucleotide sequence encodes for the heavy chain of

humanized anti-Factor D Fab 238-1 with the start and stop codon in bold and underlined. The codon corresponding to the first amino acid in FIG. 18 (SEQ ID NO: 31) is bold and italicized.

Fig. 18 shows the amino acid sequence (SEQ ID NO: 31) of the heavy chain for humanized anti-Factor D Fab 238-1. The amino acid sequence lacks the N-terminus signal sequence of the polypeptide encoded by SEQ ID NO: 30 shown in Figure 18. The HVR sequences are bold and italicized. Variable regions are regions not underlined while first constant domain CH1 is underlined. Framework (FR) regions and HVR regions are shown.

Fig. 19 shows the amino acid sequence of the light chain of anti-Factor D Fab 238-2 (SEQ ID NO: 40).

Fig. 20 shows the amino acid sequence of the heavy chain of anti-Factor D Fab 238-2 (SEQ ID NO: 41).

Fig. 21. Factor B cleavage is blocked by anti-Factor D antibody but not by 8E2 (fluid-phase assay)

Figs.22, 23. Factor D (S208A) binds to C3bB pro-convertase with an affinity of 772 nM (Biacore analysis).

Figs. 24, 25 Anti-Factor D antibody blocks Factor D binding.

Figs. 26, 27 Anti-Factor D antibody does not affect catalytic cleavage.

Fig. 28. Hypothetical model depicting how anti-Factor D antibody inhibits Factor B activation.

Detailed Description of the Invention

I. Definitions

The terms "Factor D" and "complement Factor D" are used interchangeably, and refer to native sequence and variant Factor D polypeptides.

A "native sequence" Factor D, is a polypeptide having the same amino acid sequence as a Factor D polypeptide derived from nature, regardless of its mode of preparation. Thus, native sequence Factor D can be isolated from nature or can be produced by recombinant and/or synthetic means. In addition to a mature Factor D protein, such as the human Factor D protein

of SEQ ID NO: 1, or the cyno Factor D protein of SEQ ID NO: 2, the term "native sequence Factor D", specifically encompasses naturally-occurring precursor forms of Factor D (*e.g.,* an inactive preprotein, which is proteolytically cleaved to produce the active form), naturally-occurring variant forms (*e.g.,* alternatively spliced forms) and naturally-occurring allelic variants of Factor D, as well as structural conformational variants of Factor D molecules having the same amino acid sequence as a Factor D polypeptide derived from nature. Factor D polypeptides of non-human animals, including higher primates and non-human mammals, are specifically included within this definition, including but not limited to the cyno Factor D polypeptide of SEQ ID NO: 2.

"Factor D variant" or "complement Factor D variant" means an active Factor D polypeptide as defined below having at least about 80% amino acid sequence identity to a native sequence Factor D polypeptide, such as the native sequence human Factor D polypeptide of SEQ ID NO: 1, or the native sequence cyno Factor D polypeptide of SEQ ID NO: 2. Ordinarily, a Factor D variant will have at least about 80% amino acid sequence identity, or at least about 85% amino acid sequence identity, or at least about 90% amino acid sequence identity, or at least about 95% amino acid sequence identity, or at least about 98% amino acid sequence identity, or at least about 99% amino acid sequence identity with the mature human amino acid sequence of SEQ ID NO: 1 or the mature cyno Factor D polypeptide of SEQ ID NO: 2. Preferably, the highest degree of sequence identity occurs within the active site of Factor D.

The "active site" of Factor D is defined by His-57, Asp-102, and Ser-195 (chymotrypsinogen numbering) in the human Factor D sequence. Factor D has Asp189 (chymotrypsin numbering) at the bottom of the primary specificity pocket and cleaves an Arg peptide bond. The catalytic triad consists of His-57, Asp-102 and Ser-195. Asp-102 and His57 display atypical conformations compared with other serine proteases (Narayana et al., *J. Mol. Biol.* 235 (1994), 695-708). A unique sal bridge is observed between Asp189 and Arg218 at the bottom of the S1 pocket which elevated loop 214-218 and generated a deep and narrow S1 pocket (Jinget al., *J. Mol. Biol.* 282 (1998) 1061-1081). This loop and several other residues around the active site were shown by mutational analysis to be the key structural determinants of the Factor D esterolytic activity (Kim et al., J. Biol. Chem. 270 (1995) 24399-24405). Based on these results, it was proposed that Factor D may undergo a conformational change upon binding C3b-bound factor B, resulting in the expression of proteolytic activity (Volanakis and Narayana, *Protein Sci.* 5 (1996) 553-564).

As used herein, "solvent accessible position" refers to a position of an amino acid residue in the variable regions of the heavy and light chains of a source antibody or antigen binding

fragment that is determined, based on structure, ensemble of structures and/or modeled structure of the antibody or antigen binding fragment, as potentially available for solvent access and/or contact with a molecule, such as an antibody-specific antigen. These positions are typically found in the CDRs and on the exterior of the protein. The solvent accessible positions of an antibody or antigen binding fragment, as defined herein, can be determined using any of a number of algorithms known in the art. Preferably, solvent accessible positions are determined using coordinates from a 3-dimensional model of an antibody, preferably using a computer program such as the InsightII program (Accelrys, San Diego, CA). Solvent accessible positions can also be determined using algorithms known in the art (e.g., Lee and Richards (1971) *J. Mol. Biol.* 55, 379 and Connolly (1983) *J. Appl. Cryst.* 16, 548). Determination of solvent accessible positions can be performed using software suitable for protein modeling and 3-dimensional structural information obtained from an antibody. Software that can be utilized for these purposes includes SYBYL Biopolymer Module software (Tripos Associates). Generally and preferably, where an algorithm (program) requires a user input size parameter, the "size"of a probe which is used in the calculation is set at about 1.4 Angstrom or smaller in radius. In addition, determination of solvent accessible regions and area methods using software for personal computers has been described by Pacios (1994) *Comput. Chem.* 18(4): 377-386.

The term "binding pocket" refers to a region of a molecule or molecular complex, which, as a result of its shape, favorably associates with another chemical entity. The term "pocket" includes, but is not limited to, a cleft, channel or site. The shape of a binding pocket may be largely pre-formed before binding of a chemical entity, may be formed simultaneously with binding of a chemical entity thereto, or may be formed by the binding of another chemical entity thereto to a different binding pocket of the molecule, which in turn induces a change in shape of the binding pocket.

The term "generating a three-dimensional structure" or "generating a three-dimensional representation" refers to converting the lists of structure coordinates into structural models or graphical representation in three-dimensional space. This can be achieved through commercially or publicly available software. A model of a three-dimensional structure of a molecule or molecular complex can thus be constructed on a computer screen by a computer that is given the structure coordinates and that comprises the correct software. The three-dimensional structure may be displayed or used to perform computer modeling or fitting operations. In addition, the structure coordinates themselves, without the displayed model, may be used to perform computer-based modeling and fitting operations.

The term "crystallization solution" refers to a solution that promotes crystallization comprising at least one agent, including a buffer, one or more salts, a precipitating agent, one or more detergents, sugars or organic compounds, lanthanide ions, a poly-ionic compound and/or a stabilizer.

"Percent (%) amino acid sequence identity" is defined as the percentage of amino acid residues in a candidate sequence that are identical with the amino acid residues in a reference Factor D sequence, after aligning the sequences and introducing gaps, if necessary, to achieve the maximum percent sequence identity, and not considering any conservative substitutions as part of the sequence identity. Alignment for purposes of determining percent amino acid sequence identity can be achieved in various ways that are within the skill in the art, for instance, using publicly available computer software such as BLAST, BLAST-2, ALIGN or Megalign (DNASTAR) software. Those skilled in the art can determine appropriate parameters for measuring alignment, including any algorithms needed to achieve maximal alignment over the full length of the sequences being compared. Sequence identity is then calculated relative to the longer sequence, i.e. even if a shorter sequence shows 100% sequence identity with a portion of a longer sequence, the overall sequence identity will be less than 100%.

"Percent (%) nucleic acid sequence identity" is defined as the percentage of nucleotides in a candidate sequence that are identical with the nucleotides in a reference Factor D-encoding sequence, after aligning the sequences and introducing gaps, if necessary, to achieve the maximum percent sequence identity. Alignment for purposes of determining percent nucleic acid sequence identity can be achieved in various ways that are within the skill in the art, for instance, using publicly available computer software such as BLAST, BLAST-2, ALIGN or Megalign (DNASTAR) software. Those skilled in the art can determine appropriate parameters for measuring alignment, including any algorithms needed to achieve maximal alignment over the full length of the sequences being compared. Sequence identity is then calculated relative to the longer sequence, i.e. even if a shorter sequence shows 100% sequence identity wit a portion of a longer sequence, the overall sequence identity will be less than 100%.

An "isolated" nucleic acid molecule is a nucleic acid molecule that is identified and separated from at least one contaminant nucleic acid molecule with which it is ordinarily associated in the natural source of the nucleic acid. An isolated nucleic acid molecule is other than in the form or setting in which it is found in nature. Isolated nucleic acid molecules therefore are distinguished from the nucleic acid molecule as it exists in natural cells. However, an isolated nucleic acid molecule includes nucleic acid molecules contained in cells that

ordinarily express an encoded polypeptide where, for example, the nucleic acid molecule is in a chromosomal location different from that of natural cells.

An "isolated" Factor D polypeptide-encoding nucleic acid molecule is a nucleic acid molecule that is identified and separated from at least one contaminant nucleic acid molecule with which it is ordinarily associated in the natural source of the Factor D-encoding nucleic acid. An isolated Factor D polypeptide-encoding nucleic acid molecule is other than in the form or setting in which it is found in nature. Isolated Factor D polypeptide-encoding nucleic acid molecules therefore are distinguished from the encoding nucleic acid molecule(s) as they exists in natural cells. However, an isolated Factor D-encoding nucleic acid molecule includes Factor D-encoding nucleic acid molecules contained in cells that ordinarily express Factor D where, for example, the nucleic acid molecule is in a chromosomal location different from that of natural cells.

The term "antagonist" is used in the broadest sense, and includes any molecule that is capable of neutralizing, blocking, partially or fully inhibiting, abrogating, reducing or interfering with a Factor D biological activity. Factor D antagonists include, without limitation, anti-Factor D antibodies and antigen binding fragments thereof, other binding polypeptides, peptides, and non-peptide small molecules, that bind to Factor D and are capable of neutralizing, blocking, partially or fully inhibiting, abrogating, reducing or interfering with Factor D activities, such as the ability of Factor D to participate in the pathology of a complement-associated eye condition.

A "small molecule" is defined herein to have a molecular weight below about 600, preferably below about 1000 daltons.

"Active" or "activity" or "biological activity" in the context of a Factor D antagonist of the present invention is the ability the antagonize (partially or fully inhibit) a biological activity of Factor D. A preferred biological activity of a Factor D antagonist is the ability to achieve a measurable improvement in the state, e.g. pathology, of a Factor D-associated disease or condition, such as, for example, a complement-associated eye condition. The activity can be determined in *in vitro* or *in vivo* tests, including binding assays, using a relevant animal model, or human clinical trials.

The term "complement-associated eye condition" is used in the broadest sense and includes all eye conditions the pathology of which involves complement, including the classical and the alternative pathways, and in particular the alternative pathway of complement. Complement-associated eye conditions include, without limitation, macular degenerative diseases, such as all stages of age-related macular degeneration (AMD), including dry and wet (non-exudative and exudative) forms, choroidal neovascularization (CNV), uveitis, diabetic and

other ischemia-related retinopathies, and other intraocular neovascular diseases, such as diabetic macular edema, pathological myopia, von Hippel-Lindau disease, histoplasmosis of the eye, Central Retinal Vein Occlusion (CRVO), corneal neovascularization, and retinal neovascularization. A preferred group of complement-associated eye conditions includes age-related macular degeneration (AMD), including non-exudative (wet) and exudative (dry or atrophic) AMD, choroidal neovascularization (CNV), diabetic retinopathy (DR), and endophthalmitis.

"Treatment" is an intervention performed with the intention of preventing the development or altering the pathology of a disorder. Accordingly, "treatment" refers to both therapeutic treatment and prophylactic or preventative measures. Those in need of treatment include those already with the disorder as well as those in which the disorder is to be prevented. In treatment of an immune related disease, a therapeutic agent may directly alter the magnitude of response of a component of the immune response, or render the disease more susceptible to treatment by other therapeutic agents, *e.g.*, antibiotics, antifungals, anti-inflammatory agents, chemotherapeutics, etc.

The "pathology" of a disease, such as a complement-associated eye condition, includes all phenomena that compromise the well-being of the patient. This includes, without limitation, abnormal or uncontrollable cell growth (neutrophilic, eosinophilic, monocytic, lymphocytic cells), antibody production, auto-antibody production, complement production, interference with the normal functioning of neighboring cells, release of cytokines or other secretory products at abnormal levels, suppression or aggravation of any inflammatory or immunological response, infiltration of inflammatory cells (neutrophilic, eosinophilic, monocytic, lymphocytic) into cellular spaces, *etc*.

The term "mammal" as used herein refers to any animal classified as a mammal, including, without limitation, humans, higher primates, domestic and farm animals, and zoo, sports or pet animals such horses, pigs, cattle, dogs, cats and ferrets, *etc*. In a preferred embodiment of the invention, the mammal is a human.

Administration "in combination with" one or more further therapeutic agents includes simultaneous (concurrent) and consecutive administration in any order.

"Therapeutically effective amount" is the amount of a "Factor D antagonist" which is required to achieve a measurable improvement in the state, e.g. pathology, of the target disease or condition, such as, for example, a complement-associated eye condition.

The term "control sequences" refers to DNA sequences necessary for the expression of an operably linked coding sequence in a particular host organism. The control sequences that

are suitable for prokaryotes, for example, include a promoter, optionally an operator sequence, and a ribosome binding site. Eukaryotic cells are known to utilize promoters, polyadenylation signals, and enhancers.

Nucleic acid is "operably linked" when it is placed into a functional relationship with another nucleic acid sequence. For example, DNA for a presequence or secretory leader is operably linked to DNA for a polypeptide if it is expressed as a preprotein that participates in the secretion of the polypeptide; a promoter or enhancer is operably linked to a coding sequence if it affects the transcription of the sequence; or a ribosome binding site is operably linked to a coding sequence if it is positioned so as to facilitate translation. Generally, "operably linked" means that the DNA sequences being linked are contiguous, and, in the case of a secretory leader, contiguous and in reading phase. However, enhancers do not have to be contiguous. Linking is accomplished by ligation at convenient restriction sites. If such sites do not exist, the synthetic oligonucleotide adaptors or linkers are used in accordance with conventional practice.

"Stringency" of hybridization reactions is readily determinable by one of ordinary skill in the art, and generally is an empirical calculation dependent upon probe length, washing temperature, and salt concentration. In general, longer probes require higher temperatures for proper annealing, while shorter probes need lower temperatures. Hybridization generally depends on the ability of denatured DNA to reanneal when complementary strands are present in an environment below their melting temperature. The higher the degree of desired homology between the probe and hybridizable sequence, the higher the relative temperature that can be used. As a result, it follows that higher relative temperatures would tend to make the reaction conditions more stringent, while lower temperatures less so. For additional details and explanation of stringency of hybridization reactions, see Ausubel *et al., Current Protocols in Molecular Biology*, Wiley Interscience Publishers, (1995).

"Stringent conditions" or "high stringency conditions", as defined herein, may be identified by those that: (1) employ low ionic strength and high temperature for washing, for example 0.015 M sodium chloride/0.0015 M sodium citrate/0.1% sodium dodecyl sulfate at 50°C; (2) employ during hybridization a denaturing agent, such as formamide, for example, 50% (v/v) formamide with 0.1% bovine serum albumin/0.1% Ficoll/0.1% polyvinylpyrrolidone/50mM sodium phosphate buffer at pH 6.5 with 750 mM sodium chloride, 75 mM sodium citrate at 42C; or (3) employ 50% formamide, 5 x SSC (0.75 M NaCl, 0.075 M sodium citrate), 50 mM sodium phosphate (pH 6.8), 0.1% sodium pyrophosphate, 5 x Denhardt's solution, sonicated salmon sperm DNA (50 μg/ml), 0.1% SDS, and 10% dextran sulfate at 42°C, with washes at 42°C in 0.2 x SSC (sodium chloride/sodium citrate) and 50%

formamide at 55 °C, followed by a high-stringency wash consisting of 0.1 x SSC containing EDTA at 55°C.

"Moderately stringent conditions" may be identified as described by Sambrook *et al., Molecular Cloning: A Laboratory Manual*, New York: Cold Spring Harbor Press, 1989, and include the use of washing solution and hybridization conditions (*e.g.*, temperature, ionic strength and %SDS) less stringent that those described above. An example of moderately stringent conditions is overnight incubation at 37 °C in a solution comprising: 20% formamide, 5 x SSC (150 mM NaCl, 15 mM trisodium citrate), 50 mM sodium phosphate (pH 7.6), 5 x Denhardt's solution, 10% dextran sulfate, and 20 mg/mL denatured sheared salmon sperm DNA, followed by washing the filters in 1 x SSC at about 37-50 °C. The skilled artisan will recognize how to adjust the temperature, ionic strength, etc. as necessary to accommodate factors such as probe length and the like.

The term "epitope tagged" when used herein refers to a chimeric polypeptide comprising a polypeptide of the invention fused to a "tag polypeptide". The tag polypeptide has enough residues to provide an epitope against which an antibody can be made, yet is short enough such that it does not interfere with activity of the polypeptide to which it is fused. The tag polypeptide preferably also is fairly unique so that the antibody does not substantially cross-react with other epitopes. Suitable tag polypeptides generally have at least six amino acid residues and usually between about 8 and 50 amino acid residues (preferably, between about 10 and 20 amino acid residues).

The term "antibody" is used in the broadest sense and specifically covers, without limitation, single anti-Factor D monoclonal antibodies (including agonist, antagonist, and neutralizing antibodies) and anti-Factor D antibody compositions with polyepitopic specificity. The term "monoclonal antibody" as used herein refers to an antibody obtained from a population of substantially homogeneous antibodies, i.e., the individual antibodies comprising the population are identical except for possible naturally-occurring mutations that may be present in minor amounts.

The term "monoclonal antibody" as used herein refers to an antibody obtained from a population of substantially homogeneous antibodies, *i.e.*, the individual antibodies comprising the population are identical except for possible naturally occurring mutations that may be present in minor amounts. Monoclonal antibodies are highly specific, being directed against a single antigenic site. Furthermore, in contrast to conventional (polyclonal) antibody preparations which typically include different antibodies directed against different determinants (epitopes), each monoclonal antibody is directed against a single determinant on the antigen. The modifier

"monoclonal" indicates the character of the antibody as being obtained from a substantially homogeneous population of antibodies, and is not to be construed as requiring production of the antibody by any particular method. For example, the monoclonal antibodies to be used in accordance with the present invention may be made by the hybridoma method first described by Kohler et al. (1975) *Nature* 256:495, or may be made by recombinant DNA methods (see, *e.g.*, U.S. Patent No. 4,816,567). The "monoclonal antibodies" may also be isolated from phage antibody libraries using the techniques described in Clackson et al. (1991) *Nature* 352:624-628 and Marks et al. (1991) *J. Mol. Biol.* 222:581-597, for example.

The monoclonal antibodies herein specifically include "chimeric" antibodies (immunoglobulins) in which a portion of the heavy and/or light chain is identical with or homologous to corresponding sequences in antibodies derived from a particular species or belonging to a particular antibody class or subclass, while the remainder of the chain(s) is identical with or homologous to corresponding sequences in antibodies derived from another species or belonging to another antibody class or subclass, as well as fragments of such antibodies, so long as they exhibit the desired biological activity (U.S. Patent No. 4,816,567; and Morrison et al. (1984) *Proc. Natl. Acad. Sci. USA* 81:6851-6855).

"Humanized" forms of non-human (*e.g.,* murine) antibodies are chimeric antibodies which contain minimal sequence derived from non-human immunoglobulin. For the most part, humanized antibodies are human immunoglobulins (recipient antibody) in which residues from a hypervariable region of the recipient are replaced by residues from a hypervariable region of a non-human species (donor antibody) such as mouse, rat, rabbit or nonhuman primate having the desired specificity, affinity, and capacity. In some instances, Fv framework region (FR) residues of the human immunoglobulin are replaced by corresponding non-human residues. Furthermore, humanized antibodies may comprise residues which are not found in the recipient antibody or in the donor antibody. These modifications are made to further refine antibody performance. In general, the humanized antibody will comprise substantially all of at least one, and typically two, variable domains, in which all or substantially all of the hypervariable loops correspond to those of a non-human immunoglobulin and all or substantially all of the FR regions are those of a human immunoglobulin sequence. The humanized antibody optionally also will comprise at least a portion of an immunoglobulin constant region (Fc), typically that of a human immunoglobulin. For further details, see Jones et al. (1986) *Nature* 321:522-525; Riechmann et al. (1988) *Nature* 332:323-329; and Presta (1992) *Curr. Op. Struct. Biol.* 2:593-596.

A "species-dependent antibody" is one which has a stronger binding affinity for an antigen from a first mammalian species than it has for a homologue of that antigen from a

second mammalian species. Normally, the species-dependent antibody "binds specifically" to a human antigen (*i.e.* has a binding affinity (K_d) value of no more than about 1 x 10^{-7} M, preferably no more than about 1 x 10^{-8} M and most preferably no more than about 1 x 10^{-9} M) but has a binding affinity for a homologue of the antigen from a second nonhuman mammalian species which is at least about 50 fold, or at least about 500 fold, or at least about 1000 fold, weaker than its binding affinity for the human antigen. The species-dependent antibody can be any of the various types of antibodies as defined above, but preferably is a humanized or human antibody.

As used herein, "antibody mutant" or "antibody variant" refers to an amino acid sequence variant of the species-dependent antibody wherein one or more of the amino acid residues of the species-dependent antibody have been modified. Such mutants necessarily have less than 100% sequence identity or similarity with the species-dependent antibody. In a preferred embodiment, the antibody mutant will have an amino acid sequence having at least 75% amino acid sequence identity or similarity with the amino acid sequence of either the heavy or light chain variable domain of the species-dependent antibody, more preferably at least 80%, more preferably at least 85%, more preferably at least 90%, and most preferably at least 95%. Identity or similarity with respect to this sequence is defined herein as the percentage of amino acid residues in the candidate sequence that are identical (*i.e* same residue) or similar (*i.e.* amino acid residue from the same group based on common side-chain properties, see below) with the species-dependent antibody residues, after aligning the sequences and introducing gaps, if necessary, to achieve the maximum percent sequence identity. None of N-terminal, C-terminal, or internal extensions, deletions, or insertions into the antibody sequence outside of the variable domain shall be construed as affecting sequence identity or similarity.

An "isolated" antibody is one which has been identified and separated and/or recovered from a component of its natural environment. Contaminant components of its natural environment are materials which would interfere with diagnostic or therapeutic uses for the antibody, and may include enzymes, hormones, and other proteinaceous or nonproteinaceous solutes. In preferred embodiments, the antibody will be purified (1) to greater than 95% by weight of antibody as determined by the Lowry method, and most preferably more than 99% by weight, (2) to a degree sufficient to obtain at least 15 residues of N-terminal or internal amino acid sequence by use of a spinning cup sequenator, or (3) to homogeneity by SDS-PAGE under reducing or nonreducing conditions using Coomassie blue or, preferably, silver stain. Isolated antibody includes the antibody *in situ* within recombinant cells since at least one component of

the antibody's natural environment will not be present. Ordinarily, however, isolated antibody will be prepared by at least one purification step.

As used herein, "antibody variable domain" refers to the portions of the light and heavy chains of antibody molecules that include amino acid sequences of Complementarity Determining Regions (CDRs; ie., CDR1, CDR2, and CDR3), and Framework Regions (FRs). V_H refers to the variable domain of the heavy chain. V_L refers to the variable domain of the light chain. According to the methods used in this invention, the amino acid positions assigned to CDRs and FRs may be defined according to Kabat (Sequences of Proteins of Immunological Interest (National Institutes of Health, Bethesda, Md., 1987 and 1991)). Amino acid numbering of antibodies or antigen binding fragments is also according to that of Kabat.

As used herein, the term "Complementarity Determining Regions (CDRs; ie., CDR1, CDR2, and CDR3) refers to the amino acid residues of an antibody variable domain the presence of which are necessary for antigen binding. Each variable domain typically has three CDR regions identified as CDR1, CDR2 and CDR3. Each complementarity determining region may comprise amino acid residues from a "complementarity determining region" as defined by Kabat (*i.e.* about residues 24-34 (L1), 50-56 (L2) and 89-97 (L3) in the light chain variable domain and 31-35 (H1), 50-65 (H2) and 95-102 (H3) in the heavy chain variable domain; Kabat et al., *Sequences of Proteins of Immunological Interest,* 5th Ed. Public Health Service, National Institutes of Health, Bethesda, MD. (1991)) and/or those residues from a "hypervariable loop" (*i.e.* about residues 26-32 (L1), 50-52 (L2) and 91-96 (L3) in the light chain variable domain and 26-32 (H1), 53-55 (H2) and 96-101 (H3) in the heavy chain variable domain; Chothia and Lesk (1987) *J. Mol. Biol.* 196:901-917). In some instances, a complementarity determining region can include amino acids from both a CDR region defined according to Kabat and a hypervariable loop. For example, the CDRH1 of the heavy chain of antibody 4D5 includes amino acids 26 to 35.

"Framework regions" (hereinafter FR) are those variable domain residues other than the CDR residues. Each variable domain typically has four FRs identified as FR1, FR2, FR3 and FR4. If the CDRs are defined according to Kabat, the light chain FR residues are positioned at about residues 1-23 (LCFR1), 35-49 (LCFR2), 57-88 (LCFR3), and 98-107 (LCFR4) and the heavy chain FR residues are positioned about at residues 1-30 (HCFR1), 36-49 (HCFR2), 66-94 (HCFR3), and 103-113 (HCFR4) in the heavy chain residues. If the CDRs comprise amino acid residues from hypervariable loops, the light chain FR residues are positioned about at residues 1-25 (LCFR1), 33-49 (LCFR2), 53-90 (LCFR3), and 97-107 (LCFR4) in the light chain and the heavy chain FR residues are positioned about at residues 1-25 (HCFR1), 33-52 (HCFR2), 56-95

(HCFR3), and 102-113 (HCFR4) in the heavy chain residues. In some instances, when the CDR comprises amino acids from both a CDR as defined by Kabat and those of a hypervariable loop, the FR residues will be adjusted accordingly. For example, when CDRH1 includes amino acids H26-H35, the heavy chain FR1 residues are at positions 1-25 and the FR2 residues are at positions 36-49.

As used herein, "codon set" refers to a set of different nucleotide triplet sequences used to encode desired variant amino acids. A set of oligonucleotides can be synthesized, for example, by solid phase synthesis, including sequences that represent all possible combinations of nucleotide triplets provided by the codon set and that will encode the desired group of amino acids. A standard form of codon designation is that of the IUB code, which is known in the art and described herein. A codon set typically is represented by 3 capital letters in italics, eg. *NNK, NNS, XYZ, DVK* and the like. A "non-random codon set", as used herein, thus refers to a codon set that encodes select amino acids that fulfill partially, preferably completely, the criteria for amino acid selection as described herein. Synthesis of oligonucleotides with selected nucleotide "degeneracy" at certain positions is well known in that art, for example the TRIM approach (Knappek et al. (1999) *J. Mol. Biol.* 296:57-86); Garrard & Henner (1993) *Gene* 128:103). Such sets of oligonucleotides having certain codon sets can be synthesized using commercial nucleic acid synthesizers (available from, for example, Applied Biosystems, Foster City, CA), or can be obtained commercially (for example, from Life Technologies, Rockville, MD). Therefore, a set of oligonucleotides synthesized having a particular codon set will typically include a plurality of oligonucleotides with different sequences, the differences established by the codon set within the overall sequence. Oligonucleotides, as used according to the invention, have sequences that allow for hybridization to a variable domain nucleic acid template and also can, but does not necessarily, include restriction enzyme sites useful for, for example, cloning purposes.

The term "antibody fragment" is used herein in the broadest sense and includes, without limitation, Fab, Fab′, $F(ab')_2$, scFv, $(scFv)_2$, dAb, and complementarity determining region (CDR) fragments, linear antibodies, single-chain antibody molecules, minibodies, diabodies, and multispecific antibodies formed from antibody fragments.

An "Fv" fragment is an antibody fragment which contains a complete antigen recognition and binding site. This region consists of a immer of one heavy and one light chain variable domain in tight association, which can be covalent in nature, for example in scFv. It is in this configuration that the three CDRs of each variable domain interact to define an antigen binding site on the surface of the V_H-V_L immer. Collectively, the six CDRs or a subset thereof confer antigen binding specificity to the antibody. However, even a single variable domain (or half of

an Fv comprising only three CDRs specific for an antigen) has the ability to recognize and bind antigen, although usually at a lower affinity than the entire binding site.

The "Fab" fragment contains a variable and constant domain of the light chain and a variable domain and the first constant domain (CH1) of the heavy chain. $F(ab')_2$ antibody fragments comprise a pair of Fab fragments which are generally covalently linked near their carboxy termini by hinge cysteines between them. Other chemical couplings of antibody fragments are also known in the art.

"Single-chain Fv" or "scFv" antibody fragments comprise the V_H and V_L domains of antibody, wherein these domains are present in a single polypeptide chain. Generally the Fv polypeptide further comprises a polypeptide linker between the V_H and V_L domains, which enables the scFv to form the desired structure for antigen binding. For a review of scFv, see Pluckthun in *The Pharmacology of Monoclonal Antibodies,* Vol 113, Rosenburg and Moore eds. Springer-Verlag, New York, pp. 269-315 (1994).

The term "diabodies" refers to small antibody fragments with two antigen binding sites, which fragments comprise a heavy chain variable domain (V_H) connected to a light chain variable domain (V_L) in the same polypeptide chain (V_H and V_L). By using a linker that is too short to allow pairing between the two domains on the same chain, the domains are forced to pair with the complementary domains of another chain and create two antigen binding sites. Diabodies are described more fully in, for example, EP 404,097; WO 93/11161; and Hollinger et al. (1993) *Proc. Natl. Acad. Sci. USA* 90:6444-6448.

The expression "linear antibodies" refers to the antibodies described in Zapata et al. (1995 *Protein Eng,* 8(10):1057-1062). Briefly, these antibodies comprise a pair of tandem Fd segments (V_H-C_H1-V_H-C_H1) which, together with complementary light chain polypeptides, form a pair of antigen binding regions. Linear antibodies can be bispecific or monospecific.

As used herein, "library" refers to a plurality of antibody or antibody fragment sequences (for example, polypeptides of the invention), or the nucleic acids that encode these sequences, the sequences being different in the combination of variant amino acids that are introduced into these sequences according to the methods of the invention.

"Phage display" is a technique by which variant polypeptides are displayed as fusion proteins to at least a portion of coat protein on the surface of phage, *e.g.*, filamentous phage, particles. A utility of phage display lies in the fact that large libraries of randomized protein variants can be rapidly and efficiently sorted for those sequences that bind to a target antigen with high affinity. Display of peptide and protein libraries on phage has been used for screening millions of polypeptides for ones with specific binding properties. Polyvalent phage display

methods have been used for displaying small random peptides and small proteins through fusions to either gene III or gene VIII of filamentous phage. Wells and Lowman (1992) *Curr. Opin. Struct. Biol.* 3:355-362, and references cited therein. In a monovalent phage display, a protein or peptide library is fused to a gene III or a portion thereof, and expressed at low levels in the presence of wild type gene III protein so that phage particles display one copy or none of the fusion proteins. Avidity effects are reduced relative to polyvalent phage so that sorting is on the basis of intrinsic ligand affinity, and phagemid vectors are used, which simplify DNA manipulations. Lowman and Wells (1991) *Methods: A companion to Methods in Enzymology* 3:205-0216.

A "phagemid" is a plasmid vector having a bacterial origin of replication, *e.g.*, Co1E1, and a copy of an intergenic region of a bacteriophage. The phagemid may be used on any known bacteriophage, including filamentous bacteriophage and lambdoid bacteriophage. The plasmid will also generally contain a selectable marker for antibiotic resistance. Segments of DNA cloned into these vectors can be propagated as plasmids. When cells harboring these vectors are provided with all genes necessary for the production of phage particles, the mode of replication of the plasmid changes to rolling circle replication to generate copies of one strand of the plasmid DNA and package phage particles. The phagemid may form infectious or non-infectious phage particles. This term includes phagemids which contain a phage coat protein gene or fragment thereof linked to a heterologous polypeptide gene as a gene fusion such that the heterologous polypeptide is displayed on the surface of the phage particle.

The term "phage vector" means a double stranded replicative form of a bacteriophage containing a heterologous gene and capable of replication. The phage vector has a phage origin of replication allowing phage replication and phage particle formation. The phage is preferably a filamentous bacteriophage, such as an M13, f1, fd, Pf3 phage or a derivative thereof, or a lambdoid phage, such as λ, 21, phi80, phi81, 82, 424, 434, etc., or a derivative thereof.

The terms "peptide mimetic" and "peptidomimetic" are used interchangeably, and refer to conformationally well defined peptide molecules, that mimic the structures and binding properties of a Factor D recognition region (epitope) of an anti-Factor D antibody herein. The crystal structures herein enable the identification and preparation of such peptide mimetics.

Detailed Description

Crystal Structure and Molecular Modeling

Applicants have solved the three-dimensional structure of a Factor D/anti-Factor D antibody complex using high resolution X-ray crystallography. This work has provided, for the first time, information about the binding site of Factor D for an anti-Factor D antibody, and of

the residues of an anti-Factor D antibody heavy and light chains participating in binding to Factor D.

In one aspect, the invention concerns crystallizable compositions comprising a Factor D polypeptide complexed with an anti-Factor D antibody or an antigen binding fragment of such antibody.

The crystallizable compositions provided by the present invention are amenable to X-ray crystallography. Therefore, this invention also encompasses crystals of the crystallizable compositions.

This invention further provides the three dimensional structure of a Factor D/anti-Factor D antibody complex at high resolution (e.g. 2.1 Å or 2.4 Å resolution, see Figure 1)

X-ray crystallographic techniques are known in the art. The three-dimensional structure of the Factor D/anti-Factor D antibody complex is defined by a set of structure coordinates as set forth in Appendices 1A and 1B. The term "structure coordinates" refers to Cartesian atomic coordinates derived from mathematical equations related to the patterns obtained on diffraction of a monochromatic beam of X-rays by the atoms of an extracellular domain of a Factor D/anti-Factor D antibody complex in crystalline form.

As shown in Figures 5, 6A and 6B, it has been determined that amino acid residues D131, V132, P134, D165, R166, A167, T168, N170, R171, R172, T173, D176, G177, I179, E181, R222, and K223 of human Factor D of SEQ ID NO: 1 participate in binding to an anti-factor B antibody Fab fragment. It has further been found that, for binding purposes, the key residue in the human Factor D amino acid sequence is R172, which can potentially form six or more hydrogen bonds with the anti-Factor D antibody heavy and light chains. Figures 6A and 6B also show the residues in the anti-Factor D antibody heavy and light chains which are in close proximity to and available to interact (for example by forming hydrogen bonds) with the human Factor D molecule.

Those of ordinary skill in the pertinent art will understand that a set of structure coordinates for a polypeptide complex is a relative set of points that define a shape in three dimensions. Therefore, it is possible that a different set of coordinates defines a similar or identical shape. Moreover, slight variations in the individual coordinates will have little effect on the overall shape.

In accordance with the present invention, the structure coordinates of a complex comprising Factor D and an anti-Factor D antibody or an antigen binding fragment thereof, for example a Fab fragment of an anti-Factor D monoclonal antibody, may be stored in a machine-readable storage medium, where the machine can be a computer. The data generated can be

used for a variety of purposes, such as, for example, drug discovery, discovery of anti-Factor D antibody variants with improved properties, such as improved specific binding to Factor D, and X-ray crystallographic analysis of other protein crystals. In order to use the structure coordinates generated for the Factor D/anti-factor antibody complex, it is necessary to convert the structural coordinates into a three-dimensional shape. This can be readily accomplished through the use of commercially available software that is capable of generating a three-dimensional graphical representation of molecular complexes, or portions thereof, from a set of structure coordinates. Such three-dimensional representation is also within the scope of the present invention.

Thus, the invention includes a computer for producing a three-dimensional representation of: a molecular complex comprising a binding site defined by structure coordinates of amino acid residues D131, V132, P134, D165, R166, A167, T168, N170, R171, R172, T173, D176, G177, I179, E181, R222, and K223 of human Factor D of SEQ ID NO: 1, wherein the computer comprises: (i) a machine-readable data storage medium comprising a data storage material encoded with machine-readable data, wherein such data comprises the structure coordinates of amino acid residues D131, V132, P134, D165, R166, A167, T168, N170, R171, R172, T173, D176, G177, I179, E181, R222, and K223 of human Factor D of SEQ ID NO: 1, and (ii) instructions for processing the machine-readable data into said three-dimensional representation.

In certain embodiments, the computer comprises a display for displaying the structure coordinates.

In another aspect, the invention concerns a method for evaluating the potential of a chemical entity to associate with a molecular complex comprising a binding site defined by structure coordinates of amino acid residues D131, V132, P134, D165, R166, A167, T168, N170, R171, R172, T173, D176, G177, I179, E181, R222, and K223 of human Factor D of SEQ ID NO: 1, comprising the steps of: (i) employing computational means to perform a fitting operation between the chemical entity and said binding site of the molecular complex; and (ii) analyzing the results of the fitting operation to quantify the association between the chemical entity and said binding site. The chemical entity may, for example, be an agonist or antagonist of Factor D, including agonist and antagonist antibodies and variants of the anti-Factor D antibody used for determination of the crystal structure and three-dimensional confirmation of Factor D complexed with an anti-Factor D antibody herein, or an antigen binding fragment of such antibodies. The chemical entity may also be a peptide mimetic of an agonist or antagonist Factor D antibody or antibody fragment.

The potential agonist or antagonist may be synthesized, and contacted with Factor D to determine its ability to interact with (e.g. bind to) Factor D. It is further possible to determine whether a potential antagonist interrupts the Factor D/anti-Factor D antibody interaction. Before actually testing the binding of the potential antagonist to Factor D, it is possible, using the molecular coordinates and three-dimensional models provided by the present invention, to analyze the structure of such compound by computer modeling techniques. If computer modeling indicates a strong interaction or binding, the compound may then be produced (e.g. by synthetic and/or recombinant means) and tested for its ability to bind to Factor D.

Anti-Factor D antibodies

Anti-Factor D antibodies are selected using a Factor D antigen derived from a mammalian species. Preferably the antigen is human Factor D. However, Factor Ds from other species such as cyno or murine Factor D can also be used as the target antigen. The Factor D antigens from various mammalian species may be isolated from natural sources. In other embodiments, the antigen is produced recombinantly or made using other synthetic methods known in the art.

The antibody selected following the methods of the present invention will normally have a sufficiently strong binding affinity for the Factor D antigen. For example, the antibody may bind human Factor D with a K_d value of no more than about 5 nM, preferably no more than about 2 nM, and more preferably no more than about 500pM. Antibody affinities may be determined by a surface plasmon resonance based assay (such as the BIAcore assay as described in Examples); enzyme-linked immunoabsorbent assay (ELISA); and competition assays (*e.g.* RIA's), for example.

Also, the antibody may be subject to other biological activity assays, *e.g.*, in order to evaluate its effectiveness as a therapeutic. Such assays are known in the art and depend on the target antigen and intended use for the antibody. Examples include the HUVEC inhibition assay; tumor cell growth inhibition assays (as described in WO 89/06692, for example); antibody-dependent cellular cytotoxicity (ADCC) and complement-mediated cytotoxicity (CDC) assays (US Patent 5,500,362); and *in vitro* and *in vivo* assays described below for identifying Factor D antagonists.

To screen for antibodies which bind to a particular epitope on the antigen of interest, a routine cross-blocking assay such as that described in *Antibodies, A Laboratory Manual*, Cold Spring Harbor Laboratory, Ed Harlow and David Lane (1988), can be performed. Alternatively,

epitope mapping, *e.g.* as described in Champe et al. (1995) *J. Biol. Chem.* 270:1388-1394, can be performed to determine whether the antibody binds an epitope of interest.

In a preferred embodiment, the anti-Factor D antibodies are selected using a unique phage display approach. The approach involves generation of synthetic antibody phage libraries based on single framework template, design of sufficient diversities within variable domains, display of polypeptides having the diversified variable domains, selection of candidate antibodies with high affinity to target Factor D antigen, and isolation of the selected antibodies.

Details of the phage display methods can be found, for example, in WO90/05144; WO90/14424; WO90/14430, WO92/01047, WO93/11236; WO91/05058; WO03/102157; WO91/05058; US 6,291,158; US 6,291,159, US 6,291,160, US 6,291,161; US 5,969,108, US 5,885,793; and US 5,643,768.

Factor D antibodies are disclosed in US Patent Publication Nos. 20020081293, 20080118506, 20090181017, and 20090269338, the entire disclosures of which are hereby expressly incorporated by reference.

Preferred antibodies include antibody clones #56, #111, #250, and #416, the variable heavy chain and the variable light chain amino acid sequences of which are shown in Figure 10 (SEQ ID NOs: 5, 6, 7 and 8, respectively).

Further preferred anti-Factor D antibody is anti-Factor D Fab 238. The nucleotide sequence (SEQ ID NO: 9) of the light chain of humanized anti-Factor D Fab 238 is shown in Fig. 11 (SEQ ID NO: 9). The nucleotide sequence encodes for the light chain of humanized anti-Factor D Fab 238 with the start and stop codons shown in bold and underlined. The codon corresponding to the first amino acid in Fig. 11 (SEQ ID NO: 10) is bold and italicized. Fig. 12 shows the amino acid sequence (SEQ ID NO: 10) of the light chain for humanized anti-Factor D Fab 238. The amino acid sequence lacks the N-terminus signal sequence of the polypeptide encoded by SEQ ID NO: 9 shown in Fig. 11. The HVR sequences are bold and italicized. Variable regions are regions not underlined while first constant domain CL1 is underlined. Framework (FR) regions and HVR regions are shown. Figure 13 shows the nucleotide sequence (SEQ ID NO: 18) of the heavy chain of humanized anti-Factor D Fab 238. The nucleotide sequence encodes for the heavy chain of humanized anti-Factor D Fab 238 with the start and stop codon shown in bold and underlined. The codon corresponding to the first amino acid in Figure 14 (SEQ ID NO: 19) is bold and italicized. Figure 14 shows the amino acid sequence (SEQ ID NO: 19) of the heavy chain for humanized anti-Factor D Fab 238. The amino acid sequence lacks the N-terminus signal sequence of the polypeptide encoded by SEQ ID NO:

18 shown in Figure 13. The HVR sequences are bold and italicized. Variable regions are regions not underlined while first constant domain CH1 is underlined. Framework (FR) regions and HVR regions are shown.

A still further preferred anti-Factor D antibody is anti-Factor D Fab 238-1. Figure 15 shows the nucleotide sequence (SEQ ID NO: 28) of the light chain of humanized anti-Factor D Fab 238-1. The nucleotide sequence encodes for the light chain of humanized anti-Factor D Fab 238-1 with the start and stop codon shown in bold and underlined. The codon corresponding to the first amino acid in FIG. 16 (SEQ ID NO: 29) is bold and italicized. Figure 16 shows the amino acid sequence (SEQ ID NO 29) of the light chain for humanized anti-Factor D Fab 238-1. The amino acid sequence lacks the N-terminus signal sequence of the polypeptide encoded by SEQ ID NO: 28 shown in FIG. 15. The HVR sequences are bold and italicized. Variable regions are regions not underlined while first constant domain CL1 is underlined. Framework (FR) regions and HVR regions are shown. Figure 17 shows the nucleotide sequence (SEQ ID NO: 30) of the heavy chain of humanized anti-Factor D Fab 238-1. The nucleotide sequence encodes for the heavy chain of humanized anti-Factor D Fab 238-1 with the start and stop codon in bold and underlined. The codon corresponding to the first amino acid in FIG. 18 (SEQ ID NO: 31) is bold and italicized. Figure 18 shows the amino acid sequence (SEQ ID NO: 31) of the heavy chain for humanized anti-Factor D Fab 238-1. The amino acid sequence lacks the N-terminus signal sequence of the polypeptide encoded by SEQ ID NO: 30 shown in Figure 18. The HVR sequences are bold and italicized. Variable regions are regions not underlined while first constant domain CH1 is underlined. Framework (FR) regions and HVR regions are shown.

Another preferred anti-Factor D antibody is anti-factor D Fab 238-2, having the light chain amino acid sequence shown in FIG. 19 (SEQ ID NO: 40) and the heavy chain amino acid sequence shown in FIG. 20 (SEQ ID NO: 41).

Preferred mimetics, e.g. peptidomimetics, mimic the binding and/or biological properties of the preferred antibodies or antibody fragments herein.

Uses of Factor D antibodies and other Factor D antagonists

The invention herein provides Factor D antagonists, including anti-Factor D antibodies, and variants thereof, and fragments thereof (e.g. antigen-binding fragments) useful for the prevention and treatment of complement-associated conditions, including eye conditions (all eye conditions and diseases the pathology of which involves complement, including the classical and the alternative pathways, and in particular the alternative pathway of complement), such as, for

example, macular degenerative diseases, such as all stages of age-related macular degeneration (AMD), including dry and wet (non-exudative and exudative) forms, choroidal neovascularization (CNV), uveitis, diabetic and other ischemia-related retinopathies, endophthalmitis, and other intraocular neovascular diseases, such as diabetic macular edema, pathological myopia, von Hippel-Lindau disease, histoplasmosis of the eye, Central Retinal Vein Occlusion (CRVO), corneal neovascularization, and retinal neovascularization. One group of complement-associated eye conditions includes age-related macular degeneration (AMD), including non-exudative (e.g. intermediate dry AMD or geographic atrophy (GA)) and exudative (e.g. wet AMD (choroidal neovascularization (CNV)) AMD, diabetic retinopathy (DR), endophthalmitis and uveitis. In one example, complement-associated eye condition is intermediate dry AMD. In one example, complement-associated eye condition is geographic atrophy. In one example, complement-associated eye condition is wet AMD (choroidal neovascularization (CNV)).

AMD is age-related degeneration of the macula, which is the leading cause of irreversible visual dysfunction in individuals over the age of 60. Two types of AMD exist, non-exudative (dry) and exudative (wet) AMD. The dry, or nonexudative, form involves atrophic and hypertrophic changes in the retinal pigment epithelium (RPE) underlying the central retina (macula) as well as deposits (drusen) on the RPE. Patients with nonexudative AMD can progress to the wet, or exudative, form of AMD, in which abnormal blood vessels called choroidal neovascular membranes (CNVMs) develop under the retina, leak fluid and blood, and ultimately cause a blinding disciform scar in and under the retina. Nonexudative AMD, which is usually a precursor of exudative AMD, is more common. The presentation of nonexudative AMD varies: hard drusen, soft drusen, RPE geographic atrophy, and pigment clumping can be present. Complement components are deposited on the RPE early in AMD and are major constituents of drusen.

Factor D antagonists can be evaluated in a variety of cell-based assays and animal models of complement-associated diseases or disorders.

Thus, for example, recombinant (transgenic) animal models can be engineered by introducing the coding portion of the genes of interest into the genome of animals of interest, using standard techniques for producing transgenic animals. Animals that can serve as a target for transgenic manipulation include, without limitation, mice, rats, rabbits, guinea pigs, sheep, goats, pigs, and non-human primates, e.g. baboons, chimpanzees and other monkeys. Techniques known in the art to introduce a transgene into such animals include pronucleic microinjection (Hoppe and Wanger, U.S. Patent No. 4,873,191); retrovirus-mediated gene

transfer into germ lines (e.g., Van der Putten *et al.,* Proc. Natl. Acad. Sci. USA 82, 6148-615 [1985]); gene targeting in embryonic stem cells (Thompson *et al.,* Cell 56, 313-321 [1989]); electroporation of embryos (Lo, *Mol. Cell. Biol.* 3, 1803-1814 [1983]); sperm-mediated gene transfer (Lavitrano *et al., Cell* 57, 717-73 [1989]). For review, see, for example, U.S. Patent No. 4,736,866.

For the purpose of the present invention, transgenic animals include those that carry the transgene only in part of their cells ("mosaic animals"). The transgene can be integrated either as a single transgene, or in concatamers, e.g., head-to-head or head-to-tail tandems. Selective introduction of a transgene into a particular cell type is also possible by following, for example, the technique of Lasko *et al., Proc. Natl. Acad. Sci. USA* 89, 623-636 (1992).

The expression of the transgene in transgenic animals can be monitored by standard techniques. For example, Southern blot analysis or PCR amplification can be used to verify the integration of the transgene. The level of mRNA expression can then be analyzed using techniques such as *in situ* hybridization, Northern blot analysis, PCR, or immunocytochemistry.

The animals may be further examined for signs of immune disease pathology, for example by histological examination to determine infiltration of immune cells into specific tissues. Blocking experiments can also be performed in which the transgenic animals are treated with a candidate Factor D antagonist to determine the extent of effects on complement and complement activation, including the classical and alternative pathways, or T cell proliferation. In these experiments, blocking antibodies which bind to the polypeptide of the invention, are administered to the animal and the biological effect of interest is monitored.

Alternatively, "knock out" animals can be constructed which have a defective or altered gene encoding Factor D, as a result of homologous recombination between the endogenous gene encoding the Factor D polypeptide and altered genomic DNA encoding the same polypeptide introduced into an embryonic cell of the animal. For example, cDNA encoding Factor D can be used to clone genomic DNA encoding Factor D in accordance with established techniques. A portion of the genomic DNA encoding Factor D can be deleted or replaced with another gene, such as a gene encoding a selectable marker which can be used to monitor integration. Typically, several kilobases of unaltered flanking DNA (both at the 5' and 3' ends) are included in the vector [see e.g., Thomas and Capecchi, *Cell,* 51:503 (1987) for a description of homologous recombination vectors]. The vector is introduced into an embryonic stem cell line (e.g., by electroporation) and cells in which the introduced DNA has homologously recombined with the endogenous DNA are selected [see e.g., Li *et al., Cell,* 69:915 (1992)]. The selected cells are then injected into a blastocyst of an animal (e.g., a mouse or rat) to form aggregation

chimeras [see e.g., Bradley, in *Teratocarcinomas and Embryonic Stem Cells: A Practical Approach*, E. J. Robertson, ed. (IRL, Oxford, 1987), pp. 113-152]. A chimeric embryo can then be implanted into a suitable pseudopregnant female foster animal and the embryo brought to term to create a "knock out" animal. Progeny harboring the homologously recombined DNA in their germ cells can be identified by standard techniques and used to breed animals in which all cells of the animal contain the homologously recombined DNA. Knockout animals can be characterized for instance, for their ability to defend against certain pathological conditions and for their development of pathological conditions due to absence of the Factor D polypeptide.

Thus, the biological activity of potential Factor D antagonists can be further studied in murine Factor D knock-out mice.

An animal model of age-related macular degeneration (AMD) consists of mice with a null mutation in Ccl-2 or Ccr-2 gnes. These mice develop cardinal features of AMD, including accumulation of lipofuscin in and drusen beneath the retinal pigmented epithelium (RPE), photoreceptor atrophy and choroidal neovascularization (CNV). These features develop beyond 6 months of age. Candidate Factor D antagonists can be tested for the formation of drusen, photoreceptor atrophy and choroidal neovascularization.

Pharmaceutical Compositions

Therapeutic formulations of the polypeptide or antibody, or antibody fragment thereof (e.g. antigen-binding fragment), or antibody variant thereof, may be prepared for storage as lyophilized formulations or aqueous solutions by mixing the polypeptide having the desired degree of purity with optional "pharmaceutically-acceptable" carriers, excipients or stabilizers typically employed in the art (all of which are termed "excipients"). For example, buffering agents, stabilizing agents, preservatives, isotonifiers, non-ionic detergents, antioxidants and other miscellaneous additives. (See Remington's Pharmaceutical Sciences, 16th edition, A. Osol, Ed. (1980)). Such additives must be nontoxic to the recipients at the dosages and concentrations employed.

Buffering agents help to maintain the pH in the range which approximates physiological conditions. They are preferably present at concentration ranging from about 2 mM to about 50 mM. Suitable buffering agents for use with the present invention include both organic and inorganic acids and salts thereof such as citrate buffers (e.g., monosodium citrate-disodium citrate mixture, citric acid-trisodium citrate mixture, citric acid-monosodium citrate mixture, etc.), succinate buffers (e.g., succinic acid-monosodium succinate mixture, succinic acid-sodium hydroxide mixture, succinic acid-disodium succinate mixture, etc.), tartrate buffers (e.g., tartaric

acid-sodium tartrate mixture, tartaric acid-potassium tartrate mixture, tartaric acid-sodium hydroxide mixture, etc.), fumarate buffers (e.g., fumaric acid-monosodium fumarate mixture, etc.), fumarate buffers (e.g., fumaric acid-monosodium fumarate mixture, fumaric acid-disodium fumarate mixture, monosodium fumarate-disodium fumarate mixture, etc.), gluconate buffers (e.g., gluconic acid-sodium glyconate mixture, gluconic acid-sodium hydroxide mixture, gluconic acid-potassium glyuconate mixture, etc.), oxalate buffer (e.g., oxalic acid-sodium oxalate mixture, oxalic acid-sodium hydroxide mixture, oxalic acid-potassium oxalate mixture, etc.), lactate buffers (e.g., lactic acid-sodium lactate mixture, lactic acid-sodium hydroxide mixture, lactic acid-potassium lactate mixture, etc.) and acetate buffers (e.g., acetic acid-sodium acetate mixture, acetic acid-sodium hydroxide mixture, etc.). Additionally, there may be mentioned phosphate buffers, histidine buffers and trimethylamine salts such as Tris.

Preservatives may be added to retard microbial growth, and may be added in amounts ranging from 0.2%-1% (w/v). Suitable preservatives for use with the present invention include phenol, benzyl alcohol, meta-cresol, methyl paraben, propyl paraben, octadecyldimethylbenzyl ammonium chloride, benzalconium halides (e.g., chloride, bromide, iodide), hexamethonium chloride, alkyl parabens such as methyl or propyl paraben, catechol, resorcinol, cyclohexanol, and 3-pentanol.

Isotonicifiers sometimes known as "stabilizers" may be added to ensure isotonicity of liquid compositions of the present invention and include polhydric sugar alcohols, preferably trihydric or higher sugar alcohols, such as glycerin, erythritol, arabitol, xylitol, sorbitol and mannitol.

Stabilizers refer to a broad category of excipients which can range in function from a bulking agent to an additive which solubilizes the therapeutic agent or helps to prevent denaturation or adherence to the container wall. Typical stabilizers can be polyhydric sugar alcohols (enumerated above); amino acids such as arginine, lysine, glycine, glutamine, asparagine, histidine, alanine, ornithine, L-leucine, 2-phenylalanine, glutamic acid, threonine, etc., organic sugars or sugar alcohols, such as lactose, trehalose, stachyose, mannitol, sorbitol, xylitol, ribitol, myoinisitol, galactitol, glycerol and the like, including cyclitols such as inositol; polyethylene glycol; amino acid polymers; sulfur containing reducing agents, such as urea, glutathione, thioctic acid, sodium thioglycolate, thioglycerol, .alpha.-monothioglycerol and sodium thio sulfate; low molecular weight polypeptides (i.e. <10 residues); proteins such as human serum albumin, bovine serum albumin, gelatin or immunoglobulins; hydrophylic polymers, such as polyvinylpyrrolidone monosaccharides, such as xylose, mannose, fructose, glucose; disaccharides such as lactose, maltose, sucrose and trisaccacharides such as raffinose;

polysaccharides such as dextran. Stabilizers may be present in the range from 0.1 to 10,000 weights per part of weight active protein.

Non-ionic surfactants or detergents (also known as "wetting agents") may be added to help solubilize the therapeutic agent as well as to protect the therapeutic protein against agitation-induced aggregation, which also permits the formulation to be exposed to shear surface stressed without causing denaturation of the protein. Suitable non-ionic surfactants include polysorbates (20, 80, etc.), polyoxamers (184, 188 etc.), Pluronic.R.TM. polyols, polyoxyethylene sorbitan monoethers (Tween.RTM.-20, Tween.R.TM.-80, etc.). Non-ionic surfactants may be present in a range of about 0.05 mg/ml to about 1.0 mg/ml, preferably about 0.07 mg/ml to about 0.2 mg/ml.

Additional miscellaneous excipients include bulking agents, (e.g. starch), chelating agents (e.g. EDTA), antioxidants (e.g., ascorbic acid, methionine, vitamin E), and cosolvents. The formulation herein may also contain more than one active compound as necessary for the particular indication being treated, preferably those with complementary activities that do not adversely affect each other. For example, it may be desireable to further provide an immunosuppressive agent. Such molecules are suitably present in combination in amounts that are effective for the purpose intended. The active ingredients may also be entrapped in microcapsule prepared, for example, by coascervation techniques or by interfacial polymerization, for example, hydroxymethylcellulose or gelatin-microcapsule and poly-(methylmethacylate) microcapsule, respectively, in colloidal drug delivery systems (for example, liposomes, albumin micropheres, microemulsions, nano-particles and nanocapsules) or in macroemulsions. Such techniques are disclosed in Remington 's Pharmaceutical Sciences, 16th edition, A. Osal, Ed. (1980).

The formulations to be used for in vivo administration must be sterile. This is readily accomplished, for example, by filtration through sterile filtration membranes. Sustained-release preparations may be prepared. Suitable examples of sustained-release preparations include semi-permeable matrices of solid hydrophobic polymers containing the antibody, or antibody variant or fragment (e.g. antigen-binding fragment) thereof, which matrices are in the form of shaped articles, e.g., films, or microcapsules. Examples of sustained-release matrices include polyesters, hydrogels (for example, poly(2-hydroxyethyl-methacrylate), or poly(vinylalcohol)), polylactides (U.S. Pat. No. 3,773,919), copolymers of L-glutamic acid and ethyl-L-glutamate, non-degradable ethylene-vinyl acetate, degradable lactic acid-glycolic acid copolymers such as the LUPRON DEPOT™ (injectable microspheres composed of lactic acid-glycolic acid copolymer and leuprolide acetate), and poly-D-(-)-3-hydroxybutyric acid. While polymers such as ethylene-

vinyl acetate and lactic acid-glycolic acid enable release of molecules for over 100 days, certain hydrogels release proteins for shorter time periods. When encapsulated antibodies remain in the body for a long time, they may denature or aggregate as a result of exposure to moisture at 37 °C resulting in a loss of biological activity and possible changes in immunogenicity. Rational strategies can be devised for stabilization depending on the mechanism involved. For example, if the aggregation mechanism is discovered to be intermolecular S--S bond formation through thio-disulfide interchange, stabilization may be achieved by modifying sulfhydryl residues, lyophilizing from acidic solutions, controlling moisture content, using appropriate additives, and developing specific polymer matrix compositions.

The compounds that can be identified by the method of the present invention for prevention or treatment of an ocular disease or condition are typically administered by ocular, intraocular, and/or intravitreal injection, and/or juxtascleral injection, and/or subtenon injection, and/or superchoroidal injection and/or topical administration in the form of eyedrops and/or ointment. Such compounds of the invention may be delivered by a variety of methods, e.g. intravitreally as a device and/or a depot that allows for slow release of the compound into the vitreous, including those described in references such as Intraocular Drug Delivery, Jaffe, Jaffe, Ashton, and Pearson, editors, Taylor & Francis (March 2006). In one example, a device may be in the form of a minpump and/or a matrix and/or a passive diffusion system and/or encapsulated cells that release the compound for a prolonged period of time (Intraocular Drug Delivery, Jaffe, Jaffe, Ashton, and Pearson, editors, Taylor & Francis (March 2006). Other methods of administration may also be used, which includes but is not limited to, topical, parenteral, subcutaneous, intraperitoneal, intrapulmonary, intranasal, and intralesional administration. Parenteral infusions include intramuscular, intravenous, intraarterial, intraperitoneal, or subcutaneous administration.

Formulations for ocular, intraocular or intravitreal administration can be prepared by methods and using ingredients known in the art. A main requirement for efficient treatment is proper penetration through the eye. Unlike diseases of the front of the eye, where drugs can be delivered topically, retinal diseases require a more site-specific approach. Eye drops and ointments rarely penetrate the back of the eye, and the blood-ocular barrier hinders penetration of systemically administered drugs into ocular tissue. Accordingly, usually the method of choice for drug delivery to treat retinal disease, such as AMD and CNV, is direct intravitreal injection. Intravitrial injections are usually repeated at intervals which depend on the patient's condition, and the properties and half-life of the drug delivered. For intraocular (e.g. intravitreal) penetration, usually molecules of smaller size are preferred.

The efficacy of the treatment of complement-associated eye conditions, such as AMD or CNV, can be measured by various endpoints commonly used in evaluating intraocular diseases. For example, vision loss can be assessed. Vision loss can be evaluated by, but not limited to, e.g., measuring by the mean change in best correction visual acuity (BCVA) from baseline to a desired time point (e.g., where the BCVA is based on Early Treatment Diabetic Retinopathy Study (ETDRS) visual acuity chart and assessment at a test distance of 4 meters), measuring the proportion of subjects who lose fewer than 15 letters in visual acuity at a desired time point compared to baseline, measuring the proportion of subjects who gain greater than or equal to 15 letters in visual acuity at a desired time point compared to baseline, measuring the proportion of subjects with a visual-acuity Snellen equivalent of 20/2000 or worse at a desired time point, measuring the NEI Visual Functioning Questionnaire, measuring the size of CNV and amount of leakage of CNV at a desired time point, e.g., by fluorescein angiography, etc. Ocular assessments can be done, e.g., which include, but are not limited to, e.g., performing eye exam, measuring intraocular pressure, assessing visual acuity, measuring slitlamp pressure, assessing intraocular inflammation, etc.

The amount of therapeutic polypeptide, antibody, or antibody variant thereof, or fragment thereof (e.g antigen-binding fragment) which will be effective in the treatment of a particular disorder or condition will depend on the nature of the disorder or condition, and can be determined by standard clinical techniques. Where possible, it is desirable to determine the dose-response curve and the pharmaceutical compositions of the invention first in vitro, and then in useful animal model systems prior to testing in humans.

In one embodiment, an aqueous solution of therapeutic polypeptide, antibody, or antibody variant thereof, or fragment thereof (e.g. antigen-binding fragment), is administered by subcutaneous injection. In another embodiment, an aqueous solution of therapeutic polypeptide, antibody, or antibody variant thereof, or fragment thereof (e.g. antigen-binding fragment) is administered by intravitreal injection. Each dose may range from about 0.5 .mu.g to about 50 .mu.g per kilogram of body weight, or more preferably, from about 3 .mu.g to about 30 .mu.g per kilogram body weight.

The dosing schedule for subcutaneous administration may vary form once a month to daily depending on a number of clinical factors, including the type of disease, severity of disease, and the subject's sensitivity to the therapeutic agent.

The following examples are offered for illustrative purposes only, and are not intended to limit the scope of the present invention in any way.

All patent and literature references cited in the present specification are hereby expressly incorporated by reference in their entirety.

Example 1

Determination of Co-Crystal Structure of Factor D and Anti-Factor D Antibody

Both human and cyno factor D were expressed in Chinese Hamster Ovary (CHO) cells. Purification was performed by passing the CHO cell supernatant over an anti-Factor D affinity column. Proteins were eluted with 0.1 M acidic and with 4% v/v 1.5 M Tris pH 8.6 and dialyzed in a buffer containing 10 mM Hepes pH 7.2 with 140 mM NaCl. Anti-factor D Fab were provided in lyophilized formulation and reconstituted with water. Resulting solution is 50mg/mL protein in 40 mM Histidine Hydrochloride, 20 mM Sodium Chloride, 180 mM Sucrose, 0.04% (w/v) polysorbate 20, pH 5.4.

Human factor D protein and anti-factor D Fab were mixed 1:1 ratio and purified over a Superdex 200 column pre-equilibrated with 20 mM hepes, pH 7.2 and 200 mM NaCl. The peak fractions containing the complex were pooled, concentrated to 30 mg/ml and used in crystallization trial. Crystals were grown at 4°C using vapor diffusion method in sitting drops. Crystallization buffer containing 0.1 M TrisCl, pH 8.5, 0.2 M ammonium phosphate, 50% MPD and 0.01 M hexamine cobalt (III) chloride was mixed in equal volume with protein solution. Crystals appeared after 6 days and belonged to space group $P4_32_12$. The crystals were flash frozen in liquid nitrogen. A 2.4Å data set was collected at SSRL Synchrotron Source on beam line 9-2.

The cyno factor D/anti-factor D Fab complex was purified following the same protocol as described above. Crystals used in the structure determination were grown at 19°C from the following condition: 0.1 M MES pH 6.5, 25% PEG 550 MME, 0.01 M zinc sulfate and 3% 6-aminohexanoic acid using vapor diffusion method in sitting drops containing equal volume of protein solution (20 mg/ml) and mother liquor. The crystals appeared after 1 day and belonged to space group C2 with cell dimensions of a=132.048, b=132.048; c=180.288 Å for human Factor D:Fab complex, and a=182.205; b=80.673; c=142.575 Å for cyno factor D:Fab complex. The crystals were dipped in artificial mother liquor containing 10% glycerol and flash frozen in liquid nitrogen. A 2.1Å data set was collected at an SSRL Synchrotron Source on beam line 9-2.

Example 2

Preparation of catalytically inactive Factor D protein

Full-length factor D cDNA was cloned into a pRK expression vector. Residue S208 (from starting methionine; S195 using trypsin numbering), which is part of the catalytic triad,

was mutated to an alanine using QuickChange XL Site Directed Mutagenesis kit following manufactures instructions (Stratagene (Agilent), Santa Clara, CA). Protein was expressed in CHO cells and purified by passing supernatant multiple times over an Affi-Gel 10 (Bio-Rad) coupled with 26 mg/ml anti-Factor D antibody and eluted at pH 3.0. Proteins were further purified using a secondary 10/10 MonoS pH 6.0 column, concentrated with an Amicon Ultra-10 kD centrifugation filter (Millipore, Billerica, MA) and dialyzed in PBS. Protein sequence was verified with N-terminal sequencing using MALDI mass spectrometry.

Example 3

Blocking of factor B cleavage by anti-Factor D antibody in a fluid phase alternative pathway C3 convertase assay

The assay buffer was 0.1% gelatin veronal buffer/10 mM $MgCl_{2,}$, final concentration of components were 0.125 μM Factor D, 0.5 μM factor B, 0.5 μM C3b and 5 μM Fab antibodies (anti-Factor D, 8E2, control human Fab). 10 μl Factor D (0.5 μM) and 10 μl Fab (20 μM) were mixed for 15 min. 10 μl Factor B (2 μM) and 10 μl C3b (2 μM) were added to Factor D-Fab mixture and incubated for 30 minutes at 37C. 40 μl Lammeli's buffer was added to stop the reaction. Samples were boiled for 5 minutes and run on a Novex 4-20% Tris-glycine polyacrylamide gel for 1.5 hours at 125 mV (SeeBlue2 MW marker). Gels were stained for one hour with SimplyBlue SafeStain, washed overnight with double distilled water and dried between Cellophane. As shown in Figure 21, factor B cleavage was blocked by the anti-Factor D antibody but not by 8E2 . The results show that the anti-factor D antibody blocks cleavage of factor B in a fluid phase alternative pathway C3 convertase assay.

Example 4

Factor D (S208A) binds pro-convertase with an affinity of 772 nM (Bioacore analysis)

Binding analysis was performed on Biacore 3000. C3b was amine coupled to CM5 chip following manufacturer's recommendation. The CM5 chip was activated with N-hydroxyl succinimide and N-ethyl-N'-(dimethylaminopropyl)-carbodiimide, flow 5 μl/min, 30 μl. C3b (50 μg/ml) was flowed for 5 μl/min, 20 μl to achieve 7300 RU final. Factor B, Factor D, anti-Factor D antibody and 8E2 Fab fragment proteins and antibodies were buffer exchanged using GE Healthcare's AKTA in assay buffer: veronal buffer/1 mM $NiCl_2$/0.05% Surfactant P-20. Binding assays used "Coinject" program. One μM factor B was injected (flow 30 μl/minute, 90 μl) followed by coinject mix of 1 μM factor B and Factor D dilutions (flow 30 μl/minute, 90 μl) then allowed to dissociate in assay buffer for 5 minutes. Chip was regenerated with three, one minute washes with 3 M NaCl in 50 mM sodium acetate pH 5.0 and washed 5 minutes with

buffer. As shown in Figures 22 and 23, Factor (S208A) binds to C3bB pro-convertase with an affinity of 772 nM as determined by this Biacore analysis.

Example 5

Anti-Factor D antibody blocks Factor D binding

Binding analysis was performed on Biacore 3000. C3b was amine coupled to CM5 chip following manufacturer's recommendation. The CM5 chip was activated with N-hydroxyl succinimide and N-ethyl-N'-(dimethylaminopropyl)-carbodiimide, flow 5 µl/min, 30 µl. C3b (50 µg/ml) was flowed for 5 µl/min, 20 µl to achieve 6020 RU final. Factor B, factor D, anti-Factor D antibody and 8E2 Fab fragment proteins and antibodies were buffer exchanged using GE Healthcare's AKTA in assay buffer: veronal buffer/1 mM $NiCl_2$/0.05% Surfactant P-20. Binding assays used "Coinject" program. One µM factor B was injected (flow 30 µl/minute, 90 µl) followed by coinject mix of 1 µM factor B, 1 µM Factor D and Fab antibody dilutions (flow 30 µl/minute, 90 µl) then allowed to dissociate in assay buffer for 5 minutes. Chip was regenerated with three, one-minute washes with 3 M NaCl in 50 mM sodium acetate pH 5.0 and washed 5 minutes with buffer. As shown in Figures 24 and 25, the anti-Factor D antibody blocked Factor D (S208A) binding to C3bB pro-convertase.

Example 5

Anti-Factor D antibody does not affect catalytic cleavage

Small substrates are efficiently cleaved by Factor D bound to anti-Factor D antibody confirming the absence of major conformational changes in the Factor D active site. Factor D hydrolysis of thioester benzyl substrate Z-Lys-SBzl was measured using DTNB (Ellman's reagent (5,5'-dithiobis-(2-nitrobenzoic acid)) in assay buffer 50 mM HEPES pH7.5/220 mM NaCl. Stock solutions of 3.2 mM Z-lys-SBzl in DMSO (dimethyl sulfoxide), 320 nM Factor D proteins (Genentech), 3.2 µM antibodies and 8 mM DTNB in assay buffer, and 200 mM DIFP (diisopropyl fluorophosphates) in isopropanol were made. Assay volume was 200 µl in assay buffer with final concentrations of 2 mM DTNB, 800 nM Z-Lys-SBzl, 80 nM Factor D, 800 uM antibodies or 20 mM DIFP. Hydrolosis rates were measured in a Spectramax Plus 384 spectrophotometer at 450 nm for 1.5 hours, readings taken every 15 seconds and Vmax calculated using SoftMax Pro v5.2 software.

Figures 26 and 27 show that the anti-Factor D antibody does not affect catalytic cleavage.

Figure 28 is a hypothetical model depicting how an anti-Factor D antibody inhibits Factor B activation. The anti-Factor D antibody sterically inhibits docking of Factor D to factor B, preventing activation of factor B and formation of an active C3 convertase.

human fD_Fab

Appendix 1A: Structural coordinates human factor D : anti factor D Fab

```
REMARK   3 REFINEMENT.
REMARK   3   PROGRAM     : REFMAC 5.2.0019
REMARK   3   AUTHORS     : MURSHUDOV,VAGIN,DODSON
REMARK   3
REMARK   3    REFINEMENT TARGET : MAXIMUM LIKELIHOOD
REMARK   3
REMARK   3  DATA USED IN REFINEMENT.
REMARK   3   RESOLUTION RANGE HIGH (ANGSTROMS) :   2.42
REMARK   3   RESOLUTION RANGE LOW  (ANGSTROMS) :  20.00
REMARK   3   DATA CUTOFF            (SIGMA(F)) : NONE
REMARK   3   COMPLETENESS FOR RANGE        (%) :  98.65
REMARK   3   NUMBER OF REFLECTIONS             :   57310
REMARK   3
REMARK   3  FIT TO DATA USED IN REFINEMENT.
REMARK   3   CROSS-VALIDATION METHOD           : THROUGHOUT
REMARK   3   FREE R VALUE TEST SET SELECTION   : RANDOM
REMARK   3   R VALUE     (WORKING + TEST SET) : 0.21584
REMARK   3   R VALUE           (WORKING SET) :  0.21286
REMARK   3   FREE R VALUE                     :  0.27248
REMARK   3   FREE R VALUE TEST SET SIZE   (%) :  5.1
REMARK   3   FREE R VALUE TEST SET COUNT      :  3064
REMARK   3
REMARK   3  FIT IN THE HIGHEST RESOLUTION BIN.
REMARK   3   TOTAL NUMBER OF BINS USED           :      25
REMARK   3   BIN RESOLUTION RANGE HIGH           :    2.420
REMARK   3   BIN RESOLUTION RANGE LOW            :    2.469
REMARK   3   REFLECTION IN BIN     (WORKING SET) :     3329
REMARK   3   BIN COMPLETENESS (WORKING+TEST) (%) :    99.35
REMARK   3   BIN R VALUE           (WORKING SET) :    0.298
REMARK   3   BIN FREE R VALUE SET COUNT          :      174
REMARK   3   BIN FREE R VALUE                    :    0.413
REMARK   3
REMARK   3  NUMBER OF NON-HYDROGEN ATOMS USED IN REFINEMENT.
REMARK   3   ALL ATOMS                 :    10273
REMARK   3
REMARK   3  B VALUES.
REMARK   3   FROM WILSON PLOT           (A**2) : NULL
REMARK   3   MEAN B VALUE      (OVERALL, A**2) :  38.909
REMARK   3   OVERALL ANISOTROPIC B VALUE.
REMARK   3    B11 (A**2) :    -2.06
REMARK   3    B22 (A**2) :    -2.06
REMARK   3    B33 (A**2) :     4.11
REMARK   3    B12 (A**2) :     0.00
REMARK   3    B13 (A**2) :     0.00
REMARK   3    B23 (A**2) :     0.00
REMARK   3
REMARK   3  ESTIMATED OVERALL COORDINATE ERROR.
REMARK   3   ESU BASED ON R VALUE                                (A):   0.419
REMARK   3   ESU BASED ON FREE R VALUE                           (A):   0.285
REMARK   3   ESU BASED ON MAXIMUM LIKELIHOOD                     (A):   0.220
REMARK   3   ESU FOR B VALUES BASED ON MAXIMUM LIKELIHOOD (A**2):  18.683
REMARK   3
REMARK   3 CORRELATION COEFFICIENTS.
REMARK   3   CORRELATION COEFFICIENT FO-FC      :   0.944
REMARK   3   CORRELATION COEFFICIENT FO-FC FREE :   0.914
REMARK   3
REMARK   3  RMS DEVIATIONS FROM IDEAL VALUES         COUNT    RMS    WEIGHT
REMARK   3   BOND LENGTHS REFINED ATOMS        (A): 10161 ; 0.012 ; 0.022
REMARK   3   BOND LENGTHS OTHERS               (A):  6784 ; 0.002 ; 0.020
REMARK   3   BOND ANGLES REFINED ATOMS   (DEGREES): 13846 ; 1.421 ; 1.959
REMARK   3   BOND ANGLES OTHERS          (DEGREES): 16591 ; 0.940 ; 3.004
REMARK   3   TORSION ANGLES, PERIOD 1    (DEGREES):  1311 ; 9.697 ; 5.000
REMARK   3   TORSION ANGLES, PERIOD 2    (DEGREES):   402 ;37.347 ;24.279
REMARK   3   TORSION ANGLES, PERIOD 3    (DEGREES):  1626 ;17.488 ;15.000
REMARK   3   TORSION ANGLES, PERIOD 4    (DEGREES):    54 ;16.500 ;15.000
REMARK   3   CHIRAL-CENTER RESTRAINTS       (A**3):  1574 ; 0.079 ; 0.200
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REMARK   3   GENERAL PLANES REFINED ATOMS      (A): 11375 ; 0.005 ; 0.020
REMARK   3   GENERAL PLANES OTHERS             (A):  1933 ; 0.002 ; 0.020
REMARK   3   NON-BONDED CONTACTS REFINED ATOMS (A):  1764 ; 0.201 ; 0.200
REMARK   3   NON-BONDED CONTACTS OTHERS        (A):  7017 ; 0.201 ; 0.200
REMARK   3   NON-BONDED TORSION REFINED ATOMS  (A):  4720 ; 0.173 ; 0.200
REMARK   3   NON-BONDED TORSION OTHERS         (A):  5711 ; 0.086 ; 0.200
REMARK   3   H-BOND (X...Y) REFINED ATOMS      (A):   423 ; 0.175 ; 0.200
REMARK   3   H-BOND (X...Y) OTHERS             (A):     3 ; 0.207 ; 0.200
REMARK   3   SYMMETRY VDW REFINED ATOMS        (A):    29 ; 0.218 ; 0.200
REMARK   3   SYMMETRY VDW OTHERS               (A):    88 ; 0.259 ; 0.200
REMARK   3   SYMMETRY H-BOND REFINED ATOMS     (A):    12 ; 0.284 ; 0.200
REMARK   3
REMARK   3  ISOTROPIC THERMAL FACTOR RESTRAINTS.     COUNT   RMS    WEIGHT
REMARK   3   MAIN-CHAIN BOND REFINED ATOMS  (A**2):  8380 ; 3.169 ; 2.500
REMARK   3   MAIN-CHAIN BOND OTHER ATOMS    (A**2):  2669 ; 0.624 ; 2.500
REMARK   3   MAIN-CHAIN ANGLE REFINED ATOMS (A**2): 10576 ; 4.155 ; 5.000
REMARK   3   SIDE-CHAIN BOND REFINED ATOMS  (A**2):  4199 ; 3.191 ; 2.500
REMARK   3   SIDE-CHAIN ANGLE REFINED ATOMS (A**2):  3270 ; 4.451 ; 5.000
REMARK   3
REMARK   3  NCS RESTRAINTS STATISTICS
REMARK   3   NUMBER OF DIFFERENT NCS GROUPS :   3
REMARK   3
REMARK   3  NCS GROUP NUMBER                 :   1
REMARK   3     CHAIN NAMES                   : A B
REMARK   3     NUMBER OF COMPONENTS NCS GROUP :    1
REMARK   3       COMPONENT C  SSSEQI  TO  C   SSSEQI   CODE
REMARK   3           1     A     16       A     243      3
REMARK   3           1     B     16       B     243      3
REMARK   3                   GROUP CHAIN         COUNT   RMS     WEIGHT
REMARK   3   TIGHT POSITIONAL   1    A    (A):   1331 ;  0.05 ;  0.05
REMARK   3   LOOSE POSITIONAL   1    A    (A):   1573 ;  0.32 ;  5.00
REMARK   3   TIGHT THERMAL      1    A (A**2):   1331 ;  0.13 ;  0.50
REMARK   3   LOOSE THERMAL      1    A (A**2):   1573 ;  2.90 ; 10.00
REMARK   3
REMARK   3  NCS GROUP NUMBER                 :   2
REMARK   3     CHAIN NAMES                   : L D
REMARK   3     NUMBER OF COMPONENTS NCS GROUP :    2
REMARK   3       COMPONENT C  SSSEQI  TO  C   SSSEQI   CODE
REMARK   3           1     L      1       L     109      3
REMARK   3           1     D      1       D     109      3
REMARK   3           2     L    110       L     214      3
REMARK   3           2     D    110       D     214      3
REMARK   3                   GROUP CHAIN         COUNT   RMS     WEIGHT
REMARK   3   TIGHT POSITIONAL   2    L    (A):   1250 ;  0.04 ;  0.05
REMARK   3   LOOSE POSITIONAL   2    L    (A):   1480 ;  0.46 ;  5.00
REMARK   3   TIGHT THERMAL      2    L (A**2):   1250 ;  0.16 ;  0.50
REMARK   3   LOOSE THERMAL      2    L (A**2):   1480 ;  3.01 ; 10.00
REMARK   3
REMARK   3  NCS GROUP NUMBER                 :   3
REMARK   3     CHAIN NAMES                   : H E
REMARK   3     NUMBER OF COMPONENTS NCS GROUP :    2
REMARK   3       COMPONENT C  SSSEQI  TO  C   SSSEQI   CODE
REMARK   3           1     H      1       H     120      3
REMARK   3           1     E      1       E     120      3
REMARK   3           2     H    121       H     224      3
REMARK   3           2     E    121       E     224      3
REMARK   3                   GROUP CHAIN         COUNT   RMS     WEIGHT
REMARK   3   TIGHT POSITIONAL   3    H    (A):   1262 ;  0.07 ;  0.05
REMARK   3   LOOSE POSITIONAL   3    H    (A):   1444 ;  0.52 ;  5.00
REMARK   3   TIGHT THERMAL      3    H (A**2):   1262 ;  0.14 ;  0.50
REMARK   3   LOOSE THERMAL      3    H (A**2):   1444 ;  2.53 ; 10.00
REMARK   3
REMARK   3
REMARK   3  TLS DETAILS
REMARK   3   NUMBER OF TLS GROUPS  :    1
REMARK   3   ATOM RECORD CONTAINS RESIDUAL B FACTORS ONLY
REMARK   3
REMARK   3   TLS GROUP :     1
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REMARK   3    NUMBER OF COMPONENTS GROUP :   10
REMARK   3    COMPONENTS        C SSSEQI   TO  C SSSEQI
REMARK   3    RESIDUE RANGE :   A    16        A   243
REMARK   3    RESIDUE RANGE :   L     1        L   109
REMARK   3    RESIDUE RANGE :   L   110        L   214
REMARK   3    RESIDUE RANGE :   H     1        H   120
REMARK   3    RESIDUE RANGE :   H   121        H   224
REMARK   3    RESIDUE RANGE :   B    16        B   243
REMARK   3    RESIDUE RANGE :   D     1        D   109
REMARK   3    RESIDUE RANGE :   D   110        D   214
REMARK   3    RESIDUE RANGE :   E     1        E   120
REMARK   3    RESIDUE RANGE :   E   121        E   224
REMARK   3    ORIGIN FOR THE GROUP (A): -29.9532   3.2516 -32.8996
REMARK   3    T TENSOR
REMARK   3      T11:  -0.0677 T22:  -0.0717
REMARK   3      T33:  -0.0051 T12:   0.0211
REMARK   3      T13:   0.0318 T23:   0.0562
REMARK   3    L TENSOR
REMARK   3      L11:   0.0559 L22:   0.1507
REMARK   3      L33:   0.2071 L12:  -0.0360
REMARK   3      L13:  -0.0974 L23:   0.1319
REMARK   3    S TENSOR
REMARK   3      S11:  -0.0182 S12:  -0.0019 S13:   0.0558
REMARK   3      S21:  -0.0609 S22:  -0.0301 S23:   0.0813
REMARK   3      S31:  -0.0569 S32:  -0.1069 S33:   0.0484
REMARK   3
REMARK   3
REMARK   3  BULK SOLVENT MODELLING.
REMARK   3   METHOD USED :  MASK
REMARK   3   PARAMETERS FOR MASK CALCULATION
REMARK   3   VDW PROBE RADIUS   :   1.40
REMARK   3   ION PROBE RADIUS   :   0.80
REMARK   3   SHRINKAGE RADIUS   :   0.80
REMARK   3
REMARK   3  OTHER REFINEMENT REMARKS:
REMARK   3  HYDROGENS HAVE BEEN ADDED IN THE RIDING POSITIONS
REMARK   3
SSBOND   1 CYS A   41    CYS A   57
SSBOND   2 CYS A  138    CYS A  204
SSBOND   3 CYS A  169    CYS A  185
SSBOND   4 CYS A  194    CYS A  219
SSBOND   5 CYS L   23    CYS L   88
SSBOND   6 CYS L  134    CYS L  194
SSBOND   7 CYS H   22    CYS H   96
SSBOND   8 CYS H  148    CYS H  204
SSBOND   9 CYS B   41    CYS B   57
SSBOND  10 CYS B  138    CYS B  204
SSBOND  11 CYS B  169    CYS B  185
SSBOND  12 CYS B  194    CYS B  219
SSBOND  13 CYS E   22    CYS E   96
SSBOND  14 CYS E  148    CYS E  204
SSBOND  15 CYS D   23    CYS D   88
SSBOND  16 CYS D  134    CYS D  194
SSBOND  17 CYS L  214    CYS H  224
CISPEP   1 ALA A   61    ALA A   62                      0.00
CISPEP   2 SER L    7    PRO L    8                      0.00
CISPEP   3 LEU L   94    PRO L   95                      0.00
CISPEP   4 TYR L  140    PRO L  141                      0.00
CISPEP   5 GLU H   99    GLY H  100                      0.00
CISPEP   6 PHE H  154    PRO H  155                      0.00
CISPEP   7 GLU H  156    PRO H  157                      0.00
CISPEP   8 ARG B  151    ARG B  152                      0.00
CISPEP   9 GLU E   99    GLY E  100                      0.00
CISPEP  10 PHE E  154    PRO E  155                      0.00
CISPEP  11 GLU E  156    PRO E  157                      0.00
CISPEP  12 SER D    7    PRO D    8                      0.00
CISPEP  13 LEU D   94    PRO D   95                      0.00
CISPEP  14 TYR D  140    PRO D  141                      0.00
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LINK         C   GLY H 101                 N   VAL H 108                 TRANS
LINK         C   GLY E 101                 N   VAL E 108                 TRANS
CRYST1  132.048  132.048  180.288  90.00  90.00  90.00 P 43 21 2
SCALE1      0.007573  0.000000  0.000000        0.00000
SCALE2      0.000000  0.007573  0.000000        0.00000
SCALE3      0.000000  0.000000  0.005547        0.00000
ATOM      1  N   ILE A  16     -35.933  24.398   8.493  1.00 36.83      A    N
ATOM      2  CA  ILE A  16     -36.360  23.498   7.363  1.00 41.06      A    C
ATOM      4  CB  ILE A  16     -37.627  22.666   7.743  1.00 34.42      A    C
ATOM      6  CG1 ILE A  16     -37.370  21.869   9.023  1.00 32.96      A    C
ATOM      9  CD1 ILE A  16     -36.159  20.919   8.948  1.00 27.50      A    C
ATOM     13  CG2 ILE A  16     -38.055  21.731   6.587  1.00 32.42      A    C
ATOM     17  C   ILE A  16     -36.638  24.279   6.067  1.00 41.65      A    C
ATOM     18  O   ILE A  16     -37.532  25.114   6.024  1.00 40.98      A    O
ATOM     22  N   LEU A  17     -35.864  23.993   5.023  1.00 43.46      A    N
ATOM     23  CA  LEU A  17     -35.991  24.686   3.739  1.00 43.61      A    C
ATOM     25  CB  LEU A  17     -34.611  25.096   3.210  1.00 42.45      A    C
ATOM     28  CG  LEU A  17     -34.473  25.839   1.879  1.00 42.83      A    C
ATOM     30  CD1 LEU A  17     -33.414  26.949   2.005  1.00 45.73      A    C
ATOM     34  CD2 LEU A  17     -34.102  24.909   0.733  1.00 37.92      A    C
ATOM     38  C   LEU A  17     -36.686  23.786   2.736  1.00 43.19      A    C
ATOM     39  O   LEU A  17     -36.436  22.586   2.693  1.00 39.42      A    O
ATOM     41  N   GLY A  18     -37.579  24.376   1.941  1.00 43.33      A    N
ATOM     42  CA  GLY A  18     -38.346  23.633   0.963  1.00 44.58      A    C
ATOM     45  C   GLY A  18     -39.255  22.603   1.602  1.00 46.38      A    C
ATOM     46  O   GLY A  18     -39.563  21.580   1.004  1.00 46.62      A    O
ATOM     48  N   GLY A  19     -39.690  22.881   2.821  1.00 49.02      A    N
ATOM     49  CA  GLY A  19     -40.616  22.016   3.517  1.00 52.22      A    C
ATOM     52  C   GLY A  19     -41.939  22.738   3.649  1.00 55.09      A    C
ATOM     53  O   GLY A  19     -42.236  23.661   2.880  1.00 52.71      A    O
ATOM     55  N   ARG A  20     -42.724  22.321   4.635  1.00 55.28      A    N
ATOM     56  CA  ARG A  20     -44.012  22.941   4.907  1.00 58.38      A    C
ATOM     58  CB  ARG A  20     -45.077  22.319   4.017  1.00 63.11      A    C
ATOM     61  CG  ARG A  20     -45.396  20.887   4.354  1.00 64.33      A    C
ATOM     64  CD  ARG A  20     -45.978  20.194   3.154  1.00 68.28      A    C
ATOM     67  NE  ARG A  20     -46.607  18.929   3.511  1.00 72.11      A    N
ATOM     69  CZ  ARG A  20     -47.381  18.221   2.696  1.00 74.91      A    C
ATOM     70  NH1 ARG A  20     -47.629  18.649   1.458  1.00 76.67      A    N
ATOM     73  NH2 ARG A  20     -47.911  17.077   3.118  1.00 74.61      A    N
ATOM     76  C   ARG A  20     -44.379  22.749   6.364  1.00 55.89      A    C
ATOM     77  O   ARG A  20     -43.754  21.946   7.051  1.00 54.18      A    O
ATOM     79  N   GLU A  21     -45.389  23.485   6.824  1.00 53.26      A    N
ATOM     80  CA  GLU A  21     -45.786  23.456   8.231  1.00 51.44      A    C
ATOM     82  CB  GLU A  21     -46.968  24.386   8.502  1.00 50.34      A    C
ATOM     85  CG  GLU A  21     -47.146  24.710   9.982  1.00 49.81      A    C
ATOM     88  CD  GLU A  21     -48.394  25.525  10.277  1.00 49.85      A    C
ATOM     89  OE1 GLU A  21     -48.805  26.356   9.427  1.00 46.48      A    O
ATOM     90  OE2 GLU A  21     -48.955  25.335  11.377  1.00 44.76      A    O
ATOM     91  C   GLU A  21     -46.172  22.062   8.690  1.00 48.95      A    C
ATOM     92  O   GLU A  21     -46.926  21.348   8.014  1.00 48.12      A    O
ATOM     94  N   ALA A  22     -45.676  21.686   9.859  1.00 47.00      A    N
ATOM     95  CA  ALA A  22     -46.043  20.423  10.461  1.00 47.91      A    C
ATOM     97  CB  ALA A  22     -45.055  20.055  11.535  1.00 44.41      A    C
ATOM    101  C   ALA A  22     -47.472  20.504  11.025  1.00 50.30      A    C
ATOM    102  O   ALA A  22     -47.977  21.595  11.336  1.00 46.54      A    O
ATOM    104  N   GLU A  23     -48.132  19.352  11.121  1.00 52.50      A    N
ATOM    105  CA  GLU A  23     -49.432  19.266  11.787  1.00 51.01      A    C
ATOM    107  CB  GLU A  23     -50.137  17.939  11.493  1.00 54.61      A    C
ATOM    110  CG  GLU A  23     -51.582  17.847  12.059  1.00 57.03      A    C
ATOM    113  CD  GLU A  23     -52.046  16.406  12.309  1.00 58.09      A    C
ATOM    114  OE1 GLU A  23     -51.696  15.515  11.499  1.00 60.27      A    O
ATOM    115  OE2 GLU A  23     -52.758  16.167  13.313  1.00 55.07      A    O
ATOM    116  C   GLU A  23     -49.185  19.419  13.281  1.00 49.17      A    C
ATOM    117  O   GLU A  23     -48.361  18.709  13.858  1.00 49.61      A    O
ATOM    119  N   ALA A  24     -49.890  20.358  13.895  1.00 49.19      A    N
ATOM    120  CA  ALA A  24     -49.694  20.695  15.300  1.00 46.33      A    C
ATOM    122  CB  ALA A  24     -50.772  21.641  15.766  1.00 39.76      A    C
ATOM    126  C   ALA A  24     -49.652  19.477  16.198  1.00 46.69      A    C
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ATOM	127	O	ALA	A	24	-50.564	18.660	16.192	1.00	50.29	A	O
ATOM	129	N	HIS	A	25	-48.558	19.345	16.938	1.00	49.73	A	N
ATOM	130	CA	HIS	A	25	-48.395	18.314	17.966	1.00	48.10	A	C
ATOM	132	CB	HIS	A	25	-49.397	18.567	19.099	1.00	43.11	A	C
ATOM	135	CG	HIS	A	25	-49.495	20.008	19.511	1.00	37.95	A	C
ATOM	136	ND1	HIS	A	25	-50.596	20.786	19.225	1.00	34.73	A	N
ATOM	138	CE1	HIS	A	25	-50.405	22.007	19.694	1.00	36.64	A	C
ATOM	140	NE2	HIS	A	25	-49.218	22.050	20.275	1.00	34.83	A	N
ATOM	142	CD2	HIS	A	25	-48.627	20.816	20.171	1.00	32.01	A	C
ATOM	144	C	HIS	A	25	-48.464	16.859	17.453	1.00	47.71	A	C
ATOM	145	O	HIS	A	25	-48.643	15.936	18.235	1.00	46.96	A	O
ATOM	147	N	ALA	A	26	-48.298	16.670	16.143	1.00	49.94	A	N
ATOM	148	CA	ALA	A	26	-48.220	15.344	15.525	1.00	49.10	A	C
ATOM	150	CB	ALA	A	26	-48.396	15.463	14.006	1.00	45.29	A	C
ATOM	154	C	ALA	A	26	-46.883	14.661	15.855	1.00	48.93	A	C
ATOM	155	O	ALA	A	26	-46.753	13.450	15.710	1.00	46.39	A	O
ATOM	157	N	ARG	A	27	-45.894	15.458	16.274	1.00	50.65	A	N
ATOM	158	CA	ARG	A	27	-44.578	14.957	16.700	1.00	48.98	A	C
ATOM	160	CB	ARG	A	27	-43.462	15.571	15.856	1.00	45.34	A	C
ATOM	163	CG	ARG	A	27	-43.455	15.075	14.440	1.00	42.94	A	C
ATOM	166	CD	ARG	A	27	-42.647	15.958	13.495	1.00	46.79	A	C
ATOM	169	NE	ARG	A	27	-42.858	15.535	12.101	1.00	48.58	A	N
ATOM	171	CZ	ARG	A	27	-43.946	15.803	11.381	1.00	48.45	A	C
ATOM	172	NH1	ARG	A	27	-44.941	16.518	11.889	1.00	53.38	A	N
ATOM	175	NH2	ARG	A	27	-44.044	15.367	10.141	1.00	49.31	A	N
ATOM	178	C	ARG	A	27	-44.387	15.319	18.159	1.00	46.44	A	C
ATOM	179	O	ARG	A	27	-43.764	16.322	18.473	1.00	45.92	A	O
ATOM	181	N	PRO	A	28	-44.975	14.528	19.060	1.00	46.69	A	N
ATOM	182	CA	PRO	A	28	-44.983	14.892	20.481	1.00	47.13	A	C
ATOM	184	CB	PRO	A	28	-45.903	13.831	21.113	1.00	43.80	A	C
ATOM	187	CG	PRO	A	28	-45.864	12.701	20.182	1.00	45.08	A	C
ATOM	190	CD	PRO	A	28	-45.705	13.277	18.813	1.00	42.33	A	C
ATOM	193	C	PRO	A	28	-43.599	14.902	21.130	1.00	47.05	A	C
ATOM	194	O	PRO	A	28	-43.431	15.489	22.202	1.00	43.54	A	O
ATOM	195	N	TYR	A	29	-42.632	14.259	20.467	1.00	46.51	A	N
ATOM	196	CA	TYR	A	29	-41.254	14.208	20.917	1.00	43.60	A	C
ATOM	198	CB	TYR	A	29	-40.548	13.034	20.252	1.00	41.11	A	C
ATOM	201	CG	TYR	A	29	-40.682	13.000	18.747	1.00	41.48	A	C
ATOM	202	CD1	TYR	A	29	-39.857	13.789	17.923	1.00	40.62	A	C
ATOM	204	CE1	TYR	A	29	-39.991	13.762	16.537	1.00	38.60	A	C
ATOM	206	CZ	TYR	A	29	-40.946	12.948	15.964	1.00	39.38	A	C
ATOM	207	OH	TYR	A	29	-41.085	12.894	14.602	1.00	40.04	A	O
ATOM	209	CE2	TYR	A	29	-41.769	12.169	16.754	1.00	40.97	A	C
ATOM	211	CD2	TYR	A	29	-41.631	12.192	18.139	1.00	39.73	A	C
ATOM	213	C	TYR	A	29	-40.465	15.485	20.643	1.00	45.20	A	C
ATOM	214	O	TYR	A	29	-39.355	15.625	21.154	1.00	45.79	A	O
ATOM	216	N	MET	A	30	-41.017	16.406	19.847	1.00	42.74	A	N
ATOM	217	CA	MET	A	30	-40.245	17.547	19.373	1.00	42.90	A	C
ATOM	219	CB	MET	A	30	-40.876	18.150	18.119	1.00	41.27	A	C
ATOM	222	CG	MET	A	30	-39.958	19.151	17.415	1.00	40.22	A	C
ATOM	225	SD	MET	A	30	-38.685	18.384	16.382	1.00	40.38	A	S
ATOM	226	CE	MET	A	30	-37.448	19.673	16.488	1.00	34.09	A	C
ATOM	230	C	MET	A	30	-40.047	18.618	20.438	1.00	43.81	A	C
ATOM	231	O	MET	A	30	-41.000	19.091	21.039	1.00	51.68	A	O
ATOM	233	N	ALA	A	31	-38.794	19.003	20.647	1.00	42.74	A	N
ATOM	234	CA	ALA	A	31	-38.432	19.985	21.647	1.00	39.26	A	C
ATOM	236	CB	ALA	A	31	-37.511	19.362	22.647	1.00	37.15	A	C
ATOM	240	C	ALA	A	31	-37.763	21.207	21.012	1.00	38.04	A	C
ATOM	241	O	ALA	A	31	-37.117	21.118	19.972	1.00	40.16	A	O
ATOM	243	N	SER	A	32	-37.949	22.358	21.650	1.00	39.48	A	N
ATOM	244	CA	SER	A	32	-37.194	23.562	21.330	1.00	40.05	A	C
ATOM	246	CB	SER	A	32	-38.120	24.764	21.159	1.00	31.57	A	C
ATOM	249	OG	SER	A	32	-37.381	25.934	20.862	1.00	29.36	A	O
ATOM	251	C	SER	A	32	-36.193	23.823	22.443	1.00	41.43	A	C
ATOM	252	O	SER	A	32	-36.576	24.152	23.561	1.00	43.00	A	O
ATOM	254	N	VAL	A	33	-34.910	23.660	22.138	1.00	43.35	A	N
ATOM	255	CA	VAL	A	33	-33.866	24.015	23.076	1.00	42.77	A	C
ATOM	257	CB	VAL	A	33	-32.538	23.246	22.786	1.00	35.75	A	C

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ATOM	259	CG1	VAL	A	33	-31.435	23.711	23.718	1.00	31.25	A	C
ATOM	263	CG2	VAL	A	33	-32.744	21.747	22.890	1.00	28.01	A	C
ATOM	267	C	VAL	A	33	-33.690	25.525	22.960	1.00	44.24	A	C
ATOM	268	O	VAL	A	33	-33.426	26.039	21.880	1.00	39.38	A	O
ATOM	270	N	GLN	A	34	-33.873	26.235	24.069	1.00	48.29	A	N
ATOM	271	CA	GLN	A	34	-33.866	27.707	24.052	1.00	48.04	A	C
ATOM	273	CB	GLN	A	34	-35.238	28.210	24.471	1.00	46.22	A	C
ATOM	276	CG	GLN	A	34	-36.205	28.036	23.344	1.00	47.69	A	C
ATOM	279	CD	GLN	A	34	-37.624	28.395	23.668	1.00	45.26	A	C
ATOM	280	OE1	GLN	A	34	-37.929	29.018	24.697	1.00	49.92	A	O
ATOM	281	NE2	GLN	A	34	-38.514	28.029	22.759	1.00	39.72	A	N
ATOM	284	C	GLN	A	34	-32.763	28.342	24.884	1.00	44.83	A	C
ATOM	285	O	GLN	A	34	-32.353	27.790	25.880	1.00	41.00	A	O
ATOM	287	N	LEU	A	35	-32.280	29.497	24.437	1.00	48.27	A	N
ATOM	288	CA	LEU	A	35	-31.318	30.321	25.184	1.00	48.03	A	C
ATOM	290	CB	LEU	A	35	-29.988	30.434	24.440	1.00	47.03	A	C
ATOM	293	CG	LEU	A	35	-28.845	31.167	25.163	1.00	43.76	A	C
ATOM	295	CD1	LEU	A	35	-28.311	30.330	26.316	1.00	37.77	A	C
ATOM	299	CD2	LEU	A	35	-27.748	31.540	24.206	1.00	41.57	A	C
ATOM	303	C	LEU	A	35	-31.935	31.714	25.381	1.00	51.07	A	C
ATOM	304	O	LEU	A	35	-32.126	32.459	24.413	1.00	48.89	A	O
ATOM	306	N	ASN	A	36	-32.258	32.039	26.633	1.00	52.49	A	N
ATOM	307	CA	ASN	A	36	-32.900	33.303	26.975	1.00	52.72	A	C
ATOM	309	CB	ASN	A	36	-31.951	34.493	26.733	1.00	54.20	A	C
ATOM	312	CG	ASN	A	36	-30.717	34.449	27.628	1.00	54.49	A	C
ATOM	313	OD1	ASN	A	36	-30.816	34.123	28.815	1.00	56.03	A	O
ATOM	314	ND2	ASN	A	36	-29.550	34.764	27.061	1.00	50.10	A	N
ATOM	317	C	ASN	A	36	-34.222	33.492	26.231	1.00	53.80	A	C
ATOM	318	O	ASN	A	36	-34.469	34.542	25.634	1.00	52.37	A	O
ATOM	320	N	GLY	A	37	-35.062	32.457	26.272	1.00	54.17	A	N
ATOM	321	CA	GLY	A	37	-36.386	32.496	25.659	1.00	52.62	A	C
ATOM	324	C	GLY	A	37	-36.444	32.645	24.146	1.00	52.32	A	C
ATOM	325	O	GLY	A	37	-37.482	33.006	23.602	1.00	54.37	A	O
ATOM	327	N	ALA	A	38	-35.338	32.352	23.469	1.00	51.70	A	N
ATOM	328	CA	ALA	A	38	-35.270	32.380	22.008	1.00	50.80	A	C
ATOM	330	CB	ALA	A	38	-34.264	33.422	21.506	1.00	47.75	A	C
ATOM	334	C	ALA	A	38	-34.872	30.994	21.533	1.00	50.65	A	C
ATOM	335	O	ALA	A	38	-33.970	30.366	22.121	1.00	49.42	A	O
ATOM	337	N	HIS	A	39	-35.543	30.511	20.484	1.00	47.04	A	N
ATOM	338	CA	HIS	A	39	-35.213	29.201	19.908	1.00	45.21	A	C
ATOM	340	CB	HIS	A	39	-36.096	28.844	18.708	1.00	40.19	A	C
ATOM	343	CG	HIS	A	39	-35.717	27.549	18.055	1.00	37.56	A	C
ATOM	344	ND1	HIS	A	39	-34.868	27.478	16.967	1.00	34.45	A	N
ATOM	346	CE1	HIS	A	39	-34.692	26.219	16.631	1.00	28.52	A	C
ATOM	348	NE2	HIS	A	39	-35.408	25.467	17.446	1.00	29.74	A	N
ATOM	350	CD2	HIS	A	39	-36.044	26.275	18.356	1.00	31.74	A	C
ATOM	352	C	HIS	A	39	-33.764	29.164	19.468	1.00	41.95	A	C
ATOM	353	O	HIS	A	39	-33.334	29.995	18.693	1.00	42.12	A	O
ATOM	355	N	LEU	A	40	-33.032	28.180	19.970	1.00	41.52	A	N
ATOM	356	CA	LEU	A	40	-31.635	28.003	19.630	1.00	42.84	A	C
ATOM	358	CB	LEU	A	40	-30.805	27.935	20.909	1.00	42.42	A	C
ATOM	361	CG	LEU	A	40	-29.307	27.740	20.722	1.00	43.96	A	C
ATOM	363	CD1	LEU	A	40	-28.681	28.890	19.904	1.00	37.84	A	C
ATOM	367	CD2	LEU	A	40	-28.670	27.569	22.097	1.00	44.98	A	C
ATOM	371	C	LEU	A	40	-31.429	26.751	18.788	1.00	40.59	A	C
ATOM	372	O	LEU	A	40	-30.793	26.808	17.750	1.00	37.72	A	O
ATOM	374	N	CYS	A	41	-31.991	25.634	19.241	1.00	40.38	A	N
ATOM	375	CA	CYS	A	41	-31.834	24.350	18.583	1.00	41.71	A	C
ATOM	377	CB	CYS	A	41	-30.610	23.612	19.159	1.00	41.82	A	C
ATOM	380	SG	CYS	A	41	-29.063	24.158	18.427	1.00	42.74	A	S
ATOM	382	C	CYS	A	41	-33.051	23.440	18.713	1.00	39.02	A	C
ATOM	383	O	CYS	A	41	-33.859	23.579	19.629	1.00	35.68	A	O
ATOM	385	N	GLY	A	42	-33.131	22.484	17.793	1.00	36.94	A	N
ATOM	386	CA	GLY	A	42	-34.081	21.408	17.863	1.00	36.45	A	C
ATOM	389	C	GLY	A	42	-33.619	20.395	18.887	1.00	36.38	A	C
ATOM	390	O	GLY	A	42	-32.480	20.446	19.340	1.00	36.71	A	O
ATOM	392	N	GLY	A	43	-34.513	19.483	19.255	1.00	33.20	A	N
ATOM	393	CA	GLY	A	43	-34.254	18.499	20.285	1.00	36.09	A	C

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ATOM	396	C	GLY	A	43	-35.287	17.396	20.213	1.00	36.63	A	C
ATOM	397	O	GLY	A	43	-36.344	17.551	19.610	1.00	32.97	A	O
ATOM	399	N	VAL	A	44	-34.976	16.259	20.806	1.00	40.42	A	N
ATOM	400	CA	VAL	A	44	-35.892	15.105	20.750	1.00	42.72	A	C
ATOM	402	CB	VAL	A	44	-35.495	14.068	19.606	1.00	39.04	A	C
ATOM	404	CG1	VAL	A	44	-34.023	13.962	19.453	1.00	39.48	A	C
ATOM	408	CG2	VAL	A	44	-36.132	12.711	19.815	1.00	35.34	A	C
ATOM	412	C	VAL	A	44	-36.000	14.499	22.145	1.00	43.25	A	C
ATOM	413	O	VAL	A	44	-35.018	14.038	22.722	1.00	45.23	A	O
ATOM	415	N	LEU	A	45	-37.198	14.575	22.707	1.00	44.58	A	N
ATOM	416	CA	LEU	A	45	-37.507	13.898	23.958	1.00	44.82	A	C
ATOM	418	CB	LEU	A	45	-38.933	14.236	24.415	1.00	43.69	A	C
ATOM	421	CG	LEU	A	45	-39.359	13.737	25.802	1.00	42.46	A	C
ATOM	423	CD1	LEU	A	45	-38.580	14.472	26.878	1.00	38.40	A	C
ATOM	427	CD2	LEU	A	45	-40.877	13.878	26.008	1.00	37.65	A	C
ATOM	431	C	LEU	A	45	-37.357	12.408	23.719	1.00	44.01	A	C
ATOM	432	O	LEU	A	45	-38.074	11.851	22.887	1.00	43.59	A	O
ATOM	434	N	VAL	A	46	-36.385	11.803	24.410	1.00	45.83	A	N
ATOM	435	CA	VAL	A	46	-36.062	10.365	24.303	1.00	47.83	A	C
ATOM	437	CB	VAL	A	46	-34.574	10.140	23.945	1.00	43.57	A	C
ATOM	439	CG1	VAL	A	46	-34.271	10.678	22.546	1.00	38.95	A	C
ATOM	443	CG2	VAL	A	46	-33.643	10.783	25.007	1.00	39.82	A	C
ATOM	447	C	VAL	A	46	-36.377	9.585	25.602	1.00	51.60	A	C
ATOM	448	O	VAL	A	46	-36.467	8.349	25.584	1.00	51.26	A	O
ATOM	450	N	ALA	A	47	-36.515	10.310	26.715	1.00	52.53	A	N
ATOM	451	CA	ALA	A	47	-36.984	9.750	27.976	1.00	52.07	A	C
ATOM	453	CB	ALA	A	47	-35.829	9.361	28.868	1.00	50.19	A	C
ATOM	457	C	ALA	A	47	-37.822	10.790	28.678	1.00	55.24	A	C
ATOM	458	O	ALA	A	47	-37.864	11.958	28.276	1.00	53.14	A	O
ATOM	460	N	GLU	A	48	-38.448	10.359	29.765	1.00	58.81	A	N
ATOM	461	CA	GLU	A	48	-39.405	11.181	30.496	1.00	57.62	A	C
ATOM	463	CB	GLU	A	48	-39.915	10.423	31.730	1.00	63.17	A	C
ATOM	466	CG	GLU	A	48	-41.418	10.444	31.916	1.00	64.56	A	C
ATOM	469	CD	GLU	A	48	-41.871	9.512	33.030	1.00	66.08	A	C
ATOM	470	OE1	GLU	A	48	-42.875	9.827	33.700	1.00	73.81	A	O
ATOM	471	OE2	GLU	A	48	-41.217	8.472	33.247	1.00	67.99	A	O
ATOM	472	C	GLU	A	48	-38.813	12.516	30.922	1.00	53.49	A	C
ATOM	473	O	GLU	A	48	-39.501	13.528	30.867	1.00	49.44	A	O
ATOM	475	N	GLN	A	49	-37.550	12.526	31.353	1.00	53.31	A	N
ATOM	476	CA	GLN	A	49	-36.901	13.786	31.748	1.00	53.35	A	C
ATOM	478	CB	GLN	A	49	-36.767	13.858	33.280	1.00	55.68	A	C
ATOM	481	CG	GLN	A	49	-35.428	13.614	33.919	1.00	57.60	A	C
ATOM	484	CD	GLN	A	49	-35.511	13.710	35.437	1.00	56.94	A	C
ATOM	485	OE1	GLN	A	49	-35.835	14.759	35.983	1.00	52.76	A	O
ATOM	486	NE2	GLN	A	49	-35.201	12.612	36.119	1.00	60.22	A	N
ATOM	489	C	GLN	A	49	-35.584	14.104	31.007	1.00	49.48	A	C
ATOM	490	O	GLN	A	49	-34.787	14.937	31.457	1.00	44.39	A	O
ATOM	492	N	TRP	A	50	-35.413	13.500	29.831	1.00	49.60	A	N
ATOM	493	CA	TRP	A	50	-34.195	13.651	29.029	1.00	49.30	A	C
ATOM	495	CB	TRP	A	50	-33.371	12.351	29.065	1.00	49.11	A	C
ATOM	498	CG	TRP	A	50	-32.660	12.136	30.351	1.00	49.20	A	C
ATOM	499	CD1	TRP	A	50	-33.038	11.314	31.374	1.00	49.40	A	C
ATOM	501	NE1	TRP	A	50	-32.119	11.387	32.401	1.00	48.77	A	N
ATOM	503	CE2	TRP	A	50	-31.134	12.269	32.051	1.00	47.80	A	C
ATOM	504	CD2	TRP	A	50	-31.442	12.761	30.766	1.00	48.84	A	C
ATOM	505	CE3	TRP	A	50	-30.577	13.686	30.174	1.00	49.75	A	C
ATOM	507	CZ3	TRP	A	50	-29.451	14.089	30.873	1.00	49.05	A	C
ATOM	509	CH2	TRP	A	50	-29.171	13.582	32.144	1.00	48.58	A	C
ATOM	511	CZ2	TRP	A	50	-29.999	12.675	32.750	1.00	49.34	A	C
ATOM	513	C	TRP	A	50	-34.481	13.991	27.572	1.00	44.84	A	C
ATOM	514	O	TRP	A	50	-35.190	13.254	26.886	1.00	42.47	A	O
ATOM	516	N	VAL	A	51	-33.885	15.081	27.104	1.00	44.57	A	N
ATOM	517	CA	VAL	A	51	-33.982	15.521	25.711	1.00	45.11	A	C
ATOM	519	CB	VAL	A	51	-34.472	16.996	25.667	1.00	42.88	A	C
ATOM	521	CG1	VAL	A	51	-34.414	17.571	24.281	1.00	43.18	A	C
ATOM	525	CG2	VAL	A	51	-35.875	17.090	26.199	1.00	40.11	A	C
ATOM	529	C	VAL	A	51	-32.629	15.398	24.994	1.00	42.35	A	C
ATOM	530	O	VAL	A	51	-31.612	15.848	25.505	1.00	44.80	A	O

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ATOM	532	N	LEU	A	52	-32.616	14.788	23.816	1.00	40.60	A	N
ATOM	533	CA	LEU	A	52	-31.397	14.687	23.013	1.00	39.36	A	C
ATOM	535	CB	LEU	A	52	-31.346	13.344	22.296	1.00	39.00	A	C
ATOM	538	CG	LEU	A	52	-30.082	12.972	21.517	1.00	36.01	A	C
ATOM	540	CD1	LEU	A	52	-28.846	12.953	22.385	1.00	34.75	A	C
ATOM	544	CD2	LEU	A	52	-30.323	11.631	20.891	1.00	32.80	A	C
ATOM	548	C	LEU	A	52	-31.312	15.836	22.000	1.00	39.33	A	C
ATOM	549	O	LEU	A	52	-32.291	16.176	21.350	1.00	38.01	A	O
ATOM	551	N	SER	A	53	-30.124	16.436	21.906	1.00	39.08	A	N
ATOM	552	CA	SER	A	53	-29.854	17.548	21.014	1.00	36.57	A	C
ATOM	554	CB	SER	A	53	-30.136	18.880	21.724	1.00	42.58	A	C
ATOM	557	OG	SER	A	53	-30.121	19.979	20.818	1.00	42.01	A	O
ATOM	559	C	SER	A	53	-28.411	17.468	20.550	1.00	32.71	A	C
ATOM	560	O	SER	A	53	-27.778	16.409	20.629	1.00	29.49	A	O
ATOM	562	N	ALA	A	54	-27.890	18.566	20.020	1.00	36.03	A	N
ATOM	563	CA	ALA	A	54	-26.501	18.608	19.525	1.00	36.03	A	C
ATOM	565	CB	ALA	A	54	-26.465	19.224	18.150	1.00	23.83	A	C
ATOM	569	C	ALA	A	54	-25.579	19.376	20.501	1.00	36.47	A	C
ATOM	570	O	ALA	A	54	-25.979	20.355	21.098	1.00	36.17	A	O
ATOM	572	N	ALA	A	55	-24.349	18.914	20.666	1.00	40.15	A	N
ATOM	573	CA	ALA	A	55	-23.430	19.495	21.658	1.00	42.40	A	C
ATOM	575	CB	ALA	A	55	-22.210	18.587	21.855	1.00	38.47	A	C
ATOM	579	C	ALA	A	55	-23.008	20.941	21.340	1.00	44.10	A	C
ATOM	580	O	ALA	A	55	-23.022	21.783	22.228	1.00	47.54	A	O
ATOM	582	N	HIS	A	56	-22.686	21.235	20.082	1.00	47.14	A	N
ATOM	583	CA	HIS	A	56	-22.329	22.599	19.680	1.00	52.44	A	C
ATOM	585	CB	HIS	A	56	-21.739	22.620	18.265	1.00	56.26	A	C
ATOM	588	CG	HIS	A	56	-22.682	22.152	17.195	1.00	64.58	A	C
ATOM	589	ND1	HIS	A	56	-23.882	22.773	16.911	1.00	64.70	A	N
ATOM	591	CE1	HIS	A	56	-24.481	22.145	15.915	1.00	62.33	A	C
ATOM	593	NE2	HIS	A	56	-23.714	21.141	15.536	1.00	65.65	A	N
ATOM	595	CD2	HIS	A	56	-22.573	21.137	16.306	1.00	68.69	A	C
ATOM	597	C	HIS	A	56	-23.463	23.639	19.773	1.00	51.31	A	C
ATOM	598	O	HIS	A	56	-23.229	24.818	19.575	1.00	46.76	A	O
ATOM	600	N	CYS	A	57	-24.678	23.195	20.061	1.00	52.43	A	N
ATOM	601	CA	CYS	A	57	-25.786	24.099	20.347	1.00	57.44	A	C
ATOM	603	CB	CYS	A	57	-27.092	23.303	20.510	1.00	53.60	A	C
ATOM	606	SG	CYS	A	57	-27.729	22.698	18.903	1.00	51.73	A	S
ATOM	608	C	CYS	A	57	-25.517	24.960	21.574	1.00	59.55	A	C
ATOM	609	O	CYS	A	57	-25.983	26.091	21.647	1.00	59.26	A	O
ATOM	611	N	LEU	A	58	-24.730	24.426	22.506	1.00	63.27	A	N
ATOM	612	CA	LEU	A	58	-24.419	25.097	23.767	1.00	66.56	A	C
ATOM	614	CB	LEU	A	58	-24.371	24.046	24.882	1.00	63.41	A	C
ATOM	617	CG	LEU	A	58	-25.622	23.868	25.744	1.00	61.68	A	C
ATOM	619	CD1	LEU	A	58	-26.933	23.957	24.958	1.00	59.97	A	C
ATOM	623	CD2	LEU	A	58	-25.499	22.554	26.476	1.00	63.41	A	C
ATOM	627	C	LEU	A	58	-23.104	25.894	23.779	1.00	70.10	A	C
ATOM	628	O	LEU	A	58	-22.776	26.512	24.784	1.00	69.58	A	O
ATOM	630	N	GLU	A	59	-22.366	25.901	22.672	1.00	75.37	A	N
ATOM	631	CA	GLU	A	59	-20.968	26.350	22.701	1.00	79.91	A	C
ATOM	633	CB	GLU	A	59	-20.252	25.991	21.398	1.00	80.87	A	C
ATOM	636	CG	GLU	A	59	-19.586	24.613	21.476	1.00	81.90	A	C
ATOM	639	CD	GLU	A	59	-19.022	24.146	20.147	1.00	84.53	A	C
ATOM	640	OE1	GLU	A	59	-18.605	25.003	19.333	1.00	88.67	A	O
ATOM	641	OE2	GLU	A	59	-18.980	22.914	19.922	1.00	86.47	A	O
ATOM	642	C	GLU	A	59	-20.728	27.820	23.089	1.00	84.65	A	C
ATOM	643	O	GLU	A	59	-19.875	28.099	23.937	1.00	86.61	A	O
ATOM	645	N	ASP	A	60	-21.464	28.749	22.484	1.00	87.58	A	N
ATOM	646	CA	ASP	A	60	-21.329	30.179	22.811	1.00	87.99	A	C
ATOM	648	CB	ASP	A	60	-21.093	31.005	21.528	1.00	91.03	A	C
ATOM	651	CG	ASP	A	60	-19.714	30.764	20.896	1.00	94.18	A	C
ATOM	652	OD1	ASP	A	60	-19.504	31.217	19.744	1.00	94.34	A	O
ATOM	653	OD2	ASP	A	60	-18.841	30.137	21.541	1.00	94.84	A	O
ATOM	654	C	ASP	A	60	-22.564	30.702	23.548	1.00	87.56	A	C
ATOM	655	O	ASP	A	60	-23.137	31.729	23.186	1.00	86.58	A	O
ATOM	657	N	ALA	A	61	-22.968	29.993	24.591	1.00	87.90	A	N
ATOM	658	CA	ALA	A	61	-24.199	30.307	25.264	1.00	89.04	A	C
ATOM	660	CB	ALA	A	61	-25.108	29.071	25.196	1.00	85.74	A	C

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ATOM	664	C	ALA	A	61	-24.124	30.767	26.718	1.00	91.59	A C
ATOM	665	O	ALA	A	61	-24.587	31.866	27.045	1.00	90.91	A O
ATOM	667	N	ALA	A	62	-23.444	30.002	27.568	1.00	93.98	A N
ATOM	668	CA	ALA	A	62	-22.219	30.314	28.269	1.00	94.24	A C
ATOM	670	CB	ALA	A	62	-21.244	31.136	27.417	1.00	97.50	A C
ATOM	674	C	ALA	A	62	-22.748	31.089	29.499	1.00	93.42	A C
ATOM	675	O	ALA	A	62	-22.978	30.506	30.563	1.00	92.45	A O
ATOM	677	N	ASP	A	63	-23.003	32.382	29.326	1.00	93.69	A N
ATOM	678	CA	ASP	A	63	-23.594	33.214	30.369	1.00	93.16	A C
ATOM	680	CB	ASP	A	63	-22.784	34.512	30.509	1.00	94.65	A C
ATOM	683	CG	ASP	A	63	-23.049	35.240	31.820	1.00	95.79	A C
ATOM	684	OD1	ASP	A	63	-23.532	34.610	32.792	1.00	96.26	A O
ATOM	685	OD2	ASP	A	63	-22.756	36.453	31.879	1.00	97.27	A O
ATOM	686	C	ASP	A	63	-25.046	33.505	29.989	1.00	93.25	A C
ATOM	687	O	ASP	A	63	-25.410	34.651	29.709	1.00	94.38	A O
ATOM	689	N	GLY	A	64	-25.867	32.453	29.971	1.00	89.98	A N
ATOM	690	CA	GLY	A	64	-27.250	32.554	29.506	1.00	85.69	A C
ATOM	693	C	GLY	A	64	-28.150	31.467	30.053	1.00	81.18	A C
ATOM	694	O	GLY	A	64	-27.683	30.416	30.480	1.00	81.14	A O
ATOM	696	N	LYS	A	65	-29.449	31.735	30.025	1.00	77.40	A N
ATOM	697	CA	LYS	A	65	-30.466	30.848	30.578	1.00	77.00	A C
ATOM	699	CB	LYS	A	65	-31.673	31.693	31.011	1.00	74.84	A C
ATOM	702	CG	LYS	A	65	-32.872	30.935	31.541	1.00	73.81	A C
ATOM	705	CD	LYS	A	65	-32.679	30.481	32.971	1.00	73.55	A C
ATOM	708	CE	LYS	A	65	-34.000	30.031	33.567	1.00	73.70	A C
ATOM	711	NZ	LYS	A	65	-33.809	29.240	34.796	1.00	73.80	A N
ATOM	715	C	LYS	A	65	-30.884	29.825	29.523	1.00	75.89	A C
ATOM	716	O	LYS	A	65	-31.497	30.186	28.519	1.00	76.73	A O
ATOM	718	N	VAL	A	66	-30.557	28.555	29.747	1.00	73.08	A N
ATOM	719	CA	VAL	A	66	-30.919	27.494	28.809	1.00	70.42	A C
ATOM	721	CB	VAL	A	66	-29.768	26.497	28.601	1.00	69.04	A C
ATOM	723	CG1	VAL	A	66	-30.226	25.340	27.717	1.00	67.62	A C
ATOM	727	CG2	VAL	A	66	-28.557	27.202	27.996	1.00	68.13	A C
ATOM	731	C	VAL	A	66	-32.163	26.733	29.277	1.00	68.79	A C
ATOM	732	O	VAL	A	66	-32.217	26.264	30.416	1.00	69.32	A O
ATOM	734	N	GLN	A	67	-33.152	26.615	28.387	1.00	64.55	A N
ATOM	735	CA	GLN	A	67	-34.418	25.935	28.688	1.00	60.73	A C
ATOM	737	CB	GLN	A	67	-35.502	26.975	29.001	1.00	59.49	A C
ATOM	740	CG	GLN	A	67	-35.207	27.831	30.240	1.00	57.87	A C
ATOM	743	CD	GLN	A	67	-36.147	28.996	30.392	1.00	55.49	A C
ATOM	744	OE1	GLN	A	67	-36.255	29.831	29.505	1.00	55.41	A O
ATOM	745	NE2	GLN	A	67	-36.820	29.073	31.528	1.00	51.83	A N
ATOM	748	C	GLN	A	67	-34.861	25.034	27.524	1.00	57.44	A C
ATOM	749	O	GLN	A	67	-34.425	25.221	26.392	1.00	55.07	A O
ATOM	751	N	VAL	A	68	-35.713	24.049	27.818	1.00	54.50	A N
ATOM	752	CA	VAL	A	68	-36.329	23.209	26.788	1.00	50.89	A C
ATOM	754	CB	VAL	A	68	-35.982	21.728	26.947	1.00	46.32	A C
ATOM	756	CG1	VAL	A	68	-36.662	20.904	25.860	1.00	39.26	A C
ATOM	760	CG2	VAL	A	68	-34.469	21.528	26.926	1.00	41.90	A C
ATOM	764	C	VAL	A	68	-37.850	23.348	26.820	1.00	47.97	A C
ATOM	765	O	VAL	A	68	-38.471	23.187	27.863	1.00	46.91	A O
ATOM	767	N	LEU	A	69	-38.428	23.629	25.657	1.00	44.63	A N
ATOM	768	CA	LEU	A	69	-39.850	23.848	25.495	1.00	43.86	A C
ATOM	770	CB	LEU	A	69	-40.068	25.101	24.646	1.00	38.62	A C
ATOM	773	CG	LEU	A	69	-41.466	25.362	24.093	1.00	40.29	A C
ATOM	775	CD1	LEU	A	69	-42.458	25.781	25.204	1.00	34.14	A C
ATOM	779	CD2	LEU	A	69	-41.354	26.401	23.024	1.00	37.23	A C
ATOM	783	C	LEU	A	69	-40.504	22.640	24.825	1.00	44.47	A C
ATOM	784	O	LEU	A	69	-40.247	22.354	23.646	1.00	40.25	A O
ATOM	786	N	LEU	A	70	-41.354	21.937	25.583	1.00	44.62	A N
ATOM	787	CA	LEU	A	70	-42.091	20.776	25.067	1.00	44.08	A C
ATOM	789	CB	LEU	A	70	-41.995	19.618	26.062	1.00	38.78	A C
ATOM	792	CG	LEU	A	70	-40.567	19.132	26.319	1.00	34.71	A C
ATOM	794	CD1	LEU	A	70	-40.536	17.996	27.315	1.00	29.91	A C
ATOM	798	CD2	LEU	A	70	-39.882	18.717	25.034	1.00	31.31	A C
ATOM	802	C	LEU	A	70	-43.555	21.082	24.721	1.00	44.42	A C
ATOM	803	O	LEU	A	70	-44.108	22.096	25.137	1.00	43.92	A O
ATOM	805	N	GLY	A	71	-44.165	20.198	23.937	1.00	45.02	A N

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ATOM	806	CA	GLY	A	71	-45.559	20.324	23.528	1.00	43.62	A	C
ATOM	809	C	GLY	A	71	-45.862	21.520	22.648	1.00	47.34	A	C
ATOM	810	O	GLY	A	71	-47.022	21.903	22.489	1.00	52.44	A	O
ATOM	812	N	ALA	A	72	-44.831	22.108	22.049	1.00	49.11	A	N
ATOM	813	CA	ALA	A	72	-44.988	23.336	21.272	1.00	45.52	A	C
ATOM	815	CB	ALA	A	72	-43.758	24.230	21.420	1.00	39.29	A	C
ATOM	819	C	ALA	A	72	-45.272	23.073	19.805	1.00	43.41	A	C
ATOM	820	O	ALA	A	72	-44.832	22.078	19.220	1.00	43.05	A	O
ATOM	822	N	HIS	A	73	-46.059	23.966	19.233	1.00	42.28	A	N
ATOM	823	CA	HIS	A	73	-46.167	24.066	17.804	1.00	44.42	A	C
ATOM	825	CB	HIS	A	73	-47.577	23.747	17.308	1.00	39.78	A	C
ATOM	828	CG	HIS	A	73	-47.652	23.711	15.827	1.00	37.63	A	C
ATOM	829	ND1	HIS	A	73	-46.907	22.820	15.083	1.00	30.51	A	N
ATOM	831	CE1	HIS	A	73	-47.115	23.050	13.800	1.00	34.73	A	C
ATOM	833	NE2	HIS	A	73	-47.951	24.072	13.687	1.00	36.61	A	N
ATOM	835	CD2	HIS	A	73	-48.290	24.513	14.943	1.00	33.73	A	C
ATOM	837	C	HIS	A	73	-45.713	25.463	17.361	1.00	44.62	A	C
ATOM	838	O	HIS	A	73	-44.775	25.598	16.586	1.00	41.55	A	O
ATOM	840	N	SER	A	74	-46.375	26.484	17.885	1.00	44.17	A	N
ATOM	841	CA	SER	A	74	-45.973	27.865	17.705	1.00	42.74	A	C
ATOM	843	CB	SER	A	74	-47.220	28.768	17.730	1.00	35.44	A	C
ATOM	846	OG	SER	A	74	-46.881	30.124	17.890	1.00	28.22	A	O
ATOM	848	C	SER	A	74	-45.022	28.236	18.834	1.00	43.01	A	C
ATOM	849	O	SER	A	74	-45.258	27.867	19.989	1.00	43.03	A	O
ATOM	851	N	LEU	A	75	-43.967	28.978	18.507	1.00	44.74	A	N
ATOM	852	CA	LEU	A	75	-43.016	29.469	19.507	1.00	44.88	A	C
ATOM	854	CB	LEU	A	75	-41.698	29.850	18.849	1.00	38.49	A	C
ATOM	857	CG	LEU	A	75	-40.810	28.738	18.253	1.00	37.58	A	C
ATOM	859	CD1	LEU	A	75	-39.622	29.364	17.525	1.00	28.33	A	C
ATOM	863	CD2	LEU	A	75	-40.317	27.775	19.307	1.00	35.54	A	C
ATOM	867	C	LEU	A	75	-43.541	30.657	20.333	1.00	46.25	A	C
ATOM	868	O	LEU	A	75	-43.256	30.756	21.518	1.00	47.28	A	O
ATOM	870	N	SER	A	76	-44.303	31.544	19.707	1.00	46.88	A	N
ATOM	871	CA	SER	A	76	-44.769	32.785	20.351	1.00	47.46	A	C
ATOM	873	CB	SER	A	76	-44.858	33.901	19.299	1.00	42.75	A	C
ATOM	876	OG	SER	A	76	-45.734	33.533	18.244	1.00	37.58	A	O
ATOM	878	C	SER	A	76	-46.133	32.642	21.033	1.00	48.96	A	C
ATOM	879	O	SER	A	76	-46.403	33.232	22.066	1.00	45.90	A	O
ATOM	881	N	GLN	A	77	-46.985	31.838	20.435	1.00	52.47	A	N
ATOM	882	CA	GLN	A	77	-48.370	31.829	20.775	1.00	52.99	A	C
ATOM	884	CB	GLN	A	77	-49.161	31.545	19.496	1.00	50.44	A	C
ATOM	887	CG	GLN	A	77	-50.307	32.494	19.247	1.00	52.43	A	C
ATOM	890	CD	GLN	A	77	-49.938	33.977	19.110	1.00	43.39	A	C
ATOM	891	OE1	GLN	A	77	-50.817	34.803	19.197	1.00	46.93	A	O
ATOM	892	NE2	GLN	A	77	-48.685	34.303	18.866	1.00	38.22	A	N
ATOM	895	C	GLN	A	77	-48.641	30.820	21.895	1.00	53.68	A	C
ATOM	896	O	GLN	A	77	-48.027	29.762	21.954	1.00	50.24	A	O
ATOM	898	N	PRO	A	78	-49.518	31.178	22.832	1.00	56.35	A	N
ATOM	899	CA	PRO	A	78	-49.900	30.237	23.878	1.00	56.68	A	C
ATOM	901	CB	PRO	A	78	-50.726	31.081	24.845	1.00	58.93	A	C
ATOM	904	CG	PRO	A	78	-51.064	32.332	24.124	1.00	58.68	A	C
ATOM	907	CD	PRO	A	78	-50.127	32.506	23.002	1.00	59.14	A	C
ATOM	910	C	PRO	A	78	-50.705	29.030	23.377	1.00	55.02	A	C
ATOM	911	O	PRO	A	78	-51.595	29.157	22.534	1.00	49.94	A	O
ATOM	912	N	GLU	A	79	-50.353	27.868	23.913	1.00	54.95	A	N
ATOM	913	CA	GLU	A	79	-50.984	26.604	23.590	1.00	54.27	A	C
ATOM	915	CB	GLU	A	79	-50.142	25.814	22.568	1.00	51.71	A	C
ATOM	918	CG	GLU	A	79	-49.681	26.625	21.332	1.00	50.40	A	C
ATOM	921	CD	GLU	A	79	-48.786	25.855	20.352	1.00	45.25	A	C
ATOM	922	OE1	GLU	A	79	-47.922	25.065	20.766	1.00	38.25	A	O
ATOM	923	OE2	GLU	A	79	-48.936	26.056	19.139	1.00	40.53	A	O
ATOM	924	C	GLU	A	79	-51.096	25.824	24.909	1.00	56.29	A	C
ATOM	925	O	GLU	A	79	-50.222	25.951	25.774	1.00	55.03	A	O
ATOM	927	N	PRO	A	80	-52.183	25.043	25.087	1.00	56.19	A	N
ATOM	928	CA	PRO	A	80	-52.372	24.243	26.301	1.00	55.24	A	C
ATOM	930	CB	PRO	A	80	-53.652	23.449	26.006	1.00	54.28	A	C
ATOM	933	CG	PRO	A	80	-54.334	24.168	24.959	1.00	54.93	A	C
ATOM	936	CD	PRO	A	80	-53.322	24.919	24.169	1.00	54.25	A	C

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ATOM	939	C	PRO	A	80	-51.229	23.278	26.633	1.00	54.96	A	C
ATOM	940	O	PRO	A	80	-50.820	23.190	27.786	1.00	53.15	A	O
ATOM	941	N	SER	A	81	-50.737	22.563	25.623	1.00	55.26	A	N
ATOM	942	CA	SER	A	81	-49.655	21.592	25.780	1.00	51.82	A	C
ATOM	944	CB	SER	A	81	-49.595	20.664	24.553	1.00	50.54	A	C
ATOM	947	OG	SER	A	81	-49.942	21.340	23.352	1.00	49.55	A	O
ATOM	949	C	SER	A	81	-48.285	22.233	26.029	1.00	50.14	A	C
ATOM	950	O	SER	A	81	-47.405	21.582	26.612	1.00	47.88	A	O
ATOM	952	N	LYS	A	82	-48.109	23.485	25.585	1.00	48.50	A	N
ATOM	953	CA	LYS	A	82	-46.808	24.188	25.684	1.00	48.16	A	C
ATOM	955	CB	LYS	A	82	-46.830	25.562	25.012	1.00	41.35	A	C
ATOM	958	CG	LYS	A	82	-46.465	25.548	23.568	1.00	42.18	A	C
ATOM	961	CD	LYS	A	82	-46.548	26.940	22.955	1.00	46.02	A	C
ATOM	964	CE	LYS	A	82	-45.411	27.833	23.426	1.00	41.99	A	C
ATOM	967	NZ	LYS	A	82	-45.307	29.063	22.614	1.00	39.02	A	N
ATOM	971	C	LYS	A	82	-46.350	24.394	27.110	1.00	50.36	A	C
ATOM	972	O	LYS	A	82	-47.001	25.103	27.882	1.00	56.38	A	O
ATOM	974	N	ARG	A	83	-45.215	23.800	27.454	1.00	51.83	A	N
ATOM	975	CA	ARG	A	83	-44.576	24.071	28.729	1.00	51.29	A	C
ATOM	977	CB	ARG	A	83	-44.894	22.946	29.713	1.00	51.99	A	C
ATOM	980	CG	ARG	A	83	-44.110	23.062	30.975	1.00	52.47	A	C
ATOM	983	CD	ARG	A	83	-44.618	22.197	32.099	1.00	57.04	A	C
ATOM	986	NE	ARG	A	83	-43.841	22.508	33.301	1.00	59.95	A	N
ATOM	988	CZ	ARG	A	83	-43.696	21.721	34.361	1.00	60.16	A	C
ATOM	989	NH1	ARG	A	83	-44.275	20.527	34.417	1.00	59.71	A	N
ATOM	992	NH2	ARG	A	83	-42.944	22.143	35.371	1.00	60.89	A	N
ATOM	995	C	ARG	A	83	-43.050	24.262	28.589	1.00	50.71	A	C
ATOM	996	O	ARG	A	83	-42.356	23.425	28.013	1.00	46.65	A	O
ATOM	998	N	LEU	A	84	-42.547	25.355	29.159	1.00	49.98	A	N
ATOM	999	CA	LEU	A	84	-41.115	25.680	29.170	1.00	51.00	A	C
ATOM	1001	CB	LEU	A	84	-40.915	27.201	29.114	1.00	45.27	A	C
ATOM	1004	CG	LEU	A	84	-39.498	27.686	28.816	1.00	46.86	A	C
ATOM	1006	CD1	LEU	A	84	-38.976	27.174	27.436	1.00	39.33	A	C
ATOM	1010	CD2	LEU	A	84	-39.410	29.225	28.915	1.00	46.81	A	C
ATOM	1014	C	LEU	A	84	-40.435	25.127	30.430	1.00	52.69	A	C
ATOM	1015	O	LEU	A	84	-40.804	25.503	31.545	1.00	53.06	A	O
ATOM	1017	N	TYR	A	85	-39.450	24.240	30.244	1.00	52.45	A	N
ATOM	1018	CA	TYR	A	85	-38.778	23.546	31.347	1.00	53.03	A	C
ATOM	1020	CB	TYR	A	85	-38.645	22.061	31.060	1.00	50.16	A	C
ATOM	1023	CG	TYR	A	85	-39.917	21.261	31.096	1.00	49.10	A	C
ATOM	1024	CD1	TYR	A	85	-40.335	20.643	32.272	1.00	50.34	A	C
ATOM	1026	CE1	TYR	A	85	-41.489	19.874	32.309	1.00	51.02	A	C
ATOM	1028	CZ	TYR	A	85	-42.237	19.715	31.156	1.00	51.94	A	C
ATOM	1029	OH	TYR	A	85	-43.390	18.961	31.185	1.00	50.54	A	O
ATOM	1031	CE2	TYR	A	85	-41.834	20.321	29.968	1.00	49.59	A	C
ATOM	1033	CD2	TYR	A	85	-40.677	21.080	29.946	1.00	47.22	A	C
ATOM	1035	C	TYR	A	85	-37.373	24.063	31.531	1.00	55.04	A	C
ATOM	1036	O	TYR	A	85	-36.676	24.288	30.557	1.00	57.40	A	O
ATOM	1038	N	ASP	A	86	-36.954	24.230	32.782	1.00	57.37	A	N
ATOM	1039	CA	ASP	A	86	-35.567	24.578	33.087	1.00	58.20	A	C
ATOM	1041	CB	ASP	A	86	-35.454	25.240	34.472	1.00	59.98	A	C
ATOM	1044	CG	ASP	A	86	-35.954	26.685	34.486	1.00	60.45	A	C
ATOM	1045	OD1	ASP	A	86	-36.590	27.123	33.511	1.00	64.49	A	O
ATOM	1046	OD2	ASP	A	86	-35.702	27.397	35.471	1.00	56.83	A	O
ATOM	1047	C	ASP	A	86	-34.702	23.312	33.012	1.00	56.50	A	C
ATOM	1048	O	ASP	A	86	-35.213	22.186	33.055	1.00	52.17	A	O
ATOM	1050	N	VAL	A	87	-33.393	23.496	32.896	1.00	54.74	A	N
ATOM	1051	CA	VAL	A	87	-32.490	22.358	32.733	1.00	58.06	A	C
ATOM	1053	CB	VAL	A	87	-31.546	22.519	31.529	1.00	53.55	A	C
ATOM	1055	CG1	VAL	A	87	-30.516	21.393	31.521	1.00	47.35	A	C
ATOM	1059	CG2	VAL	A	87	-32.354	22.540	30.231	1.00	52.14	A	C
ATOM	1063	C	VAL	A	87	-31.662	22.104	33.987	1.00	59.51	A	C
ATOM	1064	O	VAL	A	87	-30.884	22.961	34.425	1.00	59.01	A	O
ATOM	1066	N	LEU	A	88	-31.838	20.906	34.541	1.00	61.78	A	N
ATOM	1067	CA	LEU	A	88	-31.117	20.460	35.733	1.00	61.60	A	C
ATOM	1069	CB	LEU	A	88	-31.877	19.298	36.382	1.00	62.05	A	C
ATOM	1072	CG	LEU	A	88	-31.498	18.852	37.794	1.00	65.32	A	C
ATOM	1074	CD1	LEU	A	88	-30.978	20.006	38.662	1.00	67.56	A	C

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ATOM	1078	CD2	LEU	A	88	-32.701	18.183	38.441	1.00	61.41	A	C
ATOM	1082	C	LEU	A	88	-29.680	20.041	35.434	1.00	60.99	A	C
ATOM	1083	O	LEU	A	88	-28.799	20.251	36.257	1.00	61.07	A	O
ATOM	1085	N	ARG	A	89	-29.442	19.476	34.250	1.00	62.49	A	N
ATOM	1086	CA	ARG	A	89	-28.119	18.958	33.886	1.00	61.65	A	C
ATOM	1088	CB	ARG	A	89	-27.936	17.562	34.496	1.00	65.13	A	C
ATOM	1091	CG	ARG	A	89	-26.589	17.331	35.170	1.00	65.72	A	C
ATOM	1094	CD	ARG	A	89	-26.562	15.956	35.847	1.00	66.04	A	C
ATOM	1097	NE	ARG	A	89	-25.785	14.958	35.096	1.00	64.91	A	N
ATOM	1099	CZ	ARG	A	89	-26.120	13.673	34.957	1.00	63.00	A	C
ATOM	1100	NH1	ARG	A	89	-27.244	13.187	35.485	1.00	61.74	A	N
ATOM	1103	NH2	ARG	A	89	-25.333	12.865	34.259	1.00	63.34	A	N
ATOM	1106	C	ARG	A	89	-27.912	18.900	32.363	1.00	58.80	A	C
ATOM	1107	O	ARG	A	89	-28.788	18.448	31.625	1.00	56.35	A	O
ATOM	1109	N	ALA	A	90	-26.747	19.366	31.912	1.00	57.44	A	N
ATOM	1110	CA	ALA	A	90	-26.350	19.318	30.504	1.00	55.33	A	C
ATOM	1112	CB	ALA	A	90	-25.982	20.711	30.018	1.00	52.30	A	C
ATOM	1116	C	ALA	A	90	-25.163	18.369	30.338	1.00	52.63	A	C
ATOM	1117	O	ALA	A	90	-24.048	18.664	30.786	1.00	49.28	A	O
ATOM	1119	N	VAL	A	91	-25.413	17.225	29.700	1.00	52.92	A	N
ATOM	1120	CA	VAL	A	91	-24.392	16.191	29.503	1.00	51.45	A	C
ATOM	1122	CB	VAL	A	91	-24.874	14.848	30.073	1.00	48.97	A	C
ATOM	1124	CG1	VAL	A	91	-23.701	13.834	30.151	1.00	46.78	A	C
ATOM	1128	CG2	VAL	A	91	-25.511	15.060	31.421	1.00	44.51	A	C
ATOM	1132	C	VAL	A	91	-24.028	16.020	28.024	1.00	48.39	A	C
ATOM	1133	O	VAL	A	91	-24.635	15.211	27.323	1.00	48.05	A	O
ATOM	1135	N	PRO	A	92	-23.032	16.777	27.552	1.00	46.74	A	N
ATOM	1136	CA	PRO	A	92	-22.539	16.583	26.185	1.00	48.60	A	C
ATOM	1138	CB	PRO	A	92	-21.602	17.778	25.963	1.00	45.28	A	C
ATOM	1141	CG	PRO	A	92	-21.208	18.242	27.323	1.00	47.04	A	C
ATOM	1144	CD	PRO	A	92	-22.288	17.820	28.285	1.00	46.34	A	C
ATOM	1147	C	PRO	A	92	-21.772	15.265	26.081	1.00	50.44	A	C
ATOM	1148	O	PRO	A	92	-21.228	14.788	27.082	1.00	53.21	A	O
ATOM	1149	N	HIS	A	93	-21.720	14.672	24.894	1.00	48.09	A	N
ATOM	1150	CA	HIS	A	93	-20.878	13.511	24.721	1.00	47.01	A	C
ATOM	1152	CB	HIS	A	93	-20.876	13.014	23.285	1.00	40.04	A	C
ATOM	1155	CG	HIS	A	93	-20.197	11.696	23.140	1.00	36.35	A	C
ATOM	1156	ND1	HIS	A	93	-18.825	11.571	23.108	1.00	34.84	A	N
ATOM	1158	CE1	HIS	A	93	-18.505	10.295	23.014	1.00	35.27	A	C
ATOM	1160	NE2	HIS	A	93	-19.621	9.585	23.014	1.00	32.37	A	N
ATOM	1162	CD2	HIS	A	93	-20.693	10.441	23.085	1.00	32.60	A	C
ATOM	1164	C	HIS	A	93	-19.461	13.886	25.173	1.00	47.46	A	C
ATOM	1165	O	HIS	A	93	-18.985	14.980	24.852	1.00	45.31	A	O
ATOM	1167	N	PRO	A	94	-18.796	12.998	25.943	1.00	51.60	A	N
ATOM	1168	CA	PRO	A	94	-17.458	13.312	26.478	1.00	51.57	A	C
ATOM	1170	CB	PRO	A	94	-17.083	12.047	27.259	1.00	53.26	A	C
ATOM	1173	CG	PRO	A	94	-18.399	11.389	27.573	1.00	53.10	A	C
ATOM	1176	CD	PRO	A	94	-19.271	11.677	26.404	1.00	51.99	A	C
ATOM	1179	C	PRO	A	94	-16.380	13.657	25.446	1.00	50.93	A	C
ATOM	1180	O	PRO	A	94	-15.507	14.477	25.729	1.00	52.14	A	O
ATOM	1181	N	ASP	A	95	-16.455	13.069	24.263	1.00	48.49	A	N
ATOM	1182	CA	ASP	A	95	-15.435	13.302	23.247	1.00	50.21	A	C
ATOM	1184	CB	ASP	A	95	-15.045	11.972	22.567	1.00	46.31	A	C
ATOM	1187	CG	ASP	A	95	-14.766	10.842	23.575	1.00	42.25	A	C
ATOM	1188	OD1	ASP	A	95	-14.303	11.114	24.711	1.00	39.48	A	O
ATOM	1189	OD2	ASP	A	95	-15.032	9.670	23.234	1.00	41.62	A	O
ATOM	1190	C	ASP	A	95	-15.832	14.394	22.239	1.00	50.82	A	C
ATOM	1191	O	ASP	A	95	-15.048	14.682	21.327	1.00	50.65	A	O
ATOM	1193	N	SER	A	96	-17.012	15.004	22.417	1.00	49.86	A	N
ATOM	1194	CA	SER	A	96	-17.427	16.150	21.603	1.00	53.39	A	C
ATOM	1196	CB	SER	A	96	-18.913	16.462	21.797	1.00	48.70	A	C
ATOM	1199	OG	SER	A	96	-19.199	16.994	23.071	1.00	43.71	A	O
ATOM	1201	C	SER	A	96	-16.610	17.384	21.955	1.00	55.21	A	C
ATOM	1202	O	SER	A	96	-16.148	17.517	23.079	1.00	49.99	A	O
ATOM	1204	N	GLN	A	97	-16.457	18.293	20.996	1.00	60.71	A	N
ATOM	1205	CA	GLN	A	97	-15.715	19.528	21.236	1.00	63.82	A	C
ATOM	1207	CB	GLN	A	97	-14.278	19.234	21.696	1.00	63.50	A	C
ATOM	1210	CG	GLN	A	97	-13.409	18.550	20.692	1.00	64.48	A	C

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ATOM	1213	CD	GLN	A	97	-12.206	17.961	21.363	1.00	64.66	A	C
ATOM	1214	OE1	GLN	A	97	-11.264	18.672	21.702	1.00	68.20	A	O
ATOM	1215	NE2	GLN	A	97	-12.242	16.661	21.593	1.00	62.84	A	N
ATOM	1218	C	GLN	A	97	-15.785	20.486	20.029	1.00	64.82	A	C
ATOM	1219	O	GLN	A	97	-16.191	20.076	18.940	1.00	66.33	A	O
ATOM	1221	N	PRO	A	98	-15.450	21.775	20.251	1.00	65.47	A	N
ATOM	1222	CA	PRO	A	98	-15.643	22.885	19.314	1.00	66.88	A	C
ATOM	1224	CB	PRO	A	98	-14.855	24.014	19.974	1.00	66.08	A	C
ATOM	1227	CG	PRO	A	98	-15.040	23.752	21.411	1.00	64.43	A	C
ATOM	1230	CD	PRO	A	98	-14.910	22.277	21.533	1.00	63.33	A	C
ATOM	1233	C	PRO	A	98	-15.210	22.740	17.858	1.00	68.94	A	C
ATOM	1234	O	PRO	A	98	-15.904	23.279	16.979	1.00	69.94	A	O
ATOM	1235	N	ASP	A	99	-14.095	22.056	17.599	1.00	67.24	A	N
ATOM	1236	CA	ASP	A	99	-13.512	22.050	16.256	1.00	67.21	A	C
ATOM	1238	CB	ASP	A	99	-12.071	22.553	16.335	1.00	69.13	A	C
ATOM	1241	CG	ASP	A	99	-11.989	23.989	16.853	1.00	71.08	A	C
ATOM	1242	OD1	ASP	A	99	-12.087	24.915	16.024	1.00	71.97	A	O
ATOM	1243	OD2	ASP	A	99	-11.870	24.200	18.082	1.00	71.41	A	O
ATOM	1244	C	ASP	A	99	-13.620	20.686	15.570	1.00	65.98	A	C
ATOM	1245	O	ASP	A	99	-12.728	20.260	14.832	1.00	64.85	A	O
ATOM	1247	N	THR	A	100	-14.744	20.020	15.810	1.00	63.79	A	N
ATOM	1248	CA	THR	A	100	-15.025	18.719	15.231	1.00	61.72	A	C
ATOM	1250	CB	THR	A	100	-14.310	17.602	16.052	1.00	61.83	A	C
ATOM	1252	OG1	THR	A	100	-14.781	16.312	15.644	1.00	63.00	A	O
ATOM	1254	CG2	THR	A	100	-14.543	17.764	17.539	1.00	58.82	A	C
ATOM	1258	C	THR	A	100	-16.519	18.460	15.202	1.00	58.86	A	C
ATOM	1259	O	THR	A	100	-17.205	18.735	16.182	1.00	60.59	A	O
ATOM	1261	N	ILE	A	101	-17.022	17.948	14.077	1.00	57.50	A	N
ATOM	1262	CA	ILE	A	101	-18.430	17.538	13.984	1.00	57.02	A	C
ATOM	1264	CB	ILE	A	101	-18.925	17.525	12.514	1.00	60.93	A	C
ATOM	1266	CG1	ILE	A	101	-18.406	16.316	11.732	1.00	58.89	A	C
ATOM	1269	CD1	ILE	A	101	-18.912	16.299	10.279	1.00	58.06	A	C
ATOM	1273	CG2	ILE	A	101	-18.502	18.820	11.819	1.00	68.53	A	C
ATOM	1277	C	ILE	A	101	-18.666	16.177	14.655	1.00	54.01	A	C
ATOM	1278	O	ILE	A	101	-19.791	15.709	14.754	1.00	55.00	A	O
ATOM	1280	N	ASP	A	102	-17.591	15.553	15.121	1.00	53.57	A	N
ATOM	1281	CA	ASP	A	102	-17.660	14.237	15.754	1.00	50.75	A	C
ATOM	1283	CB	ASP	A	102	-16.272	13.641	16.006	1.00	48.38	A	C
ATOM	1286	CG	ASP	A	102	-15.548	13.258	14.754	1.00	48.28	A	C
ATOM	1287	OD1	ASP	A	102	-16.192	12.891	13.743	1.00	45.67	A	O
ATOM	1288	OD2	ASP	A	102	-14.304	13.304	14.810	1.00	49.61	A	O
ATOM	1289	C	ASP	A	102	-18.305	14.269	17.117	1.00	48.07	A	C
ATOM	1290	O	ASP	A	102	-18.057	15.177	17.912	1.00	45.92	A	O
ATOM	1292	N	HIS	A	103	-19.090	13.229	17.393	1.00	45.69	A	N
ATOM	1293	CA	HIS	A	103	-19.711	13.005	18.700	1.00	44.33	A	C
ATOM	1295	CB	HIS	A	103	-18.666	12.749	19.794	1.00	38.79	A	C
ATOM	1298	CG	HIS	A	103	-17.506	11.915	19.341	1.00	41.56	A	C
ATOM	1299	ND1	HIS	A	103	-17.663	10.686	18.742	1.00	37.73	A	N
ATOM	1301	CE1	HIS	A	103	-16.477	10.193	18.440	1.00	37.00	A	C
ATOM	1303	NE2	HIS	A	103	-15.555	11.057	18.824	1.00	38.87	A	N
ATOM	1305	CD2	HIS	A	103	-16.172	12.146	19.386	1.00	38.48	A	C
ATOM	1307	C	HIS	A	103	-20.614	14.142	19.125	1.00	43.13	A	C
ATOM	1308	O	HIS	A	103	-20.715	14.447	20.315	1.00	40.05	A	O
ATOM	1310	N	ASP	A	104	-21.319	14.725	18.161	1.00	44.47	A	N
ATOM	1311	CA	ASP	A	104	-22.037	15.982	18.375	1.00	42.56	A	C
ATOM	1313	CB	ASP	A	104	-22.089	16.747	17.057	1.00	38.91	A	C
ATOM	1316	CG	ASP	A	104	-22.582	18.136	17.215	1.00	36.89	A	C
ATOM	1317	OD1	ASP	A	104	-22.577	18.681	18.339	1.00	41.50	A	O
ATOM	1318	OD2	ASP	A	104	-22.977	18.698	16.196	1.00	34.86	A	O
ATOM	1319	C	ASP	A	104	-23.430	15.738	18.942	1.00	42.65	A	C
ATOM	1320	O	ASP	A	104	-24.429	16.114	18.344	1.00	41.82	A	O
ATOM	1322	N	LEU	A	105	-23.459	15.104	20.110	1.00	42.25	A	N
ATOM	1323	CA	LEU	A	105	-24.674	14.760	20.804	1.00	43.97	A	C
ATOM	1325	CB	LEU	A	105	-24.851	13.233	20.871	1.00	41.45	A	C
ATOM	1328	CG	LEU	A	105	-25.261	12.560	19.555	1.00	36.84	A	C
ATOM	1330	CD1	LEU	A	105	-25.461	11.050	19.730	1.00	35.78	A	C
ATOM	1334	CD2	LEU	A	105	-26.525	13.233	18.983	1.00	28.50	A	C
ATOM	1338	C	LEU	A	105	-24.657	15.375	22.194	1.00	45.41	A	C

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ATOM	1339	O	LEU	A	105	-23.610	15.503	22.807	1.00	47.08	A	O
ATOM	1341	N	LEU	A	106	-25.831	15.787	22.665	1.00	48.88	A	N
ATOM	1342	CA	LEU	A	106	-25.983	16.396	23.993	1.00	48.41	A	C
ATOM	1344	CB	LEU	A	106	-25.943	17.925	23.897	1.00	47.38	A	C
ATOM	1347	CG	LEU	A	106	-26.502	18.786	25.040	1.00	45.25	A	C
ATOM	1349	CD1	LEU	A	106	-26.838	20.172	24.532	1.00	43.77	A	C
ATOM	1353	CD2	LEU	A	106	-25.554	18.846	26.224	1.00	37.10	A	C
ATOM	1357	C	LEU	A	106	-27.288	15.910	24.616	1.00	47.50	A	C
ATOM	1358	O	LEU	A	106	-28.341	15.970	23.992	1.00	42.37	A	O
ATOM	1360	N	LEU	A	107	-27.199	15.423	25.848	1.00	48.53	A	N
ATOM	1361	CA	LEU	A	107	-28.371	14.980	26.593	1.00	50.23	A	C
ATOM	1363	CB	LEU	A	107	-28.121	13.604	27.202	1.00	44.46	A	C
ATOM	1366	CG	LEU	A	107	-28.846	12.393	26.609	1.00	42.22	A	C
ATOM	1368	CD1	LEU	A	107	-27.865	11.380	26.021	1.00	38.30	A	C
ATOM	1372	CD2	LEU	A	107	-29.947	12.779	25.626	1.00	36.02	A	C
ATOM	1376	C	LEU	A	107	-28.747	16.000	27.683	1.00	49.80	A	C
ATOM	1377	O	LEU	A	107	-27.947	16.286	28.552	1.00	50.91	A	O
ATOM	1379	N	LEU	A	108	-29.959	16.551	27.618	1.00	51.07	A	N
ATOM	1380	CA	LEU	A	108	-30.424	17.538	28.605	1.00	51.31	A	C
ATOM	1382	CB	LEU	A	108	-31.114	18.729	27.930	1.00	49.10	A	C
ATOM	1385	CG	LEU	A	108	-30.339	19.782	27.123	1.00	50.36	A	C
ATOM	1387	CD1	LEU	A	108	-29.133	20.300	27.873	1.00	49.79	A	C
ATOM	1391	CD2	LEU	A	108	-29.916	19.224	25.783	1.00	56.15	A	C
ATOM	1395	C	LEU	A	108	-31.392	16.897	29.613	1.00	51.75	A	C
ATOM	1396	O	LEU	A	108	-32.364	16.254	29.227	1.00	47.73	A	O
ATOM	1398	N	GLN	A	109	-31.119	17.070	30.903	1.00	54.09	A	N
ATOM	1399	CA	GLN	A	109	-32.020	16.593	31.942	1.00	55.67	A	C
ATOM	1401	CB	GLN	A	109	-31.251	16.115	33.163	1.00	54.72	A	C
ATOM	1404	CG	GLN	A	109	-32.126	15.346	34.143	1.00	53.89	A	C
ATOM	1407	CD	GLN	A	109	-31.391	14.955	35.398	1.00	54.26	A	C
ATOM	1408	OE1	GLN	A	109	-30.578	15.723	35.924	1.00	55.12	A	O
ATOM	1409	NE2	GLN	A	109	-31.676	13.755	35.896	1.00	50.54	A	N
ATOM	1412	C	GLN	A	109	-32.960	17.715	32.351	1.00	57.09	A	C
ATOM	1413	O	GLN	A	109	-32.516	18.769	32.798	1.00	55.13	A	O
ATOM	1415	N	LEU	A	110	-34.261	17.479	32.227	1.00	59.10	A	N
ATOM	1416	CA	LEU	A	110	-35.246	18.507	32.566	1.00	61.11	A	C
ATOM	1418	CB	LEU	A	110	-36.612	18.196	31.944	1.00	58.48	A	C
ATOM	1421	CG	LEU	A	110	-36.657	17.967	30.430	1.00	53.45	A	C
ATOM	1423	CD1	LEU	A	110	-38.055	17.522	30.040	1.00	51.44	A	C
ATOM	1427	CD2	LEU	A	110	-36.223	19.200	29.656	1.00	44.58	A	C
ATOM	1431	C	LEU	A	110	-35.375	18.667	34.083	1.00	63.27	A	C
ATOM	1432	O	LEU	A	110	-34.950	17.791	34.851	1.00	62.43	A	O
ATOM	1434	N	SER	A	111	-35.956	19.796	34.493	1.00	64.47	A	N
ATOM	1435	CA	SER	A	111	-36.090	20.162	35.916	1.00	63.43	A	C
ATOM	1437	CB	SER	A	111	-36.803	21.513	36.064	1.00	62.75	A	C
ATOM	1440	OG	SER	A	111	-38.073	21.496	35.434	1.00	60.81	A	O
ATOM	1442	C	SER	A	111	-36.821	19.089	36.717	1.00	62.50	A	C
ATOM	1443	O	SER	A	111	-36.526	18.877	37.885	1.00	63.11	A	O
ATOM	1445	N	GLU	A	112	-37.776	18.434	36.064	1.00	61.33	A	N
ATOM	1446	CA	GLU	A	112	-38.462	17.258	36.582	1.00	62.10	A	C
ATOM	1448	CB	GLU	A	112	-39.701	17.670	37.389	1.00	65.45	A	C
ATOM	1451	CG	GLU	A	112	-40.651	18.649	36.667	1.00	65.19	A	C
ATOM	1454	CD	GLU	A	112	-42.020	18.740	37.329	1.00	65.68	A	C
ATOM	1455	OE1	GLU	A	112	-42.264	19.742	38.020	1.00	65.89	A	O
ATOM	1456	OE2	GLU	A	112	-42.851	17.815	37.170	1.00	64.67	A	O
ATOM	1457	C	GLU	A	112	-38.882	16.406	35.397	1.00	58.55	A	C
ATOM	1458	O	GLU	A	112	-38.713	16.814	34.255	1.00	55.38	A	O
ATOM	1460	N	LYS	A	113	-39.453	15.238	35.653	1.00	59.56	A	N
ATOM	1461	CA	LYS	A	113	-40.011	14.446	34.568	1.00	61.29	A	C
ATOM	1463	CB	LYS	A	113	-40.621	13.126	35.069	1.00	64.67	A	C
ATOM	1466	CG	LYS	A	113	-41.792	13.270	36.058	1.00	70.78	A	C
ATOM	1469	CD	LYS	A	113	-42.799	12.102	35.938	1.00	69.24	A	C
ATOM	1472	CE	LYS	A	113	-43.946	12.236	36.923	1.00	68.35	A	C
ATOM	1475	NZ	LYS	A	113	-44.749	13.459	36.646	1.00	71.97	A	N
ATOM	1479	C	LYS	A	113	-41.014	15.297	33.779	1.00	61.27	A	C
ATOM	1480	O	LYS	A	113	-41.679	16.174	34.330	1.00	61.20	A	O
ATOM	1482	N	ALA	A	114	-41.082	15.057	32.473	1.00	61.55	A	N
ATOM	1483	CA	ALA	A	114	-41.948	15.818	31.588	1.00	59.70	A	C

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ATOM	1485	CB	ALA	A	114	-41.507	15.640	30.124	1.00	60.17	A	C
ATOM	1489	C	ALA	A	114	-43.380	15.359	31.769	1.00	57.41	A	C
ATOM	1490	O	ALA	A	114	-43.640	14.167	31.819	1.00	57.49	A	O
ATOM	1492	N	THR	A	115	-44.300	16.313	31.869	1.00	56.47	A	N
ATOM	1493	CA	THR	A	115	-45.721	16.013	31.906	1.00	57.10	A	C
ATOM	1495	CB	THR	A	115	-46.565	17.245	32.281	1.00	51.25	A	C
ATOM	1497	OG1	THR	A	115	-45.964	17.909	33.395	1.00	47.12	A	O
ATOM	1499	CG2	THR	A	115	-47.978	16.828	32.642	1.00	48.71	A	C
ATOM	1503	C	THR	A	115	-46.136	15.462	30.536	1.00	59.04	A	C
ATOM	1504	O	THR	A	115	-46.222	16.198	29.542	1.00	58.19	A	O
ATOM	1506	N	LEU	A	116	-46.373	14.152	30.499	1.00	58.77	A	N
ATOM	1507	CA	LEU	A	116	-46.709	13.460	29.266	1.00	57.56	A	C
ATOM	1509	CB	LEU	A	116	-46.307	11.982	29.345	1.00	55.60	A	C
ATOM	1512	CG	LEU	A	116	-44.819	11.729	29.658	1.00	54.47	A	C
ATOM	1514	CD1	LEU	A	116	-44.496	10.248	29.704	1.00	53.55	A	C
ATOM	1518	CD2	LEU	A	116	-43.887	12.430	28.669	1.00	55.55	A	C
ATOM	1522	C	LEU	A	116	-48.184	13.647	28.941	1.00	56.26	A	C
ATOM	1523	O	LEU	A	116	-48.984	13.983	29.811	1.00	57.31	A	O
ATOM	1525	N	GLY	A	117	-48.526	13.466	27.669	1.00	57.80	A	N
ATOM	1526	CA	GLY	A	117	-49.882	13.720	27.179	1.00	58.66	A	C
ATOM	1529	C	GLY	A	117	-49.952	13.417	25.701	1.00	60.57	A	C
ATOM	1530	O	GLY	A	117	-49.035	12.787	25.169	1.00	62.21	A	O
ATOM	1532	N	PRO	A	118	-51.037	13.841	25.025	1.00	60.43	A	N
ATOM	1533	CA	PRO	A	118	-51.149	13.603	23.578	1.00	60.56	A	C
ATOM	1535	CB	PRO	A	118	-52.591	14.038	23.249	1.00	61.74	A	C
ATOM	1538	CG	PRO	A	118	-52.999	14.930	24.344	1.00	62.45	A	C
ATOM	1541	CD	PRO	A	118	-52.224	14.519	25.569	1.00	61.71	A	C
ATOM	1544	C	PRO	A	118	-50.122	14.372	22.732	1.00	59.24	A	C
ATOM	1545	O	PRO	A	118	-49.739	13.899	21.660	1.00	55.41	A	O
ATOM	1546	N	ALA	A	119	-49.683	15.530	23.236	1.00	60.29	A	N
ATOM	1547	CA	ALA	A	119	-48.747	16.425	22.545	1.00	57.02	A	C
ATOM	1549	CB	ALA	A	119	-49.257	17.846	22.657	1.00	52.94	A	C
ATOM	1553	C	ALA	A	119	-47.303	16.369	23.061	1.00	54.79	A	C
ATOM	1554	O	ALA	A	119	-46.443	17.063	22.523	1.00	57.26	A	O
ATOM	1556	N	VAL	A	120	-47.040	15.567	24.093	1.00	52.53	A	N
ATOM	1557	CA	VAL	A	120	-45.704	15.456	24.690	1.00	54.80	A	C
ATOM	1559	CB	VAL	A	120	-45.545	16.342	25.961	1.00	48.73	A	C
ATOM	1561	CG1	VAL	A	120	-44.154	16.209	26.543	1.00	42.03	A	C
ATOM	1565	CG2	VAL	A	120	-45.844	17.814	25.653	1.00	40.56	A	C
ATOM	1569	C	VAL	A	120	-45.391	13.996	25.039	1.00	57.52	A	C
ATOM	1570	O	VAL	A	120	-46.034	13.414	25.903	1.00	59.64	A	O
ATOM	1572	N	ARG	A	121	-44.379	13.426	24.383	1.00	61.52	A	N
ATOM	1573	CA	ARG	A	121	-44.082	11.989	24.471	1.00	62.26	A	C
ATOM	1575	CB	ARG	A	121	-45.138	11.187	23.685	1.00	66.21	A	C
ATOM	1578	CG	ARG	A	121	-44.864	9.681	23.609	1.00	69.04	A	C
ATOM	1581	CD	ARG	A	121	-45.949	8.917	22.841	1.00	72.08	A	C
ATOM	1584	NE	ARG	A	121	-46.104	7.529	23.305	1.00	74.39	A	N
ATOM	1586	CZ	ARG	A	121	-47.041	6.675	22.874	1.00	76.63	A	C
ATOM	1587	NH1	ARG	A	121	-47.924	7.051	21.948	1.00	79.00	A	N
ATOM	1590	NH2	ARG	A	121	-47.093	5.432	23.369	1.00	75.83	A	N
ATOM	1593	C	ARG	A	121	-42.676	11.646	23.937	1.00	60.65	A	C
ATOM	1594	O	ARG	A	121	-42.285	12.142	22.896	1.00	59.40	A	O
ATOM	1596	N	PRO	A	122	-41.908	10.804	24.656	1.00	60.04	A	N
ATOM	1597	CA	PRO	A	122	-40.622	10.333	24.116	1.00	57.74	A	C
ATOM	1599	CB	PRO	A	122	-40.052	9.454	25.233	1.00	57.79	A	C
ATOM	1602	CG	PRO	A	122	-41.139	9.263	26.226	1.00	60.27	A	C
ATOM	1605	CD	PRO	A	122	-42.157	10.323	26.029	1.00	60.02	A	C
ATOM	1608	C	PRO	A	122	-40.685	9.554	22.784	1.00	55.16	A	C
ATOM	1609	O	PRO	A	122	-41.685	8.901	22.482	1.00	53.39	A	O
ATOM	1610	N	LEU	A	123	-39.609	9.652	22.006	1.00	53.22	A	N
ATOM	1611	CA	LEU	A	123	-39.451	8.912	20.745	1.00	55.04	A	C
ATOM	1613	CB	LEU	A	123	-38.957	9.843	19.623	1.00	55.08	A	C
ATOM	1616	CG	LEU	A	123	-38.636	9.292	18.217	1.00	52.47	A	C
ATOM	1618	CD1	LEU	A	123	-37.967	10.359	17.363	1.00	48.36	A	C
ATOM	1622	CD2	LEU	A	123	-39.870	8.734	17.504	1.00	50.77	A	C
ATOM	1626	C	LEU	A	123	-38.460	7.757	20.939	1.00	54.62	A	C
ATOM	1627	O	LEU	A	123	-37.383	7.941	21.515	1.00	56.24	A	O
ATOM	1629	N	PRO	A	124	-38.835	6.556	20.483	1.00	53.12	A	N

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ATOM	1630	CA	PRO	A	124	-37.894	5.449	20.430	1.00	53.52	A	C
ATOM	1632	CB	PRO	A	124	-38.722	4.301	19.829	1.00	55.20	A	C
ATOM	1635	CG	PRO	A	124	-40.119	4.693	19.972	1.00	57.41	A	C
ATOM	1638	CD	PRO	A	124	-40.172	6.174	20.007	1.00	55.78	A	C
ATOM	1641	C	PRO	A	124	-36.735	5.770	19.492	1.00	50.75	A	C
ATOM	1642	O	PRO	A	124	-36.953	6.320	18.414	1.00	45.27	A	O
ATOM	1643	N	TRP	A	125	-35.522	5.414	19.883	1.00	49.34	A	N
ATOM	1644	CA	TRP	A	125	-34.367	5.701	19.048	1.00	49.97	A	C
ATOM	1646	CB	TRP	A	125	-33.424	6.687	19.759	1.00	45.53	A	C
ATOM	1649	CG	TRP	A	125	-32.992	6.244	21.122	1.00	46.06	A	C
ATOM	1650	CD1	TRP	A	125	-33.628	6.475	22.319	1.00	45.03	A	C
ATOM	1652	NE1	TRP	A	125	-32.910	5.910	23.352	1.00	43.44	A	N
ATOM	1654	CE2	TRP	A	125	-31.813	5.275	22.825	1.00	45.17	A	C
ATOM	1655	CD2	TRP	A	125	-31.831	5.475	21.428	1.00	45.03	A	C
ATOM	1656	CE3	TRP	A	125	-30.798	4.941	20.654	1.00	44.01	A	C
ATOM	1658	CZ3	TRP	A	125	-29.803	4.235	21.275	1.00	44.32	A	C
ATOM	1660	CH2	TRP	A	125	-29.806	4.052	22.667	1.00	44.85	A	C
ATOM	1662	CZ2	TRP	A	125	-30.799	4.565	23.456	1.00	45.17	A	C
ATOM	1664	C	TRP	A	125	-33.693	4.402	18.614	1.00	48.38	A	C
ATOM	1665	O	TRP	A	125	-33.809	3.386	19.278	1.00	51.66	A	O
ATOM	1667	N	GLN	A	126	-33.029	4.434	17.470	1.00	48.01	A	N
ATOM	1668	CA	GLN	A	126	-32.471	3.223	16.870	1.00	50.83	A	C
ATOM	1670	CB	GLN	A	126	-32.067	3.472	15.407	1.00	43.96	A	C
ATOM	1673	CG	GLN	A	126	-31.632	2.226	14.643	1.00	45.69	A	C
ATOM	1676	CD	GLN	A	126	-32.710	1.132	14.581	1.00	44.47	A	C
ATOM	1677	OE1	GLN	A	126	-32.695	0.199	15.370	1.00	43.95	A	O
ATOM	1678	NE2	GLN	A	126	-33.636	1.253	13.641	1.00	45.14	A	N
ATOM	1681	C	GLN	A	126	-31.294	2.657	17.687	1.00	50.87	A	C
ATOM	1682	O	GLN	A	126	-30.306	3.341	17.950	1.00	47.87	A	O
ATOM	1684	N	ARG	A	127	-31.425	1.396	18.079	1.00	54.20	A	N
ATOM	1685	CA	ARG	A	127	-30.458	0.737	18.943	1.00	56.29	A	C
ATOM	1687	CB	ARG	A	127	-31.210	-0.075	19.996	1.00	59.81	A	C
ATOM	1690	CG	ARG	A	127	-30.376	-0.441	21.206	1.00	61.36	A	C
ATOM	1693	CD	ARG	A	127	-31.242	-1.083	22.264	1.00	59.55	A	C
ATOM	1696	NE	ARG	A	127	-32.100	-0.089	22.892	1.00	59.79	A	N
ATOM	1698	CZ	ARG	A	127	-31.709	0.742	23.854	1.00	60.46	A	C
ATOM	1699	NH1	ARG	A	127	-30.460	0.703	24.313	1.00	57.51	A	N
ATOM	1702	NH2	ARG	A	127	-32.577	1.614	24.368	1.00	59.33	A	N
ATOM	1705	C	ARG	A	127	-29.508	-0.153	18.144	1.00	56.00	A	C
ATOM	1706	O	ARG	A	127	-28.355	-0.359	18.524	1.00	57.13	A	O
ATOM	1708	N	VAL	A	128	-29.990	-0.647	17.013	1.00	55.49	A	N
ATOM	1709	CA	VAL	A	128	-29.219	-1.523	16.161	1.00	54.95	A	C
ATOM	1711	CB	VAL	A	128	-30.149	-2.405	15.322	1.00	52.08	A	C
ATOM	1713	CG1	VAL	A	128	-29.350	-3.312	14.378	1.00	44.68	A	C
ATOM	1717	CG2	VAL	A	128	-31.075	-3.218	16.242	1.00	49.59	A	C
ATOM	1721	C	VAL	A	128	-28.344	-0.706	15.228	1.00	57.45	A	C
ATOM	1722	O	VAL	A	128	-28.820	0.186	14.499	1.00	54.19	A	O
ATOM	1724	N	ASP	A	129	-27.054	-1.027	15.250	1.00	57.86	A	N
ATOM	1725	CA	ASP	A	129	-26.064	-0.247	14.551	1.00	56.36	A	C
ATOM	1727	CB	ASP	A	129	-24.751	-0.243	15.331	1.00	51.89	A	C
ATOM	1730	CG	ASP	A	129	-23.748	0.735	14.772	1.00	48.61	A	C
ATOM	1731	OD1	ASP	A	129	-24.039	1.362	13.744	1.00	44.52	A	O
ATOM	1732	OD2	ASP	A	129	-22.662	0.868	15.350	1.00	45.72	A	O
ATOM	1733	C	ASP	A	129	-25.869	-0.761	13.138	1.00	55.26	A	C
ATOM	1734	O	ASP	A	129	-24.927	-1.488	12.847	1.00	48.89	A	O
ATOM	1736	N	ARG	A	130	-26.780	-0.365	12.259	1.00	57.45	A	N
ATOM	1737	CA	ARG	A	130	-26.550	-0.492	10.839	1.00	58.19	A	C
ATOM	1739	CB	ARG	A	130	-26.928	-1.878	10.301	1.00	70.29	A	C
ATOM	1742	CG	ARG	A	130	-28.174	-2.508	10.875	1.00	74.37	A	C
ATOM	1745	CD	ARG	A	130	-29.433	-1.799	10.391	1.00	81.38	A	C
ATOM	1748	NE	ARG	A	130	-30.660	-2.508	10.770	1.00	82.96	A	N
ATOM	1750	CZ	ARG	A	130	-31.098	-3.635	10.199	1.00	86.77	A	C
ATOM	1751	NH1	ARG	A	130	-30.413	-4.229	9.211	1.00	88.68	A	N
ATOM	1754	NH2	ARG	A	130	-32.229	-4.180	10.627	1.00	82.41	A	N
ATOM	1757	C	ARG	A	130	-27.234	0.641	10.090	1.00	54.91	A	C
ATOM	1758	O	ARG	A	130	-28.197	1.236	10.573	1.00	50.74	A	O
ATOM	1760	N	ASP	A	131	-26.695	0.950	8.915	1.00	50.40	A	N
ATOM	1761	CA	ASP	A	131	-27.135	2.100	8.143	1.00	48.43	A	C

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ATOM	1763	CB	ASP	A	131	-26.306	2.246	6.867	1.00	47.70	A	C
ATOM	1766	CG	ASP	A	131	-25.047	3.037	7.060	1.00	44.01	A	C
ATOM	1767	OD1	ASP	A	131	-24.899	3.710	8.100	1.00	41.41	A	O
ATOM	1768	OD2	ASP	A	131	-24.207	2.985	6.138	1.00	41.76	A	O
ATOM	1769	C	ASP	A	131	-28.567	2.006	7.702	1.00	44.62	A	C
ATOM	1770	O	ASP	A	131	-29.042	0.950	7.312	1.00	48.72	A	O
ATOM	1772	N	VAL	A	132	-29.246	3.136	7.715	1.00	43.05	A	N
ATOM	1773	CA	VAL	A	132	-30.486	3.265	6.979	1.00	40.82	A	C
ATOM	1775	CB	VAL	A	132	-31.152	4.598	7.225	1.00	36.97	A	C
ATOM	1777	CG1	VAL	A	132	-32.424	4.702	6.395	1.00	39.65	A	C
ATOM	1781	CG2	VAL	A	132	-31.456	4.742	8.674	1.00	35.91	A	C
ATOM	1785	C	VAL	A	132	-30.134	3.122	5.504	1.00	41.80	A	C
ATOM	1786	O	VAL	A	132	-29.155	3.679	5.036	1.00	43.66	A	O
ATOM	1788	N	ALA	A	133	-30.934	2.347	4.791	1.00	45.37	A	N
ATOM	1789	CA	ALA	A	133	-30.718	2.102	3.373	1.00	41.03	A	C
ATOM	1791	CB	ALA	A	133	-31.801	1.132	2.846	1.00	36.86	A	C
ATOM	1795	C	ALA	A	133	-30.758	3.414	2.581	1.00	37.89	A	C
ATOM	1796	O	ALA	A	133	-31.562	4.309	2.890	1.00	38.61	A	O
ATOM	1798	N	PRO	A	134	-29.892	3.545	1.563	1.00	36.46	A	N
ATOM	1799	CA	PRO	A	134	-29.977	4.671	0.632	1.00	37.07	A	C
ATOM	1801	CB	PRO	A	134	-28.945	4.320	-0.432	1.00	40.39	A	C
ATOM	1804	CG	PRO	A	134	-27.940	3.464	0.278	1.00	39.21	A	C
ATOM	1807	CD	PRO	A	134	-28.761	2.652	1.241	1.00	39.07	A	C
ATOM	1810	C	PRO	A	134	-31.366	4.802	0.013	1.00	40.84	A	C
ATOM	1811	O	PRO	A	134	-32.024	3.797	-0.243	1.00	44.50	A	O
ATOM	1812	N	GLY	A	135	-31.821	6.034	-0.186	1.00	39.61	A	N
ATOM	1813	CA	GLY	A	135	-33.135	6.291	-0.738	1.00	38.34	A	C
ATOM	1816	C	GLY	A	135	-34.275	6.255	0.261	1.00	39.46	A	C
ATOM	1817	O	GLY	A	135	-35.366	6.766	-0.020	1.00	40.78	A	O
ATOM	1819	N	THR	A	136	-34.052	5.648	1.418	1.00	37.77	A	N
ATOM	1820	CA	THR	A	136	-35.087	5.580	2.458	1.00	39.41	A	C
ATOM	1822	CB	THR	A	136	-34.534	4.964	3.749	1.00	36.87	A	C
ATOM	1824	OG1	THR	A	136	-33.934	3.699	3.448	1.00	34.97	A	O
ATOM	1826	CG2	THR	A	136	-35.630	4.798	4.809	1.00	34.42	A	C
ATOM	1830	C	THR	A	136	-35.574	6.988	2.775	1.00	39.88	A	C
ATOM	1831	O	THR	A	136	-34.776	7.890	2.906	1.00	44.04	A	O
ATOM	1833	N	LEU	A	137	-36.873	7.167	2.908	1.00	42.42	A	N
ATOM	1834	CA	LEU	A	137	-37.446	8.507	3.028	1.00	43.50	A	C
ATOM	1836	CB	LEU	A	137	-38.768	8.576	2.258	1.00	48.15	A	C
ATOM	1839	CG	LEU	A	137	-38.998	9.780	1.342	1.00	50.05	A	C
ATOM	1841	CD1	LEU	A	137	-37.799	10.070	0.474	1.00	50.80	A	C
ATOM	1845	CD2	LEU	A	137	-40.204	9.499	0.481	1.00	48.54	A	C
ATOM	1849	C	LEU	A	137	-37.661	8.820	4.498	1.00	44.18	A	C
ATOM	1850	O	LEU	A	137	-38.449	8.139	5.161	1.00	45.74	A	O
ATOM	1852	N	CYS	A	138	-36.936	9.826	5.008	1.00	41.15	A	N
ATOM	1853	CA	CYS	A	138	-36.949	10.158	6.431	1.00	37.84	A	C
ATOM	1855	CB	CYS	A	138	-35.573	10.017	7.070	1.00	37.40	A	C
ATOM	1858	SG	CYS	A	138	-34.773	8.455	6.806	1.00	43.05	A	S
ATOM	1860	C	CYS	A	138	-37.459	11.563	6.672	1.00	35.64	A	C
ATOM	1861	O	CYS	A	138	-37.437	12.409	5.798	1.00	32.56	A	O
ATOM	1863	N	ASP	A	139	-37.892	11.801	7.897	1.00	39.34	A	N
ATOM	1864	CA	ASP	A	139	-38.601	13.015	8.258	1.00	38.90	A	C
ATOM	1866	CB	ASP	A	139	-39.915	12.604	8.925	1.00	38.83	A	C
ATOM	1869	CG	ASP	A	139	-40.897	13.730	9.017	1.00	39.10	A	C
ATOM	1870	OD1	ASP	A	139	-40.831	14.649	8.205	1.00	36.42	A	O
ATOM	1871	OD2	ASP	A	139	-41.757	13.679	9.902	1.00	43.88	A	O
ATOM	1872	C	ASP	A	139	-37.752	13.826	9.229	1.00	37.70	A	C
ATOM	1873	O	ASP	A	139	-37.428	13.346	10.328	1.00	35.55	A	O
ATOM	1875	N	VAL	A	140	-37.367	15.036	8.822	1.00	36.26	A	N
ATOM	1876	CA	VAL	A	140	-36.714	15.974	9.735	1.00	36.61	A	C
ATOM	1878	CB	VAL	A	140	-35.296	16.374	9.228	1.00	37.18	A	C
ATOM	1880	CG1	VAL	A	140	-35.375	17.121	7.915	1.00	39.07	A	C
ATOM	1884	CG2	VAL	A	140	-34.531	17.220	10.272	1.00	36.57	A	C
ATOM	1888	C	VAL	A	140	-37.659	17.174	10.010	1.00	35.17	A	C
ATOM	1889	O	VAL	A	140	-38.335	17.676	9.115	1.00	30.43	A	O
ATOM	1891	N	ALA	A	141	-37.768	17.570	11.275	1.00	37.52	A	N
ATOM	1892	CA	ALA	A	141	-38.592	18.724	11.658	1.00	37.71	A	C
ATOM	1894	CB	ALA	A	141	-39.822	18.292	12.493	1.00	36.75	A	C

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ATOM	1898	C	ALA	A	141	-37.749	19.718	12.426	1.00	37.85	A	C
ATOM	1899	O	ALA	A	141	-36.688	19.354	13.000	1.00	32.37	A	O
ATOM	1901	N	GLY	A	142	-38.215	20.969	12.424	1.00	37.47	A	N
ATOM	1902	CA	GLY	A	142	-37.528	22.027	13.142	1.00	39.53	A	C
ATOM	1905	C	GLY	A	142	-38.056	23.434	12.962	1.00	39.91	A	C
ATOM	1906	O	GLY	A	142	-38.888	23.712	12.085	1.00	34.47	A	O
ATOM	1908	N	TRP	A	143	-37.532	24.332	13.797	1.00	40.62	A	N
ATOM	1909	CA	TRP	A	143	-37.880	25.746	13.733	1.00	40.77	A	C
ATOM	1911	CB	TRP	A	143	-38.228	26.277	15.126	1.00	36.15	A	C
ATOM	1914	CG	TRP	A	143	-39.550	25.865	15.693	1.00	34.52	A	C
ATOM	1915	CD1	TRP	A	143	-40.733	26.515	15.527	1.00	35.50	A	C
ATOM	1917	NE1	TRP	A	143	-41.713	25.898	16.250	1.00	36.17	A	N
ATOM	1919	CE2	TRP	A	143	-41.179	24.826	16.918	1.00	33.81	A	C
ATOM	1920	CD2	TRP	A	143	-39.815	24.768	16.590	1.00	26.46	A	C
ATOM	1921	CE3	TRP	A	143	-39.025	23.770	17.167	1.00	31.02	A	C
ATOM	1923	CZ3	TRP	A	143	-39.620	22.858	18.011	1.00	34.92	A	C
ATOM	1925	CH2	TRP	A	143	-40.998	22.921	18.298	1.00	34.20	A	C
ATOM	1927	CZ2	TRP	A	143	-41.787	23.905	17.772	1.00	34.41	A	C
ATOM	1929	C	TRP	A	143	-36.731	26.561	13.150	1.00	36.86	A	C
ATOM	1930	O	TRP	A	143	-36.637	27.751	13.400	1.00	37.75	A	O
ATOM	1932	N	GLY	A	144	-35.873	25.924	12.364	1.00	38.69	A	N
ATOM	1933	CA	GLY	A	144	-34.729	26.599	11.757	1.00	39.16	A	C
ATOM	1936	C	GLY	A	144	-35.109	27.384	10.520	1.00	38.42	A	C
ATOM	1937	O	GLY	A	144	-36.240	27.320	10.077	1.00	37.08	A	O
ATOM	1939	N	ILE	A	145	-34.157	28.111	9.946	1.00	42.31	A	N
ATOM	1940	CA	ILE	A	145	-34.445	28.986	8.800	1.00	42.33	A	C
ATOM	1942	CB	ILE	A	145	-33.175	29.777	8.293	1.00	39.85	A	C
ATOM	1944	CG1	ILE	A	145	-32.274	28.909	7.417	1.00	41.88	A	C
ATOM	1947	CD1	ILE	A	145	-30.951	29.589	6.997	1.00	44.49	A	C
ATOM	1951	CG2	ILE	A	145	-32.371	30.314	9.436	1.00	34.62	A	C
ATOM	1955	C	ILE	A	145	-35.115	28.247	7.614	1.00	41.51	A	C
ATOM	1956	O	ILE	A	145	-34.803	27.081	7.317	1.00	38.57	A	O
ATOM	1958	N	VAL	A	146	-36.037	28.957	6.955	1.00	43.53	A	N
ATOM	1959	CA	VAL	A	146	-36.881	28.409	5.892	1.00	41.17	A	C
ATOM	1961	CB	VAL	A	146	-38.384	28.657	6.174	1.00	39.49	A	C
ATOM	1963	CG1	VAL	A	146	-38.888	27.786	7.350	1.00	36.15	A	C
ATOM	1967	CG2	VAL	A	146	-38.653	30.133	6.425	1.00	35.62	A	C
ATOM	1971	C	VAL	A	146	-36.559	28.996	4.511	1.00	44.43	A	C
ATOM	1972	O	VAL	A	146	-37.202	28.633	3.504	1.00	40.71	A	O
ATOM	1974	N	ASN	A	147	-35.588	29.914	4.472	1.00	42.90	A	N
ATOM	1975	CA	ASN	A	147	-35.122	30.513	3.223	1.00	44.80	A	C
ATOM	1977	CB	ASN	A	147	-36.101	31.590	2.690	1.00	43.45	A	C
ATOM	1980	CG	ASN	A	147	-36.104	32.889	3.512	1.00	41.14	A	C
ATOM	1981	OD1	ASN	A	147	-35.173	33.181	4.270	1.00	36.71	A	O
ATOM	1982	ND2	ASN	A	147	-37.148	33.689	3.329	1.00	37.21	A	N
ATOM	1985	C	ASN	A	147	-33.718	31.060	3.396	1.00	46.56	A	C
ATOM	1986	O	ASN	A	147	-33.194	31.097	4.510	1.00	48.44	A	O
ATOM	1988	N	HIS	A	148	-33.114	31.465	2.287	1.00	48.59	A	N
ATOM	1989	CA	HIS	A	148	-31.741	31.979	2.281	1.00	50.16	A	C
ATOM	1991	CB	HIS	A	148	-31.152	31.881	0.880	1.00	51.69	A	C
ATOM	1994	CG	HIS	A	148	-31.045	30.479	0.368	1.00	55.88	A	C
ATOM	1995	ND1	HIS	A	148	-30.188	29.549	0.919	1.00	56.47	A	N
ATOM	1997	CE1	HIS	A	148	-30.308	28.407	0.266	1.00	56.86	A	C
ATOM	1999	NE2	HIS	A	148	-31.209	28.560	-0.688	1.00	57.60	A	N
ATOM	2001	CD2	HIS	A	148	-31.687	29.848	-0.645	1.00	57.94	A	C
ATOM	2003	C	HIS	A	148	-31.582	33.401	2.800	1.00	49.10	A	C
ATOM	2004	O	HIS	A	148	-30.453	33.839	3.012	1.00	50.47	A	O
ATOM	2006	N	ALA	A	149	-32.697	34.108	2.999	1.00	48.35	A	N
ATOM	2007	CA	ALA	A	149	-32.712	35.401	3.700	1.00	50.44	A	C
ATOM	2009	CB	ALA	A	149	-33.958	36.169	3.351	1.00	34.90	A	C
ATOM	2013	C	ALA	A	149	-32.613	35.272	5.227	1.00	53.69	A	C
ATOM	2014	O	ALA	A	149	-32.592	36.278	5.940	1.00	56.86	A	O
ATOM	2016	N	GLY	A	150	-32.593	34.041	5.725	1.00	55.55	A	N
ATOM	2017	CA	GLY	A	150	-32.489	33.776	7.146	1.00	55.44	A	C
ATOM	2020	C	GLY	A	150	-33.772	33.947	7.939	1.00	54.50	A	C
ATOM	2021	O	GLY	A	150	-33.702	34.154	9.148	1.00	52.01	A	O
ATOM	2023	N	ARG	A	151	-34.937	33.852	7.287	1.00	57.28	A	N
ATOM	2024	CA	ARG	A	151	-36.219	33.955	7.996	1.00	58.48	A	C

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ATOM	2026	CB	ARG	A	151	-37.414	33.950	7.034	1.00	57.67	A	C
ATOM	2029	CG	ARG	A	151	-38.741	34.183	7.748	1.00	58.97	A	C
ATOM	2032	CD	ARG	A	151	-39.673	35.111	7.040	1.00	65.28	A	C
ATOM	2035	NE	ARG	A	151	-40.025	34.644	5.707	1.00	69.75	A	N
ATOM	2037	CZ	ARG	A	151	-40.773	33.571	5.432	1.00	72.89	A	C
ATOM	2038	NH1	ARG	A	151	-41.262	32.785	6.391	1.00	73.75	A	N
ATOM	2041	NH2	ARG	A	151	-41.037	33.273	4.162	1.00	73.33	A	N
ATOM	2044	C	ARG	A	151	-36.203	32.791	9.004	1.00	57.87	A	C
ATOM	2045	O	ARG	A	151	-35.174	32.210	9.197	1.00	60.51	A	O
ATOM	2047	N	ARG	A	152	-37.313	32.425	9.608	1.00	59.47	A	N
ATOM	2048	CA	ARG	A	152	-37.374	31.773	10.912	1.00	56.90	A	C
ATOM	2050	CB	ARG	A	152	-36.818	32.599	12.082	1.00	62.78	A	C
ATOM	2053	CG	ARG	A	152	-35.303	32.885	12.141	1.00	66.60	A	C
ATOM	2056	CD	ARG	A	152	-34.399	31.707	11.801	1.00	69.59	A	C
ATOM	2059	NE	ARG	A	152	-33.990	30.879	12.935	1.00	70.08	A	N
ATOM	2061	CZ	ARG	A	152	-32.745	30.775	13.414	1.00	69.62	A	C
ATOM	2062	NH1	ARG	A	152	-32.507	29.957	14.433	1.00	69.04	A	N
ATOM	2065	NH2	ARG	A	152	-31.731	31.471	12.899	1.00	69.66	A	N
ATOM	2068	C	ARG	A	152	-38.874	31.614	11.029	1.00	50.16	A	C
ATOM	2069	O	ARG	A	152	-39.594	32.592	11.045	1.00	48.56	A	O
ATOM	2071	N	PRO	A	153	-39.357	30.375	11.038	1.00	48.68	A	N
ATOM	2072	CA	PRO	A	153	-40.798	30.179	11.122	1.00	47.58	A	C
ATOM	2074	CB	PRO	A	153	-40.959	28.719	10.715	1.00	44.69	A	C
ATOM	2077	CG	PRO	A	153	-39.689	28.059	11.206	1.00	39.90	A	C
ATOM	2080	CD	PRO	A	153	-38.622	29.094	11.003	1.00	43.66	A	C
ATOM	2083	C	PRO	A	153	-41.320	30.394	12.544	1.00	46.97	A	C
ATOM	2084	O	PRO	A	153	-40.578	30.251	13.507	1.00	48.12	A	O
ATOM	2085	N	ASP	A	154	-42.594	30.719	12.684	1.00	45.48	A	N
ATOM	2086	CA	ASP	A	154	-43.170	30.786	14.014	1.00	44.44	A	C
ATOM	2088	CB	ASP	A	154	-44.380	31.727	14.109	1.00	41.53	A	C
ATOM	2091	CG	ASP	A	154	-45.032	31.672	15.488	1.00	39.90	A	C
ATOM	2092	OD1	ASP	A	154	-44.490	32.293	16.427	1.00	38.75	A	O
ATOM	2093	OD2	ASP	A	154	-46.057	30.978	15.638	1.00	35.47	A	O
ATOM	2094	C	ASP	A	154	-43.569	29.389	14.447	1.00	40.16	A	C
ATOM	2095	O	ASP	A	154	-43.288	28.994	15.573	1.00	36.68	A	O
ATOM	2097	N	SER	A	155	-44.216	28.639	13.555	1.00	41.05	A	N
ATOM	2098	CA	SER	A	155	-44.588	27.250	13.858	1.00	42.47	A	C
ATOM	2100	CB	SER	A	155	-46.040	26.978	13.474	1.00	41.45	A	C
ATOM	2103	OG	SER	A	155	-46.312	27.377	12.149	1.00	46.34	A	O
ATOM	2105	C	SER	A	155	-43.654	26.188	13.239	1.00	43.44	A	C
ATOM	2106	O	SER	A	155	-42.904	26.455	12.277	1.00	41.58	A	O
ATOM	2108	N	LEU	A	156	-43.720	24.987	13.816	1.00	41.33	A	N
ATOM	2109	CA	LEU	A	156	-42.863	23.864	13.444	1.00	42.92	A	C
ATOM	2111	CB	LEU	A	156	-43.144	22.677	14.382	1.00	42.64	A	C
ATOM	2114	CG	LEU	A	156	-42.266	21.442	14.220	1.00	40.09	A	C
ATOM	2116	CD1	LEU	A	156	-40.893	21.795	14.703	1.00	31.96	A	C
ATOM	2120	CD2	LEU	A	156	-42.873	20.204	14.959	1.00	34.86	A	C
ATOM	2124	C	LEU	A	156	-43.045	23.424	11.979	1.00	42.41	A	C
ATOM	2125	O	LEU	A	156	-44.168	23.285	11.491	1.00	37.99	A	O
ATOM	2127	N	GLN	A	157	-41.918	23.212	11.302	1.00	44.06	A	N
ATOM	2128	CA	GLN	A	157	-41.878	22.811	9.899	1.00	44.55	A	C
ATOM	2130	CB	GLN	A	157	-40.993	23.768	9.092	1.00	43.27	A	C
ATOM	2133	CG	GLN	A	157	-41.327	25.206	9.223	1.00	40.04	A	C
ATOM	2136	CD	GLN	A	157	-42.491	25.601	8.352	1.00	43.07	A	C
ATOM	2137	OE1	GLN	A	157	-42.475	25.368	7.137	1.00	44.65	A	O
ATOM	2138	NE2	GLN	A	157	-43.497	26.234	8.956	1.00	34.27	A	N
ATOM	2141	C	GLN	A	157	-41.258	21.443	9.787	1.00	42.62	A	C
ATOM	2142	O	GLN	A	157	-40.615	20.981	10.719	1.00	41.92	A	O
ATOM	2144	N	HIS	A	158	-41.416	20.813	8.629	1.00	42.05	A	N
ATOM	2145	CA	HIS	A	158	-40.799	19.522	8.399	1.00	44.73	A	C
ATOM	2147	CB	HIS	A	158	-41.643	18.415	9.052	1.00	45.15	A	C
ATOM	2150	CG	HIS	A	158	-42.773	17.932	8.207	1.00	42.71	A	C
ATOM	2151	ND1	HIS	A	158	-43.941	18.649	8.051	1.00	44.34	A	N
ATOM	2153	CE1	HIS	A	158	-44.748	17.992	7.240	1.00	46.07	A	C
ATOM	2155	NE2	HIS	A	158	-44.147	16.873	6.869	1.00	46.91	A	N
ATOM	2157	CD2	HIS	A	158	-42.913	16.808	7.464	1.00	39.06	A	C
ATOM	2159	C	HIS	A	158	-40.582	19.261	6.914	1.00	45.23	A	C
ATOM	2160	O	HIS	A	158	-41.121	19.971	6.068	1.00	45.76	A	O

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ATOM	2162	N	VAL	A	159	-39.773	18.247	6.610	1.00	42.85	A	N
ATOM	2163	CA	VAL	A	159	-39.509	17.849	5.218	1.00	44.46	A	C
ATOM	2165	CB	VAL	A	159	-38.377	18.727	4.543	1.00	40.51	A	C
ATOM	2167	CG1	VAL	A	159	-36.990	18.315	5.020	1.00	36.60	A	C
ATOM	2171	CG2	VAL	A	159	-38.467	18.658	3.037	1.00	31.26	A	C
ATOM	2175	C	VAL	A	159	-39.142	16.372	5.146	1.00	43.03	A	C
ATOM	2176	O	VAL	A	159	-38.463	15.856	6.035	1.00	39.12	A	O
ATOM	2178	N	LEU	A	160	-39.606	15.698	4.098	1.00	45.51	A	N
ATOM	2179	CA	LEU	A	160	-39.172	14.323	3.808	1.00	47.40	A	C
ATOM	2181	CB	LEU	A	160	-40.261	13.498	3.112	1.00	49.83	A	C
ATOM	2184	CG	LEU	A	160	-41.089	12.623	4.033	1.00	49.40	A	C
ATOM	2186	CD1	LEU	A	160	-41.633	13.473	5.154	1.00	50.44	A	C
ATOM	2190	CD2	LEU	A	160	-42.199	11.971	3.235	1.00	49.87	A	C
ATOM	2194	C	LEU	A	160	-37.936	14.340	2.935	1.00	45.22	A	C
ATOM	2195	O	LEU	A	160	-37.911	15.004	1.913	1.00	45.19	A	O
ATOM	2197	N	LEU	A	161	-36.920	13.592	3.351	1.00	42.96	A	N
ATOM	2198	CA	LEU	A	161	-35.634	13.594	2.694	1.00	43.40	A	C
ATOM	2200	CB	LEU	A	161	-34.591	14.346	3.539	1.00	43.07	A	C
ATOM	2203	CG	LEU	A	161	-34.879	15.796	3.937	1.00	39.52	A	C
ATOM	2205	CD1	LEU	A	161	-33.810	16.315	4.893	1.00	39.37	A	C
ATOM	2209	CD2	LEU	A	161	-34.995	16.701	2.707	1.00	39.15	A	C
ATOM	2213	C	LEU	A	161	-35.187	12.160	2.482	1.00	43.31	A	C
ATOM	2214	O	LEU	A	161	-35.307	11.349	3.386	1.00	44.13	A	O
ATOM	2216	N	PRO	A	162	-34.679	11.839	1.283	1.00	43.26	A	N
ATOM	2217	CA	PRO	A	162	-34.068	10.532	1.057	1.00	40.13	A	C
ATOM	2219	CB	PRO	A	162	-34.038	10.390	-0.471	1.00	41.24	A	C
ATOM	2222	CG	PRO	A	162	-34.565	11.675	-1.037	1.00	48.49	A	C
ATOM	2225	CD	PRO	A	162	-34.679	12.676	0.070	1.00	48.01	A	C
ATOM	2228	C	PRO	A	162	-32.647	10.427	1.601	1.00	40.60	A	C
ATOM	2229	O	PRO	A	162	-31.813	11.299	1.354	1.00	36.37	A	O
ATOM	2230	N	VAL	A	163	-32.379	9.355	2.330	1.00	39.55	A	N
ATOM	2231	CA	VAL	A	163	-31.032	9.065	2.763	1.00	39.40	A	C
ATOM	2233	CB	VAL	A	163	-30.956	7.757	3.593	1.00	42.89	A	C
ATOM	2235	CG1	VAL	A	163	-29.541	7.267	3.701	1.00	35.35	A	C
ATOM	2239	CG2	VAL	A	163	-31.570	7.965	4.992	1.00	42.51	A	C
ATOM	2243	C	VAL	A	163	-30.114	8.975	1.536	1.00	42.15	A	C
ATOM	2244	O	VAL	A	163	-30.477	8.401	0.502	1.00	42.10	A	O
ATOM	2246	N	LEU	A	164	-28.932	9.577	1.675	1.00	41.57	A	N
ATOM	2247	CA	LEU	A	164	-27.919	9.566	0.670	1.00	37.06	A	C
ATOM	2249	CB	LEU	A	164	-27.456	11.005	0.439	1.00	41.05	A	C
ATOM	2252	CG	LEU	A	164	-26.429	11.203	-0.670	1.00	41.57	A	C
ATOM	2254	CD1	LEU	A	164	-27.047	10.795	-2.001	1.00	45.00	A	C
ATOM	2258	CD2	LEU	A	164	-25.922	12.631	-0.709	1.00	40.98	A	C
ATOM	2262	C	LEU	A	164	-26.787	8.673	1.181	1.00	37.55	A	C
ATOM	2263	O	LEU	A	164	-26.374	8.807	2.329	1.00	39.36	A	O
ATOM	2265	N	ASP	A	165	-26.299	7.752	0.343	1.00	38.67	A	N
ATOM	2266	CA	ASP	A	165	-25.259	6.814	0.764	1.00	34.02	A	C
ATOM	2268	CB	ASP	A	165	-25.021	5.713	-0.274	1.00	34.85	A	C
ATOM	2271	CG	ASP	A	165	-24.223	6.185	-1.468	1.00	39.94	A	C
ATOM	2272	OD1	ASP	A	165	-24.768	6.928	-2.313	1.00	40.37	A	O
ATOM	2273	OD2	ASP	A	165	-23.043	5.791	-1.571	1.00	42.24	A	O
ATOM	2274	C	ASP	A	165	-23.965	7.556	1.066	1.00	33.34	A	C
ATOM	2275	O	ASP	A	165	-23.725	8.649	0.531	1.00	32.61	A	O
ATOM	2277	N	ARG	A	166	-23.131	6.931	1.903	1.00	29.45	A	N
ATOM	2278	CA	ARG	A	166	-21.949	7.558	2.432	1.00	30.14	A	C
ATOM	2280	CB	ARG	A	166	-21.367	6.704	3.555	1.00	32.72	A	C
ATOM	2283	CG	ARG	A	166	-20.189	7.359	4.305	1.00	35.16	A	C
ATOM	2286	CD	ARG	A	166	-19.898	6.687	5.662	1.00	32.27	A	C
ATOM	2289	NE	ARG	A	166	-21.056	6.758	6.544	1.00	33.16	A	N
ATOM	2291	CZ	ARG	A	166	-21.899	5.762	6.780	1.00	36.14	A	C
ATOM	2292	NH1	ARG	A	166	-21.738	4.577	6.208	1.00	34.13	A	N
ATOM	2295	NH2	ARG	A	166	-22.926	5.962	7.597	1.00	33.96	A	N
ATOM	2298	C	ARG	A	166	-20.881	7.809	1.361	1.00	33.09	A	C
ATOM	2299	O	ARG	A	166	-20.160	8.811	1.432	1.00	33.92	A	O
ATOM	2301	N	ALA	A	167	-20.768	6.903	0.388	1.00	30.20	A	N
ATOM	2302	CA	ALA	A	167	-19.770	7.041	-0.658	1.00	29.35	A	C
ATOM	2304	CB	ALA	A	167	-19.646	5.748	-1.545	1.00	22.50	A	C
ATOM	2308	C	ALA	A	167	-20.104	8.264	-1.471	1.00	29.35	A	C

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ATOM	2309	O	ALA	A	167	-19.282	9.156	-1.626	1.00	36.53	A	O
ATOM	2311	N	THR	A	168	-21.326	8.365	-1.943	1.00	30.11	A	N
ATOM	2312	CA	THR	A	168	-21.747	9.594	-2.644	1.00	32.69	A	C
ATOM	2314	CB	THR	A	168	-23.235	9.561	-3.009	1.00	32.60	A	C
ATOM	2316	OG1	THR	A	168	-23.504	8.411	-3.816	1.00	30.46	A	O
ATOM	2318	CG2	THR	A	168	-23.659	10.831	-3.752	1.00	31.41	A	C
ATOM	2322	C	THR	A	168	-21.513	10.844	-1.791	1.00	35.88	A	C
ATOM	2323	O	THR	A	168	-21.073	11.884	-2.280	1.00	36.06	A	O
ATOM	2325	N	CYS	A	169	-21.813	10.738	-0.501	1.00	37.03	A	N
ATOM	2326	CA	CYS	A	169	-21.654	11.875	0.394	1.00	35.32	A	C
ATOM	2328	CB	CYS	A	169	-22.320	11.600	1.745	1.00	35.01	A	C
ATOM	2331	SG	CYS	A	169	-22.912	13.131	2.437	1.00	38.59	A	S
ATOM	2333	C	CYS	A	169	-20.188	12.303	0.601	1.00	36.35	A	C
ATOM	2334	O	CYS	A	169	-19.909	13.470	0.914	1.00	35.05	A	O
ATOM	2336	N	ASN	A	170	-19.276	11.340	0.459	1.00	36.34	A	N
ATOM	2337	CA	ASN	A	170	-17.864	11.569	0.643	1.00	35.95	A	C
ATOM	2339	CB	ASN	A	170	-17.227	10.334	1.279	1.00	37.51	A	C
ATOM	2342	CG	ASN	A	170	-17.286	10.377	2.771	1.00	34.09	A	C
ATOM	2343	OD1	ASN	A	170	-17.147	11.439	3.359	1.00	36.99	A	O
ATOM	2344	ND2	ASN	A	170	-17.481	9.225	3.401	1.00	35.29	A	N
ATOM	2347	C	ASN	A	170	-17.076	11.997	-0.619	1.00	37.38	A	C
ATOM	2348	O	ASN	A	170	-15.844	12.225	-0.563	1.00	36.39	A	O
ATOM	2350	N	ARG	A	171	-17.778	12.135	-1.735	1.00	33.37	A	N
ATOM	2351	CA	ARG	A	171	-17.174	12.663	-2.951	1.00	35.17	A	C
ATOM	2353	CB	ARG	A	171	-18.210	12.811	-4.060	1.00	35.92	A	C
ATOM	2356	CG	ARG	A	171	-18.870	11.511	-4.486	1.00	41.00	A	C
ATOM	2359	CD	ARG	A	171	-19.026	11.464	-5.977	1.00	45.26	A	C
ATOM	2362	NE	ARG	A	171	-19.745	12.634	-6.426	1.00	45.08	A	N
ATOM	2364	CZ	ARG	A	171	-21.050	12.674	-6.684	1.00	52.64	A	C
ATOM	2365	NH1	ARG	A	171	-21.594	13.824	-7.073	1.00	55.26	A	N
ATOM	2368	NH2	ARG	A	171	-21.819	11.585	-6.583	1.00	48.32	A	N
ATOM	2371	C	ARG	A	171	-16.558	14.023	-2.696	1.00	36.07	A	C
ATOM	2372	O	ARG	A	171	-16.988	14.739	-1.782	1.00	34.21	A	O
ATOM	2374	N	ARG	A	172	-15.576	14.412	-3.516	1.00	35.32	A	N
ATOM	2375	CA	ARG	A	172	-14.899	15.720	-3.286	1.00	35.05	A	C
ATOM	2377	CB	ARG	A	172	-13.718	15.943	-4.223	1.00	35.37	A	C
ATOM	2380	CG	ARG	A	172	-14.065	16.317	-5.630	1.00	34.24	A	C
ATOM	2383	CD	ARG	A	172	-12.840	16.294	-6.492	1.00	35.34	A	C
ATOM	2386	NE	ARG	A	172	-12.237	14.959	-6.560	1.00	38.21	A	N
ATOM	2388	CZ	ARG	A	172	-11.046	14.688	-7.101	1.00	40.10	A	C
ATOM	2389	NH1	ARG	A	172	-10.289	15.657	-7.608	1.00	38.18	A	N
ATOM	2392	NH2	ARG	A	172	-10.593	13.444	-7.114	1.00	40.26	A	N
ATOM	2395	C	ARG	A	172	-15.850	16.906	-3.420	1.00	35.61	A	C
ATOM	2396	O	ARG	A	172	-15.688	17.927	-2.734	1.00	32.88	A	O
ATOM	2398	N	THR	A	173	-16.847	16.741	-4.299	1.00	35.32	A	N
ATOM	2399	CA	THR	A	173	-17.841	17.755	-4.559	1.00	31.84	A	C
ATOM	2401	CB	THR	A	173	-18.780	17.373	-5.699	1.00	31.65	A	C
ATOM	2403	OG1	THR	A	173	-18.045	16.842	-6.802	1.00	39.07	A	O
ATOM	2405	CG2	THR	A	173	-19.616	18.591	-6.168	1.00	31.50	A	C
ATOM	2409	C	THR	A	173	-18.718	17.998	-3.327	1.00	37.18	A	C
ATOM	2410	O	THR	A	173	-19.266	19.073	-3.168	1.00	40.53	A	O
ATOM	2412	N	HIS	A	174	-18.867	16.976	-2.484	1.00	39.46	A	N
ATOM	2413	CA	HIS	A	174	-19.766	16.996	-1.356	1.00	34.34	A	C
ATOM	2415	CB	HIS	A	174	-20.615	15.720	-1.335	1.00	36.83	A	C
ATOM	2418	CG	HIS	A	174	-21.535	15.599	-2.515	1.00	38.56	A	C
ATOM	2419	ND1	HIS	A	174	-21.877	14.391	-3.080	1.00	40.71	A	N
ATOM	2421	CE1	HIS	A	174	-22.706	14.594	-4.090	1.00	40.10	A	C
ATOM	2423	NE2	HIS	A	174	-22.903	15.889	-4.209	1.00	41.44	A	N
ATOM	2425	CD2	HIS	A	174	-22.174	16.541	-3.243	1.00	42.80	A	C
ATOM	2427	C	HIS	A	174	-18.967	17.215	-0.090	1.00	33.27	A	C
ATOM	2428	O	HIS	A	174	-18.417	18.300	0.083	1.00	39.26	A	O
ATOM	2430	N	HIS	A	175	-18.826	16.212	0.771	1.00	36.74	A	N
ATOM	2431	CA	HIS	A	175	-18.122	16.408	2.055	1.00	34.92	A	C
ATOM	2433	CB	HIS	A	175	-19.007	15.957	3.224	1.00	37.96	A	C
ATOM	2436	CG	HIS	A	175	-20.281	16.728	3.335	1.00	30.83	A	C
ATOM	2437	ND1	HIS	A	175	-20.314	18.060	3.670	1.00	33.14	A	N
ATOM	2439	CE1	HIS	A	175	-21.565	18.476	3.682	1.00	37.37	A	C
ATOM	2441	NE2	HIS	A	175	-22.343	17.457	3.373	1.00	32.52	A	N

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ATOM	2443	CD2	HIS	A	175	-21.562	16.355	3.147	1.00	29.73	A	C
ATOM	2445	C	HIS	A	175	-16.759	15.740	2.160	1.00	36.04	A	C
ATOM	2446	O	HIS	A	175	-16.167	15.733	3.257	1.00	31.58	A	O
ATOM	2448	N	ASP	A	176	-16.297	15.152	1.055	1.00	35.29	A	N
ATOM	2449	CA	ASP	A	176	-14.863	14.891	0.815	1.00	37.38	A	C
ATOM	2451	CB	ASP	A	176	-14.145	16.244	0.587	1.00	40.18	A	C
ATOM	2454	CG	ASP	A	176	-12.887	16.127	-0.256	1.00	42.80	A	C
ATOM	2455	OD1	ASP	A	176	-12.664	15.064	-0.864	1.00	45.47	A	O
ATOM	2456	OD2	ASP	A	176	-12.116	17.122	-0.315	1.00	45.22	A	O
ATOM	2457	C	ASP	A	176	-14.164	14.052	1.902	1.00	38.60	A	C
ATOM	2458	O	ASP	A	176	-13.057	14.391	2.365	1.00	34.18	A	O
ATOM	2460	N	GLY	A	177	-14.809	12.944	2.289	1.00	35.76	A	N
ATOM	2461	CA	GLY	A	177	-14.217	11.994	3.235	1.00	33.97	A	C
ATOM	2464	C	GLY	A	177	-14.545	12.278	4.674	1.00	34.54	A	C
ATOM	2465	O	GLY	A	177	-14.194	11.471	5.556	1.00	36.61	A	O
ATOM	2467	N	ALA	A	178	-15.232	13.396	4.926	1.00	34.17	A	N
ATOM	2468	CA	ALA	A	178	-15.570	13.836	6.287	1.00	33.34	A	C
ATOM	2470	CB	ALA	A	178	-16.009	15.308	6.243	1.00	32.67	A	C
ATOM	2474	C	ALA	A	178	-16.658	12.977	6.956	1.00	35.09	A	C
ATOM	2475	O	ALA	A	178	-16.825	13.001	8.197	1.00	35.68	A	O
ATOM	2477	N	ILE	A	179	-17.387	12.209	6.143	1.00	34.85	A	N
ATOM	2478	CA	ILE	A	179	-18.537	11.441	6.619	1.00	33.31	A	C
ATOM	2480	CB	ILE	A	179	-19.607	11.325	5.548	1.00	33.10	A	C
ATOM	2482	CG1	ILE	A	179	-19.876	12.702	4.917	1.00	32.61	A	C
ATOM	2485	CD1	ILE	A	179	-20.518	13.742	5.892	1.00	26.74	A	C
ATOM	2489	CG2	ILE	A	179	-20.934	10.734	6.163	1.00	33.35	A	C
ATOM	2493	C	ILE	A	179	-18.065	10.074	7.064	1.00	32.66	A	C
ATOM	2494	O	ILE	A	179	-17.679	9.247	6.228	1.00	31.85	A	O
ATOM	2496	N	THR	A	180	-18.087	9.873	8.389	1.00	32.08	A	N
ATOM	2497	CA	THR	A	180	-17.640	8.666	9.052	1.00	35.33	A	C
ATOM	2499	CB	THR	A	180	-17.069	8.976	10.479	1.00	33.07	A	C
ATOM	2501	OG1	THR	A	180	-18.126	9.422	11.333	1.00	32.91	A	O
ATOM	2503	CG2	THR	A	180	-15.970	10.067	10.446	1.00	27.89	A	C
ATOM	2507	C	THR	A	180	-18.828	7.711	9.189	1.00	40.80	A	C
ATOM	2508	O	THR	A	180	-19.955	8.028	8.778	1.00	37.76	A	O
ATOM	2510	N	GLU	A	181	-18.563	6.545	9.777	1.00	42.59	A	N
ATOM	2511	CA	GLU	A	181	-19.592	5.537	9.976	1.00	46.07	A	C
ATOM	2513	CB	GLU	A	181	-18.965	4.151	10.239	1.00	52.78	A	C
ATOM	2516	CG	GLU	A	181	-18.696	3.397	8.916	1.00	58.42	A	C
ATOM	2519	CD	GLU	A	181	-17.813	2.170	9.052	1.00	60.39	A	C
ATOM	2520	OE1	GLU	A	181	-16.635	2.324	9.451	1.00	68.43	A	O
ATOM	2521	OE2	GLU	A	181	-18.280	1.054	8.707	1.00	65.42	A	O
ATOM	2522	C	GLU	A	181	-20.592	5.914	11.050	1.00	42.26	A	C
ATOM	2523	O	GLU	A	181	-21.602	5.234	11.197	1.00	39.09	A	O
ATOM	2525	N	ARG	A	182	-20.355	7.027	11.750	1.00	41.52	A	N
ATOM	2526	CA	ARG	A	182	-21.281	7.469	12.811	1.00	42.98	A	C
ATOM	2528	CB	ARG	A	182	-20.538	7.807	14.116	1.00	49.75	A	C
ATOM	2531	CG	ARG	A	182	-19.086	7.427	14.098	1.00	53.11	A	C
ATOM	2534	CD	ARG	A	182	-18.570	6.685	15.307	1.00	55.33	A	C
ATOM	2537	NE	ARG	A	182	-17.822	5.492	14.858	1.00	63.67	A	N
ATOM	2539	CZ	ARG	A	182	-16.805	5.478	13.980	1.00	58.31	A	C
ATOM	2540	NH1	ARG	A	182	-16.338	6.585	13.414	1.00	53.04	A	N
ATOM	2543	NH2	ARG	A	182	-16.234	4.322	13.667	1.00	62.47	A	N
ATOM	2546	C	ARG	A	182	-22.114	8.655	12.375	1.00	35.97	A	C
ATOM	2547	O	ARG	A	182	-22.873	9.207	13.174	1.00	37.71	A	O
ATOM	2549	N	LEU	A	183	-21.958	9.050	11.117	1.00	34.71	A	N
ATOM	2550	CA	LEU	A	183	-22.720	10.148	10.535	1.00	37.15	A	C
ATOM	2552	CB	LEU	A	183	-21.800	11.297	10.073	1.00	30.19	A	C
ATOM	2555	CG	LEU	A	183	-20.960	12.009	11.161	1.00	32.92	A	C
ATOM	2557	CD1	LEU	A	183	-19.906	12.924	10.528	1.00	25.12	A	C
ATOM	2561	CD2	LEU	A	183	-21.838	12.799	12.177	1.00	26.48	A	C
ATOM	2565	C	LEU	A	183	-23.490	9.566	9.356	1.00	35.94	A	C
ATOM	2566	O	LEU	A	183	-23.047	8.597	8.746	1.00	39.28	A	O
ATOM	2568	N	MET	A	184	-24.650	10.138	9.059	1.00	35.50	A	N
ATOM	2569	CA	MET	A	184	-25.404	9.759	7.864	1.00	37.11	A	C
ATOM	2571	CB	MET	A	184	-26.694	8.985	8.198	1.00	36.84	A	C
ATOM	2574	CG	MET	A	184	-27.614	9.629	9.220	1.00	35.25	A	C
ATOM	2577	SD	MET	A	184	-29.141	8.700	9.560	1.00	36.12	A	S

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ATOM	2578	CE	MET	A	184	-29.872	8.750	7.919	1.00	31.31	A	C
ATOM	2582	C	MET	A	184	-25.716	11.014	7.081	1.00	32.51	A	C
ATOM	2583	O	MET	A	184	-25.638	12.108	7.611	1.00	32.39	A	O
ATOM	2585	N	CYS	A	185	-26.058	10.839	5.817	1.00	33.27	A	N
ATOM	2586	CA	CYS	A	185	-26.361	11.948	4.940	1.00	36.65	A	C
ATOM	2588	CB	CYS	A	185	-25.371	11.982	3.770	1.00	41.74	A	C
ATOM	2591	SG	CYS	A	185	-23.777	12.677	4.200	1.00	41.29	A	S
ATOM	2593	C	CYS	A	185	-27.762	11.835	4.415	1.00	35.13	A	C
ATOM	2594	O	CYS	A	185	-28.290	10.744	4.295	1.00	36.05	A	O
ATOM	2596	N	ALA	A	186	-28.361	12.980	4.113	1.00	35.07	A	N
ATOM	2597	CA	ALA	A	186	-29.600	13.031	3.364	1.00	36.97	A	C
ATOM	2599	CB	ALA	A	186	-30.700	13.420	4.251	1.00	34.59	A	C
ATOM	2603	C	ALA	A	186	-29.415	14.055	2.256	1.00	40.76	A	C
ATOM	2604	O	ALA	A	186	-28.535	14.934	2.356	1.00	43.01	A	O
ATOM	2606	N	GLU	A	187	-30.220	13.923	1.201	1.00	41.54	A	N
ATOM	2607	CA	GLU	A	187	-30.200	14.851	0.078	1.00	44.50	A	C
ATOM	2609	CB	GLU	A	187	-31.098	14.354	-1.070	1.00	48.87	A	C
ATOM	2612	CG	GLU	A	187	-30.496	13.141	-1.834	1.00	52.00	A	C
ATOM	2615	CD	GLU	A	187	-31.376	12.633	-2.986	1.00	54.41	A	C
ATOM	2616	OE1	GLU	A	187	-32.154	13.437	-3.559	1.00	58.93	A	O
ATOM	2617	OE2	GLU	A	187	-31.284	11.426	-3.314	1.00	51.51	A	O
ATOM	2618	C	GLU	A	187	-30.582	16.265	0.511	1.00	42.90	A	C
ATOM	2619	O	GLU	A	187	-31.275	16.474	1.510	1.00	38.50	A	O
ATOM	2621	N	SER	A	188	-30.070	17.233	-0.240	1.00	43.71	A	N
ATOM	2622	CA	SER	A	188	-30.182	18.632	0.112	1.00	43.54	A	C
ATOM	2624	CB	SER	A	188	-28.834	19.108	0.614	1.00	40.57	A	C
ATOM	2627	OG	SER	A	188	-27.876	18.837	-0.377	1.00	38.62	A	O
ATOM	2629	C	SER	A	188	-30.593	19.548	-1.031	1.00	44.88	A	C
ATOM	2630	O	SER	A	188	-30.533	20.760	-0.859	1.00	47.60	A	O
ATOM	2632	N	ASN	A	189	-31.023	19.003	-2.171	1.00	47.37	A	N
ATOM	2633	CA	ASN	A	189	-31.386	19.848	-3.307	1.00	49.15	A	C
ATOM	2635	CB	ASN	A	189	-31.507	19.046	-4.607	1.00	50.03	A	C
ATOM	2638	CG	ASN	A	189	-31.408	19.934	-5.860	1.00	52.49	A	C
ATOM	2639	OD1	ASN	A	189	-31.165	21.140	-5.771	1.00	56.54	A	O
ATOM	2640	ND2	ASN	A	189	-31.574	19.331	-7.027	1.00	55.58	A	N
ATOM	2643	C	ASN	A	189	-32.675	20.626	-3.034	1.00	49.54	A	C
ATOM	2644	O	ASN	A	189	-33.777	20.087	-3.183	1.00	45.35	A	O
ATOM	2646	N	ARG	A	190	-32.514	21.882	-2.600	1.00	51.57	A	N
ATOM	2647	CA	ARG	A	190	-33.637	22.800	-2.337	1.00	58.42	A	C
ATOM	2649	CB	ARG	A	190	-34.354	23.157	-3.653	1.00	62.87	A	C
ATOM	2652	CG	ARG	A	190	-33.390	23.705	-4.743	1.00	69.39	A	C
ATOM	2655	CD	ARG	A	190	-34.114	24.181	-6.002	1.00	71.52	A	C
ATOM	2658	NE	ARG	A	190	-35.117	23.216	-6.472	1.00	76.40	A	N
ATOM	2660	CZ	ARG	A	190	-35.997	23.448	-7.452	1.00	76.82	A	C
ATOM	2661	NH1	ARG	A	190	-36.010	24.613	-8.103	1.00	78.15	A	N
ATOM	2664	NH2	ARG	A	190	-36.878	22.504	-7.789	1.00	77.18	A	N
ATOM	2667	C	ARG	A	190	-34.642	22.304	-1.288	1.00	56.61	A	C
ATOM	2668	O	ARG	A	190	-35.744	22.826	-1.184	1.00	56.87	A	O
ATOM	2670	N	ARG	A	191	-34.227	21.310	-0.507	1.00	55.75	A	N
ATOM	2671	CA	ARG	A	191	-34.994	20.734	0.578	1.00	56.83	A	C
ATOM	2673	CB	ARG	A	191	-35.766	19.509	0.113	1.00	60.20	A	C
ATOM	2676	CG	ARG	A	191	-37.079	19.789	-0.552	1.00	68.48	A	C
ATOM	2679	CD	ARG	A	191	-37.382	18.668	-1.520	1.00	74.41	A	C
ATOM	2682	NE	ARG	A	191	-38.771	18.636	-1.965	1.00	80.80	A	N
ATOM	2684	CZ	ARG	A	191	-39.217	17.885	-2.976	1.00	85.30	A	C
ATOM	2685	NH1	ARG	A	191	-38.384	17.098	-3.662	1.00	85.72	A	N
ATOM	2688	NH2	ARG	A	191	-40.506	17.920	-3.311	1.00	84.71	A	N
ATOM	2691	C	ARG	A	191	-33.979	20.280	1.600	1.00	50.61	A	C
ATOM	2692	O	ARG	A	191	-33.175	19.402	1.307	1.00	52.86	A	O
ATOM	2694	N	ASP	A	192	-34.005	20.835	2.804	1.00	44.93	A	N
ATOM	2695	CA	ASP	A	192	-32.893	20.603	3.691	1.00	44.37	A	C
ATOM	2697	CB	ASP	A	192	-31.683	21.399	3.140	1.00	43.38	A	C
ATOM	2700	CG	ASP	A	192	-30.338	20.807	3.540	1.00	39.39	A	C
ATOM	2701	OD1	ASP	A	192	-30.299	19.820	4.328	1.00	34.22	A	O
ATOM	2702	OD2	ASP	A	192	-29.319	21.365	3.073	1.00	33.45	A	O
ATOM	2703	C	ASP	A	192	-33.162	20.964	5.152	1.00	40.62	A	C
ATOM	2704	O	ASP	A	192	-34.109	21.666	5.476	1.00	37.59	A	O
ATOM	2706	N	SER	A	193	-32.319	20.402	6.006	1.00	41.21	A	N

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ATOM	2707	CA	SER	A	193	-32.040	20.884	7.342	1.00	43.42	A	C
ATOM	2709	CB	SER	A	193	-31.223	19.850	8.110	1.00	43.78	A	C
ATOM	2712	OG	SER	A	193	-31.951	19.405	9.206	1.00	48.79	A	O
ATOM	2714	C	SER	A	193	-31.212	22.152	7.219	1.00	47.18	A	C
ATOM	2715	O	SER	A	193	-30.488	22.351	6.246	1.00	47.31	A	O
ATOM	2717	N	CYS	A	194	-31.274	22.991	8.232	1.00	52.15	A	N
ATOM	2718	CA	CYS	A	194	-30.808	24.336	8.069	1.00	54.60	A	C
ATOM	2720	CB	CYS	A	194	-31.982	25.123	7.489	1.00	60.78	A	C
ATOM	2723	SG	CYS	A	194	-31.641	26.188	6.127	1.00	70.11	A	S
ATOM	2725	C	CYS	A	194	-30.359	24.902	9.405	1.00	53.53	A	C
ATOM	2726	O	CYS	A	194	-30.439	24.238	10.427	1.00	53.31	A	O
ATOM	2728	N	LYS	A	195	-29.886	26.134	9.385	1.00	54.56	A	N
ATOM	2729	CA	LYS	A	195	-29.495	26.839	10.606	1.00	52.11	A	C
ATOM	2731	CB	LYS	A	195	-28.934	28.220	10.231	1.00	54.40	A	C
ATOM	2734	CG	LYS	A	195	-28.067	28.886	11.293	1.00	59.22	A	C
ATOM	2737	CD	LYS	A	195	-26.883	29.631	10.646	1.00	64.38	A	C
ATOM	2740	CE	LYS	A	195	-25.600	28.761	10.519	1.00	70.51	A	C
ATOM	2743	NZ	LYS	A	195	-25.837	27.278	10.407	1.00	73.76	A	N
ATOM	2747	C	LYS	A	195	-30.684	26.959	11.575	1.00	46.04	A	C
ATOM	2748	O	LYS	A	195	-31.723	27.520	11.219	1.00	41.78	A	O
ATOM	2750	N	GLY	A	196	-30.514	26.415	12.783	1.00	41.54	A	N
ATOM	2751	CA	GLY	A	196	-31.577	26.343	13.799	1.00	37.71	A	C
ATOM	2754	C	GLY	A	196	-32.331	25.011	13.830	1.00	35.75	A	C
ATOM	2755	O	GLY	A	196	-33.190	24.806	14.678	1.00	34.33	A	O
ATOM	2757	N	ASP	A	197	-32.026	24.105	12.898	1.00	32.07	A	N
ATOM	2758	CA	ASP	A	197	-32.585	22.753	12.910	1.00	35.69	A	C
ATOM	2760	CB	ASP	A	197	-32.841	22.229	11.482	1.00	31.60	A	C
ATOM	2763	CG	ASP	A	197	-33.915	23.003	10.752	1.00	32.48	A	C
ATOM	2764	OD1	ASP	A	197	-34.882	23.449	11.393	1.00	31.77	A	O
ATOM	2765	OD2	ASP	A	197	-33.807	23.171	9.516	1.00	36.89	A	O
ATOM	2766	C	ASP	A	197	-31.660	21.774	13.645	1.00	31.88	A	C
ATOM	2767	O	ASP	A	197	-32.055	20.664	13.966	1.00	31.55	A	O
ATOM	2769	N	SER	A	198	-30.442	22.195	13.926	1.00	31.47	A	N
ATOM	2770	CA	SER	A	198	-29.480	21.368	14.654	1.00	34.60	A	C
ATOM	2772	CB	SER	A	198	-28.200	22.157	14.920	1.00	33.82	A	C
ATOM	2775	OG	SER	A	198	-27.555	22.415	13.705	1.00	30.12	A	O
ATOM	2777	C	SER	A	198	-30.043	20.860	15.973	1.00	34.61	A	C
ATOM	2778	O	SER	A	198	-30.775	21.556	16.648	1.00	35.71	A	O
ATOM	2780	N	GLY	A	199	-29.676	19.642	16.330	1.00	36.86	A	N
ATOM	2781	CA	GLY	A	199	-30.198	19.010	17.527	1.00	36.83	A	C
ATOM	2784	C	GLY	A	199	-31.520	18.292	17.327	1.00	34.76	A	C
ATOM	2785	O	GLY	A	199	-31.869	17.434	18.114	1.00	32.66	A	O
ATOM	2787	N	GLY	A	200	-32.244	18.649	16.267	1.00	36.94	A	N
ATOM	2788	CA	GLY	A	200	-33.531	18.056	15.955	1.00	34.99	A	C
ATOM	2791	C	GLY	A	200	-33.435	16.669	15.343	1.00	38.15	A	C
ATOM	2792	O	GLY	A	200	-32.341	16.208	14.967	1.00	38.12	A	O
ATOM	2794	N	PRO	A	201	-34.593	15.995	15.225	1.00	39.66	A	N
ATOM	2795	CA	PRO	A	201	-34.711	14.602	14.813	1.00	37.30	A	C
ATOM	2797	CB	PRO	A	201	-36.037	14.184	15.472	1.00	37.28	A	C
ATOM	2800	CG	PRO	A	201	-36.851	15.403	15.429	1.00	38.55	A	C
ATOM	2803	CD	PRO	A	201	-35.913	16.567	15.553	1.00	38.49	A	C
ATOM	2806	C	PRO	A	201	-34.786	14.341	13.319	1.00	33.30	A	C
ATOM	2807	O	PRO	A	201	-35.494	15.044	12.623	1.00	31.72	A	O
ATOM	2808	N	LEU	A	202	-34.037	13.337	12.862	1.00	32.10	A	N
ATOM	2809	CA	LEU	A	202	-34.246	12.659	11.574	1.00	35.20	A	C
ATOM	2811	CB	LEU	A	202	-32.935	12.502	10.794	1.00	36.98	A	C
ATOM	2814	CG	LEU	A	202	-33.094	11.712	9.476	1.00	34.98	A	C
ATOM	2816	CD1	LEU	A	202	-33.264	12.624	8.305	1.00	32.33	A	C
ATOM	2820	CD2	LEU	A	202	-31.944	10.749	9.233	1.00	36.97	A	C
ATOM	2824	C	LEU	A	202	-34.872	11.267	11.821	1.00	34.35	A	C
ATOM	2825	O	LEU	A	202	-34.243	10.359	12.345	1.00	31.53	A	O
ATOM	2827	N	VAL	A	203	-36.132	11.124	11.443	1.00	38.68	A	N
ATOM	2828	CA	VAL	A	203	-36.957	9.985	11.857	1.00	37.25	A	C
ATOM	2830	CB	VAL	A	203	-38.215	10.526	12.516	1.00	31.09	A	C
ATOM	2832	CG1	VAL	A	203	-39.066	9.410	13.186	1.00	28.65	A	C
ATOM	2836	CG2	VAL	A	203	-37.810	11.589	13.515	1.00	26.17	A	C
ATOM	2840	C	VAL	A	203	-37.291	9.116	10.644	1.00	38.35	A	C
ATOM	2841	O	VAL	A	203	-37.958	9.573	9.722	1.00	39.46	A	O

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ATOM	2843	N	CYS	A	204	-36.781	7.888	10.621	1.00	41.41	A N
ATOM	2844	CA	CYS	A	204	-37.033	6.970	9.499	1.00	45.49	A C
ATOM	2846	CB	CYS	A	204	-35.731	6.464	8.864	1.00	41.90	A C
ATOM	2849	SG	CYS	A	204	-34.428	7.666	8.615	1.00	38.41	A S
ATOM	2851	C	CYS	A	204	-37.862	5.761	9.951	1.00	48.67	A C
ATOM	2852	O	CYS	A	204	-37.390	4.926	10.729	1.00	48.60	A O
ATOM	2854	N	GLY	A	205	-39.085	5.664	9.438	1.00	50.07	A N
ATOM	2855	CA	GLY	A	205	-39.995	4.579	9.792	1.00	51.61	A C
ATOM	2858	C	GLY	A	205	-40.463	4.645	11.237	1.00	53.34	A C
ATOM	2859	O	GLY	A	205	-40.537	3.625	11.923	1.00	51.94	A O
ATOM	2861	N	GLY	A	206	-40.769	5.859	11.696	1.00	53.41	A N
ATOM	2862	CA	GLY	A	206	-41.195	6.112	13.073	1.00	51.89	A C
ATOM	2865	C	GLY	A	206	-40.139	6.091	14.179	1.00	50.95	A C
ATOM	2866	O	GLY	A	206	-40.430	6.463	15.312	1.00	48.96	A O
ATOM	2868	N	VAL	A	207	-38.924	5.645	13.863	1.00	50.42	A N
ATOM	2869	CA	VAL	A	207	-37.830	5.585	14.831	1.00	48.00	A C
ATOM	2871	CB	VAL	A	207	-37.115	4.230	14.746	1.00	49.45	A C
ATOM	2873	CG1	VAL	A	207	-35.983	4.147	15.770	1.00	48.25	A C
ATOM	2877	CG2	VAL	A	207	-38.112	3.090	14.931	1.00	48.40	A C
ATOM	2881	C	VAL	A	207	-36.802	6.705	14.567	1.00	45.98	A C
ATOM	2882	O	VAL	A	207	-36.492	7.003	13.417	1.00	43.93	A O
ATOM	2884	N	LEU	A	208	-36.286	7.312	15.639	1.00	42.48	A N
ATOM	2885	CA	LEU	A	208	-35.193	8.282	15.543	1.00	41.09	A C
ATOM	2887	CB	LEU	A	208	-34.898	8.940	16.903	1.00	36.84	A C
ATOM	2890	CG	LEU	A	208	-33.789	10.013	16.885	1.00	39.04	A C
ATOM	2892	CD1	LEU	A	208	-34.271	11.330	16.198	1.00	36.60	A C
ATOM	2896	CD2	LEU	A	208	-33.234	10.272	18.295	1.00	34.74	A C
ATOM	2900	C	LEU	A	208	-33.931	7.591	15.033	1.00	44.06	A C
ATOM	2901	O	LEU	A	208	-33.485	6.595	15.612	1.00	46.66	A O
ATOM	2903	N	GLU	A	209	-33.375	8.102	13.935	1.00	41.53	A N
ATOM	2904	CA	GLU	A	209	-32.152	7.548	13.363	1.00	39.44	A C
ATOM	2906	CB	GLU	A	209	-32.346	7.198	11.881	1.00	38.56	A C
ATOM	2909	CG	GLU	A	209	-33.163	5.946	11.586	1.00	42.84	A C
ATOM	2912	CD	GLU	A	209	-32.522	4.631	12.019	1.00	44.34	A C
ATOM	2913	OE1	GLU	A	209	-31.282	4.574	12.145	1.00	48.36	A O
ATOM	2914	OE2	GLU	A	209	-33.271	3.633	12.210	1.00	44.49	A O
ATOM	2915	C	GLU	A	209	-30.976	8.528	13.482	1.00	39.58	A C
ATOM	2916	O	GLU	A	209	-29.826	8.114	13.608	1.00	37.68	A O
ATOM	2918	N	GLY	A	210	-31.276	9.821	13.405	1.00	38.87	A N
ATOM	2919	CA	GLY	A	210	-30.271	10.845	13.323	1.00	38.51	A C
ATOM	2922	C	GLY	A	210	-30.618	12.119	14.066	1.00	35.24	A C
ATOM	2923	O	GLY	A	210	-31.762	12.411	14.277	1.00	35.69	A O
ATOM	2925	N	VAL	A	211	-29.591	12.850	14.485	1.00	36.83	A N
ATOM	2926	CA	VAL	A	211	-29.738	14.167	15.092	1.00	35.93	A C
ATOM	2928	CB	VAL	A	211	-29.159	14.166	16.528	1.00	30.98	A C
ATOM	2930	CG1	VAL	A	211	-29.313	15.515	17.230	1.00	34.41	A C
ATOM	2934	CG2	VAL	A	211	-29.865	13.065	17.341	1.00	29.17	A C
ATOM	2938	C	VAL	A	211	-29.059	15.128	14.115	1.00	34.50	A C
ATOM	2939	O	VAL	A	211	-27.938	14.872	13.659	1.00	30.56	A O
ATOM	2941	N	VAL	A	212	-29.796	16.158	13.694	1.00	36.07	A N
ATOM	2942	CA	VAL	A	212	-29.264	17.107	12.744	1.00	41.08	A C
ATOM	2944	CB	VAL	A	212	-30.205	18.312	12.440	1.00	35.30	A C
ATOM	2946	CG1	VAL	A	212	-29.568	19.216	11.399	1.00	31.10	A C
ATOM	2950	CG2	VAL	A	212	-31.548	17.872	11.957	1.00	33.45	A C
ATOM	2954	C	VAL	A	212	-27.978	17.639	13.353	1.00	46.31	A C
ATOM	2955	O	VAL	A	212	-27.971	18.184	14.467	1.00	43.56	A O
ATOM	2957	N	THR	A	213	-26.872	17.432	12.659	1.00	55.28	A N
ATOM	2958	CA	THR	A	213	-25.604	17.950	13.157	1.00	61.80	A C
ATOM	2960	CB	THR	A	213	-24.357	17.104	12.720	1.00	66.03	A C
ATOM	2962	OG1	THR	A	213	-23.198	17.571	13.424	1.00	68.49	A O
ATOM	2964	CG2	THR	A	213	-24.111	17.170	11.235	1.00	67.10	A C
ATOM	2968	C	THR	A	213	-25.603	19.416	12.750	1.00	68.25	A C
ATOM	2969	O	THR	A	213	-26.278	20.210	13.374	1.00	73.71	A O
ATOM	2971	N	SER	A	214	-24.865	19.775	11.718	1.00	72.25	A N
ATOM	2972	CA	SER	A	214	-24.910	21.101	11.074	1.00	76.36	A C
ATOM	2974	CB	SER	A	214	-26.159	21.951	11.364	1.00	77.22	A C
ATOM	2977	OG	SER	A	214	-26.521	22.704	10.204	1.00	76.55	A O
ATOM	2979	C	SER	A	214	-23.541	21.788	11.288	1.00	80.23	A C

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ATOM	2980	O	SER	A	214	-22.495	21.111	11.171	1.00	82.33	A	O
ATOM	2982	N	GLY	A	215	-23.532	23.083	11.604	1.00	77.85	A	N
ATOM	2983	CA	GLY	A	215	-22.313	23.871	11.585	1.00	76.95	A	C
ATOM	2986	C	GLY	A	215	-22.575	25.050	10.689	1.00	74.98	A	C
ATOM	2987	O	GLY	A	215	-23.632	25.666	10.767	1.00	77.19	A	O
ATOM	2989	N	SER	A	216	-21.625	25.358	9.823	1.00	72.84	A	N
ATOM	2990	CA	SER	A	216	-21.774	26.485	8.932	1.00	70.60	A	C
ATOM	2992	CB	SER	A	216	-20.643	27.462	9.189	1.00	72.77	A	C
ATOM	2995	OG	SER	A	216	-20.768	27.955	10.513	1.00	73.33	A	O
ATOM	2997	C	SER	A	216	-21.851	26.007	7.481	1.00	68.64	A	C
ATOM	2998	O	SER	A	216	-21.386	26.678	6.556	1.00	69.42	A	O
ATOM	3000	N	ARG	A	217	-22.468	24.839	7.315	1.00	65.04	A	N
ATOM	3001	CA	ARG	A	217	-22.796	24.281	6.011	1.00	63.03	A	C
ATOM	3003	CB	ARG	A	217	-23.265	22.835	6.176	1.00	60.33	A	C
ATOM	3006	CG	ARG	A	217	-23.578	22.123	4.875	1.00	58.26	A	C
ATOM	3009	CD	ARG	A	217	-24.149	20.754	5.154	1.00	56.30	A	C
ATOM	3012	NE	ARG	A	217	-25.409	20.830	5.895	1.00	48.69	A	N
ATOM	3014	CZ	ARG	A	217	-26.602	20.992	5.344	1.00	47.40	A	C
ATOM	3015	NH1	ARG	A	217	-26.741	21.090	4.029	1.00	48.72	A	N
ATOM	3018	NH2	ARG	A	217	-27.668	21.058	6.111	1.00	51.24	A	N
ATOM	3021	C	ARG	A	217	-23.923	25.080	5.380	1.00	60.55	A	C
ATOM	3022	O	ARG	A	217	-24.923	25.370	6.034	1.00	55.93	A	O
ATOM	3024	N	VAL	A	218	-23.762	25.420	4.107	1.00	61.08	A	N
ATOM	3025	CA	VAL	A	218	-24.795	26.129	3.360	1.00	59.99	A	C
ATOM	3027	CB	VAL	A	218	-24.305	26.522	1.937	1.00	60.01	A	C
ATOM	3029	CG1	VAL	A	218	-24.019	25.275	1.078	1.00	58.46	A	C
ATOM	3033	CG2	VAL	A	218	-25.326	27.448	1.243	1.00	62.88	A	C
ATOM	3037	C	VAL	A	218	-26.053	25.267	3.246	1.00	59.59	A	C
ATOM	3038	O	VAL	A	218	-25.961	24.042	3.159	1.00	60.26	A	O
ATOM	3040	N	CYS	A	219	-27.216	25.917	3.228	1.00	54.32	A	N
ATOM	3041	CA	CYS	A	219	-28.502	25.231	3.218	1.00	53.49	A	C
ATOM	3043	CB	CYS	A	219	-29.517	26.011	4.074	1.00	56.74	A	C
ATOM	3046	SG	CYS	A	219	-30.969	25.078	4.575	1.00	59.89	A	S
ATOM	3048	C	CYS	A	219	-29.072	25.063	1.806	1.00	49.47	A	C
ATOM	3049	O	CYS	A	219	-28.979	25.958	0.991	1.00	48.44	A	O
ATOM	3051	N	GLY	A	220	-29.667	23.911	1.531	1.00	44.95	A	N
ATOM	3052	CA	GLY	A	220	-30.422	23.705	0.313	1.00	47.94	A	C
ATOM	3055	C	GLY	A	220	-29.632	23.594	-0.981	1.00	48.48	A	C
ATOM	3056	O	GLY	A	220	-30.206	23.747	-2.064	1.00	47.22	A	O
ATOM	3058	N	ASN	A	221	-28.332	23.330	-0.874	1.00	49.31	A	N
ATOM	3059	CA	ASN	A	221	-27.482	23.155	-2.038	1.00	49.62	A	C
ATOM	3061	CB	ASN	A	221	-26.178	23.946	-1.898	1.00	52.96	A	C
ATOM	3064	CG	ASN	A	221	-25.343	23.950	-3.189	1.00	53.85	A	C
ATOM	3065	OD1	ASN	A	221	-25.696	23.300	-4.182	1.00	53.83	A	O
ATOM	3066	ND2	ASN	A	221	-24.224	24.681	-3.168	1.00	52.88	A	N
ATOM	3069	C	ASN	A	221	-27.211	21.680	-2.226	1.00	49.03	A	C
ATOM	3070	O	ASN	A	221	-26.660	21.026	-1.337	1.00	49.09	A	O
ATOM	3072	N	ARG	A	222	-27.597	21.161	-3.389	1.00	51.03	A	N
ATOM	3073	CA	ARG	A	222	-27.375	19.748	-3.739	1.00	49.73	A	C
ATOM	3075	CB	ARG	A	222	-27.799	19.471	-5.183	1.00	54.93	A	C
ATOM	3078	CG	ARG	A	222	-26.844	20.005	-6.260	1.00	55.59	A	C
ATOM	3081	CD	ARG	A	222	-27.209	19.455	-7.625	1.00	57.22	A	C
ATOM	3084	NE	ARG	A	222	-26.570	20.200	-8.709	1.00	61.33	A	N
ATOM	3086	CZ	ARG	A	222	-25.264	20.171	-8.995	1.00	64.40	A	C
ATOM	3087	NH1	ARG	A	222	-24.410	19.445	-8.279	1.00	63.49	A	N
ATOM	3090	NH2	ARG	A	222	-24.799	20.884	-10.007	1.00	65.72	A	N
ATOM	3093	C	ARG	A	222	-25.930	19.263	-3.572	1.00	44.96	A	C
ATOM	3094	O	ARG	A	222	-25.704	18.078	-3.359	1.00	41.28	A	O
ATOM	3096	N	LYS	A	223	-24.974	20.183	-3.702	1.00	41.97	A	N
ATOM	3097	CA	LYS	A	223	-23.552	19.908	-3.541	1.00	41.05	A	C
ATOM	3099	CB	LYS	A	223	-22.706	21.045	-4.164	1.00	42.51	A	C
ATOM	3102	CG	LYS	A	223	-22.873	21.289	-5.679	1.00	38.48	A	C
ATOM	3105	CD	LYS	A	223	-21.812	22.279	-6.187	1.00	38.52	A	C
ATOM	3108	CE	LYS	A	223	-21.817	22.392	-7.729	1.00	39.66	A	C
ATOM	3111	NZ	LYS	A	223	-20.778	23.351	-8.239	1.00	31.27	A	N
ATOM	3115	C	LYS	A	223	-23.090	19.773	-2.090	1.00	41.57	A	C
ATOM	3116	O	LYS	A	223	-21.961	19.352	-1.837	1.00	42.59	A	O
ATOM	3118	N	LYS	A	224	-23.914	20.171	-1.130	1.00	39.53	A	N

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ATOM	3119	CA	LYS	A	224	-23.594	19.923	0.279	1.00	38.37	A	C
ATOM	3121	CB	LYS	A	224	-23.275	21.230	0.998	1.00	39.87	A	C
ATOM	3124	CG	LYS	A	224	-22.019	21.954	0.501	1.00	42.15	A	C
ATOM	3127	CD	LYS	A	224	-20.746	21.203	0.889	1.00	47.01	A	C
ATOM	3130	CE	LYS	A	224	-19.520	21.751	0.188	1.00	44.59	A	C
ATOM	3133	NZ	LYS	A	224	-19.520	21.332	-1.218	1.00	49.17	A	N
ATOM	3137	C	LYS	A	224	-24.733	19.182	1.001	1.00	36.72	A	C
ATOM	3138	O	LYS	A	224	-25.578	19.800	1.619	1.00	36.89	A	O
ATOM	3140	N	PRO	A	225	-24.756	17.842	0.919	1.00	35.57	A	N
ATOM	3141	CA	PRO	A	225	-25.828	17.053	1.562	1.00	36.68	A	C
ATOM	3143	CB	PRO	A	225	-25.419	15.606	1.273	1.00	34.34	A	C
ATOM	3146	CG	PRO	A	225	-24.568	15.691	0.053	1.00	35.92	A	C
ATOM	3149	CD	PRO	A	225	-23.791	16.974	0.218	1.00	34.59	A	C
ATOM	3152	C	PRO	A	225	-25.929	17.288	3.070	1.00	37.33	A	C
ATOM	3153	O	PRO	A	225	-24.963	17.701	3.703	1.00	37.24	A	O
ATOM	3154	N	GLY	A	226	-27.104	17.034	3.638	1.00	37.58	A	N
ATOM	3155	CA	GLY	A	226	-27.316	17.258	5.072	1.00	35.74	A	C
ATOM	3158	C	GLY	A	226	-26.542	16.209	5.844	1.00	31.37	A	C
ATOM	3159	O	GLY	A	226	-26.355	15.108	5.348	1.00	29.50	A	O
ATOM	3161	N	ILE	A	227	-26.080	16.563	7.040	1.00	34.03	A	N
ATOM	3162	CA	ILE	A	227	-25.290	15.656	7.898	1.00	34.66	A	C
ATOM	3164	CB	ILE	A	227	-23.858	16.182	8.179	1.00	31.38	A	C
ATOM	3166	CG1	ILE	A	227	-23.041	16.309	6.882	1.00	36.53	A	C
ATOM	3169	CD1	ILE	A	227	-21.734	17.106	7.024	1.00	34.20	A	C
ATOM	3173	CG2	ILE	A	227	-23.120	15.230	9.096	1.00	30.98	A	C
ATOM	3177	C	ILE	A	227	-26.039	15.419	9.217	1.00	31.71	A	C
ATOM	3178	O	ILE	A	227	-26.524	16.360	9.845	1.00	27.85	A	O
ATOM	3180	N	TYR	A	228	-26.154	14.148	9.604	1.00	32.75	A	N
ATOM	3181	CA	TYR	A	228	-26.949	13.742	10.776	1.00	33.62	A	C
ATOM	3183	CB	TYR	A	228	-28.261	13.099	10.324	1.00	28.33	A	C
ATOM	3186	CG	TYR	A	228	-29.019	13.985	9.382	1.00	26.44	A	C
ATOM	3187	CD1	TYR	A	228	-29.969	14.855	9.858	1.00	27.41	A	C
ATOM	3189	CE1	TYR	A	228	-30.666	15.681	9.009	1.00	29.99	A	C
ATOM	3191	CZ	TYR	A	228	-30.396	15.669	7.649	1.00	27.71	A	C
ATOM	3192	OH	TYR	A	228	-31.105	16.531	6.820	1.00	30.43	A	O
ATOM	3194	CE2	TYR	A	228	-29.457	14.812	7.139	1.00	24.44	A	C
ATOM	3196	CD2	TYR	A	228	-28.763	13.966	8.010	1.00	29.02	A	C
ATOM	3198	C	TYR	A	228	-26.151	12.756	11.592	1.00	31.85	A	C
ATOM	3199	O	TYR	A	228	-25.534	11.874	11.028	1.00	32.20	A	O
ATOM	3201	N	THR	A	229	-26.122	12.914	12.908	1.00	35.77	A	N
ATOM	3202	CA	THR	A	229	-25.367	11.979	13.751	1.00	36.18	A	C
ATOM	3204	CB	THR	A	229	-24.896	12.608	15.088	1.00	33.69	A	C
ATOM	3206	OG1	THR	A	229	-24.142	13.783	14.809	1.00	37.56	A	O
ATOM	3208	CG2	THR	A	229	-23.983	11.631	15.888	1.00	31.81	A	C
ATOM	3212	C	THR	A	229	-26.247	10.755	14.001	1.00	36.64	A	C
ATOM	3213	O	THR	A	229	-27.390	10.884	14.417	1.00	33.42	A	O
ATOM	3215	N	ARG	A	230	-25.690	9.576	13.739	1.00	38.08	A	N
ATOM	3216	CA	ARG	A	230	-26.407	8.307	13.868	1.00	38.54	A	C
ATOM	3218	CB	ARG	A	230	-25.671	7.194	13.090	1.00	39.30	A	C
ATOM	3221	CG	ARG	A	230	-25.571	7.462	11.610	1.00	38.36	A	C
ATOM	3224	CD	ARG	A	230	-24.893	6.366	10.827	1.00	42.84	A	C
ATOM	3227	NE	ARG	A	230	-25.570	5.089	11.009	1.00	47.76	A	N
ATOM	3229	CZ	ARG	A	230	-25.166	4.103	11.813	1.00	50.09	A	C
ATOM	3230	NH1	ARG	A	230	-24.053	4.215	12.533	1.00	50.28	A	N
ATOM	3233	NH2	ARG	A	230	-25.899	2.997	11.902	1.00	46.72	A	N
ATOM	3236	C	ARG	A	230	-26.533	7.907	15.318	1.00	38.45	A	C
ATOM	3237	O	ARG	A	230	-25.548	7.568	15.951	1.00	42.21	A	O
ATOM	3239	N	VAL	A	231	-27.748	7.921	15.850	1.00	42.31	A	N
ATOM	3240	CA	VAL	A	231	-27.961	7.597	17.261	1.00	39.18	A	C
ATOM	3242	CB	VAL	A	231	-29.419	7.801	17.703	1.00	37.87	A	C
ATOM	3244	CG1	VAL	A	231	-29.767	9.242	17.607	1.00	36.63	A	C
ATOM	3248	CG2	VAL	A	231	-30.410	6.912	16.889	1.00	35.10	A	C
ATOM	3252	C	VAL	A	231	-27.521	6.194	17.610	1.00	40.30	A	C
ATOM	3253	O	VAL	A	231	-27.029	5.970	18.704	1.00	44.42	A	O
ATOM	3255	N	ALA	A	232	-27.682	5.263	16.671	1.00	44.13	A	N
ATOM	3256	CA	ALA	A	232	-27.288	3.848	16.856	1.00	41.46	A	C
ATOM	3258	CB	ALA	A	232	-27.575	3.062	15.604	1.00	37.15	A	C
ATOM	3262	C	ALA	A	232	-25.829	3.668	17.239	1.00	41.45	A	C

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ATOM	3263	O	ALA	A	232	-25.487	2.771	18.026	1.00	42.52	A	O
ATOM	3265	N	SER	A	233	-24.985	4.514	16.652	1.00	41.76	A	N
ATOM	3266	CA	SER	A	233	-23.571	4.560	16.942	1.00	39.20	A	C
ATOM	3268	CB	SER	A	233	-22.888	5.626	16.072	1.00	39.85	A	C
ATOM	3271	OG	ASER	A	233	-22.493	5.089	14.827	0.70	42.98	A	O
ATOM	3272	OG	BSER	A	233	-22.500	5.086	14.824	0.30	41.27	A	O
ATOM	3275	C	SER	A	233	-23.280	4.863	18.395	1.00	39.20	A	C
ATOM	3276	O	SER	A	233	-22.242	4.462	18.888	1.00	39.30	A	O
ATOM	3278	N	TYR	A	234	-24.174	5.590	19.071	1.00	41.68	A	N
ATOM	3279	CA	TYR	A	234	-23.928	6.058	20.440	1.00	42.49	A	C
ATOM	3281	CB	TYR	A	234	-24.027	7.580	20.483	1.00	38.75	A	C
ATOM	3284	CG	TYR	A	234	-22.948	8.229	19.653	1.00	37.97	A	C
ATOM	3285	CD1	TYR	A	234	-21.762	8.632	20.226	1.00	35.58	A	C
ATOM	3287	CE1	TYR	A	234	-20.760	9.196	19.458	1.00	38.65	A	C
ATOM	3289	CZ	TYR	A	234	-20.937	9.343	18.112	1.00	35.16	A	C
ATOM	3290	OH	TYR	A	234	-19.961	9.930	17.365	1.00	37.63	A	O
ATOM	3292	CE2	TYR	A	234	-22.106	8.947	17.514	1.00	38.19	A	C
ATOM	3294	CD2	TYR	A	234	-23.104	8.393	18.278	1.00	37.30	A	C
ATOM	3296	C	TYR	A	234	-24.860	5.408	21.469	1.00	44.63	A	C
ATOM	3297	O	TYR	A	234	-25.100	5.958	22.554	1.00	41.33	A	O
ATOM	3299	N	ALA	A	235	-25.332	4.206	21.128	1.00	46.09	A	N
ATOM	3300	CA	ALA	A	235	-26.299	3.467	21.944	1.00	45.75	A	C
ATOM	3302	CB	ALA	A	235	-26.686	2.138	21.282	1.00	41.82	A	C
ATOM	3306	C	ALA	A	235	-25.826	3.247	23.370	1.00	46.58	A	C
ATOM	3307	O	ALA	A	235	-26.569	3.522	24.295	1.00	47.29	A	O
ATOM	3309	N	ALA	A	236	-24.596	2.781	23.549	1.00	47.60	A	N
ATOM	3310	CA	ALA	A	236	-24.039	2.544	24.890	1.00	50.24	A	C
ATOM	3312	CB	ALA	A	236	-22.669	1.834	24.792	1.00	53.25	A	C
ATOM	3316	C	ALA	A	236	-23.928	3.821	25.734	1.00	52.61	A	C
ATOM	3317	O	ALA	A	236	-24.230	3.798	26.935	1.00	58.24	A	O
ATOM	3319	N	TRP	A	237	-23.518	4.927	25.111	1.00	50.90	A	N
ATOM	3320	CA	TRP	A	237	-23.377	6.201	25.817	1.00	51.68	A	C
ATOM	3322	CB	TRP	A	237	-22.646	7.256	24.973	1.00	48.68	A	C
ATOM	3325	CG	TRP	A	237	-22.720	8.604	25.629	1.00	48.35	A	C
ATOM	3326	CD1	TRP	A	237	-22.084	8.991	26.777	1.00	47.65	A	C
ATOM	3328	NE1	TRP	A	237	-22.431	10.278	27.098	1.00	46.89	A	N
ATOM	3330	CE2	TRP	A	237	-23.302	10.755	26.154	1.00	47.30	A	C
ATOM	3331	CD2	TRP	A	237	-23.524	9.719	25.222	1.00	48.43	A	C
ATOM	3332	CE3	TRP	A	237	-24.401	9.952	24.148	1.00	47.93	A	C
ATOM	3334	CZ3	TRP	A	237	-25.025	11.198	24.046	1.00	45.85	A	C
ATOM	3336	CH2	TRP	A	237	-24.778	12.206	24.977	1.00	46.52	A	C
ATOM	3338	CZ2	TRP	A	237	-23.925	12.011	26.042	1.00	48.32	A	C
ATOM	3340	C	TRP	A	237	-24.720	6.770	26.268	1.00	53.93	A	C
ATOM	3341	O	TRP	A	237	-24.859	7.240	27.400	1.00	56.83	A	O
ATOM	3343	N	ILE	A	238	-25.703	6.746	25.378	1.00	52.57	A	N
ATOM	3344	CA	ILE	A	238	-27.044	7.233	25.723	1.00	53.70	A	C
ATOM	3346	CB	ILE	A	238	-28.006	7.237	24.497	1.00	50.89	A	C
ATOM	3348	CG1	ILE	A	238	-27.462	8.169	23.387	1.00	49.63	A	C
ATOM	3351	CD1	ILE	A	238	-28.198	8.064	22.057	1.00	46.38	A	C
ATOM	3355	CG2	ILE	A	238	-29.423	7.651	24.914	1.00	44.00	A	C
ATOM	3359	C	ILE	A	238	-27.641	6.398	26.871	1.00	56.57	A	C
ATOM	3360	O	ILE	A	238	-28.297	6.938	27.761	1.00	57.87	A	O
ATOM	3362	N	ASP	A	239	-27.399	5.088	26.854	1.00	58.74	A	N
ATOM	3363	CA	ASP	A	239	-27.866	4.203	27.939	1.00	57.43	A	C
ATOM	3365	CB	ASP	A	239	-27.583	2.722	27.643	1.00	54.42	A	C
ATOM	3368	CG	ASP	A	239	-28.531	2.128	26.598	1.00	49.99	A	C
ATOM	3369	OD1	ASP	A	239	-29.586	2.749	26.328	1.00	43.10	A	O
ATOM	3370	OD2	ASP	A	239	-28.213	1.038	26.046	1.00	42.96	A	O
ATOM	3371	C	ASP	A	239	-27.236	4.570	29.270	1.00	58.18	A	C
ATOM	3372	O	ASP	A	239	-27.939	4.619	30.275	1.00	59.46	A	O
ATOM	3374	N	SER	A	240	-25.928	4.840	29.275	1.00	58.65	A	N
ATOM	3375	CA	SER	A	240	-25.216	5.192	30.512	1.00	59.40	A	C
ATOM	3377	CB	SER	A	240	-23.707	5.339	30.249	1.00	61.80	A	C
ATOM	3380	OG	ASER	A	240	-23.402	6.541	29.555	0.60	62.77	A	O
ATOM	3381	OG	BSER	A	240	-23.406	6.539	29.552	0.40	62.28	A	O
ATOM	3384	C	SER	A	240	-25.767	6.460	31.189	1.00	60.44	A	C
ATOM	3385	O	SER	A	240	-25.845	6.529	32.411	1.00	63.16	A	O
ATOM	3387	N	VAL	A	241	-26.144	7.446	30.380	1.00	60.46	A	N

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ATOM	3388	CA	VAL	A	241	-26.651	8.740	30.852	1.00	59.39	A	C
ATOM	3390	CB	VAL	A	241	-26.525	9.796	29.727	1.00	56.72	A	C
ATOM	3392	CG1	VAL	A	241	-27.171	11.138	30.130	1.00	53.63	A	C
ATOM	3396	CG2	VAL	A	241	-25.065	9.952	29.335	1.00	47.46	A	C
ATOM	3400	C	VAL	A	241	-28.109	8.665	31.307	1.00	60.05	A	C
ATOM	3401	O	VAL	A	241	-28.490	9.284	32.296	1.00	61.32	A	O
ATOM	3403	N	LEU	A	242	-28.918	7.905	30.578	1.00	61.37	A	N
ATOM	3404	CA	LEU	A	242	-30.321	7.693	30.947	1.00	63.20	A	C
ATOM	3406	CB	LEU	A	242	-31.144	7.160	29.764	1.00	60.26	A	C
ATOM	3409	CG	LEU	A	242	-31.872	8.207	28.915	1.00	58.16	A	C
ATOM	3411	CD1	LEU	A	242	-30.956	9.364	28.562	1.00	57.28	A	C
ATOM	3415	CD2	LEU	A	242	-32.443	7.567	27.659	1.00	58.08	A	C
ATOM	3419	C	LEU	A	242	-30.480	6.760	32.148	1.00	67.42	A	C
ATOM	3420	O	LEU	A	242	-31.363	6.979	32.980	1.00	69.30	A	O
ATOM	3422	N	ALA	A	243	-29.631	5.729	32.233	1.00	68.87	A	N
ATOM	3423	CA	ALA	A	243	-29.675	4.752	33.331	1.00	68.18	A	C
ATOM	3425	CB	ALA	A	243	-28.502	3.776	33.218	1.00	68.91	A	C
ATOM	3429	C	ALA	A	243	-29.661	5.432	34.705	1.00	71.16	A	C
ATOM	3430	O	ALA	A	243	-30.444	5.091	35.608	1.00	69.67	A	O
ATOM	3432	OXT	ALA	A	243	-28.867	6.352	34.932	1.00	73.66	A	O
ATOM	3433	N	ASP	L	1	-22.592	16.088	-20.360	1.00	57.56	L	N
ATOM	3434	CA	ASP	L	1	-21.209	16.210	-19.846	1.00	45.88	L	C
ATOM	3436	CB	ASP	L	1	-20.262	15.267	-20.623	1.00	54.14	L	C
ATOM	3439	CG	ASP	L	1	-20.474	13.776	-20.290	1.00	57.25	L	C
ATOM	3440	OD1	ASP	L	1	-21.535	13.410	-19.738	1.00	58.37	L	O
ATOM	3441	OD2	ASP	L	1	-19.564	12.962	-20.593	1.00	56.76	L	O
ATOM	3442	C	ASP	L	1	-20.697	17.650	-19.951	1.00	44.64	L	C
ATOM	3443	O	ASP	L	1	-20.755	18.254	-21.010	1.00	48.78	L	O
ATOM	3447	N	ILE	L	2	-20.171	18.170	-18.842	1.00	43.07	L	N
ATOM	3448	CA	ILE	L	2	-19.539	19.495	-18.801	1.00	41.00	L	C
ATOM	3450	CB	ILE	L	2	-19.343	19.991	-17.367	1.00	39.37	L	C
ATOM	3452	CG1	ILE	L	2	-20.706	20.022	-16.643	1.00	39.23	L	C
ATOM	3455	CD1	ILE	L	2	-20.634	20.428	-15.185	1.00	36.61	L	C
ATOM	3459	CG2	ILE	L	2	-18.682	21.375	-17.379	1.00	38.53	L	C
ATOM	3463	C	ILE	L	2	-18.200	19.486	-19.542	1.00	42.94	L	C
ATOM	3464	O	ILE	L	2	-17.422	18.538	-19.441	1.00	46.44	L	O
ATOM	3466	N	GLN	L	3	-17.967	20.546	-20.308	1.00	46.56	L	N
ATOM	3467	CA	GLN	L	3	-16.784	20.698	-21.145	1.00	45.19	L	C
ATOM	3469	CB	GLN	L	3	-17.177	21.206	-22.539	1.00	51.70	L	C
ATOM	3472	CG	GLN	L	3	-18.171	20.305	-23.287	1.00	59.10	L	C
ATOM	3475	CD	GLN	L	3	-17.707	18.842	-23.371	1.00	67.82	L	C
ATOM	3476	OE1	GLN	L	3	-16.535	18.558	-23.660	1.00	71.54	L	O
ATOM	3477	NE2	GLN	L	3	-18.629	17.910	-23.110	1.00	68.81	L	N
ATOM	3480	C	GLN	L	3	-15.826	21.676	-20.486	1.00	42.02	L	C
ATOM	3481	O	GLN	L	3	-16.247	22.597	-19.792	1.00	41.16	L	O
ATOM	3483	N	VAL	L	4	-14.534	21.453	-20.684	1.00	40.93	L	N
ATOM	3484	CA	VAL	L	4	-13.507	22.347	-20.154	1.00	41.75	L	C
ATOM	3486	CB	VAL	L	4	-12.748	21.722	-18.991	1.00	39.04	L	C
ATOM	3488	CG1	VAL	L	4	-11.795	22.763	-18.372	1.00	44.23	L	C
ATOM	3492	CG2	VAL	L	4	-13.727	21.221	-17.968	1.00	42.02	L	C
ATOM	3496	C	VAL	L	4	-12.534	22.672	-21.282	1.00	39.98	L	C
ATOM	3497	O	VAL	L	4	-12.242	21.826	-22.113	1.00	40.20	L	O
ATOM	3499	N	THR	L	5	-12.056	23.899	-21.327	1.00	39.58	L	N
ATOM	3500	CA	THR	L	5	-11.073	24.291	-22.330	1.00	39.96	L	C
ATOM	3502	CB	THR	L	5	-11.609	25.438	-23.259	1.00	50.26	L	C
ATOM	3504	OG1	THR	L	5	-12.712	24.954	-24.042	1.00	56.19	L	O
ATOM	3506	CG2	THR	L	5	-10.505	25.977	-24.205	1.00	48.86	L	C
ATOM	3510	C	THR	L	5	-9.859	24.787	-21.555	1.00	34.14	L	C
ATOM	3511	O	THR	L	5	-9.957	25.801	-20.895	1.00	29.11	L	O
ATOM	3513	N	GLN	L	6	-8.752	24.040	-21.608	1.00	33.25	L	N
ATOM	3514	CA	GLN	L	6	-7.505	24.424	-20.938	1.00	33.93	L	C
ATOM	3516	CB	GLN	L	6	-6.764	23.186	-20.412	1.00	35.26	L	C
ATOM	3519	CG	GLN	L	6	-5.488	23.503	-19.626	1.00	32.60	L	C
ATOM	3522	CD	GLN	L	6	-5.083	22.410	-18.666	1.00	28.59	L	C
ATOM	3523	OE1	GLN	L	6	-5.807	21.451	-18.455	1.00	27.24	L	O
ATOM	3524	NE2	GLN	L	6	-3.926	22.567	-18.056	1.00	29.05	L	N
ATOM	3527	C	GLN	L	6	-6.590	25.182	-21.904	1.00	34.90	L	C
ATOM	3528	O	GLN	L	6	-6.553	24.875	-23.090	1.00	34.73	L	O

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ATOM	3530	N	SER	L	7	-5.854	26.158	-21.377	1.00	33.37	L	N
ATOM	3531	CA	SER	L	7	-4.909	26.932	-22.153	1.00	32.07	L	C
ATOM	3533	CB	SER	L	7	-5.587	28.101	-22.858	1.00	37.89	L	C
ATOM	3536	OG	SER	L	7	-4.607	28.957	-23.447	1.00	42.88	L	O
ATOM	3538	C	SER	L	7	-3.808	27.476	-21.262	1.00	31.47	L	C
ATOM	3539	O	SER	L	7	-4.044	27.790	-20.101	1.00	34.89	L	O
ATOM	3541	N	PRO	L	8	-2.591	27.601	-21.801	1.00	31.53	L	N
ATOM	3542	CA	PRO	L	8	-2.189	27.203	-23.160	1.00	33.48	L	C
ATOM	3544	CB	PRO	L	8	-0.902	28.030	-23.399	1.00	29.04	L	C
ATOM	3547	CG	PRO	L	8	-0.344	28.295	-22.054	1.00	28.39	L	C
ATOM	3550	CD	PRO	L	8	-1.475	28.186	-21.035	1.00	29.12	L	C
ATOM	3553	C	PRO	L	8	-1.921	25.707	-23.267	1.00	32.37	L	C
ATOM	3554	O	PRO	L	8	-1.996	24.987	-22.281	1.00	36.84	L	O
ATOM	3555	N	SER	L	9	-1.583	25.255	-24.460	1.00	35.49	L	N
ATOM	3556	CA	SER	L	9	-1.230	23.870	-24.703	1.00	33.20	L	C
ATOM	3558	CB	SER	L	9	-1.394	23.574	-26.197	1.00	33.39	L	C
ATOM	3561	OG	SER	L	9	-0.838	22.315	-26.515	1.00	44.21	L	O
ATOM	3563	C	SER	L	9	0.201	23.554	-24.214	1.00	31.41	L	C
ATOM	3564	O	SER	L	9	0.484	22.454	-23.736	1.00	29.89	L	O
ATOM	3566	N	SER	L	10	1.106	24.515	-24.335	1.00	34.17	L	N
ATOM	3567	CA	SER	L	10	2.430	24.387	-23.744	1.00	31.49	L	C
ATOM	3569	CB	SER	L	10	3.350	23.487	-24.589	1.00	39.84	L	C
ATOM	3572	OG	SER	L	10	3.429	23.960	-25.914	1.00	40.04	L	O
ATOM	3574	C	SER	L	10	3.040	25.740	-23.593	1.00	34.42	L	C
ATOM	3575	O	SER	L	10	2.610	26.695	-24.214	1.00	38.55	L	O
ATOM	3577	N	LEU	L	11	4.035	25.812	-22.727	1.00	37.17	L	N
ATOM	3578	CA	LEU	L	11	4.730	27.058	-22.437	1.00	34.61	L	C
ATOM	3580	CB	LEU	L	11	3.926	27.928	-21.450	1.00	34.95	L	C
ATOM	3583	CG	LEU	L	11	3.748	27.465	-19.994	1.00	36.48	L	C
ATOM	3585	CD1	LEU	L	11	5.023	27.683	-19.177	1.00	29.27	L	C
ATOM	3589	CD2	LEU	L	11	2.570	28.188	-19.324	1.00	35.14	L	C
ATOM	3593	C	LEU	L	11	6.091	26.752	-21.851	1.00	33.86	L	C
ATOM	3594	O	LEU	L	11	6.323	25.678	-21.240	1.00	29.81	L	O
ATOM	3596	N	SER	L	12	6.969	27.736	-22.010	1.00	36.77	L	N
ATOM	3597	CA	SER	L	12	8.336	27.653	-21.544	1.00	37.94	L	C
ATOM	3599	CB	SER	L	12	9.282	27.505	-22.739	1.00	42.27	L	C
ATOM	3602	OG	SER	L	12	10.544	27.050	-22.310	1.00	47.65	L	O
ATOM	3604	C	SER	L	12	8.627	28.922	-20.765	1.00	36.43	L	C
ATOM	3605	O	SER	L	12	8.244	30.000	-21.195	1.00	38.70	L	O
ATOM	3607	N	ALA	L	13	9.265	28.782	-19.606	1.00	35.68	L	N
ATOM	3608	CA	ALA	L	13	9.603	29.916	-18.764	1.00	35.42	L	C
ATOM	3610	CB	ALA	L	13	8.422	30.254	-17.872	1.00	37.92	L	C
ATOM	3614	C	ALA	L	13	10.835	29.627	-17.923	1.00	36.26	L	C
ATOM	3615	O	ALA	L	13	11.260	28.483	-17.811	1.00	40.43	L	O
ATOM	3617	N	SER	L	14	11.385	30.667	-17.300	1.00	38.14	L	N
ATOM	3618	CA	SER	L	14	12.621	30.565	-16.529	1.00	37.65	L	C
ATOM	3620	CB	SER	L	14	13.439	31.842	-16.700	1.00	38.52	L	C
ATOM	3623	OG	SER	L	14	14.026	31.909	-17.985	1.00	40.88	L	O
ATOM	3625	C	SER	L	14	12.386	30.318	-15.037	1.00	38.57	L	C
ATOM	3626	O	SER	L	14	11.336	30.665	-14.486	1.00	36.87	L	O
ATOM	3628	N	VAL	L	15	13.384	29.722	-14.385	1.00	37.78	L	N
ATOM	3629	CA	VAL	L	15	13.362	29.538	-12.945	1.00	37.46	L	C
ATOM	3631	CB	VAL	L	15	14.694	28.923	-12.456	1.00	40.00	L	C
ATOM	3633	CG1	VAL	L	15	14.937	29.191	-10.965	1.00	37.02	L	C
ATOM	3637	CG2	VAL	L	15	14.716	27.427	-12.780	1.00	35.60	L	C
ATOM	3641	C	VAL	L	15	13.114	30.895	-12.298	1.00	38.64	L	C
ATOM	3642	O	VAL	L	15	13.811	31.868	-12.582	1.00	41.97	L	O
ATOM	3644	N	GLY	L	16	12.097	30.963	-11.458	1.00	39.96	L	N
ATOM	3645	CA	GLY	L	16	11.749	32.207	-10.773	1.00	39.00	L	C
ATOM	3648	C	GLY	L	16	10.553	32.932	-11.362	1.00	37.74	L	C
ATOM	3649	O	GLY	L	16	9.971	33.787	-10.707	1.00	40.10	L	O
ATOM	3651	N	ASP	L	17	10.190	32.589	-12.598	1.00	40.74	L	N
ATOM	3652	CA	ASP	L	17	9.059	33.206	-13.299	1.00	40.30	L	C
ATOM	3654	CB	ASP	L	17	9.064	32.809	-14.784	1.00	37.61	L	C
ATOM	3657	CG	ASP	L	17	10.136	33.520	-15.601	1.00	43.36	L	C
ATOM	3658	OD1	ASP	L	17	10.818	34.426	-15.066	1.00	42.18	L	O
ATOM	3659	OD2	ASP	L	17	10.280	33.163	-16.806	1.00	44.96	L	O
ATOM	3660	C	ASP	L	17	7.699	32.779	-12.732	1.00	44.02	L	C

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ATOM	3661	O	ASP	L	17	7.582	31.793	-11.998	1.00	43.56	L	O
ATOM	3663	N	ARG	L	18	6.670	33.532	-13.113	1.00	40.48	L	N
ATOM	3664	CA	ARG	L	18	5.316	33.210	-12.776	1.00	39.14	L	C
ATOM	3666	CB	ARG	L	18	4.525	34.466	-12.421	1.00	38.17	L	C
ATOM	3669	CG	ARG	L	18	3.037	34.192	-12.143	1.00	43.04	L	C
ATOM	3672	CD	ARG	L	18	2.311	35.404	-11.563	1.00	44.99	L	C
ATOM	3675	NE	ARG	L	18	2.983	35.941	-10.375	1.00	47.48	L	N
ATOM	3677	CZ	ARG	L	18	2.575	37.019	-9.716	1.00	49.83	L	C
ATOM	3678	NH1	ARG	L	18	1.490	37.680	-10.125	1.00	50.58	L	N
ATOM	3681	NH2	ARG	L	18	3.252	37.444	-8.652	1.00	47.68	L	N
ATOM	3684	C	ARG	L	18	4.646	32.538	-13.964	1.00	42.17	L	C
ATOM	3685	O	ARG	L	18	4.630	33.097	-15.066	1.00	43.32	L	O
ATOM	3687	N	VAL	L	19	4.058	31.364	-13.712	1.00	42.08	L	N
ATOM	3688	CA	VAL	L	19	3.330	30.599	-14.719	1.00	37.74	L	C
ATOM	3690	CB	VAL	L	19	3.759	29.113	-14.700	1.00	36.98	L	C
ATOM	3692	CG1	VAL	L	19	2.902	28.288	-15.642	1.00	33.86	L	C
ATOM	3696	CG2	VAL	L	19	5.223	29.010	-15.042	1.00	34.01	L	C
ATOM	3700	C	VAL	L	19	1.842	30.691	-14.475	1.00	37.21	L	C
ATOM	3701	O	VAL	L	19	1.383	30.518	-13.355	1.00	43.02	L	O
ATOM	3703	N	THR	L	20	1.091	30.963	-15.540	1.00	37.92	L	N
ATOM	3704	CA	THR	L	20	-0.344	31.154	-15.467	1.00	36.43	L	C
ATOM	3706	CB	THR	L	20	-0.741	32.621	-15.683	1.00	37.95	L	C
ATOM	3708	OG1	THR	L	20	-0.106	33.432	-14.685	1.00	43.67	L	O
ATOM	3710	CG2	THR	L	20	-2.268	32.788	-15.540	1.00	36.16	L	C
ATOM	3714	C	THR	L	20	-1.040	30.281	-16.499	1.00	38.23	L	C
ATOM	3715	O	THR	L	20	-0.800	30.424	-17.698	1.00	38.80	L	O
ATOM	3717	N	ILE	L	21	-1.902	29.383	-16.012	1.00	36.71	L	N
ATOM	3718	CA	ILE	L	21	-2.605	28.389	-16.826	1.00	35.70	L	C
ATOM	3720	CB	ILE	L	21	-2.188	26.945	-16.407	1.00	36.28	L	C
ATOM	3722	CG1	ILE	L	21	-0.726	26.683	-16.743	1.00	38.72	L	C
ATOM	3725	CD1	ILE	L	21	-0.175	25.395	-16.108	1.00	44.91	L	C
ATOM	3729	CG2	ILE	L	21	-3.056	25.876	-17.097	1.00	38.52	L	C
ATOM	3733	C	ILE	L	21	-4.083	28.549	-16.543	1.00	33.24	L	C
ATOM	3734	O	ILE	L	21	-4.429	28.711	-15.382	1.00	32.42	L	O
ATOM	3736	N	THR	L	22	-4.941	28.530	-17.572	1.00	32.33	L	N
ATOM	3737	CA	THR	L	22	-6.361	28.754	-17.381	1.00	39.90	L	C
ATOM	3739	CB	THR	L	22	-6.839	30.055	-18.096	1.00	41.23	L	C
ATOM	3741	OG1	THR	L	22	-6.564	29.970	-19.499	1.00	44.62	L	O
ATOM	3743	CG2	THR	L	22	-6.157	31.258	-17.515	1.00	37.62	L	C
ATOM	3747	C	THR	L	22	-7.272	27.594	-17.848	1.00	40.85	L	C
ATOM	3748	O	THR	L	22	-6.965	26.883	-18.799	1.00	41.14	L	O
ATOM	3750	N	CYS	L	23	-8.410	27.431	-17.175	1.00	43.42	L	N
ATOM	3751	CA	CYS	L	23	-9.481	26.547	-17.648	1.00	42.68	L	C
ATOM	3753	CB	CYS	L	23	-9.571	25.251	-16.831	1.00	48.31	L	C
ATOM	3756	SG	CYS	L	23	-8.377	24.025	-17.418	1.00	59.32	L	S
ATOM	3758	C	CYS	L	23	-10.802	27.301	-17.622	1.00	39.36	L	C
ATOM	3759	O	CYS	L	23	-11.076	28.042	-16.680	1.00	39.09	L	O
ATOM	3761	N	ILE	L	24	-11.586	27.121	-18.683	1.00	39.78	L	N
ATOM	3762	CA	ILE	L	24	-12.894	27.748	-18.840	1.00	42.12	L	C
ATOM	3764	CB	ILE	L	24	-12.931	28.701	-20.044	1.00	42.07	L	C
ATOM	3766	CG1	ILE	L	24	-11.931	29.852	-19.844	1.00	44.53	L	C
ATOM	3769	CD1	ILE	L	24	-11.500	30.472	-21.128	1.00	46.85	L	C
ATOM	3773	CG2	ILE	L	24	-14.345	29.252	-20.246	1.00	39.80	L	C
ATOM	3777	C	ILE	L	24	-13.943	26.680	-19.071	1.00	43.42	L	C
ATOM	3778	O	ILE	L	24	-13.843	25.905	-20.032	1.00	41.92	L	O
ATOM	3780	N	THR	L	25	-14.954	26.642	-18.200	1.00	44.73	L	N
ATOM	3781	CA	THR	L	25	-15.986	25.602	-18.258	1.00	40.41	L	C
ATOM	3783	CB	THR	L	25	-16.429	25.165	-16.854	1.00	43.51	L	C
ATOM	3785	OG1	THR	L	25	-16.842	26.313	-16.090	1.00	46.66	L	O
ATOM	3787	CG2	THR	L	25	-15.281	24.449	-16.129	1.00	40.24	L	C
ATOM	3791	C	THR	L	25	-17.190	26.055	-19.071	1.00	36.98	L	C
ATOM	3792	O	THR	L	25	-17.424	27.248	-19.245	1.00	35.24	L	O
ATOM	3794	N	SER	L	26	-17.944	25.087	-19.590	1.00	41.47	L	N
ATOM	3795	CA	SER	L	26	-19.097	25.383	-20.442	1.00	43.97	L	C
ATOM	3797	CB	SER	L	26	-19.428	24.193	-21.350	1.00	44.55	L	C
ATOM	3800	OG	SER	L	26	-19.453	22.975	-20.620	1.00	48.76	L	O
ATOM	3802	C	SER	L	26	-20.335	25.821	-19.627	1.00	47.07	L	C
ATOM	3803	O	SER	L	26	-21.315	26.301	-20.208	1.00	49.17	L	O

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ATOM	3805	N	THR	L	27	-20.274	25.675	-18.296	1.00	47.68	L	N
ATOM	3806	CA	THR	L	27	-21.361	26.068	-17.396	1.00	45.58	L	C
ATOM	3808	CB	THR	L	27	-22.271	24.859	-17.048	1.00	53.79	L	C
ATOM	3810	OG1	THR	L	27	-22.655	24.180	-18.252	1.00	62.51	L	O
ATOM	3812	CG2	THR	L	27	-23.522	25.299	-16.298	1.00	52.78	L	C
ATOM	3816	C	THR	L	27	-20.774	26.600	-16.100	1.00	45.19	L	C
ATOM	3817	O	THR	L	27	-19.625	26.324	-15.774	1.00	48.40	L	O
ATOM	3819	N	ASP	L	28	-21.573	27.362	-15.366	1.00	47.89	L	N
ATOM	3820	CA	ASP	L	28	-21.197	27.803	-14.047	1.00	47.67	L	C
ATOM	3822	CB	ASP	L	28	-22.234	28.779	-13.488	1.00	48.98	L	C
ATOM	3825	CG	ASP	L	28	-21.759	29.452	-12.234	1.00	52.20	L	C
ATOM	3826	OD1	ASP	L	28	-21.576	30.682	-12.249	1.00	62.24	L	O
ATOM	3827	OD2	ASP	L	28	-21.521	28.749	-11.238	1.00	57.96	L	O
ATOM	3828	C	ASP	L	28	-21.064	26.570	-13.151	1.00	46.01	L	C
ATOM	3829	O	ASP	L	28	-21.991	25.781	-13.033	1.00	47.36	L	O
ATOM	3831	N	ILE	L	29	-19.898	26.442	-12.530	1.00	42.48	L	N
ATOM	3832	CA	ILE	L	29	-19.467	25.252	-11.801	1.00	42.20	L	C
ATOM	3834	CB	ILE	L	29	-18.288	24.659	-12.622	1.00	43.38	L	C
ATOM	3836	CG1	ILE	L	29	-18.856	23.657	-13.608	1.00	45.55	L	C
ATOM	3839	CD1	ILE	L	29	-17.888	23.211	-14.614	1.00	51.65	L	C
ATOM	3843	CG2	ILE	L	29	-17.167	24.099	-11.774	1.00	45.69	L	C
ATOM	3847	C	ILE	L	29	-19.082	25.631	-10.375	1.00	39.62	L	C
ATOM	3848	O	ILE	L	29	-18.412	24.880	-9.673	1.00	39.37	L	O
ATOM	3850	N	ASP	L	30	-19.534	26.809	-9.953	1.00	39.45	L	N
ATOM	3851	CA	ASP	L	30	-19.160	27.379	-8.657	1.00	41.59	L	C
ATOM	3853	CB	ASP	L	30	-19.957	26.701	-7.518	1.00	42.61	L	C
ATOM	3856	CG	ASP	L	30	-21.462	26.754	-7.749	1.00	43.50	L	C
ATOM	3857	OD1	ASP	L	30	-21.994	27.876	-7.928	1.00	48.50	L	O
ATOM	3858	OD2	ASP	L	30	-22.116	25.679	-7.775	1.00	46.86	L	O
ATOM	3859	C	ASP	L	30	-17.638	27.360	-8.439	1.00	40.32	L	C
ATOM	3860	O	ASP	L	30	-16.899	28.061	-9.133	1.00	41.74	L	O
ATOM	3862	N	ASP	L	31	-17.186	26.556	-7.486	1.00	43.55	L	N
ATOM	3863	CA	ASP	L	31	-15.829	26.562	-6.964	1.00	40.84	L	C
ATOM	3865	CB	ASP	L	31	-15.983	26.632	-5.434	1.00	48.06	L	C
ATOM	3868	CG	ASP	L	31	-15.072	27.626	-4.781	1.00	59.00	L	C
ATOM	3869	OD1	ASP	L	31	-14.134	28.127	-5.439	1.00	69.59	L	O
ATOM	3870	OD2	ASP	L	31	-15.305	27.909	-3.581	1.00	60.87	L	O
ATOM	3871	C	ASP	L	31	-15.127	25.231	-7.280	1.00	36.47	L	C
ATOM	3872	O	ASP	L	31	-14.001	24.989	-6.859	1.00	32.93	L	O
ATOM	3874	N	ASP	L	32	-15.821	24.360	-7.988	1.00	34.59	L	N
ATOM	3875	CA	ASP	L	32	-15.487	22.955	-8.025	1.00	38.68	L	C
ATOM	3877	CB	ASP	L	32	-16.795	22.143	-8.094	1.00	42.00	L	C
ATOM	3880	CG	ASP	L	32	-17.620	22.315	-6.841	1.00	42.45	L	C
ATOM	3881	OD1	ASP	L	32	-17.052	22.133	-5.748	1.00	38.19	L	O
ATOM	3882	OD2	ASP	L	32	-18.807	22.677	-6.934	1.00	49.29	L	O
ATOM	3883	C	ASP	L	32	-14.511	22.605	-9.161	1.00	37.40	L	C
ATOM	3884	O	ASP	L	32	-14.778	21.699	-9.979	1.00	35.32	L	O
ATOM	3886	N	MET	L	33	-13.383	23.322	-9.157	1.00	34.11	L	N
ATOM	3887	CA	MET	L	33	-12.293	23.097	-10.053	1.00	33.37	L	C
ATOM	3889	CB	MET	L	33	-11.921	24.402	-10.748	1.00	37.31	L	C
ATOM	3892	CG	MET	L	33	-10.847	24.290	-11.815	1.00	36.01	L	C
ATOM	3895	SD	MET	L	33	-11.288	23.157	-13.133	1.00	42.53	L	S
ATOM	3896	CE	MET	L	33	-12.617	24.023	-13.995	1.00	33.25	L	C
ATOM	3900	C	MET	L	33	-11.079	22.542	-9.276	1.00	35.49	L	C
ATOM	3901	O	MET	L	33	-10.786	22.976	-8.170	1.00	34.68	L	O
ATOM	3903	N	ASN	L	34	-10.383	21.580	-9.893	1.00	37.27	L	N
ATOM	3904	CA	ASN	L	34	-9.191	20.962	-9.327	1.00	34.76	L	C
ATOM	3906	CB	ASN	L	34	-9.408	19.476	-9.023	1.00	38.89	L	C
ATOM	3909	CG	ASN	L	34	-10.697	19.222	-8.307	1.00	36.18	L	C
ATOM	3910	OD1	ASN	L	34	-10.725	19.050	-7.079	1.00	38.80	L	O
ATOM	3911	ND2	ASN	L	34	-11.795	19.236	-9.061	1.00	40.53	L	N
ATOM	3914	C	ASN	L	34	-8.067	21.055	-10.317	1.00	31.86	L	C
ATOM	3915	O	ASN	L	34	-8.311	21.160	-11.521	1.00	33.02	L	O
ATOM	3917	N	TRP	L	35	-6.844	20.994	-9.799	1.00	30.55	L	N
ATOM	3918	CA	TRP	L	35	-5.654	20.996	-10.615	1.00	30.36	L	C
ATOM	3920	CB	TRP	L	35	-4.918	22.340	-10.490	1.00	35.36	L	C
ATOM	3923	CG	TRP	L	35	-5.705	23.475	-11.053	1.00	37.91	L	C
ATOM	3924	CD1	TRP	L	35	-6.598	24.281	-10.380	1.00	36.63	L	C

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ATOM	3926	NE1	TRP	L	35	-7.120	25.220	-11.235	1.00	34.78	L	N
ATOM	3928	CE2	TRP	L	35	-6.592	25.033	-12.487	1.00	36.78	L	C
ATOM	3929	CD2	TRP	L	35	-5.692	23.944	-12.412	1.00	40.85	L	C
ATOM	3930	CE3	TRP	L	35	-4.995	23.564	-13.564	1.00	39.55	L	C
ATOM	3932	CZ3	TRP	L	35	-5.219	24.270	-14.743	1.00	35.57	L	C
ATOM	3934	CH2	TRP	L	35	-6.135	25.337	-14.782	1.00	38.18	L	C
ATOM	3936	CZ2	TRP	L	35	-6.824	25.731	-13.673	1.00	36.85	L	C
ATOM	3938	C	TRP	L	35	-4.745	19.829	-10.228	1.00	30.20	L	C
ATOM	3939	O	TRP	L	35	-4.562	19.516	-9.031	1.00	28.74	L	O
ATOM	3941	N	TYR	L	36	-4.187	19.187	-11.253	1.00	34.39	L	N
ATOM	3942	CA	TYR	L	36	-3.289	18.039	-11.098	1.00	32.30	L	C
ATOM	3944	CB	TYR	L	36	-3.879	16.791	-11.750	1.00	31.28	L	C
ATOM	3947	CG	TYR	L	36	-5.057	16.148	-11.042	1.00	33.73	L	C
ATOM	3948	CD1	TYR	L	36	-4.890	15.009	-10.246	1.00	35.52	L	C
ATOM	3950	CE1	TYR	L	36	-5.989	14.408	-9.584	1.00	31.56	L	C
ATOM	3952	CZ	TYR	L	36	-7.248	14.946	-9.745	1.00	35.40	L	C
ATOM	3953	OH	TYR	L	36	-8.316	14.356	-9.129	1.00	33.56	L	O
ATOM	3955	CE2	TYR	L	36	-7.441	16.097	-10.516	1.00	34.23	L	C
ATOM	3957	CD2	TYR	L	36	-6.351	16.689	-11.154	1.00	37.76	L	C
ATOM	3959	C	TYR	L	36	-1.963	18.329	-11.783	1.00	34.21	L	C
ATOM	3960	O	TYR	L	36	-1.902	19.138	-12.726	1.00	33.60	L	O
ATOM	3962	N	GLN	L	37	-0.918	17.666	-11.284	1.00	32.97	L	N
ATOM	3963	CA	GLN	L	37	0.413	17.681	-11.838	1.00	35.58	L	C
ATOM	3965	CB	GLN	L	37	1.407	18.115	-10.758	1.00	35.59	L	C
ATOM	3968	CG	GLN	L	37	2.849	18.235	-11.201	1.00	35.46	L	C
ATOM	3971	CD	GLN	L	37	3.732	18.717	-10.081	1.00	38.66	L	C
ATOM	3972	OE1	GLN	L	37	3.723	18.126	-9.001	1.00	45.41	L	O
ATOM	3973	NE2	GLN	L	37	4.481	19.810	-10.311	1.00	32.32	L	N
ATOM	3976	C	GLN	L	37	0.765	16.262	-12.250	1.00	36.66	L	C
ATOM	3977	O	GLN	L	37	0.560	15.333	-11.474	1.00	36.15	L	O
ATOM	3979	N	GLN	L	38	1.295	16.083	-13.457	1.00	39.24	L	N
ATOM	3980	CA	GLN	L	38	1.865	14.782	-13.833	1.00	40.38	L	C
ATOM	3982	CB	GLN	L	38	0.968	14.037	-14.824	1.00	39.50	L	C
ATOM	3985	CG	GLN	L	38	1.452	12.636	-15.131	1.00	39.67	L	C
ATOM	3988	CD	GLN	L	38	0.467	11.834	-15.919	1.00	40.77	L	C
ATOM	3989	OE1	GLN	L	38	-0.187	12.357	-16.817	1.00	47.43	L	O
ATOM	3990	NE2	GLN	L	38	0.362	10.537	-15.609	1.00	39.83	L	N
ATOM	3993	C	GLN	L	38	3.270	14.936	-14.395	1.00	40.58	L	C
ATOM	3994	O	GLN	L	38	3.475	15.587	-15.416	1.00	41.61	L	O
ATOM	3996	N	LYS	L	39	4.238	14.334	-13.716	1.00	45.50	L	N
ATOM	3997	CA	LYS	L	39	5.620	14.337	-14.176	1.00	49.63	L	C
ATOM	3999	CB	LYS	L	39	6.586	14.373	-12.985	1.00	46.97	L	C
ATOM	4002	CG	LYS	L	39	6.413	15.646	-12.147	1.00	47.44	L	C
ATOM	4005	CD	LYS	L	39	7.365	15.721	-10.964	1.00	50.26	L	C
ATOM	4008	CE	LYS	L	39	6.790	16.591	-9.846	1.00	50.76	L	C
ATOM	4011	NZ	LYS	L	39	7.808	17.101	-8.866	1.00	50.65	L	N
ATOM	4015	C	LYS	L	39	5.834	13.138	-15.086	1.00	55.03	L	C
ATOM	4016	O	LYS	L	39	5.045	12.191	-15.040	1.00	56.18	L	O
ATOM	4018	N	PRO	L	40	6.862	13.200	-15.960	1.00	62.10	L	N
ATOM	4019	CA	PRO	L	40	7.178	12.181	-16.959	1.00	62.84	L	C
ATOM	4021	CB	PRO	L	40	8.717	12.174	-16.935	1.00	67.78	L	C
ATOM	4024	CG	PRO	L	40	9.099	13.618	-16.530	1.00	68.06	L	C
ATOM	4027	CD	PRO	L	40	7.828	14.314	-16.074	1.00	65.12	L	C
ATOM	4030	C	PRO	L	40	6.601	10.773	-16.730	1.00	64.80	L	C
ATOM	4031	O	PRO	L	40	5.681	10.362	-17.456	1.00	67.75	L	O
ATOM	4032	N	GLY	L	41	7.138	10.041	-15.754	1.00	60.58	L	N
ATOM	4033	CA	GLY	L	41	6.728	8.654	-15.514	1.00	61.09	L	C
ATOM	4036	C	GLY	L	41	6.087	8.459	-14.147	1.00	63.15	L	C
ATOM	4037	O	GLY	L	41	6.525	7.588	-13.368	1.00	62.69	L	O
ATOM	4039	N	LYS	L	42	5.062	9.266	-13.835	1.00	59.76	L	N
ATOM	4040	CA	LYS	L	42	4.415	9.193	-12.508	1.00	54.12	L	C
ATOM	4042	CB	LYS	L	42	4.995	10.203	-11.480	1.00	62.46	L	C
ATOM	4045	CG	LYS	L	42	6.084	11.162	-11.962	1.00	67.58	L	C
ATOM	4048	CD	LYS	L	42	7.514	10.576	-11.906	1.00	69.45	L	C
ATOM	4051	CE	LYS	L	42	8.471	11.203	-12.972	1.00	68.53	L	C
ATOM	4054	NZ	LYS	L	42	9.482	12.194	-12.469	1.00	67.12	L	N
ATOM	4058	C	LYS	L	42	2.899	9.264	-12.542	1.00	46.39	L	C
ATOM	4059	O	LYS	L	42	2.285	9.605	-13.547	1.00	43.87	L	O

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ATOM	4061	N	VAL	L	43	2.286	8.896	-11.424	1.00	46.96	L	N
ATOM	4062	CA	VAL	L	43	0.837	9.032	-11.275	1.00	45.71	L	C
ATOM	4064	CB	VAL	L	43	0.262	8.169	-10.064	1.00	49.12	L	C
ATOM	4066	CG1	VAL	L	43	0.725	6.742	-10.169	1.00	49.87	L	C
ATOM	4070	CG2	VAL	L	43	0.659	8.754	-8.700	1.00	43.78	L	C
ATOM	4074	C	VAL	L	43	0.501	10.512	-11.087	1.00	40.44	L	C
ATOM	4075	O	VAL	L	43	1.307	11.262	-10.514	1.00	36.39	L	O
ATOM	4077	N	PRO	L	44	-0.680	10.947	-11.561	1.00	36.93	L	N
ATOM	4078	CA	PRO	L	44	-1.073	12.340	-11.263	1.00	37.73	L	C
ATOM	4080	CB	PRO	L	44	-2.438	12.477	-11.922	1.00	36.90	L	C
ATOM	4083	CG	PRO	L	44	-2.413	11.432	-13.035	1.00	37.84	L	C
ATOM	4086	CD	PRO	L	44	-1.656	10.276	-12.424	1.00	35.19	L	C
ATOM	4089	C	PRO	L	44	-1.147	12.692	-9.769	1.00	33.20	L	C
ATOM	4090	O	PRO	L	44	-1.457	11.857	-8.935	1.00	31.82	L	O
ATOM	4091	N	LYS	L	45	-0.837	13.934	-9.459	1.00	36.45	L	N
ATOM	4092	CA	LYS	L	45	-0.835	14.452	-8.093	1.00	35.63	L	C
ATOM	4094	CB	LYS	L	45	0.578	14.907	-7.706	1.00	39.36	L	C
ATOM	4097	CG	LYS	L	45	0.733	15.753	-6.435	1.00	39.89	L	C
ATOM	4100	CD	LYS	L	45	0.216	15.063	-5.181	1.00	43.00	L	C
ATOM	4103	CE	LYS	L	45	0.766	15.726	-3.918	1.00	43.84	L	C
ATOM	4106	NZ	LYS	L	45	0.264	15.099	-2.642	1.00	41.93	L	N
ATOM	4110	C	LYS	L	45	-1.829	15.626	-8.049	1.00	33.34	L	C
ATOM	4111	O	LYS	L	45	-1.683	16.594	-8.777	1.00	31.98	L	O
ATOM	4113	N	LEU	L	46	-2.859	15.514	-7.221	1.00	34.77	L	N
ATOM	4114	CA	LEU	L	46	-3.788	16.641	-7.005	1.00	32.13	L	C
ATOM	4116	CB	LEU	L	46	-5.018	16.182	-6.242	1.00	34.33	L	C
ATOM	4119	CG	LEU	L	46	-6.167	17.170	-6.065	1.00	33.49	L	C
ATOM	4121	CD1	LEU	L	46	-6.795	17.479	-7.410	1.00	28.78	L	C
ATOM	4125	CD2	LEU	L	46	-7.185	16.607	-5.114	1.00	28.04	L	C
ATOM	4129	C	LEU	L	46	-3.102	17.756	-6.229	1.00	34.35	L	C
ATOM	4130	O	LEU	L	46	-2.678	17.550	-5.094	1.00	35.17	L	O
ATOM	4132	N	LEU	L	47	-2.983	18.931	-6.846	1.00	35.02	L	N
ATOM	4133	CA	LEU	L	47	-2.338	20.080	-6.199	1.00	34.75	L	C
ATOM	4135	CB	LEU	L	47	-1.625	20.970	-7.235	1.00	37.30	L	C
ATOM	4138	CG	LEU	L	47	-0.511	20.433	-8.134	1.00	36.91	L	C
ATOM	4140	CD1	LEU	L	47	-0.185	21.506	-9.166	1.00	37.64	L	C
ATOM	4144	CD2	LEU	L	47	0.722	20.053	-7.379	1.00	36.33	L	C
ATOM	4148	C	LEU	L	47	-3.366	20.943	-5.449	1.00	34.71	L	C
ATOM	4149	O	LEU	L	47	-3.107	21.413	-4.333	1.00	35.58	L	O
ATOM	4151	N	ILE	L	48	-4.513	21.166	-6.095	1.00	34.25	L	N
ATOM	4152	CA	ILE	L	48	-5.510	22.151	-5.668	1.00	34.30	L	C
ATOM	4154	CB	ILE	L	48	-5.476	23.441	-6.547	1.00	36.91	L	C
ATOM	4156	CG1	ILE	L	48	-4.052	24.041	-6.669	1.00	38.99	L	C
ATOM	4159	CD1	ILE	L	48	-3.627	24.990	-5.565	1.00	42.17	L	C
ATOM	4163	CG2	ILE	L	48	-6.456	24.472	-6.033	1.00	35.75	L	C
ATOM	4167	C	ILE	L	48	-6.890	21.543	-5.842	1.00	36.46	L	C
ATOM	4168	O	ILE	L	48	-7.207	21.029	-6.922	1.00	30.87	L	O
ATOM	4170	N	SER	L	49	-7.719	21.607	-4.795	1.00	37.39	L	N
ATOM	4171	CA	SER	L	49	-9.112	21.176	-4.905	1.00	40.10	L	C
ATOM	4173	CB	SER	L	49	-9.481	20.176	-3.800	1.00	45.16	L	C
ATOM	4176	OG	SER	L	49	-8.959	20.537	-2.534	1.00	46.63	L	O
ATOM	4178	C	SER	L	49	-10.069	22.364	-4.872	1.00	40.45	L	C
ATOM	4179	O	SER	L	49	-9.681	23.500	-4.605	1.00	40.01	L	O
ATOM	4181	N	GLY	L	50	-11.334	22.082	-5.137	1.00	47.40	L	N
ATOM	4182	CA	GLY	L	50	-12.357	23.105	-5.190	1.00	50.48	L	C
ATOM	4185	C	GLY	L	50	-12.186	24.122	-4.084	1.00	57.17	L	C
ATOM	4186	O	GLY	L	50	-11.722	23.789	-2.975	1.00	64.58	L	O
ATOM	4188	N	GLY	L	51	-12.541	25.370	-4.375	1.00	57.23	L	N
ATOM	4189	CA	GLY	L	51	-12.319	26.452	-3.413	1.00	56.70	L	C
ATOM	4192	C	GLY	L	51	-10.895	26.977	-3.466	1.00	59.08	L	C
ATOM	4193	O	GLY	L	51	-10.520	27.844	-2.667	1.00	60.69	L	O
ATOM	4195	N	ASN	L	52	-10.103	26.449	-4.405	1.00	54.23	L	N
ATOM	4196	CA	ASN	L	52	-8.698	26.800	-4.537	1.00	50.30	L	C
ATOM	4198	CB	ASN	L	52	-8.583	28.239	-5.024	1.00	52.59	L	C
ATOM	4201	CG	ASN	L	52	-9.372	28.441	-6.304	1.00	59.49	L	C
ATOM	4202	OD1	ASN	L	52	-9.301	27.593	-7.223	1.00	53.16	L	O
ATOM	4203	ND2	ASN	L	52	-10.180	29.518	-6.358	1.00	62.40	L	N
ATOM	4206	C	ASN	L	52	-7.924	26.514	-3.267	1.00	44.30	L	C

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ATOM	4207	O	ASN	L	52	-7.099	27.309	-2.811	1.00	40.03	L	O
ATOM	4209	N	THR	L	53	-8.181	25.316	-2.754	1.00	43.59	L	N
ATOM	4210	CA	THR	L	53	-7.552	24.801	-1.547	1.00	44.07	L	C
ATOM	4212	CB	THR	L	53	-8.496	23.833	-0.787	1.00	45.06	L	C
ATOM	4214	OG1	THR	L	53	-9.653	24.553	-0.360	1.00	46.82	L	O
ATOM	4216	CG2	THR	L	53	-7.796	23.228	0.424	1.00	42.81	L	C
ATOM	4220	C	THR	L	53	-6.300	24.034	-1.904	1.00	39.74	L	C
ATOM	4221	O	THR	L	53	-6.358	23.032	-2.590	1.00	39.11	L	O
ATOM	4223	N	LEU	L	54	-5.172	24.524	-1.419	1.00	41.00	L	N
ATOM	4224	CA	LEU	L	54	-3.916	23.833	-1.544	1.00	41.76	L	C
ATOM	4226	CB	LEU	L	54	-2.788	24.707	-0.999	1.00	42.70	L	C
ATOM	4229	CG	LEU	L	54	-1.362	24.215	-1.224	1.00	45.27	L	C
ATOM	4231	CD1	LEU	L	54	-1.085	24.009	-2.728	1.00	41.65	L	C
ATOM	4235	CD2	LEU	L	54	-0.382	25.199	-0.574	1.00	41.94	L	C
ATOM	4239	C	LEU	L	54	-4.008	22.503	-0.784	1.00	45.21	L	C
ATOM	4240	O	LEU	L	54	-4.636	22.416	0.277	1.00	46.41	L	O
ATOM	4242	N	ARG	L	55	-3.401	21.461	-1.349	1.00	46.12	L	N
ATOM	4243	CA	ARG	L	55	-3.434	20.148	-0.734	1.00	44.14	L	C
ATOM	4245	CB	ARG	L	55	-3.618	19.062	-1.801	1.00	43.45	L	C
ATOM	4248	CG	ARG	L	55	-5.003	19.057	-2.400	1.00	41.84	L	C
ATOM	4251	CD	ARG	L	55	-5.962	18.453	-1.404	1.00	45.95	L	C
ATOM	4254	NE	ARG	L	55	-7.311	18.290	-1.917	1.00	47.10	L	N
ATOM	4256	CZ	ARG	L	55	-8.161	17.352	-1.496	1.00	48.12	L	C
ATOM	4257	NH1	ARG	L	55	-7.798	16.456	-0.596	1.00	50.15	L	N
ATOM	4260	NH2	ARG	L	55	-9.375	17.279	-2.008	1.00	49.95	L	N
ATOM	4263	C	ARG	L	55	-2.183	19.883	0.096	1.00	46.76	L	C
ATOM	4264	O	ARG	L	55	-1.120	20.450	-0.159	1.00	47.31	L	O
ATOM	4266	N	PRO	L	56	-2.326	19.033	1.122	1.00	51.28	L	N
ATOM	4267	CA	PRO	L	56	-1.230	18.484	1.884	1.00	50.47	L	C
ATOM	4269	CB	PRO	L	56	-1.796	17.142	2.331	1.00	55.09	L	C
ATOM	4272	CG	PRO	L	56	-3.266	17.461	2.603	1.00	57.06	L	C
ATOM	4275	CD	PRO	L	56	-3.627	18.589	1.671	1.00	55.38	L	C
ATOM	4278	C	PRO	L	56	0.051	18.235	1.106	1.00	51.45	L	C
ATOM	4279	O	PRO	L	56	0.066	17.421	0.171	1.00	50.11	L	O
ATOM	4280	N	GLY	L	57	1.113	18.936	1.496	1.00	51.39	L	N
ATOM	4281	CA	GLY	L	57	2.472	18.650	1.013	1.00	49.83	L	C
ATOM	4284	C	GLY	L	57	2.788	19.214	-0.357	1.00	48.23	L	C
ATOM	4285	O	GLY	L	57	3.700	18.724	-1.063	1.00	50.72	L	O
ATOM	4287	N	VAL	L	58	2.007	20.213	-0.757	1.00	45.82	L	N
ATOM	4288	CA	VAL	L	58	2.200	20.893	-2.041	1.00	45.58	L	C
ATOM	4290	CB	VAL	L	58	0.863	21.124	-2.789	1.00	45.31	L	C
ATOM	4292	CG1	VAL	L	58	1.092	21.988	-4.022	1.00	47.89	L	C
ATOM	4296	CG2	VAL	L	58	0.182	19.786	-3.181	1.00	45.27	L	C
ATOM	4300	C	VAL	L	58	2.816	22.246	-1.724	1.00	43.35	L	C
ATOM	4301	O	VAL	L	58	2.295	22.968	-0.852	1.00	47.99	L	O
ATOM	4303	N	PRO	L	59	3.901	22.626	-2.420	1.00	42.38	L	N
ATOM	4304	CA	PRO	L	59	4.475	23.927	-2.092	1.00	44.55	L	C
ATOM	4306	CB	PRO	L	59	5.673	24.040	-3.040	1.00	43.20	L	C
ATOM	4309	CG	PRO	L	59	5.957	22.692	-3.469	1.00	45.64	L	C
ATOM	4312	CD	PRO	L	59	4.663	21.963	-3.483	1.00	45.82	L	C
ATOM	4315	C	PRO	L	59	3.500	25.094	-2.308	1.00	47.38	L	C
ATOM	4316	O	PRO	L	59	2.675	25.069	-3.228	1.00	47.35	L	O
ATOM	4317	N	SER	L	60	3.614	26.101	-1.445	1.00	49.91	L	N
ATOM	4318	CA	SER	L	60	2.732	27.275	-1.454	1.00	46.98	L	C
ATOM	4320	CB	SER	L	60	2.979	28.096	-0.195	1.00	49.20	L	C
ATOM	4323	OG	SER	L	60	4.350	28.469	-0.129	1.00	54.02	L	O
ATOM	4325	C	SER	L	60	2.960	28.176	-2.683	1.00	45.00	L	C
ATOM	4326	O	SER	L	60	2.218	29.132	-2.901	1.00	41.26	L	O
ATOM	4328	N	ARG	L	61	3.994	27.892	-3.476	1.00	44.43	L	N
ATOM	4329	CA	ARG	L	61	4.144	28.592	-4.755	1.00	40.58	L	C
ATOM	4331	CB	ARG	L	61	5.535	28.408	-5.355	1.00	42.96	L	C
ATOM	4334	CG	ARG	L	61	5.925	26.991	-5.736	1.00	46.79	L	C
ATOM	4337	CD	ARG	L	61	7.219	26.983	-6.552	1.00	45.12	L	C
ATOM	4340	NE	ARG	L	61	7.616	25.626	-6.881	1.00	45.75	L	N
ATOM	4342	CZ	ARG	L	61	8.457	24.878	-6.170	1.00	52.14	L	C
ATOM	4343	NH1	ARG	L	61	9.028	25.337	-5.056	1.00	54.70	L	N
ATOM	4346	NH2	ARG	L	61	8.744	23.647	-6.582	1.00	52.43	L	N
ATOM	4349	C	ARG	L	61	3.039	28.203	-5.747	1.00	39.79	L	C

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ATOM	4350	O	ARG	L	61	2.816	28.914	-6.712	1.00	38.24	L	O
ATOM	4352	N	PHE	L	62	2.328	27.099	-5.489	1.00	40.12	L	N
ATOM	4353	CA	PHE	L	62	1.128	26.768	-6.255	1.00	36.18	L	C
ATOM	4355	CB	PHE	L	62	0.958	25.262	-6.373	1.00	37.77	L	C
ATOM	4358	CG	PHE	L	62	2.045	24.594	-7.188	1.00	39.45	L	C
ATOM	4359	CD1	PHE	L	62	1.905	24.437	-8.562	1.00	36.03	L	C
ATOM	4361	CE1	PHE	L	62	2.921	23.830	-9.311	1.00	37.45	L	C
ATOM	4363	CZ	PHE	L	62	4.083	23.373	-8.681	1.00	35.57	L	C
ATOM	4365	CE2	PHE	L	62	4.225	23.524	-7.315	1.00	38.56	L	C
ATOM	4367	CD2	PHE	L	62	3.218	24.142	-6.575	1.00	38.05	L	C
ATOM	4369	C	PHE	L	62	-0.087	27.408	-5.625	1.00	39.32	L	C
ATOM	4370	O	PHE	L	62	-0.219	27.419	-4.399	1.00	40.99	L	O
ATOM	4372	N	SER	L	63	-0.965	27.963	-6.469	1.00	39.68	L	N
ATOM	4373	CA	SER	L	63	-2.223	28.573	-6.005	1.00	37.11	L	C
ATOM	4375	CB	SER	L	63	-1.989	30.005	-5.481	1.00	40.67	L	C
ATOM	4378	OG	SER	L	63	-1.480	30.871	-6.483	1.00	44.67	L	O
ATOM	4380	C	SER	L	63	-3.286	28.593	-7.103	1.00	36.69	L	C
ATOM	4381	O	SER	L	63	-2.974	28.756	-8.287	1.00	36.38	L	O
ATOM	4383	N	GLY	L	64	-4.550	28.454	-6.699	1.00	38.64	L	N
ATOM	4384	CA	GLY	L	64	-5.669	28.532	-7.631	1.00	36.63	L	C
ATOM	4387	C	GLY	L	64	-6.551	29.743	-7.374	1.00	38.35	L	C
ATOM	4388	O	GLY	L	64	-6.539	30.327	-6.277	1.00	38.90	L	O
ATOM	4390	N	SER	L	65	-7.331	30.124	-8.390	1.00	38.60	L	N
ATOM	4391	CA	SER	L	65	-8.243	31.250	-8.276	1.00	38.42	L	C
ATOM	4393	CB	SER	L	65	-7.509	32.602	-8.350	1.00	45.55	L	C
ATOM	4396	OG	SER	L	65	-6.959	32.871	-9.635	1.00	45.69	L	O
ATOM	4398	C	SER	L	65	-9.300	31.168	-9.354	1.00	41.88	L	C
ATOM	4399	O	SER	L	65	-9.166	30.409	-10.326	1.00	38.27	L	O
ATOM	4401	N	GLY	L	66	-10.375	31.942	-9.153	1.00	44.14	L	N
ATOM	4402	CA	GLY	L	66	-11.526	31.932	-10.048	1.00	41.05	L	C
ATOM	4405	C	GLY	L	66	-12.698	31.162	-9.455	1.00	41.71	L	C
ATOM	4406	O	GLY	L	66	-12.545	30.353	-8.540	1.00	42.11	L	O
ATOM	4408	N	SER	L	67	-13.873	31.425	-10.018	1.00	42.51	L	N
ATOM	4409	CA	SER	L	67	-15.138	30.913	-9.517	1.00	43.33	L	C
ATOM	4411	CB	SER	L	67	-15.559	31.711	-8.269	1.00	47.74	L	C
ATOM	4414	OG	SER	L	67	-16.798	31.250	-7.751	1.00	55.15	L	O
ATOM	4416	C	SER	L	67	-16.162	31.074	-10.636	1.00	43.41	L	C
ATOM	4417	O	SER	L	67	-16.076	32.014	-11.414	1.00	48.79	L	O
ATOM	4419	N	GLY	L	68	-17.101	30.144	-10.748	1.00	44.16	L	N
ATOM	4420	CA	GLY	L	68	-18.105	30.184	-11.811	1.00	41.67	L	C
ATOM	4423	C	GLY	L	68	-17.664	29.436	-13.060	1.00	44.79	L	C
ATOM	4424	O	GLY	L	68	-17.965	28.243	-13.241	1.00	42.27	L	O
ATOM	4426	N	THR	L	69	-16.951	30.148	-13.924	1.00	44.49	L	N
ATOM	4427	CA	THR	L	69	-16.613	29.656	-15.263	1.00	40.94	L	C
ATOM	4429	CB	THR	L	69	-17.494	30.456	-16.286	1.00	42.07	L	C
ATOM	4431	OG1	THR	L	69	-18.538	29.612	-16.800	1.00	45.57	L	O
ATOM	4433	CG2	THR	L	69	-16.679	31.028	-17.436	1.00	35.26	L	C
ATOM	4437	C	THR	L	69	-15.115	29.734	-15.635	1.00	37.03	L	C
ATOM	4438	O	THR	L	69	-14.633	28.920	-16.426	1.00	39.25	L	O
ATOM	4440	N	ASP	L	70	-14.385	30.671	-15.030	1.00	35.24	L	N
ATOM	4441	CA	ASP	L	70	-13.042	31.052	-15.467	1.00	36.87	L	C
ATOM	4443	CB	ASP	L	70	-13.009	32.549	-15.830	1.00	36.82	L	C
ATOM	4446	CG	ASP	L	70	-13.711	32.881	-17.164	1.00	42.53	L	C
ATOM	4447	OD1	ASP	L	70	-14.362	32.022	-17.799	1.00	45.02	L	O
ATOM	4448	OD2	ASP	L	70	-13.604	34.049	-17.590	1.00	49.54	L	O
ATOM	4449	C	ASP	L	70	-12.013	30.799	-14.379	1.00	36.38	L	C
ATOM	4450	O	ASP	L	70	-11.962	31.530	-13.407	1.00	37.51	L	O
ATOM	4452	N	PHE	L	71	-11.165	29.787	-14.559	1.00	38.56	L	N
ATOM	4453	CA	PHE	L	71	-10.246	29.334	-13.502	1.00	36.26	L	C
ATOM	4455	CB	PHE	L	71	-10.595	27.905	-13.128	1.00	37.35	L	C
ATOM	4458	CG	PHE	L	71	-12.022	27.744	-12.685	1.00	39.36	L	C
ATOM	4459	CD1	PHE	L	71	-12.376	27.944	-11.366	1.00	41.49	L	C
ATOM	4461	CE1	PHE	L	71	-13.679	27.798	-10.970	1.00	41.70	L	C
ATOM	4463	CZ	PHE	L	71	-14.645	27.472	-11.892	1.00	38.74	L	C
ATOM	4465	CE2	PHE	L	71	-14.304	27.288	-13.201	1.00	35.34	L	C
ATOM	4467	CD2	PHE	L	71	-13.009	27.421	-13.593	1.00	36.05	L	C
ATOM	4469	C	PHE	L	71	-8.770	29.446	-13.875	1.00	35.85	L	C
ATOM	4470	O	PHE	L	71	-8.412	29.261	-15.031	1.00	37.78	L	O

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ATOM	4472	N	THR	L	72	-7.930	29.768	-12.888	1.00	33.41	L	N
ATOM	4473	CA	THR	L	72	-6.498	29.977	-13.116	1.00	37.62	L	C
ATOM	4475	CB	THR	L	72	-6.100	31.478	-13.045	1.00	37.06	L	C
ATOM	4477	OG1	THR	L	72	-6.900	32.233	-13.956	1.00	36.67	L	O
ATOM	4479	CG2	THR	L	72	-4.656	31.669	-13.403	1.00	33.86	L	C
ATOM	4483	C	THR	L	72	-5.686	29.195	-12.082	1.00	36.83	L	C
ATOM	4484	O	THR	L	72	-6.071	29.159	-10.914	1.00	37.82	L	O
ATOM	4486	N	LEU	L	73	-4.615	28.535	-12.549	1.00	33.33	L	N
ATOM	4487	CA	LEU	L	73	-3.558	27.972	-11.714	1.00	34.88	L	C
ATOM	4489	CB	LEU	L	73	-3.243	26.547	-12.140	1.00	37.22	L	C
ATOM	4492	CG	LEU	L	73	-2.116	25.800	-11.422	1.00	36.88	L	C
ATOM	4494	CD1	LEU	L	73	-2.586	25.278	-10.069	1.00	34.28	L	C
ATOM	4498	CD2	LEU	L	73	-1.579	24.660	-12.284	1.00	33.30	L	C
ATOM	4502	C	LEU	L	73	-2.326	28.842	-11.944	1.00	39.78	L	C
ATOM	4503	O	LEU	L	73	-1.987	29.145	-13.097	1.00	41.70	L	O
ATOM	4505	N	THR	L	74	-1.674	29.243	-10.847	1.00	37.29	L	N
ATOM	4506	CA	THR	L	74	-0.479	30.088	-10.873	1.00	35.88	L	C
ATOM	4508	CB	THR	L	74	-0.736	31.459	-10.233	1.00	33.16	L	C
ATOM	4510	OG1	THR	L	74	-1.840	32.098	-10.883	1.00	39.65	L	O
ATOM	4512	CG2	THR	L	74	0.483	32.369	-10.333	1.00	32.43	L	C
ATOM	4516	C	THR	L	74	0.635	29.372	-10.098	1.00	40.00	L	C
ATOM	4517	O	THR	L	74	0.434	28.928	-8.965	1.00	37.04	L	O
ATOM	4519	N	ILE	L	75	1.793	29.235	-10.735	1.00	38.81	L	N
ATOM	4520	CA	ILE	L	75	3.028	28.872	-10.052	1.00	38.64	L	C
ATOM	4522	CB	ILE	L	75	3.870	27.853	-10.844	1.00	34.90	L	C
ATOM	4524	CG1	ILE	L	75	2.967	26.783	-11.474	1.00	36.31	L	C
ATOM	4527	CD1	ILE	L	75	3.685	25.831	-12.415	1.00	35.56	L	C
ATOM	4531	CG2	ILE	L	75	4.913	27.264	-9.937	1.00	30.85	L	C
ATOM	4535	C	ILE	L	75	3.827	30.160	-9.913	1.00	40.29	L	C
ATOM	4536	O	ILE	L	75	4.343	30.684	-10.905	1.00	40.29	L	O
ATOM	4538	N	SER	L	76	3.967	30.653	-8.684	1.00	43.72	L	N
ATOM	4539	CA	SER	L	76	4.460	32.019	-8.467	1.00	45.63	L	C
ATOM	4541	CB	SER	L	76	4.101	32.517	-7.049	1.00	48.92	L	C
ATOM	4544	OG	SER	L	76	5.094	32.158	-6.088	1.00	49.89	L	O
ATOM	4546	C	SER	L	76	5.966	32.165	-8.719	1.00	48.57	L	C
ATOM	4547	O	SER	L	76	6.448	33.267	-9.064	1.00	53.90	L	O
ATOM	4549	N	SER	L	77	6.710	31.079	-8.517	1.00	45.29	L	N
ATOM	4550	CA	SER	L	77	8.158	31.103	-8.698	1.00	44.60	L	C
ATOM	4552	CB	SER	L	77	8.863	31.502	-7.387	1.00	48.40	L	C
ATOM	4555	OG	SER	L	77	10.168	30.952	-7.292	1.00	48.72	L	O
ATOM	4557	C	SER	L	77	8.623	29.741	-9.200	1.00	43.22	L	C
ATOM	4558	O	SER	L	77	9.030	28.873	-8.423	1.00	45.88	L	O
ATOM	4560	N	LEU	L	78	8.573	29.585	-10.522	1.00	36.56	L	N
ATOM	4561	CA	LEU	L	78	8.832	28.317	-11.180	1.00	37.70	L	C
ATOM	4563	CB	LEU	L	78	8.750	28.488	-12.704	1.00	36.72	L	C
ATOM	4566	CG	LEU	L	78	8.802	27.256	-13.620	1.00	38.10	L	C
ATOM	4568	CD1	LEU	L	78	7.586	26.375	-13.395	1.00	32.47	L	C
ATOM	4572	CD2	LEU	L	78	8.916	27.662	-15.110	1.00	35.07	L	C
ATOM	4576	C	LEU	L	78	10.178	27.725	-10.775	1.00	35.11	L	C
ATOM	4577	O	LEU	L	78	11.208	28.386	-10.876	1.00	38.08	L	O
ATOM	4579	N	GLN	L	79	10.155	26.480	-10.315	1.00	37.80	L	N
ATOM	4580	CA	GLN	L	79	11.369	25.762	-9.922	1.00	39.95	L	C
ATOM	4582	CB	GLN	L	79	11.242	25.286	-8.471	1.00	41.77	L	C
ATOM	4585	CG	GLN	L	79	11.091	26.410	-7.430	1.00	39.16	L	C
ATOM	4588	CD	GLN	L	79	12.279	27.338	-7.381	1.00	43.01	L	C
ATOM	4589	OE1	GLN	L	79	13.423	26.891	-7.245	1.00	45.36	L	O
ATOM	4590	NE2	GLN	L	79	12.022	28.642	-7.471	1.00	40.10	L	N
ATOM	4593	C	GLN	L	79	11.619	24.573	-10.879	1.00	38.08	L	C
ATOM	4594	O	GLN	L	79	10.693	24.073	-11.507	1.00	38.53	L	O
ATOM	4596	N	PRO	L	80	12.878	24.128	-11.002	1.00	40.67	L	N
ATOM	4597	CA	PRO	L	80	13.200	23.015	-11.895	1.00	41.65	L	C
ATOM	4599	CB	PRO	L	80	14.635	22.675	-11.500	1.00	43.62	L	C
ATOM	4602	CG	PRO	L	80	15.206	23.967	-11.082	1.00	42.88	L	C
ATOM	4605	CD	PRO	L	80	14.084	24.657	-10.344	1.00	41.99	L	C
ATOM	4608	C	PRO	L	80	12.288	21.790	-11.752	1.00	41.70	L	C
ATOM	4609	O	PRO	L	80	11.867	21.222	-12.764	1.00	40.54	L	O
ATOM	4610	N	GLU	L	81	11.998	21.393	-10.509	1.00	41.26	L	N
ATOM	4611	CA	GLU	L	81	11.119	20.253	-10.212	1.00	41.41	L	C

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ATOM	4613	CB	GLU	L	81	11.128	19.953	-8.699	1.00	48.89	L	C
ATOM	4616	CG	GLU	L	81	10.628	21.086	-7.793	1.00	54.78	L	C
ATOM	4619	CD	GLU	L	81	11.752	21.829	-7.037	1.00	62.95	L	C
ATOM	4620	OE1	GLU	L	81	12.799	22.229	-7.656	1.00	58.58	L	O
ATOM	4621	OE2	GLU	L	81	11.562	22.013	-5.806	1.00	65.03	L	O
ATOM	4622	C	GLU	L	81	9.661	20.407	-10.666	1.00	40.11	L	C
ATOM	4623	O	GLU	L	81	8.888	19.463	-10.590	1.00	39.53	L	O
ATOM	4625	N	ASP	L	82	9.283	21.601	-11.112	1.00	40.76	L	N
ATOM	4626	CA	ASP	L	82	7.911	21.864	-11.549	1.00	40.67	L	C
ATOM	4628	CB	ASP	L	82	7.527	23.326	-11.323	1.00	42.80	L	C
ATOM	4631	CG	ASP	L	82	7.663	23.743	-9.892	1.00	45.91	L	C
ATOM	4632	OD1	ASP	L	82	7.456	22.877	-9.011	1.00	45.26	L	O
ATOM	4633	OD2	ASP	L	82	7.994	24.932	-9.661	1.00	46.45	L	O
ATOM	4634	C	ASP	L	82	7.657	21.509	-13.003	1.00	41.69	L	C
ATOM	4635	O	ASP	L	82	6.528	21.673	-13.487	1.00	44.51	L	O
ATOM	4637	N	VAL	L	83	8.683	21.027	-13.696	1.00	39.15	L	N
ATOM	4638	CA	VAL	L	83	8.517	20.602	-15.069	1.00	38.47	L	C
ATOM	4640	CB	VAL	L	83	9.861	20.325	-15.756	1.00	40.10	L	C
ATOM	4642	CG1	VAL	L	83	10.533	19.081	-15.186	1.00	45.50	L	C
ATOM	4646	CG2	VAL	L	83	9.652	20.160	-17.247	1.00	45.92	L	C
ATOM	4650	C	VAL	L	83	7.619	19.366	-15.063	1.00	41.48	L	C
ATOM	4651	O	VAL	L	83	7.950	18.357	-14.422	1.00	44.37	L	O
ATOM	4653	N	ALA	L	84	6.495	19.458	-15.778	1.00	37.83	L	N
ATOM	4654	CA	ALA	L	84	5.433	18.482	-15.704	1.00	35.03	L	C
ATOM	4656	CB	ALA	L	84	4.859	18.442	-14.302	1.00	36.88	L	C
ATOM	4660	C	ALA	L	84	4.367	18.906	-16.697	1.00	35.87	L	C
ATOM	4661	O	ALA	L	84	4.506	19.966	-17.309	1.00	32.35	L	O
ATOM	4663	N	THR	L	85	3.337	18.066	-16.893	1.00	34.44	L	N
ATOM	4664	CA	THR	L	85	2.109	18.504	-17.563	1.00	33.72	L	C
ATOM	4666	CB	THR	L	85	1.653	17.519	-18.643	1.00	33.23	L	C
ATOM	4668	OG1	THR	L	85	2.672	17.432	-19.640	1.00	37.48	L	O
ATOM	4670	CG2	THR	L	85	0.356	17.963	-19.299	1.00	30.16	L	C
ATOM	4674	C	THR	L	85	1.043	18.717	-16.491	1.00	35.04	L	C
ATOM	4675	O	THR	L	85	0.930	17.922	-15.561	1.00	37.05	L	O
ATOM	4677	N	TYR	L	86	0.300	19.819	-16.597	1.00	38.23	L	N
ATOM	4678	CA	TYR	L	86	-0.727	20.177	-15.599	1.00	35.38	L	C
ATOM	4680	CB	TYR	L	86	-0.530	21.593	-15.059	1.00	38.47	L	C
ATOM	4683	CG	TYR	L	86	0.756	21.715	-14.279	1.00	37.97	L	C
ATOM	4684	CD1	TYR	L	86	0.804	21.408	-12.924	1.00	41.81	L	C
ATOM	4686	CE1	TYR	L	86	1.999	21.467	-12.211	1.00	40.89	L	C
ATOM	4688	CZ	TYR	L	86	3.156	21.843	-12.861	1.00	41.50	L	C
ATOM	4689	OH	TYR	L	86	4.350	21.913	-12.170	1.00	41.05	L	O
ATOM	4691	CE2	TYR	L	86	3.125	22.151	-14.209	1.00	40.56	L	C
ATOM	4693	CD2	TYR	L	86	1.932	22.081	-14.907	1.00	36.80	L	C
ATOM	4695	C	TYR	L	86	-2.083	20.029	-16.226	1.00	34.72	L	C
ATOM	4696	O	TYR	L	86	-2.260	20.374	-17.397	1.00	31.16	L	O
ATOM	4698	N	TYR	L	87	-3.030	19.481	-15.447	1.00	34.27	L	N
ATOM	4699	CA	TYR	L	87	-4.417	19.257	-15.926	1.00	31.60	L	C
ATOM	4701	CB	TYR	L	87	-4.725	17.778	-16.100	1.00	30.92	L	C
ATOM	4704	CG	TYR	L	87	-3.812	17.022	-17.029	1.00	28.71	L	C
ATOM	4705	CD1	TYR	L	87	-4.127	16.869	-18.368	1.00	29.76	L	C
ATOM	4707	CE1	TYR	L	87	-3.272	16.158	-19.251	1.00	26.57	L	C
ATOM	4709	CZ	TYR	L	87	-2.123	15.593	-18.765	1.00	32.44	L	C
ATOM	4710	OH	TYR	L	87	-1.290	14.889	-19.613	1.00	33.66	L	O
ATOM	4712	CE2	TYR	L	87	-1.801	15.711	-17.413	1.00	32.99	L	C
ATOM	4714	CD2	TYR	L	87	-2.651	16.426	-16.556	1.00	31.33	L	C
ATOM	4716	C	TYR	L	87	-5.413	19.803	-14.942	1.00	31.18	L	C
ATOM	4717	O	TYR	L	87	-5.332	19.490	-13.756	1.00	34.73	L	O
ATOM	4719	N	CYS	L	88	-6.361	20.605	-15.415	1.00	30.90	L	N
ATOM	4720	CA	CYS	L	88	-7.481	20.999	-14.575	1.00	30.40	L	C
ATOM	4722	CB	CYS	L	88	-8.037	22.325	-15.019	1.00	34.53	L	C
ATOM	4725	SG	CYS	L	88	-8.905	22.290	-16.549	1.00	47.15	L	S
ATOM	4727	C	CYS	L	88	-8.561	19.913	-14.635	1.00	32.80	L	C
ATOM	4728	O	CYS	L	88	-8.626	19.090	-15.575	1.00	33.13	L	O
ATOM	4730	N	LEU	L	89	-9.378	19.863	-13.607	1.00	33.56	L	N
ATOM	4731	CA	LEU	L	89	-10.494	18.897	-13.566	1.00	33.45	L	C
ATOM	4733	CB	LEU	L	89	-10.093	17.574	-12.903	1.00	28.53	L	C
ATOM	4736	CG	LEU	L	89	-11.251	16.607	-12.619	1.00	33.45	L	C

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ATOM	4738	CD1	LEU	L	89	-11.409	15.553	-13.683	1.00	24.26	L	C
ATOM	4742	CD2	LEU	L	89	-11.075	15.981	-11.276	1.00	32.30	L	C
ATOM	4746	C	LEU	L	89	-11.685	19.555	-12.830	1.00	33.18	L	C
ATOM	4747	O	LEU	L	89	-11.576	20.043	-11.679	1.00	29.89	L	O
ATOM	4749	N	GLN	L	90	-12.796	19.566	-13.544	1.00	31.68	L	N
ATOM	4750	CA	GLN	L	90	-14.050	20.094	-13.095	1.00	37.35	L	C
ATOM	4752	CB	GLN	L	90	-14.819	20.490	-14.378	1.00	38.34	L	C
ATOM	4755	CG	GLN	L	90	-16.291	20.631	-14.278	1.00	44.48	L	C
ATOM	4758	CD	GLN	L	90	-17.082	19.329	-14.290	1.00	40.86	L	C
ATOM	4759	OE1	GLN	L	90	-16.749	18.380	-14.976	1.00	35.40	L	O
ATOM	4760	NE2	GLN	L	90	-18.174	19.322	-13.550	1.00	39.92	L	N
ATOM	4763	C	GLN	L	90	-14.746	18.958	-12.323	1.00	39.41	L	C
ATOM	4764	O	GLN	L	90	-14.840	17.833	-12.833	1.00	33.79	L	O
ATOM	4766	N	SER	L	91	-15.213	19.246	-11.104	1.00	41.54	L	N
ATOM	4767	CA	SER	L	91	-15.961	18.261	-10.287	1.00	39.18	L	C
ATOM	4769	CB	SER	L	91	-15.063	17.690	-9.189	1.00	41.54	L	C
ATOM	4772	OG	SER	L	91	-14.822	18.637	-8.152	1.00	45.72	L	O
ATOM	4774	C	SER	L	91	-17.276	18.859	-9.683	1.00	39.48	L	C
ATOM	4775	O	SER	L	91	-17.603	18.631	-8.516	1.00	40.49	L	O
ATOM	4777	N	ASP	L	92	-17.997	19.613	-10.510	1.00	33.27	L	N
ATOM	4778	CA	ASP	L	92	-19.335	20.111	-10.236	1.00	36.99	L	C
ATOM	4780	CB	ASP	L	92	-19.759	21.013	-11.423	1.00	39.33	L	C
ATOM	4783	CG	ASP	L	92	-21.199	21.544	-11.323	1.00	39.69	L	C
ATOM	4784	OD1	ASP	L	92	-21.405	22.576	-10.635	1.00	46.81	L	O
ATOM	4785	OD2	ASP	L	92	-22.114	20.961	-11.969	1.00	37.09	L	O
ATOM	4786	C	ASP	L	92	-20.355	18.980	-10.099	1.00	36.16	L	C
ATOM	4787	O	ASP	L	92	-21.296	19.054	-9.319	1.00	37.40	L	O
ATOM	4789	N	SER	L	93	-20.179	17.943	-10.902	1.00	41.72	L	N
ATOM	4790	CA	SER	L	93	-21.124	16.839	-10.965	1.00	37.27	L	C
ATOM	4792	CB	SER	L	93	-22.427	17.295	-11.638	1.00	40.52	L	C
ATOM	4795	OG	SER	L	93	-22.181	18.081	-12.823	1.00	43.05	L	O
ATOM	4797	C	SER	L	93	-20.472	15.738	-11.794	1.00	36.85	L	C
ATOM	4798	O	SER	L	93	-19.450	15.961	-12.447	1.00	35.22	L	O
ATOM	4800	N	LEU	L	94	-21.080	14.556	-11.753	1.00	37.02	L	N
ATOM	4801	CA	LEU	L	94	-20.637	13.426	-12.517	1.00	35.53	L	C
ATOM	4803	CB	LEU	L	94	-21.141	12.119	-11.890	1.00	36.28	L	C
ATOM	4806	CG	LEU	L	94	-20.771	11.877	-10.423	1.00	35.07	L	C
ATOM	4808	CD1	LEU	L	94	-21.484	10.638	-9.882	1.00	31.99	L	C
ATOM	4812	CD2	LEU	L	94	-19.280	11.770	-10.314	1.00	30.89	L	C
ATOM	4816	C	LEU	L	94	-21.208	13.555	-13.908	1.00	36.82	L	C
ATOM	4817	O	LEU	L	94	-22.351	13.970	-14.053	1.00	43.10	L	O
ATOM	4819	N	PRO	L	95	-20.433	13.182	-14.942	1.00	34.77	L	N
ATOM	4820	CA	PRO	L	95	-19.023	12.812	-14.886	1.00	33.72	L	C
ATOM	4822	CB	PRO	L	95	-18.768	12.176	-16.259	1.00	37.12	L	C
ATOM	4825	CG	PRO	L	95	-19.732	12.824	-17.162	1.00	36.72	L	C
ATOM	4828	CD	PRO	L	95	-20.978	13.052	-16.307	1.00	35.45	L	C
ATOM	4831	C	PRO	L	95	-18.105	14.020	-14.728	1.00	34.75	L	C
ATOM	4832	O	PRO	L	95	-18.364	15.089	-15.291	1.00	33.75	L	O
ATOM	4833	N	TYR	L	96	-17.017	13.840	-13.990	1.00	32.98	L	N
ATOM	4834	CA	TYR	L	96	-15.963	14.859	-13.941	1.00	32.41	L	C
ATOM	4836	CB	TYR	L	96	-14.947	14.512	-12.873	1.00	31.79	L	C
ATOM	4839	CG	TYR	L	96	-15.467	14.340	-11.459	1.00	33.90	L	C
ATOM	4840	CD1	TYR	L	96	-16.680	14.889	-11.036	1.00	36.68	L	C
ATOM	4842	CE1	TYR	L	96	-17.128	14.729	-9.686	1.00	29.86	L	C
ATOM	4844	CZ	TYR	L	96	-16.326	14.053	-8.785	1.00	32.83	L	C
ATOM	4845	OH	TYR	L	96	-16.690	13.890	-7.475	1.00	35.29	L	O
ATOM	4847	CE2	TYR	L	96	-15.105	13.530	-9.188	1.00	32.32	L	C
ATOM	4849	CD2	TYR	L	96	-14.686	13.674	-10.510	1.00	32.70	L	C
ATOM	4851	C	TYR	L	96	-15.250	14.964	-15.300	1.00	32.02	L	C
ATOM	4852	O	TYR	L	96	-15.311	14.036	-16.092	1.00	33.57	L	O
ATOM	4854	N	THR	L	97	-14.562	16.078	-15.554	1.00	31.32	L	N
ATOM	4855	CA	THR	L	97	-13.903	16.314	-16.846	1.00	32.79	L	C
ATOM	4857	CB	THR	L	97	-14.717	17.246	-17.786	1.00	37.55	L	C
ATOM	4859	OG1	THR	L	97	-16.119	16.912	-17.744	1.00	39.69	L	O
ATOM	4861	CG2	THR	L	97	-14.185	17.116	-19.218	1.00	33.61	L	C
ATOM	4865	C	THR	L	97	-12.559	16.990	-16.694	1.00	34.26	L	C
ATOM	4866	O	THR	L	97	-12.481	18.059	-16.084	1.00	34.49	L	O
ATOM	4868	N	PHE	L	98	-11.536	16.391	-17.309	1.00	34.71	L	N

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ATOM	4869	CA	PHE	L	98	-10.209	16.987	-17.396	1.00	34.97	L	C
ATOM	4871	CB	PHE	L	98	-9.130	15.898	-17.680	1.00	36.14	L	C
ATOM	4874	CG	PHE	L	98	-8.778	15.047	-16.488	1.00	35.05	L	C
ATOM	4875	CD1	PHE	L	98	-7.907	15.513	-15.526	1.00	32.71	L	C
ATOM	4877	CE1	PHE	L	98	-7.567	14.736	-14.448	1.00	34.49	L	C
ATOM	4879	CZ	PHE	L	98	-8.100	13.466	-14.326	1.00	34.37	L	C
ATOM	4881	CE2	PHE	L	98	-8.944	12.986	-15.284	1.00	33.05	L	C
ATOM	4883	CD2	PHE	L	98	-9.295	13.772	-16.351	1.00	37.16	L	C
ATOM	4885	C	PHE	L	98	-10.091	18.027	-18.505	1.00	35.18	L	C
ATOM	4886	O	PHE	L	98	-10.690	17.882	-19.568	1.00	33.83	L	O
ATOM	4888	N	GLY	L	99	-9.248	19.033	-18.268	1.00	35.72	L	N
ATOM	4889	CA	GLY	L	99	-8.741	19.905	-19.341	1.00	33.95	L	C
ATOM	4892	C	GLY	L	99	-7.762	19.141	-20.225	1.00	37.37	L	C
ATOM	4893	O	GLY	L	99	-7.325	18.043	-19.886	1.00	36.13	L	O
ATOM	4895	N	GLN	L	100	-7.398	19.727	-21.365	1.00	37.30	L	N
ATOM	4896	CA	GLN	L	100	-6.548	19.038	-22.336	1.00	32.80	L	C
ATOM	4898	CB	GLN	L	100	-6.587	19.748	-23.664	1.00	35.58	L	C
ATOM	4901	CG	GLN	L	100	-7.951	19.791	-24.277	1.00	36.50	L	C
ATOM	4904	CD	GLN	L	100	-8.712	21.028	-23.912	1.00	37.51	L	C
ATOM	4905	OE1	GLN	L	100	-8.510	21.628	-22.842	1.00	37.83	L	O
ATOM	4906	NE2	GLN	L	100	-9.580	21.444	-24.812	1.00	39.58	L	N
ATOM	4909	C	GLN	L	100	-5.094	18.907	-21.904	1.00	34.99	L	C
ATOM	4910	O	GLN	L	100	-4.342	18.144	-22.502	1.00	38.49	L	O
ATOM	4912	N	GLY	L	101	-4.704	19.682	-20.892	1.00	35.27	L	N
ATOM	4913	CA	GLY	L	101	-3.352	19.677	-20.347	1.00	33.36	L	C
ATOM	4916	C	GLY	L	101	-2.480	20.812	-20.860	1.00	32.02	L	C
ATOM	4917	O	GLY	L	101	-2.653	21.301	-21.990	1.00	32.46	L	O
ATOM	4919	N	THR	L	102	-1.534	21.224	-20.017	1.00	33.10	L	N
ATOM	4920	CA	THR	L	102	-0.523	22.221	-20.364	1.00	31.76	L	C
ATOM	4922	CB	THR	L	102	-0.774	23.550	-19.684	1.00	32.01	L	C
ATOM	4924	OG1	THR	L	102	-2.075	24.016	-20.055	1.00	29.74	L	O
ATOM	4926	CG2	THR	L	102	0.283	24.616	-20.123	1.00	33.61	L	C
ATOM	4930	C	THR	L	102	0.856	21.707	-19.971	1.00	32.55	L	C
ATOM	4931	O	THR	L	102	1.148	21.511	-18.772	1.00	25.95	L	O
ATOM	4933	N	LYS	L	103	1.703	21.510	-20.987	1.00	30.82	L	N
ATOM	4934	CA	LYS	L	103	3.071	21.110	-20.758	1.00	33.32	L	C
ATOM	4936	CB	LYS	L	103	3.622	20.378	-21.982	1.00	36.36	L	C
ATOM	4939	CG	LYS	L	103	4.859	19.569	-21.667	1.00	37.25	L	C
ATOM	4942	CD	LYS	L	103	5.485	18.977	-22.919	1.00	40.83	L	C
ATOM	4945	CE	LYS	L	103	6.790	18.312	-22.573	1.00	40.62	L	C
ATOM	4948	NZ	LYS	L	103	6.886	17.001	-23.221	1.00	51.38	L	N
ATOM	4952	C	LYS	L	103	3.956	22.328	-20.415	1.00	34.87	L	C
ATOM	4953	O	LYS	L	103	4.014	23.279	-21.176	1.00	36.58	L	O
ATOM	4955	N	VAL	L	104	4.647	22.264	-19.271	1.00	36.48	L	N
ATOM	4956	CA	VAL	L	104	5.451	23.361	-18.713	1.00	32.34	L	C
ATOM	4958	CB	VAL	L	104	5.065	23.658	-17.231	1.00	28.05	L	C
ATOM	4960	CG1	VAL	L	104	6.053	24.597	-16.572	1.00	24.79	L	C
ATOM	4964	CG2	VAL	L	104	3.662	24.249	-17.126	1.00	20.70	L	C
ATOM	4968	C	VAL	L	104	6.933	22.993	-18.750	1.00	39.89	L	C
ATOM	4969	O	VAL	L	104	7.379	22.084	-18.038	1.00	37.02	L	O
ATOM	4971	N	GLU	L	105	7.698	23.712	-19.573	1.00	41.15	L	N
ATOM	4972	CA	GLU	L	105	9.116	23.459	-19.709	1.00	45.11	L	C
ATOM	4974	CB	GLU	L	105	9.462	23.286	-21.183	1.00	49.93	L	C
ATOM	4977	CG	GLU	L	105	8.630	22.192	-21.888	1.00	58.13	L	C
ATOM	4980	CD	GLU	L	105	8.392	22.487	-23.372	1.00	61.44	L	C
ATOM	4981	OE1	GLU	L	105	7.538	23.361	-23.686	1.00	65.02	L	O
ATOM	4982	OE2	GLU	L	105	9.059	21.839	-24.213	1.00	64.55	L	O
ATOM	4983	C	GLU	L	105	9.916	24.598	-19.068	1.00	43.16	L	C
ATOM	4984	O	GLU	L	105	9.396	25.707	-18.896	1.00	37.56	L	O
ATOM	4986	N	ILE	L	106	11.165	24.313	-18.688	1.00	45.85	L	N
ATOM	4987	CA	ILE	L	106	12.065	25.340	-18.150	1.00	48.75	L	C
ATOM	4989	CB	ILE	L	106	12.860	24.870	-16.901	1.00	51.14	L	C
ATOM	4991	CG1	ILE	L	106	11.939	24.748	-15.696	1.00	55.39	L	C
ATOM	4994	CD1	ILE	L	106	12.402	25.581	-14.502	1.00	58.23	L	C
ATOM	4998	CG2	ILE	L	106	13.998	25.874	-16.558	1.00	48.65	L	C
ATOM	5002	C	ILE	L	106	13.070	25.834	-19.183	1.00	48.57	L	C
ATOM	5003	O	ILE	L	106	13.790	25.040	-19.785	1.00	44.66	L	O
ATOM	5005	N	LYS	L	107	13.114	27.153	-19.367	1.00	50.80	L	N

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ATOM	5006	CA	LYS	L	107	14.147	27.805	-20.162	1.00	52.40	L	C
ATOM	5008	CB	LYS	L	107	13.652	29.136	-20.752	1.00	54.16	L	C
ATOM	5011	CG	LYS	L	107	14.173	29.429	-22.164	1.00	59.91	L	C
ATOM	5014	CD	LYS	L	107	14.636	30.877	-22.393	1.00	62.28	L	C
ATOM	5017	CE	LYS	L	107	13.727	31.924	-21.728	1.00	68.64	L	C
ATOM	5020	NZ	LYS	L	107	13.954	33.300	-22.291	1.00	68.03	L	N
ATOM	5024	C	LYS	L	107	15.354	28.053	-19.258	1.00	50.89	L	C
ATOM	5025	O	LYS	L	107	15.250	28.747	-18.238	1.00	49.97	L	O
ATOM	5027	N	ARG	L	108	16.495	27.483	-19.637	1.00	49.65	L	N
ATOM	5028	CA	ARG	L	108	17.732	27.643	-18.882	1.00	48.16	L	C
ATOM	5030	CB	ARG	L	108	18.054	26.367	-18.097	1.00	41.15	L	C
ATOM	5033	CG	ARG	L	108	18.236	25.150	-18.960	1.00	43.03	L	C
ATOM	5036	CD	ARG	L	108	19.243	24.192	-18.375	1.00	46.09	L	C
ATOM	5039	NE	ARG	L	108	20.598	24.731	-18.431	1.00	46.72	L	N
ATOM	5041	CZ	ARG	L	108	21.637	24.223	-17.773	1.00	45.70	L	C
ATOM	5042	NH1	ARG	L	108	21.492	23.165	-16.995	1.00	44.56	L	N
ATOM	5045	NH2	ARG	L	108	22.824	24.801	-17.874	1.00	44.13	L	N
ATOM	5048	C	ARG	L	108	18.879	28.031	-19.823	1.00	48.29	L	C
ATOM	5049	O	ARG	L	108	18.696	28.125	-21.039	1.00	47.79	L	O
ATOM	5051	N	THR	L	109	20.058	28.265	-19.263	1.00	48.42	L	N
ATOM	5052	CA	THR	L	109	21.216	28.611	-20.088	1.00	48.51	L	C
ATOM	5054	CB	THR	L	109	22.426	29.092	-19.256	1.00	44.23	L	C
ATOM	5056	OG1	THR	L	109	22.970	28.001	-18.508	1.00	45.71	L	O
ATOM	5058	CG2	THR	L	109	22.003	30.188	-18.304	1.00	39.23	L	C
ATOM	5062	C	THR	L	109	21.581	27.419	-20.970	1.00	48.83	L	C
ATOM	5063	O	THR	L	109	21.272	26.280	-20.648	1.00	51.87	L	O
ATOM	5065	N	VAL	L	110	22.210	27.707	-22.101	1.00	49.67	L	N
ATOM	5066	CA	VAL	L	110	22.637	26.680	-23.052	1.00	45.76	L	C
ATOM	5068	CB	VAL	L	110	23.183	27.311	-24.344	1.00	44.22	L	C
ATOM	5070	CG1	VAL	L	110	22.069	28.066	-25.052	1.00	43.40	L	C
ATOM	5074	CG2	VAL	L	110	23.794	26.260	-25.251	1.00	44.62	L	C
ATOM	5078	C	VAL	L	110	23.712	25.806	-22.420	1.00	42.26	L	C
ATOM	5079	O	VAL	L	110	24.674	26.313	-21.873	1.00	40.90	L	O
ATOM	5081	N	ALA	L	111	23.525	24.492	-22.488	1.00	45.41	L	N
ATOM	5082	CA	ALA	L	111	24.533	23.513	-22.029	1.00	44.60	L	C
ATOM	5084	CB	ALA	L	111	24.001	22.710	-20.829	1.00	39.41	L	C
ATOM	5088	C	ALA	L	111	24.926	22.577	-23.179	1.00	43.11	L	C
ATOM	5089	O	ALA	L	111	24.078	22.031	-23.871	1.00	40.94	L	O
ATOM	5091	N	ALA	L	112	26.220	22.427	-23.412	1.00	49.15	L	N
ATOM	5092	CA	ALA	L	112	26.699	21.573	-24.496	1.00	50.08	L	C
ATOM	5094	CB	ALA	L	112	28.151	21.901	-24.864	1.00	42.07	L	C
ATOM	5098	C	ALA	L	112	26.569	20.135	-24.027	1.00	49.38	L	C
ATOM	5099	O	ALA	L	112	26.734	19.877	-22.835	1.00	51.49	L	O
ATOM	5101	N	PRO	L	113	26.225	19.210	-24.942	1.00	48.90	L	N
ATOM	5102	CA	PRO	L	113	26.176	17.794	-24.583	1.00	48.42	L	C
ATOM	5104	CB	PRO	L	113	25.516	17.144	-25.804	1.00	50.58	L	C
ATOM	5107	CG	PRO	L	113	25.887	18.032	-26.932	1.00	49.33	L	C
ATOM	5110	CD	PRO	L	113	25.848	19.421	-26.348	1.00	47.65	L	C
ATOM	5113	C	PRO	L	113	27.565	17.194	-24.383	1.00	47.12	L	C
ATOM	5114	O	PRO	L	113	28.517	17.573	-25.065	1.00	45.30	L	O
ATOM	5115	N	SER	L	114	27.664	16.266	-23.448	1.00	46.42	L	N
ATOM	5116	CA	SER	L	114	28.854	15.456	-23.285	1.00	45.98	L	C
ATOM	5118	CB	SER	L	114	29.108	15.207	-21.792	1.00	47.17	L	C
ATOM	5121	OG	SER	L	114	30.341	14.564	-21.535	1.00	50.15	L	O
ATOM	5123	C	SER	L	114	28.559	14.175	-24.056	1.00	46.68	L	C
ATOM	5124	O	SER	L	114	27.543	13.531	-23.815	1.00	50.95	L	O
ATOM	5126	N	VAL	L	115	29.430	13.813	-24.993	1.00	46.24	L	N
ATOM	5127	CA	VAL	L	115	29.102	12.798	-25.997	1.00	44.53	L	C
ATOM	5129	CB	VAL	L	115	29.272	13.341	-27.448	1.00	40.93	L	C
ATOM	5131	CG1	VAL	L	115	28.894	12.287	-28.489	1.00	33.23	L	C
ATOM	5135	CG2	VAL	L	115	28.409	14.569	-27.634	1.00	39.80	L	C
ATOM	5139	C	VAL	L	115	29.917	11.527	-25.796	1.00	43.05	L	C
ATOM	5140	O	VAL	L	115	31.118	11.588	-25.573	1.00	42.76	L	O
ATOM	5142	N	PHE	L	116	29.225	10.381	-25.841	1.00	44.42	L	N
ATOM	5143	CA	PHE	L	116	29.825	9.061	-25.619	1.00	44.79	L	C
ATOM	5145	CB	PHE	L	116	29.431	8.467	-24.274	1.00	41.39	L	C
ATOM	5148	CG	PHE	L	116	29.624	9.381	-23.111	1.00	42.46	L	C
ATOM	5149	CD1	PHE	L	116	30.703	9.238	-22.281	1.00	42.31	L	C

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ATOM	5151	CE1	PHE	L	116	30.867	10.046	-21.185	1.00	44.16	L	C
ATOM	5153	CZ	PHE	L	116	29.927	11.008	-20.901	1.00	45.07	L	C
ATOM	5155	CE2	PHE	L	116	28.830	11.162	-21.718	1.00	42.29	L	C
ATOM	5157	CD2	PHE	L	116	28.682	10.352	-22.809	1.00	45.73	L	C
ATOM	5159	C	PHE	L	116	29.380	8.081	-26.713	1.00	44.65	L	C
ATOM	5160	O	PHE	L	116	28.295	8.205	-27.273	1.00	43.63	L	O
ATOM	5162	N	ILE	L	117	30.231	7.101	-26.993	1.00	42.86	L	N
ATOM	5163	CA	ILE	L	117	29.949	6.122	-28.022	1.00	43.67	L	C
ATOM	5165	CB	ILE	L	117	30.688	6.415	-29.357	1.00	40.91	L	C
ATOM	5167	CG1	ILE	L	117	30.113	5.526	-30.474	1.00	40.94	L	C
ATOM	5170	CD1	ILE	L	117	30.491	5.978	-31.891	1.00	39.69	L	C
ATOM	5174	CG2	ILE	L	117	32.242	6.329	-29.196	1.00	27.30	L	C
ATOM	5178	C	ILE	L	117	30.266	4.757	-27.456	1.00	42.84	L	C
ATOM	5179	O	ILE	L	117	31.229	4.598	-26.705	1.00	42.49	L	O
ATOM	5181	N	PHE	L	118	29.375	3.805	-27.742	1.00	42.14	L	N
ATOM	5182	CA	PHE	L	118	29.466	2.457	-27.229	1.00	42.81	L	C
ATOM	5184	CB	PHE	L	118	28.313	2.164	-26.284	1.00	36.27	L	C
ATOM	5187	CG	PHE	L	118	28.302	3.019	-25.058	1.00	35.72	L	C
ATOM	5188	CD1	PHE	L	118	29.089	2.681	-23.953	1.00	33.49	L	C
ATOM	5190	CE1	PHE	L	118	29.075	3.445	-22.811	1.00	33.92	L	C
ATOM	5192	CZ	PHE	L	118	28.248	4.574	-22.754	1.00	34.24	L	C
ATOM	5194	CE2	PHE	L	118	27.453	4.902	-23.832	1.00	32.94	L	C
ATOM	5196	CD2	PHE	L	118	27.498	4.135	-24.994	1.00	27.53	L	C
ATOM	5198	C	PHE	L	118	29.397	1.505	-28.402	1.00	47.09	L	C
ATOM	5199	O	PHE	L	118	28.371	1.474	-29.115	1.00	43.53	L	O
ATOM	5201	N	PRO	L	119	30.490	0.732	-28.614	1.00	48.49	L	N
ATOM	5202	CA	PRO	L	119	30.456	-0.325	-29.619	1.00	47.48	L	C
ATOM	5204	CB	PRO	L	119	31.925	-0.790	-29.700	1.00	46.56	L	C
ATOM	5207	CG	PRO	L	119	32.728	0.300	-29.006	1.00	43.77	L	C
ATOM	5210	CD	PRO	L	119	31.804	0.816	-27.952	1.00	41.04	L	C
ATOM	5213	C	PRO	L	119	29.523	-1.459	-29.191	1.00	47.07	L	C
ATOM	5214	O	PRO	L	119	29.155	-1.540	-28.006	1.00	49.41	L	O
ATOM	5215	N	PRO	L	120	29.145	-2.327	-30.146	1.00	47.38	L	N
ATOM	5216	CA	PRO	L	120	28.343	-3.497	-29.835	1.00	48.65	L	C
ATOM	5218	CB	PRO	L	120	28.209	-4.208	-31.179	1.00	48.59	L	C
ATOM	5221	CG	PRO	L	120	28.614	-3.250	-32.196	1.00	47.84	L	C
ATOM	5224	CD	PRO	L	120	29.516	-2.267	-31.566	1.00	47.24	L	C
ATOM	5227	C	PRO	L	120	29.111	-4.390	-28.875	1.00	52.75	L	C
ATOM	5228	O	PRO	L	120	30.349	-4.490	-28.966	1.00	54.01	L	O
ATOM	5229	N	SER	L	121	28.381	-5.028	-27.969	1.00	54.84	L	N
ATOM	5230	CA	SER	L	121	28.946	-5.994	-27.052	1.00	51.57	L	C
ATOM	5232	CB	SER	L	121	27.917	-6.338	-25.989	1.00	45.76	L	C
ATOM	5235	OG	SER	L	121	26.928	-7.169	-26.567	1.00	43.98	L	O
ATOM	5237	C	SER	L	121	29.294	-7.268	-27.823	1.00	54.60	L	C
ATOM	5238	O	SER	L	121	28.665	-7.592	-28.839	1.00	55.02	L	O
ATOM	5240	N	ASP	L	122	30.269	-8.013	-27.313	1.00	55.44	L	N
ATOM	5241	CA	ASP	L	122	30.597	-9.311	-27.885	1.00	57.29	L	C
ATOM	5243	CB	ASP	L	122	31.803	-9.924	-27.178	1.00	62.63	L	C
ATOM	5246	CG	ASP	L	122	33.126	-9.323	-27.645	1.00	66.05	L	C
ATOM	5247	OD1	ASP	L	122	33.209	-8.835	-28.812	1.00	56.75	L	O
ATOM	5248	OD2	ASP	L	122	34.080	-9.360	-26.825	1.00	69.49	L	O
ATOM	5249	C	ASP	L	122	29.406	-10.267	-27.839	1.00	55.89	L	C
ATOM	5250	O	ASP	L	122	29.158	-10.996	-28.811	1.00	56.55	L	O
ATOM	5252	N	GLU	L	123	28.652	-10.241	-26.740	1.00	55.51	L	N
ATOM	5253	CA	GLU	L	123	27.454	-11.080	-26.620	1.00	58.05	L	C
ATOM	5255	CB	GLU	L	123	26.807	-10.913	-25.238	1.00	57.58	L	C
ATOM	5258	CG	GLU	L	123	25.599	-11.821	-25.002	1.00	62.56	L	C
ATOM	5261	CD	GLU	L	123	24.826	-11.491	-23.725	1.00	65.05	L	C
ATOM	5262	OE1	GLU	L	123	25.403	-10.852	-22.814	1.00	68.23	L	O
ATOM	5263	OE2	GLU	L	123	23.638	-11.878	-23.646	1.00	63.42	L	O
ATOM	5264	C	GLU	L	123	26.411	-10.796	-27.692	1.00	55.53	L	C
ATOM	5265	O	GLU	L	123	25.734	-11.703	-28.147	1.00	57.43	L	O
ATOM	5267	N	GLN	L	124	26.266	-9.540	-28.095	1.00	53.06	L	N
ATOM	5268	CA	GLN	L	124	25.225	-9.207	-29.056	1.00	53.49	L	C
ATOM	5270	CB	GLN	L	124	24.923	-7.707	-29.054	1.00	46.17	L	C
ATOM	5273	CG	GLN	L	124	23.737	-7.345	-29.902	1.00	40.01	L	C
ATOM	5276	CD	GLN	L	124	23.614	-5.867	-30.189	1.00	43.65	L	C
ATOM	5277	OE1	GLN	L	124	24.439	-5.037	-29.749	1.00	43.56	L	O

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ATOM	5278	NE2	GLN	L	124	22.577	-5.520	-30.946	1.00	36.12	L	N
ATOM	5281	C	GLN	L	124	25.616	-9.664	-30.450	1.00	54.05	L	C
ATOM	5282	O	GLN	L	124	24.775	-10.160	-31.200	1.00	54.97	L	O
ATOM	5284	N	LEU	L	125	26.885	-9.473	-30.799	1.00	59.71	L	N
ATOM	5285	CA	LEU	L	125	27.423	-9.975	-32.071	1.00	61.94	L	C
ATOM	5287	CB	LEU	L	125	28.944	-9.758	-32.168	1.00	61.02	L	C
ATOM	5290	CG	LEU	L	125	29.597	-8.411	-32.536	1.00	58.93	L	C
ATOM	5292	CD1	LEU	L	125	28.893	-7.659	-33.665	1.00	56.16	L	C
ATOM	5296	CD2	LEU	L	125	29.707	-7.560	-31.324	1.00	59.33	L	C
ATOM	5300	C	LEU	L	125	27.093	-11.468	-32.262	1.00	62.78	L	C
ATOM	5301	O	LEU	L	125	26.715	-11.883	-33.362	1.00	61.32	L	O
ATOM	5303	N	LYS	L	126	27.229	-12.245	-31.183	1.00	67.75	L	N
ATOM	5304	CA	LYS	L	126	26.823	-13.663	-31.145	1.00	72.81	L	C
ATOM	5306	CB	LYS	L	126	26.790	-14.142	-29.686	1.00	77.09	L	C
ATOM	5309	CG	LYS	L	126	27.284	-15.559	-29.465	1.00	81.38	L	C
ATOM	5312	CD	LYS	L	126	27.600	-15.802	-27.992	1.00	81.19	L	C
ATOM	5315	CE	LYS	L	126	28.899	-15.113	-27.556	1.00	84.36	L	C
ATOM	5318	NZ	LYS	L	126	28.812	-14.602	-26.144	1.00	84.63	L	N
ATOM	5322	C	LYS	L	126	25.450	-13.900	-31.790	1.00	74.90	L	C
ATOM	5323	O	LYS	L	126	25.304	-14.750	-32.670	1.00	75.61	L	O
ATOM	5325	N	SER	L	127	24.457	-13.121	-31.358	1.00	75.07	L	N
ATOM	5326	CA	SER	L	127	23.070	-13.268	-31.814	1.00	70.26	L	C
ATOM	5328	CB	SER	L	127	22.109	-12.501	-30.881	1.00	72.18	L	C
ATOM	5331	OG	SER	L	127	22.146	-11.098	-31.089	1.00	71.13	L	O
ATOM	5333	C	SER	L	127	22.838	-12.862	-33.281	1.00	69.16	L	C
ATOM	5334	O	SER	L	127	21.757	-13.114	-33.821	1.00	68.65	L	O
ATOM	5336	N	GLY	L	128	23.831	-12.237	-33.918	1.00	67.14	L	N
ATOM	5337	CA	GLY	L	128	23.752	-11.907	-35.346	1.00	65.59	L	C
ATOM	5340	C	GLY	L	128	23.413	-10.463	-35.679	1.00	66.30	L	C
ATOM	5341	O	GLY	L	128	23.073	-10.140	-36.828	1.00	63.42	L	O
ATOM	5343	N	THR	L	129	23.524	-9.583	-34.684	1.00	66.28	L	N
ATOM	5344	CA	THR	L	129	23.211	-8.161	-34.868	1.00	62.18	L	C
ATOM	5346	CB	THR	L	129	21.729	-7.884	-34.465	1.00	66.25	L	C
ATOM	5348	OG1	THR	L	129	21.354	-6.550	-34.856	1.00	64.76	L	O
ATOM	5350	CG2	THR	L	129	21.512	-8.099	-32.957	1.00	69.40	L	C
ATOM	5354	C	THR	L	129	24.184	-7.253	-34.094	1.00	56.00	L	C
ATOM	5355	O	THR	L	129	24.731	-7.650	-33.064	1.00	55.01	L	O
ATOM	5357	N	ALA	L	130	24.415	-6.048	-34.612	1.00	52.96	L	N
ATOM	5358	CA	ALA	L	130	25.257	-5.053	-33.939	1.00	49.66	L	C
ATOM	5360	CB	ALA	L	130	26.514	-4.827	-34.716	1.00	38.29	L	C
ATOM	5364	C	ALA	L	130	24.519	-3.726	-33.742	1.00	48.82	L	C
ATOM	5365	O	ALA	L	130	24.135	-3.069	-34.713	1.00	50.68	L	O
ATOM	5367	N	SER	L	131	24.324	-3.342	-32.480	1.00	47.22	L	N
ATOM	5368	CA	SER	L	131	23.850	-2.003	-32.121	1.00	44.47	L	C
ATOM	5370	CB	SER	L	131	22.782	-2.119	-31.036	1.00	43.25	L	C
ATOM	5373	OG	SER	L	131	21.736	-2.972	-31.473	1.00	43.16	L	O
ATOM	5375	C	SER	L	131	25.013	-1.100	-31.639	1.00	39.04	L	C
ATOM	5376	O	SER	L	131	25.675	-1.404	-30.652	1.00	39.98	L	O
ATOM	5378	N	VAL	L	132	25.231	0.017	-32.327	1.00	39.66	L	N
ATOM	5379	CA	VAL	L	132	26.186	1.051	-31.892	1.00	41.48	L	C
ATOM	5381	CB	VAL	L	132	27.033	1.548	-33.098	1.00	37.21	L	C
ATOM	5383	CG1	VAL	L	132	28.282	2.316	-32.640	1.00	31.30	L	C
ATOM	5387	CG2	VAL	L	132	27.411	0.363	-33.991	1.00	36.43	L	C
ATOM	5391	C	VAL	L	132	25.398	2.223	-31.259	1.00	43.23	L	C
ATOM	5392	O	VAL	L	132	24.507	2.803	-31.900	1.00	38.42	L	O
ATOM	5394	N	VAL	L	133	25.715	2.552	-30.004	1.00	43.19	L	N
ATOM	5395	CA	VAL	L	133	24.970	3.572	-29.255	1.00	40.97	L	C
ATOM	5397	CB	VAL	L	133	24.552	3.054	-27.866	1.00	34.05	L	C
ATOM	5399	CG1	VAL	L	133	23.810	4.145	-27.078	1.00	29.07	L	C
ATOM	5403	CG2	VAL	L	133	23.711	1.741	-27.996	1.00	31.84	L	C
ATOM	5407	C	VAL	L	133	25.760	4.890	-29.075	1.00	43.99	L	C
ATOM	5408	O	VAL	L	133	26.914	4.905	-28.641	1.00	40.46	L	O
ATOM	5410	N	CYS	L	134	25.109	5.997	-29.413	1.00	46.83	L	N
ATOM	5411	CA	CYS	L	134	25.649	7.312	-29.147	1.00	43.96	L	C
ATOM	5413	CB	CYS	L	134	25.619	8.173	-30.407	1.00	46.90	L	C
ATOM	5416	SG	CYS	L	134	26.836	9.491	-30.377	1.00	51.58	L	S
ATOM	5418	C	CYS	L	134	24.846	7.999	-28.053	1.00	42.57	L	C
ATOM	5419	O	CYS	L	134	23.651	8.191	-28.187	1.00	40.87	L	O

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ATOM	5421	N	LEU	L	135	25.523	8.387	-26.981	1.00	40.87	L	N
ATOM	5422	CA	LEU	L	135	24.883	9.086	-25.877	1.00	41.05	L	C
ATOM	5424	CB	LEU	L	135	25.262	8.422	-24.536	1.00	41.94	L	C
ATOM	5427	CG	LEU	L	135	24.945	9.147	-23.222	1.00	37.54	L	C
ATOM	5429	CD1	LEU	L	135	23.430	9.259	-23.035	1.00	36.05	L	C
ATOM	5433	CD2	LEU	L	135	25.633	8.466	-22.027	1.00	36.10	L	C
ATOM	5437	C	LEU	L	135	25.283	10.560	-25.881	1.00	43.54	L	C
ATOM	5438	O	LEU	L	135	26.452	10.887	-25.746	1.00	41.08	L	O
ATOM	5440	N	LEU	L	136	24.290	11.431	-26.044	1.00	45.15	L	N
ATOM	5441	CA	LEU	L	136	24.424	12.867	-25.799	1.00	40.22	L	C
ATOM	5443	CB	LEU	L	136	23.646	13.667	-26.834	1.00	40.10	L	C
ATOM	5446	CG	LEU	L	136	24.119	13.798	-28.277	1.00	35.38	L	C
ATOM	5448	CD1	LEU	L	136	24.446	12.459	-28.931	1.00	32.90	L	C
ATOM	5452	CD2	LEU	L	136	23.008	14.541	-29.013	1.00	36.16	L	C
ATOM	5456	C	LEU	L	136	23.829	13.178	-24.429	1.00	42.61	L	C
ATOM	5457	O	LEU	L	136	22.621	13.158	-24.255	1.00	44.03	L	O
ATOM	5459	N	ASN	L	137	24.686	13.502	-23.471	1.00	43.60	L	N
ATOM	5460	CA	ASN	L	137	24.285	13.628	-22.087	1.00	41.98	L	C
ATOM	5462	CB	ASN	L	137	25.267	12.855	-21.188	1.00	41.33	L	C
ATOM	5465	CG	ASN	L	137	24.584	12.241	-19.997	1.00	37.11	L	C
ATOM	5466	OD1	ASN	L	137	23.409	11.912	-20.064	1.00	34.55	L	O
ATOM	5467	ND2	ASN	L	137	25.305	12.097	-18.899	1.00	39.60	L	N
ATOM	5470	C	ASN	L	137	24.189	15.067	-21.590	1.00	43.36	L	C
ATOM	5471	O	ASN	L	137	25.118	15.857	-21.772	1.00	42.54	L	O
ATOM	5473	N	ASN	L	138	23.065	15.368	-20.929	1.00	45.15	L	N
ATOM	5474	CA	ASN	L	138	22.876	16.602	-20.161	1.00	42.87	L	C
ATOM	5476	CB	ASN	L	138	23.761	16.556	-18.915	1.00	39.48	L	C
ATOM	5479	CG	ASN	L	138	23.332	15.462	-17.940	1.00	43.15	L	C
ATOM	5480	OD1	ASN	L	138	22.238	14.888	-18.049	1.00	45.64	L	O
ATOM	5481	ND2	ASN	L	138	24.192	15.162	-16.996	1.00	43.41	L	N
ATOM	5484	C	ASN	L	138	23.079	17.900	-20.949	1.00	42.30	L	C
ATOM	5485	O	ASN	L	138	23.943	18.723	-20.614	1.00	43.40	L	O
ATOM	5487	N	PHE	L	139	22.268	18.071	-21.993	1.00	39.73	L	N
ATOM	5488	CA	PHE	L	139	22.313	19.264	-22.840	1.00	41.08	L	C
ATOM	5490	CB	PHE	L	139	22.617	18.891	-24.289	1.00	35.82	L	C
ATOM	5493	CG	PHE	L	139	21.582	18.004	-24.945	1.00	34.55	L	C
ATOM	5494	CD1	PHE	L	139	20.537	18.550	-25.657	1.00	38.43	L	C
ATOM	5496	CE1	PHE	L	139	19.600	17.743	-26.314	1.00	36.03	L	C
ATOM	5498	CZ	PHE	L	139	19.707	16.385	-26.246	1.00	37.97	L	C
ATOM	5500	CE2	PHE	L	139	20.750	15.817	-25.541	1.00	36.18	L	C
ATOM	5502	CD2	PHE	L	139	21.686	16.631	-24.899	1.00	36.90	L	C
ATOM	5504	C	PHE	L	139	21.031	20.104	-22.780	1.00	42.49	L	C
ATOM	5505	O	PHE	L	139	19.963	19.629	-22.373	1.00	42.55	L	O
ATOM	5507	N	TYR	L	140	21.165	21.364	-23.165	1.00	43.46	L	N
ATOM	5508	CA	TYR	L	140	20.036	22.258	-23.318	1.00	41.30	L	C
ATOM	5510	CB	TYR	L	140	19.703	22.958	-21.985	1.00	42.20	L	C
ATOM	5513	CG	TYR	L	140	18.472	23.803	-22.147	1.00	43.03	L	C
ATOM	5514	CD1	TYR	L	140	17.226	23.268	-21.914	1.00	40.82	L	C
ATOM	5516	CE1	TYR	L	140	16.093	24.004	-22.106	1.00	43.23	L	C
ATOM	5518	CZ	TYR	L	140	16.183	25.295	-22.588	1.00	42.52	L	C
ATOM	5519	OH	TYR	L	140	15.028	26.004	-22.788	1.00	42.38	L	O
ATOM	5521	CE2	TYR	L	140	17.409	25.854	-22.869	1.00	44.15	L	C
ATOM	5523	CD2	TYR	L	140	18.552	25.101	-22.665	1.00	44.84	L	C
ATOM	5525	C	TYR	L	140	20.393	23.284	-24.390	1.00	40.33	L	C
ATOM	5526	O	TYR	L	140	21.489	23.826	-24.355	1.00	42.85	L	O
ATOM	5528	N	PRO	L	141	19.486	23.575	-25.340	1.00	44.05	L	N
ATOM	5529	CA	PRO	L	141	18.095	23.167	-25.539	1.00	47.12	L	C
ATOM	5531	CB	PRO	L	141	17.543	24.275	-26.431	1.00	44.96	L	C
ATOM	5534	CG	PRO	L	141	18.704	24.689	-27.258	1.00	46.12	L	C
ATOM	5537	CD	PRO	L	141	19.933	24.497	-26.401	1.00	45.97	L	C
ATOM	5540	C	PRO	L	141	17.905	21.770	-26.162	1.00	45.02	L	C
ATOM	5541	O	PRO	L	141	18.867	21.081	-26.424	1.00	45.97	L	O
ATOM	5542	N	ARG	L	142	16.656	21.371	-26.375	1.00	49.41	L	N
ATOM	5543	CA	ARG	L	142	16.302	19.997	-26.766	1.00	50.48	L	C
ATOM	5545	CB	ARG	L	142	14.785	19.805	-26.661	1.00	54.32	L	C
ATOM	5548	CG	ARG	L	142	14.323	18.368	-26.772	1.00	55.76	L	C
ATOM	5551	CD	ARG	L	142	12.895	18.211	-26.300	1.00	61.09	L	C
ATOM	5554	NE	ARG	L	142	12.358	16.886	-26.600	1.00	64.81	L	N

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ATOM	5556	CZ	ARG	L	142	11.940	16.492	-27.807	1.00	72.10	L	C
ATOM	5557	NH1	ARG	L	142	12.000	17.320	-28.850	1.00	75.18	L	N
ATOM	5560	NH2	ARG	L	142	11.457	15.259	-27.981	1.00	69.36	L	N
ATOM	5563	C	ARG	L	142	16.770	19.607	-28.163	1.00	50.69	L	C
ATOM	5564	O	ARG	L	142	17.037	18.437	-28.430	1.00	50.59	L	O
ATOM	5566	N	GLU	L	143	16.867	20.597	-29.045	1.00	52.13	L	N
ATOM	5567	CA	GLU	L	143	17.190	20.378	-30.442	1.00	50.78	L	C
ATOM	5569	CB	GLU	L	143	16.875	21.652	-31.240	1.00	54.86	L	C
ATOM	5572	CG	GLU	L	143	15.362	21.973	-31.371	1.00	59.99	L	C
ATOM	5575	CD	GLU	L	143	14.653	22.493	-30.079	1.00	61.27	L	C
ATOM	5576	OE1	GLU	L	143	15.254	23.218	-29.238	1.00	58.45	L	O
ATOM	5577	OE2	GLU	L	143	13.452	22.181	-29.936	1.00	62.39	L	O
ATOM	5578	C	GLU	L	143	18.665	19.969	-30.588	1.00	48.43	L	C
ATOM	5579	O	GLU	L	143	19.557	20.711	-30.196	1.00	47.86	L	O
ATOM	5581	N	ALA	L	144	18.887	18.771	-31.131	1.00	45.09	L	N
ATOM	5582	CA	ALA	L	144	20.218	18.218	-31.413	1.00	46.23	L	C
ATOM	5584	CB	ALA	L	144	20.705	17.346	-30.266	1.00	32.72	L	C
ATOM	5588	C	ALA	L	144	20.164	17.402	-32.704	1.00	44.67	L	C
ATOM	5589	O	ALA	L	144	19.132	16.876	-33.053	1.00	46.24	L	O
ATOM	5591	N	LYS	L	145	21.273	17.329	-33.425	1.00	49.37	L	N
ATOM	5592	CA	LYS	L	145	21.340	16.569	-34.672	1.00	50.82	L	C
ATOM	5594	CB	LYS	L	145	21.588	17.513	-35.855	1.00	53.42	L	C
ATOM	5597	CG	LYS	L	145	21.618	16.867	-37.263	1.00	54.31	L	C
ATOM	5600	CD	LYS	L	145	22.239	17.846	-38.281	1.00	56.75	L	C
ATOM	5603	CE	LYS	L	145	21.594	17.778	-39.672	1.00	58.62	L	C
ATOM	5606	NZ	LYS	L	145	21.928	18.988	-40.515	1.00	54.80	L	N
ATOM	5610	C	LYS	L	145	22.463	15.550	-34.509	1.00	47.66	L	C
ATOM	5611	O	LYS	L	145	23.571	15.903	-34.130	1.00	42.78	L	O
ATOM	5613	N	VAL	L	146	22.154	14.282	-34.755	1.00	50.97	L	N
ATOM	5614	CA	VAL	L	146	23.152	13.214	-34.701	1.00	52.66	L	C
ATOM	5616	CB	VAL	L	146	22.768	12.083	-33.691	1.00	48.03	L	C
ATOM	5618	CG1	VAL	L	146	23.940	11.123	-33.514	1.00	43.85	L	C
ATOM	5622	CG2	VAL	L	146	22.356	12.664	-32.358	1.00	44.75	L	C
ATOM	5626	C	VAL	L	146	23.299	12.598	-36.087	1.00	52.92	L	C
ATOM	5627	O	VAL	L	146	22.308	12.226	-36.694	1.00	55.42	L	O
ATOM	5629	N	GLN	L	147	24.528	12.491	-36.580	1.00	55.00	L	N
ATOM	5630	CA	GLN	L	147	24.786	11.920	-37.905	1.00	56.58	L	C
ATOM	5632	CB	GLN	L	147	25.313	12.968	-38.909	1.00	58.16	L	C
ATOM	5635	CG	GLN	L	147	24.273	14.041	-39.282	1.00	61.93	L	C
ATOM	5638	CD	GLN	L	147	24.629	14.858	-40.530	1.00	66.47	L	C
ATOM	5639	OE1	GLN	L	147	25.800	15.133	-40.825	1.00	68.94	L	O
ATOM	5640	NE2	GLN	L	147	23.602	15.255	-41.264	1.00	71.60	L	N
ATOM	5643	C	GLN	L	147	25.775	10.787	-37.749	1.00	55.22	L	C
ATOM	5644	O	GLN	L	147	26.789	10.919	-37.076	1.00	53.77	L	O
ATOM	5646	N	TRP	L	148	25.464	9.663	-38.368	1.00	53.28	L	N
ATOM	5647	CA	TRP	L	148	26.304	8.489	-38.273	1.00	52.81	L	C
ATOM	5649	CB	TRP	L	148	25.424	7.237	-38.072	1.00	45.07	L	C
ATOM	5652	CG	TRP	L	148	25.013	7.039	-36.663	1.00	41.91	L	C
ATOM	5653	CD1	TRP	L	148	23.828	7.399	-36.088	1.00	42.92	L	C
ATOM	5655	NE1	TRP	L	148	23.817	7.029	-34.764	1.00	42.81	L	N
ATOM	5657	CE2	TRP	L	148	25.013	6.437	-34.460	1.00	40.65	L	C
ATOM	5658	CD2	TRP	L	148	25.789	6.425	-35.633	1.00	40.26	L	C
ATOM	5659	CE3	TRP	L	148	27.067	5.854	-35.592	1.00	42.10	L	C
ATOM	5661	CZ3	TRP	L	148	27.519	5.333	-34.407	1.00	42.91	L	C
ATOM	5663	CH2	TRP	L	148	26.713	5.347	-33.255	1.00	43.17	L	C
ATOM	5665	CZ2	TRP	L	148	25.469	5.908	-33.263	1.00	43.30	L	C
ATOM	5667	C	TRP	L	148	27.194	8.339	-39.509	1.00	50.33	L	C
ATOM	5668	O	TRP	L	148	26.775	8.625	-40.619	1.00	47.50	L	O
ATOM	5670	N	LYS	L	149	28.430	7.901	-39.285	1.00	54.01	L	N
ATOM	5671	CA	LYS	L	149	29.364	7.592	-40.355	1.00	56.31	L	C
ATOM	5673	CB	LYS	L	149	30.438	8.674	-40.458	1.00	59.36	L	C
ATOM	5676	CG	LYS	L	149	29.940	9.965	-41.034	1.00	59.49	L	C
ATOM	5679	CD	LYS	L	149	31.087	10.842	-41.465	1.00	62.05	L	C
ATOM	5682	CE	LYS	L	149	30.583	12.037	-42.292	1.00	67.96	L	C
ATOM	5685	NZ	LYS	L	149	29.612	12.933	-41.563	1.00	70.23	L	N
ATOM	5689	C	LYS	L	149	30.042	6.249	-40.115	1.00	54.16	L	C
ATOM	5690	O	LYS	L	149	30.626	6.016	-39.057	1.00	51.78	L	O
ATOM	5692	N	VAL	L	150	29.970	5.384	-41.121	1.00	54.55	L	N

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ATOM	5693	CA	VAL	L	150	30.699	4.126	-41.129	1.00	55.08	L	C
ATOM	5695	CB	VAL	L	150	29.760	2.925	-41.382	1.00	44.90	L	C
ATOM	5697	CG1	VAL	L	150	30.548	1.622	-41.328	1.00	38.86	L	C
ATOM	5701	CG2	VAL	L	150	28.610	2.924	-40.368	1.00	34.81	L	C
ATOM	5705	C	VAL	L	150	31.749	4.196	-42.233	1.00	55.45	L	C
ATOM	5706	O	VAL	L	150	31.408	4.388	-43.404	1.00	54.59	L	O
ATOM	5708	N	ASP	L	151	33.019	4.024	-41.861	1.00	57.42	L	N
ATOM	5709	CA	ASP	L	151	34.149	4.285	-42.768	1.00	58.26	L	C
ATOM	5711	CB	ASP	L	151	34.315	3.158	-43.803	1.00	55.75	L	C
ATOM	5714	CG	ASP	L	151	34.854	1.869	-43.216	1.00	55.54	L	C
ATOM	5715	OD1	ASP	L	151	35.658	1.892	-42.258	1.00	50.93	L	O
ATOM	5716	OD2	ASP	L	151	34.485	0.810	-43.767	1.00	56.01	L	O
ATOM	5717	C	ASP	L	151	33.948	5.612	-43.518	1.00	57.64	L	C
ATOM	5718	O	ASP	L	151	34.154	5.690	-44.732	1.00	56.65	L	O
ATOM	5720	N	ASN	L	152	33.514	6.634	-42.788	1.00	58.24	L	N
ATOM	5721	CA	ASN	L	152	33.278	7.971	-43.338	1.00	59.46	L	C
ATOM	5723	CB	ASN	L	152	34.596	8.565	-43.856	1.00	63.45	L	C
ATOM	5726	CG	ASN	L	152	34.514	10.059	-44.080	1.00	65.32	L	C
ATOM	5727	OD1	ASN	L	152	34.105	10.822	-43.189	1.00	67.65	L	O
ATOM	5728	ND2	ASN	L	152	34.897	10.490	-45.277	1.00	67.08	L	N
ATOM	5731	C	ASN	L	152	32.195	8.067	-44.418	1.00	58.97	L	C
ATOM	5732	O	ASN	L	152	32.124	9.069	-45.128	1.00	60.52	L	O
ATOM	5734	N	ALA	L	153	31.360	7.036	-44.533	1.00	58.63	L	N
ATOM	5735	CA	ALA	L	153	30.174	7.063	-45.391	1.00	59.33	L	C
ATOM	5737	CB	ALA	L	153	29.989	5.720	-46.095	1.00	55.97	L	C
ATOM	5741	C	ALA	L	153	28.937	7.381	-44.549	1.00	60.75	L	C
ATOM	5742	O	ALA	L	153	28.531	6.572	-43.688	1.00	60.95	L	O
ATOM	5744	N	LEU	L	154	28.324	8.536	-44.817	1.00	57.65	L	N
ATOM	5745	CA	LEU	L	154	27.164	8.993	-44.043	1.00	57.10	L	C
ATOM	5747	CB	LEU	L	154	26.734	10.425	-44.414	1.00	60.28	L	C
ATOM	5750	CG	LEU	L	154	25.406	10.992	-43.836	1.00	64.48	L	C
ATOM	5752	CD1	LEU	L	154	25.195	10.804	-42.287	1.00	64.36	L	C
ATOM	5756	CD2	LEU	L	154	25.248	12.487	-44.204	1.00	60.40	L	C
ATOM	5760	C	LEU	L	154	25.989	8.018	-44.166	1.00	58.12	L	C
ATOM	5761	O	LEU	L	154	25.651	7.522	-45.253	1.00	55.93	L	O
ATOM	5763	N	GLN	L	155	25.381	7.731	-43.022	1.00	54.77	L	N
ATOM	5764	CA	GLN	L	155	24.334	6.741	-42.926	1.00	49.90	L	C
ATOM	5766	CB	GLN	L	155	24.475	5.979	-41.608	1.00	46.93	L	C
ATOM	5769	CG	GLN	L	155	25.736	5.204	-41.472	1.00	44.15	L	C
ATOM	5772	CD	GLN	L	155	25.902	4.192	-42.592	1.00	49.82	L	C
ATOM	5773	OE1	GLN	L	155	25.122	3.232	-42.710	1.00	47.02	L	O
ATOM	5774	NE2	GLN	L	155	26.911	4.413	-43.437	1.00	49.06	L	N
ATOM	5777	C	GLN	L	155	22.973	7.402	-42.972	1.00	48.25	L	C
ATOM	5778	O	GLN	L	155	22.804	8.514	-42.503	1.00	53.59	L	O
ATOM	5780	N	SER	L	156	21.997	6.717	-43.543	1.00	48.22	L	N
ATOM	5781	CA	SER	L	156	20.610	7.109	-43.350	1.00	51.35	L	C
ATOM	5783	CB	SER	L	156	20.107	8.107	-44.408	1.00	56.43	L	C
ATOM	5786	OG	SER	L	156	19.754	7.479	-45.629	1.00	60.18	L	O
ATOM	5788	C	SER	L	156	19.758	5.859	-43.306	1.00	48.34	L	C
ATOM	5789	O	SER	L	156	20.108	4.840	-43.900	1.00	48.12	L	O
ATOM	5791	N	GLY	L	157	18.677	5.935	-42.538	1.00	47.48	L	N
ATOM	5792	CA	GLY	L	157	17.661	4.880	-42.488	1.00	47.13	L	C
ATOM	5795	C	GLY	L	157	17.868	3.806	-41.445	1.00	46.38	L	C
ATOM	5796	O	GLY	L	157	16.932	3.082	-41.120	1.00	48.95	L	O
ATOM	5798	N	ASN	L	158	19.078	3.706	-40.904	1.00	45.80	L	N
ATOM	5799	CA	ASN	L	158	19.457	2.604	-40.010	1.00	46.35	L	C
ATOM	5801	CB	ASN	L	158	20.656	1.843	-40.600	1.00	46.18	L	C
ATOM	5804	CG	ASN	L	158	21.856	2.741	-40.868	1.00	47.83	L	C
ATOM	5805	OD1	ASN	L	158	21.825	3.941	-40.587	1.00	44.96	L	O
ATOM	5806	ND2	ASN	L	158	22.931	2.152	-41.406	1.00	48.89	L	N
ATOM	5809	C	ASN	L	158	19.767	3.049	-38.577	1.00	46.54	L	C
ATOM	5810	O	ASN	L	158	20.536	2.390	-37.856	1.00	44.76	L	O
ATOM	5812	N	SER	L	159	19.167	4.159	-38.163	1.00	47.13	L	N
ATOM	5813	CA	SER	L	159	19.371	4.698	-36.820	1.00	45.05	L	C
ATOM	5815	CB	SER	L	159	20.460	5.784	-36.818	1.00	45.81	L	C
ATOM	5818	OG	SER	L	159	20.039	6.947	-37.518	1.00	44.63	L	O
ATOM	5820	C	SER	L	159	18.069	5.259	-36.266	1.00	45.53	L	C
ATOM	5821	O	SER	L	159	17.188	5.657	-37.017	1.00	44.89	L	O

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ATOM	5823	N	GLN	L	160	17.965	5.263	-34.941	1.00	43.89	L	N
ATOM	5824	CA	GLN	L	160	16.784	5.723	-34.227	1.00	45.61	L	C
ATOM	5826	CB	GLN	L	160	15.902	4.531	-33.790	1.00	48.08	L	C
ATOM	5829	CG	GLN	L	160	14.876	4.082	-34.842	1.00	46.87	L	C
ATOM	5832	CD	GLN	L	160	13.954	2.985	-34.335	1.00	52.11	L	C
ATOM	5833	OE1	GLN	L	160	14.403	2.058	-33.653	1.00	59.14	L	O
ATOM	5834	NE2	GLN	L	160	12.660	3.064	-34.684	1.00	48.67	L	N
ATOM	5837	C	GLN	L	160	17.245	6.502	-33.006	1.00	43.43	L	C
ATOM	5838	O	GLN	L	160	18.210	6.107	-32.362	1.00	43.47	L	O
ATOM	5840	N	GLU	L	161	16.552	7.601	-32.698	1.00	45.17	L	N
ATOM	5841	CA	GLU	L	161	16.897	8.450	-31.556	1.00	47.01	L	C
ATOM	5843	CB	GLU	L	161	17.126	9.906	-31.982	1.00	51.76	L	C
ATOM	5846	CG	GLU	L	161	18.506	10.225	-32.587	1.00	59.99	L	C
ATOM	5849	CD	GLU	L	161	18.745	9.610	-33.986	1.00	65.42	L	C
ATOM	5850	OE1	GLU	L	161	17.810	9.604	-34.822	1.00	69.22	L	O
ATOM	5851	OE2	GLU	L	161	19.880	9.146	-34.256	1.00	60.47	L	O
ATOM	5852	C	GLU	L	161	15.813	8.368	-30.479	1.00	46.00	L	C
ATOM	5853	O	GLU	L	161	14.678	7.997	-30.755	1.00	42.86	L	O
ATOM	5855	N	SER	L	162	16.198	8.705	-29.251	1.00	45.10	L	N
ATOM	5856	CA	SER	L	162	15.298	8.748	-28.114	1.00	44.83	L	C
ATOM	5858	CB	SER	L	162	15.228	7.373	-27.451	1.00	46.27	L	C
ATOM	5861	OG	SER	L	162	14.185	7.274	-26.504	1.00	43.36	L	O
ATOM	5863	C	SER	L	162	15.799	9.795	-27.122	1.00	43.94	L	C
ATOM	5864	O	SER	L	162	16.966	9.769	-26.734	1.00	46.06	L	O
ATOM	5866	N	VAL	L	163	14.921	10.725	-26.725	1.00	43.34	L	N
ATOM	5867	CA	VAL	L	163	15.296	11.819	-25.824	1.00	41.68	L	C
ATOM	5869	CB	VAL	L	163	15.111	13.238	-26.477	1.00	44.89	L	C
ATOM	5871	CG1	VAL	L	163	13.646	13.562	-26.676	1.00	48.73	L	C
ATOM	5875	CG2	VAL	L	163	15.777	14.337	-25.627	1.00	38.36	L	C
ATOM	5879	C	VAL	L	163	14.526	11.717	-24.504	1.00	42.13	L	C
ATOM	5880	O	VAL	L	163	13.341	11.406	-24.485	1.00	44.76	L	O
ATOM	5882	N	THR	L	164	15.211	11.963	-23.393	1.00	44.51	L	N
ATOM	5883	CA	THR	L	164	14.553	11.976	-22.100	1.00	44.55	L	C
ATOM	5885	CB	THR	L	164	15.540	11.900	-20.934	1.00	44.16	L	C
ATOM	5887	OG1	THR	L	164	16.492	12.990	-21.014	1.00	38.19	L	O
ATOM	5889	CG2	THR	L	164	16.235	10.536	-20.925	1.00	43.45	L	C
ATOM	5893	C	THR	L	164	13.717	13.232	-21.915	1.00	47.76	L	C
ATOM	5894	O	THR	L	164	13.737	14.157	-22.727	1.00	50.86	L	O
ATOM	5896	N	GLU	L	165	12.960	13.248	-20.833	1.00	52.21	L	N
ATOM	5897	CA	GLU	L	165	12.254	14.451	-20.428	1.00	51.87	L	C
ATOM	5899	CB	GLU	L	165	11.068	14.119	-19.503	1.00	60.15	L	C
ATOM	5902	CG	GLU	L	165	9.868	13.437	-20.186	1.00	66.90	L	C
ATOM	5905	CD	GLU	L	165	9.178	14.306	-21.239	1.00	73.87	L	C
ATOM	5906	OE1	GLU	L	165	8.988	15.529	-21.004	1.00	79.27	L	O
ATOM	5907	OE2	GLU	L	165	8.812	13.754	-22.303	1.00	75.01	L	O
ATOM	5908	C	GLU	L	165	13.244	15.350	-19.698	1.00	50.07	L	C
ATOM	5909	O	GLU	L	165	14.286	14.901	-19.214	1.00	53.11	L	O
ATOM	5911	N	GLN	L	166	12.910	16.624	-19.626	1.00	45.02	L	N
ATOM	5912	CA	GLN	L	166	13.731	17.584	-18.914	1.00	45.55	L	C
ATOM	5914	CB	GLN	L	166	13.024	18.934	-18.865	1.00	42.82	L	C
ATOM	5917	CG	GLN	L	166	13.969	20.080	-18.793	1.00	43.85	L	C
ATOM	5920	CD	GLN	L	166	13.334	21.403	-19.131	1.00	40.52	L	C
ATOM	5921	OE1	GLN	L	166	12.109	21.538	-19.140	1.00	42.89	L	O
ATOM	5922	NE2	GLN	L	166	14.171	22.404	-19.380	1.00	33.65	L	N
ATOM	5925	C	GLN	L	166	14.019	17.099	-17.489	1.00	48.19	L	C
ATOM	5926	O	GLN	L	166	13.102	16.667	-16.771	1.00	49.10	L	O
ATOM	5928	N	ASP	L	167	15.287	17.158	-17.089	1.00	48.15	L	N
ATOM	5929	CA	ASP	L	167	15.687	16.704	-15.764	1.00	46.60	L	C
ATOM	5931	CB	ASP	L	167	17.209	16.587	-15.628	1.00	45.82	L	C
ATOM	5934	CG	ASP	L	167	17.652	16.256	-14.199	1.00	49.56	L	C
ATOM	5935	OD1	ASP	L	167	17.188	15.248	-13.635	1.00	56.20	L	O
ATOM	5936	OD2	ASP	L	167	18.470	17.003	-13.626	1.00	54.03	L	O
ATOM	5937	C	ASP	L	167	15.162	17.691	-14.739	1.00	48.59	L	C
ATOM	5938	O	ASP	L	167	15.280	18.906	-14.923	1.00	46.36	L	O
ATOM	5940	N	SER	L	168	14.621	17.146	-13.648	1.00	46.59	L	N
ATOM	5941	CA	SER	L	168	13.940	17.930	-12.624	1.00	45.21	L	C
ATOM	5943	CB	SER	L	168	13.069	17.020	-11.760	1.00	48.94	L	C
ATOM	5946	OG	SER	L	168	13.855	16.094	-11.027	1.00	57.06	L	O

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ATOM	5948	C	SER	L	168	14.882	18.721	-11.726	1.00	44.11	L	C
ATOM	5949	O	SER	L	168	14.425	19.514	-10.908	1.00	45.25	L	O
ATOM	5951	N	LYS	L	169	16.186	18.511	-11.864	1.00	47.10	L	N
ATOM	5952	CA	LYS	L	169	17.165	19.268	-11.091	1.00	49.10	L	C
ATOM	5954	CB	LYS	L	169	18.125	18.333	-10.345	1.00	55.10	L	C
ATOM	5957	CG	LYS	L	169	17.483	17.623	-9.161	1.00	57.75	L	C
ATOM	5960	CD	LYS	L	169	18.397	16.526	-8.637	1.00	58.16	L	C
ATOM	5963	CE	LYS	L	169	17.714	15.701	-7.561	1.00	59.90	L	C
ATOM	5966	NZ	LYS	L	169	18.703	14.778	-6.933	1.00	63.16	L	N
ATOM	5970	C	LYS	L	169	17.959	20.247	-11.947	1.00	43.78	L	C
ATOM	5971	O	LYS	L	169	18.130	21.390	-11.551	1.00	44.75	L	O
ATOM	5973	N	ASP	L	170	18.470	19.802	-13.097	1.00	44.05	L	N
ATOM	5974	CA	ASP	L	170	19.339	20.666	-13.927	1.00	44.32	L	C
ATOM	5976	CB	ASP	L	170	20.724	20.021	-14.167	1.00	47.00	L	C
ATOM	5979	CG	ASP	L	170	20.682	18.777	-15.046	1.00	46.20	L	C
ATOM	5980	OD1	ASP	L	170	19.688	18.527	-15.742	1.00	42.07	L	O
ATOM	5981	OD2	ASP	L	170	21.686	18.038	-15.053	1.00	52.35	L	O
ATOM	5982	C	ASP	L	170	18.673	21.160	-15.222	1.00	40.84	L	C
ATOM	5983	O	ASP	L	170	19.236	21.940	-15.956	1.00	41.42	L	O
ATOM	5985	N	SER	L	171	17.462	20.695	-15.464	1.00	37.12	L	N
ATOM	5986	CA	SER	L	171	16.625	21.125	-16.584	1.00	38.72	L	C
ATOM	5988	CB	SER	L	171	16.211	22.591	-16.401	1.00	39.12	L	C
ATOM	5991	OG	SER	L	171	15.678	22.775	-15.096	1.00	33.66	L	O
ATOM	5993	C	SER	L	171	17.214	20.822	-17.966	1.00	39.72	L	C
ATOM	5994	O	SER	L	171	16.866	21.476	-18.950	1.00	41.10	L	O
ATOM	5996	N	THR	L	172	18.055	19.783	-18.032	1.00	43.50	L	N
ATOM	5997	CA	THR	L	172	18.728	19.344	-19.266	1.00	39.90	L	C
ATOM	5999	CB	THR	L	172	20.180	18.920	-18.980	1.00	41.17	L	C
ATOM	6001	OG1	THR	L	172	20.184	17.842	-18.025	1.00	40.63	L	O
ATOM	6003	CG2	THR	L	172	21.025	20.095	-18.463	1.00	35.88	L	C
ATOM	6007	C	THR	L	172	18.052	18.122	-19.894	1.00	42.74	L	C
ATOM	6008	O	THR	L	172	17.285	17.416	-19.252	1.00	42.53	L	O
ATOM	6010	N	TYR	L	173	18.348	17.890	-21.167	1.00	42.60	L	N
ATOM	6011	CA	TYR	L	173	17.907	16.689	-21.856	1.00	40.56	L	C
ATOM	6013	CB	TYR	L	173	17.245	17.054	-23.187	1.00	44.80	L	C
ATOM	6016	CG	TYR	L	173	16.138	18.075	-23.038	1.00	45.06	L	C
ATOM	6017	CD1	TYR	L	173	14.864	17.677	-22.702	1.00	45.05	L	C
ATOM	6019	CE1	TYR	L	173	13.849	18.583	-22.532	1.00	45.91	L	C
ATOM	6021	CZ	TYR	L	173	14.073	19.917	-22.703	1.00	44.80	L	C
ATOM	6022	OH	TYR	L	173	13.001	20.768	-22.531	1.00	48.20	L	O
ATOM	6024	CE2	TYR	L	173	15.334	20.371	-23.049	1.00	47.48	L	C
ATOM	6026	CD2	TYR	L	173	16.370	19.437	-23.221	1.00	48.33	L	C
ATOM	6028	C	TYR	L	173	19.125	15.784	-22.072	1.00	42.57	L	C
ATOM	6029	O	TYR	L	173	20.297	16.237	-22.036	1.00	40.79	L	O
ATOM	6031	N	SER	L	174	18.841	14.501	-22.259	1.00	39.04	L	N
ATOM	6032	CA	SER	L	174	19.820	13.533	-22.742	1.00	36.45	L	C
ATOM	6034	CB	SER	L	174	20.314	12.601	-21.624	1.00	31.74	L	C
ATOM	6037	OG	SER	L	174	21.100	13.321	-20.671	1.00	32.50	L	O
ATOM	6039	C	SER	L	174	19.176	12.760	-23.886	1.00	36.73	L	C
ATOM	6040	O	SER	L	174	17.948	12.775	-24.056	1.00	37.78	L	O
ATOM	6042	N	LEU	L	175	20.024	12.137	-24.699	1.00	39.33	L	N
ATOM	6043	CA	LEU	L	175	19.613	11.552	-25.970	1.00	38.72	L	C
ATOM	6045	CB	LEU	L	175	19.675	12.637	-27.049	1.00	38.96	L	C
ATOM	6048	CG	LEU	L	175	19.280	12.318	-28.489	1.00	38.52	L	C
ATOM	6050	CD1	LEU	L	175	18.662	13.571	-29.143	1.00	35.68	L	C
ATOM	6054	CD2	LEU	L	175	20.457	11.791	-29.304	1.00	30.92	L	C
ATOM	6058	C	LEU	L	175	20.501	10.350	-26.338	1.00	42.27	L	C
ATOM	6059	O	LEU	L	175	21.727	10.399	-26.223	1.00	38.62	L	O
ATOM	6061	N	SER	L	176	19.838	9.255	-26.709	1.00	42.77	L	N
ATOM	6062	CA	SER	L	176	20.474	8.080	-27.276	1.00	43.28	L	C
ATOM	6064	CB	SER	L	176	19.888	6.782	-26.667	1.00	44.27	L	C
ATOM	6067	OG	SER	L	176	18.646	6.397	-27.270	1.00	43.98	L	O
ATOM	6069	C	SER	L	176	20.239	8.106	-28.779	1.00	44.92	L	C
ATOM	6070	O	SER	L	176	19.189	8.537	-29.237	1.00	48.72	L	O
ATOM	6072	N	SER	L	177	21.247	7.697	-29.538	1.00	43.83	L	N
ATOM	6073	CA	SER	L	177	21.107	7.417	-30.954	1.00	42.60	L	C
ATOM	6075	CB	SER	L	177	21.830	8.466	-31.789	1.00	43.91	L	C
ATOM	6078	OG	SER	L	177	21.749	8.163	-33.172	1.00	39.89	L	O

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ATOM	6080	C	SER	L	177	21.737	6.056	-31.189	1.00	44.74	L	C
ATOM	6081	O	SER	L	177	22.904	5.843	-30.842	1.00	41.52	L	O
ATOM	6083	N	THR	L	178	20.955	5.143	-31.764	1.00	41.55	L	N
ATOM	6084	CA	THR	L	178	21.367	3.782	-31.931	1.00	41.36	L	C
ATOM	6086	CB	THR	L	178	20.393	2.815	-31.202	1.00	41.23	L	C
ATOM	6088	OG1	THR	L	178	20.117	3.315	-29.886	1.00	34.82	L	O
ATOM	6090	CG2	THR	L	178	20.993	1.371	-31.129	1.00	34.06	L	C
ATOM	6094	C	THR	L	178	21.437	3.443	-33.421	1.00	42.99	L	C
ATOM	6095	O	THR	L	178	20.454	3.574	-34.149	1.00	41.03	L	O
ATOM	6097	N	LEU	L	179	22.616	3.014	-33.855	1.00	43.56	L	N
ATOM	6098	CA	LEU	L	179	22.823	2.536	-35.213	1.00	42.23	L	C
ATOM	6100	CB	LEU	L	179	24.224	2.942	-35.696	1.00	37.76	L	C
ATOM	6103	CG	LEU	L	179	24.612	2.568	-37.136	1.00	38.89	L	C
ATOM	6105	CD1	LEU	L	179	23.830	3.419	-38.129	1.00	28.87	L	C
ATOM	6109	CD2	LEU	L	179	26.116	2.724	-37.362	1.00	36.34	L	C
ATOM	6113	C	LEU	L	179	22.639	1.018	-35.217	1.00	44.98	L	C
ATOM	6114	O	LEU	L	179	23.266	0.332	-34.441	1.00	42.01	L	O
ATOM	6116	N	THR	L	180	21.765	0.497	-36.070	1.00	48.72	L	N
ATOM	6117	CA	THR	L	180	21.556	-0.957	-36.150	1.00	51.44	L	C
ATOM	6119	CB	THR	L	180	20.061	-1.349	-36.015	1.00	55.20	L	C
ATOM	6121	OG1	THR	L	180	19.538	-0.795	-34.805	1.00	58.87	L	O
ATOM	6123	CG2	THR	L	180	19.872	-2.895	-36.003	1.00	50.58	L	C
ATOM	6127	C	THR	L	180	22.109	-1.501	-37.459	1.00	52.06	L	C
ATOM	6128	O	THR	L	180	21.690	-1.077	-38.532	1.00	52.76	L	O
ATOM	6130	N	LEU	L	181	23.049	-2.438	-37.338	1.00	54.81	L	N
ATOM	6131	CA	LEU	L	181	23.693	-3.115	-38.475	1.00	55.33	L	C
ATOM	6133	CB	LEU	L	181	25.184	-2.794	-38.547	1.00	51.09	L	C
ATOM	6136	CG	LEU	L	181	25.657	-1.358	-38.624	1.00	48.89	L	C
ATOM	6138	CD1	LEU	L	181	27.144	-1.361	-38.469	1.00	47.10	L	C
ATOM	6142	CD2	LEU	L	181	25.235	-0.701	-39.933	1.00	50.67	L	C
ATOM	6146	C	LEU	L	181	23.594	-4.611	-38.283	1.00	56.24	L	C
ATOM	6147	O	LEU	L	181	23.395	-5.086	-37.162	1.00	57.83	L	O
ATOM	6149	N	SER	L	182	23.773	-5.340	-39.380	1.00	58.64	L	N
ATOM	6150	CA	SER	L	182	24.001	-6.777	-39.324	1.00	58.26	L	C
ATOM	6152	CB	SER	L	182	23.884	-7.392	-40.727	1.00	60.68	L	C
ATOM	6155	OG	SER	L	182	24.829	-6.842	-41.642	1.00	60.85	L	O
ATOM	6157	C	SER	L	182	25.391	-7.009	-38.765	1.00	57.29	L	C
ATOM	6158	O	SER	L	182	26.250	-6.128	-38.861	1.00	57.42	L	O
ATOM	6160	N	LYS	L	183	25.630	-8.182	-38.193	1.00	60.44	L	N
ATOM	6161	CA	LYS	L	183	26.990	-8.564	-37.806	1.00	61.38	L	C
ATOM	6163	CB	LYS	L	183	26.995	-9.939	-37.139	1.00	63.73	L	C
ATOM	6166	CG	LYS	L	183	28.310	-10.287	-36.456	1.00	62.64	L	C
ATOM	6169	CD	LYS	L	183	28.448	-11.773	-36.254	1.00	63.18	L	C
ATOM	6172	CE	LYS	L	183	29.728	-12.117	-35.513	1.00	63.65	L	C
ATOM	6175	NZ	LYS	L	183	29.576	-13.442	-34.867	1.00	65.34	L	N
ATOM	6179	C	LYS	L	183	27.904	-8.583	-39.035	1.00	60.83	L	C
ATOM	6180	O	LYS	L	183	29.055	-8.163	-38.977	1.00	61.17	L	O
ATOM	6182	N	ALA	L	184	27.369	-9.074	-40.148	1.00	62.89	L	N
ATOM	6183	CA	ALA	L	184	28.083	-9.086	-41.427	1.00	62.19	L	C
ATOM	6185	CB	ALA	L	184	27.159	-9.599	-42.540	1.00	64.64	L	C
ATOM	6189	C	ALA	L	184	28.632	-7.715	-41.805	1.00	61.48	L	C
ATOM	6190	O	ALA	L	184	29.827	-7.566	-42.055	1.00	62.53	L	O
ATOM	6192	N	ASP	L	185	27.752	-6.717	-41.851	1.00	64.33	L	N
ATOM	6193	CA	ASP	L	185	28.145	-5.343	-42.204	1.00	60.71	L	C
ATOM	6195	CB	ASP	L	185	26.911	-4.468	-42.446	1.00	65.03	L	C
ATOM	6198	CG	ASP	L	185	26.152	-4.843	-43.711	1.00	69.12	L	C
ATOM	6199	OD1	ASP	L	185	26.584	-5.780	-44.420	1.00	72.16	L	O
ATOM	6200	OD2	ASP	L	185	25.115	-4.196	-43.996	1.00	68.56	L	O
ATOM	6201	C	ASP	L	185	29.018	-4.693	-41.134	1.00	56.36	L	C
ATOM	6202	O	ASP	L	185	29.933	-3.959	-41.442	1.00	58.96	L	O
ATOM	6204	N	TYR	L	186	28.737	-4.956	-39.870	1.00	56.41	L	N
ATOM	6205	CA	TYR	L	186	29.546	-4.393	-38.813	1.00	55.71	L	C
ATOM	6207	CB	TYR	L	186	28.992	-4.733	-37.448	1.00	49.93	L	C
ATOM	6210	CG	TYR	L	186	29.892	-4.204	-36.367	1.00	48.78	L	C
ATOM	6211	CD1	TYR	L	186	29.974	-2.841	-36.116	1.00	45.08	L	C
ATOM	6213	CE1	TYR	L	186	30.814	-2.347	-35.140	1.00	47.94	L	C
ATOM	6215	CZ	TYR	L	186	31.590	-3.220	-34.417	1.00	46.40	L	C
ATOM	6216	OH	TYR	L	186	32.428	-2.758	-33.436	1.00	47.87	L	O

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ATOM	6218	CE2	TYR	L	186	31.525	-4.574	-34.658	1.00	48.48	L	C
ATOM	6220	CD2	TYR	L	186	30.693	-5.056	-35.634	1.00	45.30	L	C
ATOM	6222	C	TYR	L	186	30.999	-4.851	-38.897	1.00	55.83	L	C
ATOM	6223	O	TYR	L	186	31.918	-4.023	-38.794	1.00	52.78	L	O
ATOM	6225	N	GLU	L	187	31.199	-6.163	-39.071	1.00	61.69	L	N
ATOM	6226	CA	GLU	L	187	32.544	-6.756	-39.189	1.00	63.09	L	C
ATOM	6228	CB	GLU	L	187	32.489	-8.284	-39.012	1.00	65.43	L	C
ATOM	6231	CG	GLU	L	187	31.922	-8.793	-37.681	1.00	69.71	L	C
ATOM	6234	CD	GLU	L	187	32.804	-8.500	-36.471	1.00	75.45	L	C
ATOM	6235	OE1	GLU	L	187	33.938	-8.003	-36.632	1.00	80.50	L	O
ATOM	6236	OE2	GLU	L	187	32.362	-8.780	-35.335	1.00	78.84	L	O
ATOM	6237	C	GLU	L	187	33.232	-6.445	-40.527	1.00	63.09	L	C
ATOM	6238	O	GLU	L	187	34.419	-6.726	-40.700	1.00	62.81	L	O
ATOM	6240	N	LYS	L	188	32.479	-5.875	-41.464	1.00	64.28	L	N
ATOM	6241	CA	LYS	L	188	32.996	-5.466	-42.761	1.00	64.00	L	C
ATOM	6243	CB	LYS	L	188	31.829	-5.454	-43.754	1.00	66.06	L	C
ATOM	6246	CG	LYS	L	188	32.193	-5.251	-45.202	1.00	69.06	L	C
ATOM	6249	CD	LYS	L	188	30.950	-5.423	-46.080	1.00	71.62	L	C
ATOM	6252	CE	LYS	L	188	31.143	-4.797	-47.471	1.00	72.63	L	C
ATOM	6255	NZ	LYS	L	188	29.927	-4.957	-48.333	1.00	72.31	L	N
ATOM	6259	C	LYS	L	188	33.692	-4.089	-42.706	1.00	64.42	L	C
ATOM	6260	O	LYS	L	188	34.561	-3.803	-43.533	1.00	67.92	L	O
ATOM	6262	N	HIS	L	189	33.331	-3.251	-41.730	1.00	59.52	L	N
ATOM	6263	CA	HIS	L	189	33.865	-1.878	-41.644	1.00	57.93	L	C
ATOM	6265	CB	HIS	L	189	32.727	-0.867	-41.847	1.00	54.63	L	C
ATOM	6268	CG	HIS	L	189	31.967	-1.072	-43.124	1.00	53.62	L	C
ATOM	6269	ND1	HIS	L	189	32.411	-0.602	-44.340	1.00	55.10	L	N
ATOM	6271	CE1	HIS	L	189	31.551	-0.943	-45.285	1.00	54.65	L	C
ATOM	6273	NE2	HIS	L	189	30.564	-1.620	-44.726	1.00	54.19	L	N
ATOM	6275	CD2	HIS	L	189	30.803	-1.721	-43.377	1.00	54.45	L	C
ATOM	6277	C	HIS	L	189	34.647	-1.602	-40.353	1.00	55.08	L	C
ATOM	6278	O	HIS	L	189	34.524	-2.331	-39.377	1.00	50.86	L	O
ATOM	6280	N	LYS	L	190	35.462	-0.548	-40.375	1.00	60.20	L	N
ATOM	6281	CA	LYS	L	190	36.428	-0.245	-39.306	1.00	61.70	L	C
ATOM	6283	CB	LYS	L	190	37.794	0.046	-39.946	1.00	65.45	L	C
ATOM	6286	CG	LYS	L	190	38.980	0.269	-38.985	1.00	66.68	L	C
ATOM	6289	CD	LYS	L	190	40.202	0.796	-39.768	1.00	67.88	L	C
ATOM	6292	CE	LYS	L	190	41.533	0.617	-39.024	1.00	70.59	L	C
ATOM	6295	NZ	LYS	L	190	41.881	1.774	-38.144	1.00	72.68	L	N
ATOM	6299	C	LYS	L	190	36.003	0.946	-38.433	1.00	60.27	L	C
ATOM	6300	O	LYS	L	190	35.963	0.841	-37.209	1.00	61.09	L	O
ATOM	6302	N	VAL	L	191	35.693	2.075	-39.065	1.00	58.06	L	N
ATOM	6303	CA	VAL	L	191	35.486	3.328	-38.335	1.00	56.13	L	C
ATOM	6305	CB	VAL	L	191	36.163	4.531	-39.022	1.00	51.38	L	C
ATOM	6307	CG1	VAL	L	191	36.327	5.666	-38.035	1.00	44.91	L	C
ATOM	6311	CG2	VAL	L	191	37.511	4.133	-39.618	1.00	46.86	L	C
ATOM	6315	C	VAL	L	191	34.012	3.639	-38.169	1.00	54.00	L	C
ATOM	6316	O	VAL	L	191	33.294	3.803	-39.141	1.00	51.82	L	O
ATOM	6318	N	TYR	L	192	33.579	3.721	-36.916	1.00	53.06	L	N
ATOM	6319	CA	TYR	L	192	32.207	4.051	-36.589	1.00	52.43	L	C
ATOM	6321	CB	TYR	L	192	31.590	2.913	-35.749	1.00	48.27	L	C
ATOM	6324	CG	TYR	L	192	31.431	1.670	-36.585	1.00	43.89	L	C
ATOM	6325	CD1	TYR	L	192	30.263	1.442	-37.294	1.00	46.86	L	C
ATOM	6327	CE1	TYR	L	192	30.122	0.337	-38.106	1.00	45.64	L	C
ATOM	6329	CZ	TYR	L	192	31.166	-0.548	-38.234	1.00	46.11	L	C
ATOM	6330	OH	TYR	L	192	31.008	-1.649	-39.054	1.00	46.65	L	O
ATOM	6332	CE2	TYR	L	192	32.343	-0.336	-37.551	1.00	43.77	L	C
ATOM	6334	CD2	TYR	L	192	32.472	0.775	-36.736	1.00	41.79	L	C
ATOM	6336	C	TYR	L	192	32.211	5.390	-35.883	1.00	49.70	L	C
ATOM	6337	O	TYR	L	192	32.914	5.575	-34.895	1.00	47.81	L	O
ATOM	6339	N	ALA	L	193	31.453	6.333	-36.426	1.00	45.97	L	N
ATOM	6340	CA	ALA	L	193	31.540	7.703	-35.986	1.00	49.30	L	C
ATOM	6342	CB	ALA	L	193	32.350	8.542	-37.023	1.00	42.40	L	C
ATOM	6346	C	ALA	L	193	30.168	8.300	-35.769	1.00	49.30	L	C
ATOM	6347	O	ALA	L	193	29.250	8.107	-36.567	1.00	47.78	L	O
ATOM	6349	N	CYS	L	194	30.070	9.035	-34.670	1.00	51.14	L	N
ATOM	6350	CA	CYS	L	194	28.875	9.749	-34.262	1.00	50.14	L	C
ATOM	6352	CB	CYS	L	194	28.528	9.329	-32.835	1.00	50.26	L	C

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ATOM	6355	SG	CYS	L	194	27.025	9.988	-32.355	1.00	54.32	L	S
ATOM	6357	C	CYS	L	194	29.142	11.250	-34.268	1.00	48.33	L	C
ATOM	6358	O	CYS	L	194	29.904	11.729	-33.444	1.00	46.40	L	O
ATOM	6360	N	GLU	L	195	28.507	11.988	-35.178	1.00	50.19	L	N
ATOM	6361	CA	GLU	L	195	28.655	13.446	-35.254	1.00	50.14	L	C
ATOM	6363	CB	GLU	L	195	28.828	13.904	-36.705	1.00	49.47	L	C
ATOM	6366	CG	GLU	L	195	29.442	15.296	-36.815	1.00	50.72	L	C
ATOM	6369	CD	GLU	L	195	29.484	15.846	-38.241	1.00	53.94	L	C
ATOM	6370	OE1	GLU	L	195	28.487	15.645	-38.972	1.00	56.27	L	O
ATOM	6371	OE2	GLU	L	195	30.499	16.507	-38.606	1.00	46.08	L	O
ATOM	6372	C	GLU	L	195	27.472	14.192	-34.665	1.00	47.54	L	C
ATOM	6373	O	GLU	L	195	26.365	14.007	-35.117	1.00	47.84	L	O
ATOM	6375	N	VAL	L	196	27.726	15.087	-33.709	1.00	49.17	L	N
ATOM	6376	CA	VAL	L	196	26.661	15.799	-32.969	1.00	45.93	L	C
ATOM	6378	CB	VAL	L	196	26.742	15.500	-31.439	1.00	42.68	L	C
ATOM	6380	CG1	VAL	L	196	25.766	16.376	-30.603	1.00	34.28	L	C
ATOM	6384	CG2	VAL	L	196	26.488	14.019	-31.189	1.00	42.50	L	C
ATOM	6388	C	VAL	L	196	26.688	17.311	-33.193	1.00	45.66	L	C
ATOM	6389	O	VAL	L	196	27.691	17.954	-32.922	1.00	46.99	L	O
ATOM	6391	N	THR	L	197	25.570	17.856	-33.670	1.00	46.91	L	N
ATOM	6392	CA	THR	L	197	25.362	19.301	-33.844	1.00	46.84	L	C
ATOM	6394	CB	THR	L	197	24.759	19.615	-35.230	1.00	43.17	L	C
ATOM	6396	OG1	THR	L	197	25.604	19.073	-36.249	1.00	44.87	L	O
ATOM	6398	CG2	THR	L	197	24.610	21.110	-35.446	1.00	39.93	L	C
ATOM	6402	C	THR	L	197	24.390	19.829	-32.793	1.00	45.99	L	C
ATOM	6403	O	THR	L	197	23.282	19.331	-32.647	1.00	44.32	L	O
ATOM	6405	N	HIS	L	198	24.815	20.850	-32.072	1.00	48.27	L	N
ATOM	6406	CA	HIS	L	198	24.017	21.421	-31.002	1.00	48.02	L	C
ATOM	6408	CB	HIS	L	198	24.192	20.569	-29.726	1.00	46.41	L	C
ATOM	6411	CG	HIS	L	198	23.401	21.048	-28.552	1.00	44.30	L	C
ATOM	6412	ND1	HIS	L	198	22.071	20.738	-28.372	1.00	44.95	L	N
ATOM	6414	CE1	HIS	L	198	21.637	21.315	-27.266	1.00	43.07	L	C
ATOM	6416	NE2	HIS	L	198	22.638	21.975	-26.715	1.00	41.43	L	N
ATOM	6418	CD2	HIS	L	198	23.755	21.817	-27.496	1.00	42.19	L	C
ATOM	6420	C	HIS	L	198	24.491	22.840	-30.796	1.00	49.58	L	C
ATOM	6421	O	HIS	L	198	25.663	23.118	-30.993	1.00	52.10	L	O
ATOM	6423	N	GLN	L	199	23.574	23.722	-30.411	1.00	49.49	L	N
ATOM	6424	CA	GLN	L	199	23.859	25.135	-30.177	1.00	49.77	L	C
ATOM	6426	CB	GLN	L	199	22.595	25.815	-29.631	1.00	51.64	L	C
ATOM	6429	CG	GLN	L	199	22.779	27.305	-29.347	1.00	51.76	L	C
ATOM	6432	CD	GLN	L	199	21.484	28.016	-29.048	1.00	53.94	L	C
ATOM	6433	OE1	GLN	L	199	20.443	27.395	-28.772	1.00	50.61	L	O
ATOM	6434	NE2	GLN	L	199	21.539	29.340	-29.092	1.00	56.38	L	N
ATOM	6437	C	GLN	L	199	25.038	25.400	-29.219	1.00	49.16	L	C
ATOM	6438	O	GLN	L	199	25.795	26.351	-29.394	1.00	50.99	L	O
ATOM	6440	N	GLY	L	200	25.169	24.561	-28.202	1.00	46.70	L	N
ATOM	6441	CA	GLY	L	200	26.245	24.667	-27.213	1.00	46.48	L	C
ATOM	6444	C	GLY	L	200	27.595	24.140	-27.688	1.00	47.59	L	C
ATOM	6445	O	GLY	L	200	28.585	24.217	-26.958	1.00	46.17	L	O
ATOM	6447	N	LEU	L	201	27.641	23.610	-28.911	1.00	48.45	L	N
ATOM	6448	CA	LEU	L	201	28.898	23.232	-29.550	1.00	50.95	L	C
ATOM	6450	CB	LEU	L	201	28.810	21.819	-30.115	1.00	48.31	L	C
ATOM	6453	CG	LEU	L	201	28.481	20.691	-29.160	1.00	42.30	L	C
ATOM	6455	CD1	LEU	L	201	28.103	19.460	-29.959	1.00	41.86	L	C
ATOM	6459	CD2	LEU	L	201	29.648	20.441	-28.261	1.00	38.77	L	C
ATOM	6463	C	LEU	L	201	29.186	24.184	-30.698	1.00	51.33	L	C
ATOM	6464	O	LEU	L	201	28.361	24.312	-31.613	1.00	48.35	L	O
ATOM	6466	N	SER	L	202	30.353	24.826	-30.653	1.00	54.52	L	N
ATOM	6467	CA	SER	L	202	30.753	25.833	-31.649	1.00	56.76	L	C
ATOM	6469	CB	SER	L	202	32.178	26.306	-31.359	1.00	50.69	L	C
ATOM	6472	OG	SER	L	202	32.286	26.758	-30.036	1.00	48.46	L	O
ATOM	6474	C	SER	L	202	30.682	25.290	-33.075	1.00	59.76	L	C
ATOM	6475	O	SER	L	202	30.073	25.907	-33.947	1.00	58.24	L	O
ATOM	6477	N	SER	L	203	31.340	24.151	-33.288	1.00	59.72	L	N
ATOM	6478	CA	SER	L	203	31.172	23.329	-34.480	1.00	57.86	L	C
ATOM	6480	CB	SER	L	203	32.460	23.267	-35.291	1.00	50.95	L	C
ATOM	6483	OG	SER	L	203	32.819	24.548	-35.726	1.00	50.17	L	O
ATOM	6485	C	SER	L	203	30.794	21.913	-34.050	1.00	58.51	L	C

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ATOM	6486	O	SER	L	203	31.028	21.541	-32.898	1.00	57.05	L	O
ATOM	6488	N	PRO	L	204	30.222	21.114	-34.976	1.00	57.55	L	N
ATOM	6489	CA	PRO	L	204	29.888	19.718	-34.701	1.00	57.91	L	C
ATOM	6491	CB	PRO	L	204	29.421	19.194	-36.067	1.00	55.27	L	C
ATOM	6494	CG	PRO	L	204	28.949	20.355	-36.772	1.00	53.04	L	C
ATOM	6497	CD	PRO	L	204	29.826	21.490	-36.344	1.00	53.32	L	C
ATOM	6500	C	PRO	L	204	31.043	18.841	-34.156	1.00	59.00	L	C
ATOM	6501	O	PRO	L	204	32.135	18.794	-34.721	1.00	60.86	L	O
ATOM	6502	N	VAL	L	205	30.756	18.137	-33.064	1.00	58.39	L	N
ATOM	6503	CA	VAL	L	205	31.703	17.223	-32.418	1.00	55.63	L	C
ATOM	6505	CB	VAL	L	205	31.570	17.320	-30.866	1.00	53.31	L	C
ATOM	6507	CG1	VAL	L	205	32.248	16.153	-30.154	1.00	46.49	L	C
ATOM	6511	CG2	VAL	L	205	32.124	18.650	-30.376	1.00	50.74	L	C
ATOM	6515	C	VAL	L	205	31.440	15.783	-32.885	1.00	55.29	L	C
ATOM	6516	O	VAL	L	205	30.293	15.340	-32.924	1.00	57.28	L	O
ATOM	6518	N	THR	L	206	32.509	15.082	-33.254	1.00	54.15	L	N
ATOM	6519	CA	THR	L	206	32.449	13.684	-33.657	1.00	51.32	L	C
ATOM	6521	CB	THR	L	206	33.160	13.409	-34.991	1.00	53.60	L	C
ATOM	6523	OG1	THR	L	206	32.382	13.946	-36.062	1.00	56.63	L	O
ATOM	6525	CG2	THR	L	206	33.318	11.908	-35.225	1.00	53.34	L	C
ATOM	6529	C	THR	L	206	33.083	12.830	-32.575	1.00	48.30	L	C
ATOM	6530	O	THR	L	206	34.101	13.182	-32.003	1.00	44.93	L	O
ATOM	6532	N	LYS	L	207	32.438	11.711	-32.278	1.00	48.11	L	N
ATOM	6533	CA	LYS	L	207	32.951	10.746	-31.328	1.00	47.69	L	C
ATOM	6535	CB	LYS	L	207	32.017	10.661	-30.130	1.00	51.27	L	C
ATOM	6538	CG	LYS	L	207	32.591	9.963	-28.938	1.00	54.80	L	C
ATOM	6541	CD	LYS	L	207	33.522	10.856	-28.161	1.00	56.35	L	C
ATOM	6544	CE	LYS	L	207	34.129	10.089	-26.983	1.00	57.99	L	C
ATOM	6547	NZ	LYS	L	207	35.075	10.969	-26.211	1.00	61.14	L	N
ATOM	6551	C	LYS	L	207	32.995	9.447	-32.091	1.00	45.20	L	C
ATOM	6552	O	LYS	L	207	32.029	9.100	-32.736	1.00	45.83	L	O
ATOM	6554	N	SER	L	208	34.120	8.742	-32.062	1.00	46.22	L	N
ATOM	6555	CA	SER	L	208	34.236	7.531	-32.871	1.00	47.63	L	C
ATOM	6557	CB	SER	L	208	34.666	7.878	-34.302	1.00	47.55	L	C
ATOM	6560	OG	SER	L	208	36.033	8.220	-34.384	1.00	41.56	L	O
ATOM	6562	C	SER	L	208	35.180	6.500	-32.288	1.00	48.20	L	C
ATOM	6563	O	SER	L	208	35.934	6.777	-31.362	1.00	52.20	L	O
ATOM	6565	N	PHE	L	209	35.101	5.296	-32.831	1.00	46.66	L	N
ATOM	6566	CA	PHE	L	209	36.035	4.233	-32.502	1.00	49.44	L	C
ATOM	6568	CB	PHE	L	209	35.432	3.330	-31.420	1.00	46.41	L	C
ATOM	6571	CG	PHE	L	209	34.239	2.542	-31.880	1.00	46.64	L	C
ATOM	6572	CD1	PHE	L	209	34.398	1.286	-32.450	1.00	43.56	L	C
ATOM	6574	CE1	PHE	L	209	33.311	0.548	-32.865	1.00	42.13	L	C
ATOM	6576	CZ	PHE	L	209	32.052	1.059	-32.721	1.00	44.04	L	C
ATOM	6578	CE2	PHE	L	209	31.870	2.314	-32.161	1.00	46.14	L	C
ATOM	6580	CD2	PHE	L	209	32.956	3.047	-31.732	1.00	46.76	L	C
ATOM	6582	C	PHE	L	209	36.341	3.409	-33.743	1.00	49.20	L	C
ATOM	6583	O	PHE	L	209	35.588	3.448	-34.719	1.00	46.78	L	O
ATOM	6585	N	ASN	L	210	37.426	2.640	-33.688	1.00	51.35	L	N
ATOM	6586	CA	ASN	L	210	37.718	1.629	-34.720	1.00	52.39	L	C
ATOM	6588	CB	ASN	L	210	39.204	1.572	-35.066	1.00	52.66	L	C
ATOM	6591	CG	ASN	L	210	39.697	2.814	-35.753	1.00	51.88	L	C
ATOM	6592	OD1	ASN	L	210	40.616	3.464	-35.271	1.00	49.14	L	O
ATOM	6593	ND2	ASN	L	210	39.092	3.154	-36.891	1.00	53.74	L	N
ATOM	6596	C	ASN	L	210	37.294	0.250	-34.228	1.00	52.59	L	C
ATOM	6597	O	ASN	L	210	37.520	-0.089	-33.074	1.00	50.71	L	O
ATOM	6599	N	ARG	L	211	36.684	-0.546	-35.096	1.00	55.47	L	N
ATOM	6600	CA	ARG	L	211	36.206	-1.863	-34.702	1.00	58.50	L	C
ATOM	6602	CB	ARG	L	211	35.549	-2.581	-35.880	1.00	57.44	L	C
ATOM	6605	CG	ARG	L	211	34.993	-3.961	-35.512	1.00	55.24	L	C
ATOM	6608	CD	ARG	L	211	34.199	-4.594	-36.649	1.00	56.18	L	C
ATOM	6611	NE	ARG	L	211	34.885	-4.525	-37.935	1.00	60.69	L	N
ATOM	6613	CZ	ARG	L	211	36.031	-5.152	-38.235	1.00	60.74	L	C
ATOM	6614	NH1	ARG	L	211	36.646	-5.936	-37.352	1.00	58.37	L	N
ATOM	6617	NH2	ARG	L	211	36.570	-4.991	-39.443	1.00	55.17	L	N
ATOM	6620	C	ARG	L	211	37.376	-2.679	-34.158	1.00	63.88	L	C
ATOM	6621	O	ARG	L	211	38.414	-2.808	-34.814	1.00	61.01	L	O
ATOM	6623	N	GLY	L	212	37.162	-3.266	-32.980	1.00	71.67	L	N

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ATOM	6624	CA	GLY	L	212	38.233	-3.558	-32.025	1.00	78.82	L	C
ATOM	6627	C	GLY	L	212	38.122	-2.433	-31.015	1.00	85.15	L	C
ATOM	6628	O	GLY	L	212	37.028	-1.892	-30.840	1.00	89.78	L	O
ATOM	6630	N	GLU	L	213	39.221	-2.066	-30.357	1.00	87.23	L	N
ATOM	6631	CA	GLU	L	213	39.267	-0.853	-29.493	1.00	87.94	L	C
ATOM	6633	CB	GLU	L	213	39.310	0.415	-30.349	1.00	87.71	L	C
ATOM	6636	CG	GLU	L	213	40.434	0.514	-31.355	1.00	86.45	L	C
ATOM	6639	CD	GLU	L	213	40.584	1.929	-31.898	1.00	84.96	L	C
ATOM	6640	OE1	GLU	L	213	39.728	2.794	-31.599	1.00	80.72	L	O
ATOM	6641	OE2	GLU	L	213	41.559	2.168	-32.633	1.00	83.00	L	O
ATOM	6642	C	GLU	L	213	38.089	-0.655	-28.506	1.00	89.34	L	C
ATOM	6643	O	GLU	L	213	36.944	-0.930	-28.844	1.00	88.75	L	O
ATOM	6645	N	CYS	L	214	38.358	-0.117	-27.313	1.00	88.21	L	N
ATOM	6646	CA	CYS	L	214	37.330	0.005	-26.256	1.00	88.02	L	C
ATOM	6648	CB	CYS	L	214	37.737	-0.738	-24.973	1.00	88.17	L	C
ATOM	6651	SG	CYS	L	214	38.487	-2.372	-25.224	1.00	87.90	L	S
ATOM	6653	C	CYS	L	214	37.054	1.467	-25.929	1.00	87.94	L	C
ATOM	6654	O	CYS	L	214	37.836	2.119	-25.236	1.00	87.27	L	O
ATOM	6656	N	GLU	H	1	-2.069	3.119	6.492	1.00	44.41	H	N
ATOM	6657	CA	GLU	H	1	-2.053	4.100	5.359	1.00	46.29	H	C
ATOM	6659	CB	GLU	H	1	-0.634	4.500	4.954	1.00	46.98	H	C
ATOM	6662	CG	GLU	H	1	0.037	3.605	3.923	1.00	50.56	H	C
ATOM	6665	CD	GLU	H	1	0.350	2.212	4.415	1.00	50.71	H	C
ATOM	6666	OE1	GLU	H	1	0.116	1.878	5.612	1.00	47.53	H	O
ATOM	6667	OE2	GLU	H	1	0.830	1.440	3.566	1.00	54.91	H	O
ATOM	6668	C	GLU	H	1	-2.853	3.592	4.156	1.00	47.06	H	C
ATOM	6669	O	GLU	H	1	-3.028	2.398	3.968	1.00	47.23	H	O
ATOM	6673	N	VAL	H	2	-3.341	4.522	3.340	1.00	48.38	H	N
ATOM	6674	CA	VAL	H	2	-4.169	4.166	2.196	1.00	41.58	H	C
ATOM	6676	CB	VAL	H	2	-5.126	5.328	1.775	1.00	39.99	H	C
ATOM	6678	CG1	VAL	H	2	-5.920	4.969	0.502	1.00	37.91	H	C
ATOM	6682	CG2	VAL	H	2	-6.081	5.700	2.925	1.00	36.96	H	C
ATOM	6686	C	VAL	H	2	-3.267	3.725	1.053	1.00	41.29	H	C
ATOM	6687	O	VAL	H	2	-2.196	4.330	0.801	1.00	38.23	H	O
ATOM	6689	N	GLN	H	3	-3.697	2.653	0.389	1.00	39.72	H	N
ATOM	6690	CA	GLN	H	3	-3.020	2.111	-0.788	1.00	40.63	H	C
ATOM	6692	CB	GLN	H	3	-2.121	0.929	-0.386	1.00	41.89	H	C
ATOM	6695	CG	GLN	H	3	-1.071	1.275	0.639	1.00	45.64	H	C
ATOM	6698	CD	GLN	H	3	-0.044	2.270	0.104	1.00	47.09	H	C
ATOM	6699	OE1	GLN	H	3	0.014	2.553	-1.107	1.00	47.60	H	O
ATOM	6700	NE2	GLN	H	3	0.766	2.810	1.005	1.00	39.17	H	N
ATOM	6703	C	GLN	H	3	-4.057	1.618	-1.816	1.00	37.05	H	C
ATOM	6704	O	GLN	H	3	-5.119	1.080	-1.451	1.00	36.65	H	O
ATOM	6706	N	LEU	H	4	-3.716	1.799	-3.083	1.00	33.69	H	N
ATOM	6707	CA	LEU	H	4	-4.460	1.265	-4.193	1.00	35.71	H	C
ATOM	6709	CB	LEU	H	4	-5.228	2.383	-4.921	1.00	38.38	H	C
ATOM	6712	CG	LEU	H	4	-6.286	3.156	-4.113	1.00	32.18	H	C
ATOM	6714	CD1	LEU	H	4	-6.875	4.315	-4.936	1.00	33.93	H	C
ATOM	6718	CD2	LEU	H	4	-7.400	2.258	-3.677	1.00	35.29	H	C
ATOM	6722	C	LEU	H	4	-3.445	0.589	-5.112	1.00	34.33	H	C
ATOM	6723	O	LEU	H	4	-2.504	1.229	-5.599	1.00	34.20	H	O
ATOM	6725	N	VAL	H	5	-3.600	-0.719	-5.293	1.00	34.00	H	N
ATOM	6726	CA	VAL	H	5	-2.628	-1.512	-6.008	1.00	35.22	H	C
ATOM	6728	CB	VAL	H	5	-1.968	-2.536	-5.040	1.00	33.57	H	C
ATOM	6730	CG1	VAL	H	5	-1.056	-3.515	-5.810	1.00	32.11	H	C
ATOM	6734	CG2	VAL	H	5	-1.187	-1.781	-3.956	1.00	31.13	H	C
ATOM	6738	C	VAL	H	5	-3.356	-2.204	-7.146	1.00	37.40	H	C
ATOM	6739	O	VAL	H	5	-4.295	-2.962	-6.891	1.00	39.10	H	O
ATOM	6741	N	GLN	H	6	-2.933	-1.914	-8.379	1.00	36.95	H	N
ATOM	6742	CA	GLN	H	6	-3.536	-2.451	-9.562	1.00	38.93	H	C
ATOM	6744	CB	GLN	H	6	-3.671	-1.341	-10.615	1.00	44.00	H	C
ATOM	6747	CG	GLN	H	6	-4.609	-0.174	-10.223	1.00	39.67	H	C
ATOM	6750	CD	GLN	H	6	-4.610	0.916	-11.276	1.00	38.07	H	C
ATOM	6751	OE1	GLN	H	6	-4.106	2.031	-11.066	1.00	33.97	H	O
ATOM	6752	NE2	GLN	H	6	-5.152	0.594	-12.425	1.00	39.45	H	N
ATOM	6755	C	GLN	H	6	-2.742	-3.651	-10.122	1.00	41.19	H	C
ATOM	6756	O	GLN	H	6	-1.579	-3.836	-9.831	1.00	35.70	H	O
ATOM	6758	N	SER	H	7	-3.410	-4.478	-10.912	1.00	44.44	H	N

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ATOM	6759	CA	SER	H	7	-2.780	-5.612	-11.572	1.00	41.36	H	C
ATOM	6761	CB	SER	H	7	-3.854	-6.534	-12.172	1.00	40.72	H	C
ATOM	6764	OG	SER	H	7	-4.864	-5.787	-12.854	1.00	38.23	H	O
ATOM	6766	C	SER	H	7	-1.774	-5.144	-12.633	1.00	41.77	H	C
ATOM	6767	O	SER	H	7	-1.750	-3.963	-13.005	1.00	42.33	H	O
ATOM	6769	N	GLY	H	8	-0.955	-6.084	-13.106	1.00	38.12	H	N
ATOM	6770	CA	GLY	H	8	0.159	-5.793	-13.984	1.00	39.46	H	C
ATOM	6773	C	GLY	H	8	-0.242	-5.567	-15.424	1.00	39.60	H	C
ATOM	6774	O	GLY	H	8	-1.418	-5.666	-15.757	1.00	40.34	H	O
ATOM	6776	N	PRO	H	9	0.739	-5.256	-16.282	1.00	39.99	H	N
ATOM	6777	CA	PRO	H	9	0.491	-4.955	-17.678	1.00	41.96	H	C
ATOM	6779	CB	PRO	H	9	1.883	-4.571	-18.216	1.00	42.07	H	C
ATOM	6782	CG	PRO	H	9	2.860	-5.196	-17.297	1.00	42.68	H	C
ATOM	6785	CD	PRO	H	9	2.177	-5.184	-15.946	1.00	47.57	H	C
ATOM	6788	C	PRO	H	9	-0.036	-6.167	-18.402	1.00	44.52	H	C
ATOM	6789	O	PRO	H	9	0.319	-7.284	-18.042	1.00	45.20	H	O
ATOM	6790	N	GLU	H	10	-0.877	-5.944	-19.412	1.00	46.33	H	N
ATOM	6791	CA	GLU	H	10	-1.410	-7.029	-20.199	1.00	47.53	H	C
ATOM	6793	CB	GLU	H	10	-2.784	-7.379	-19.698	1.00	53.37	H	C
ATOM	6796	CG	GLU	H	10	-2.710	-8.092	-18.383	1.00	54.90	H	C
ATOM	6799	CD	GLU	H	10	-4.055	-8.433	-17.889	1.00	57.03	H	C
ATOM	6800	OE1	GLU	H	10	-4.560	-7.731	-16.989	1.00	59.14	H	O
ATOM	6801	OE2	GLU	H	10	-4.623	-9.391	-18.440	1.00	68.47	H	O
ATOM	6802	C	GLU	H	10	-1.431	-6.749	-21.686	1.00	46.71	H	C
ATOM	6803	O	GLU	H	10	-1.543	-5.606	-22.128	1.00	47.81	H	O
ATOM	6805	N	LEU	H	11	-1.276	-7.824	-22.448	1.00	48.57	H	N
ATOM	6806	CA	LEU	H	11	-1.296	-7.786	-23.898	1.00	47.81	H	C
ATOM	6808	CB	LEU	H	11	0.007	-8.397	-24.458	1.00	50.65	H	C
ATOM	6811	CG	LEU	H	11	0.072	-8.710	-25.955	1.00	46.87	H	C
ATOM	6813	CD1	LEU	H	11	0.007	-7.438	-26.762	1.00	41.30	H	C
ATOM	6817	CD2	LEU	H	11	1.315	-9.517	-26.280	1.00	47.16	H	C
ATOM	6821	C	LEU	H	11	-2.498	-8.612	-24.300	1.00	46.37	H	C
ATOM	6822	O	LEU	H	11	-2.632	-9.756	-23.869	1.00	41.42	H	O
ATOM	6824	N	LYS	H	12	-3.380	-8.000	-25.087	1.00	46.53	H	N
ATOM	6825	CA	LYS	H	12	-4.588	-8.634	-25.566	1.00	45.75	H	C
ATOM	6827	CB	LYS	H	12	-5.803	-8.007	-24.875	1.00	46.13	H	C
ATOM	6830	CG	LYS	H	12	-5.865	-8.292	-23.376	1.00	42.46	H	C
ATOM	6833	CD	LYS	H	12	-6.254	-9.732	-23.094	1.00	43.81	H	C
ATOM	6836	CE	LYS	H	12	-6.012	-10.084	-21.650	1.00	44.50	H	C
ATOM	6839	NZ	LYS	H	12	-6.470	-11.454	-21.313	1.00	42.52	H	N
ATOM	6843	C	LYS	H	12	-4.666	-8.440	-27.062	1.00	44.24	H	C
ATOM	6844	O	LYS	H	12	-4.068	-7.504	-27.605	1.00	41.65	H	O
ATOM	6846	N	LYS	H	13	-5.370	-9.347	-27.729	1.00	46.12	H	N
ATOM	6847	CA	LYS	H	13	-5.550	-9.251	-29.167	1.00	50.31	H	C
ATOM	6849	CB	LYS	H	13	-5.668	-10.646	-29.789	1.00	56.21	H	C
ATOM	6852	CG	LYS	H	13	-4.537	-11.594	-29.326	1.00	57.01	H	C
ATOM	6855	CD	LYS	H	13	-3.869	-12.359	-30.468	1.00	55.53	H	C
ATOM	6858	CE	LYS	H	13	-2.612	-13.118	-29.978	1.00	55.81	H	C
ATOM	6861	NZ	LYS	H	13	-1.466	-12.995	-30.936	1.00	50.29	H	N
ATOM	6865	C	LYS	H	13	-6.753	-8.379	-29.421	1.00	45.92	H	C
ATOM	6866	O	LYS	H	13	-7.574	-8.185	-28.524	1.00	44.27	H	O
ATOM	6868	N	PRO	H	14	-6.839	-7.788	-30.613	1.00	47.12	H	N
ATOM	6869	CA	PRO	H	14	-8.039	-7.030	-30.912	1.00	49.95	H	C
ATOM	6871	CB	PRO	H	14	-7.786	-6.537	-32.339	1.00	50.25	H	C
ATOM	6874	CG	PRO	H	14	-6.311	-6.500	-32.455	1.00	48.04	H	C
ATOM	6877	CD	PRO	H	14	-5.863	-7.704	-31.710	1.00	50.66	H	C
ATOM	6880	C	PRO	H	14	-9.258	-7.929	-30.831	1.00	51.78	H	C
ATOM	6881	O	PRO	H	14	-9.149	-9.129	-31.139	1.00	52.51	H	O
ATOM	6882	N	GLY	H	15	-10.386	-7.366	-30.379	1.00	51.68	H	N
ATOM	6883	CA	GLY	H	15	-11.642	-8.122	-30.239	1.00	49.53	H	C
ATOM	6886	C	GLY	H	15	-11.797	-8.818	-28.901	1.00	46.32	H	C
ATOM	6887	O	GLY	H	15	-12.902	-9.107	-28.487	1.00	51.33	H	O
ATOM	6889	N	ALA	H	16	-10.685	-9.077	-28.221	1.00	43.87	H	N
ATOM	6890	CA	ALA	H	16	-10.714	-9.655	-26.887	1.00	44.61	H	C
ATOM	6892	CB	ALA	H	16	-9.329	-10.249	-26.508	1.00	40.53	H	C
ATOM	6896	C	ALA	H	16	-11.180	-8.645	-25.810	1.00	43.92	H	C
ATOM	6897	O	ALA	H	16	-11.552	-7.488	-26.081	1.00	45.90	H	O
ATOM	6899	N	SER	H	17	-11.183	-9.122	-24.582	1.00	42.33	H	N

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ATOM	6900	CA	SER	H	17	-11.592	-8.329	-23.456	1.00	47.23	H	C
ATOM	6902	CB	SER	H	17	-12.929	-8.848	-22.918	1.00	53.98	H	C
ATOM	6905	OG	SER	H	17	-12.745	-10.020	-22.146	1.00	56.45	H	O
ATOM	6907	C	SER	H	17	-10.518	-8.408	-22.372	1.00	47.23	H	C
ATOM	6908	O	SER	H	17	-9.720	-9.361	-22.331	1.00	43.65	H	O
ATOM	6910	N	VAL	H	18	-10.500	-7.411	-21.497	1.00	45.22	H	N
ATOM	6911	CA	VAL	H	18	-9.517	-7.387	-20.411	1.00	45.51	H	C
ATOM	6913	CB	VAL	H	18	-8.282	-6.498	-20.768	1.00	46.57	H	C
ATOM	6915	CG1	VAL	H	18	-8.649	-5.047	-20.735	1.00	45.60	H	C
ATOM	6919	CG2	VAL	H	18	-7.122	-6.783	-19.816	1.00	45.99	H	C
ATOM	6923	C	VAL	H	18	-10.163	-6.918	-19.106	1.00	46.25	H	C
ATOM	6924	O	VAL	H	18	-11.101	-6.131	-19.109	1.00	39.23	H	O
ATOM	6926	N	LYS	H	19	-9.652	-7.424	-17.988	1.00	50.25	H	N
ATOM	6927	CA	LYS	H	19	-10.161	-7.053	-16.684	1.00	47.70	H	C
ATOM	6929	CB	LYS	H	19	-10.854	-8.244	-16.026	1.00	51.54	H	C
ATOM	6932	CG	LYS	H	19	-11.356	-7.962	-14.609	1.00	57.22	H	C
ATOM	6935	CD	LYS	H	19	-12.866	-7.841	-14.520	1.00	61.40	H	C
ATOM	6938	CE	LYS	H	19	-13.479	-9.111	-13.974	1.00	62.59	H	C
ATOM	6941	NZ	LYS	H	19	-14.945	-8.960	-13.816	1.00	63.97	H	N
ATOM	6945	C	LYS	H	19	-9.010	-6.574	-15.802	1.00	44.19	H	C
ATOM	6946	O	LYS	H	19	-8.164	-7.361	-15.421	1.00	44.02	H	O
ATOM	6948	N	VAL	H	20	-9.014	-5.290	-15.459	1.00	43.25	H	N
ATOM	6949	CA	VAL	H	20	-8.010	-4.701	-14.580	1.00	42.18	H	C
ATOM	6951	CB	VAL	H	20	-7.571	-3.308	-15.082	1.00	38.88	H	C
ATOM	6953	CG1	VAL	H	20	-6.553	-2.688	-14.164	1.00	38.24	H	C
ATOM	6957	CG2	VAL	H	20	-7.009	-3.439	-16.482	1.00	35.76	H	C
ATOM	6961	C	VAL	H	20	-8.565	-4.605	-13.167	1.00	41.65	H	C
ATOM	6962	O	VAL	H	20	-9.737	-4.277	-12.966	1.00	42.26	H	O
ATOM	6964	N	SER	H	21	-7.724	-4.909	-12.184	1.00	43.70	H	N
ATOM	6965	CA	SER	H	21	-8.123	-4.855	-10.788	1.00	41.09	H	C
ATOM	6967	CB	SER	H	21	-7.819	-6.172	-10.052	1.00	48.51	H	C
ATOM	6970	OG	SER	H	21	-6.435	-6.461	-9.991	1.00	52.42	H	O
ATOM	6972	C	SER	H	21	-7.475	-3.681	-10.076	1.00	42.88	H	C
ATOM	6973	O	SER	H	21	-6.356	-3.258	-10.417	1.00	41.68	H	O
ATOM	6975	N	CYS	H	22	-8.215	-3.147	-9.102	1.00	42.75	H	N
ATOM	6976	CA	CYS	H	22	-7.755	-2.100	-8.217	1.00	40.50	H	C
ATOM	6978	CB	CYS	H	22	-8.450	-0.763	-8.548	1.00	41.81	H	C
ATOM	6981	SG	CYS	H	22	-7.980	0.592	-7.398	1.00	42.41	H	S
ATOM	6983	C	CYS	H	22	-8.043	-2.521	-6.761	1.00	38.28	H	C
ATOM	6984	O	CYS	H	22	-9.115	-2.229	-6.220	1.00	37.51	H	O
ATOM	6986	N	LYS	H	23	-7.069	-3.177	-6.132	1.00	40.57	H	N
ATOM	6987	CA	LYS	H	23	-7.179	-3.620	-4.737	1.00	43.95	H	C
ATOM	6989	CB	LYS	H	23	-6.211	-4.775	-4.438	1.00	48.68	H	C
ATOM	6992	CG	LYS	H	23	-6.407	-6.037	-5.293	1.00	58.62	H	C
ATOM	6995	CD	LYS	H	23	-5.069	-6.752	-5.685	1.00	59.16	H	C
ATOM	6998	CE	LYS	H	23	-4.404	-7.554	-4.541	1.00	62.49	H	C
ATOM	7001	NZ	LYS	H	23	-2.913	-7.774	-4.753	1.00	57.21	H	N
ATOM	7005	C	LYS	H	23	-6.856	-2.463	-3.776	1.00	41.66	H	C
ATOM	7006	O	LYS	H	23	-5.757	-1.921	-3.793	1.00	41.41	H	O
ATOM	7008	N	ALA	H	24	-7.812	-2.120	-2.922	1.00	39.41	H	N
ATOM	7009	CA	ALA	H	24	-7.690	-1.004	-2.000	1.00	37.89	H	C
ATOM	7011	CB	ALA	H	24	-9.002	-0.198	-2.011	1.00	29.31	H	C
ATOM	7015	C	ALA	H	24	-7.404	-1.516	-0.592	1.00	37.96	H	C
ATOM	7016	O	ALA	H	24	-7.988	-2.511	-0.147	1.00	35.64	H	O
ATOM	7018	N	SER	H	25	-6.524	-0.826	0.123	1.00	41.16	H	N
ATOM	7019	CA	SER	H	25	-6.249	-1.171	1.532	1.00	40.67	H	C
ATOM	7021	CB	SER	H	25	-4.960	-2.028	1.679	1.00	38.85	H	C
ATOM	7024	OG	SER	H	25	-4.445	-2.478	0.422	1.00	45.75	H	O
ATOM	7026	C	SER	H	25	-6.133	0.115	2.363	1.00	38.77	H	C
ATOM	7027	O	SER	H	25	-5.933	1.184	1.829	1.00	36.88	H	O
ATOM	7029	N	GLY	H	26	-6.230	-0.018	3.674	1.00	39.12	H	N
ATOM	7030	CA	GLY	H	26	-5.881	1.061	4.588	1.00	39.22	H	C
ATOM	7033	C	GLY	H	26	-7.044	1.945	5.013	1.00	40.31	H	C
ATOM	7034	O	GLY	H	26	-6.873	2.920	5.770	1.00	43.74	H	O
ATOM	7036	N	TYR	H	27	-8.227	1.611	4.519	1.00	36.28	H	N
ATOM	7037	CA	TYR	H	27	-9.412	2.398	4.767	1.00	35.38	H	C
ATOM	7039	CB	TYR	H	27	-9.430	3.663	3.895	1.00	35.94	H	C
ATOM	7042	CG	TYR	H	27	-9.750	3.425	2.427	1.00	35.71	H	C

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ATOM	7043	CD1	TYR	H	27	-11.055	3.634	1.924	1.00	37.41	H	C
ATOM	7045	CE1	TYR	H	27	-11.352	3.421	0.587	1.00	34.95	H	C
ATOM	7047	CZ	TYR	H	27	-10.334	3.005	-0.276	1.00	35.55	H	C
ATOM	7048	OH	TYR	H	27	-10.588	2.801	-1.608	1.00	33.27	H	O
ATOM	7050	CE2	TYR	H	27	-9.043	2.801	0.201	1.00	36.94	H	C
ATOM	7052	CD2	TYR	H	27	-8.760	3.004	1.543	1.00	34.54	H	C
ATOM	7054	C	TYR	H	27	-10.669	1.571	4.499	1.00	34.75	H	C
ATOM	7055	O	TYR	H	27	-10.593	0.443	4.033	1.00	31.57	H	O
ATOM	7057	N	THR	H	28	-11.830	2.143	4.794	1.00	38.68	H	N
ATOM	7058	CA	THR	H	28	-13.099	1.443	4.547	1.00	37.61	H	C
ATOM	7060	CB	THR	H	28	-14.251	1.933	5.486	1.00	40.36	H	C
ATOM	7062	OG1	THR	H	28	-13.831	1.847	6.849	1.00	42.52	H	O
ATOM	7064	CG2	THR	H	28	-15.532	1.066	5.301	1.00	42.93	H	C
ATOM	7068	C	THR	H	28	-13.557	1.602	3.092	1.00	37.95	H	C
ATOM	7069	O	THR	H	28	-14.098	2.634	2.707	1.00	37.82	H	O
ATOM	7071	N	PHE	H	29	-13.371	0.546	2.310	1.00	39.48	H	N
ATOM	7072	CA	PHE	H	29	-13.672	0.529	0.880	1.00	38.21	H	C
ATOM	7074	CB	PHE	H	29	-13.834	-0.916	0.449	1.00	37.30	H	C
ATOM	7077	CG	PHE	H	29	-13.892	-1.125	-1.039	1.00	40.52	H	C
ATOM	7078	CD1	PHE	H	29	-12.870	-0.680	-1.864	1.00	40.12	H	C
ATOM	7080	CE1	PHE	H	29	-12.923	-0.894	-3.248	1.00	37.44	H	C
ATOM	7082	CZ	PHE	H	29	-13.995	-1.588	-3.806	1.00	37.58	H	C
ATOM	7084	CE2	PHE	H	29	-14.997	-2.065	-3.002	1.00	35.77	H	C
ATOM	7086	CD2	PHE	H	29	-14.944	-1.842	-1.611	1.00	40.68	H	C
ATOM	7088	C	PHE	H	29	-14.948	1.302	0.521	1.00	38.70	H	C
ATOM	7089	O	PHE	H	29	-14.979	2.115	-0.428	1.00	36.24	H	O
ATOM	7091	N	THR	H	30	-15.999	1.045	1.288	1.00	39.29	H	N
ATOM	7092	CA	THR	H	30	-17.344	1.533	0.949	1.00	36.64	H	C
ATOM	7094	CB	THR	H	30	-18.502	0.663	1.541	1.00	37.48	H	C
ATOM	7096	OG1	THR	H	30	-18.355	0.537	2.961	1.00	34.24	H	O
ATOM	7098	CG2	THR	H	30	-18.565	-0.711	0.881	1.00	31.39	H	C
ATOM	7102	C	THR	H	30	-17.612	2.965	1.380	1.00	35.00	H	C
ATOM	7103	O	THR	H	30	-18.674	3.504	1.083	1.00	37.71	H	O
ATOM	7105	N	ASN	H	31	-16.675	3.591	2.078	1.00	36.04	H	N
ATOM	7106	CA	ASN	H	31	-16.818	5.004	2.397	1.00	37.44	H	C
ATOM	7108	CB	ASN	H	31	-15.923	5.374	3.588	1.00	44.04	H	C
ATOM	7111	CG	ASN	H	31	-16.546	4.994	4.922	1.00	43.80	H	C
ATOM	7112	OD1	ASN	H	31	-17.609	4.348	4.970	1.00	37.35	H	O
ATOM	7113	ND2	ASN	H	31	-15.887	5.398	6.019	1.00	43.42	H	N
ATOM	7116	C	ASN	H	31	-16.531	5.926	1.208	1.00	33.99	H	C
ATOM	7117	O	ASN	H	31	-16.973	7.077	1.177	1.00	32.67	H	O
ATOM	7119	N	TYR	H	32	-15.780	5.430	0.234	1.00	35.95	H	N
ATOM	7120	CA	TYR	H	32	-15.290	6.251	-0.857	1.00	35.74	H	C
ATOM	7122	CB	TYR	H	32	-13.815	6.484	-0.666	1.00	41.31	H	C
ATOM	7125	CG	TYR	H	32	-13.440	7.234	0.579	1.00	41.68	H	C
ATOM	7126	CD1	TYR	H	32	-13.091	8.567	0.510	1.00	40.27	H	C
ATOM	7128	CE1	TYR	H	32	-12.708	9.262	1.624	1.00	40.72	H	C
ATOM	7130	CZ	TYR	H	32	-12.671	8.648	2.847	1.00	43.51	H	C
ATOM	7131	OH	TYR	H	32	-12.271	9.403	3.940	1.00	43.46	H	O
ATOM	7133	CE2	TYR	H	32	-13.032	7.312	2.962	1.00	43.36	H	C
ATOM	7135	CD2	TYR	H	32	-13.404	6.607	1.817	1.00	41.58	H	C
ATOM	7137	C	TYR	H	32	-15.479	5.508	-2.146	1.00	34.61	H	C
ATOM	7138	O	TYR	H	32	-15.144	4.345	-2.224	1.00	35.22	H	O
ATOM	7140	N	GLY	H	33	-15.980	6.202	-3.168	1.00	37.25	H	N
ATOM	7141	CA	GLY	H	33	-16.134	5.631	-4.502	1.00	34.00	H	C
ATOM	7144	C	GLY	H	33	-14.786	5.504	-5.185	1.00	33.97	H	C
ATOM	7145	O	GLY	H	33	-13.754	5.887	-4.619	1.00	35.49	H	O
ATOM	7147	N	MET	H	34	-14.799	4.984	-6.410	1.00	31.65	H	N
ATOM	7148	CA	MET	H	34	-13.582	4.786	-7.189	1.00	32.60	H	C
ATOM	7150	CB	MET	H	34	-13.293	3.279	-7.315	1.00	34.92	H	C
ATOM	7153	CG	MET	H	34	-11.840	2.878	-7.630	1.00	36.96	H	C
ATOM	7156	SD	MET	H	34	-10.641	3.345	-6.341	1.00	42.66	H	S
ATOM	7157	CE	MET	H	34	-10.978	2.083	-5.110	1.00	38.61	H	C
ATOM	7161	C	MET	H	34	-13.760	5.415	-8.565	1.00	31.99	H	C
ATOM	7162	O	MET	H	34	-14.744	5.126	-9.254	1.00	33.25	H	O
ATOM	7164	N	ASN	H	35	-12.827	6.291	-8.955	1.00	29.67	H	N
ATOM	7165	CA	ASN	H	35	-12.793	6.829	-10.316	1.00	30.93	H	C
ATOM	7167	CB	ASN	H	35	-12.310	8.270	-10.329	1.00	38.41	H	C

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ATOM	7170	CG	ASN	H	35	-13.121	9.159	-9.433	1.00	36.55	H	C
ATOM	7171	OD1	ASN	H	35	-14.293	8.883	-9.170	1.00	35.28	H	O
ATOM	7172	ND2	ASN	H	35	-12.505	10.241	-8.956	1.00	34.90	H	N
ATOM	7175	C	ASN	H	35	-11.868	5.999	-11.188	1.00	29.55	H	C
ATOM	7176	O	ASN	H	35	-10.906	5.403	-10.694	1.00	29.61	H	O
ATOM	7178	N	TRP	H	36	-12.186	5.946	-12.478	1.00	33.67	H	N
ATOM	7179	CA	TRP	H	36	-11.316	5.339	-13.479	1.00	32.57	H	C
ATOM	7181	CB	TRP	H	36	-12.054	4.189	-14.174	1.00	34.47	H	C
ATOM	7184	CG	TRP	H	36	-12.151	2.998	-13.278	1.00	36.68	H	C
ATOM	7185	CD1	TRP	H	36	-13.222	2.629	-12.476	1.00	34.33	H	C
ATOM	7187	NE1	TRP	H	36	-12.907	1.493	-11.779	1.00	33.27	H	N
ATOM	7189	CE2	TRP	H	36	-11.626	1.104	-12.100	1.00	35.81	H	C
ATOM	7190	CD2	TRP	H	36	-11.120	2.033	-13.037	1.00	37.28	H	C
ATOM	7191	CE3	TRP	H	36	-9.820	1.854	-13.531	1.00	36.98	H	C
ATOM	7193	CZ3	TRP	H	36	-9.071	0.759	-13.070	1.00	35.74	H	C
ATOM	7195	CH2	TRP	H	36	-9.615	-0.149	-12.152	1.00	34.72	H	C
ATOM	7197	CZ2	TRP	H	36	-10.879	0.000	-11.665	1.00	34.45	H	C
ATOM	7199	C	TRP	H	36	-10.838	6.401	-14.472	1.00	31.55	H	C
ATOM	7200	O	TRP	H	36	-11.616	7.241	-14.929	1.00	33.50	H	O
ATOM	7202	N	VAL	H	37	-9.545	6.376	-14.770	1.00	35.31	H	N
ATOM	7203	CA	VAL	H	37	-8.907	7.379	-15.621	1.00	32.74	H	C
ATOM	7205	CB	VAL	H	37	-8.078	8.327	-14.728	1.00	35.31	H	C
ATOM	7207	CG1	VAL	H	37	-7.252	9.344	-15.548	1.00	31.80	H	C
ATOM	7211	CG2	VAL	H	37	-9.002	9.029	-13.700	1.00	28.38	H	C
ATOM	7215	C	VAL	H	37	-8.028	6.653	-16.652	1.00	34.51	H	C
ATOM	7216	O	VAL	H	37	-7.355	5.664	-16.328	1.00	31.66	H	O
ATOM	7218	N	ARG	H	38	-8.072	7.129	-17.891	1.00	35.53	H	N
ATOM	7219	CA	ARG	H	38	-7.304	6.561	-18.998	1.00	36.02	H	C
ATOM	7221	CB	ARG	H	38	-8.285	6.245	-20.125	1.00	38.86	H	C
ATOM	7224	CG	ARG	H	38	-7.703	5.713	-21.398	1.00	38.77	H	C
ATOM	7227	CD	ARG	H	38	-8.786	5.655	-22.452	1.00	42.62	H	C
ATOM	7230	NE	ARG	H	38	-8.282	5.229	-23.748	1.00	44.69	H	N
ATOM	7232	CZ	ARG	H	38	-8.094	6.013	-24.818	1.00	56.14	H	C
ATOM	7233	NH1	ARG	H	38	-8.361	7.312	-24.800	1.00	57.13	H	N
ATOM	7236	NH2	ARG	H	38	-7.634	5.483	-25.941	1.00	56.02	H	N
ATOM	7239	C	ARG	H	38	-6.248	7.552	-19.509	1.00	34.09	H	C
ATOM	7240	O	ARG	H	38	-6.507	8.747	-19.595	1.00	30.74	H	O
ATOM	7242	N	GLN	H	39	-5.064	7.057	-19.862	1.00	32.78	H	N
ATOM	7243	CA	GLN	H	39	-4.079	7.870	-20.594	1.00	32.90	H	C
ATOM	7245	CB	GLN	H	39	-2.996	8.369	-19.663	1.00	30.72	H	C
ATOM	7248	CG	GLN	H	39	-2.163	9.503	-20.270	1.00	34.90	H	C
ATOM	7251	CD	GLN	H	39	-1.277	10.138	-19.245	1.00	36.13	H	C
ATOM	7252	OE1	GLN	H	39	-0.820	9.471	-18.315	1.00	42.34	H	O
ATOM	7253	NE2	GLN	H	39	-1.023	11.423	-19.396	1.00	39.51	H	N
ATOM	7256	C	GLN	H	39	-3.435	7.106	-21.746	1.00	36.84	H	C
ATOM	7257	O	GLN	H	39	-2.567	6.241	-21.542	1.00	39.35	H	O
ATOM	7259	N	ALA	H	40	-3.882	7.403	-22.960	1.00	38.89	H	N
ATOM	7260	CA	ALA	H	40	-3.262	6.842	-24.145	1.00	39.82	H	C
ATOM	7262	CB	ALA	H	40	-4.056	7.213	-25.394	1.00	35.21	H	C
ATOM	7266	C	ALA	H	40	-1.825	7.387	-24.228	1.00	43.70	H	C
ATOM	7267	O	ALA	H	40	-1.533	8.460	-23.664	1.00	43.29	H	O
ATOM	7269	N	PRO	H	41	-0.925	6.656	-24.922	1.00	44.16	H	N
ATOM	7270	CA	PRO	H	41	0.473	7.054	-24.945	1.00	48.23	H	C
ATOM	7272	CB	PRO	H	41	1.143	5.956	-25.785	1.00	51.01	H	C
ATOM	7275	CG	PRO	H	41	0.213	4.784	-25.668	1.00	48.33	H	C
ATOM	7278	CD	PRO	H	41	-1.136	5.419	-25.693	1.00	47.24	H	C
ATOM	7281	C	PRO	H	41	0.718	8.454	-25.521	1.00	47.09	H	C
ATOM	7282	O	PRO	H	41	0.339	8.746	-26.653	1.00	47.59	H	O
ATOM	7283	N	GLY	H	42	1.313	9.313	-24.699	1.00	48.32	H	N
ATOM	7284	CA	GLY	H	42	1.620	10.688	-25.081	1.00	49.56	H	C
ATOM	7287	C	GLY	H	42	0.422	11.629	-25.108	1.00	51.19	H	C
ATOM	7288	O	GLY	H	42	0.553	12.770	-25.570	1.00	54.61	H	O
ATOM	7290	N	GLN	H	43	-0.739	11.168	-24.637	1.00	48.17	H	N
ATOM	7291	CA	GLN	H	43	-1.971	11.970	-24.663	1.00	43.52	H	C
ATOM	7293	CB	GLN	H	43	-3.107	11.147	-25.249	1.00	47.91	H	C
ATOM	7296	CG	GLN	H	43	-2.807	10.646	-26.641	1.00	54.23	H	C
ATOM	7299	CD	GLN	H	43	-2.197	11.728	-27.493	1.00	61.41	H	C
ATOM	7300	OE1	GLN	H	43	-0.988	11.758	-27.695	1.00	65.50	H	O

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ATOM	7301	NE2	GLN	H	43	-3.025	12.658	-27.957	1.00	65.88	H	N
ATOM	7304	C	GLN	H	43	-2.324	12.454	-23.269	1.00	39.74	H	C
ATOM	7305	O	GLN	H	43	-1.603	12.178	-22.322	1.00	39.98	H	O
ATOM	7307	N	GLY	H	44	-3.415	13.200	-23.142	1.00	35.42	H	N
ATOM	7308	CA	GLY	H	44	-3.819	13.714	-21.854	1.00	34.85	H	C
ATOM	7311	C	GLY	H	44	-4.646	12.716	-21.063	1.00	34.31	H	C
ATOM	7312	O	GLY	H	44	-4.988	11.640	-21.557	1.00	37.19	H	O
ATOM	7314	N	LEU	H	45	-4.964	13.100	-19.826	1.00	34.18	H	N
ATOM	7315	CA	LEU	H	45	-5.808	12.312	-18.921	1.00	32.85	H	C
ATOM	7317	CB	LEU	H	45	-5.637	12.817	-17.487	1.00	34.12	H	C
ATOM	7320	CG	LEU	H	45	-4.291	12.714	-16.771	1.00	33.64	H	C
ATOM	7322	CD1	LEU	H	45	-4.379	13.432	-15.423	1.00	34.35	H	C
ATOM	7326	CD2	LEU	H	45	-3.853	11.271	-16.562	1.00	36.29	H	C
ATOM	7330	C	LEU	H	45	-7.292	12.380	-19.313	1.00	31.68	H	C
ATOM	7331	O	LEU	H	45	-7.785	13.421	-19.706	1.00	32.19	H	O
ATOM	7333	N	GLU	H	46	-7.989	11.253	-19.177	1.00	35.41	H	N
ATOM	7334	CA	GLU	H	46	-9.391	11.116	-19.540	1.00	35.81	H	C
ATOM	7336	CB	GLU	H	46	-9.554	10.252	-20.769	1.00	37.73	H	C
ATOM	7339	CG	GLU	H	46	-9.007	10.885	-22.006	1.00	43.61	H	C
ATOM	7342	CD	GLU	H	46	-9.023	9.930	-23.159	1.00	45.03	H	C
ATOM	7343	OE1	GLU	H	46	-7.937	9.384	-23.474	1.00	50.98	H	O
ATOM	7344	OE2	GLU	H	46	-10.114	9.712	-23.727	1.00	46.27	H	O
ATOM	7345	C	GLU	H	46	-10.149	10.442	-18.435	1.00	35.60	H	C
ATOM	7346	O	GLU	H	46	-9.874	9.274	-18.126	1.00	31.88	H	O
ATOM	7348	N	TRP	H	47	-11.102	11.193	-17.871	1.00	32.10	H	N
ATOM	7349	CA	TRP	H	47	-11.984	10.729	-16.860	1.00	34.63	H	C
ATOM	7351	CB	TRP	H	47	-12.703	11.940	-16.219	1.00	37.13	H	C
ATOM	7354	CG	TRP	H	47	-13.132	11.655	-14.831	1.00	36.26	H	C
ATOM	7355	CD1	TRP	H	47	-12.384	11.776	-13.708	1.00	35.96	H	C
ATOM	7357	NE1	TRP	H	47	-13.101	11.383	-12.621	1.00	35.97	H	N
ATOM	7359	CE2	TRP	H	47	-14.339	10.968	-13.039	1.00	34.00	H	C
ATOM	7360	CD2	TRP	H	47	-14.385	11.120	-14.430	1.00	33.29	H	C
ATOM	7361	CE3	TRP	H	47	-15.562	10.787	-15.115	1.00	36.82	H	C
ATOM	7363	CZ3	TRP	H	47	-16.628	10.326	-14.407	1.00	36.76	H	C
ATOM	7365	CH2	TRP	H	47	-16.552	10.180	-13.005	1.00	38.30	H	C
ATOM	7367	CZ2	TRP	H	47	-15.412	10.493	-12.313	1.00	35.51	H	C
ATOM	7369	C	TRP	H	47	-12.998	9.743	-17.475	1.00	36.24	H	C
ATOM	7370	O	TRP	H	47	-13.868	10.118	-18.265	1.00	35.47	H	O
ATOM	7372	N	MET	H	48	-12.883	8.477	-17.116	1.00	33.60	H	N
ATOM	7373	CA	MET	H	48	-13.699	7.437	-17.743	1.00	36.97	H	C
ATOM	7375	CB	MET	H	48	-12.994	6.080	-17.639	1.00	36.09	H	C
ATOM	7378	CG	MET	H	48	-11.743	6.010	-18.455	1.00	37.06	H	C
ATOM	7381	SD	MET	H	48	-10.894	4.444	-18.220	1.00	38.14	H	S
ATOM	7382	CE	MET	H	48	-12.035	3.348	-19.051	1.00	32.38	H	C
ATOM	7386	C	MET	H	48	-15.064	7.306	-17.100	1.00	37.72	H	C
ATOM	7387	O	MET	H	48	-16.097	7.131	-17.785	1.00	39.03	H	O
ATOM	7389	N	GLY	H	49	-15.052	7.333	-15.777	1.00	37.51	H	N
ATOM	7390	CA	GLY	H	49	-16.256	7.129	-15.007	1.00	39.63	H	C
ATOM	7393	C	GLY	H	49	-15.994	6.916	-13.528	1.00	38.13	H	C
ATOM	7394	O	GLY	H	49	-14.855	6.938	-13.085	1.00	37.98	H	O
ATOM	7396	N	TRP	H	50	-17.085	6.742	-12.784	1.00	38.96	H	N
ATOM	7397	CA	TRP	H	50	-17.083	6.476	-11.354	1.00	39.32	H	C
ATOM	7399	CB	TRP	H	50	-17.660	7.734	-10.655	1.00	40.19	H	C
ATOM	7402	CG	TRP	H	50	-18.758	7.566	-9.643	1.00	36.03	H	C
ATOM	7403	CD1	TRP	H	50	-20.037	7.212	-9.882	1.00	36.96	H	C
ATOM	7405	NE1	TRP	H	50	-20.752	7.178	-8.701	1.00	36.57	H	N
ATOM	7407	CE2	TRP	H	50	-19.929	7.539	-7.672	1.00	34.53	H	C
ATOM	7408	CD2	TRP	H	50	-18.664	7.804	-8.224	1.00	35.85	H	C
ATOM	7409	CE3	TRP	H	50	-17.621	8.178	-7.368	1.00	36.68	H	C
ATOM	7411	CZ3	TRP	H	50	-17.877	8.304	-6.023	1.00	36.79	H	C
ATOM	7413	CH2	TRP	H	50	-19.147	8.033	-5.495	1.00	37.80	H	C
ATOM	7415	CZ2	TRP	H	50	-20.189	7.658	-6.305	1.00	39.26	H	C
ATOM	7417	C	TRP	H	50	-17.912	5.214	-11.050	1.00	39.23	H	C
ATOM	7418	O	TRP	H	50	-18.866	4.912	-11.765	1.00	35.89	H	O
ATOM	7420	N	ILE	H	51	-17.498	4.458	-10.027	1.00	37.83	H	N
ATOM	7421	CA	ILE	H	51	-18.346	3.431	-9.438	1.00	38.80	H	C
ATOM	7423	CB	ILE	H	51	-17.781	1.991	-9.645	1.00	40.46	H	C
ATOM	7425	CG1	ILE	H	51	-18.849	0.935	-9.250	1.00	40.79	H	C

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ATOM	7428	CD1	ILE	H	51	-18.888	-0.324	-10.148	1.00	39.97	H	C
ATOM	7432	CG2	ILE	H	51	-16.478	1.826	-8.878	1.00	34.34	H	C
ATOM	7436	C	ILE	H	51	-18.558	3.715	-7.946	1.00	38.29	H	C
ATOM	7437	O	ILE	H	51	-17.622	3.918	-7.198	1.00	36.10	H	O
ATOM	7439	N	ASN	H	52	-19.815	3.750	-7.529	1.00	38.79	H	N
ATOM	7440	CA	ASN	H	52	-20.145	3.912	-6.122	1.00	36.28	H	C
ATOM	7442	CB	ASN	H	52	-21.585	4.396	-5.980	1.00	33.26	H	C
ATOM	7445	CG	ASN	H	52	-21.943	4.749	-4.565	1.00	35.45	H	C
ATOM	7446	OD1	ASN	H	52	-21.675	3.994	-3.632	1.00	35.68	H	O
ATOM	7447	ND2	ASN	H	52	-22.579	5.892	-4.394	1.00	33.30	H	N
ATOM	7450	C	ASN	H	52	-19.929	2.573	-5.432	1.00	35.39	H	C
ATOM	7451	O	ASN	H	52	-20.619	1.623	-5.733	1.00	31.82	H	O
ATOM	7453	N	THR	H	53	-18.952	2.514	-4.523	1.00	38.91	H	N
ATOM	7454	CA	THR	H	53	-18.562	1.264	-3.858	1.00	37.86	H	C
ATOM	7456	CB	THR	H	53	-17.205	1.426	-3.213	1.00	35.94	H	C
ATOM	7458	OG1	THR	H	53	-17.259	2.561	-2.347	1.00	37.41	H	O
ATOM	7460	CG2	THR	H	53	-16.151	1.637	-4.270	1.00	38.55	H	C
ATOM	7464	C	THR	H	53	-19.512	0.827	-2.752	1.00	38.34	H	C
ATOM	7465	O	THR	H	53	-19.355	-0.272	-2.198	1.00	39.70	H	O
ATOM	7467	N	TYR	H	54	-20.434	1.715	-2.377	1.00	38.18	H	N
ATOM	7468	CA	TYR	H	54	-21.450	1.423	-1.356	1.00	36.73	H	C
ATOM	7470	CB	TYR	H	54	-21.900	2.695	-0.615	1.00	37.16	H	C
ATOM	7473	CG	TYR	H	54	-22.821	2.452	0.575	1.00	36.13	H	C
ATOM	7474	CD1	TYR	H	54	-22.395	2.720	1.874	1.00	37.48	H	C
ATOM	7476	CE1	TYR	H	54	-23.233	2.515	2.979	1.00	36.84	H	C
ATOM	7478	CZ	TYR	H	54	-24.515	2.023	2.795	1.00	37.51	H	C
ATOM	7479	OH	TYR	H	54	-25.336	1.799	3.895	1.00	36.82	H	O
ATOM	7481	CE2	TYR	H	54	-24.969	1.747	1.508	1.00	36.73	H	C
ATOM	7483	CD2	TYR	H	54	-24.116	1.963	0.406	1.00	38.87	H	C
ATOM	7485	C	TYR	H	54	-22.674	0.820	-2.046	1.00	40.64	H	C
ATOM	7486	O	TYR	H	54	-23.216	-0.193	-1.606	1.00	41.79	H	O
ATOM	7488	N	THR	H	55	-23.106	1.475	-3.128	1.00	41.00	H	N
ATOM	7489	CA	THR	H	55	-24.347	1.132	-3.814	1.00	39.47	H	C
ATOM	7491	CB	THR	H	55	-25.219	2.353	-4.178	1.00	41.85	H	C
ATOM	7493	OG1	THR	H	55	-24.547	3.137	-5.179	1.00	47.24	H	O
ATOM	7495	CG2	THR	H	55	-25.520	3.196	-2.951	1.00	38.40	H	C
ATOM	7499	C	THR	H	55	-24.128	0.369	-5.123	1.00	41.26	H	C
ATOM	7500	O	THR	H	55	-25.051	-0.249	-5.634	1.00	43.37	H	O
ATOM	7502	N	GLY	H	56	-22.929	0.432	-5.695	1.00	40.36	H	N
ATOM	7503	CA	GLY	H	56	-22.648	-0.288	-6.935	1.00	38.27	H	C
ATOM	7506	C	GLY	H	56	-23.104	0.435	-8.179	1.00	39.84	H	C
ATOM	7507	O	GLY	H	56	-22.891	-0.067	-9.277	1.00	42.42	H	O
ATOM	7509	N	GLU	H	57	-23.731	1.605	-8.020	1.00	40.68	H	N
ATOM	7510	CA	GLU	H	57	-24.110	2.440	-9.145	1.00	40.64	H	C
ATOM	7512	CB	GLU	H	57	-24.850	3.707	-8.703	1.00	45.68	H	C
ATOM	7515	CG	GLU	H	57	-26.209	3.510	-8.059	1.00	49.60	H	C
ATOM	7518	CD	GLU	H	57	-26.622	4.723	-7.233	1.00	53.37	H	C
ATOM	7519	OE1	GLU	H	57	-26.283	4.748	-6.024	1.00	58.46	H	O
ATOM	7520	OE2	GLU	H	57	-27.250	5.653	-7.791	1.00	54.24	H	O
ATOM	7521	C	GLU	H	57	-22.850	2.895	-9.848	1.00	40.80	H	C
ATOM	7522	O	GLU	H	57	-21.774	2.989	-9.230	1.00	37.28	H	O
ATOM	7524	N	THR	H	58	-23.022	3.233	-11.125	1.00	40.14	H	N
ATOM	7525	CA	THR	H	58	-21.928	3.623	-12.004	1.00	39.91	H	C
ATOM	7527	CB	THR	H	58	-21.513	2.460	-12.948	1.00	39.54	H	C
ATOM	7529	OG1	THR	H	58	-22.618	2.082	-13.797	1.00	37.19	H	O
ATOM	7531	CG2	THR	H	58	-21.034	1.230	-12.122	1.00	32.89	H	C
ATOM	7535	C	THR	H	58	-22.320	4.823	-12.843	1.00	42.95	H	C
ATOM	7536	O	THR	H	58	-23.486	4.991	-13.209	1.00	40.76	H	O
ATOM	7538	N	THR	H	59	-21.340	5.670	-13.155	1.00	43.98	H	N
ATOM	7539	CA	THR	H	59	-21.551	6.746	-14.110	1.00	40.17	H	C
ATOM	7541	CB	THR	H	59	-21.780	8.100	-13.446	1.00	43.00	H	C
ATOM	7543	OG1	THR	H	59	-22.850	7.994	-12.495	1.00	48.02	H	O
ATOM	7545	CG2	THR	H	59	-22.155	9.137	-14.505	1.00	40.84	H	C
ATOM	7549	C	THR	H	59	-20.362	6.844	-15.047	1.00	42.75	H	C
ATOM	7550	O	THR	H	59	-19.200	6.909	-14.617	1.00	44.86	H	O
ATOM	7552	N	TYR	H	60	-20.670	6.883	-16.336	1.00	42.67	H	N
ATOM	7553	CA	TYR	H	60	-19.669	6.815	-17.376	1.00	41.64	H	C
ATOM	7555	CB	TYR	H	60	-20.005	5.669	-18.335	1.00	40.97	H	C

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ATOM	7558	CG	TYR	H	60	-19.934	4.312	-17.691	1.00	39.33	H	C
ATOM	7559	CD1	TYR	H	60	-18.714	3.625	-17.607	1.00	41.14	H	C
ATOM	7561	CE1	TYR	H	60	-18.616	2.365	-16.993	1.00	37.37	H	C
ATOM	7563	CZ	TYR	H	60	-19.748	1.768	-16.474	1.00	39.80	H	C
ATOM	7564	OH	TYR	H	60	-19.630	0.527	-15.880	1.00	37.17	H	O
ATOM	7566	CE2	TYR	H	60	-20.990	2.430	-16.542	1.00	40.30	H	C
ATOM	7568	CD2	TYR	H	60	-21.070	3.705	-17.156	1.00	41.49	H	C
ATOM	7570	C	TYR	H	60	-19.649	8.114	-18.135	1.00	43.51	H	C
ATOM	7571	O	TYR	H	60	-20.724	8.630	-18.455	1.00	48.72	H	O
ATOM	7573	N	ALA	H	61	-18.453	8.663	-18.394	1.00	39.52	H	N
ATOM	7574	CA	ALA	H	61	-18.314	9.770	-19.367	1.00	43.93	H	C
ATOM	7576	CB	ALA	H	61	-16.870	10.281	-19.472	1.00	30.30	H	C
ATOM	7580	C	ALA	H	61	-18.799	9.292	-20.732	1.00	43.44	H	C
ATOM	7581	O	ALA	H	61	-18.673	8.109	-21.046	1.00	42.24	H	O
ATOM	7583	N	ASP	H	62	-19.316	10.219	-21.542	1.00	47.04	H	N
ATOM	7584	CA	ASP	H	62	-20.018	9.892	-22.795	1.00	49.58	H	C
ATOM	7586	CB	ASP	H	62	-20.350	11.153	-23.600	1.00	54.89	H	C
ATOM	7589	CG	ASP	H	62	-21.487	11.955	-23.016	1.00	62.22	H	C
ATOM	7590	OD1	ASP	H	62	-21.716	13.061	-23.548	1.00	65.69	H	O
ATOM	7591	OD2	ASP	H	62	-22.150	11.504	-22.045	1.00	68.12	H	O
ATOM	7592	C	ASP	H	62	-19.240	8.987	-23.722	1.00	50.77	H	C
ATOM	7593	O	ASP	H	62	-19.819	8.128	-24.385	1.00	52.70	H	O
ATOM	7595	N	ASP	H	63	-17.941	9.229	-23.832	1.00	53.52	H	N
ATOM	7596	CA	ASP	H	63	-17.090	8.339	-24.587	1.00	54.70	H	C
ATOM	7598	CB	ASP	H	63	-15.623	8.795	-24.534	1.00	59.08	H	C
ATOM	7601	CG	ASP	H	63	-15.343	9.977	-25.457	1.00	65.05	H	C
ATOM	7602	OD1	ASP	H	63	-14.409	9.864	-26.285	1.00	71.29	H	O
ATOM	7603	OD2	ASP	H	63	-16.051	11.008	-25.374	1.00	64.78	H	O
ATOM	7604	C	ASP	H	63	-17.336	6.992	-23.936	1.00	55.97	H	C
ATOM	7605	O	ASP	H	63	-18.417	6.438	-24.059	1.00	65.01	H	O
ATOM	7607	N	PHE	H	64	-16.371	6.456	-23.242	1.00	53.68	H	N
ATOM	7608	CA	PHE	H	64	-16.541	5.266	-22.378	1.00	49.07	H	C
ATOM	7610	CB	PHE	H	64	-15.792	5.621	-21.101	1.00	43.07	H	C
ATOM	7613	CG	PHE	H	64	-14.468	6.256	-21.408	1.00	39.83	H	C
ATOM	7614	CD1	PHE	H	64	-13.487	5.512	-22.020	1.00	40.89	H	C
ATOM	7616	CE1	PHE	H	64	-12.283	6.082	-22.363	1.00	41.59	H	C
ATOM	7618	CZ	PHE	H	64	-12.064	7.403	-22.127	1.00	39.53	H	C
ATOM	7620	CE2	PHE	H	64	-13.055	8.168	-21.556	1.00	41.42	H	C
ATOM	7622	CD2	PHE	H	64	-14.257	7.607	-21.231	1.00	36.13	H	C
ATOM	7624	C	PHE	H	64	-17.888	4.559	-22.095	1.00	45.03	H	C
ATOM	7625	O	PHE	H	64	-17.949	3.712	-21.215	1.00	42.22	H	O
ATOM	7627	N	LYS	H	65	-18.939	4.835	-22.860	1.00	49.40	H	N
ATOM	7628	CA	LYS	H	65	-20.220	4.127	-22.704	1.00	52.43	H	C
ATOM	7630	CB	LYS	H	65	-21.396	5.089	-22.988	1.00	51.77	H	C
ATOM	7633	CG	LYS	H	65	-21.591	6.146	-21.892	1.00	52.27	H	C
ATOM	7636	CD	LYS	H	65	-22.718	7.135	-22.234	1.00	52.59	H	C
ATOM	7639	CE	LYS	H	65	-23.069	8.028	-21.039	1.00	53.37	H	C
ATOM	7642	NZ	LYS	H	65	-24.035	9.149	-21.372	1.00	56.07	H	N
ATOM	7646	C	LYS	H	65	-20.284	2.865	-23.595	1.00	51.32	H	C
ATOM	7647	O	LYS	H	65	-20.014	2.911	-24.783	1.00	57.14	H	O
ATOM	7649	N	GLY	H	66	-20.622	1.729	-23.015	1.00	52.70	H	N
ATOM	7650	CA	GLY	H	66	-20.807	0.515	-23.811	1.00	52.02	H	C
ATOM	7653	C	GLY	H	66	-19.810	-0.583	-23.496	1.00	49.51	H	C
ATOM	7654	O	GLY	H	66	-20.147	-1.535	-22.765	1.00	49.25	H	O
ATOM	7656	N	ARG	H	67	-18.593	-0.449	-24.045	1.00	48.43	H	N
ATOM	7657	CA	ARG	H	67	-17.540	-1.471	-23.922	1.00	45.13	H	C
ATOM	7659	CB	ARG	H	67	-16.489	-1.243	-25.010	1.00	49.01	H	C
ATOM	7662	CG	ARG	H	67	-17.027	-1.252	-26.425	1.00	50.37	H	C
ATOM	7665	CD	ARG	H	67	-15.939	-1.428	-27.496	1.00	47.48	H	C
ATOM	7668	NE	ARG	H	67	-15.063	-0.259	-27.624	1.00	46.18	H	N
ATOM	7670	CZ	ARG	H	67	-13.796	-0.196	-27.208	1.00	46.87	H	C
ATOM	7671	NH1	ARG	H	67	-13.216	-1.239	-26.610	1.00	47.13	H	N
ATOM	7674	NH2	ARG	H	67	-13.097	0.918	-27.396	1.00	42.78	H	N
ATOM	7677	C	ARG	H	67	-16.811	-1.484	-22.574	1.00	43.46	H	C
ATOM	7678	O	ARG	H	67	-15.995	-2.384	-22.298	1.00	43.15	H	O
ATOM	7680	N	PHE	H	68	-17.082	-0.485	-21.738	1.00	42.22	H	N
ATOM	7681	CA	PHE	H	68	-16.359	-0.320	-20.482	1.00	41.30	H	C
ATOM	7683	CB	PHE	H	68	-15.761	1.079	-20.397	1.00	41.99	H	C

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ATOM	7686	CG	PHE	H	68	-14.911	1.433	-21.581	1.00	39.74	H	C
ATOM	7687	CD1	PHE	H	68	-13.546	1.311	-21.529	1.00	43.32	H	C
ATOM	7689	CE1	PHE	H	68	-12.764	1.641	-22.634	1.00	44.51	H	C
ATOM	7691	CZ	PHE	H	68	-13.360	2.090	-23.803	1.00	41.12	H	C
ATOM	7693	CE2	PHE	H	68	-14.719	2.217	-23.859	1.00	42.21	H	C
ATOM	7695	CD2	PHE	H	68	-15.491	1.887	-22.753	1.00	41.06	H	C
ATOM	7697	C	PHE	H	68	-17.298	-0.550	-19.318	1.00	39.49	H	C
ATOM	7698	O	PHE	H	68	-18.277	0.165	-19.185	1.00	40.01	H	O
ATOM	7700	N	VAL	H	69	-16.978	-1.527	-18.474	1.00	34.21	H	N
ATOM	7701	CA	VAL	H	69	-17.807	-1.869	-17.346	1.00	34.50	H	C
ATOM	7703	CB	VAL	H	69	-18.503	-3.230	-17.575	1.00	36.75	H	C
ATOM	7705	CG1	VAL	H	69	-19.407	-3.592	-16.386	1.00	32.54	H	C
ATOM	7709	CG2	VAL	H	69	-19.298	-3.202	-18.886	1.00	32.85	H	C
ATOM	7713	C	VAL	H	69	-17.030	-1.875	-16.003	1.00	36.79	H	C
ATOM	7714	O	VAL	H	69	-16.013	-2.564	-15.864	1.00	38.02	H	O
ATOM	7716	N	PHE	H	70	-17.514	-1.098	-15.028	1.00	38.27	H	N
ATOM	7717	CA	PHE	H	70	-16.940	-1.110	-13.684	1.00	36.89	H	C
ATOM	7719	CB	PHE	H	70	-16.991	0.273	-13.014	1.00	37.97	H	C
ATOM	7722	CG	PHE	H	70	-16.513	1.413	-13.883	1.00	37.49	H	C
ATOM	7723	CD1	PHE	H	70	-15.379	1.295	-14.683	1.00	37.10	H	C
ATOM	7725	CE1	PHE	H	70	-14.965	2.340	-15.475	1.00	34.60	H	C
ATOM	7727	CZ	PHE	H	70	-15.654	3.518	-15.461	1.00	38.72	H	C
ATOM	7729	CE2	PHE	H	70	-16.773	3.669	-14.657	1.00	38.62	H	C
ATOM	7731	CD2	PHE	H	70	-17.195	2.616	-13.877	1.00	38.59	H	C
ATOM	7733	C	PHE	H	70	-17.687	-2.121	-12.810	1.00	39.44	H	C
ATOM	7734	O	PHE	H	70	-18.894	-2.287	-12.939	1.00	43.06	H	O
ATOM	7736	N	SER	H	71	-16.959	-2.785	-11.911	1.00	40.67	H	N
ATOM	7737	CA	SER	H	71	-17.557	-3.732	-10.970	1.00	38.04	H	C
ATOM	7739	CB	SER	H	71	-17.685	-5.118	-11.605	1.00	36.07	H	C
ATOM	7742	OG	SER	H	71	-16.426	-5.692	-11.912	1.00	42.12	H	O
ATOM	7744	C	SER	H	71	-16.757	-3.763	-9.666	1.00	39.17	H	C
ATOM	7745	O	SER	H	71	-15.708	-3.092	-9.530	1.00	37.28	H	O
ATOM	7747	N	LEU	H	72	-17.295	-4.502	-8.699	1.00	38.22	H	N
ATOM	7748	CA	LEU	H	72	-16.768	-4.551	-7.346	1.00	41.56	H	C
ATOM	7750	CB	LEU	H	72	-17.707	-3.818	-6.364	1.00	36.01	H	C
ATOM	7753	CG	LEU	H	72	-18.133	-2.370	-6.637	1.00	38.72	H	C
ATOM	7755	CD1	LEU	H	72	-19.197	-1.915	-5.658	1.00	33.87	H	C
ATOM	7759	CD2	LEU	H	72	-16.933	-1.434	-6.565	1.00	42.67	H	C
ATOM	7763	C	LEU	H	72	-16.674	-5.987	-6.878	1.00	44.49	H	C
ATOM	7764	O	LEU	H	72	-17.483	-6.830	-7.290	1.00	43.02	H	O
ATOM	7766	N	ASP	H	73	-15.690	-6.247	-6.019	1.00	44.88	H	N
ATOM	7767	CA	ASP	H	73	-15.768	-7.342	-5.070	1.00	47.36	H	C
ATOM	7769	CB	ASP	H	73	-14.851	-8.519	-5.423	1.00	47.09	H	C
ATOM	7772	CG	ASP	H	73	-15.079	-9.719	-4.515	1.00	45.19	H	C
ATOM	7773	OD1	ASP	H	73	-15.889	-9.635	-3.574	1.00	47.55	H	O
ATOM	7774	OD2	ASP	H	73	-14.453	-10.755	-4.732	1.00	51.84	H	O
ATOM	7775	C	ASP	H	73	-15.424	-6.778	-3.687	1.00	47.48	H	C
ATOM	7776	O	ASP	H	73	-14.252	-6.682	-3.284	1.00	45.49	H	O
ATOM	7778	N	THR	H	74	-16.480	-6.404	-2.982	1.00	48.74	H	N
ATOM	7779	CA	THR	H	74	-16.418	-5.804	-1.663	1.00	50.41	H	C
ATOM	7781	CB	THR	H	74	-17.869	-5.492	-1.227	1.00	50.35	H	C
ATOM	7783	OG1	THR	H	74	-18.374	-4.445	-2.070	1.00	52.92	H	O
ATOM	7785	CG2	THR	H	74	-17.941	-5.063	0.211	1.00	53.62	H	C
ATOM	7789	C	THR	H	74	-15.732	-6.668	-0.602	1.00	54.47	H	C
ATOM	7790	O	THR	H	74	-15.102	-6.146	0.330	1.00	55.52	H	O
ATOM	7792	N	SER	H	75	-15.854	-7.983	-0.756	1.00	55.70	H	N
ATOM	7793	CA	SER	H	75	-15.243	-8.942	0.164	1.00	54.19	H	C
ATOM	7795	CB	SER	H	75	-15.761	-10.359	-0.146	1.00	55.37	H	C
ATOM	7798	OG	SER	H	75	-15.314	-10.810	-1.411	1.00	50.62	H	O
ATOM	7800	C	SER	H	75	-13.702	-8.879	0.166	1.00	53.11	H	C
ATOM	7801	O	SER	H	75	-13.074	-9.078	1.210	1.00	55.62	H	O
ATOM	7803	N	VAL	H	76	-13.112	-8.570	-0.994	1.00	53.20	H	N
ATOM	7804	CA	VAL	H	76	-11.653	-8.381	-1.147	1.00	49.54	H	C
ATOM	7806	CB	VAL	H	76	-11.104	-9.248	-2.321	1.00	50.89	H	C
ATOM	7808	CG1	VAL	H	76	-11.159	-10.737	-1.956	1.00	53.64	H	C
ATOM	7812	CG2	VAL	H	76	-11.850	-8.964	-3.624	1.00	42.57	H	C
ATOM	7816	C	VAL	H	76	-11.279	-6.903	-1.371	1.00	50.15	H	C
ATOM	7817	O	VAL	H	76	-10.124	-6.590	-1.700	1.00	48.48	H	O

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ATOM	7819	N	SER	H	77	-12.265	-6.014	-1.171	1.00	48.22	H	N
ATOM	7820	CA	SER	H	77	-12.145	-4.561	-1.355	1.00	42.63	H	C
ATOM	7822	CB	SER	H	77	-11.592	-3.908	-0.077	1.00	45.66	H	C
ATOM	7825	OG	SER	H	77	-10.193	-3.784	-0.118	1.00	53.93	H	O
ATOM	7827	C	SER	H	77	-11.402	-4.179	-2.666	1.00	38.13	H	C
ATOM	7828	O	SER	H	77	-10.471	-3.362	-2.684	1.00	33.76	H	O
ATOM	7830	N	THR	H	78	-11.857	-4.794	-3.763	1.00	36.24	H	N
ATOM	7831	CA	THR	H	78	-11.273	-4.623	-5.096	1.00	36.51	H	C
ATOM	7833	CB	THR	H	78	-10.782	-5.978	-5.670	1.00	36.43	H	C
ATOM	7835	OG1	THR	H	78	-9.825	-6.550	-4.774	1.00	41.05	H	O
ATOM	7837	CG2	THR	H	78	-10.163	-5.826	-7.081	1.00	35.83	H	C
ATOM	7841	C	THR	H	78	-12.321	-4.058	-6.036	1.00	35.31	H	C
ATOM	7842	O	THR	H	78	-13.494	-4.427	-5.957	1.00	36.20	H	O
ATOM	7844	N	ALA	H	79	-11.882	-3.145	-6.901	1.00	35.17	H	N
ATOM	7845	CA	ALA	H	79	-12.700	-2.614	-7.988	1.00	35.93	H	C
ATOM	7847	CB	ALA	H	79	-12.774	-1.118	-7.934	1.00	33.61	H	C
ATOM	7851	C	ALA	H	79	-12.087	-3.082	-9.298	1.00	35.83	H	C
ATOM	7852	O	ALA	H	79	-10.890	-3.310	-9.370	1.00	34.53	H	O
ATOM	7854	N	TYR	H	80	-12.924	-3.262	-10.317	1.00	38.14	H	N
ATOM	7855	CA	TYR	H	80	-12.489	-3.829	-11.590	1.00	37.74	H	C
ATOM	7857	CB	TYR	H	80	-13.080	-5.225	-11.780	1.00	40.28	H	C
ATOM	7860	CG	TYR	H	80	-12.695	-6.207	-10.713	1.00	40.76	H	C
ATOM	7861	CD1	TYR	H	80	-11.510	-6.967	-10.822	1.00	41.81	H	C
ATOM	7863	CE1	TYR	H	80	-11.146	-7.878	-9.835	1.00	37.71	H	C
ATOM	7865	CZ	TYR	H	80	-11.975	-8.043	-8.732	1.00	42.30	H	C
ATOM	7866	OH	TYR	H	80	-11.643	-8.940	-7.746	1.00	46.15	H	O
ATOM	7868	CE2	TYR	H	80	-13.145	-7.305	-8.601	1.00	40.06	H	C
ATOM	7870	CD2	TYR	H	80	-13.502	-6.395	-9.599	1.00	40.44	H	C
ATOM	7872	C	TYR	H	80	-12.946	-2.982	-12.746	1.00	36.55	H	C
ATOM	7873	O	TYR	H	80	-14.025	-2.403	-12.703	1.00	39.92	H	O
ATOM	7875	N	LEU	H	81	-12.128	-2.917	-13.787	1.00	41.55	H	N
ATOM	7876	CA	LEU	H	81	-12.525	-2.308	-15.048	1.00	41.25	H	C
ATOM	7878	CB	LEU	H	81	-11.556	-1.186	-15.432	1.00	43.83	H	C
ATOM	7881	CG	LEU	H	81	-11.650	-0.664	-16.872	1.00	41.73	H	C
ATOM	7883	CD1	LEU	H	81	-13.006	-0.019	-17.115	1.00	34.95	H	C
ATOM	7887	CD2	LEU	H	81	-10.498	0.305	-17.130	1.00	40.26	H	C
ATOM	7891	C	LEU	H	81	-12.486	-3.396	-16.097	1.00	42.34	H	C
ATOM	7892	O	LEU	H	81	-11.446	-3.966	-16.336	1.00	41.26	H	O
ATOM	7894	N	GLN	H	82	-13.622	-3.669	-16.718	1.00	49.16	H	N
ATOM	7895	CA	GLN	H	82	-13.727	-4.631	-17.801	1.00	44.88	H	C
ATOM	7897	CB	GLN	H	82	-14.975	-5.478	-17.591	1.00	51.09	H	C
ATOM	7900	CG	GLN	H	82	-15.328	-6.451	-18.728	1.00	59.70	H	C
ATOM	7903	CD	GLN	H	82	-14.912	-7.872	-18.435	1.00	64.09	H	C
ATOM	7904	OE1	GLN	H	82	-14.027	-8.420	-19.103	1.00	70.68	H	O
ATOM	7905	NE2	GLN	H	82	-15.529	-8.473	-17.417	1.00	63.38	H	N
ATOM	7908	C	GLN	H	82	-13.853	-3.827	-19.077	1.00	41.52	H	C
ATOM	7909	O	GLN	H	82	-14.709	-2.947	-19.157	1.00	41.03	H	O
ATOM	7911	N	ILE	H	83	-12.983	-4.106	-20.051	1.00	38.81	H	N
ATOM	7912	CA	ILE	H	83	-13.063	-3.525	-21.386	1.00	42.49	H	C
ATOM	7914	CB	ILE	H	83	-11.791	-2.770	-21.770	1.00	39.06	H	C
ATOM	7916	CG1	ILE	H	83	-11.323	-1.899	-20.594	1.00	37.92	H	C
ATOM	7919	CD1	ILE	H	83	-10.135	-0.972	-20.910	1.00	38.49	H	C
ATOM	7923	CG2	ILE	H	83	-12.021	-1.953	-23.083	1.00	35.20	H	C
ATOM	7927	C	ILE	H	83	-13.236	-4.657	-22.367	1.00	44.98	H	C
ATOM	7928	O	ILE	H	83	-12.481	-5.633	-22.317	1.00	46.70	H	O
ATOM	7930	N	SER	H	84	-14.224	-4.538	-23.250	1.00	47.83	H	N
ATOM	7931	CA	SER	H	84	-14.556	-5.611	-24.194	1.00	50.12	H	C
ATOM	7933	CB	SER	H	84	-15.977	-6.108	-23.943	1.00	55.64	H	C
ATOM	7936	OG	SER	H	84	-16.017	-6.907	-22.770	1.00	61.42	H	O
ATOM	7938	C	SER	H	84	-14.411	-5.135	-25.627	1.00	49.84	H	C
ATOM	7939	O	SER	H	84	-14.407	-3.940	-25.874	1.00	48.77	H	O
ATOM	7941	N	SER	H	85	-14.289	-6.081	-26.556	1.00	52.28	H	N
ATOM	7942	CA	SER	H	85	-14.102	-5.796	-27.994	1.00	50.70	H	C
ATOM	7944	CB	SER	H	85	-15.393	-5.301	-28.637	1.00	50.51	H	C
ATOM	7947	OG	SER	H	85	-16.312	-6.368	-28.751	1.00	53.98	H	O
ATOM	7949	C	SER	H	85	-12.923	-4.836	-28.231	1.00	50.77	H	C
ATOM	7950	O	SER	H	85	-13.018	-3.828	-28.952	1.00	46.20	H	O
ATOM	7952	N	LEU	H	86	-11.805	-5.194	-27.610	1.00	50.77	H	N

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ATOM	7953	CA	LEU	H	86	-10.610	-4.363	-27.557	1.00	47.00	H	C
ATOM	7955	CB	LEU	H	86	-9.494	-5.130	-26.799	1.00	45.31	H	C
ATOM	7958	CG	LEU	H	86	-9.113	-4.883	-25.325	1.00	46.04	H	C
ATOM	7960	CD1	LEU	H	86	-10.143	-4.165	-24.507	1.00	42.57	H	C
ATOM	7964	CD2	LEU	H	86	-8.709	-6.161	-24.609	1.00	47.45	H	C
ATOM	7968	C	LEU	H	86	-10.135	-3.962	-28.969	1.00	48.89	H	C
ATOM	7969	O	LEU	H	86	-10.151	-4.774	-29.892	1.00	50.16	H	O
ATOM	7971	N	LYS	H	87	-9.729	-2.708	-29.134	1.00	51.06	H	N
ATOM	7972	CA	LYS	H	87	-9.119	-2.253	-30.375	1.00	52.45	H	C
ATOM	7974	CB	LYS	H	87	-10.035	-1.357	-31.222	1.00	56.18	H	C
ATOM	7977	CG	LYS	H	87	-10.922	-0.375	-30.486	1.00	58.96	H	C
ATOM	7980	CD	LYS	H	87	-11.916	0.209	-31.472	1.00	61.55	H	C
ATOM	7983	CE	LYS	H	87	-12.812	1.290	-30.877	1.00	66.30	H	C
ATOM	7986	NZ	LYS	H	87	-14.279	1.051	-31.184	1.00	68.38	H	N
ATOM	7990	C	LYS	H	87	-7.795	-1.582	-30.055	1.00	53.66	H	C
ATOM	7991	O	LYS	H	87	-7.499	-1.294	-28.889	1.00	50.30	H	O
ATOM	7993	N	ALA	H	88	-7.005	-1.366	-31.108	1.00	50.15	H	N
ATOM	7994	CA	ALA	H	88	-5.665	-0.786	-31.007	1.00	48.90	H	C
ATOM	7996	CB	ALA	H	88	-5.118	-0.492	-32.395	1.00	45.66	H	C
ATOM	8000	C	ALA	H	88	-5.648	0.488	-30.185	1.00	48.76	H	C
ATOM	8001	O	ALA	H	88	-4.756	0.699	-29.364	1.00	50.77	H	O
ATOM	8003	N	GLU	H	89	-6.652	1.329	-30.419	1.00	48.32	H	N
ATOM	8004	CA	GLU	H	89	-6.749	2.638	-29.785	1.00	46.73	H	C
ATOM	8006	CB	GLU	H	89	-7.817	3.530	-30.452	1.00	55.88	H	C
ATOM	8009	CG	GLU	H	89	-8.823	2.838	-31.392	1.00	63.79	H	C
ATOM	8012	CD	GLU	H	89	-8.219	2.456	-32.744	1.00	68.91	H	C
ATOM	8013	OE1	GLU	H	89	-7.574	3.328	-33.379	1.00	70.31	H	O
ATOM	8014	OE2	GLU	H	89	-8.390	1.281	-33.162	1.00	69.81	H	O
ATOM	8015	C	GLU	H	89	-6.973	2.580	-28.265	1.00	44.87	H	C
ATOM	8016	O	GLU	H	89	-6.871	3.611	-27.611	1.00	47.72	H	O
ATOM	8018	N	ASP	H	90	-7.265	1.393	-27.720	1.00	40.09	H	N
ATOM	8019	CA	ASP	H	90	-7.509	1.192	-26.286	1.00	40.19	H	C
ATOM	8021	CB	ASP	H	90	-8.375	-0.057	-26.039	1.00	36.37	H	C
ATOM	8024	CG	ASP	H	90	-9.807	0.141	-26.443	1.00	40.71	H	C
ATOM	8025	OD1	ASP	H	90	-10.372	1.209	-26.132	1.00	45.67	H	O
ATOM	8026	OD2	ASP	H	90	-10.392	-0.773	-27.054	1.00	44.51	H	O
ATOM	8027	C	ASP	H	90	-6.210	0.995	-25.541	1.00	36.02	H	C
ATOM	8028	O	ASP	H	90	-6.185	0.830	-24.327	1.00	37.09	H	O
ATOM	8030	N	THR	H	91	-5.132	0.912	-26.284	1.00	37.59	H	N
ATOM	8031	CA	THR	H	91	-3.804	0.835	-25.698	1.00	40.36	H	C
ATOM	8033	CB	THR	H	91	-2.707	0.681	-26.806	1.00	42.84	H	C
ATOM	8035	OG1	THR	H	91	-2.882	-0.584	-27.484	1.00	40.04	H	O
ATOM	8037	CG2	THR	H	91	-1.284	0.803	-26.200	1.00	39.40	H	C
ATOM	8041	C	THR	H	91	-3.569	2.110	-24.872	1.00	41.02	H	C
ATOM	8042	O	THR	H	91	-3.520	3.223	-25.395	1.00	37.75	H	O
ATOM	8044	N	ALA	H	92	-3.442	1.932	-23.566	1.00	39.46	H	N
ATOM	8045	CA	ALA	H	92	-3.367	3.058	-22.641	1.00	37.53	H	C
ATOM	8047	CB	ALA	H	92	-4.744	3.799	-22.532	1.00	30.87	H	C
ATOM	8051	C	ALA	H	92	-2.975	2.550	-21.282	1.00	38.57	H	C
ATOM	8052	O	ALA	H	92	-3.007	1.349	-21.009	1.00	42.27	H	O
ATOM	8054	N	VAL	H	93	-2.601	3.485	-20.424	1.00	42.81	H	N
ATOM	8055	CA	VAL	H	93	-2.492	3.219	-19.000	1.00	35.25	H	C
ATOM	8057	CB	VAL	H	93	-1.382	4.063	-18.343	1.00	34.09	H	C
ATOM	8059	CG1	VAL	H	93	-1.413	3.947	-16.789	1.00	28.67	H	C
ATOM	8063	CG2	VAL	H	93	-0.014	3.650	-18.906	1.00	33.91	H	C
ATOM	8067	C	VAL	H	93	-3.838	3.549	-18.381	1.00	36.37	H	C
ATOM	8068	O	VAL	H	93	-4.437	4.582	-18.669	1.00	37.24	H	O
ATOM	8070	N	TYR	H	94	-4.312	2.652	-17.532	1.00	37.50	H	N
ATOM	8071	CA	TYR	H	94	-5.567	2.821	-16.841	1.00	34.60	H	C
ATOM	8073	CB	TYR	H	94	-6.471	1.623	-17.113	1.00	34.12	H	C
ATOM	8076	CG	TYR	H	94	-6.862	1.559	-18.551	1.00	32.16	H	C
ATOM	8077	CD1	TYR	H	94	-7.962	2.248	-19.011	1.00	33.50	H	C
ATOM	8079	CE1	TYR	H	94	-8.327	2.196	-20.371	1.00	36.31	H	C
ATOM	8081	CZ	TYR	H	94	-7.561	1.464	-21.258	1.00	34.70	H	C
ATOM	8082	OH	TYR	H	94	-7.906	1.423	-22.595	1.00	36.69	H	O
ATOM	8084	CE2	TYR	H	94	-6.457	0.781	-20.812	1.00	30.57	H	C
ATOM	8086	CD2	TYR	H	94	-6.103	0.842	-19.469	1.00	33.34	H	C
ATOM	8088	C	TYR	H	94	-5.281	2.926	-15.372	1.00	36.11	H	C

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ATOM	8089	O	TYR	H	94	-4.601	2.053	-14.802	1.00	34.38	H	O
ATOM	8091	N	TYR	H	95	-5.786	4.005	-14.768	1.00	36.22	H	N
ATOM	8092	CA	TYR	H	95	-5.649	4.233	-13.338	1.00	35.02	H	C
ATOM	8094	CB	TYR	H	95	-5.144	5.634	-13.005	1.00	39.99	H	C
ATOM	8097	CG	TYR	H	95	-3.834	6.046	-13.614	1.00	43.50	H	C
ATOM	8098	CD1	TYR	H	95	-2.643	5.807	-12.951	1.00	43.38	H	C
ATOM	8100	CE1	TYR	H	95	-1.430	6.209	-13.495	1.00	41.50	H	C
ATOM	8102	CZ	TYR	H	95	-1.409	6.853	-14.711	1.00	41.89	H	C
ATOM	8103	OH	TYR	H	95	-0.207	7.245	-15.227	1.00	44.03	H	O
ATOM	8105	CE2	TYR	H	95	-2.584	7.123	-15.395	1.00	41.94	H	C
ATOM	8107	CD2	TYR	H	95	-3.789	6.729	-14.842	1.00	41.79	H	C
ATOM	8109	C	TYR	H	95	-6.996	4.109	-12.654	1.00	34.71	H	C
ATOM	8110	O	TYR	H	95	-8.035	4.423	-13.222	1.00	31.25	H	O
ATOM	8112	N	CYS	H	96	-6.951	3.656	-11.414	1.00	39.13	H	N
ATOM	8113	CA	CYS	H	96	-8.030	3.871	-10.484	1.00	37.29	H	C
ATOM	8115	CB	CYS	H	96	-8.329	2.600	-9.663	1.00	41.25	H	C
ATOM	8118	SG	CYS	H	96	-7.036	2.010	-8.498	1.00	43.16	H	S
ATOM	8120	C	CYS	H	96	-7.578	5.051	-9.608	1.00	36.44	H	C
ATOM	8121	O	CYS	H	96	-6.381	5.211	-9.333	1.00	34.39	H	O
ATOM	8123	N	GLU	H	97	-8.527	5.922	-9.274	1.00	35.66	H	N
ATOM	8124	CA	GLU	H	97	-8.325	6.997	-8.313	1.00	34.76	H	C
ATOM	8126	CB	GLU	H	97	-8.390	8.365	-8.990	1.00	35.14	H	C
ATOM	8129	CG	GLU	H	97	-8.242	9.545	-8.002	1.00	37.35	H	C
ATOM	8132	CD	GLU	H	97	-8.775	10.884	-8.537	1.00	40.55	H	C
ATOM	8133	OE1	GLU	H	97	-9.769	10.893	-9.313	1.00	39.27	H	O
ATOM	8134	OE2	GLU	H	97	-8.194	11.931	-8.155	1.00	44.29	H	O
ATOM	8135	C	GLU	H	97	-9.448	6.909	-7.293	1.00	29.71	H	C
ATOM	8136	O	GLU	H	97	-10.605	6.921	-7.689	1.00	30.33	H	O
ATOM	8138	N	ARG	H	98	-9.114	6.830	-6.001	1.00	27.30	H	N
ATOM	8139	CA	ARG	H	98	-10.153	6.873	-4.940	1.00	31.99	H	C
ATOM	8141	CB	ARG	H	98	-9.667	6.437	-3.566	1.00	29.04	H	C
ATOM	8144	CG	ARG	H	98	-10.707	6.636	-2.439	1.00	32.88	H	C
ATOM	8147	CD	ARG	H	98	-10.160	6.311	-1.033	1.00	30.87	H	C
ATOM	8150	NE	ARG	H	98	-9.391	7.423	-0.493	1.00	33.11	H	N
ATOM	8152	CZ	ARG	H	98	-9.104	7.606	0.799	1.00	34.99	H	C
ATOM	8153	NH1	ARG	H	98	-9.497	6.745	1.712	1.00	42.49	H	N
ATOM	8156	NH2	ARG	H	98	-8.408	8.659	1.189	1.00	33.95	H	N
ATOM	8159	C	ARG	H	98	-10.720	8.268	-4.823	1.00	33.05	H	C
ATOM	8160	O	ARG	H	98	-10.002	9.273	-4.833	1.00	32.74	H	O
ATOM	8162	N	GLU	H	99	-12.023	8.323	-4.667	1.00	35.20	H	N
ATOM	8163	CA	GLU	H	99	-12.697	9.593	-4.714	1.00	36.56	H	C
ATOM	8165	CB	GLU	H	99	-13.919	9.449	-5.638	1.00	33.51	H	C
ATOM	8168	CG	GLU	H	99	-14.874	10.610	-5.658	1.00	35.26	H	C
ATOM	8171	CD	GLU	H	99	-14.242	11.892	-6.173	1.00	38.27	H	C
ATOM	8172	OE1	GLU	H	99	-13.218	11.816	-6.926	1.00	33.31	H	O
ATOM	8173	OE2	GLU	H	99	-14.782	12.970	-5.808	1.00	31.39	H	O
ATOM	8174	C	GLU	H	99	-13.193	10.253	-3.439	1.00	40.17	H	C
ATOM	8175	O	GLU	H	99	-14.000	9.666	-2.711	1.00	47.04	H	O
ATOM	8177	N	GLY	H	100	-12.576	11.375	-3.070	1.00	43.96	H	N
ATOM	8178	CA	GLY	H	100	-12.404	11.810	-1.711	1.00	41.52	H	C
ATOM	8181	C	GLY	H	100	-11.291	11.566	-0.767	1.00	41.90	H	C
ATOM	8182	O	GLY	H	100	-10.654	10.542	-0.780	1.00	47.55	H	O
ATOM	8184	N	GLY	H	101	-11.136	12.538	0.124	1.00	40.92	H	N
ATOM	8185	CA	GLY	H	101	-10.151	12.495	1.172	1.00	38.85	H	C
ATOM	8188	C	GLY	H	101	-8.811	12.874	0.585	1.00	40.15	H	C
ATOM	8189	O	GLY	H	101	-8.740	13.476	-0.510	1.00	37.79	H	O
ATOM	8191	N	VAL	H	108	-7.766	12.489	1.322	1.00	36.77	H	N
ATOM	8192	CA	VAL	H	108	-6.403	12.589	0.892	1.00	33.64	H	C
ATOM	8194	CB	VAL	H	108	-5.476	12.042	2.002	1.00	33.69	H	C
ATOM	8196	CG1	VAL	H	108	-4.054	12.298	1.689	1.00	35.24	H	C
ATOM	8200	CG2	VAL	H	108	-5.796	12.750	3.325	1.00	35.01	H	C
ATOM	8204	C	VAL	H	108	-6.415	11.800	-0.405	1.00	32.82	H	C
ATOM	8205	O	VAL	H	108	-6.894	10.659	-0.459	1.00	35.08	H	O
ATOM	8207	N	ASN	H	109	-5.947	12.446	-1.465	1.00	32.62	H	N
ATOM	8208	CA	ASN	H	109	-6.112	11.919	-2.796	1.00	33.42	H	C
ATOM	8210	CB	ASN	H	109	-6.000	13.038	-3.815	1.00	36.24	H	C
ATOM	8213	CG	ASN	H	109	-6.444	12.619	-5.186	1.00	38.29	H	C
ATOM	8214	OD1	ASN	H	109	-7.599	12.199	-5.399	1.00	45.32	H	O

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ATOM	8215	ND2	ASN	H	109	-5.528	12.713	-6.132	1.00	36.40	H	N
ATOM	8218	C	ASN	H	109	-5.106	10.817	-3.063	1.00	35.11	H	C
ATOM	8219	O	ASN	H	109	-3.896	10.996	-2.878	1.00	30.04	H	O
ATOM	8221	N	ASN	H	110	-5.634	9.668	-3.490	1.00	38.32	H	N
ATOM	8222	CA	ASN	H	110	-4.836	8.475	-3.709	1.00	36.09	H	C
ATOM	8224	CB	ASN	H	110	-5.108	7.444	-2.596	1.00	36.91	H	C
ATOM	8227	CG	ASN	H	110	-4.205	7.617	-1.398	1.00	38.56	H	C
ATOM	8228	OD1	ASN	H	110	-3.148	6.971	-1.298	1.00	44.77	H	O
ATOM	8229	ND2	ASN	H	110	-4.616	8.473	-0.470	1.00	36.28	H	N
ATOM	8232	C	ASN	H	110	-5.154	7.853	-5.060	1.00	34.88	H	C
ATOM	8233	O	ASN	H	110	-6.316	7.730	-5.431	1.00	36.48	H	O
ATOM	8235	N	TRP	H	111	-4.100	7.434	-5.752	1.00	35.16	H	N
ATOM	8236	CA	TRP	H	111	-4.175	6.806	-7.050	1.00	34.91	H	C
ATOM	8238	CB	TRP	H	111	-3.408	7.657	-8.067	1.00	34.76	H	C
ATOM	8241	CG	TRP	H	111	-4.151	8.860	-8.463	1.00	35.84	H	C
ATOM	8242	CD1	TRP	H	111	-4.529	9.894	-7.656	1.00	36.17	H	C
ATOM	8244	NE1	TRP	H	111	-5.229	10.822	-8.378	1.00	35.97	H	N
ATOM	8246	CE2	TRP	H	111	-5.338	10.385	-9.677	1.00	36.89	H	C
ATOM	8247	CD2	TRP	H	111	-4.664	9.155	-9.766	1.00	34.84	H	C
ATOM	8248	CE3	TRP	H	111	-4.605	8.508	-10.997	1.00	38.25	H	C
ATOM	8250	CZ3	TRP	H	111	-5.209	9.105	-12.095	1.00	36.65	H	C
ATOM	8252	CH2	TRP	H	111	-5.871	10.331	-11.977	1.00	36.07	H	C
ATOM	8254	CZ2	TRP	H	111	-5.942	10.989	-10.783	1.00	35.02	H	C
ATOM	8256	C	TRP	H	111	-3.524	5.447	-6.967	1.00	37.71	H	C
ATOM	8257	O	TRP	H	111	-2.569	5.240	-6.179	1.00	31.90	H	O
ATOM	8259	N	GLY	H	112	-4.033	4.518	-7.783	1.00	35.70	H	N
ATOM	8260	CA	GLY	H	112	-3.269	3.329	-8.120	1.00	37.62	H	C
ATOM	8263	C	GLY	H	112	-2.118	3.684	-9.027	1.00	38.02	H	C
ATOM	8264	O	GLY	H	112	-2.054	4.802	-9.564	1.00	36.55	H	O
ATOM	8266	N	GLN	H	113	-1.226	2.717	-9.228	1.00	36.06	H	N
ATOM	8267	CA	GLN	H	113	0.019	2.961	-9.946	1.00	33.03	H	C
ATOM	8269	CB	GLN	H	113	1.135	2.026	-9.391	1.00	33.37	H	C
ATOM	8272	CG	GLN	H	113	1.136	0.570	-9.836	1.00	36.35	H	C
ATOM	8275	CD	GLN	H	113	0.078	-0.335	-9.172	1.00	35.12	H	C
ATOM	8276	OE1	GLN	H	113	-0.846	0.119	-8.485	1.00	37.69	H	O
ATOM	8277	NE2	GLN	H	113	0.213	-1.628	-9.409	1.00	30.39	H	N
ATOM	8280	C	GLN	H	113	-0.172	2.933	-11.474	1.00	36.45	H	C
ATOM	8281	O	GLN	H	113	0.694	3.424	-12.231	1.00	36.80	H	O
ATOM	8283	N	GLY	H	114	-1.331	2.446	-11.927	1.00	37.39	H	N
ATOM	8284	CA	GLY	H	114	-1.606	2.306	-13.365	1.00	36.71	H	C
ATOM	8287	C	GLY	H	114	-1.391	0.897	-13.899	1.00	39.39	H	C
ATOM	8288	O	GLY	H	114	-0.622	0.119	-13.338	1.00	39.14	H	O
ATOM	8290	N	THR	H	115	-2.100	0.577	-14.976	1.00	35.67	H	N
ATOM	8291	CA	THR	H	115	-1.999	-0.701	-15.657	1.00	37.44	H	C
ATOM	8293	CB	THR	H	115	-3.229	-1.627	-15.327	1.00	34.83	H	C
ATOM	8295	OG1	THR	H	115	-3.320	-1.829	-13.899	1.00	32.32	H	O
ATOM	8297	CG2	THR	H	115	-3.109	-2.969	-16.031	1.00	31.86	H	C
ATOM	8301	C	THR	H	115	-1.925	-0.390	-17.135	1.00	35.26	H	C
ATOM	8302	O	THR	H	115	-2.832	0.227	-17.672	1.00	34.11	H	O
ATOM	8304	N	LEU	H	116	-0.822	-0.767	-17.782	1.00	40.12	H	N
ATOM	8305	CA	LEU	H	116	-0.690	-0.566	-19.221	1.00	39.95	H	C
ATOM	8307	CB	LEU	H	116	0.782	-0.439	-19.614	1.00	39.97	H	C
ATOM	8310	CG	LEU	H	116	1.105	-0.280	-21.106	1.00	41.28	H	C
ATOM	8312	CD1	LEU	H	116	0.268	0.775	-21.802	1.00	40.18	H	C
ATOM	8316	CD2	LEU	H	116	2.556	0.058	-21.235	1.00	46.77	H	C
ATOM	8320	C	LEU	H	116	-1.346	-1.760	-19.877	1.00	41.81	H	C
ATOM	8321	O	LEU	H	116	-0.940	-2.891	-19.640	1.00	45.01	H	O
ATOM	8323	N	VAL	H	117	-2.384	-1.509	-20.666	1.00	44.17	H	N
ATOM	8324	CA	VAL	H	117	-2.965	-2.537	-21.506	1.00	39.99	H	C
ATOM	8326	CB	VAL	H	117	-4.492	-2.599	-21.315	1.00	41.79	H	C
ATOM	8328	CG1	VAL	H	117	-5.138	-3.464	-22.398	1.00	36.30	H	C
ATOM	8332	CG2	VAL	H	117	-4.854	-3.086	-19.833	1.00	31.57	H	C
ATOM	8336	C	VAL	H	117	-2.536	-2.201	-22.935	1.00	41.57	H	C
ATOM	8337	O	VAL	H	117	-2.779	-1.104	-23.388	1.00	42.32	H	O
ATOM	8339	N	THR	H	118	-1.828	-3.132	-23.601	1.00	44.82	H	N
ATOM	8340	CA	THR	H	118	-1.490	-3.034	-25.032	1.00	44.05	H	C
ATOM	8342	CB	THR	H	118	-0.007	-3.448	-25.271	1.00	43.87	H	C
ATOM	8344	OG1	THR	H	118	0.845	-2.767	-24.339	1.00	41.97	H	O

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ATOM	8346	CG2	THR	H	118	0.449	-3.132	-26.676	1.00	41.90	H	C
ATOM	8350	C	THR	H	118	-2.444	-3.922	-25.844	1.00	43.78	H	C
ATOM	8351	O	THR	H	118	-2.684	-5.047	-25.466	1.00	42.54	H	O
ATOM	8353	N	VAL	H	119	-3.021	-3.398	-26.929	1.00	48.16	H	N
ATOM	8354	CA	VAL	H	119	-3.911	-4.193	-27.788	1.00	47.41	H	C
ATOM	8356	CB	VAL	H	119	-5.288	-3.547	-28.035	1.00	44.41	H	C
ATOM	8358	CG1	VAL	H	119	-6.124	-4.491	-28.891	1.00	41.97	H	C
ATOM	8362	CG2	VAL	H	119	-6.000	-3.210	-26.716	1.00	35.77	H	C
ATOM	8366	C	VAL	H	119	-3.245	-4.413	-29.131	1.00	47.62	H	C
ATOM	8367	O	VAL	H	119	-3.167	-3.486	-29.909	1.00	46.52	H	O
ATOM	8369	N	SER	H	120	-2.797	-5.649	-29.382	1.00	49.23	H	N
ATOM	8370	CA	SER	H	120	-2.001	-5.995	-30.571	1.00	49.64	H	C
ATOM	8372	CB	SER	H	120	-0.531	-5.663	-30.314	1.00	52.13	H	C
ATOM	8375	OG	SER	H	120	0.264	-5.865	-31.475	1.00	56.16	H	O
ATOM	8377	C	SER	H	120	-2.103	-7.476	-30.947	1.00	46.46	H	C
ATOM	8378	O	SER	H	120	-2.204	-8.329	-30.073	1.00	46.52	H	O
ATOM	8380	N	SER	H	121	-2.061	-7.766	-32.251	1.00	49.63	H	N
ATOM	8381	CA	SER	H	121	-1.971	-9.149	-32.751	1.00	50.00	H	C
ATOM	8383	CB	SER	H	121	-2.407	-9.223	-34.224	1.00	51.79	H	C
ATOM	8386	OG	SER	H	121	-1.549	-8.449	-35.060	1.00	57.61	H	O
ATOM	8388	C	SER	H	121	-0.544	-9.747	-32.568	1.00	46.41	H	C
ATOM	8389	O	SER	H	121	-0.348	-10.953	-32.669	1.00	45.92	H	O
ATOM	8391	N	ALA	H	122	0.440	-8.892	-32.291	1.00	46.62	H	N
ATOM	8392	CA	ALA	H	122	1.810	-9.339	-32.085	1.00	45.86	H	C
ATOM	8394	CB	ALA	H	122	2.786	-8.140	-32.185	1.00	44.27	H	C
ATOM	8398	C	ALA	H	122	1.943	-10.060	-30.752	1.00	48.21	H	C
ATOM	8399	O	ALA	H	122	1.237	-9.748	-29.811	1.00	51.02	H	O
ATOM	8401	N	SER	H	123	2.851	-11.035	-30.682	1.00	48.89	H	N
ATOM	8402	CA	SER	H	123	3.001	-11.866	-29.494	1.00	47.49	H	C
ATOM	8404	CB	SER	H	123	3.209	-13.331	-29.890	1.00	53.26	H	C
ATOM	8407	OG	SER	H	123	4.498	-13.556	-30.387	1.00	53.60	H	O
ATOM	8409	C	SER	H	123	4.108	-11.378	-28.556	1.00	48.02	H	C
ATOM	8410	O	SER	H	123	4.996	-10.593	-28.955	1.00	46.30	H	O
ATOM	8412	N	THR	H	124	4.011	-11.825	-27.296	1.00	45.73	H	N
ATOM	8413	CA	THR	H	124	4.950	-11.460	-26.226	1.00	45.97	H	C
ATOM	8415	CB	THR	H	124	4.468	-12.039	-24.868	1.00	45.36	H	C
ATOM	8417	OG1	THR	H	124	3.178	-11.490	-24.557	1.00	54.73	H	O
ATOM	8419	CG2	THR	H	124	5.435	-11.693	-23.749	1.00	44.63	H	C
ATOM	8423	C	THR	H	124	6.399	-11.921	-26.493	1.00	46.03	H	C
ATOM	8424	O	THR	H	124	6.634	-13.079	-26.815	1.00	43.24	H	O
ATOM	8426	N	LYS	H	125	7.354	-10.998	-26.356	1.00	46.51	H	N
ATOM	8427	CA	LYS	H	125	8.780	-11.312	-26.419	1.00	44.43	H	C
ATOM	8429	CB	LYS	H	125	9.362	-10.869	-27.773	1.00	47.29	H	C
ATOM	8432	CG	LYS	H	125	10.867	-11.145	-27.978	1.00	46.78	H	C
ATOM	8435	CD	LYS	H	125	11.217	-12.644	-27.970	1.00	47.36	H	C
ATOM	8438	CE	LYS	H	125	12.719	-12.886	-27.845	1.00	46.96	H	C
ATOM	8441	NZ	LYS	H	125	13.225	-12.815	-26.402	1.00	44.86	H	N
ATOM	8445	C	LYS	H	125	9.516	-10.605	-25.280	1.00	42.72	H	C
ATOM	8446	O	LYS	H	125	9.400	-9.395	-25.104	1.00	42.10	H	O
ATOM	8448	N	GLY	H	126	10.288	-11.364	-24.519	1.00	42.29	H	N
ATOM	8449	CA	GLY	H	126	11.110	-10.801	-23.468	1.00	41.31	H	C
ATOM	8452	C	GLY	H	126	12.338	-10.134	-24.062	1.00	39.53	H	C
ATOM	8453	O	GLY	H	126	12.746	-10.466	-25.161	1.00	40.73	H	O
ATOM	8455	N	PRO	H	127	12.952	-9.202	-23.322	1.00	38.71	H	N
ATOM	8456	CA	PRO	H	127	14.101	-8.476	-23.849	1.00	40.86	H	C
ATOM	8458	CB	PRO	H	127	14.183	-7.258	-22.930	1.00	38.60	H	C
ATOM	8461	CG	PRO	H	127	13.730	-7.777	-21.610	1.00	36.71	H	C
ATOM	8464	CD	PRO	H	127	12.633	-8.781	-21.947	1.00	40.01	H	C
ATOM	8467	C	PRO	H	127	15.395	-9.273	-23.748	1.00	43.32	H	C
ATOM	8468	O	PRO	H	127	15.507	-10.181	-22.902	1.00	45.48	H	O
ATOM	8469	N	SER	H	128	16.339	-8.943	-24.626	1.00	43.60	H	N
ATOM	8470	CA	SER	H	128	17.725	-9.373	-24.497	1.00	44.17	H	C
ATOM	8472	CB	SER	H	128	18.271	-9.767	-25.860	1.00	43.32	H	C
ATOM	8475	OG	SER	H	128	17.281	-10.482	-26.568	1.00	43.03	H	O
ATOM	8477	C	SER	H	128	18.495	-8.194	-23.933	1.00	42.72	H	C
ATOM	8478	O	SER	H	128	18.327	-7.084	-24.402	1.00	45.87	H	O
ATOM	8480	N	VAL	H	129	19.299	-8.428	-22.906	1.00	44.34	H	N
ATOM	8481	CA	VAL	H	129	19.958	-7.348	-22.180	1.00	44.40	H	C

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ATOM	8483	CB	VAL	H	129	19.663	-7.403	-20.677	1.00	40.33	H	C
ATOM	8485	CG1	VAL	H	129	20.239	-6.174	-19.980	1.00	37.67	H	C
ATOM	8489	CG2	VAL	H	129	18.158	-7.555	-20.434	1.00	30.14	H	C
ATOM	8493	C	VAL	H	129	21.453	-7.442	-22.434	1.00	47.64	H	C
ATOM	8494	O	VAL	H	129	22.057	-8.495	-22.249	1.00	54.01	H	O
ATOM	8496	N	PHE	H	130	22.028	-6.326	-22.881	1.00	47.33	H	N
ATOM	8497	CA	PHE	H	130	23.420	-6.243	-23.308	1.00	43.32	H	C
ATOM	8499	CB	PHE	H	130	23.520	-5.986	-24.820	1.00	37.55	H	C
ATOM	8502	CG	PHE	H	130	22.906	-7.071	-25.668	1.00	38.88	H	C
ATOM	8503	CD1	PHE	H	130	23.451	-8.333	-25.703	1.00	39.93	H	C
ATOM	8505	CE1	PHE	H	130	22.877	-9.322	-26.472	1.00	37.55	H	C
ATOM	8507	CZ	PHE	H	130	21.774	-9.057	-27.207	1.00	34.12	H	C
ATOM	8509	CE2	PHE	H	130	21.242	-7.807	-27.213	1.00	35.71	H	C
ATOM	8511	CD2	PHE	H	130	21.802	-6.821	-26.448	1.00	37.91	H	C
ATOM	8513	C	PHE	H	130	24.106	-5.099	-22.591	1.00	44.96	H	C
ATOM	8514	O	PHE	H	130	23.546	-4.012	-22.460	1.00	45.58	H	O
ATOM	8516	N	PRO	H	131	25.342	-5.323	-22.146	1.00	46.34	H	N
ATOM	8517	CA	PRO	H	131	26.021	-4.258	-21.416	1.00	45.99	H	C
ATOM	8519	CB	PRO	H	131	27.213	-4.973	-20.802	1.00	47.36	H	C
ATOM	8522	CG	PRO	H	131	27.525	-6.074	-21.804	1.00	49.65	H	C
ATOM	8525	CD	PRO	H	131	26.184	-6.521	-22.320	1.00	45.87	H	C
ATOM	8528	C	PRO	H	131	26.505	-3.158	-22.359	1.00	46.06	H	C
ATOM	8529	O	PRO	H	131	26.911	-3.437	-23.483	1.00	50.40	H	O
ATOM	8530	N	LEU	H	132	26.407	-1.915	-21.904	1.00	43.52	H	N
ATOM	8531	CA	LEU	H	132	27.095	-0.801	-22.530	1.00	42.28	H	C
ATOM	8533	CB	LEU	H	132	26.149	0.374	-22.738	1.00	38.65	H	C
ATOM	8536	CG	LEU	H	132	24.992	0.189	-23.730	1.00	34.97	H	C
ATOM	8538	CD1	LEU	H	132	23.957	1.305	-23.531	1.00	35.43	H	C
ATOM	8542	CD2	LEU	H	132	25.509	0.214	-25.148	1.00	31.92	H	C
ATOM	8546	C	LEU	H	132	28.260	-0.457	-21.592	1.00	42.78	H	C
ATOM	8547	O	LEU	H	132	28.139	0.368	-20.676	1.00	44.18	H	O
ATOM	8549	N	ALA	H	133	29.373	-1.147	-21.816	1.00	47.75	H	N
ATOM	8550	CA	ALA	H	133	30.551	-1.102	-20.947	1.00	48.53	H	C
ATOM	8552	CB	ALA	H	133	31.662	-2.066	-21.488	1.00	44.30	H	C
ATOM	8556	C	ALA	H	133	31.131	0.299	-20.825	1.00	47.84	H	C
ATOM	8557	O	ALA	H	133	31.058	1.087	-21.761	1.00	49.21	H	O
ATOM	8559	N	PRO	H	134	31.731	0.610	-19.672	1.00	51.22	H	N
ATOM	8560	CA	PRO	H	134	32.427	1.878	-19.579	1.00	56.12	H	C
ATOM	8562	CB	PRO	H	134	32.648	2.040	-18.081	1.00	55.78	H	C
ATOM	8565	CG	PRO	H	134	32.788	0.634	-17.576	1.00	54.55	H	C
ATOM	8568	CD	PRO	H	134	31.852	-0.185	-18.436	1.00	54.64	H	C
ATOM	8571	C	PRO	H	134	33.761	1.730	-20.287	1.00	61.07	H	C
ATOM	8572	O	PRO	H	134	34.434	0.704	-20.149	1.00	64.73	H	O
ATOM	8573	N	SER	H	135	34.145	2.730	-21.055	1.00	65.21	H	N
ATOM	8574	CA	SER	H	135	35.445	2.700	-21.705	1.00	69.82	H	C
ATOM	8576	CB	SER	H	135	35.296	2.247	-23.169	1.00	75.57	H	C
ATOM	8579	OG	SER	H	135	34.097	2.724	-23.774	1.00	78.77	H	O
ATOM	8581	C	SER	H	135	36.092	4.064	-21.621	1.00	73.31	H	C
ATOM	8582	O	SER	H	135	35.507	5.007	-21.076	1.00	72.91	H	O
ATOM	8584	N	SER	H	136	37.306	4.174	-22.154	1.00	78.87	H	N
ATOM	8585	CA	SER	H	136	37.909	5.496	-22.395	1.00	78.82	H	C
ATOM	8587	CB	SER	H	136	39.328	5.370	-22.948	1.00	80.85	H	C
ATOM	8590	OG	SER	H	136	39.795	6.632	-23.402	1.00	83.33	H	O
ATOM	8592	C	SER	H	136	37.030	6.324	-23.363	1.00	81.81	H	C
ATOM	8593	O	SER	H	136	36.948	7.558	-23.243	1.00	83.39	H	O
ATOM	8595	N	LYS	H	137	36.360	5.629	-24.294	1.00	81.77	H	N
ATOM	8596	CA	LYS	H	137	35.405	6.253	-25.227	1.00	80.20	H	C
ATOM	8598	CB	LYS	H	137	35.084	5.305	-26.405	1.00	79.96	H	C
ATOM	8601	CG	LYS	H	137	36.273	4.671	-27.130	1.00	78.99	H	C
ATOM	8604	CD	LYS	H	137	37.098	5.680	-27.907	1.00	80.23	H	C
ATOM	8607	CE	LYS	H	137	38.059	4.978	-28.896	1.00	80.65	H	C
ATOM	8610	NZ	LYS	H	137	39.106	4.112	-28.249	1.00	78.44	H	N
ATOM	8614	C	LYS	H	137	34.091	6.638	-24.517	1.00	77.67	H	C
ATOM	8615	O	LYS	H	137	33.136	7.112	-25.167	1.00	70.96	H	O
ATOM	8617	N	SER	H	138	34.049	6.396	-23.201	1.00	79.02	H	N
ATOM	8618	CA	SER	H	138	32.908	6.725	-22.347	1.00	79.60	H	C
ATOM	8620	CB	SER	H	138	32.045	5.475	-22.144	1.00	77.51	H	C
ATOM	8623	OG	SER	H	138	31.867	5.192	-20.768	1.00	77.09	H	O

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ATOM	8625	C	SER	H	138	33.294	7.337	-20.976	1.00	80.08	H	C
ATOM	8626	O	SER	H	138	32.448	7.436	-20.072	1.00	77.53	H	O
ATOM	8628	N	THR	H	139	34.559	7.741	-20.825	1.00	81.86	H	N
ATOM	8629	CA	THR	H	139	35.013	8.479	-19.633	1.00	83.05	H	C
ATOM	8631	CB	THR	H	139	36.479	8.060	-19.175	1.00	83.13	H	C
ATOM	8633	OG1	THR	H	139	36.527	6.653	-18.864	1.00	79.56	H	O
ATOM	8635	CG2	THR	H	139	36.958	8.872	-17.945	1.00	79.07	H	C
ATOM	8639	C	THR	H	139	34.913	9.993	-19.934	1.00	84.14	H	C
ATOM	8640	O	THR	H	139	34.933	10.412	-21.105	1.00	84.01	H	O
ATOM	8642	N	SER	H	140	34.768	10.790	-18.876	1.00	83.65	H	N
ATOM	8643	CA	SER	H	140	34.610	12.232	-18.997	1.00	84.11	H	C
ATOM	8645	CB	SER	H	140	33.116	12.566	-19.119	1.00	87.28	H	C
ATOM	8648	OG	SER	H	140	32.318	11.706	-18.329	1.00	91.86	H	O
ATOM	8650	C	SER	H	140	35.230	12.957	-17.795	1.00	83.42	H	C
ATOM	8651	O	SER	H	140	34.544	13.233	-16.807	1.00	81.47	H	O
ATOM	8653	N	GLY	H	141	36.521	13.281	-17.903	1.00	84.14	H	N
ATOM	8654	CA	GLY	H	141	37.309	13.723	-16.750	1.00	83.18	H	C
ATOM	8657	C	GLY	H	141	37.385	12.602	-15.714	1.00	84.46	H	C
ATOM	8658	O	GLY	H	141	38.023	11.561	-15.943	1.00	87.72	H	O
ATOM	8660	N	GLY	H	142	36.719	12.803	-14.579	1.00	79.83	H	N
ATOM	8661	CA	GLY	H	142	36.615	11.767	-13.560	1.00	76.15	H	C
ATOM	8664	C	GLY	H	142	35.314	10.983	-13.638	1.00	73.07	H	C
ATOM	8665	O	GLY	H	142	35.081	10.122	-12.796	1.00	72.55	H	O
ATOM	8667	N	THR	H	143	34.486	11.268	-14.648	1.00	70.20	H	N
ATOM	8668	CA	THR	H	143	33.156	10.670	-14.798	1.00	67.07	H	C
ATOM	8670	CB	THR	H	143	32.133	11.781	-15.066	1.00	70.83	H	C
ATOM	8672	OG1	THR	H	143	32.306	12.814	-14.087	1.00	73.93	H	O
ATOM	8674	CG2	THR	H	143	30.697	11.250	-15.005	1.00	71.41	H	C
ATOM	8678	C	THR	H	143	33.106	9.630	-15.934	1.00	64.83	H	C
ATOM	8679	O	THR	H	143	33.472	9.927	-17.073	1.00	65.33	H	O
ATOM	8681	N	ALA	H	144	32.664	8.410	-15.626	1.00	61.30	H	N
ATOM	8682	CA	ALA	H	144	32.466	7.373	-16.650	1.00	56.92	H	C
ATOM	8684	CB	ALA	H	144	33.199	6.095	-16.270	1.00	54.56	H	C
ATOM	8688	C	ALA	H	144	30.988	7.089	-16.870	1.00	54.17	H	C
ATOM	8689	O	ALA	H	144	30.242	6.964	-15.909	1.00	55.41	H	O
ATOM	8691	N	ALA	H	145	30.575	6.999	-18.134	1.00	50.55	H	N
ATOM	8692	CA	ALA	H	145	29.219	6.600	-18.499	1.00	47.56	H	C
ATOM	8694	CB	ALA	H	145	28.753	7.367	-19.741	1.00	43.41	H	C
ATOM	8698	C	ALA	H	145	29.157	5.098	-18.777	1.00	48.05	H	C
ATOM	8699	O	ALA	H	145	30.030	4.562	-19.459	1.00	48.66	H	O
ATOM	8701	N	LEU	H	146	28.112	4.432	-18.270	1.00	46.22	H	N
ATOM	8702	CA	LEU	H	146	27.830	3.025	-18.616	1.00	45.39	H	C
ATOM	8704	CB	LEU	H	146	28.468	2.049	-17.614	1.00	49.59	H	C
ATOM	8707	CG	LEU	H	146	28.201	2.235	-16.118	1.00	50.31	H	C
ATOM	8709	CD1	LEU	H	146	26.969	1.451	-15.666	1.00	52.95	H	C
ATOM	8713	CD2	LEU	H	146	29.415	1.805	-15.313	1.00	49.61	H	C
ATOM	8717	C	LEU	H	146	26.344	2.790	-18.709	1.00	43.31	H	C
ATOM	8718	O	LEU	H	146	25.557	3.650	-18.315	1.00	44.23	H	O
ATOM	8720	N	GLY	H	147	25.953	1.630	-19.232	1.00	44.00	H	N
ATOM	8721	CA	GLY	H	147	24.533	1.302	-19.337	1.00	43.01	H	C
ATOM	8724	C	GLY	H	147	24.156	-0.120	-19.697	1.00	41.62	H	C
ATOM	8725	O	GLY	H	147	24.953	-1.068	-19.563	1.00	36.99	H	O
ATOM	8727	N	CYS	H	148	22.906	-0.256	-20.130	1.00	44.05	H	N
ATOM	8728	CA	CYS	H	148	22.369	-1.522	-20.620	1.00	42.28	H	C
ATOM	8730	CB	CYS	H	148	21.615	-2.286	-19.515	1.00	44.19	H	C
ATOM	8733	SG	CYS	H	148	22.726	-3.180	-18.379	1.00	49.43	H	S
ATOM	8735	C	CYS	H	148	21.455	-1.267	-21.814	1.00	39.10	H	C
ATOM	8736	O	CYS	H	148	20.625	-0.369	-21.788	1.00	39.14	H	O
ATOM	8738	N	LEU	H	149	21.629	-2.063	-22.857	1.00	36.07	H	N
ATOM	8739	CA	LEU	H	149	20.707	-2.102	-23.987	1.00	36.55	H	C
ATOM	8741	CB	LEU	H	149	21.466	-2.405	-25.273	1.00	36.46	H	C
ATOM	8744	CG	LEU	H	149	20.749	-2.461	-26.630	1.00	37.06	H	C
ATOM	8746	CD1	LEU	H	149	19.956	-1.182	-26.990	1.00	34.85	H	C
ATOM	8750	CD2	LEU	H	149	21.799	-2.789	-27.691	1.00	36.54	H	C
ATOM	8754	C	LEU	H	149	19.661	-3.172	-23.747	1.00	40.19	H	C
ATOM	8755	O	LEU	H	149	19.979	-4.358	-23.643	1.00	37.51	H	O
ATOM	8757	N	VAL	H	150	18.411	-2.731	-23.604	1.00	39.59	H	N
ATOM	8758	CA	VAL	H	150	17.303	-3.616	-23.381	1.00	36.69	H	C

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ATOM	8760	CB	VAL	H	150	16.393	-3.069	-22.319	1.00	33.37	H	C
ATOM	8762	CG1	VAL	H	150	15.295	-4.062	-22.067	1.00	30.88	H	C
ATOM	8766	CG2	VAL	H	150	17.218	-2.785	-21.079	1.00	30.65	H	C
ATOM	8770	C	VAL	H	150	16.580	-3.716	-24.694	1.00	37.50	H	C
ATOM	8771	O	VAL	H	150	15.776	-2.851	-25.030	1.00	38.91	H	O
ATOM	8773	N	LYS	H	151	16.833	-4.809	-25.408	1.00	39.40	H	N
ATOM	8774	CA	LYS	H	151	16.505	-4.885	-26.811	1.00	40.07	H	C
ATOM	8776	CB	LYS	H	151	17.772	-5.131	-27.621	1.00	43.23	H	C
ATOM	8779	CG	LYS	H	151	17.649	-4.749	-29.080	1.00	43.04	H	C
ATOM	8782	CD	LYS	H	151	18.899	-5.106	-29.856	1.00	42.51	H	C
ATOM	8785	CE	LYS	H	151	18.853	-4.519	-31.259	1.00	43.56	H	C
ATOM	8788	NZ	LYS	H	151	17.923	-5.259	-32.133	1.00	44.67	H	N
ATOM	8792	C	LYS	H	151	15.503	-5.969	-27.139	1.00	42.33	H	C
ATOM	8793	O	LYS	H	151	15.492	-7.033	-26.507	1.00	43.20	H	O
ATOM	8795	N	ASP	H	152	14.668	-5.676	-28.138	1.00	42.41	H	N
ATOM	8796	CA	ASP	H	152	13.758	-6.642	-28.781	1.00	42.14	H	C
ATOM	8798	CB	ASP	H	152	14.532	-7.741	-29.510	1.00	40.87	H	C
ATOM	8801	CG	ASP	H	152	15.351	-7.230	-30.688	1.00	43.71	H	C
ATOM	8802	OD1	ASP	H	152	14.901	-6.322	-31.435	1.00	39.56	H	O
ATOM	8803	OD2	ASP	H	152	16.454	-7.784	-30.879	1.00	43.05	H	O
ATOM	8804	C	ASP	H	152	12.749	-7.287	-27.826	1.00	41.35	H	C
ATOM	8805	O	ASP	H	152	12.753	-8.485	-27.649	1.00	45.45	H	O
ATOM	8807	N	TYR	H	153	11.887	-6.475	-27.226	1.00	42.13	H	N
ATOM	8808	CA	TYR	H	153	10.839	-6.973	-26.366	1.00	42.23	H	C
ATOM	8810	CB	TYR	H	153	11.161	-6.629	-24.909	1.00	40.02	H	C
ATOM	8813	CG	TYR	H	153	11.066	-5.176	-24.622	1.00	41.06	H	C
ATOM	8814	CD1	TYR	H	153	9.833	-4.598	-24.254	1.00	39.43	H	C
ATOM	8816	CE1	TYR	H	153	9.721	-3.244	-24.000	1.00	38.17	H	C
ATOM	8818	CZ	TYR	H	153	10.842	-2.437	-24.132	1.00	39.34	H	C
ATOM	8819	OH	TYR	H	153	10.736	-1.102	-23.893	1.00	38.42	H	O
ATOM	8821	CE2	TYR	H	153	12.070	-2.977	-24.518	1.00	41.11	H	C
ATOM	8823	CD2	TYR	H	153	12.174	-4.348	-24.767	1.00	40.86	H	C
ATOM	8825	C	TYR	H	153	9.458	-6.413	-26.769	1.00	45.11	H	C
ATOM	8826	O	TYR	H	153	9.343	-5.359	-27.390	1.00	42.90	H	O
ATOM	8828	N	PHE	H	154	8.416	-7.161	-26.422	1.00	46.57	H	N
ATOM	8829	CA	PHE	H	154	7.059	-6.739	-26.645	1.00	44.01	H	C
ATOM	8831	CB	PHE	H	154	6.580	-7.103	-28.050	1.00	44.53	H	C
ATOM	8834	CG	PHE	H	154	5.293	-6.417	-28.444	1.00	44.85	H	C
ATOM	8835	CD1	PHE	H	154	5.298	-5.108	-28.903	1.00	44.81	H	C
ATOM	8837	CE1	PHE	H	154	4.108	-4.452	-29.259	1.00	42.87	H	C
ATOM	8839	CZ	PHE	H	154	2.911	-5.129	-29.153	1.00	44.19	H	C
ATOM	8841	CE2	PHE	H	154	2.896	-6.443	-28.691	1.00	46.54	H	C
ATOM	8843	CD2	PHE	H	154	4.074	-7.077	-28.329	1.00	47.24	H	C
ATOM	8845	C	PHE	H	154	6.185	-7.395	-25.578	1.00	41.15	H	C
ATOM	8846	O	PHE	H	154	6.453	-8.521	-25.175	1.00	43.67	H	O
ATOM	8848	N	PRO	H	155	5.169	-6.672	-25.071	1.00	39.86	H	N
ATOM	8849	CA	PRO	H	155	4.829	-5.284	-25.307	1.00	39.89	H	C
ATOM	8851	CB	PRO	H	155	3.336	-5.263	-24.989	1.00	38.85	H	C
ATOM	8854	CG	PRO	H	155	3.261	-6.165	-23.792	1.00	40.53	H	C
ATOM	8857	CD	PRO	H	155	4.243	-7.277	-24.101	1.00	41.11	H	C
ATOM	8860	C	PRO	H	155	5.601	-4.412	-24.317	1.00	40.95	H	C
ATOM	8861	O	PRO	H	155	6.530	-4.884	-23.667	1.00	38.89	H	O
ATOM	8862	N	GLU	H	156	5.224	-3.147	-24.206	1.00	44.59	H	N
ATOM	8863	CA	GLU	H	156	5.706	-2.303	-23.110	1.00	41.40	H	C
ATOM	8865	CB	GLU	H	156	5.499	-0.842	-23.490	1.00	48.94	H	C
ATOM	8868	CG	GLU	H	156	6.214	0.195	-22.657	1.00	55.98	H	C
ATOM	8871	CD	GLU	H	156	7.643	0.473	-23.087	1.00	52.84	H	C
ATOM	8872	OE1	GLU	H	156	7.790	1.339	-23.956	1.00	53.29	H	O
ATOM	8873	OE2	GLU	H	156	8.599	-0.105	-22.516	1.00	47.55	H	O
ATOM	8874	C	GLU	H	156	4.896	-2.734	-21.886	1.00	39.49	H	C
ATOM	8875	O	GLU	H	156	3.831	-3.308	-22.035	1.00	41.52	H	O
ATOM	8877	N	PRO	H	157	5.389	-2.491	-20.660	1.00	40.48	H	N
ATOM	8878	CA	PRO	H	157	6.632	-1.843	-20.264	1.00	38.35	H	C
ATOM	8880	CB	PRO	H	157	6.186	-1.001	-19.063	1.00	37.61	H	C
ATOM	8883	CG	PRO	H	157	5.210	-1.941	-18.335	1.00	36.52	H	C
ATOM	8886	CD	PRO	H	157	4.587	-2.828	-19.461	1.00	37.65	H	C
ATOM	8889	C	PRO	H	157	7.714	-2.809	-19.806	1.00	38.06	H	C
ATOM	8890	O	PRO	H	157	7.461	-4.005	-19.626	1.00	40.68	H	O

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ATOM	8891	N	VAL	H	158	8.921	-2.260	-19.689	1.00	38.70	H	N
ATOM	8892	CA	VAL	H	158	10.007	-2.834	-18.918	1.00	42.29	H	C
ATOM	8894	CB	VAL	H	158	11.300	-3.148	-19.759	1.00	41.19	H	C
ATOM	8896	CG1	VAL	H	158	11.055	-4.309	-20.747	1.00	39.02	H	C
ATOM	8900	CG2	VAL	H	158	11.861	-1.889	-20.460	1.00	39.14	H	C
ATOM	8904	C	VAL	H	158	10.352	-1.802	-17.877	1.00	44.51	H	C
ATOM	8905	O	VAL	H	158	10.153	-0.625	-18.116	1.00	46.95	H	O
ATOM	8907	N	THR	H	159	10.802	-2.237	-16.706	1.00	46.32	H	N
ATOM	8908	CA	THR	H	159	11.435	-1.315	-15.758	1.00	45.55	H	C
ATOM	8910	CB	THR	H	159	10.856	-1.384	-14.322	1.00	44.23	H	C
ATOM	8912	OG1	THR	H	159	11.374	-2.531	-13.644	1.00	43.43	H	O
ATOM	8914	CG2	THR	H	159	9.352	-1.406	-14.349	1.00	41.58	H	C
ATOM	8918	C	THR	H	159	12.925	-1.610	-15.706	1.00	45.43	H	C
ATOM	8919	O	THR	H	159	13.355	-2.747	-15.876	1.00	44.87	H	O
ATOM	8921	N	VAL	H	160	13.710	-0.567	-15.482	1.00	44.82	H	N
ATOM	8922	CA	VAL	H	160	15.134	-0.706	-15.325	1.00	43.74	H	C
ATOM	8924	CB	VAL	H	160	15.913	-0.076	-16.540	1.00	43.89	H	C
ATOM	8926	CG1	VAL	H	160	17.390	-0.428	-16.503	1.00	38.34	H	C
ATOM	8930	CG2	VAL	H	160	15.294	-0.483	-17.885	1.00	42.75	H	C
ATOM	8934	C	VAL	H	160	15.508	0.017	-14.036	1.00	44.74	H	C
ATOM	8935	O	VAL	H	160	15.156	1.170	-13.863	1.00	47.18	H	O
ATOM	8937	N	SER	H	161	16.163	-0.681	-13.111	1.00	44.54	H	N
ATOM	8938	CA	SER	H	161	16.804	-0.027	-11.966	1.00	45.20	H	C
ATOM	8940	CB	SER	H	161	16.206	-0.499	-10.626	1.00	43.42	H	C
ATOM	8943	OG	SER	H	161	16.262	-1.908	-10.497	1.00	48.40	H	O
ATOM	8945	C	SER	H	161	18.288	-0.314	-12.016	1.00	43.57	H	C
ATOM	8946	O	SER	H	161	18.729	-1.165	-12.780	1.00	45.02	H	O
ATOM	8948	N	TRP	H	162	19.052	0.391	-11.186	1.00	45.13	H	N
ATOM	8949	CA	TRP	H	162	20.488	0.132	-11.037	1.00	47.55	H	C
ATOM	8951	CB	TRP	H	162	21.336	1.336	-11.514	1.00	43.28	H	C
ATOM	8954	CG	TRP	H	162	21.367	1.455	-13.016	1.00	41.03	H	C
ATOM	8955	CD1	TRP	H	162	20.460	2.114	-13.822	1.00	40.11	H	C
ATOM	8957	NE1	TRP	H	162	20.807	1.960	-15.140	1.00	41.72	H	N
ATOM	8959	CE2	TRP	H	162	21.945	1.192	-15.213	1.00	42.07	H	C
ATOM	8960	CD2	TRP	H	162	22.317	0.849	-13.897	1.00	41.55	H	C
ATOM	8961	CE3	TRP	H	162	23.454	0.054	-13.700	1.00	41.40	H	C
ATOM	8963	CZ3	TRP	H	162	24.161	-0.366	-14.782	1.00	40.81	H	C
ATOM	8965	CH2	TRP	H	162	23.776	-0.007	-16.084	1.00	43.08	H	C
ATOM	8967	CZ2	TRP	H	162	22.673	0.768	-16.319	1.00	42.01	H	C
ATOM	8969	C	TRP	H	162	20.815	-0.236	-9.593	1.00	49.43	H	C
ATOM	8970	O	TRP	H	162	20.354	0.425	-8.666	1.00	51.30	H	O
ATOM	8972	N	ASN	H	163	21.606	-1.292	-9.409	1.00	52.91	H	N
ATOM	8973	CA	ASN	H	163	21.951	-1.789	-8.069	1.00	54.41	H	C
ATOM	8975	CB	ASN	H	163	22.992	-0.874	-7.409	1.00	55.25	H	C
ATOM	8978	CG	ASN	H	163	24.327	-0.902	-8.119	1.00	55.62	H	C
ATOM	8979	OD1	ASN	H	163	25.024	0.109	-8.180	1.00	51.67	H	O
ATOM	8980	ND2	ASN	H	163	24.700	-2.065	-8.648	1.00	56.38	H	N
ATOM	8983	C	ASN	H	163	20.704	-1.912	-7.195	1.00	56.37	H	C
ATOM	8984	O	ASN	H	163	20.650	-1.375	-6.096	1.00	58.93	H	O
ATOM	8986	N	SER	H	164	19.692	-2.577	-7.750	1.00	59.97	H	N
ATOM	8987	CA	SER	H	164	18.417	-2.855	-7.093	1.00	56.55	H	C
ATOM	8989	CB	SER	H	164	18.620	-3.923	-6.027	1.00	51.98	H	C
ATOM	8992	OG	SER	H	164	19.212	-5.060	-6.608	1.00	46.71	H	O
ATOM	8994	C	SER	H	164	17.710	-1.644	-6.514	1.00	57.67	H	C
ATOM	8995	O	SER	H	164	17.012	-1.769	-5.507	1.00	59.77	H	O
ATOM	8997	N	GLY	H	165	17.866	-0.489	-7.170	1.00	58.76	H	N
ATOM	8998	CA	GLY	H	165	17.275	0.782	-6.706	1.00	56.36	H	C
ATOM	9001	C	GLY	H	165	18.196	1.647	-5.849	1.00	54.63	H	C
ATOM	9002	O	GLY	H	165	17.861	2.792	-5.546	1.00	54.68	H	O
ATOM	9004	N	ALA	H	166	19.346	1.100	-5.457	1.00	53.47	H	N
ATOM	9005	CA	ALA	H	166	20.345	1.837	-4.682	1.00	55.29	H	C
ATOM	9007	CB	ALA	H	166	21.490	0.897	-4.284	1.00	54.60	H	C
ATOM	9011	C	ALA	H	166	20.915	3.036	-5.438	1.00	56.04	H	C
ATOM	9012	O	ALA	H	166	21.043	4.117	-4.878	1.00	57.31	H	O
ATOM	9014	N	LEU	H	167	21.278	2.821	-6.703	1.00	56.51	H	N
ATOM	9015	CA	LEU	H	167	21.842	3.864	-7.561	1.00	52.29	H	C
ATOM	9017	CB	LEU	H	167	22.909	3.278	-8.490	1.00	53.38	H	C
ATOM	9020	CG	LEU	H	167	23.654	4.226	-9.458	1.00	53.24	H	C

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ATOM	9022	CD1	LEU	H	167	24.351	5.373	-8.695	1.00	48.05	H	C
ATOM	9026	CD2	LEU	H	167	24.654	3.463	-10.341	1.00	48.18	H	C
ATOM	9030	C	LEU	H	167	20.743	4.539	-8.375	1.00	52.47	H	C
ATOM	9031	O	LEU	H	167	20.195	3.960	-9.307	1.00	53.99	H	O
ATOM	9033	N	THR	H	168	20.420	5.771	-8.007	1.00	53.50	H	N
ATOM	9034	CA	THR	H	168	19.399	6.554	-8.692	1.00	53.76	H	C
ATOM	9036	CB	THR	H	168	18.317	6.980	-7.672	1.00	56.47	H	C
ATOM	9038	OG1	THR	H	168	17.022	6.617	-8.167	1.00	60.03	H	O
ATOM	9040	CG2	THR	H	168	18.374	8.494	-7.355	1.00	58.05	H	C
ATOM	9044	C	THR	H	168	20.003	7.791	-9.396	1.00	54.76	H	C
ATOM	9045	O	THR	H	168	19.522	8.222	-10.448	1.00	52.82	H	O
ATOM	9047	N	SER	H	169	21.066	8.339	-8.809	1.00	56.67	H	N
ATOM	9048	CA	SER	H	169	21.665	9.591	-9.259	1.00	55.97	H	C
ATOM	9050	CB	SER	H	169	22.621	10.104	-8.172	1.00	58.30	H	C
ATOM	9053	OG	SER	H	169	23.468	11.132	-8.644	1.00	59.09	H	O
ATOM	9055	C	SER	H	169	22.437	9.436	-10.570	1.00	57.31	H	C
ATOM	9056	O	SER	H	169	23.321	8.586	-10.683	1.00	60.22	H	O
ATOM	9058	N	GLY	H	170	22.118	10.280	-11.546	1.00	53.53	H	N
ATOM	9059	CA	GLY	H	170	22.802	10.257	-12.836	1.00	50.50	H	C
ATOM	9062	C	GLY	H	170	22.194	9.314	-13.867	1.00	48.82	H	C
ATOM	9063	O	GLY	H	170	22.663	9.271	-15.009	1.00	47.19	H	O
ATOM	9065	N	VAL	H	171	21.143	8.584	-13.474	1.00	49.42	H	N
ATOM	9066	CA	VAL	H	171	20.503	7.593	-14.338	1.00	43.12	H	C
ATOM	9068	CB	VAL	H	171	19.736	6.539	-13.517	1.00	37.13	H	C
ATOM	9070	CG1	VAL	H	171	18.953	5.595	-14.427	1.00	36.43	H	C
ATOM	9074	CG2	VAL	H	171	20.698	5.755	-12.663	1.00	34.37	H	C
ATOM	9078	C	VAL	H	171	19.569	8.255	-15.339	1.00	42.58	H	C
ATOM	9079	O	VAL	H	171	18.771	9.114	-14.981	1.00	42.12	H	O
ATOM	9081	N	HIS	H	172	19.700	7.856	-16.602	1.00	42.66	H	N
ATOM	9082	CA	HIS	H	172	18.796	8.264	-17.674	1.00	40.49	H	C
ATOM	9084	CB	HIS	H	172	19.514	9.126	-18.723	1.00	42.19	H	C
ATOM	9087	CG	HIS	H	172	20.048	10.412	-18.185	1.00	44.33	H	C
ATOM	9088	ND1	HIS	H	172	19.265	11.317	-17.502	1.00	47.16	H	N
ATOM	9090	CE1	HIS	H	172	19.996	12.359	-17.153	1.00	43.46	H	C
ATOM	9092	NE2	HIS	H	172	21.228	12.158	-17.577	1.00	48.54	H	N
ATOM	9094	CD2	HIS	H	172	21.289	10.943	-18.220	1.00	45.85	H	C
ATOM	9096	C	HIS	H	172	18.343	7.001	-18.333	1.00	39.00	H	C
ATOM	9097	O	HIS	H	172	19.148	6.307	-18.962	1.00	45.19	H	O
ATOM	9099	N	THR	H	173	17.070	6.684	-18.178	1.00	40.10	H	N
ATOM	9100	CA	THR	H	173	16.470	5.520	-18.828	1.00	39.09	H	C
ATOM	9102	CB	THR	H	173	15.689	4.676	-17.841	1.00	35.21	H	C
ATOM	9104	OG1	THR	H	173	16.626	4.011	-16.986	1.00	38.93	H	O
ATOM	9106	CG2	THR	H	173	14.834	3.661	-18.558	1.00	30.16	H	C
ATOM	9110	C	THR	H	173	15.583	6.039	-19.937	1.00	39.08	H	C
ATOM	9111	O	THR	H	173	14.601	6.738	-19.692	1.00	40.91	H	O
ATOM	9113	N	PHE	H	174	15.959	5.727	-21.170	1.00	40.19	H	N
ATOM	9114	CA	PHE	H	174	15.352	6.379	-22.321	1.00	39.23	H	C
ATOM	9116	CB	PHE	H	174	16.277	6.320	-23.536	1.00	36.98	H	C
ATOM	9119	CG	PHE	H	174	17.543	7.115	-23.366	1.00	37.32	H	C
ATOM	9120	CD1	PHE	H	174	17.546	8.486	-23.572	1.00	41.02	H	C
ATOM	9122	CE1	PHE	H	174	18.689	9.214	-23.413	1.00	36.21	H	C
ATOM	9124	CZ	PHE	H	174	19.858	8.584	-23.044	1.00	35.93	H	C
ATOM	9126	CE2	PHE	H	174	19.874	7.215	-22.847	1.00	37.04	H	C
ATOM	9128	CD2	PHE	H	174	18.728	6.496	-22.997	1.00	37.31	H	C
ATOM	9130	C	PHE	H	174	14.013	5.757	-22.643	1.00	39.98	H	C
ATOM	9131	O	PHE	H	174	13.828	4.574	-22.444	1.00	42.53	H	O
ATOM	9133	N	PRO	H	175	13.067	6.572	-23.139	1.00	41.12	H	N
ATOM	9134	CA	PRO	H	175	11.824	6.008	-23.617	1.00	40.00	H	C
ATOM	9136	CB	PRO	H	175	11.083	7.230	-24.181	1.00	39.62	H	C
ATOM	9139	CG	PRO	H	175	11.625	8.371	-23.437	1.00	42.28	H	C
ATOM	9142	CD	PRO	H	175	13.073	8.043	-23.273	1.00	45.24	H	C
ATOM	9145	C	PRO	H	175	12.067	4.967	-24.708	1.00	42.55	H	C
ATOM	9146	O	PRO	H	175	12.945	5.146	-25.575	1.00	44.24	H	O
ATOM	9147	N	ALA	H	176	11.258	3.914	-24.673	1.00	41.96	H	N
ATOM	9148	CA	ALA	H	176	11.309	2.854	-25.659	1.00	41.92	H	C
ATOM	9150	CB	ALA	H	176	10.317	1.779	-25.289	1.00	42.76	H	C
ATOM	9154	C	ALA	H	176	10.976	3.377	-27.038	1.00	43.59	H	C
ATOM	9155	O	ALA	H	176	10.102	4.228	-27.172	1.00	43.47	H	O

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ATOM	9157	N	VAL	H	177	11.661	2.851	-28.054	1.00	45.84	H	N
ATOM	9158	CA	VAL	H	177	11.301	3.112	-29.440	1.00	43.47	H	C
ATOM	9160	CB	VAL	H	177	12.415	3.821	-30.256	1.00	48.12	H	C
ATOM	9162	CG1	VAL	H	177	11.998	3.931	-31.733	1.00	45.24	H	C
ATOM	9166	CG2	VAL	H	177	12.705	5.217	-29.678	1.00	49.52	H	C
ATOM	9170	C	VAL	H	177	10.918	1.815	-30.137	1.00	44.50	H	C
ATOM	9171	O	VAL	H	177	11.522	0.780	-29.920	1.00	48.47	H	O
ATOM	9173	N	LEU	H	178	9.907	1.897	-30.990	1.00	47.73	H	N
ATOM	9174	CA	LEU	H	178	9.437	0.760	-31.747	1.00	46.99	H	C
ATOM	9176	CB	LEU	H	178	7.973	0.963	-32.156	1.00	50.11	H	C
ATOM	9179	CG	LEU	H	178	7.167	-0.265	-32.622	1.00	51.37	H	C
ATOM	9181	CD1	LEU	H	178	7.151	-1.406	-31.572	1.00	48.44	H	C
ATOM	9185	CD2	LEU	H	178	5.735	0.154	-32.974	1.00	49.05	H	C
ATOM	9189	C	LEU	H	178	10.299	0.592	-32.985	1.00	49.30	H	C
ATOM	9190	O	LEU	H	178	10.285	1.432	-33.877	1.00	52.49	H	O
ATOM	9192	N	GLN	H	179	11.050	-0.501	-33.035	1.00	49.34	H	N
ATOM	9193	CA	GLN	H	179	11.889	-0.817	-34.164	1.00	47.35	H	C
ATOM	9195	CB	GLN	H	179	12.837	-1.950	-33.786	1.00	47.18	H	C
ATOM	9198	CG	GLN	H	179	13.808	-1.532	-32.707	1.00	49.69	H	C
ATOM	9201	CD	GLN	H	179	14.519	-2.689	-32.093	1.00	53.67	H	C
ATOM	9202	OE1	GLN	H	179	13.891	-3.589	-31.531	1.00	59.36	H	O
ATOM	9203	NE2	GLN	H	179	15.845	-2.674	-32.170	1.00	55.87	H	N
ATOM	9206	C	GLN	H	179	11.017	-1.229	-35.331	1.00	46.64	H	C
ATOM	9207	O	GLN	H	179	9.828	-1.472	-35.163	1.00	48.17	H	O
ATOM	9209	N	SER	H	180	11.614	-1.329	-36.511	1.00	48.88	H	N
ATOM	9210	CA	SER	H	180	10.881	-1.727	-37.712	1.00	51.20	H	C
ATOM	9212	CB	SER	H	180	11.781	-1.636	-38.947	1.00	53.59	H	C
ATOM	9215	OG	SER	H	180	12.870	-2.527	-38.817	1.00	57.94	H	O
ATOM	9217	C	SER	H	180	10.320	-3.136	-37.591	1.00	51.63	H	C
ATOM	9218	O	SER	H	180	9.391	-3.508	-38.301	1.00	49.96	H	O
ATOM	9220	N	SER	H	181	10.890	-3.914	-36.681	1.00	53.44	H	N
ATOM	9221	CA	SER	H	181	10.468	-5.290	-36.432	1.00	51.01	H	C
ATOM	9223	CB	SER	H	181	11.593	-6.014	-35.697	1.00	52.96	H	C
ATOM	9226	OG	SER	H	181	12.047	-5.237	-34.602	1.00	53.95	H	O
ATOM	9228	C	SER	H	181	9.185	-5.407	-35.602	1.00	52.52	H	C
ATOM	9229	O	SER	H	181	8.630	-6.499	-35.445	1.00	52.47	H	O
ATOM	9231	N	GLY	H	182	8.707	-4.295	-35.056	1.00	52.16	H	N
ATOM	9232	CA	GLY	H	182	7.573	-4.344	-34.144	1.00	49.10	H	C
ATOM	9235	C	GLY	H	182	7.976	-4.779	-32.742	1.00	47.72	H	C
ATOM	9236	O	GLY	H	182	7.132	-5.197	-31.943	1.00	50.01	H	O
ATOM	9238	N	LEU	H	183	9.265	-4.687	-32.443	1.00	45.04	H	N
ATOM	9239	CA	LEU	H	183	9.790	-5.012	-31.117	1.00	47.46	H	C
ATOM	9241	CB	LEU	H	183	10.926	-6.051	-31.195	1.00	45.78	H	C
ATOM	9244	CG	LEU	H	183	10.637	-7.435	-31.772	1.00	45.87	H	C
ATOM	9246	CD1	LEU	H	183	11.929	-8.234	-31.858	1.00	44.77	H	C
ATOM	9250	CD2	LEU	H	183	9.610	-8.160	-30.930	1.00	42.52	H	C
ATOM	9254	C	LEU	H	183	10.347	-3.717	-30.523	1.00	47.06	H	C
ATOM	9255	O	LEU	H	183	10.954	-2.923	-31.243	1.00	46.04	H	O
ATOM	9257	N	TYR	H	184	10.175	-3.528	-29.221	1.00	43.71	H	N
ATOM	9258	CA	TYR	H	184	10.705	-2.330	-28.570	1.00	43.44	H	C
ATOM	9260	CB	TYR	H	184	9.903	-1.963	-27.328	1.00	45.32	H	C
ATOM	9263	CG	TYR	H	184	8.517	-1.462	-27.631	1.00	45.63	H	C
ATOM	9264	CD1	TYR	H	184	8.291	-0.114	-27.932	1.00	47.91	H	C
ATOM	9266	CE1	TYR	H	184	7.027	0.357	-28.206	1.00	46.89	H	C
ATOM	9268	CZ	TYR	H	184	5.963	-0.518	-28.168	1.00	46.18	H	C
ATOM	9269	OH	TYR	H	184	4.696	-0.077	-28.434	1.00	45.93	H	O
ATOM	9271	CE2	TYR	H	184	6.160	-1.853	-27.860	1.00	47.38	H	C
ATOM	9273	CD2	TYR	H	184	7.431	-2.320	-27.597	1.00	44.51	H	C
ATOM	9275	C	TYR	H	184	12.169	-2.468	-28.183	1.00	40.25	H	C
ATOM	9276	O	TYR	H	184	12.660	-3.565	-27.907	1.00	39.41	H	O
ATOM	9278	N	SER	H	185	12.855	-1.335	-28.146	1.00	39.04	H	N
ATOM	9279	CA	SER	H	185	14.213	-1.307	-27.670	1.00	42.98	H	C
ATOM	9281	CB	SER	H	185	15.179	-1.452	-28.863	1.00	45.82	H	C
ATOM	9284	OG	SER	H	185	16.516	-1.399	-28.427	1.00	47.49	H	O
ATOM	9286	C	SER	H	185	14.476	-0.023	-26.915	1.00	41.19	H	C
ATOM	9287	O	SER	H	185	13.913	1.021	-27.229	1.00	42.25	H	O
ATOM	9289	N	LEU	H	186	15.326	-0.111	-25.906	1.00	43.63	H	N
ATOM	9290	CA	LEU	H	186	15.695	1.050	-25.096	1.00	43.06	H	C

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ATOM	9292	CB	LEU	H	186	14.644	1.391	-24.043	1.00	42.69	H	C
ATOM	9295	CG	LEU	H	186	14.528	0.577	-22.765	1.00	42.26	H	C
ATOM	9297	CD1	LEU	H	186	15.661	0.850	-21.783	1.00	33.31	H	C
ATOM	9301	CD2	LEU	H	186	13.166	0.945	-22.148	1.00	44.38	H	C
ATOM	9305	C	LEU	H	186	17.030	0.801	-24.442	1.00	44.39	H	C
ATOM	9306	O	LEU	H	186	17.462	-0.346	-24.311	1.00	43.04	H	O
ATOM	9308	N	SER	H	187	17.677	1.896	-24.056	1.00	46.61	H	N
ATOM	9309	CA	SER	H	187	18.906	1.870	-23.302	1.00	39.45	H	C
ATOM	9311	CB	SER	H	187	20.036	2.502	-24.118	1.00	43.73	H	C
ATOM	9314	OG	SER	H	187	20.602	1.597	-25.064	1.00	42.54	H	O
ATOM	9316	C	SER	H	187	18.701	2.640	-22.006	1.00	37.79	H	C
ATOM	9317	O	SER	H	187	17.951	3.612	-21.941	1.00	36.72	H	O
ATOM	9319	N	SER	H	188	19.339	2.171	-20.955	1.00	39.93	H	N
ATOM	9320	CA	SER	H	188	19.397	2.897	-19.707	1.00	40.27	H	C
ATOM	9322	CB	SER	H	188	18.879	2.036	-18.555	1.00	37.81	H	C
ATOM	9325	OG	SER	H	188	18.694	2.839	-17.413	1.00	38.20	H	O
ATOM	9327	C	SER	H	188	20.853	3.212	-19.525	1.00	39.95	H	C
ATOM	9328	O	SER	H	188	21.683	2.340	-19.736	1.00	39.14	H	O
ATOM	9330	N	VAL	H	189	21.180	4.455	-19.188	1.00	42.77	H	N
ATOM	9331	CA	VAL	H	189	22.586	4.815	-18.908	1.00	43.87	H	C
ATOM	9333	CB	VAL	H	189	23.210	5.709	-20.023	1.00	43.83	H	C
ATOM	9335	CG1	VAL	H	189	23.155	4.992	-21.377	1.00	41.98	H	C
ATOM	9339	CG2	VAL	H	189	22.514	7.058	-20.099	1.00	35.58	H	C
ATOM	9343	C	VAL	H	189	22.717	5.488	-17.546	1.00	45.13	H	C
ATOM	9344	O	VAL	H	189	21.737	5.980	-16.993	1.00	46.37	H	O
ATOM	9346	N	VAL	H	190	23.921	5.440	-16.999	1.00	44.81	H	N
ATOM	9347	CA	VAL	H	190	24.267	6.137	-15.773	1.00	46.26	H	C
ATOM	9349	CB	VAL	H	190	24.152	5.226	-14.553	1.00	43.18	H	C
ATOM	9351	CG1	VAL	H	190	24.975	3.946	-14.754	1.00	39.28	H	C
ATOM	9355	CG2	VAL	H	190	24.580	5.986	-13.300	1.00	41.41	H	C
ATOM	9359	C	VAL	H	190	25.724	6.653	-15.877	1.00	48.98	H	C
ATOM	9360	O	VAL	H	190	26.622	5.940	-16.352	1.00	46.58	H	O
ATOM	9362	N	THR	H	191	25.939	7.898	-15.461	1.00	49.75	H	N
ATOM	9363	CA	THR	H	191	27.282	8.458	-15.341	1.00	51.45	H	C
ATOM	9365	CB	THR	H	191	27.342	9.924	-15.836	1.00	50.75	H	C
ATOM	9367	OG1	THR	H	191	26.065	10.549	-15.648	1.00	56.96	H	O
ATOM	9369	CG2	THR	H	191	27.674	9.974	-17.332	1.00	52.88	H	C
ATOM	9373	C	THR	H	191	27.740	8.324	-13.882	1.00	51.60	H	C
ATOM	9374	O	THR	H	191	27.030	8.714	-12.960	1.00	52.06	H	O
ATOM	9376	N	VAL	H	192	28.925	7.750	-13.699	1.00	54.85	H	N
ATOM	9377	CA	VAL	H	192	29.520	7.486	-12.386	1.00	57.62	H	C
ATOM	9379	CB	VAL	H	192	29.578	5.962	-12.131	1.00	54.49	H	C
ATOM	9381	CG1	VAL	H	192	30.349	5.260	-13.229	1.00	56.43	H	C
ATOM	9385	CG2	VAL	H	192	30.226	5.669	-10.798	1.00	57.27	H	C
ATOM	9389	C	VAL	H	192	30.960	8.076	-12.318	1.00	62.03	H	C
ATOM	9390	O	VAL	H	192	31.556	8.341	-13.354	1.00	62.24	H	O
ATOM	9392	N	PRO	H	193	31.498	8.351	-11.103	1.00	66.85	H	N
ATOM	9393	CA	PRO	H	193	32.956	8.515	-10.994	1.00	65.53	H	C
ATOM	9395	CB	PRO	H	193	33.201	8.615	-9.478	1.00	66.15	H	C
ATOM	9398	CG	PRO	H	193	31.878	8.391	-8.815	1.00	66.24	H	C
ATOM	9401	CD	PRO	H	193	30.826	8.664	-9.828	1.00	66.54	H	C
ATOM	9404	C	PRO	H	193	33.776	7.359	-11.597	1.00	67.53	H	C
ATOM	9405	O	PRO	H	193	33.376	6.196	-11.505	1.00	65.84	H	O
ATOM	9406	N	SER	H	194	34.915	7.690	-12.203	1.00	69.86	H	N
ATOM	9407	CA	SER	H	194	35.774	6.690	-12.846	1.00	70.78	H	C
ATOM	9409	CB	SER	H	194	36.784	7.361	-13.782	1.00	70.20	H	C
ATOM	9412	OG	SER	H	194	36.152	7.874	-14.941	1.00	71.59	H	O
ATOM	9414	C	SER	H	194	36.511	5.828	-11.822	1.00	71.77	H	C
ATOM	9415	O	SER	H	194	36.640	4.618	-11.996	1.00	68.40	H	O
ATOM	9417	N	SER	H	195	37.002	6.464	-10.762	1.00	74.61	H	N
ATOM	9418	CA	SER	H	195	37.690	5.763	-9.676	1.00	76.05	H	C
ATOM	9420	CB	SER	H	195	38.089	6.757	-8.579	1.00	77.52	H	C
ATOM	9423	OG	SER	H	195	36.975	7.532	-8.155	1.00	78.25	H	O
ATOM	9425	C	SER	H	195	36.836	4.634	-9.084	1.00	77.66	H	C
ATOM	9426	O	SER	H	195	37.374	3.620	-8.623	1.00	76.66	H	O
ATOM	9428	N	SER	H	196	35.514	4.818	-9.115	1.00	78.30	H	N
ATOM	9429	CA	SER	H	196	34.553	3.850	-8.578	1.00	78.76	H	C
ATOM	9431	CB	SER	H	196	33.144	4.438	-8.630	1.00	83.25	H	C

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ATOM	9434	OG	SER	H	196	32.188	3.464	-8.261	1.00	86.36	H	O
ATOM	9436	C	SER	H	196	34.538	2.498	-9.290	1.00	78.25	H	C
ATOM	9437	O	SER	H	196	34.191	1.485	-8.683	1.00	77.35	H	O
ATOM	9439	N	LEU	H	197	34.899	2.487	-10.572	1.00	78.82	H	N
ATOM	9440	CA	LEU	H	197	34.935	1.247	-11.363	1.00	79.00	H	C
ATOM	9442	CB	LEU	H	197	35.247	1.545	-12.835	1.00	77.46	H	C
ATOM	9445	CG	LEU	H	197	34.137	2.087	-13.742	1.00	76.25	H	C
ATOM	9447	CD1	LEU	H	197	33.429	3.270	-13.133	1.00	76.60	H	C
ATOM	9451	CD2	LEU	H	197	34.726	2.470	-15.102	1.00	78.68	H	C
ATOM	9455	C	LEU	H	197	35.977	0.285	-10.795	1.00	80.70	H	C
ATOM	9456	O	LEU	H	197	36.875	0.701	-10.057	1.00	83.00	H	O
ATOM	9458	N	GLY	H	198	35.844	-1.000	-11.115	1.00	81.01	H	N
ATOM	9459	CA	GLY	H	198	36.741	-2.028	-10.571	1.00	82.81	H	C
ATOM	9462	C	GLY	H	198	36.483	-2.423	-9.116	1.00	84.82	H	C
ATOM	9463	O	GLY	H	198	36.642	-3.598	-8.758	1.00	84.22	H	O
ATOM	9465	N	THR	H	199	36.110	-1.448	-8.276	1.00	84.80	H	N
ATOM	9466	CA	THR	H	199	35.787	-1.686	-6.863	1.00	83.33	H	C
ATOM	9468	CB	THR	H	199	36.358	-0.577	-5.975	1.00	86.44	H	C
ATOM	9470	OG1	THR	H	199	37.775	-0.490	-6.172	1.00	89.54	H	O
ATOM	9472	CG2	THR	H	199	36.052	-0.849	-4.495	1.00	86.08	H	C
ATOM	9476	C	THR	H	199	34.274	-1.809	-6.625	1.00	83.43	H	C
ATOM	9477	O	THR	H	199	33.800	-2.864	-6.210	1.00	84.75	H	O
ATOM	9479	N	GLN	H	200	33.530	-0.732	-6.881	1.00	80.48	H	N
ATOM	9480	CA	GLN	H	200	32.060	-0.749	-6.812	1.00	77.33	H	C
ATOM	9482	CB	GLN	H	200	31.512	0.681	-6.677	1.00	79.01	H	C
ATOM	9485	CG	GLN	H	200	30.042	0.885	-7.059	1.00	79.89	H	C
ATOM	9488	CD	GLN	H	200	29.078	0.587	-5.921	1.00	81.86	H	C
ATOM	9489	OE1	GLN	H	200	28.549	-0.525	-5.812	1.00	81.90	H	O
ATOM	9490	NE2	GLN	H	200	28.838	1.587	-5.071	1.00	78.91	H	N
ATOM	9493	C	GLN	H	200	31.488	-1.431	-8.062	1.00	75.24	H	C
ATOM	9494	O	GLN	H	200	31.795	-1.027	-9.184	1.00	74.83	H	O
ATOM	9496	N	THR	H	201	30.650	-2.449	-7.861	1.00	72.53	H	N
ATOM	9497	CA	THR	H	201	30.041	-3.175	-8.977	1.00	70.91	H	C
ATOM	9499	CB	THR	H	201	29.934	-4.693	-8.685	1.00	74.12	H	C
ATOM	9501	OG1	THR	H	201	30.058	-5.425	-9.914	1.00	78.67	H	O
ATOM	9503	CG2	THR	H	201	28.627	-5.046	-7.979	1.00	74.72	H	C
ATOM	9507	C	THR	H	201	28.696	-2.540	-9.381	1.00	69.53	H	C
ATOM	9508	O	THR	H	201	27.993	-1.969	-8.538	1.00	68.84	H	O
ATOM	9510	N	TYR	H	202	28.379	-2.625	-10.679	1.00	65.85	H	N
ATOM	9511	CA	TYR	H	202	27.205	-1.974	-11.290	1.00	60.67	H	C
ATOM	9513	CB	TYR	H	202	27.660	-0.909	-12.283	1.00	61.49	H	C
ATOM	9516	CG	TYR	H	202	28.338	0.234	-11.608	1.00	62.94	H	C
ATOM	9517	CD1	TYR	H	202	27.607	1.139	-10.851	1.00	61.94	H	C
ATOM	9519	CE1	TYR	H	202	28.226	2.179	-10.206	1.00	62.61	H	C
ATOM	9521	CZ	TYR	H	202	29.595	2.325	-10.313	1.00	61.00	H	C
ATOM	9522	OH	TYR	H	202	30.208	3.360	-9.671	1.00	64.17	H	O
ATOM	9524	CE2	TYR	H	202	30.342	1.449	-11.053	1.00	60.00	H	C
ATOM	9526	CD2	TYR	H	202	29.716	0.403	-11.694	1.00	62.36	H	C
ATOM	9528	C	TYR	H	202	26.339	-2.963	-12.049	1.00	56.01	H	C
ATOM	9529	O	TYR	H	202	26.779	-3.544	-13.037	1.00	50.08	H	O
ATOM	9531	N	ILE	H	203	25.100	-3.131	-11.592	1.00	56.23	H	N
ATOM	9532	CA	ILE	H	203	24.170	-4.079	-12.195	1.00	55.56	H	C
ATOM	9534	CB	ILE	H	203	23.821	-5.243	-11.247	1.00	56.28	H	C
ATOM	9536	CG1	ILE	H	203	25.095	-5.868	-10.663	1.00	55.50	H	C
ATOM	9539	CD1	ILE	H	203	24.865	-6.586	-9.358	1.00	55.61	H	C
ATOM	9543	CG2	ILE	H	203	23.013	-6.309	-11.982	1.00	52.74	H	C
ATOM	9547	C	ILE	H	203	22.917	-3.324	-12.604	1.00	51.64	H	C
ATOM	9548	O	ILE	H	203	22.441	-2.451	-11.885	1.00	49.15	H	O
ATOM	9550	N	CYS	H	204	22.422	-3.640	-13.795	1.00	50.38	H	N
ATOM	9551	CA	CYS	H	204	21.134	-3.149	-14.259	1.00	48.93	H	C
ATOM	9553	CB	CYS	H	204	21.231	-2.699	-15.733	1.00	48.68	H	C
ATOM	9556	SG	CYS	H	204	21.530	-4.012	-16.959	1.00	52.72	H	S
ATOM	9558	C	CYS	H	204	20.102	-4.266	-14.052	1.00	45.45	H	C
ATOM	9559	O	CYS	H	204	20.310	-5.414	-14.467	1.00	40.75	H	O
ATOM	9561	N	ASN	H	205	19.019	-3.925	-13.367	1.00	43.41	H	N
ATOM	9562	CA	ASN	H	205	17.948	-4.862	-13.078	1.00	44.04	H	C
ATOM	9564	CB	ASN	H	205	17.548	-4.745	-11.618	1.00	39.09	H	C
ATOM	9567	CG	ASN	H	205	18.747	-4.584	-10.722	1.00	41.87	H	C

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ATOM	9568	OD1	ASN	H	205	18.994	-3.502	-10.201	1.00	40.79	H	O
ATOM	9569	ND2	ASN	H	205	19.548	-5.642	-10.599	1.00	39.97	H	N
ATOM	9572	C	ASN	H	205	16.792	-4.556	-14.013	1.00	41.64	H	C
ATOM	9573	O	ASN	H	205	16.123	-3.528	-13.905	1.00	41.30	H	O
ATOM	9575	N	VAL	H	206	16.579	-5.459	-14.948	1.00	39.92	H	N
ATOM	9576	CA	VAL	H	206	15.583	-5.281	-15.977	1.00	40.33	H	C
ATOM	9578	CB	VAL	H	206	16.212	-5.520	-17.365	1.00	36.78	H	C
ATOM	9580	CG1	VAL	H	206	15.165	-5.404	-18.497	1.00	33.62	H	C
ATOM	9584	CG2	VAL	H	206	17.371	-4.542	-17.580	1.00	40.68	H	C
ATOM	9588	C	VAL	H	206	14.450	-6.268	-15.703	1.00	39.13	H	C
ATOM	9589	O	VAL	H	206	14.700	-7.466	-15.570	1.00	36.96	H	O
ATOM	9591	N	ASN	H	207	13.228	-5.737	-15.582	1.00	40.08	H	N
ATOM	9592	CA	ASN	H	207	12.049	-6.532	-15.371	1.00	41.51	H	C
ATOM	9594	CB	ASN	H	207	11.435	-6.196	-14.009	1.00	41.52	H	C
ATOM	9597	CG	ASN	H	207	10.395	-7.204	-13.572	1.00	40.87	H	C
ATOM	9598	OD1	ASN	H	207	10.618	-8.398	-13.626	1.00	46.27	H	O
ATOM	9599	ND2	ASN	H	207	9.252	-6.719	-13.144	1.00	48.80	H	N
ATOM	9602	C	ASN	H	207	11.066	-6.291	-16.512	1.00	43.64	H	C
ATOM	9603	O	ASN	H	207	10.805	-5.151	-16.879	1.00	42.50	H	O
ATOM	9605	N	HIS	H	208	10.558	-7.383	-17.084	1.00	43.58	H	N
ATOM	9606	CA	HIS	H	208	9.588	-7.330	-18.148	1.00	40.01	H	C
ATOM	9608	CB	HIS	H	208	10.257	-7.710	-19.462	1.00	36.58	H	C
ATOM	9611	CG	HIS	H	208	9.329	-7.744	-20.633	1.00	38.15	H	C
ATOM	9612	ND1	HIS	H	208	8.715	-6.614	-21.136	1.00	38.16	H	N
ATOM	9614	CE1	HIS	H	208	7.974	-6.952	-22.176	1.00	37.26	H	C
ATOM	9616	NE2	HIS	H	208	8.098	-8.252	-22.376	1.00	36.08	H	N
ATOM	9618	CD2	HIS	H	208	8.929	-8.770	-21.416	1.00	32.56	H	C
ATOM	9620	C	HIS	H	208	8.479	-8.304	-17.784	1.00	39.63	H	C
ATOM	9621	O	HIS	H	208	8.565	-9.479	-18.123	1.00	42.51	H	O
ATOM	9623	N	LYS	H	209	7.440	-7.785	-17.116	1.00	39.40	H	N
ATOM	9624	CA	LYS	H	209	6.361	-8.577	-16.536	1.00	42.78	H	C
ATOM	9626	CB	LYS	H	209	5.412	-7.677	-15.725	1.00	44.50	H	C
ATOM	9629	CG	LYS	H	209	6.011	-7.148	-14.461	1.00	48.65	H	C
ATOM	9632	CD	LYS	H	209	5.077	-6.149	-13.773	1.00	50.95	H	C
ATOM	9635	CE	LYS	H	209	5.577	-5.740	-12.388	1.00	52.83	H	C
ATOM	9638	NZ	LYS	H	209	4.864	-4.517	-11.892	1.00	55.49	H	N
ATOM	9642	C	LYS	H	209	5.547	-9.372	-17.548	1.00	43.59	H	C
ATOM	9643	O	LYS	H	209	5.163	-10.508	-17.268	1.00	44.62	H	O
ATOM	9645	N	PRO	H	210	5.232	-8.767	-18.703	1.00	43.11	H	N
ATOM	9646	CA	PRO	H	210	4.460	-9.512	-19.692	1.00	44.51	H	C
ATOM	9648	CB	PRO	H	210	4.472	-8.591	-20.902	1.00	47.73	H	C
ATOM	9651	CG	PRO	H	210	4.584	-7.217	-20.303	1.00	46.77	H	C
ATOM	9654	CD	PRO	H	210	5.513	-7.387	-19.149	1.00	43.15	H	C
ATOM	9657	C	PRO	H	210	5.060	-10.854	-20.061	1.00	45.26	H	C
ATOM	9658	O	PRO	H	210	4.308	-11.791	-20.321	1.00	47.05	H	O
ATOM	9659	N	SER	H	211	6.386	-10.964	-20.067	1.00	46.02	H	N
ATOM	9660	CA	SER	H	211	7.047	-12.245	-20.388	1.00	45.93	H	C
ATOM	9662	CB	SER	H	211	8.191	-12.008	-21.377	1.00	42.90	H	C
ATOM	9665	OG	SER	H	211	9.380	-11.542	-20.733	1.00	33.39	H	O
ATOM	9667	C	SER	H	211	7.587	-12.969	-19.160	1.00	44.32	H	C
ATOM	9668	O	SER	H	211	8.271	-13.973	-19.290	1.00	43.74	H	O
ATOM	9670	N	ASN	H	212	7.292	-12.434	-17.980	1.00	47.88	H	N
ATOM	9671	CA	ASN	H	212	7.905	-12.870	-16.707	1.00	49.36	H	C
ATOM	9673	CB	ASN	H	212	7.342	-14.224	-16.264	1.00	50.79	H	C
ATOM	9676	CG	ASN	H	212	5.844	-14.265	-16.323	1.00	52.28	H	C
ATOM	9677	OD1	ASN	H	212	5.159	-13.496	-15.638	1.00	47.66	H	O
ATOM	9678	ND2	ASN	H	212	5.317	-15.147	-17.163	1.00	55.13	H	N
ATOM	9681	C	ASN	H	212	9.418	-12.971	-16.746	1.00	49.44	H	C
ATOM	9682	O	ASN	H	212	9.985	-13.870	-16.132	1.00	50.09	H	O
ATOM	9684	N	THR	H	213	10.065	-12.057	-17.463	1.00	50.19	H	N
ATOM	9685	CA	THR	H	213	11.524	-12.068	-17.595	1.00	50.92	H	C
ATOM	9687	CB	THR	H	213	11.973	-11.913	-19.046	1.00	47.24	H	C
ATOM	9689	OG1	THR	H	213	11.348	-12.929	-19.846	1.00	47.32	H	O
ATOM	9691	CG2	THR	H	213	13.473	-12.068	-19.131	1.00	45.56	H	C
ATOM	9695	C	THR	H	213	12.201	-11.007	-16.718	1.00	50.20	H	C
ATOM	9696	O	THR	H	213	11.944	-9.797	-16.849	1.00	48.21	H	O
ATOM	9698	N	LYS	H	214	13.066	-11.482	-15.820	1.00	54.79	H	N
ATOM	9699	CA	LYS	H	214	13.887	-10.606	-14.970	1.00	54.47	H	C

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ATOM	9701	CB	LYS	H	214	13.558	-10.755	-13.487	1.00	54.14	H	C
ATOM	9704	CG	LYS	H	214	14.215	-9.686	-12.617	1.00	58.38	H	C
ATOM	9707	CD	LYS	H	214	14.077	-9.966	-11.116	1.00	61.54	H	C
ATOM	9710	CE	LYS	H	214	12.627	-9.846	-10.630	1.00	66.20	H	C
ATOM	9713	NZ	LYS	H	214	12.510	-9.965	-9.124	1.00	65.86	H	N
ATOM	9717	C	LYS	H	214	15.371	-10.898	-15.198	1.00	54.93	H	C
ATOM	9718	O	LYS	H	214	15.832	-12.019	-15.015	1.00	55.62	H	O
ATOM	9720	N	VAL	H	215	16.108	-9.873	-15.604	1.00	54.51	H	N
ATOM	9721	CA	VAL	H	215	17.529	-9.995	-15.871	1.00	52.81	H	C
ATOM	9723	CB	VAL	H	215	17.888	-9.630	-17.346	1.00	47.64	H	C
ATOM	9725	CG1	VAL	H	215	19.366	-9.822	-17.606	1.00	45.37	H	C
ATOM	9729	CG2	VAL	H	215	17.071	-10.448	-18.336	1.00	44.93	H	C
ATOM	9733	C	VAL	H	215	18.298	-9.071	-14.943	1.00	53.03	H	C
ATOM	9734	O	VAL	H	215	17.914	-7.926	-14.726	1.00	52.97	H	O
ATOM	9736	N	ASP	H	216	19.375	-9.585	-14.367	1.00	53.61	H	N
ATOM	9737	CA	ASP	H	216	20.311	-8.754	-13.612	1.00	55.12	H	C
ATOM	9739	CB	ASP	H	216	20.410	-9.195	-12.148	1.00	53.31	H	C
ATOM	9742	CG	ASP	H	216	19.064	-9.253	-11.474	1.00	54.40	H	C
ATOM	9743	OD1	ASP	H	216	18.418	-8.192	-11.360	1.00	54.45	H	O
ATOM	9744	OD2	ASP	H	216	18.648	-10.363	-11.072	1.00	59.35	H	O
ATOM	9745	C	ASP	H	216	21.657	-8.873	-14.311	1.00	54.36	H	C
ATOM	9746	O	ASP	H	216	22.263	-9.941	-14.335	1.00	55.93	H	O
ATOM	9748	N	LYS	H	217	22.118	-7.783	-14.900	1.00	52.86	H	N
ATOM	9749	CA	LYS	H	217	23.320	-7.835	-15.709	1.00	53.23	H	C
ATOM	9751	CB	LYS	H	217	23.014	-7.527	-17.171	1.00	52.88	H	C
ATOM	9754	CG	LYS	H	217	24.253	-7.483	-18.065	1.00	54.51	H	C
ATOM	9757	CD	LYS	H	217	23.953	-7.938	-19.477	1.00	57.52	H	C
ATOM	9760	CE	LYS	H	217	24.294	-9.414	-19.678	1.00	60.10	H	C
ATOM	9763	NZ	LYS	H	217	24.012	-9.925	-21.055	1.00	53.62	H	N
ATOM	9767	C	LYS	H	217	24.411	-6.928	-15.153	1.00	51.61	H	C
ATOM	9768	O	LYS	H	217	24.243	-5.712	-15.049	1.00	47.99	H	O
ATOM	9770	N	LYS	H	218	25.523	-7.559	-14.783	1.00	56.27	H	N
ATOM	9771	CA	LYS	H	218	26.703	-6.864	-14.325	1.00	58.26	H	C
ATOM	9773	CB	LYS	H	218	27.721	-7.860	-13.742	1.00	61.31	H	C
ATOM	9776	CG	LYS	H	218	27.329	-8.418	-12.364	1.00	64.90	H	C
ATOM	9779	CD	LYS	H	218	28.319	-9.460	-11.792	1.00	64.68	H	C
ATOM	9782	CE	LYS	H	218	27.928	-10.912	-12.122	1.00	69.23	H	C
ATOM	9785	NZ	LYS	H	218	28.514	-11.428	-13.423	1.00	69.44	H	N
ATOM	9789	C	LYS	H	218	27.291	-6.142	-15.522	1.00	58.21	H	C
ATOM	9790	O	LYS	H	218	27.468	-6.740	-16.587	1.00	58.68	H	O
ATOM	9792	N	VAL	H	219	27.551	-4.848	-15.365	1.00	56.06	H	N
ATOM	9793	CA	VAL	H	219	28.163	-4.062	-16.435	1.00	56.27	H	C
ATOM	9795	CB	VAL	H	219	27.349	-2.797	-16.751	1.00	53.08	H	C
ATOM	9797	CG1	VAL	H	219	27.967	-2.033	-17.923	1.00	47.56	H	C
ATOM	9801	CG2	VAL	H	219	25.918	-3.191	-17.052	1.00	49.45	H	C
ATOM	9805	C	VAL	H	219	29.595	-3.732	-16.042	1.00	55.86	H	C
ATOM	9806	O	VAL	H	219	29.842	-2.826	-15.252	1.00	55.73	H	O
ATOM	9808	N	GLU	H	220	30.533	-4.493	-16.598	1.00	58.90	H	N
ATOM	9809	CA	GLU	H	220	31.946	-4.371	-16.255	1.00	62.62	H	C
ATOM	9811	CB	GLU	H	220	32.477	-5.739	-15.809	1.00	62.94	H	C
ATOM	9814	CG	GLU	H	220	32.025	-6.148	-14.403	1.00	67.00	H	C
ATOM	9817	CD	GLU	H	220	31.629	-7.618	-14.273	1.00	68.23	H	C
ATOM	9818	OE1	GLU	H	220	31.359	-8.276	-15.309	1.00	70.86	H	O
ATOM	9819	OE2	GLU	H	220	31.574	-8.112	-13.118	1.00	69.06	H	O
ATOM	9820	C	GLU	H	220	32.797	-3.823	-17.414	1.00	62.91	H	C
ATOM	9821	O	GLU	H	220	32.448	-4.004	-18.586	1.00	60.46	H	O
ATOM	9823	N	PRO	H	221	33.922	-3.158	-17.083	1.00	63.57	H	N
ATOM	9824	CA	PRO	H	221	34.861	-2.644	-18.091	1.00	66.60	H	C
ATOM	9826	CB	PRO	H	221	35.911	-1.894	-17.249	1.00	64.02	H	C
ATOM	9829	CG	PRO	H	221	35.805	-2.450	-15.891	1.00	61.31	H	C
ATOM	9832	CD	PRO	H	221	34.379	-2.868	-15.710	1.00	61.60	H	C
ATOM	9835	C	PRO	H	221	35.533	-3.767	-18.886	1.00	69.39	H	C
ATOM	9836	O	PRO	H	221	35.711	-4.861	-18.352	1.00	69.87	H	O
ATOM	9837	N	LYS	H	222	35.903	-3.495	-20.137	1.00	73.22	H	N
ATOM	9838	CA	LYS	H	222	36.522	-4.509	-21.008	1.00	74.12	H	C
ATOM	9840	CB	LYS	H	222	35.587	-4.848	-22.169	1.00	71.72	H	C
ATOM	9843	CG	LYS	H	222	34.283	-5.526	-21.709	1.00	72.65	H	C
ATOM	9846	CD	LYS	H	222	34.453	-7.015	-21.398	1.00	72.92	H	C

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ATOM	9849	CE	LYS	H	222	33.272	-7.608	-20.606	1.00	72.40	H	C
ATOM	9852	NZ	LYS	H	222	33.596	-7.881	-19.158	1.00	70.05	H	N
ATOM	9856	C	LYS	H	222	37.937	-4.122	-21.494	1.00	74.83	H	C
ATOM	9857	O	LYS	H	222	38.338	-2.962	-21.393	1.00	75.55	H	O
ATOM	9859	N	SER	H	223	38.656	-5.112	-22.039	1.00	72.32	H	N
ATOM	9860	CA	SER	H	223	40.107	-5.056	-22.280	1.00	75.20	H	C
ATOM	9862	CB	SER	H	223	40.685	-6.467	-22.313	1.00	73.77	H	C
ATOM	9865	OG	SER	H	223	40.975	-6.923	-21.022	1.00	74.25	H	O
ATOM	9867	C	SER	H	223	40.596	-4.347	-23.545	1.00	80.84	H	C
ATOM	9868	O	SER	H	223	41.116	-3.228	-23.443	1.00	83.26	H	O
ATOM	9870	N	CYS	H	224	40.499	-5.036	-24.699	1.00	83.94	H	N
ATOM	9871	CA	CYS	H	224	40.952	-4.555	-26.041	1.00	85.60	H	C
ATOM	9873	CB	CYS	H	224	41.338	-3.080	-26.037	1.00	90.17	H	C
ATOM	9876	SG	CYS	H	224	40.032	-1.982	-26.486	1.00	91.75	H	S
ATOM	9878	C	CYS	H	224	42.122	-5.313	-26.691	1.00	87.98	H	C
ATOM	9879	O	CYS	H	224	43.262	-5.190	-26.239	1.00	91.43	H	O
ATOM	9881	OXT	CYS	H	224	41.976	-5.989	-27.720	1.00	82.26	H	O
ATOM	9882	N	ILE	B	16	-75.549	8.158	-84.796	1.00	37.34	B	N
ATOM	9883	CA	ILE	B	16	-75.602	6.669	-84.844	1.00	41.00	B	C
ATOM	9885	CB	ILE	B	16	-77.028	6.178	-85.070	1.00	39.70	B	C
ATOM	9887	CG1	ILE	B	16	-77.947	6.671	-83.941	1.00	40.19	B	C
ATOM	9890	CD1	ILE	B	16	-77.455	6.377	-82.542	1.00	36.48	B	C
ATOM	9894	CG2	ILE	B	16	-77.065	4.659	-85.178	1.00	39.69	B	C
ATOM	9898	C	ILE	B	16	-74.712	6.166	-85.962	1.00	41.64	B	C
ATOM	9899	O	ILE	B	16	-74.984	6.430	-87.127	1.00	41.42	B	O
ATOM	9903	N	LEU	B	17	-73.655	5.435	-85.603	1.00	43.95	B	N
ATOM	9904	CA	LEU	B	17	-72.668	4.942	-86.576	1.00	43.78	B	C
ATOM	9906	CB	LEU	B	17	-71.245	5.229	-86.082	1.00	45.12	B	C
ATOM	9909	CG	LEU	B	17	-70.038	4.596	-86.790	1.00	46.50	B	C
ATOM	9911	CD1	LEU	B	17	-69.040	5.655	-87.245	1.00	48.07	B	C
ATOM	9915	CD2	LEU	B	17	-69.349	3.570	-85.895	1.00	46.80	B	C
ATOM	9919	C	LEU	B	17	-72.908	3.457	-86.854	1.00	43.26	B	C
ATOM	9920	O	LEU	B	17	-73.241	2.697	-85.940	1.00	40.13	B	O
ATOM	9922	N	GLY	B	18	-72.785	3.064	-88.124	1.00	43.20	B	N
ATOM	9923	CA	GLY	B	18	-73.065	1.691	-88.549	1.00	44.81	B	C
ATOM	9926	C	GLY	B	18	-74.523	1.308	-88.351	1.00	46.61	B	C
ATOM	9927	O	GLY	B	18	-74.850	0.141	-88.122	1.00	47.11	B	O
ATOM	9929	N	GLY	B	19	-75.399	2.302	-88.424	1.00	49.23	B	N
ATOM	9930	CA	GLY	B	19	-76.828	2.085	-88.336	1.00	52.43	B	C
ATOM	9933	C	GLY	B	19	-77.454	2.382	-89.682	1.00	55.21	B	C
ATOM	9934	O	GLY	B	19	-76.766	2.411	-90.711	1.00	52.80	B	O
ATOM	9936	N	ARG	B	20	-78.762	2.612	-89.661	1.00	55.61	B	N
ATOM	9937	CA	ARG	B	20	-79.516	2.943	-90.859	1.00	58.41	B	C
ATOM	9939	CB	ARG	B	20	-80.012	1.664	-91.536	1.00	63.68	B	C
ATOM	9942	CG	ARG	B	20	-81.059	0.892	-90.727	1.00	65.31	B	C
ATOM	9945	CD	ARG	B	20	-81.060	-0.582	-91.095	1.00	67.31	B	C
ATOM	9948	NE	ARG	B	20	-82.372	-1.205	-90.915	1.00	69.03	B	N
ATOM	9950	CZ	ARG	B	20	-82.742	-2.371	-91.452	1.00	71.67	B	C
ATOM	9951	NH1	ARG	B	20	-81.906	-3.076	-92.216	1.00	71.24	B	N
ATOM	9954	NH2	ARG	B	20	-83.964	-2.840	-91.224	1.00	71.95	B	N
ATOM	9957	C	ARG	B	20	-80.693	3.828	-90.487	1.00	56.18	B	C
ATOM	9958	O	ARG	B	20	-81.023	3.971	-89.304	1.00	54.73	B	O
ATOM	9960	N	GLU	B	21	-81.328	4.401	-91.504	1.00	53.63	B	N
ATOM	9961	CA	GLU	B	21	-82.417	5.344	-91.314	1.00	51.74	B	C
ATOM	9963	CB	GLU	B	21	-82.847	5.908	-92.673	1.00	55.95	B	C
ATOM	9966	CG	GLU	B	21	-83.760	7.140	-92.606	1.00	56.54	B	C
ATOM	9969	CD	GLU	B	21	-84.202	7.619	-93.982	1.00	57.26	B	C
ATOM	9970	OE1	GLU	B	21	-83.761	7.027	-95.000	1.00	55.92	B	O
ATOM	9971	OE2	GLU	B	21	-84.997	8.586	-94.041	1.00	58.76	B	O
ATOM	9972	C	GLU	B	21	-83.602	4.688	-90.612	1.00	49.12	B	C
ATOM	9973	O	GLU	B	21	-83.997	3.563	-90.942	1.00	47.99	B	O
ATOM	9975	N	ALA	B	22	-84.150	5.400	-89.629	1.00	47.34	B	N
ATOM	9976	CA	ALA	B	22	-85.314	4.933	-88.888	1.00	48.37	B	C
ATOM	9978	CB	ALA	B	22	-85.492	5.766	-87.616	1.00	48.29	B	C
ATOM	9982	C	ALA	B	22	-86.560	5.032	-89.758	1.00	50.53	B	C
ATOM	9983	O	ALA	B	22	-86.605	5.833	-90.700	1.00	47.19	B	O
ATOM	9985	N	GLU	B	23	-87.565	4.212	-89.450	1.00	52.59	B	N
ATOM	9986	CA	GLU	B	23	-88.877	4.349	-90.065	1.00	51.27	B	C

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ATOM	9988	CB	GLU	B	23	-89.752	3.117	-89.775	1.00	54.81	B	C
ATOM	9991	CG	GLU	B	23	-91.057	3.075	-90.589	1.00	56.64	B	C
ATOM	9994	CD	GLU	B	23	-91.979	1.928	-90.187	1.00	58.75	B	C
ATOM	9995	OE1	GLU	B	23	-91.473	0.806	-89.958	1.00	59.07	B	O
ATOM	9996	OE2	GLU	B	23	-93.212	2.152	-90.111	1.00	60.34	B	O
ATOM	9997	C	GLU	B	23	-89.528	5.599	-89.488	1.00	49.54	B	C
ATOM	9998	O	GLU	B	23	-89.700	5.697	-88.270	1.00	49.76	B	O
ATOM	10000	N	ALA	B	24	-89.900	6.539	-90.361	1.00	49.62	B	N
ATOM	10001	CA	ALA	B	24	-90.451	7.826	-89.938	1.00	46.58	B	C
ATOM	10003	CB	ALA	B	24	-91.029	8.571	-91.121	1.00	48.32	B	C
ATOM	10007	C	ALA	B	24	-91.505	7.635	-88.853	1.00	46.97	B	C
ATOM	10008	O	ALA	B	24	-92.429	6.831	-89.002	1.00	50.36	B	O
ATOM	10010	N	HIS	B	25	-91.317	8.340	-87.739	1.00	49.89	B	N
ATOM	10011	CA	HIS	B	25	-92.310	8.438	-86.655	1.00	48.48	B	C
ATOM	10013	CB	HIS	B	25	-93.559	9.189	-87.157	1.00	52.90	B	C
ATOM	10016	CG	HIS	B	25	-93.237	10.434	-87.931	1.00	55.68	B	C
ATOM	10017	ND1	HIS	B	25	-93.290	10.496	-89.310	1.00	56.69	B	N
ATOM	10019	CE1	HIS	B	25	-92.937	11.706	-89.710	1.00	55.84	B	C
ATOM	10021	NE2	HIS	B	25	-92.648	12.430	-88.642	1.00	56.43	B	N
ATOM	10023	CD2	HIS	B	25	-92.822	11.656	-87.518	1.00	56.72	B	C
ATOM	10025	C	HIS	B	25	-92.690	7.096	-86.002	1.00	47.84	B	C
ATOM	10026	O	HIS	B	25	-93.665	7.024	-85.257	1.00	47.07	B	O
ATOM	10028	N	ALA	B	26	-91.896	6.051	-86.248	1.00	50.04	B	N
ATOM	10029	CA	ALA	B	26	-92.093	4.748	-85.597	1.00	49.28	B	C
ATOM	10031	CB	ALA	B	26	-91.314	3.659	-86.334	1.00	49.81	B	C
ATOM	10035	C	ALA	B	26	-91.677	4.803	-84.117	1.00	49.17	B	C
ATOM	10036	O	ALA	B	26	-92.022	3.919	-83.321	1.00	46.71	B	O
ATOM	10038	N	ARG	B	27	-90.922	5.840	-83.763	1.00	50.59	B	N
ATOM	10039	CA	ARG	B	27	-90.523	6.083	-82.387	1.00	49.42	B	C
ATOM	10041	CB	ARG	B	27	-88.999	6.045	-82.283	1.00	53.55	B	C
ATOM	10044	CG	ARG	B	27	-88.464	4.654	-82.541	1.00	53.88	B	C
ATOM	10047	CD	ARG	B	27	-86.967	4.605	-82.670	1.00	55.25	B	C
ATOM	10050	NE	ARG	B	27	-86.563	3.255	-83.060	1.00	56.70	B	N
ATOM	10052	CZ	ARG	B	27	-86.253	2.871	-84.299	1.00	58.45	B	C
ATOM	10053	NH1	ARG	B	27	-86.289	3.722	-85.322	1.00	60.57	B	N
ATOM	10056	NH2	ARG	B	27	-85.901	1.609	-84.520	1.00	58.55	B	N
ATOM	10059	C	ARG	B	27	-91.090	7.432	-81.975	1.00	46.79	B	C
ATOM	10060	O	ARG	B	27	-90.395	8.448	-82.062	1.00	46.22	B	O
ATOM	10062	N	PRO	B	28	-92.371	7.447	-81.542	1.00	47.35	B	N
ATOM	10063	CA	PRO	B	28	-93.064	8.715	-81.232	1.00	47.41	B	C
ATOM	10065	CB	PRO	B	28	-94.502	8.264	-80.925	1.00	49.25	B	C
ATOM	10068	CG	PRO	B	28	-94.372	6.827	-80.484	1.00	49.15	B	C
ATOM	10071	CD	PRO	B	28	-93.236	6.269	-81.300	1.00	48.76	B	C
ATOM	10074	C	PRO	B	28	-92.467	9.461	-80.033	1.00	47.06	B	C
ATOM	10075	O	PRO	B	28	-92.647	10.676	-79.898	1.00	43.96	B	O
ATOM	10076	N	TYR	B	29	-91.753	8.723	-79.184	1.00	46.40	B	N
ATOM	10077	CA	TYR	B	29	-91.088	9.282	-78.001	1.00	44.27	B	C
ATOM	10079	CB	TYR	B	29	-90.760	8.166	-76.997	1.00	46.88	B	C
ATOM	10082	CG	TYR	B	29	-90.019	6.973	-77.591	1.00	48.48	B	C
ATOM	10083	CD1	TYR	B	29	-88.663	7.057	-77.934	1.00	49.49	B	C
ATOM	10085	CE1	TYR	B	29	-87.989	5.970	-78.484	1.00	46.95	B	C
ATOM	10087	CZ	TYR	B	29	-88.668	4.782	-78.687	1.00	46.58	B	C
ATOM	10088	OH	TYR	B	29	-88.010	3.704	-79.226	1.00	47.68	B	O
ATOM	10090	CE2	TYR	B	29	-90.008	4.670	-78.354	1.00	46.77	B	C
ATOM	10092	CD2	TYR	B	29	-90.674	5.759	-77.809	1.00	47.54	B	C
ATOM	10094	C	TYR	B	29	-89.814	10.075	-78.300	1.00	45.14	B	C
ATOM	10095	O	TYR	B	29	-89.290	10.744	-77.413	1.00	45.79	B	O
ATOM	10097	N	MET	B	30	-89.330	10.017	-79.538	1.00	42.89	B	N
ATOM	10098	CA	MET	B	30	-88.046	10.617	-79.888	1.00	43.21	B	C
ATOM	10100	CB	MET	B	30	-87.559	10.049	-81.226	1.00	42.69	B	C
ATOM	10103	CG	MET	B	30	-86.117	10.405	-81.568	1.00	43.55	B	C
ATOM	10106	SD	MET	B	30	-84.894	9.565	-80.533	1.00	40.52	B	S
ATOM	10107	CE	MET	B	30	-83.643	10.856	-80.480	1.00	37.23	B	C
ATOM	10111	C	MET	B	30	-88.103	12.145	-79.976	1.00	44.00	B	C
ATOM	10112	O	MET	B	30	-88.913	12.698	-80.719	1.00	51.80	B	O
ATOM	10114	N	ALA	B	31	-87.222	12.814	-79.233	1.00	42.85	B	N
ATOM	10115	CA	ALA	B	31	-87.137	14.277	-79.227	1.00	39.34	B	C
ATOM	10117	CB	ALA	B	31	-87.389	14.805	-77.833	1.00	34.87	B	C

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ATOM	10121	C	ALA	B	31	-85.774	14.750	-79.718	1.00	38.47	B	C
ATOM	10122	O	ALA	B	31	-84.766	14.049	-79.556	1.00	41.02	B	O
ATOM	10124	N	SER	B	32	-85.743	15.933	-80.326	1.00	39.32	B	N
ATOM	10125	CA	SER	B	32	-84.485	16.616	-80.617	1.00	40.35	B	C
ATOM	10127	CB	SER	B	32	-84.397	17.060	-82.081	1.00	41.78	B	C
ATOM	10130	OG	SER	B	32	-83.143	17.691	-82.329	1.00	44.67	B	O
ATOM	10132	C	SER	B	32	-84.334	17.823	-79.699	1.00	41.54	B	C
ATOM	10133	O	SER	B	32	-85.059	18.815	-79.818	1.00	43.57	B	O
ATOM	10135	N	VAL	B	33	-83.394	17.741	-78.773	1.00	43.38	B	N
ATOM	10136	CA	VAL	B	33	-83.100	18.882	-77.928	1.00	43.16	B	C
ATOM	10138	CB	VAL	B	33	-82.443	18.456	-76.631	1.00	38.83	B	C
ATOM	10140	CG1	VAL	B	33	-82.029	19.681	-75.840	1.00	40.64	B	C
ATOM	10144	CG2	VAL	B	33	-83.408	17.584	-75.850	1.00	37.04	B	C
ATOM	10148	C	VAL	B	33	-82.200	19.839	-78.720	1.00	44.86	B	C
ATOM	10149	O	VAL	B	33	-81.082	19.466	-79.131	1.00	39.83	B	O
ATOM	10151	N	GLN	B	34	-82.701	21.064	-78.928	1.00	48.41	B	N
ATOM	10152	CA	GLN	B	34	-82.047	22.050	-79.801	1.00	48.40	B	C
ATOM	10154	CB	GLN	B	34	-83.009	22.484	-80.918	1.00	50.36	B	C
ATOM	10157	CG	GLN	B	34	-82.985	21.515	-82.091	1.00	52.82	B	C
ATOM	10160	CD	GLN	B	34	-84.000	21.826	-83.174	1.00	53.90	B	C
ATOM	10161	OE1	GLN	B	34	-84.379	22.983	-83.391	1.00	58.91	B	O
ATOM	10162	NE2	GLN	B	34	-84.432	20.783	-83.884	1.00	54.63	B	N
ATOM	10165	C	GLN	B	34	-81.492	23.282	-79.075	1.00	45.48	B	C
ATOM	10166	O	GLN	B	34	-82.034	23.716	-78.056	1.00	41.29	B	O
ATOM	10168	N	LEU	B	35	-80.385	23.804	-79.607	1.00	48.46	B	N
ATOM	10169	CA	LEU	B	35	-79.781	25.065	-79.160	1.00	48.29	B	C
ATOM	10171	CB	LEU	B	35	-78.368	24.820	-78.616	1.00	49.90	B	C
ATOM	10174	CG	LEU	B	35	-77.504	26.038	-78.243	1.00	49.38	B	C
ATOM	10176	CD1	LEU	B	35	-77.975	26.665	-76.926	1.00	48.13	B	C
ATOM	10180	CD2	LEU	B	35	-76.025	25.661	-78.173	1.00	45.28	B	C
ATOM	10184	C	LEU	B	35	-79.704	26.019	-80.352	1.00	50.97	B	C
ATOM	10185	O	LEU	B	35	-78.909	25.807	-81.268	1.00	49.29	B	O
ATOM	10187	N	ASN	B	36	-80.529	27.065	-80.331	1.00	52.77	B	N
ATOM	10188	CA	ASN	B	36	-80.609	28.046	-81.425	1.00	52.86	B	C
ATOM	10190	CB	ASN	B	36	-79.304	28.861	-81.535	1.00	55.15	B	C
ATOM	10193	CG	ASN	B	36	-78.935	29.587	-80.231	1.00	56.84	B	C
ATOM	10194	OD1	ASN	B	36	-79.801	30.010	-79.461	1.00	57.57	B	O
ATOM	10195	ND2	ASN	B	36	-77.640	29.744	-79.996	1.00	56.03	B	N
ATOM	10198	C	ASN	B	36	-80.976	27.400	-82.776	1.00	53.97	B	C
ATOM	10199	O	ASN	B	36	-80.361	27.685	-83.812	1.00	52.73	B	O
ATOM	10201	N	GLY	B	37	-81.983	26.527	-82.754	1.00	54.32	B	N
ATOM	10202	CA	GLY	B	37	-82.469	25.864	-83.968	1.00	52.72	B	C
ATOM	10205	C	GLY	B	37	-81.535	24.816	-84.563	1.00	52.53	B	C
ATOM	10206	O	GLY	B	37	-81.720	24.410	-85.707	1.00	54.84	B	O
ATOM	10208	N	ALA	B	38	-80.545	24.367	-83.795	1.00	51.74	B	N
ATOM	10209	CA	ALA	B	38	-79.574	23.372	-84.255	1.00	50.90	B	C
ATOM	10211	CB	ALA	B	38	-78.168	23.984	-84.268	1.00	50.03	B	C
ATOM	10215	C	ALA	B	38	-79.612	22.161	-83.325	1.00	50.69	B	C
ATOM	10216	O	ALA	B	38	-79.582	22.319	-82.099	1.00	49.28	B	O
ATOM	10218	N	HIS	B	39	-79.692	20.959	-83.901	1.00	47.66	B	N
ATOM	10219	CA	HIS	B	39	-79.728	19.725	-83.107	1.00	45.72	B	C
ATOM	10221	CB	HIS	B	39	-79.743	18.486	-84.007	1.00	48.76	B	C
ATOM	10224	CG	HIS	B	39	-79.523	17.203	-83.265	1.00	51.31	B	C
ATOM	10225	ND1	HIS	B	39	-80.423	16.710	-82.342	1.00	52.79	B	N
ATOM	10227	CE1	HIS	B	39	-79.961	15.575	-81.845	1.00	52.42	B	C
ATOM	10229	NE2	HIS	B	39	-78.796	15.311	-82.414	1.00	51.75	B	N
ATOM	10231	CD2	HIS	B	39	-78.498	16.314	-83.304	1.00	52.11	B	C
ATOM	10233	C	HIS	B	39	-78.533	19.660	-82.172	1.00	42.52	B	C
ATOM	10234	O	HIS	B	39	-77.382	19.735	-82.611	1.00	42.94	B	O
ATOM	10236	N	LEU	B	40	-78.809	19.527	-80.878	1.00	42.05	B	N
ATOM	10237	CA	LEU	B	40	-77.756	19.422	-79.879	1.00	42.81	B	C
ATOM	10239	CB	LEU	B	40	-78.004	20.414	-78.747	1.00	42.75	B	C
ATOM	10242	CG	LEU	B	40	-76.780	20.725	-77.890	1.00	45.06	B	C
ATOM	10244	CD1	LEU	B	40	-75.822	21.649	-78.644	1.00	46.76	B	C
ATOM	10248	CD2	LEU	B	40	-77.211	21.337	-76.567	1.00	45.00	B	C
ATOM	10252	C	LEU	B	40	-77.685	18.007	-79.316	1.00	40.85	B	C
ATOM	10253	O	LEU	B	40	-76.605	17.397	-79.266	1.00	38.41	B	O
ATOM	10255	N	CYS	B	41	-78.837	17.493	-78.885	1.00	40.75	B	N

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ATOM	10256	CA	CYS	B	41	-78.904	16.201	-78.200	1.00	41.79	B	C
ATOM	10258	CB	CYS	B	41	-78.809	16.410	-76.699	1.00	47.25	B	C
ATOM	10261	SG	CYS	B	41	-77.158	16.739	-76.149	1.00	57.13	B	S
ATOM	10263	C	CYS	B	41	-80.188	15.462	-78.481	1.00	39.20	B	C
ATOM	10264	O	CYS	B	41	-81.196	16.059	-78.878	1.00	36.48	B	O
ATOM	10266	N	GLY	B	42	-80.137	14.152	-78.271	1.00	37.42	B	N
ATOM	10267	CA	GLY	B	42	-81.326	13.316	-78.292	1.00	36.78	B	C
ATOM	10270	C	GLY	B	42	-82.087	13.500	-76.994	1.00	36.21	B	C
ATOM	10271	O	GLY	B	42	-81.603	14.120	-76.050	1.00	36.19	B	O
ATOM	10273	N	GLY	B	43	-83.294	12.961	-76.962	1.00	33.76	B	N
ATOM	10274	CA	GLY	B	43	-84.178	13.103	-75.814	1.00	36.52	B	C
ATOM	10277	C	GLY	B	43	-85.320	12.117	-75.937	1.00	37.04	B	C
ATOM	10278	O	GLY	B	43	-85.591	11.594	-77.035	1.00	33.64	B	O
ATOM	10280	N	VAL	B	44	-85.982	11.844	-74.819	1.00	40.39	B	N
ATOM	10281	CA	VAL	B	44	-87.075	10.871	-74.813	1.00	42.74	B	C
ATOM	10283	CB	VAL	B	44	-86.616	9.453	-74.304	1.00	43.97	B	C
ATOM	10285	CG1	VAL	B	44	-85.746	9.550	-73.070	1.00	46.45	B	C
ATOM	10289	CG2	VAL	B	44	-87.813	8.557	-74.028	1.00	43.73	B	C
ATOM	10293	C	VAL	B	44	-88.249	11.420	-74.010	1.00	43.45	B	C
ATOM	10294	O	VAL	B	44	-88.136	11.654	-72.801	1.00	45.29	B	O
ATOM	10296	N	LEU	B	45	-89.357	11.668	-74.706	1.00	44.44	B	N
ATOM	10297	CA	LEU	B	45	-90.601	12.082	-74.059	1.00	44.85	B	C
ATOM	10299	CB	LEU	B	45	-91.713	12.333	-75.090	1.00	45.62	B	C
ATOM	10302	CG	LEU	B	45	-92.981	13.025	-74.570	1.00	45.74	B	C
ATOM	10304	CD1	LEU	B	45	-92.812	14.537	-74.598	1.00	45.10	B	C
ATOM	10308	CD2	LEU	B	45	-94.217	12.623	-75.368	1.00	43.32	B	C
ATOM	10312	C	LEU	B	45	-90.992	10.950	-73.114	1.00	44.24	B	C
ATOM	10313	O	LEU	B	45	-91.144	9.806	-73.545	1.00	43.68	B	O
ATOM	10315	N	VAL	B	46	-91.075	11.268	-71.824	1.00	46.07	B	N
ATOM	10316	CA	VAL	B	46	-91.443	10.294	-70.787	1.00	47.91	B	C
ATOM	10318	CB	VAL	B	46	-90.314	10.129	-69.707	1.00	45.43	B	C
ATOM	10320	CG1	VAL	B	46	-89.095	9.434	-70.309	1.00	40.42	B	C
ATOM	10324	CG2	VAL	B	46	-89.926	11.470	-69.092	1.00	43.89	B	C
ATOM	10328	C	VAL	B	46	-92.775	10.637	-70.115	1.00	51.26	B	C
ATOM	10329	O	VAL	B	46	-93.393	9.783	-69.479	1.00	50.88	B	O
ATOM	10331	N	ALA	B	47	-93.200	11.892	-70.243	1.00	52.58	B	N
ATOM	10332	CA	ALA	B	47	-94.534	12.319	-69.825	1.00	52.29	B	C
ATOM	10334	CB	ALA	B	47	-94.502	12.914	-68.407	1.00	52.96	B	C
ATOM	10338	C	ALA	B	47	-95.073	13.328	-70.834	1.00	55.08	B	C
ATOM	10339	O	ALA	B	47	-94.381	13.710	-71.780	1.00	53.02	B	O
ATOM	10341	N	GLU	B	48	-96.311	13.757	-70.618	1.00	58.78	B	N
ATOM	10342	CA	GLU	B	48	-97.014	14.639	-71.552	1.00	57.45	B	C
ATOM	10344	CB	GLU	B	48	-98.443	14.896	-71.054	1.00	60.48	B	C
ATOM	10347	CG	GLU	B	48	-99.492	15.106	-72.153	1.00	60.99	B	C
ATOM	10350	CD	GLU	B	48	-100.913	15.222	-71.593	1.00	62.65	B	C
ATOM	10351	OE1	GLU	B	48	-101.840	15.568	-72.356	1.00	67.63	B	O
ATOM	10352	OE2	GLU	B	48	-101.115	14.958	-70.388	1.00	63.24	B	O
ATOM	10353	C	GLU	B	48	-96.266	15.960	-71.794	1.00	53.57	B	C
ATOM	10354	O	GLU	B	48	-96.218	16.436	-72.928	1.00	49.62	B	O
ATOM	10356	N	GLN	B	49	-95.668	16.541	-70.754	1.00	53.32	B	N
ATOM	10357	CA	GLN	B	49	-94.899	17.778	-70.937	1.00	53.42	B	C
ATOM	10359	CB	GLN	B	49	-95.657	18.989	-70.363	1.00	54.59	B	C
ATOM	10362	CG	GLN	B	49	-95.779	19.089	-68.850	1.00	56.37	B	C
ATOM	10365	CD	GLN	B	49	-96.721	20.226	-68.427	1.00	55.46	B	C
ATOM	10366	OE1	GLN	B	49	-97.263	20.954	-69.268	1.00	52.57	B	O
ATOM	10367	NE2	GLN	B	49	-96.909	20.380	-67.121	1.00	55.21	B	N
ATOM	10370	C	GLN	B	49	-93.472	17.711	-70.413	1.00	49.44	B	C
ATOM	10371	O	GLN	B	49	-92.874	18.752	-70.150	1.00	44.95	B	O
ATOM	10373	N	TRP	B	50	-92.923	16.496	-70.312	1.00	49.78	B	N
ATOM	10374	CA	TRP	B	50	-91.547	16.268	-69.810	1.00	49.37	B	C
ATOM	10376	CB	TRP	B	50	-91.563	15.629	-68.414	1.00	52.02	B	C
ATOM	10379	CG	TRP	B	50	-91.925	16.565	-67.298	1.00	53.16	B	C
ATOM	10380	CD1	TRP	B	50	-93.166	16.751	-66.758	1.00	52.93	B	C
ATOM	10382	NE1	TRP	B	50	-93.109	17.685	-65.755	1.00	53.46	B	N
ATOM	10384	CE2	TRP	B	50	-91.816	18.124	-65.623	1.00	54.14	B	C
ATOM	10385	CD2	TRP	B	50	-91.039	17.438	-66.581	1.00	53.45	B	C
ATOM	10386	CE3	TRP	B	50	-89.667	17.713	-66.658	1.00	53.18	B	C
ATOM	10388	CZ3	TRP	B	50	-89.121	18.649	-65.781	1.00	52.84	B	C

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ATOM	10390	CH2	TRP	B	50	-89.918	19.310	-64.837	1.00	52.47	B	C
ATOM	10392	CZ2	TRP	B	50	-91.263	19.065	-64.742	1.00	53.06	B	C
ATOM	10394	C	TRP	B	50	-90.724	15.367	-70.736	1.00	44.89	B	C
ATOM	10395	O	TRP	B	50	-91.117	14.241	-71.022	1.00	42.00	B	O
ATOM	10397	N	VAL	B	51	-89.562	15.861	-71.158	1.00	44.99	B	N
ATOM	10398	CA	VAL	B	51	-88.601	15.077	-71.945	1.00	45.43	B	C
ATOM	10400	CB	VAL	B	51	-88.218	15.815	-73.241	1.00	48.19	B	C
ATOM	10402	CG1	VAL	B	51	-86.896	15.268	-73.805	1.00	49.93	B	C
ATOM	10406	CG2	VAL	B	51	-89.352	15.710	-74.261	1.00	47.33	B	C
ATOM	10410	C	VAL	B	51	-87.330	14.763	-71.130	1.00	42.56	B	C
ATOM	10411	O	VAL	B	51	-86.783	15.642	-70.475	1.00	44.96	B	O
ATOM	10413	N	LEU	B	52	-86.874	13.510	-71.175	1.00	40.64	B	N
ATOM	10414	CA	LEU	B	52	-85.622	13.106	-70.512	1.00	39.74	B	C
ATOM	10416	CB	LEU	B	52	-85.716	11.676	-69.946	1.00	40.61	B	C
ATOM	10419	CG	LEU	B	52	-84.542	11.139	-69.105	1.00	38.29	B	C
ATOM	10421	CD1	LEU	B	52	-84.124	12.113	-68.024	1.00	40.09	B	C
ATOM	10425	CD2	LEU	B	52	-84.880	9.808	-68.470	1.00	34.66	B	C
ATOM	10429	C	LEU	B	52	-84.460	13.192	-71.494	1.00	39.41	B	C
ATOM	10430	O	LEU	B	52	-84.582	12.771	-72.644	1.00	38.70	B	O
ATOM	10432	N	SER	B	53	-83.349	13.758	-71.040	1.00	38.98	B	N
ATOM	10433	CA	SER	B	53	-82.136	13.871	-71.851	1.00	36.98	B	C
ATOM	10435	CB	SER	B	53	-82.148	15.190	-72.643	1.00	38.97	B	C
ATOM	10438	OG	SER	B	53	-81.188	15.188	-73.693	1.00	38.82	B	O
ATOM	10440	C	SER	B	53	-80.929	13.761	-70.915	1.00	33.00	B	C
ATOM	10441	O	SER	B	53	-81.052	13.221	-69.813	1.00	28.94	B	O
ATOM	10443	N	ALA	B	54	-79.775	14.259	-71.352	1.00	36.11	B	N
ATOM	10444	CA	ALA	B	54	-78.562	14.227	-70.552	1.00	36.23	B	C
ATOM	10446	CB	ALA	B	54	-77.418	13.636	-71.361	1.00	38.05	B	C
ATOM	10450	C	ALA	B	54	-78.207	15.630	-70.062	1.00	36.56	B	C
ATOM	10451	O	ALA	B	54	-78.401	16.602	-70.778	1.00	36.22	B	O
ATOM	10453	N	ALA	B	55	-77.666	15.710	-68.847	1.00	40.47	B	N
ATOM	10454	CA	ALA	B	55	-77.331	16.975	-68.191	1.00	42.13	B	C
ATOM	10456	CB	ALA	B	55	-76.909	16.715	-66.744	1.00	37.66	B	C
ATOM	10460	C	ALA	B	55	-76.250	17.781	-68.915	1.00	44.24	B	C
ATOM	10461	O	ALA	B	55	-76.427	18.967	-69.167	1.00	47.85	B	O
ATOM	10463	N	HIS	B	56	-75.135	17.149	-69.265	1.00	47.71	B	N
ATOM	10464	CA	HIS	B	56	-74.037	17.880	-69.918	1.00	52.79	B	C
ATOM	10466	CB	HIS	B	56	-72.716	17.100	-69.862	1.00	63.14	B	C
ATOM	10469	CG	HIS	B	56	-72.805	15.713	-70.403	1.00	69.54	B	C
ATOM	10470	ND1	HIS	B	56	-73.581	15.390	-71.497	1.00	72.32	B	N
ATOM	10472	CE1	HIS	B	56	-73.462	14.099	-71.754	1.00	72.69	B	C
ATOM	10474	NE2	HIS	B	56	-72.627	13.575	-70.873	1.00	75.40	B	N
ATOM	10476	CD2	HIS	B	56	-72.202	14.563	-70.016	1.00	73.79	B	C
ATOM	10478	C	HIS	B	56	-74.345	18.338	-71.356	1.00	51.53	B	C
ATOM	10479	O	HIS	B	56	-73.509	18.981	-71.999	1.00	47.24	B	O
ATOM	10481	N	CYS	B	57	-75.535	18.013	-71.856	1.00	52.60	B	N
ATOM	10482	CA	CYS	B	57	-76.032	18.602	-73.096	1.00	57.47	B	C
ATOM	10484	CB	CYS	B	57	-77.391	18.015	-73.477	1.00	57.83	B	C
ATOM	10487	SG	CYS	B	57	-77.259	16.377	-74.157	1.00	58.53	B	S
ATOM	10489	C	CYS	B	57	-76.185	20.108	-72.976	1.00	59.71	B	C
ATOM	10490	O	CYS	B	57	-76.081	20.826	-73.970	1.00	59.61	B	O
ATOM	10492	N	LEU	B	58	-76.456	20.580	-71.763	1.00	63.29	B	N
ATOM	10493	CA	LEU	B	58	-76.716	21.998	-71.539	1.00	66.80	B	C
ATOM	10495	CB	LEU	B	58	-77.932	22.164	-70.613	1.00	67.56	B	C
ATOM	10498	CG	LEU	B	58	-79.276	22.321	-71.345	1.00	66.67	B	C
ATOM	10500	CD1	LEU	B	58	-79.515	21.208	-72.360	1.00	65.43	B	C
ATOM	10504	CD2	LEU	B	58	-80.429	22.395	-70.345	1.00	67.49	B	C
ATOM	10508	C	LEU	B	58	-75.503	22.781	-71.013	1.00	70.20	B	C
ATOM	10509	O	LEU	B	58	-75.606	23.986	-70.773	1.00	69.71	B	O
ATOM	10511	N	GLU	B	59	-74.351	22.122	-70.884	1.00	75.48	B	N
ATOM	10512	CA	GLU	B	59	-73.207	22.706	-70.153	1.00	79.97	B	C
ATOM	10514	CB	GLU	B	59	-72.061	21.694	-70.005	1.00	80.07	B	C
ATOM	10517	CG	GLU	B	59	-72.004	21.065	-68.629	1.00	81.66	B	C
ATOM	10520	CD	GLU	B	59	-71.054	19.889	-68.547	1.00	82.00	B	C
ATOM	10521	OE1	GLU	B	59	-70.073	19.837	-69.325	1.00	82.21	B	O
ATOM	10522	OE2	GLU	B	59	-71.298	19.012	-67.692	1.00	82.80	B	O
ATOM	10523	C	GLU	B	59	-72.659	24.025	-70.712	1.00	84.72	B	C
ATOM	10524	O	GLU	B	59	-72.497	24.990	-69.961	1.00	86.66	B	O

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ATOM	10526	N	ASP	B	60	-72.361	24.070	-72.008	1.00	87.60	B	N
ATOM	10527	CA	ASP	B	60	-71.862	25.309	-72.630	1.00	87.93	B	C
ATOM	10529	CB	ASP	B	60	-70.439	25.150	-73.216	1.00	90.38	B	C
ATOM	10532	CG	ASP	B	60	-70.191	23.788	-73.869	1.00	91.47	B	C
ATOM	10533	OD1	ASP	B	60	-71.125	22.962	-73.968	1.00	92.21	B	O
ATOM	10534	OD2	ASP	B	60	-69.035	23.546	-74.281	1.00	91.46	B	O
ATOM	10535	C	ASP	B	60	-72.867	25.853	-73.652	1.00	87.61	B	C
ATOM	10536	O	ASP	B	60	-72.519	26.142	-74.797	1.00	86.75	B	O
ATOM	10538	N	ALA	B	61	-74.118	25.998	-73.214	1.00	88.06	B	N
ATOM	10539	CA	ALA	B	61	-75.204	26.508	-74.070	1.00	89.30	B	C
ATOM	10541	CB	ALA	B	61	-76.425	25.601	-73.977	1.00	89.72	B	C
ATOM	10545	C	ALA	B	61	-75.551	27.929	-73.625	1.00	91.55	B	C
ATOM	10546	O	ALA	B	61	-75.618	28.868	-74.430	1.00	90.83	B	O
ATOM	10548	N	ALA	B	62	-75.801	28.007	-72.304	1.00	93.94	B	N
ATOM	10549	CA	ALA	B	62	-75.671	29.227	-71.471	1.00	94.09	B	C
ATOM	10551	CB	ALA	B	62	-74.145	29.570	-71.242	1.00	93.99	B	C
ATOM	10555	C	ALA	B	62	-76.426	30.448	-71.976	1.00	93.47	B	C
ATOM	10556	O	ALA	B	62	-77.502	30.768	-71.472	1.00	92.48	B	O
ATOM	10558	N	ASP	B	63	-75.852	31.138	-72.954	1.00	93.70	B	N
ATOM	10559	CA	ASP	B	63	-76.489	32.317	-73.514	1.00	93.17	B	C
ATOM	10561	CB	ASP	B	63	-75.493	33.485	-73.605	1.00	93.55	B	C
ATOM	10564	CG	ASP	B	63	-76.166	34.846	-73.451	1.00	93.56	B	C
ATOM	10565	OD1	ASP	B	63	-77.141	35.123	-74.186	1.00	92.99	B	O
ATOM	10566	OD2	ASP	B	63	-75.715	35.640	-72.594	1.00	91.79	B	O
ATOM	10567	C	ASP	B	63	-77.068	31.914	-74.870	1.00	93.18	B	C
ATOM	10568	O	ASP	B	63	-76.612	32.365	-75.924	1.00	94.31	B	O
ATOM	10570	N	GLY	B	64	-78.068	31.036	-74.824	1.00	89.93	B	N
ATOM	10571	CA	GLY	B	64	-78.677	30.495	-76.035	1.00	85.63	B	C
ATOM	10574	C	GLY	B	64	-80.085	29.972	-75.834	1.00	81.26	B	C
ATOM	10575	O	GLY	B	64	-80.497	29.657	-74.716	1.00	81.08	B	O
ATOM	10577	N	LYS	B	65	-80.807	29.867	-76.945	1.00	77.68	B	N
ATOM	10578	CA	LYS	B	65	-82.216	29.478	-76.961	1.00	77.23	B	C
ATOM	10580	CB	LYS	B	65	-82.885	30.073	-78.205	1.00	76.65	B	C
ATOM	10583	CG	LYS	B	65	-84.372	29.785	-78.359	1.00	77.19	B	C
ATOM	10586	CD	LYS	B	65	-85.201	31.011	-78.046	1.00	76.86	B	C
ATOM	10589	CE	LYS	B	65	-86.670	30.721	-78.172	1.00	76.82	B	C
ATOM	10592	NZ	LYS	B	65	-87.471	31.786	-77.514	1.00	77.36	B	N
ATOM	10596	C	LYS	B	65	-82.342	27.962	-77.005	1.00	76.03	B	C
ATOM	10597	O	LYS	B	65	-82.005	27.346	-78.014	1.00	76.97	B	O
ATOM	10599	N	VAL	B	66	-82.838	27.365	-75.922	1.00	73.30	B	N
ATOM	10600	CA	VAL	B	66	-82.993	25.912	-75.851	1.00	70.60	B	C
ATOM	10602	CB	VAL	B	66	-82.549	25.354	-74.474	1.00	70.48	B	C
ATOM	10604	CG1	VAL	B	66	-82.499	23.826	-74.510	1.00	69.36	B	C
ATOM	10608	CG2	VAL	B	66	-81.188	25.932	-74.068	1.00	68.20	B	C
ATOM	10612	C	VAL	B	66	-84.442	25.504	-76.133	1.00	68.74	B	C
ATOM	10613	O	VAL	B	66	-85.364	26.008	-75.500	1.00	69.27	B	O
ATOM	10615	N	GLN	B	67	-84.619	24.583	-77.083	1.00	64.72	B	N
ATOM	10616	CA	GLN	B	67	-85.940	24.090	-77.496	1.00	61.06	B	C
ATOM	10618	CB	GLN	B	67	-86.358	24.750	-78.816	1.00	62.47	B	C
ATOM	10621	CG	GLN	B	67	-86.316	26.274	-78.820	1.00	62.64	B	C
ATOM	10624	CD	GLN	B	67	-86.944	26.853	-80.075	1.00	63.74	B	C
ATOM	10625	OE1	GLN	B	67	-86.310	26.912	-81.137	1.00	63.70	B	O
ATOM	10626	NE2	GLN	B	67	-88.206	27.279	-79.961	1.00	65.31	B	N
ATOM	10629	C	GLN	B	67	-85.948	22.569	-77.691	1.00	57.56	B	C
ATOM	10630	O	GLN	B	67	-84.899	21.961	-77.932	1.00	55.58	B	O
ATOM	10632	N	VAL	B	68	-87.134	21.963	-77.597	1.00	54.63	B	N
ATOM	10633	CA	VAL	B	68	-87.313	20.523	-77.855	1.00	51.29	B	C
ATOM	10635	CB	VAL	B	68	-87.897	19.779	-76.620	1.00	50.83	B	C
ATOM	10637	CG1	VAL	B	68	-88.257	18.335	-76.978	1.00	50.08	B	C
ATOM	10641	CG2	VAL	B	68	-86.924	19.832	-75.443	1.00	45.22	B	C
ATOM	10645	C	VAL	B	68	-88.263	20.313	-79.024	1.00	48.09	B	C
ATOM	10646	O	VAL	B	68	-89.373	20.821	-79.009	1.00	47.07	B	O
ATOM	10648	N	LEU	B	69	-87.826	19.549	-80.018	1.00	45.01	B	N
ATOM	10649	CA	LEU	B	69	-88.612	19.302	-81.228	1.00	44.58	B	C
ATOM	10651	CB	LEU	B	69	-87.730	19.529	-82.464	1.00	46.79	B	C
ATOM	10654	CG	LEU	B	69	-88.305	19.230	-83.846	1.00	44.96	B	C
ATOM	10656	CD1	LEU	B	69	-89.453	20.182	-84.153	1.00	45.17	B	C
ATOM	10660	CD2	LEU	B	69	-87.197	19.339	-84.891	1.00	45.01	B	C

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ATOM	10664	C	LEU	B	69	-89.189	17.877	-81.238	1.00	44.66	B	C
ATOM	10665	O	LEU	B	69	-88.447	16.887	-81.370	1.00	41.12	B	O
ATOM	10667	N	LEU	B	70	-90.511	17.785	-81.122	1.00	44.63	B	N
ATOM	10668	CA	LEU	B	70	-91.223	16.500	-81.126	1.00	44.29	B	C
ATOM	10670	CB	LEU	B	70	-92.319	16.509	-80.053	1.00	45.97	B	C
ATOM	10673	CG	LEU	B	70	-91.874	16.094	-78.647	1.00	46.22	B	C
ATOM	10675	CD1	LEU	B	70	-92.427	17.037	-77.576	1.00	43.62	B	C
ATOM	10679	CD2	LEU	B	70	-92.269	14.636	-78.373	1.00	45.99	B	C
ATOM	10683	C	LEU	B	70	-91.839	16.157	-82.494	1.00	44.84	B	C
ATOM	10684	O	LEU	B	70	-91.997	17.032	-83.358	1.00	44.19	B	O
ATOM	10686	N	GLY	B	71	-92.170	14.873	-82.671	1.00	45.19	B	N
ATOM	10687	CA	GLY	B	71	-92.788	14.351	-83.892	1.00	43.99	B	C
ATOM	10690	C	GLY	B	71	-91.944	14.459	-85.151	1.00	47.61	B	C
ATOM	10691	O	GLY	B	71	-92.466	14.357	-86.266	1.00	52.66	B	O
ATOM	10693	N	ALA	B	72	-90.640	14.657	-84.994	1.00	48.99	B	N
ATOM	10694	CA	ALA	B	72	-89.775	14.884	-86.150	1.00	45.51	B	C
ATOM	10696	CB	ALA	B	72	-88.653	15.884	-85.817	1.00	42.58	B	C
ATOM	10700	C	ALA	B	72	-89.197	13.583	-86.685	1.00	43.65	B	C
ATOM	10701	O	ALA	B	72	-89.023	12.598	-85.956	1.00	43.64	B	O
ATOM	10703	N	HIS	B	73	-88.935	13.582	-87.982	1.00	42.84	B	N
ATOM	10704	CA	HIS	B	73	-88.101	12.565	-88.601	1.00	44.68	B	C
ATOM	10706	CB	HIS	B	73	-88.895	11.735	-89.610	1.00	47.97	B	C
ATOM	10709	CG	HIS	B	73	-88.151	10.540	-90.115	1.00	50.40	B	C
ATOM	10710	ND1	HIS	B	73	-87.449	9.701	-89.279	1.00	52.16	B	N
ATOM	10712	CE1	HIS	B	73	-86.890	8.740	-89.992	1.00	51.61	B	C
ATOM	10714	NE2	HIS	B	73	-87.209	8.920	-91.260	1.00	52.75	B	N
ATOM	10716	CD2	HIS	B	73	-88.003	10.037	-91.364	1.00	54.54	B	C
ATOM	10718	C	HIS	B	73	-86.922	13.281	-89.262	1.00	44.82	B	C
ATOM	10719	O	HIS	B	73	-85.760	13.001	-88.944	1.00	41.94	B	O
ATOM	10721	N	SER	B	74	-87.232	14.213	-90.165	1.00	44.47	B	N
ATOM	10722	CA	SER	B	74	-86.231	15.093	-90.773	1.00	43.35	B	C
ATOM	10724	CB	SER	B	74	-86.654	15.478	-92.199	1.00	47.59	B	C
ATOM	10727	OG	SER	B	74	-85.695	16.321	-92.824	1.00	49.46	B	O
ATOM	10729	C	SER	B	74	-86.083	16.354	-89.926	1.00	43.36	B	C
ATOM	10730	O	SER	B	74	-87.073	16.904	-89.446	1.00	43.42	B	O
ATOM	10732	N	LEU	B	75	-84.848	16.814	-89.745	1.00	44.98	B	N
ATOM	10733	CA	LEU	B	75	-84.594	18.047	-88.993	1.00	45.22	B	C
ATOM	10735	CB	LEU	B	75	-83.130	18.126	-88.549	1.00	47.78	B	C
ATOM	10738	CG	LEU	B	75	-82.804	17.495	-87.194	1.00	46.82	B	C
ATOM	10740	CD1	LEU	B	75	-81.301	17.323	-87.040	1.00	46.65	B	C
ATOM	10744	CD2	LEU	B	75	-83.381	18.338	-86.075	1.00	46.00	B	C
ATOM	10748	C	LEU	B	75	-84.953	19.312	-89.779	1.00	46.72	B	C
ATOM	10749	O	LEU	B	75	-85.489	20.263	-89.206	1.00	47.71	B	O
ATOM	10751	N	SER	B	76	-84.659	19.317	-91.081	1.00	47.72	B	N
ATOM	10752	CA	SER	B	76	-84.805	20.515	-91.923	1.00	47.68	B	C
ATOM	10754	CB	SER	B	76	-83.716	20.545	-92.998	1.00	49.41	B	C
ATOM	10757	OG	SER	B	76	-83.799	19.401	-93.832	1.00	50.45	B	O
ATOM	10759	C	SER	B	76	-86.168	20.602	-92.604	1.00	49.40	B	C
ATOM	10760	O	SER	B	76	-86.724	21.696	-92.770	1.00	45.92	B	O
ATOM	10762	N	GLN	B	77	-86.705	19.451	-93.006	1.00	52.99	B	N
ATOM	10763	CA	GLN	B	77	-87.902	19.430	-93.852	1.00	53.19	B	C
ATOM	10765	CB	GLN	B	77	-87.980	18.145	-94.692	1.00	57.76	B	C
ATOM	10768	CG	GLN	B	77	-87.907	18.370	-96.202	1.00	61.99	B	C
ATOM	10771	CD	GLN	B	77	-86.522	18.768	-96.685	1.00	64.19	B	C
ATOM	10772	OE1	GLN	B	77	-86.060	18.279	-97.713	1.00	65.90	B	O
ATOM	10773	NE2	GLN	B	77	-85.854	19.657	-95.950	1.00	63.59	B	N
ATOM	10776	C	GLN	B	77	-89.173	19.582	-93.028	1.00	53.90	B	C
ATOM	10777	O	GLN	B	77	-89.234	19.111	-91.887	1.00	50.34	B	O
ATOM	10779	N	PRO	B	78	-90.198	20.242	-93.610	1.00	56.71	B	N
ATOM	10780	CA	PRO	B	78	-91.476	20.345	-92.918	1.00	56.73	B	C
ATOM	10782	CB	PRO	B	78	-92.244	21.397	-93.733	1.00	59.59	B	C
ATOM	10785	CG	PRO	B	78	-91.652	21.336	-95.104	1.00	59.70	B	C
ATOM	10788	CD	PRO	B	78	-90.217	20.920	-94.926	1.00	58.18	B	C
ATOM	10791	C	PRO	B	78	-92.230	19.017	-92.909	1.00	55.23	B	C
ATOM	10792	O	PRO	B	78	-92.250	18.295	-93.912	1.00	50.24	B	O
ATOM	10793	N	GLU	B	79	-92.829	18.712	-91.760	1.00	55.38	B	N
ATOM	10794	CA	GLU	B	79	-93.652	17.520	-91.575	1.00	55.00	B	C
ATOM	10796	CB	GLU	B	79	-92.838	16.426	-90.890	1.00	57.94	B	C

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ATOM	10799	CG	GLU	B	79	-91.471	16.189	-91.511	1.00	58.05	B	C
ATOM	10802	CD	GLU	B	79	-90.740	15.021	-90.881	1.00	59.64	B	C
ATOM	10803	OE1	GLU	B	79	-91.110	14.624	-89.746	1.00	59.59	B	O
ATOM	10804	OE2	GLU	B	79	-89.788	14.516	-91.525	1.00	59.88	B	O
ATOM	10805	C	GLU	B	79	-94.858	17.905	-90.711	1.00	56.30	B	C
ATOM	10806	O	GLU	B	79	-94.756	18.820	-89.883	1.00	55.14	B	O
ATOM	10808	N	PRO	B	80	-95.999	17.207	-90.886	1.00	56.51	B	N
ATOM	10809	CA	PRO	B	80	-97.227	17.616	-90.180	1.00	55.47	B	C
ATOM	10811	CB	PRO	B	80	-98.321	16.729	-90.799	1.00	55.76	B	C
ATOM	10814	CG	PRO	B	80	-97.618	15.578	-91.411	1.00	56.15	B	C
ATOM	10817	CD	PRO	B	80	-96.197	15.995	-91.705	1.00	57.02	B	C
ATOM	10820	C	PRO	B	80	-97.129	17.417	-88.662	1.00	54.97	B	C
ATOM	10821	O	PRO	B	80	-97.624	18.251	-87.903	1.00	53.17	B	O
ATOM	10822	N	SER	B	81	-96.483	16.330	-88.239	1.00	55.10	B	N
ATOM	10823	CA	SER	B	81	-96.278	16.027	-86.806	1.00	52.08	B	C
ATOM	10825	CB	SER	B	81	-95.875	14.555	-86.619	1.00	52.18	B	C
ATOM	10828	OG	SER	B	81	-95.329	14.015	-87.823	1.00	52.84	B	O
ATOM	10830	C	SER	B	81	-95.242	16.938	-86.131	1.00	50.19	B	C
ATOM	10831	O	SER	B	81	-95.315	17.189	-84.925	1.00	47.91	B	O
ATOM	10833	N	LYS	B	82	-94.296	17.430	-86.930	1.00	48.85	B	N
ATOM	10834	CA	LYS	B	82	-93.168	18.238	-86.461	1.00	48.69	B	C
ATOM	10836	CB	LYS	B	82	-92.269	18.614	-87.666	1.00	49.45	B	C
ATOM	10839	CG	LYS	B	82	-90.777	18.351	-87.472	1.00	48.84	B	C
ATOM	10842	CD	LYS	B	82	-89.951	18.678	-88.731	1.00	48.36	B	C
ATOM	10845	CE	LYS	B	82	-89.259	20.053	-88.636	1.00	49.09	B	C
ATOM	10848	NZ	LYS	B	82	-88.200	20.270	-89.680	1.00	47.71	B	N
ATOM	10852	C	LYS	B	82	-93.612	19.515	-85.748	1.00	50.32	B	C
ATOM	10853	O	LYS	B	82	-94.167	20.413	-86.378	1.00	56.26	B	O
ATOM	10855	N	ARG	B	83	-93.367	19.593	-84.443	1.00	51.92	B	N
ATOM	10856	CA	ARG	B	83	-93.568	20.837	-83.701	1.00	51.51	B	C
ATOM	10858	CB	ARG	B	83	-94.888	20.809	-82.929	1.00	55.50	B	C
ATOM	10861	CG	ARG	B	83	-95.176	22.130	-82.226	1.00	56.36	B	C
ATOM	10864	CD	ARG	B	83	-96.571	22.221	-81.634	1.00	56.39	B	C
ATOM	10867	NE	ARG	B	83	-96.568	23.192	-80.541	1.00	58.22	B	N
ATOM	10869	CZ	ARG	B	83	-97.559	23.378	-79.671	1.00	59.21	B	C
ATOM	10870	NH1	ARG	B	83	-98.685	22.666	-79.749	1.00	57.85	B	N
ATOM	10873	NH2	ARG	B	83	-97.416	24.291	-78.710	1.00	58.24	B	N
ATOM	10876	C	ARG	B	83	-92.389	21.148	-82.766	1.00	50.83	B	C
ATOM	10877	O	ARG	B	83	-91.919	20.274	-82.028	1.00	47.03	B	O
ATOM	10879	N	LEU	B	84	-91.925	22.399	-82.825	1.00	50.29	B	N
ATOM	10880	CA	LEU	B	84	-90.818	22.907	-82.004	1.00	51.40	B	C
ATOM	10882	CB	LEU	B	84	-90.004	23.917	-82.834	1.00	52.15	B	C
ATOM	10885	CG	LEU	B	84	-88.729	24.584	-82.294	1.00	51.96	B	C
ATOM	10887	CD1	LEU	B	84	-87.567	23.596	-82.161	1.00	48.49	B	C
ATOM	10891	CD2	LEU	B	84	-88.342	25.746	-83.220	1.00	51.60	B	C
ATOM	10895	C	LEU	B	84	-91.380	23.573	-80.743	1.00	52.61	B	C
ATOM	10896	O	LEU	B	84	-92.144	24.534	-80.843	1.00	52.90	B	O
ATOM	10898	N	TYR	B	85	-91.008	23.060	-79.568	1.00	52.62	B	N
ATOM	10899	CA	TYR	B	85	-91.532	23.559	-78.280	1.00	53.35	B	C
ATOM	10901	CB	TYR	B	85	-92.008	22.405	-77.389	1.00	52.50	B	C
ATOM	10904	CG	TYR	B	85	-93.171	21.602	-77.927	1.00	51.32	B	C
ATOM	10905	CD1	TYR	B	85	-94.395	21.580	-77.261	1.00	52.24	B	C
ATOM	10907	CE1	TYR	B	85	-95.462	20.831	-77.740	1.00	52.75	B	C
ATOM	10909	CZ	TYR	B	85	-95.309	20.095	-78.903	1.00	53.14	B	C
ATOM	10910	OH	TYR	B	85	-96.361	19.354	-79.401	1.00	52.53	B	O
ATOM	10912	CE2	TYR	B	85	-94.100	20.101	-79.575	1.00	52.39	B	C
ATOM	10914	CD2	TYR	B	85	-93.042	20.849	-79.085	1.00	50.34	B	C
ATOM	10916	C	TYR	B	85	-90.465	24.326	-77.515	1.00	55.13	B	C
ATOM	10917	O	TYR	B	85	-89.303	23.910	-77.481	1.00	57.61	B	O
ATOM	10919	N	ASP	B	86	-90.861	25.428	-76.884	1.00	57.16	B	N
ATOM	10920	CA	ASP	B	86	-89.970	26.145	-75.965	1.00	58.44	B	C
ATOM	10922	CB	ASP	B	86	-90.426	27.594	-75.766	1.00	63.08	B	C
ATOM	10925	CG	ASP	B	86	-89.868	28.522	-76.823	1.00	65.70	B	C
ATOM	10926	OD1	ASP	B	86	-90.413	28.557	-77.952	1.00	63.76	B	O
ATOM	10927	OD2	ASP	B	86	-88.867	29.208	-76.512	1.00	67.49	B	O
ATOM	10928	C	ASP	B	86	-89.907	25.417	-74.623	1.00	56.72	B	C
ATOM	10929	O	ASP	B	86	-90.754	24.561	-74.331	1.00	52.66	B	O
ATOM	10931	N	VAL	B	87	-88.899	25.751	-73.821	1.00	54.97	B	N

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ATOM	10932	CA	VAL	B	87	-88.651	25.049	-72.565	1.00	58.25	B C
ATOM	10934	CB	VAL	B	87	-87.177	24.529	-72.492	1.00	57.28	B C
ATOM	10936	CG1	VAL	B	87	-86.849	24.004	-71.105	1.00	56.39	B C
ATOM	10940	CG2	VAL	B	87	-86.936	23.444	-73.541	1.00	55.90	B C
ATOM	10944	C	VAL	B	87	-88.967	25.942	-71.365	1.00	59.58	B C
ATOM	10945	O	VAL	B	87	-88.310	26.967	-71.151	1.00	58.95	B O
ATOM	10947	N	LEU	B	88	-89.966	25.532	-70.584	1.00	61.74	B N
ATOM	10948	CA	LEU	B	88	-90.378	26.268	-69.385	1.00	61.68	B C
ATOM	10950	CB	LEU	B	88	-91.826	25.922	-69.009	1.00	63.99	B C
ATOM	10953	CG	LEU	B	88	-92.401	26.568	-67.739	1.00	64.77	B C
ATOM	10955	CD1	LEU	B	88	-92.224	28.091	-67.765	1.00	64.30	B C
ATOM	10959	CD2	LEU	B	88	-93.873	26.178	-67.542	1.00	63.20	B C
ATOM	10963	C	LEU	B	88	-89.458	26.024	-68.186	1.00	61.02	B C
ATOM	10964	O	LEU	B	88	-89.323	26.901	-67.331	1.00	60.87	B O
ATOM	10966	N	ARG	B	89	-88.838	24.842	-68.117	1.00	62.37	B N
ATOM	10967	CA	ARG	B	89	-87.984	24.481	-66.973	1.00	61.62	B C
ATOM	10969	CB	ARG	B	89	-88.855	23.958	-65.823	1.00	63.06	B C
ATOM	10972	CG	ARG	B	89	-88.522	24.554	-64.462	1.00	65.03	B C
ATOM	10975	CD	ARG	B	89	-89.480	24.048	-63.379	1.00	65.42	B C
ATOM	10978	NE	ARG	B	89	-88.859	23.058	-62.491	1.00	65.61	B N
ATOM	10980	CZ	ARG	B	89	-89.520	22.128	-61.799	1.00	65.03	B C
ATOM	10981	NH1	ARG	B	89	-90.843	22.019	-61.881	1.00	64.97	B N
ATOM	10984	NH2	ARG	B	89	-88.849	21.286	-61.021	1.00	65.29	B N
ATOM	10987	C	ARG	B	89	-86.949	23.416	-67.333	1.00	58.80	B C
ATOM	10988	O	ARG	B	89	-87.290	22.417	-67.964	1.00	56.55	B O
ATOM	10990	N	ALA	B	90	-85.698	23.627	-66.918	1.00	57.48	B N
ATOM	10991	CA	ALA	B	90	-84.624	22.625	-67.080	1.00	55.53	B C
ATOM	10993	CB	ALA	B	90	-83.466	23.213	-67.869	1.00	58.54	B C
ATOM	10997	C	ALA	B	90	-84.124	22.101	-65.730	1.00	52.58	B C
ATOM	10998	O	ALA	B	90	-83.453	22.822	-64.986	1.00	49.36	B O
ATOM	11000	N	VAL	B	91	-84.439	20.842	-65.427	1.00	52.61	B N
ATOM	11001	CA	VAL	B	91	-84.057	20.227	-64.148	1.00	51.47	B C
ATOM	11003	CB	VAL	B	91	-85.271	19.607	-63.419	1.00	50.48	B C
ATOM	11005	CG1	VAL	B	91	-84.842	19.050	-62.050	1.00	49.03	B C
ATOM	11009	CG2	VAL	B	91	-86.365	20.639	-63.245	1.00	52.98	B C
ATOM	11013	C	VAL	B	91	-82.984	19.133	-64.302	1.00	48.93	B C
ATOM	11014	O	VAL	B	91	-83.315	17.953	-64.446	1.00	48.49	B O
ATOM	11016	N	PRO	B	92	-81.690	19.512	-64.277	1.00	47.45	B N
ATOM	11017	CA	PRO	B	92	-80.677	18.459	-64.201	1.00	48.88	B C
ATOM	11019	CB	PRO	B	92	-79.348	19.220	-64.349	1.00	49.37	B C
ATOM	11022	CG	PRO	B	92	-79.649	20.605	-63.938	1.00	50.41	B C
ATOM	11025	CD	PRO	B	92	-81.078	20.853	-64.349	1.00	50.15	B C
ATOM	11028	C	PRO	B	92	-80.702	17.718	-62.874	1.00	50.45	B C
ATOM	11029	O	PRO	B	92	-81.141	18.270	-61.862	1.00	53.12	B O
ATOM	11030	N	HIS	B	93	-80.225	16.475	-62.881	1.00	48.33	B N
ATOM	11031	CA	HIS	B	93	-80.074	15.713	-61.640	1.00	47.34	B C
ATOM	11033	CB	HIS	B	93	-79.428	14.343	-61.909	1.00	42.80	B C
ATOM	11036	CG	HIS	B	93	-79.419	13.425	-60.719	1.00	42.60	B C
ATOM	11037	ND1	HIS	B	93	-78.470	13.503	-59.720	1.00	38.99	B N
ATOM	11039	CE1	HIS	B	93	-78.713	12.575	-58.810	1.00	38.06	B C
ATOM	11041	NE2	HIS	B	93	-79.784	11.896	-59.179	1.00	34.18	B N
ATOM	11043	CD2	HIS	B	93	-80.241	12.404	-60.373	1.00	38.75	B C
ATOM	11045	C	HIS	B	93	-79.218	16.551	-60.684	1.00	47.62	B C
ATOM	11046	O	HIS	B	93	-78.200	17.095	-61.105	1.00	45.35	B O
ATOM	11048	N	PRO	B	94	-79.640	16.676	-59.404	1.00	51.76	B N
ATOM	11049	CA	PRO	B	94	-78.928	17.561	-58.467	1.00	51.47	B C
ATOM	11051	CB	PRO	B	94	-79.632	17.306	-57.120	1.00	52.26	B C
ATOM	11054	CG	PRO	B	94	-80.406	16.050	-57.297	1.00	54.13	B C
ATOM	11057	CD	PRO	B	94	-80.784	16.018	-58.748	1.00	52.39	B C
ATOM	11060	C	PRO	B	94	-77.435	17.259	-58.344	1.00	51.09	B C
ATOM	11061	O	PRO	B	94	-76.629	18.185	-58.198	1.00	52.18	B O
ATOM	11062	N	ASP	B	95	-77.082	15.974	-58.407	1.00	48.72	B N
ATOM	11063	CA	ASP	B	95	-75.693	15.525	-58.231	1.00	50.35	B C
ATOM	11065	CB	ASP	B	95	-75.650	14.126	-57.606	1.00	48.55	B C
ATOM	11068	CG	ASP	B	95	-76.159	14.112	-56.193	1.00	50.54	B C
ATOM	11069	OD1	ASP	B	95	-75.421	14.597	-55.312	1.00	51.54	B O
ATOM	11070	OD2	ASP	B	95	-77.291	13.628	-55.962	1.00	51.71	B O
ATOM	11071	C	ASP	B	95	-74.890	15.482	-59.533	1.00	50.98	B C

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ATOM	11072	O	ASP	B	95	-73.707	15.118	-59.528	1.00	50.32	B	O
ATOM	11074	N	SER	B	96	-75.519	15.835	-60.652	1.00	50.35	B	N
ATOM	11075	CA	SER	B	96	-74.784	15.901	-61.922	1.00	53.75	B	C
ATOM	11077	CB	SER	B	96	-75.725	15.935	-63.139	1.00	52.88	B	C
ATOM	11080	OG	SER	B	96	-76.268	17.220	-63.372	1.00	54.36	B	O
ATOM	11082	C	SER	B	96	-73.853	17.109	-61.930	1.00	55.31	B	C
ATOM	11083	O	SER	B	96	-74.104	18.119	-61.260	1.00	50.72	B	O
ATOM	11085	N	GLN	B	97	-72.771	17.004	-62.687	1.00	60.60	B	N
ATOM	11086	CA	GLN	B	97	-71.782	18.067	-62.717	1.00	64.11	B	C
ATOM	11088	CB	GLN	B	97	-71.061	18.134	-61.353	1.00	67.47	B	C
ATOM	11091	CG	GLN	B	97	-69.681	17.496	-61.293	1.00	68.83	B	C
ATOM	11094	CD	GLN	B	97	-69.143	17.453	-59.876	1.00	70.75	B	C
ATOM	11095	OE1	GLN	B	97	-68.367	18.321	-59.471	1.00	74.81	B	O
ATOM	11096	NE2	GLN	B	97	-69.567	16.454	-59.107	1.00	70.54	B	N
ATOM	11099	C	GLN	B	97	-70.775	17.871	-63.854	1.00	64.92	B	C
ATOM	11100	O	GLN	B	97	-70.645	16.764	-64.363	1.00	66.22	B	O
ATOM	11102	N	PRO	B	98	-70.042	18.942	-64.227	1.00	65.76	B	N
ATOM	11103	CA	PRO	B	98	-69.207	19.000	-65.438	1.00	67.03	B	C
ATOM	11105	CB	PRO	B	98	-68.620	20.418	-65.391	1.00	69.03	B	C
ATOM	11108	CG	PRO	B	98	-69.529	21.182	-64.510	1.00	69.86	B	C
ATOM	11111	CD	PRO	B	98	-69.959	20.205	-63.473	1.00	68.91	B	C
ATOM	11114	C	PRO	B	98	-68.068	17.972	-65.569	1.00	68.85	B	C
ATOM	11115	O	PRO	B	98	-67.731	17.590	-66.688	1.00	69.69	B	O
ATOM	11116	N	ASP	B	99	-67.479	17.543	-64.453	1.00	67.50	B	N
ATOM	11117	CA	ASP	B	99	-66.301	16.661	-64.488	1.00	67.34	B	C
ATOM	11119	CB	ASP	B	99	-65.188	17.201	-63.573	1.00	71.82	B	C
ATOM	11122	CG	ASP	B	99	-64.911	18.674	-63.787	1.00	77.57	B	C
ATOM	11123	OD1	ASP	B	99	-63.755	19.015	-64.129	1.00	80.43	B	O
ATOM	11124	OD2	ASP	B	99	-65.844	19.491	-63.609	1.00	79.27	B	O
ATOM	11125	C	ASP	B	99	-66.594	15.213	-64.071	1.00	66.28	B	C
ATOM	11126	O	ASP	B	99	-65.716	14.538	-63.517	1.00	65.18	B	O
ATOM	11128	N	THR	B	100	-67.818	14.746	-64.316	1.00	63.79	B	N
ATOM	11129	CA	THR	B	100	-68.205	13.363	-64.019	1.00	61.55	B	C
ATOM	11131	CB	THR	B	100	-68.750	13.150	-62.580	1.00	62.00	B	C
ATOM	11133	OG1	THR	B	100	-69.912	13.965	-62.356	1.00	63.14	B	O
ATOM	11135	CG2	THR	B	100	-67.686	13.446	-61.524	1.00	62.61	B	C
ATOM	11139	C	THR	B	100	-69.285	12.937	-64.993	1.00	59.09	B	C
ATOM	11140	O	THR	B	100	-70.160	13.734	-65.350	1.00	61.10	B	O
ATOM	11142	N	ILE	B	101	-69.236	11.679	-65.411	1.00	57.50	B	N
ATOM	11143	CA	ILE	B	101	-70.316	11.102	-66.218	1.00	56.65	B	C
ATOM	11145	CB	ILE	B	101	-69.812	10.018	-67.223	1.00	57.53	B	C
ATOM	11147	CG1	ILE	B	101	-69.033	8.898	-66.521	1.00	55.34	B	C
ATOM	11150	CD1	ILE	B	101	-68.848	7.676	-67.389	1.00	54.69	B	C
ATOM	11154	CG2	ILE	B	101	-68.962	10.658	-68.324	1.00	57.41	B	C
ATOM	11158	C	ILE	B	101	-71.454	10.548	-65.345	1.00	54.12	B	C
ATOM	11159	O	ILE	B	101	-72.443	10.020	-65.854	1.00	55.10	B	O
ATOM	11161	N	ASP	B	102	-71.323	10.709	-64.034	1.00	53.33	B	N
ATOM	11162	CA	ASP	B	102	-72.312	10.228	-63.095	1.00	50.87	B	C
ATOM	11164	CB	ASP	B	102	-71.624	10.016	-61.747	1.00	48.15	B	C
ATOM	11167	CG	ASP	B	102	-70.392	9.160	-61.880	1.00	44.88	B	C
ATOM	11168	OD1	ASP	B	102	-70.502	8.067	-62.453	1.00	44.48	B	O
ATOM	11169	OD2	ASP	B	102	-69.306	9.589	-61.457	1.00	49.04	B	O
ATOM	11170	C	ASP	B	102	-73.533	11.158	-63.030	1.00	47.91	B	C
ATOM	11171	O	ASP	B	102	-73.415	12.385	-63.188	1.00	45.45	B	O
ATOM	11173	N	HIS	B	103	-74.700	10.536	-62.842	1.00	45.74	B	N
ATOM	11174	CA	HIS	B	103	-75.986	11.231	-62.664	1.00	44.61	B	C
ATOM	11176	CB	HIS	B	103	-75.937	11.982	-61.336	1.00	42.70	B	C
ATOM	11179	CG	HIS	B	103	-75.035	11.326	-60.339	1.00	38.07	B	C
ATOM	11180	ND1	HIS	B	103	-75.187	10.012	-59.963	1.00	37.88	B	N
ATOM	11182	CE1	HIS	B	103	-74.245	9.694	-59.094	1.00	41.34	B	C
ATOM	11184	NE2	HIS	B	103	-73.469	10.748	-58.918	1.00	40.14	B	N
ATOM	11186	CD2	HIS	B	103	-73.935	11.778	-59.695	1.00	38.29	B	C
ATOM	11188	C	HIS	B	103	-76.340	12.139	-63.841	1.00	43.08	B	C
ATOM	11189	O	HIS	B	103	-76.933	13.189	-63.671	1.00	40.28	B	O
ATOM	11191	N	ASP	B	104	-76.003	11.688	-65.045	1.00	44.63	B	N
ATOM	11192	CA	ASP	B	104	-76.053	12.523	-66.249	1.00	42.78	B	C
ATOM	11194	CB	ASP	B	104	-74.973	12.062	-67.243	1.00	41.39	B	C
ATOM	11197	CG	ASP	B	104	-74.974	12.852	-68.543	1.00	43.53	B	C

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ATOM	11198	OD1	ASP	B	104	-75.396	14.025	-68.563	1.00	43.50	B	O
ATOM	11199	OD2	ASP	B	104	-74.554	12.279	-69.564	1.00	45.73	B	O
ATOM	11200	C	ASP	B	104	-77.453	12.496	-66.878	1.00	43.12	B	C
ATOM	11201	O	ASP	B	104	-77.645	12.092	-68.031	1.00	41.90	B	O
ATOM	11203	N	LEU	B	105	-78.427	12.947	-66.096	1.00	42.61	B	N
ATOM	11204	CA	LEU	B	105	-79.803	12.983	-66.516	1.00	43.80	B	C
ATOM	11206	CB	LEU	B	105	-80.637	12.043	-65.644	1.00	39.70	B	C
ATOM	11209	CG	LEU	B	105	-80.528	10.540	-65.891	1.00	37.49	B	C
ATOM	11211	CD1	LEU	B	105	-81.518	9.803	-64.981	1.00	35.22	B	C
ATOM	11215	CD2	LEU	B	105	-80.769	10.179	-67.371	1.00	34.03	B	C
ATOM	11219	C	LEU	B	105	-80.342	14.408	-66.418	1.00	45.53	B	C
ATOM	11220	O	LEU	B	105	-79.954	15.177	-65.549	1.00	47.30	B	O
ATOM	11222	N	LEU	B	106	-81.245	14.751	-67.323	1.00	49.04	B	N
ATOM	11223	CA	LEU	B	106	-81.839	16.077	-67.355	1.00	48.75	B	C
ATOM	11225	CB	LEU	B	106	-81.082	16.971	-68.340	1.00	51.49	B	C
ATOM	11228	CG	LEU	B	106	-81.481	18.441	-68.511	1.00	50.81	B	C
ATOM	11230	CD1	LEU	B	106	-81.600	19.133	-67.176	1.00	49.67	B	C
ATOM	11234	CD2	LEU	B	106	-80.445	19.150	-69.380	1.00	51.33	B	C
ATOM	11238	C	LEU	B	106	-83.283	15.950	-67.777	1.00	47.63	B	C
ATOM	11239	O	LEU	B	106	-83.586	15.302	-68.780	1.00	42.64	B	O
ATOM	11241	N	LEU	B	107	-84.165	16.573	-67.001	1.00	48.66	B	N
ATOM	11242	CA	LEU	B	107	-85.600	16.536	-67.250	1.00	50.21	B	C
ATOM	11244	CB	LEU	B	107	-86.296	16.091	-65.947	1.00	49.03	B	C
ATOM	11247	CG	LEU	B	107	-87.279	14.903	-65.896	1.00	47.89	B	C
ATOM	11249	CD1	LEU	B	107	-86.986	14.056	-64.650	1.00	40.79	B	C
ATOM	11253	CD2	LEU	B	107	-87.276	14.022	-67.152	1.00	46.84	B	C
ATOM	11257	C	LEU	B	107	-86.066	17.930	-67.732	1.00	50.02	B	C
ATOM	11258	O	LEU	B	107	-85.934	18.920	-67.012	1.00	51.00	B	O
ATOM	11260	N	LEU	B	108	-86.573	18.000	-68.963	1.00	51.22	B	N
ATOM	11261	CA	LEU	B	108	-87.039	19.261	-69.571	1.00	51.41	B	C
ATOM	11263	CB	LEU	B	108	-86.643	19.335	-71.062	1.00	46.27	B	C
ATOM	11266	CG	LEU	B	108	-85.237	19.687	-71.566	1.00	39.43	B	C
ATOM	11268	CD1	LEU	B	108	-84.421	20.422	-70.505	1.00	34.88	B	C
ATOM	11272	CD2	LEU	B	108	-84.530	18.442	-72.067	1.00	37.66	B	C
ATOM	11276	C	LEU	B	108	-88.565	19.383	-69.503	1.00	51.91	B	C
ATOM	11277	O	LEU	B	108	-89.273	18.494	-69.982	1.00	47.90	B	O
ATOM	11279	N	GLN	B	109	-89.070	20.489	-68.955	1.00	54.25	B	N
ATOM	11280	CA	GLN	B	109	-90.517	20.757	-68.955	1.00	55.79	B	C
ATOM	11282	CB	GLN	B	109	-90.969	21.425	-67.651	1.00	56.88	B	C
ATOM	11285	CG	GLN	B	109	-92.500	21.547	-67.521	1.00	57.05	B	C
ATOM	11288	CD	GLN	B	109	-92.971	21.961	-66.126	1.00	55.71	B	C
ATOM	11289	OE1	GLN	B	109	-92.328	22.761	-65.441	1.00	57.79	B	O
ATOM	11290	NE2	GLN	B	109	-94.112	21.420	-65.709	1.00	52.33	B	N
ATOM	11293	C	GLN	B	109	-90.895	21.632	-70.149	1.00	57.11	B	C
ATOM	11294	O	GLN	B	109	-90.407	22.755	-70.286	1.00	55.49	B	O
ATOM	11296	N	LEU	B	110	-91.771	21.116	-71.006	1.00	59.11	B	N
ATOM	11297	CA	LEU	B	110	-92.167	21.818	-72.227	1.00	61.02	B	C
ATOM	11299	CB	LEU	B	110	-92.901	20.862	-73.179	1.00	58.76	B	C
ATOM	11302	CG	LEU	B	110	-92.141	19.612	-73.633	1.00	56.58	B	C
ATOM	11304	CD1	LEU	B	110	-93.068	18.660	-74.371	1.00	54.86	B	C
ATOM	11308	CD2	LEU	B	110	-90.946	19.989	-74.494	1.00	54.48	B	C
ATOM	11312	C	LEU	B	110	-93.061	23.016	-71.902	1.00	63.40	B	C
ATOM	11313	O	LEU	B	110	-93.645	23.091	-70.805	1.00	62.47	B	O
ATOM	11315	N	SER	B	111	-93.171	23.934	-72.870	1.00	64.59	B	N
ATOM	11316	CA	SER	B	111	-93.943	25.179	-72.712	1.00	63.42	B	C
ATOM	11318	CB	SER	B	111	-93.911	26.014	-74.008	1.00	63.47	B	C
ATOM	11321	OG	SER	B	111	-94.280	25.252	-75.147	1.00	62.00	B	O
ATOM	11323	C	SER	B	111	-95.387	24.893	-72.288	1.00	62.76	B	C
ATOM	11324	O	SER	B	111	-95.979	25.631	-71.495	1.00	63.38	B	O
ATOM	11326	N	GLU	B	112	-95.935	23.812	-72.832	1.00	61.49	B	N
ATOM	11327	CA	GLU	B	112	-97.228	23.282	-72.417	1.00	62.27	B	C
ATOM	11329	CB	GLU	B	112	-98.367	23.958	-73.193	1.00	64.09	B	C
ATOM	11332	CG	GLU	B	112	-98.189	23.930	-74.717	1.00	65.12	B	C
ATOM	11335	CD	GLU	B	112	-99.502	23.798	-75.464	1.00	64.38	B	C
ATOM	11336	OE1	GLU	B	112	-100.447	24.544	-75.138	1.00	65.16	B	O
ATOM	11337	OE2	GLU	B	112	-99.582	22.946	-76.374	1.00	63.64	B	O
ATOM	11338	C	GLU	B	112	-97.211	21.775	-72.684	1.00	58.81	B	C
ATOM	11339	O	GLU	B	112	-96.255	21.263	-73.265	1.00	55.46	B	O

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ATOM	11341	N	LYS	B	113	-98.265	21.070	-72.282	1.00	59.73	B	N
ATOM	11342	CA	LYS	B	113	-98.382	19.650	-72.606	1.00	61.54	B	C
ATOM	11344	CB	LYS	B	113	-99.754	19.086	-72.200	1.00	64.42	B	C
ATOM	11347	CG	LYS	B	113	-100.944	19.590	-73.039	1.00	66.84	B	C
ATOM	11350	CD	LYS	B	113	-102.111	18.608	-73.007	1.00	67.03	B	C
ATOM	11353	CE	LYS	B	113	-103.259	19.027	-73.925	1.00	66.41	B	C
ATOM	11356	NZ	LYS	B	113	-103.014	18.636	-75.343	1.00	65.62	B	N
ATOM	11360	C	LYS	B	113	-98.143	19.427	-74.100	1.00	61.42	B	C
ATOM	11361	O	LYS	B	113	-98.523	20.258	-74.934	1.00	61.38	B	O
ATOM	11363	N	ALA	B	114	-97.510	18.306	-74.432	1.00	61.36	B	N
ATOM	11364	CA	ALA	B	114	-97.228	17.974	-75.821	1.00	59.71	B	C
ATOM	11366	CB	ALA	B	114	-96.151	16.892	-75.915	1.00	60.31	B	C
ATOM	11370	C	ALA	B	114	-98.495	17.508	-76.526	1.00	57.52	B	C
ATOM	11371	O	ALA	B	114	-99.247	16.680	-76.002	1.00	57.41	B	O
ATOM	11373	N	THR	B	115	-98.723	18.054	-77.717	1.00	56.62	B	N
ATOM	11374	CA	THR	B	115	-99.827	17.628	-78.570	1.00	57.39	B	C
ATOM	11376	CB	THR	B	115	-99.973	18.547	-79.837	1.00	55.99	B	C
ATOM	11378	OG1	THR	B	115	-100.245	19.900	-79.438	1.00	51.25	B	O
ATOM	11380	CG2	THR	B	115	-101.092	18.055	-80.764	1.00	55.21	B	C
ATOM	11384	C	THR	B	115	-99.557	16.182	-78.980	1.00	59.05	B	C
ATOM	11385	O	THR	B	115	-98.685	15.918	-79.815	1.00	58.37	B	O
ATOM	11387	N	LEU	B	116	-100.291	15.257	-78.360	1.00	58.81	B	N
ATOM	11388	CA	LEU	B	116	-100.137	13.828	-78.617	1.00	57.77	B	C
ATOM	11390	CB	LEU	B	116	-100.797	12.998	-77.498	1.00	58.91	B	C
ATOM	11393	CG	LEU	B	116	-100.047	12.855	-76.167	1.00	57.12	B	C
ATOM	11395	CD1	LEU	B	116	-100.877	12.093	-75.132	1.00	56.49	B	C
ATOM	11399	CD2	LEU	B	116	-98.732	12.153	-76.399	1.00	56.46	B	C
ATOM	11403	C	LEU	B	116	-100.748	13.455	-79.959	1.00	56.47	B	C
ATOM	11404	O	LEU	B	116	-101.627	14.155	-80.467	1.00	57.53	B	O
ATOM	11406	N	GLY	B	117	-100.287	12.339	-80.516	1.00	57.78	B	N
ATOM	11407	CA	GLY	B	117	-100.760	11.856	-81.814	1.00	58.80	B	C
ATOM	11410	C	GLY	B	117	-100.096	10.537	-82.182	1.00	60.62	B	C
ATOM	11411	O	GLY	B	117	-99.468	9.901	-81.327	1.00	62.17	B	O
ATOM	11413	N	PRO	B	118	-100.223	10.111	-83.455	1.00	60.62	B	N
ATOM	11414	CA	PRO	B	118	-99.566	8.860	-83.873	1.00	60.67	B	C
ATOM	11416	CB	PRO	B	118	-100.104	8.635	-85.298	1.00	60.75	B	C
ATOM	11419	CG	PRO	B	118	-100.485	9.985	-85.781	1.00	60.79	B	C
ATOM	11422	CD	PRO	B	118	-100.956	10.745	-84.567	1.00	60.78	B	C
ATOM	11425	C	PRO	B	118	-98.031	8.953	-83.883	1.00	59.33	B	C
ATOM	11426	O	PRO	B	118	-97.352	7.938	-83.703	1.00	55.34	B	O
ATOM	11427	N	ALA	B	119	-97.517	10.170	-84.088	1.00	60.31	B	N
ATOM	11428	CA	ALA	B	119	-96.078	10.437	-84.194	1.00	57.34	B	C
ATOM	11430	CB	ALA	B	119	-95.806	11.299	-85.432	1.00	58.97	B	C
ATOM	11434	C	ALA	B	119	-95.467	11.107	-82.949	1.00	55.03	B	C
ATOM	11435	O	ALA	B	119	-94.265	11.389	-82.936	1.00	57.39	B	O
ATOM	11437	N	VAL	B	120	-96.282	11.365	-81.922	1.00	52.91	B	N
ATOM	11438	CA	VAL	B	120	-95.817	12.014	-80.680	1.00	55.41	B	C
ATOM	11440	CB	VAL	B	120	-96.171	13.523	-80.662	1.00	56.63	B	C
ATOM	11442	CG1	VAL	B	120	-96.160	14.075	-79.236	1.00	56.92	B	C
ATOM	11446	CG2	VAL	B	120	-95.209	14.303	-81.548	1.00	58.85	B	C
ATOM	11450	C	VAL	B	120	-96.440	11.342	-79.457	1.00	57.68	B	C
ATOM	11451	O	VAL	B	120	-97.658	11.373	-79.287	1.00	59.55	B	O
ATOM	11453	N	ARG	B	121	-95.603	10.748	-78.603	1.00	61.68	B	N
ATOM	11454	CA	ARG	B	121	-96.095	9.929	-77.492	1.00	62.38	B	C
ATOM	11456	CB	ARG	B	121	-96.642	8.629	-78.053	1.00	68.95	B	C
ATOM	11459	CG	ARG	B	121	-97.544	7.927	-77.105	1.00	73.56	B	C
ATOM	11462	CD	ARG	B	121	-97.496	6.466	-77.327	1.00	78.28	B	C
ATOM	11465	NE	ARG	B	121	-98.721	5.861	-76.849	1.00	80.78	B	N
ATOM	11467	CZ	ARG	B	121	-98.909	4.556	-76.726	1.00	82.60	B	C
ATOM	11468	NH1	ARG	B	121	-97.958	3.677	-77.040	1.00	82.61	B	N
ATOM	11471	NH2	ARG	B	121	-100.071	4.128	-76.301	1.00	83.06	B	N
ATOM	11474	C	ARG	B	121	-95.021	9.568	-76.452	1.00	60.97	B	C
ATOM	11475	O	ARG	B	121	-93.903	9.215	-76.827	1.00	59.73	B	O
ATOM	11477	N	PRO	B	122	-95.364	9.622	-75.143	1.00	60.19	B	N
ATOM	11478	CA	PRO	B	122	-94.394	9.206	-74.127	1.00	57.80	B	C
ATOM	11480	CB	PRO	B	122	-95.136	9.467	-72.807	1.00	59.14	B	C
ATOM	11483	CG	PRO	B	122	-96.572	9.450	-73.167	1.00	60.35	B	C
ATOM	11486	CD	PRO	B	122	-96.619	10.087	-74.518	1.00	61.00	B	C

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ATOM	11489	C	PRO	B	122	-93.988	7.731	-74.209	1.00	55.47	B C
ATOM	11490	O	PRO	B	122	-94.762	6.906	-74.706	1.00	53.86	B O
ATOM	11491	N	LEU	B	123	-92.780	7.426	-73.724	1.00	53.68	B N
ATOM	11492	CA	LEU	B	123	-92.264	6.055	-73.605	1.00	54.97	B C
ATOM	11494	CB	LEU	B	123	-90.839	5.976	-74.165	1.00	55.02	B C
ATOM	11497	CG	LEU	B	123	-90.263	4.657	-74.703	1.00	55.12	B C
ATOM	11499	CD1	LEU	B	123	-88.832	4.885	-75.191	1.00	54.67	B C
ATOM	11503	CD2	LEU	B	123	-90.279	3.541	-73.678	1.00	53.89	B C
ATOM	11507	C	LEU	B	123	-92.248	5.644	-72.123	1.00	54.69	B C
ATOM	11508	O	LEU	B	123	-91.752	6.395	-71.276	1.00	56.50	B O
ATOM	11510	N	PRO	B	124	-92.804	4.462	-71.797	1.00	53.24	B N
ATOM	11511	CA	PRO	B	124	-92.632	3.954	-70.437	1.00	53.16	B C
ATOM	11513	CB	PRO	B	124	-93.514	2.693	-70.404	1.00	52.35	B C
ATOM	11516	CG	PRO	B	124	-94.389	2.774	-71.597	1.00	52.61	B C
ATOM	11519	CD	PRO	B	124	-93.631	3.556	-72.617	1.00	53.93	B C
ATOM	11522	C	PRO	B	124	-91.160	3.626	-70.121	1.00	50.91	B C
ATOM	11523	O	PRO	B	124	-90.443	3.064	-70.958	1.00	45.58	B O
ATOM	11524	N	TRP	B	125	-90.723	3.980	-68.919	1.00	49.61	B N
ATOM	11525	CA	TRP	B	125	-89.331	3.808	-68.526	1.00	50.18	B C
ATOM	11527	CB	TRP	B	125	-88.714	5.143	-68.099	1.00	50.09	B C
ATOM	11530	CG	TRP	B	125	-89.436	5.897	-67.005	1.00	50.06	B C
ATOM	11531	CD1	TRP	B	125	-90.404	6.856	-67.163	1.00	51.41	B C
ATOM	11533	NE1	TRP	B	125	-90.799	7.342	-65.931	1.00	51.08	B N
ATOM	11535	CE2	TRP	B	125	-90.080	6.704	-64.954	1.00	48.96	B C
ATOM	11536	CD2	TRP	B	125	-89.209	5.790	-65.592	1.00	49.59	B C
ATOM	11537	CE3	TRP	B	125	-88.360	5.005	-64.804	1.00	50.78	B C
ATOM	11539	CZ3	TRP	B	125	-88.405	5.151	-63.416	1.00	50.64	B C
ATOM	11541	CH2	TRP	B	125	-89.287	6.066	-62.815	1.00	50.32	B C
ATOM	11543	CZ2	TRP	B	125	-90.130	6.847	-63.565	1.00	49.16	B C
ATOM	11545	C	TRP	B	125	-89.207	2.773	-67.418	1.00	48.81	B C
ATOM	11546	O	TRP	B	125	-90.137	2.593	-66.625	1.00	51.59	B O
ATOM	11548	N	GLN	B	126	-88.062	2.089	-67.386	1.00	48.29	B N
ATOM	11549	CA	GLN	B	126	-87.846	0.952	-66.487	1.00	50.80	B C
ATOM	11551	CB	GLN	B	126	-86.544	0.217	-66.857	1.00	50.70	B C
ATOM	11554	CG	GLN	B	126	-86.187	-0.978	-65.962	1.00	51.68	B C
ATOM	11557	CD	GLN	B	126	-87.258	-2.058	-65.942	1.00	53.58	B C
ATOM	11558	OE1	GLN	B	126	-87.751	-2.430	-64.876	1.00	52.35	B O
ATOM	11559	NE2	GLN	B	126	-87.625	-2.565	-67.123	1.00	53.10	B N
ATOM	11562	C	GLN	B	126	-87.818	1.392	-65.028	1.00	50.85	B C
ATOM	11563	O	GLN	B	126	-87.001	2.217	-64.631	1.00	48.11	B O
ATOM	11565	N	ARG	B	127	-88.719	0.827	-64.235	1.00	54.38	B N
ATOM	11566	CA	ARG	B	127	-88.881	1.214	-62.837	1.00	56.27	B C
ATOM	11568	CB	ARG	B	127	-90.374	1.261	-62.477	1.00	58.94	B C
ATOM	11571	CG	ARG	B	127	-90.674	1.829	-61.082	1.00	58.79	B C
ATOM	11574	CD	ARG	B	127	-92.167	2.107	-60.877	1.00	57.48	B C
ATOM	11577	NE	ARG	B	127	-92.718	2.966	-61.926	1.00	57.14	B N
ATOM	11579	CZ	ARG	B	127	-92.583	4.291	-61.993	1.00	55.70	B C
ATOM	11580	NH1	ARG	B	127	-91.907	4.961	-61.065	1.00	53.14	B N
ATOM	11583	NH2	ARG	B	127	-93.134	4.955	-63.008	1.00	55.80	B N
ATOM	11586	C	ARG	B	127	-88.154	0.255	-61.907	1.00	56.08	B C
ATOM	11587	O	ARG	B	127	-87.722	0.652	-60.819	1.00	57.18	B O
ATOM	11589	N	VAL	B	128	-88.034	-1.003	-62.331	1.00	55.64	B N
ATOM	11590	CA	VAL	B	128	-87.405	-2.039	-61.516	1.00	55.43	B C
ATOM	11592	CB	VAL	B	128	-87.945	-3.455	-61.835	1.00	57.03	B C
ATOM	11594	CG1	VAL	B	128	-87.310	-4.496	-60.909	1.00	54.72	B C
ATOM	11598	CG2	VAL	B	128	-89.466	-3.485	-61.717	1.00	57.50	B C
ATOM	11602	C	VAL	B	128	-85.894	-1.994	-61.727	1.00	57.44	B C
ATOM	11603	O	VAL	B	128	-85.403	-2.075	-62.859	1.00	54.36	B O
ATOM	11605	N	ASP	B	129	-85.173	-1.869	-60.618	1.00	57.78	B N
ATOM	11606	CA	ASP	B	129	-83.736	-1.660	-60.643	1.00	56.51	B C
ATOM	11608	CB	ASP	B	129	-83.291	-0.817	-59.425	1.00	57.96	B C
ATOM	11611	CG	ASP	B	129	-81.811	-0.373	-59.490	1.00	57.89	B C
ATOM	11612	OD1	ASP	B	129	-80.968	-1.050	-60.116	1.00	54.48	B O
ATOM	11613	OD2	ASP	B	129	-81.486	0.662	-58.877	1.00	58.16	B O
ATOM	11614	C	ASP	B	129	-83.041	-3.016	-60.679	1.00	55.29	B C
ATOM	11615	O	ASP	B	129	-82.609	-3.545	-59.653	1.00	48.83	B O
ATOM	11617	N	ARG	B	130	-82.966	-3.585	-61.875	1.00	57.48	B N
ATOM	11618	CA	ARG	B	130	-82.086	-4.713	-62.112	1.00	58.30	B C

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ATOM	11620	CB	ARG	B	130	-82.792	-6.038	-61.729	1.00	66.44	B	C
ATOM	11623	CG	ARG	B	130	-83.060	-7.071	-62.824	1.00	74.66	B	C
ATOM	11626	CD	ARG	B	130	-84.101	-6.631	-63.859	1.00	82.57	B	C
ATOM	11629	NE	ARG	B	130	-85.480	-6.679	-63.369	1.00	85.90	B	N
ATOM	11631	CZ	ARG	B	130	-86.218	-7.785	-63.258	1.00	86.98	B	C
ATOM	11632	NH1	ARG	B	130	-85.722	-8.983	-63.582	1.00	87.05	B	N
ATOM	11635	NH2	ARG	B	130	-87.466	-7.689	-62.804	1.00	86.72	B	N
ATOM	11638	C	ARG	B	130	-81.558	-4.646	-63.547	1.00	54.92	B	C
ATOM	11639	O	ARG	B	130	-82.189	-4.056	-64.433	1.00	50.70	B	O
ATOM	11641	N	ASP	B	131	-80.365	-5.197	-63.745	1.00	50.54	B	N
ATOM	11642	CA	ASP	B	131	-79.663	-5.081	-65.014	1.00	48.70	B	C
ATOM	11644	CB	ASP	B	131	-78.289	-5.764	-64.926	1.00	47.57	B	C
ATOM	11647	CG	ASP	B	131	-77.264	-4.963	-64.129	1.00	46.61	B	C
ATOM	11648	OD1	ASP	B	131	-77.381	-3.718	-64.043	1.00	45.17	B	O
ATOM	11649	OD2	ASP	B	131	-76.321	-5.598	-63.603	1.00	42.10	B	O
ATOM	11650	C	ASP	B	131	-80.432	-5.713	-66.168	1.00	44.79	B	C
ATOM	11651	O	ASP	B	131	-81.080	-6.741	-66.008	1.00	48.07	B	O
ATOM	11653	N	VAL	B	132	-80.336	-5.088	-67.334	1.00	42.65	B	N
ATOM	11654	CA	VAL	B	132	-80.650	-5.763	-68.575	1.00	40.34	B	C
ATOM	11656	CB	VAL	B	132	-80.680	-4.784	-69.768	1.00	34.67	B	C
ATOM	11658	CG1	VAL	B	132	-80.910	-5.526	-71.096	1.00	32.86	B	C
ATOM	11662	CG2	VAL	B	132	-81.754	-3.726	-69.553	1.00	31.43	B	C
ATOM	11666	C	VAL	B	132	-79.597	-6.856	-68.771	1.00	41.76	B	C
ATOM	11667	O	VAL	B	132	-78.398	-6.627	-68.615	1.00	43.96	B	O
ATOM	11669	N	ALA	B	133	-80.063	-8.057	-69.080	1.00	45.13	B	N
ATOM	11670	CA	ALA	B	133	-79.200	-9.212	-69.240	1.00	41.07	B	C
ATOM	11672	CB	ALA	B	133	-80.053	-10.457	-69.535	1.00	41.02	B	C
ATOM	11676	C	ALA	B	133	-78.178	-8.970	-70.356	1.00	38.15	B	C
ATOM	11677	O	ALA	B	133	-78.505	-8.327	-71.358	1.00	38.44	B	O
ATOM	11679	N	PRO	B	134	-76.935	-9.463	-70.173	1.00	36.48	B	N
ATOM	11680	CA	PRO	B	134	-75.892	-9.434	-71.210	1.00	37.35	B	C
ATOM	11682	CB	PRO	B	134	-74.762	-10.258	-70.594	1.00	37.67	B	C
ATOM	11685	CG	PRO	B	134	-74.976	-10.156	-69.118	1.00	38.52	B	C
ATOM	11688	CD	PRO	B	134	-76.454	-10.072	-68.921	1.00	36.70	B	C
ATOM	11691	C	PRO	B	134	-76.365	-10.098	-72.505	1.00	41.04	B	C
ATOM	11692	O	PRO	B	134	-77.054	-11.122	-72.459	1.00	44.48	B	O
ATOM	11693	N	GLY	B	135	-76.014	-9.514	-73.645	1.00	39.63	B	N
ATOM	11694	CA	GLY	B	135	-76.446	-10.037	-74.929	1.00	38.19	B	C
ATOM	11697	C	GLY	B	135	-77.808	-9.554	-75.389	1.00	39.74	B	C
ATOM	11698	O	GLY	B	135	-78.109	-9.636	-76.584	1.00	40.99	B	O
ATOM	11700	N	THR	B	136	-78.637	-9.050	-74.464	1.00	38.18	B	N
ATOM	11701	CA	THR	B	136	-79.969	-8.539	-74.809	1.00	39.24	B	C
ATOM	11703	CB	THR	B	136	-80.704	-8.017	-73.570	1.00	38.20	B	C
ATOM	11705	OG1	THR	B	136	-80.808	-9.073	-72.606	1.00	39.12	B	O
ATOM	11707	CG2	THR	B	136	-82.099	-7.509	-73.929	1.00	35.94	B	C
ATOM	11711	C	THR	B	136	-79.842	-7.443	-75.856	1.00	39.86	B	C
ATOM	11712	O	THR	B	136	-78.976	-6.590	-75.755	1.00	43.99	B	O
ATOM	11714	N	LEU	B	137	-80.693	-7.486	-76.872	1.00	42.83	B	N
ATOM	11715	CA	LEU	B	137	-80.529	-6.638	-78.052	1.00	43.42	B	C
ATOM	11717	CB	LEU	B	137	-80.874	-7.443	-79.314	1.00	45.20	B	C
ATOM	11720	CG	LEU	B	137	-80.150	-7.128	-80.628	1.00	45.64	B	C
ATOM	11722	CD1	LEU	B	137	-78.629	-7.071	-80.473	1.00	44.27	B	C
ATOM	11726	CD2	LEU	B	137	-80.536	-8.171	-81.675	1.00	44.43	B	C
ATOM	11730	C	LEU	B	137	-81.431	-5.415	-77.878	1.00	44.16	B	C
ATOM	11731	O	LEU	B	137	-82.640	-5.556	-77.722	1.00	45.91	B	O
ATOM	11733	N	CYS	B	138	-80.820	-4.227	-77.863	1.00	41.36	B	N
ATOM	11734	CA	CYS	B	138	-81.506	-2.968	-77.568	1.00	37.98	B	C
ATOM	11736	CB	CYS	B	138	-80.903	-2.329	-76.329	1.00	35.02	B	C
ATOM	11739	SG	CYS	B	138	-80.915	-3.414	-74.934	1.00	38.12	B	S
ATOM	11741	C	CYS	B	138	-81.399	-1.968	-78.697	1.00	35.71	B	C
ATOM	11742	O	CYS	B	138	-80.466	-1.998	-79.479	1.00	32.54	B	O
ATOM	11744	N	ASP	B	139	-82.339	-1.036	-78.729	1.00	39.31	B	N
ATOM	11745	CA	ASP	B	139	-82.448	-0.094	-79.827	1.00	38.89	B	C
ATOM	11747	CB	ASP	B	139	-83.877	-0.119	-80.360	1.00	38.98	B	C
ATOM	11750	CG	ASP	B	139	-84.032	0.648	-81.647	1.00	38.99	B	C
ATOM	11751	OD1	ASP	B	139	-83.330	0.318	-82.619	1.00	41.91	B	O
ATOM	11752	OD2	ASP	B	139	-84.862	1.578	-81.683	1.00	34.77	B	O
ATOM	11753	C	ASP	B	139	-82.092	1.300	-79.347	1.00	37.72	B	C

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ATOM	11754	O	ASP	B	139	-82.741	1.813	-78.433	1.00	36.18	B	O
ATOM	11756	N	VAL	B	140	-81.049	1.894	-79.932	1.00	36.52	B	N
ATOM	11757	CA	VAL	B	140	-80.733	3.310	-79.705	1.00	36.92	B	C
ATOM	11759	CB	VAL	B	140	-79.309	3.533	-79.104	1.00	37.70	B	C
ATOM	11761	CG1	VAL	B	140	-78.212	3.055	-80.060	1.00	36.88	B	C
ATOM	11765	CG2	VAL	B	140	-79.110	5.006	-78.756	1.00	37.68	B	C
ATOM	11769	C	VAL	B	140	-80.921	4.104	-81.007	1.00	35.48	B	C
ATOM	11770	O	VAL	B	140	-80.501	3.665	-82.083	1.00	30.92	B	O
ATOM	11772	N	ALA	B	141	-81.580	5.260	-80.897	1.00	37.70	B	N
ATOM	11773	CA	ALA	B	141	-81.850	6.127	-82.047	1.00	37.88	B	C
ATOM	11775	CB	ALA	B	141	-83.327	6.171	-82.338	1.00	38.39	B	C
ATOM	11779	C	ALA	B	141	-81.323	7.532	-81.796	1.00	38.12	B	C
ATOM	11780	O	ALA	B	141	-81.138	7.941	-80.640	1.00	33.18	B	O
ATOM	11782	N	GLY	B	142	-81.071	8.265	-82.882	1.00	38.25	B	N
ATOM	11783	CA	GLY	B	142	-80.536	9.626	-82.764	1.00	39.96	B	C
ATOM	11786	C	GLY	B	142	-80.104	10.298	-84.056	1.00	40.04	B	C
ATOM	11787	O	GLY	B	142	-79.979	9.650	-85.103	1.00	34.84	B	O
ATOM	11789	N	TRP	B	143	-79.863	11.609	-83.955	1.00	41.03	B	N
ATOM	11790	CA	TRP	B	143	-79.400	12.444	-85.076	1.00	40.97	B	C
ATOM	11792	CB	TRP	B	143	-80.182	13.766	-85.134	1.00	47.60	B	C
ATOM	11795	CG	TRP	B	143	-81.582	13.693	-85.639	1.00	48.60	B	C
ATOM	11796	CD1	TRP	B	143	-81.988	13.740	-86.945	1.00	49.15	B	C
ATOM	11798	NE1	TRP	B	143	-83.357	13.676	-87.015	1.00	49.21	B	N
ATOM	11800	CE2	TRP	B	143	-83.866	13.605	-85.744	1.00	48.62	B	C
ATOM	11801	CD2	TRP	B	143	-82.771	13.625	-84.849	1.00	48.55	B	C
ATOM	11802	CE3	TRP	B	143	-83.018	13.565	-83.470	1.00	48.19	B	C
ATOM	11804	CZ3	TRP	B	143	-84.335	13.485	-83.032	1.00	49.03	B	C
ATOM	11806	CH2	TRP	B	143	-85.409	13.466	-83.948	1.00	49.31	B	C
ATOM	11808	CZ2	TRP	B	143	-85.194	13.526	-85.305	1.00	48.96	B	C
ATOM	11810	C	TRP	B	143	-77.917	12.799	-84.916	1.00	37.57	B	C
ATOM	11811	O	TRP	B	143	-77.460	13.834	-85.413	1.00	37.74	B	O
ATOM	11813	N	GLY	B	144	-77.172	11.953	-84.207	1.00	39.23	B	N
ATOM	11814	CA	GLY	B	144	-75.749	12.183	-83.990	1.00	39.27	B	C
ATOM	11817	C	GLY	B	144	-74.954	11.759	-85.202	1.00	39.01	B	C
ATOM	11818	O	GLY	B	144	-75.513	11.189	-86.145	1.00	37.19	B	O
ATOM	11820	N	ILE	B	145	-73.646	12.015	-85.174	1.00	42.40	B	N
ATOM	11821	CA	ILE	B	145	-72.803	11.750	-86.339	1.00	42.46	B	C
ATOM	11823	CB	ILE	B	145	-71.339	12.242	-86.152	1.00	46.02	B	C
ATOM	11825	CG1	ILE	B	145	-70.606	11.437	-85.075	1.00	47.50	B	C
ATOM	11828	CD1	ILE	B	145	-69.234	12.010	-84.691	1.00	46.45	B	C
ATOM	11832	CG2	ILE	B	145	-71.320	13.746	-85.822	1.00	46.04	B	C
ATOM	11836	C	ILE	B	145	-72.878	10.277	-86.734	1.00	41.61	B	C
ATOM	11837	O	ILE	B	145	-73.111	9.407	-85.891	1.00	39.28	B	O
ATOM	11839	N	VAL	B	146	-72.726	10.033	-88.036	1.00	43.82	B	N
ATOM	11840	CA	VAL	B	146	-72.927	8.715	-88.663	1.00	41.36	B	C
ATOM	11842	CB	VAL	B	146	-74.039	8.811	-89.719	1.00	41.29	B	C
ATOM	11844	CG1	VAL	B	146	-75.374	9.091	-89.050	1.00	40.86	B	C
ATOM	11848	CG2	VAL	B	146	-73.725	9.908	-90.740	1.00	42.13	B	C
ATOM	11852	C	VAL	B	146	-71.637	8.152	-89.298	1.00	44.20	B	C
ATOM	11853	O	VAL	B	146	-71.643	7.040	-89.863	1.00	40.61	B	O
ATOM	11855	N	ASN	B	147	-70.545	8.918	-89.185	1.00	42.75	B	N
ATOM	11856	CA	ASN	B	147	-69.217	8.482	-89.615	1.00	45.26	B	C
ATOM	11858	CB	ASN	B	147	-69.083	8.591	-91.134	1.00	48.77	B	C
ATOM	11861	CG	ASN	B	147	-69.250	10.019	-91.650	1.00	50.62	B	C
ATOM	11862	OD1	ASN	B	147	-68.492	10.929	-91.291	1.00	54.60	B	O
ATOM	11863	ND2	ASN	B	147	-70.224	10.208	-92.525	1.00	46.39	B	N
ATOM	11866	C	ASN	B	147	-68.113	9.280	-88.908	1.00	47.04	B	C
ATOM	11867	O	ASN	B	147	-68.392	10.290	-88.258	1.00	48.73	B	O
ATOM	11869	N	HIS	B	148	-66.865	8.835	-89.045	1.00	48.71	B	N
ATOM	11870	CA	HIS	B	148	-65.732	9.484	-88.360	1.00	50.38	B	C
ATOM	11872	CB	HIS	B	148	-64.497	8.582	-88.348	1.00	57.68	B	C
ATOM	11875	CG	HIS	B	148	-64.676	7.340	-87.542	1.00	62.31	B	C
ATOM	11876	ND1	HIS	B	148	-65.735	7.166	-86.677	1.00	64.15	B	N
ATOM	11878	CE1	HIS	B	148	-65.640	5.981	-86.104	1.00	66.50	B	C
ATOM	11880	NE2	HIS	B	148	-64.548	5.386	-86.554	1.00	68.58	B	N
ATOM	11882	CD2	HIS	B	148	-63.925	6.217	-87.453	1.00	66.66	B	C
ATOM	11884	C	HIS	B	148	-65.339	10.839	-88.935	1.00	49.41	B	C
ATOM	11885	O	HIS	B	148	-64.560	11.567	-88.321	1.00	50.94	B	O

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ATOM	11887	N	ALA	B	149	-65.861	11.168	-90.112	1.00	48.74	B	N
ATOM	11888	CA	ALA	B	149	-65.680	12.492	-90.706	1.00	51.20	B	C
ATOM	11890	CB	ALA	B	149	-65.922	12.422	-92.223	1.00	52.48	B	C
ATOM	11894	C	ALA	B	149	-66.612	13.532	-90.069	1.00	54.00	B	C
ATOM	11895	O	ALA	B	149	-66.578	14.706	-90.441	1.00	56.94	B	O
ATOM	11897	N	GLY	B	150	-67.444	13.091	-89.123	1.00	55.74	B	N
ATOM	11898	CA	GLY	B	150	-68.348	13.967	-88.402	1.00	55.65	B	C
ATOM	11901	C	GLY	B	150	-69.509	14.508	-89.223	1.00	55.01	B	C
ATOM	11902	O	GLY	B	150	-69.939	15.643	-88.976	1.00	52.53	B	O
ATOM	11904	N	ARG	B	151	-70.042	13.723	-90.172	1.00	57.39	B	N
ATOM	11905	CA	ARG	B	151	-71.304	14.109	-90.850	1.00	58.49	B	C
ATOM	11907	CB	ARG	B	151	-71.643	13.128	-91.987	1.00	61.07	B	C
ATOM	11910	CG	ARG	B	151	-72.592	13.737	-93.019	1.00	63.83	B	C
ATOM	11913	CD	ARG	B	151	-72.192	13.397	-94.455	1.00	68.13	B	C
ATOM	11916	NE	ARG	B	151	-72.318	11.969	-94.746	1.00	70.83	B	N
ATOM	11918	CZ	ARG	B	151	-73.475	11.310	-94.855	1.00	71.35	B	C
ATOM	11919	NH1	ARG	B	151	-74.649	11.929	-94.685	1.00	69.11	B	N
ATOM	11922	NH2	ARG	B	151	-73.459	10.006	-95.121	1.00	71.36	B	N
ATOM	11925	C	ARG	B	151	-72.277	13.933	-89.663	1.00	57.96	B	C
ATOM	11926	O	ARG	B	151	-71.816	14.531	-88.426	1.00	60.24	B	O
ATOM	11928	N	ARG	B	152	-73.584	13.721	-89.870	1.00	59.61	B	N
ATOM	11929	CA	ARG	B	152	-74.684	14.639	-89.516	1.00	57.17	B	C
ATOM	11931	CB	ARG	B	152	-74.407	16.163	-89.692	1.00	64.82	B	C
ATOM	11934	CG	ARG	B	152	-73.521	16.927	-88.655	1.00	70.05	B	C
ATOM	11937	CD	ARG	B	152	-73.696	16.541	-87.139	1.00	73.03	B	C
ATOM	11940	NE	ARG	B	152	-73.119	17.564	-86.251	1.00	72.57	B	N
ATOM	11942	CZ	ARG	B	152	-73.103	17.497	-84.912	1.00	74.97	B	C
ATOM	11943	NH1	ARG	B	152	-73.627	16.450	-84.272	1.00	75.90	B	N
ATOM	11946	NH2	ARG	B	152	-72.554	18.483	-84.201	1.00	75.10	B	N
ATOM	11949	C	ARG	B	152	-75.877	14.247	-90.345	1.00	50.51	B	C
ATOM	11950	O	ARG	B	152	-76.043	14.765	-91.436	1.00	49.42	B	O
ATOM	11952	N	PRO	B	153	-76.718	13.334	-89.843	1.00	48.76	B	N
ATOM	11953	CA	PRO	B	153	-77.798	12.879	-90.701	1.00	47.73	B	C
ATOM	11955	CB	PRO	B	153	-78.277	11.609	-90.005	1.00	46.95	B	C
ATOM	11958	CG	PRO	B	153	-78.060	11.895	-88.585	1.00	48.52	B	C
ATOM	11961	CD	PRO	B	153	-76.790	12.718	-88.510	1.00	48.79	B	C
ATOM	11964	C	PRO	B	153	-78.893	13.939	-90.716	1.00	47.42	B	C
ATOM	11965	O	PRO	B	153	-78.991	14.731	-89.769	1.00	48.35	B	O
ATOM	11966	N	ASP	B	154	-79.697	13.964	-91.778	1.00	45.83	B	N
ATOM	11967	CA	ASP	B	154	-80.826	14.883	-91.835	1.00	44.80	B	C
ATOM	11969	CB	ASP	B	154	-81.108	15.315	-93.287	1.00	49.25	B	C
ATOM	11972	CG	ASP	B	154	-82.199	16.397	-93.395	1.00	50.99	B	C
ATOM	11973	OD1	ASP	B	154	-81.966	17.537	-92.929	1.00	55.17	B	O
ATOM	11974	OD2	ASP	B	154	-83.283	16.108	-93.966	1.00	46.51	B	O
ATOM	11975	C	ASP	B	154	-82.038	14.219	-91.174	1.00	40.61	B	C
ATOM	11976	O	ASP	B	154	-82.765	14.880	-90.427	1.00	37.13	B	O
ATOM	11978	N	SER	B	155	-82.241	12.919	-91.425	1.00	41.53	B	N
ATOM	11979	CA	SER	B	155	-83.307	12.150	-90.742	1.00	42.92	B	C
ATOM	11981	CB	SER	B	155	-84.191	11.404	-91.751	1.00	46.15	B	C
ATOM	11984	OG	SER	B	155	-83.450	10.418	-92.456	1.00	52.19	B	O
ATOM	11986	C	SER	B	155	-82.777	11.177	-89.648	1.00	43.65	B	C
ATOM	11987	O	SER	B	155	-81.594	10.811	-89.616	1.00	41.62	B	O
ATOM	11989	N	LEU	B	156	-83.686	10.778	-88.758	1.00	42.02	B	N
ATOM	11990	CA	LEU	B	156	-83.351	9.974	-87.578	1.00	43.01	B	C
ATOM	11992	CB	LEU	B	156	-84.564	9.844	-86.647	1.00	45.42	B	C
ATOM	11995	CG	LEU	B	156	-84.272	9.318	-85.235	1.00	44.68	B	C
ATOM	11997	CD1	LEU	B	156	-83.617	10.393	-84.387	1.00	45.15	B	C
ATOM	12001	CD2	LEU	B	156	-85.547	8.818	-84.574	1.00	46.20	B	C
ATOM	12005	C	LEU	B	156	-82.850	8.589	-87.944	1.00	42.37	B	C
ATOM	12006	O	LEU	B	156	-83.426	7.905	-88.800	1.00	38.46	B	O
ATOM	12008	N	GLN	B	157	-81.776	8.181	-87.270	1.00	44.21	B	N
ATOM	12009	CA	GLN	B	157	-81.138	6.881	-87.498	1.00	44.83	B	C
ATOM	12011	CB	GLN	B	157	-79.666	7.048	-87.887	1.00	47.81	B	C
ATOM	12014	CG	GLN	B	157	-79.441	8.104	-88.978	1.00	53.12	B	C
ATOM	12017	CD	GLN	B	157	-78.661	7.610	-90.187	1.00	55.07	B	C
ATOM	12018	OE1	GLN	B	157	-77.961	6.598	-90.139	1.00	58.56	B	O
ATOM	12019	NE2	GLN	B	157	-78.784	8.339	-91.289	1.00	55.29	B	N
ATOM	12022	C	GLN	B	157	-81.275	6.018	-86.249	1.00	42.99	B	C

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ATOM	12023	O	GLN	B	157	-81.669	6.509	-85.182	1.00	42.15	B	O
ATOM	12025	N	HIS	B	158	-80.986	4.727	-86.399	1.00	42.24	B	N
ATOM	12026	CA	HIS	B	158	-81.019	3.806	-85.271	1.00	45.10	B	C
ATOM	12028	CB	HIS	B	158	-82.449	3.290	-85.020	1.00	49.81	B	C
ATOM	12031	CG	HIS	B	158	-82.883	2.190	-85.942	1.00	54.85	B	C
ATOM	12032	ND1	HIS	B	158	-83.287	2.418	-87.241	1.00	56.07	B	N
ATOM	12034	CE1	HIS	B	158	-83.624	1.269	-87.802	1.00	57.01	B	C
ATOM	12036	NE2	HIS	B	158	-83.461	0.305	-86.913	1.00	57.46	B	N
ATOM	12038	CD2	HIS	B	158	-83.003	0.854	-85.740	1.00	57.24	B	C
ATOM	12040	C	HIS	B	158	-80.021	2.655	-85.434	1.00	45.61	B	C
ATOM	12041	O	HIS	B	158	-79.444	2.463	-86.511	1.00	46.12	B	O
ATOM	12043	N	VAL	B	159	-79.797	1.918	-84.346	1.00	43.34	B	N
ATOM	12044	CA	VAL	B	159	-78.960	0.725	-84.389	1.00	44.38	B	C
ATOM	12046	CB	VAL	B	159	-77.474	1.102	-84.334	1.00	44.03	B	C
ATOM	12048	CG1	VAL	B	159	-77.162	1.884	-83.071	1.00	45.24	B	C
ATOM	12052	CG2	VAL	B	159	-76.617	-0.135	-84.428	1.00	46.69	B	C
ATOM	12056	C	VAL	B	159	-79.309	-0.244	-83.258	1.00	43.23	B	C
ATOM	12057	O	VAL	B	159	-79.563	0.172	-82.134	1.00	39.03	B	O
ATOM	12059	N	LEU	B	160	-79.360	-1.537	-83.572	1.00	45.88	B	N
ATOM	12060	CA	LEU	B	160	-79.568	-2.565	-82.546	1.00	47.19	B	C
ATOM	12062	CB	LEU	B	160	-80.317	-3.781	-83.102	1.00	47.10	B	C
ATOM	12065	CG	LEU	B	160	-81.770	-3.929	-82.647	1.00	48.50	B	C
ATOM	12067	CD1	LEU	B	160	-82.596	-2.712	-83.056	1.00	51.12	B	C
ATOM	12071	CD2	LEU	B	160	-82.373	-5.214	-83.216	1.00	48.62	B	C
ATOM	12075	C	LEU	B	160	-78.216	-2.973	-81.957	1.00	45.51	B	C
ATOM	12076	O	LEU	B	160	-77.284	-3.307	-82.693	1.00	45.25	B	O
ATOM	12078	N	LEU	B	161	-78.118	-2.929	-80.630	1.00	43.05	B	N
ATOM	12079	CA	LEU	B	161	-76.847	-3.128	-79.937	1.00	43.33	B	C
ATOM	12081	CB	LEU	B	161	-76.320	-1.797	-79.370	1.00	40.66	B	C
ATOM	12084	CG	LEU	B	161	-76.007	-0.670	-80.372	1.00	39.23	B	C
ATOM	12086	CD1	LEU	B	161	-75.485	0.597	-79.698	1.00	35.33	B	C
ATOM	12090	CD2	LEU	B	161	-75.021	-1.134	-81.426	1.00	41.94	B	C
ATOM	12094	C	LEU	B	161	-77.040	-4.137	-78.815	1.00	43.38	B	C
ATOM	12095	O	LEU	B	161	-78.004	-4.039	-78.060	1.00	44.08	B	O
ATOM	12097	N	PRO	B	162	-76.134	-5.122	-78.706	1.00	42.97	B	N
ATOM	12098	CA	PRO	B	162	-76.227	-6.044	-77.577	1.00	40.30	B	C
ATOM	12100	CB	PRO	B	162	-75.410	-7.252	-78.043	1.00	42.85	B	C
ATOM	12103	CG	PRO	B	162	-74.385	-6.667	-78.982	1.00	43.26	B	C
ATOM	12106	CD	PRO	B	162	-74.999	-5.433	-79.596	1.00	42.14	B	C
ATOM	12109	C	PRO	B	162	-75.636	-5.434	-76.303	1.00	40.85	B	C
ATOM	12110	O	PRO	B	162	-74.555	-4.822	-76.345	1.00	36.46	B	O
ATOM	12111	N	VAL	B	163	-76.356	-5.585	-75.189	1.00	40.16	B	N
ATOM	12112	CA	VAL	B	163	-75.858	-5.159	-73.888	1.00	39.15	B	C
ATOM	12114	CB	VAL	B	163	-76.860	-5.429	-72.758	1.00	39.42	B	C
ATOM	12116	CG1	VAL	B	163	-76.280	-4.992	-71.401	1.00	35.30	B	C
ATOM	12120	CG2	VAL	B	163	-78.167	-4.704	-73.029	1.00	39.06	B	C
ATOM	12124	C	VAL	B	163	-74.595	-5.924	-73.596	1.00	42.05	B	C
ATOM	12125	O	VAL	B	163	-74.504	-7.120	-73.889	1.00	42.50	B	O
ATOM	12127	N	LEU	B	164	-73.611	-5.211	-73.045	1.00	41.87	B	N
ATOM	12128	CA	LEU	B	164	-72.334	-5.778	-72.648	1.00	37.07	B	C
ATOM	12130	CB	LEU	B	164	-71.194	-4.940	-73.221	1.00	36.93	B	C
ATOM	12133	CG	LEU	B	164	-69.805	-5.511	-73.007	1.00	39.92	B	C
ATOM	12135	CD1	LEU	B	164	-69.614	-6.697	-73.952	1.00	42.50	B	C
ATOM	12139	CD2	LEU	B	164	-68.710	-4.443	-73.208	1.00	40.56	B	C
ATOM	12143	C	LEU	B	164	-72.292	-5.755	-71.130	1.00	37.23	B	C
ATOM	12144	O	LEU	B	164	-72.620	-4.734	-70.525	1.00	38.87	B	O
ATOM	12146	N	ASP	B	165	-71.882	-6.868	-70.517	1.00	38.23	B	N
ATOM	12147	CA	ASP	B	165	-71.871	-6.977	-69.050	1.00	34.02	B	C
ATOM	12149	CB	ASP	B	165	-71.655	-8.412	-68.570	1.00	36.03	B	C
ATOM	12152	CG	ASP	B	165	-70.252	-8.923	-68.842	1.00	38.19	B	C
ATOM	12153	OD1	ASP	B	165	-70.009	-9.394	-69.978	1.00	43.23	B	O
ATOM	12154	OD2	ASP	B	165	-69.406	-8.881	-67.918	1.00	36.82	B	O
ATOM	12155	C	ASP	B	165	-70.842	-6.063	-68.410	1.00	32.69	B	C
ATOM	12156	O	ASP	B	165	-69.835	-5.723	-69.015	1.00	32.25	B	O
ATOM	12158	N	ARG	B	166	-71.108	-5.686	-67.166	1.00	29.30	B	N
ATOM	12159	CA	ARG	B	166	-70.377	-4.605	-66.513	1.00	30.62	B	C
ATOM	12161	CB	ARG	B	166	-71.082	-4.180	-65.219	1.00	30.40	B	C
ATOM	12164	CG	ARG	B	166	-70.631	-2.810	-64.728	1.00	29.09	B	C

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ATOM	12167	CD	ARG	B	166	-71.502	-2.282	-63.605	1.00	27.01	B	C
ATOM	12170	NE	ARG	B	166	-72.804	-1.876	-64.113	1.00	29.92	B	N
ATOM	12172	CZ	ARG	B	166	-73.944	-2.557	-63.947	1.00	26.47	B	C
ATOM	12173	NH1	ARG	B	166	-73.976	-3.695	-63.266	1.00	20.42	B	N
ATOM	12176	NH2	ARG	B	166	-75.066	-2.083	-64.473	1.00	24.25	B	N
ATOM	12179	C	ARG	B	166	-68.922	-4.944	-66.250	1.00	32.38	B	C
ATOM	12180	O	ARG	B	166	-68.064	-4.085	-66.363	1.00	33.39	B	O
ATOM	12182	N	ALA	B	167	-68.663	-6.206	-65.933	1.00	30.31	B	N
ATOM	12183	CA	ALA	B	167	-67.320	-6.674	-65.663	1.00	29.49	B	C
ATOM	12185	CB	ALA	B	167	-67.355	-8.078	-65.107	1.00	26.57	B	C
ATOM	12189	C	ALA	B	167	-66.424	-6.583	-66.907	1.00	30.01	B	C
ATOM	12190	O	ALA	B	167	-65.313	-6.035	-66.824	1.00	35.75	B	O
ATOM	12192	N	THR	B	168	-66.896	-7.090	-68.050	1.00	30.19	B	N
ATOM	12193	CA	THR	B	168	-66.171	-6.890	-69.304	1.00	32.88	B	C
ATOM	12195	CB	THR	B	168	-66.893	-7.539	-70.486	1.00	33.39	B	C
ATOM	12197	OG1	THR	B	168	-67.160	-8.911	-70.175	1.00	38.53	B	O
ATOM	12199	CG2	THR	B	168	-66.028	-7.446	-71.746	1.00	29.37	B	C
ATOM	12203	C	THR	B	168	-65.985	-5.396	-69.606	1.00	35.71	B	C
ATOM	12204	O	THR	B	168	-64.930	-4.978	-70.062	1.00	35.55	B	O
ATOM	12206	N	CYS	B	169	-67.024	-4.605	-69.358	1.00	36.56	B	N
ATOM	12207	CA	CYS	B	169	-66.978	-3.182	-69.645	1.00	35.15	B	C
ATOM	12209	CB	CYS	B	169	-68.378	-2.581	-69.532	1.00	29.17	B	C
ATOM	12212	SG	CYS	B	169	-68.513	-1.096	-70.505	1.00	32.36	B	S
ATOM	12214	C	CYS	B	169	-65.974	-2.435	-68.744	1.00	36.04	B	C
ATOM	12215	O	CYS	B	169	-65.404	-1.421	-69.143	1.00	35.14	B	O
ATOM	12217	N	ASN	B	170	-65.748	-2.967	-67.549	1.00	36.17	B	N
ATOM	12218	CA	ASN	B	170	-64.801	-2.405	-66.590	1.00	35.74	B	C
ATOM	12220	CB	ASN	B	170	-65.352	-2.584	-65.164	1.00	31.91	B	C
ATOM	12223	CG	ASN	B	170	-66.241	-1.419	-64.733	1.00	28.26	B	C
ATOM	12224	OD1	ASN	B	170	-66.150	-0.340	-65.293	1.00	27.73	B	O
ATOM	12225	ND2	ASN	B	170	-67.082	-1.632	-63.726	1.00	23.93	B	N
ATOM	12228	C	ASN	B	170	-63.356	-2.945	-66.689	1.00	37.03	B	C
ATOM	12229	O	ASN	B	170	-62.489	-2.523	-65.918	1.00	36.38	B	O
ATOM	12231	N	ARG	B	171	-63.078	-3.829	-67.647	1.00	33.09	B	N
ATOM	12232	CA	ARG	B	171	-61.693	-4.221	-67.921	1.00	35.21	B	C
ATOM	12234	CB	ARG	B	171	-61.600	-5.254	-69.034	1.00	33.47	B	C
ATOM	12237	CG	ARG	B	171	-62.351	-6.543	-68.747	1.00	33.92	B	C
ATOM	12240	CD	ARG	B	171	-61.746	-7.768	-69.389	1.00	36.43	B	C
ATOM	12243	NE	ARG	B	171	-60.897	-7.483	-70.547	1.00	37.04	B	N
ATOM	12245	CZ	ARG	B	171	-61.125	-7.865	-71.798	1.00	40.52	B	C
ATOM	12246	NH1	ARG	B	171	-60.245	-7.545	-72.738	1.00	43.31	B	N
ATOM	12249	NH2	ARG	B	171	-62.206	-8.562	-72.129	1.00	44.51	B	N
ATOM	12252	C	ARG	B	171	-60.871	-2.991	-68.273	1.00	35.84	B	C
ATOM	12253	O	ARG	B	171	-61.411	-1.974	-68.715	1.00	33.94	B	O
ATOM	12255	N	ARG	B	172	-59.566	-3.087	-68.070	1.00	35.33	B	N
ATOM	12256	CA	ARG	B	172	-58.676	-1.943	-68.261	1.00	34.55	B	C
ATOM	12258	CB	ARG	B	172	-57.303	-2.264	-67.668	1.00	33.46	B	C
ATOM	12261	CG	ARG	B	172	-56.541	-3.397	-68.347	1.00	29.86	B	C
ATOM	12264	CD	ARG	B	172	-55.317	-3.712	-67.563	1.00	30.99	B	C
ATOM	12267	NE	ARG	B	172	-55.619	-4.506	-66.377	1.00	33.73	B	N
ATOM	12269	CZ	ARG	B	172	-54.825	-4.628	-65.318	1.00	28.79	B	C
ATOM	12270	NH1	ARG	B	172	-53.668	-3.979	-65.246	1.00	33.93	B	N
ATOM	12273	NH2	ARG	B	172	-55.199	-5.395	-64.313	1.00	27.90	B	N
ATOM	12276	C	ARG	B	172	-58.625	-1.510	-69.729	1.00	34.80	B	C
ATOM	12277	O	ARG	B	172	-58.479	-0.333	-70.026	1.00	32.28	B	O
ATOM	12279	N	THR	B	173	-58.811	-2.479	-70.620	1.00	34.58	B	N
ATOM	12280	CA	THR	B	173	-58.883	-2.293	-72.069	1.00	32.42	B	C
ATOM	12282	CB	THR	B	173	-59.075	-3.679	-72.716	1.00	29.64	B	C
ATOM	12284	OG1	THR	B	173	-58.385	-4.666	-71.932	1.00	30.92	B	O
ATOM	12286	CG2	THR	B	173	-58.582	-3.717	-74.148	1.00	24.42	B	C
ATOM	12290	C	THR	B	173	-60.044	-1.417	-72.500	1.00	36.72	B	C
ATOM	12291	O	THR	B	173	-59.983	-0.763	-73.543	1.00	39.83	B	O
ATOM	12293	N	HIS	B	174	-61.086	-1.422	-71.675	1.00	38.61	B	N
ATOM	12294	CA	HIS	B	174	-62.339	-0.734	-71.941	1.00	34.67	B	C
ATOM	12296	CB	HIS	B	174	-63.501	-1.735	-71.806	1.00	37.11	B	C
ATOM	12299	CG	HIS	B	174	-63.311	-2.970	-72.635	1.00	34.36	B	C
ATOM	12300	ND1	HIS	B	174	-63.763	-4.210	-72.245	1.00	36.67	B	N
ATOM	12302	CE1	HIS	B	174	-63.442	-5.107	-73.162	1.00	36.45	B	C

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ATOM	12304	NE2	HIS	B	174	-62.773	-4.495	-74.124	1.00	37.93	B	N
ATOM	12306	CD2	HIS	B	174	-62.677	-3.159	-73.816	1.00	36.88	B	C
ATOM	12308	C	HIS	B	174	-62.464	0.493	-71.046	1.00	33.22	B	C
ATOM	12309	O	HIS	B	174	-61.731	1.450	-71.273	1.00	38.91	B	O
ATOM	12311	N	HIS	B	175	-63.347	0.487	-70.042	1.00	36.22	B	N
ATOM	12312	CA	HIS	B	175	-63.592	1.705	-69.223	1.00	34.60	B	C
ATOM	12314	CB	HIS	B	175	-65.073	2.038	-69.202	1.00	31.00	B	C
ATOM	12317	CG	HIS	B	175	-65.608	2.356	-70.553	1.00	25.30	B	C
ATOM	12318	ND1	HIS	B	175	-65.108	3.387	-71.315	1.00	19.59	B	N
ATOM	12320	CE1	HIS	B	175	-65.731	3.412	-72.474	1.00	25.74	B	C
ATOM	12322	NE2	HIS	B	175	-66.609	2.423	-72.496	1.00	27.94	B	N
ATOM	12324	CD2	HIS	B	175	-66.542	1.743	-71.307	1.00	25.09	B	C
ATOM	12326	C	HIS	B	175	-63.025	1.679	-67.806	1.00	35.94	B	C
ATOM	12327	O	HIS	B	175	-63.238	2.617	-67.010	1.00	30.61	B	O
ATOM	12329	N	ASP	B	176	-62.303	0.598	-67.514	1.00	35.25	B	N
ATOM	12330	CA	ASP	B	176	-61.358	0.550	-66.407	1.00	36.94	B	C
ATOM	12332	CB	ASP	B	176	-60.179	1.447	-66.760	1.00	33.23	B	C
ATOM	12335	CG	ASP	B	176	-58.987	1.238	-65.863	1.00	34.84	B	C
ATOM	12336	OD1	ASP	B	176	-58.915	0.242	-65.108	1.00	26.67	B	O
ATOM	12337	OD2	ASP	B	176	-58.109	2.108	-65.924	1.00	36.62	B	O
ATOM	12338	C	ASP	B	176	-61.961	0.937	-65.035	1.00	38.13	B	C
ATOM	12339	O	ASP	B	176	-61.390	1.746	-64.292	1.00	33.59	B	O
ATOM	12341	N	GLY	B	177	-63.101	0.337	-64.698	1.00	35.01	B	N
ATOM	12342	CA	GLY	B	177	-63.747	0.562	-63.404	1.00	33.82	B	C
ATOM	12345	C	GLY	B	177	-64.709	1.746	-63.345	1.00	34.35	B	C
ATOM	12346	O	GLY	B	177	-65.380	1.969	-62.335	1.00	35.17	B	O
ATOM	12348	N	ALA	B	178	-64.791	2.504	-64.439	1.00	34.01	B	N
ATOM	12349	CA	ALA	B	178	-65.620	3.705	-64.484	1.00	33.05	B	C
ATOM	12351	CB	ALA	B	178	-65.215	4.573	-65.645	1.00	26.36	B	C
ATOM	12355	C	ALA	B	178	-67.125	3.403	-64.562	1.00	34.79	B	C
ATOM	12356	O	ALA	B	178	-67.948	4.294	-64.348	1.00	34.67	B	O
ATOM	12358	N	ILE	B	179	-67.470	2.152	-64.873	1.00	34.11	B	N
ATOM	12359	CA	ILE	B	179	-68.863	1.748	-65.050	1.00	33.19	B	C
ATOM	12361	CB	ILE	B	179	-69.059	0.654	-66.173	1.00	29.54	B	C
ATOM	12363	CG1	ILE	B	179	-68.203	0.952	-67.420	1.00	27.31	B	C
ATOM	12366	CD1	ILE	B	179	-68.634	2.192	-68.236	1.00	20.12	B	C
ATOM	12370	CG2	ILE	B	179	-70.539	0.538	-66.562	1.00	20.08	B	C
ATOM	12374	C	ILE	B	179	-69.457	1.288	-63.707	1.00	31.94	B	C
ATOM	12375	O	ILE	B	179	-69.128	0.226	-63.187	1.00	30.77	B	O
ATOM	12377	N	THR	B	180	-70.314	2.139	-63.153	1.00	31.52	B	N
ATOM	12378	CA	THR	B	180	-70.964	1.894	-61.871	1.00	35.50	B	C
ATOM	12380	CB	THR	B	180	-71.390	3.219	-61.160	1.00	32.61	B	C
ATOM	12382	OG1	THR	B	180	-72.426	3.853	-61.920	1.00	35.70	B	O
ATOM	12384	CG2	THR	B	180	-70.196	4.198	-60.944	1.00	26.05	B	C
ATOM	12388	C	THR	B	180	-72.234	1.067	-62.054	1.00	40.34	B	C
ATOM	12389	O	THR	B	180	-72.652	0.754	-63.183	1.00	38.49	B	O
ATOM	12391	N	GLU	B	181	-72.883	0.759	-60.944	1.00	42.21	B	N
ATOM	12392	CA	GLU	B	181	-74.161	0.066	-61.004	1.00	45.87	B	C
ATOM	12394	CB	GLU	B	181	-74.551	-0.452	-59.619	1.00	48.59	B	C
ATOM	12397	CG	GLU	B	181	-73.815	-1.751	-59.260	1.00	56.25	B	C
ATOM	12400	CD	GLU	B	181	-74.201	-2.332	-57.893	1.00	58.77	B	C
ATOM	12401	OE1	GLU	B	181	-73.776	-1.754	-56.857	1.00	58.59	B	O
ATOM	12402	OE2	GLU	B	181	-74.905	-3.383	-57.868	1.00	61.60	B	O
ATOM	12403	C	GLU	B	181	-75.289	0.902	-61.634	1.00	42.30	B	C
ATOM	12404	O	GLU	B	181	-76.330	0.350	-61.965	1.00	39.41	B	O
ATOM	12406	N	ARG	B	182	-75.062	2.200	-61.858	1.00	41.47	B	N
ATOM	12407	CA	ARG	B	182	-76.084	3.091	-62.431	1.00	42.72	B	C
ATOM	12409	CB	ARG	B	182	-76.196	4.405	-61.633	1.00	43.22	B	C
ATOM	12412	CG	ARG	B	182	-75.718	4.301	-60.199	1.00	47.49	B	C
ATOM	12415	CD	ARG	B	182	-76.538	5.084	-59.184	1.00	54.41	B	C
ATOM	12418	NE	ARG	B	182	-76.541	4.375	-57.893	1.00	61.75	B	N
ATOM	12420	CZ	ARG	B	182	-75.492	4.257	-57.061	1.00	63.81	B	C
ATOM	12421	NH1	ARG	B	182	-74.309	4.810	-57.342	1.00	63.67	B	N
ATOM	12424	NH2	ARG	B	182	-75.622	3.575	-55.922	1.00	62.00	B	N
ATOM	12427	C	ARG	B	182	-75.800	3.401	-63.897	1.00	35.89	B	C
ATOM	12428	O	ARG	B	182	-76.465	4.234	-64.499	1.00	36.81	B	O
ATOM	12430	N	LEU	B	183	-74.784	2.745	-64.450	1.00	35.25	B	N
ATOM	12431	CA	LEU	B	183	-74.434	2.866	-65.861	1.00	37.01	B	C

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ATOM	12433	CB	LEU	B	183	-72.997	3.407	-66.035	1.00	31.27	B	C
ATOM	12436	CG	LEU	B	183	-72.694	4.858	-65.628	1.00	29.14	B	C
ATOM	12438	CD1	LEU	B	183	-71.184	5.119	-65.671	1.00	28.88	B	C
ATOM	12442	CD2	LEU	B	183	-73.426	5.859	-66.510	1.00	24.19	B	C
ATOM	12446	C	LEU	B	183	-74.525	1.468	-66.453	1.00	35.75	B	C
ATOM	12447	O	LEU	B	183	-74.328	0.489	-65.745	1.00	38.90	B	O
ATOM	12449	N	MET	B	184	-74.832	1.382	-67.739	1.00	35.46	B	N
ATOM	12450	CA	MET	B	184	-74.805	0.115	-68.457	1.00	36.84	B	C
ATOM	12452	CB	MET	B	184	-76.225	-0.394	-68.745	1.00	36.86	B	C
ATOM	12455	CG	MET	B	184	-77.106	0.569	-69.526	1.00	35.89	B	C
ATOM	12458	SD	MET	B	184	-78.784	-0.044	-69.803	1.00	36.03	B	S
ATOM	12459	CE	MET	B	184	-78.511	-1.456	-70.877	1.00	33.32	B	C
ATOM	12463	C	MET	B	184	-74.020	0.308	-69.741	1.00	32.53	B	C
ATOM	12464	O	MET	B	184	-73.827	1.423	-70.194	1.00	32.30	B	O
ATOM	12466	N	CYS	B	185	-73.568	-0.791	-70.316	1.00	33.26	B	N
ATOM	12467	CA	CYS	B	185	-72.748	-0.748	-71.518	1.00	36.64	B	C
ATOM	12469	CB	CYS	B	185	-71.367	-1.357	-71.235	1.00	38.17	B	C
ATOM	12472	SG	CYS	B	185	-70.348	-0.403	-70.093	1.00	36.22	B	S
ATOM	12474	C	CYS	B	185	-73.400	-1.505	-72.666	1.00	35.20	B	C
ATOM	12475	O	CYS	B	185	-74.161	-2.452	-72.447	1.00	35.95	B	O
ATOM	12477	N	ALA	B	186	-73.100	-1.069	-73.885	1.00	34.74	B	N
ATOM	12478	CA	ALA	B	186	-73.452	-1.821	-75.083	1.00	37.51	B	C
ATOM	12480	CB	ALA	B	186	-74.584	-1.148	-75.844	1.00	38.12	B	C
ATOM	12484	C	ALA	B	186	-72.216	-1.936	-75.961	1.00	40.78	B	C
ATOM	12485	O	ALA	B	186	-71.304	-1.117	-75.875	1.00	43.21	B	O
ATOM	12487	N	GLU	B	187	-72.182	-2.964	-76.800	1.00	41.62	B	N
ATOM	12488	CA	GLU	B	187	-71.062	-3.155	-77.712	1.00	44.40	B	C
ATOM	12490	CB	GLU	B	187	-71.150	-4.506	-78.442	1.00	47.65	B	C
ATOM	12493	CG	GLU	B	187	-70.680	-5.694	-77.577	1.00	50.81	B	C
ATOM	12496	CD	GLU	B	187	-70.902	-7.060	-78.223	1.00	51.21	B	C
ATOM	12497	OE1	GLU	B	187	-70.622	-7.203	-79.437	1.00	55.99	B	O
ATOM	12498	OE2	GLU	B	187	-71.355	-7.990	-77.508	1.00	49.28	B	O
ATOM	12499	C	GLU	B	187	-70.961	-1.997	-78.698	1.00	43.03	B	C
ATOM	12500	O	GLU	B	187	-71.956	-1.332	-79.015	1.00	39.30	B	O
ATOM	12502	N	SER	B	188	-69.748	-1.758	-79.173	1.00	43.50	B	N
ATOM	12503	CA	SER	B	188	-69.471	-0.595	-79.987	1.00	43.24	B	C
ATOM	12505	CB	SER	B	188	-68.762	0.458	-79.137	1.00	37.43	B	C
ATOM	12508	OG	SER	B	188	-67.499	-0.013	-78.729	1.00	35.54	B	O
ATOM	12510	C	SER	B	188	-68.637	-0.904	-81.228	1.00	45.04	B	C
ATOM	12511	O	SER	B	188	-68.133	0.022	-81.852	1.00	47.84	B	O
ATOM	12513	N	ASN	B	189	-68.488	-2.176	-81.604	1.00	47.53	B	N
ATOM	12514	CA	ASN	B	189	-67.661	-2.522	-82.766	1.00	49.22	B	C
ATOM	12516	CB	ASN	B	189	-67.366	-4.026	-82.827	1.00	47.70	B	C
ATOM	12519	CG	ASN	B	189	-66.282	-4.376	-83.852	1.00	47.91	B	C
ATOM	12520	OD1	ASN	B	189	-65.480	-3.533	-84.260	1.00	44.43	B	O
ATOM	12521	ND2	ASN	B	189	-66.257	-5.632	-84.262	1.00	53.53	B	N
ATOM	12524	C	ASN	B	189	-68.309	-2.044	-84.071	1.00	49.58	B	C
ATOM	12525	O	ASN	B	189	-69.210	-2.697	-84.610	1.00	45.38	B	O
ATOM	12527	N	ARG	B	190	-67.854	-0.878	-84.539	1.00	51.66	B	N
ATOM	12528	CA	ARG	B	190	-68.330	-0.238	-85.781	1.00	58.55	B	C
ATOM	12530	CB	ARG	B	190	-67.776	-0.979	-87.000	1.00	64.58	B	C
ATOM	12533	CG	ARG	B	190	-66.236	-1.136	-86.973	1.00	68.80	B	C
ATOM	12536	CD	ARG	B	190	-65.720	-2.046	-88.090	1.00	70.00	B	C
ATOM	12539	NE	ARG	B	190	-66.510	-3.277	-88.216	1.00	73.59	B	N
ATOM	12541	CZ	ARG	B	190	-66.270	-4.241	-89.104	1.00	73.84	B	C
ATOM	12542	NH1	ARG	B	190	-65.239	-4.148	-89.944	1.00	75.21	B	N
ATOM	12545	NH2	ARG	B	190	-67.059	-5.316	-89.139	1.00	72.16	B	N
ATOM	12548	C	ARG	B	190	-69.867	-0.043	-85.867	1.00	56.85	B	C
ATOM	12549	O	ARG	B	190	-70.430	0.141	-86.948	1.00	56.83	B	O
ATOM	12551	N	ARG	B	191	-70.515	-0.070	-84.705	1.00	55.94	B	N
ATOM	12552	CA	ARG	B	191	-71.942	0.179	-84.555	1.00	56.94	B	C
ATOM	12554	CB	ARG	B	191	-72.722	-1.131	-84.599	1.00	63.10	B	C
ATOM	12557	CG	ARG	B	191	-72.895	-1.741	-85.984	1.00	68.85	B	C
ATOM	12560	CD	ARG	B	191	-72.805	-3.252	-85.899	1.00	73.46	B	C
ATOM	12563	NE	ARG	B	191	-73.602	-3.933	-86.913	1.00	78.73	B	N
ATOM	12565	CZ	ARG	B	191	-73.714	-5.258	-87.007	1.00	80.89	B	C
ATOM	12566	NH1	ARG	B	191	-73.074	-6.058	-86.150	1.00	80.31	B	N
ATOM	12569	NH2	ARG	B	191	-74.469	-5.790	-87.965	1.00	80.66	B	N

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ATOM	12572	C	ARG	B	191	-72.101	0.804	-83.178	1.00	51.03	B	C
ATOM	12573	O	ARG	B	191	-71.781	0.154	-82.179	1.00	53.18	B	O
ATOM	12575	N	ASP	B	192	-72.573	2.046	-83.095	1.00	45.22	B	N
ATOM	12576	CA	ASP	B	192	-72.477	2.760	-81.823	1.00	44.57	B	C
ATOM	12578	CB	ASP	B	192	-70.997	3.124	-81.584	1.00	43.63	B	C
ATOM	12581	CG	ASP	B	192	-70.655	3.415	-80.108	1.00	43.13	B	C
ATOM	12582	OD1	ASP	B	192	-71.399	3.023	-79.157	1.00	35.38	B	O
ATOM	12583	OD2	ASP	B	192	-69.586	4.043	-79.925	1.00	42.83	B	O
ATOM	12584	C	ASP	B	192	-73.338	4.024	-81.708	1.00	41.14	B	C
ATOM	12585	O	ASP	B	192	-73.794	4.595	-82.715	1.00	38.25	B	O
ATOM	12587	N	SER	B	193	-73.568	4.416	-80.451	1.00	41.64	B	N
ATOM	12588	CA	SER	B	193	-73.946	5.786	-80.082	1.00	44.01	B	C
ATOM	12590	CB	SER	B	193	-74.255	5.908	-78.581	1.00	46.21	B	C
ATOM	12593	OG	SER	B	193	-75.577	5.501	-78.287	1.00	50.05	B	O
ATOM	12595	C	SER	B	193	-72.771	6.682	-80.380	1.00	47.25	B	C
ATOM	12596	O	SER	B	193	-71.624	6.248	-80.374	1.00	47.84	B	O
ATOM	12598	N	CYS	B	194	-73.037	7.952	-80.596	1.00	52.09	B	N
ATOM	12599	CA	CYS	B	194	-72.009	8.805	-81.132	1.00	54.41	B	C
ATOM	12601	CB	CYS	B	194	-71.965	8.594	-82.646	1.00	58.20	B	C
ATOM	12604	SG	CYS	B	194	-70.337	8.642	-83.371	1.00	60.60	B	S
ATOM	12606	C	CYS	B	194	-72.296	10.259	-80.772	1.00	53.73	B	C
ATOM	12607	O	CYS	B	194	-73.331	10.563	-80.179	1.00	53.47	B	O
ATOM	12609	N	LYS	B	195	-71.373	11.146	-81.128	1.00	54.45	B	N
ATOM	12610	CA	LYS	B	195	-71.512	12.573	-80.853	1.00	51.86	B	C
ATOM	12612	CB	LYS	B	195	-70.304	13.338	-81.417	1.00	53.44	B	C
ATOM	12615	CG	LYS	B	195	-70.128	14.760	-80.867	1.00	56.86	B	C
ATOM	12618	CD	LYS	B	195	-68.651	15.092	-80.586	1.00	59.99	B	C
ATOM	12621	CE	LYS	B	195	-68.206	14.729	-79.134	1.00	64.78	B	C
ATOM	12624	NZ	LYS	B	195	-68.449	13.303	-78.703	1.00	65.86	B	N
ATOM	12628	C	LYS	B	195	-72.829	13.120	-81.432	1.00	46.35	B	C
ATOM	12629	O	LYS	B	195	-73.071	13.051	-82.636	1.00	42.38	B	O
ATOM	12631	N	GLY	B	196	-73.684	13.651	-80.564	1.00	41.90	B	N
ATOM	12632	CA	GLY	B	196	-74.995	14.128	-80.979	1.00	38.15	B	C
ATOM	12635	C	GLY	B	196	-76.130	13.172	-80.663	1.00	35.92	B	C
ATOM	12636	O	GLY	B	196	-77.305	13.543	-80.828	1.00	34.70	B	O
ATOM	12638	N	ASP	B	197	-75.802	11.955	-80.214	1.00	32.69	B	N
ATOM	12639	CA	ASP	B	197	-76.820	10.978	-79.787	1.00	35.79	B	C
ATOM	12641	CB	ASP	B	197	-76.453	9.571	-80.256	1.00	39.54	B	C
ATOM	12644	CG	ASP	B	197	-76.266	9.480	-81.776	1.00	42.63	B	C
ATOM	12645	OD1	ASP	B	197	-77.212	9.823	-82.515	1.00	40.35	B	O
ATOM	12646	OD2	ASP	B	197	-75.175	9.057	-82.230	1.00	43.94	B	O
ATOM	12647	C	ASP	B	197	-77.051	11.018	-78.261	1.00	32.06	B	C
ATOM	12648	O	ASP	B	197	-78.002	10.419	-77.759	1.00	31.68	B	O
ATOM	12650	N	SER	B	198	-76.204	11.753	-77.543	1.00	31.56	B	N
ATOM	12651	CA	SER	B	198	-76.363	11.980	-76.096	1.00	34.61	B	C
ATOM	12653	CB	SER	B	198	-75.455	13.115	-75.637	1.00	33.79	B	C
ATOM	12656	OG	SER	B	198	-74.147	12.957	-76.139	1.00	41.73	B	O
ATOM	12658	C	SER	B	198	-77.777	12.376	-75.728	1.00	34.86	B	C
ATOM	12659	O	SER	B	198	-78.417	13.126	-76.454	1.00	36.24	B	O
ATOM	12661	N	GLY	B	199	-78.261	11.893	-74.591	1.00	37.18	B	N
ATOM	12662	CA	GLY	B	199	-79.613	12.207	-74.147	1.00	36.50	B	C
ATOM	12665	C	GLY	B	199	-80.656	11.287	-74.738	1.00	34.86	B	C
ATOM	12666	O	GLY	B	199	-81.738	11.146	-74.173	1.00	33.48	B	O
ATOM	12668	N	GLY	B	200	-80.339	10.653	-75.866	1.00	36.89	B	N
ATOM	12669	CA	GLY	B	200	-81.287	9.800	-76.578	1.00	35.23	B	C
ATOM	12672	C	GLY	B	200	-81.527	8.471	-75.884	1.00	38.06	B	C
ATOM	12673	O	GLY	B	200	-80.829	8.142	-74.924	1.00	38.35	B	O
ATOM	12675	N	PRO	B	201	-82.503	7.685	-76.382	1.00	39.31	B	N
ATOM	12676	CA	PRO	B	201	-82.981	6.468	-75.732	1.00	37.22	B	C
ATOM	12678	CB	PRO	B	201	-84.413	6.379	-76.227	1.00	38.30	B	C
ATOM	12681	CG	PRO	B	201	-84.343	6.919	-77.609	1.00	39.39	B	C
ATOM	12684	CD	PRO	B	201	-83.224	7.925	-77.645	1.00	38.86	B	C
ATOM	12687	C	PRO	B	201	-82.245	5.171	-76.117	1.00	33.96	B	C
ATOM	12688	O	PRO	B	201	-81.924	4.956	-77.286	1.00	31.96	B	O
ATOM	12689	N	LEU	B	202	-81.958	4.343	-75.115	1.00	32.44	B	N
ATOM	12690	CA	LEU	B	202	-81.652	2.942	-75.330	1.00	34.89	B	C
ATOM	12692	CB	LEU	B	202	-80.398	2.502	-74.568	1.00	33.21	B	C
ATOM	12695	CG	LEU	B	202	-79.889	1.081	-74.836	1.00	31.27	B	C

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ATOM	12697	CD1	LEU	B	202	-79.192	0.991	-76.188	1.00	29.13	B	C
ATOM	12701	CD2	LEU	B	202	-78.956	0.639	-73.727	1.00	32.36	B	C
ATOM	12705	C	LEU	B	202	-82.880	2.174	-74.860	1.00	34.34	B	C
ATOM	12706	O	LEU	B	202	-83.219	2.188	-73.673	1.00	31.58	B	O
ATOM	12708	N	VAL	B	203	-83.541	1.513	-75.810	1.00	38.47	B	N
ATOM	12709	CA	VAL	B	203	-84.815	0.853	-75.585	1.00	37.22	B	C
ATOM	12711	CB	VAL	B	203	-85.822	1.299	-76.667	1.00	36.35	B	C
ATOM	12713	CG1	VAL	B	203	-87.144	0.508	-76.577	1.00	31.97	B	C
ATOM	12717	CG2	VAL	B	203	-86.048	2.798	-76.581	1.00	32.51	B	C
ATOM	12721	C	VAL	B	203	-84.609	-0.650	-75.685	1.00	38.44	B	C
ATOM	12722	O	VAL	B	203	-84.228	-1.142	-76.753	1.00	39.33	B	O
ATOM	12724	N	CYS	B	204	-84.843	-1.371	-74.586	1.00	41.39	B	N
ATOM	12725	CA	CYS	B	204	-84.751	-2.841	-74.586	1.00	45.36	B	C
ATOM	12727	CB	CYS	B	204	-83.666	-3.353	-73.620	1.00	45.09	B	C
ATOM	12730	SG	CYS	B	204	-82.105	-2.433	-73.624	1.00	39.44	B	S
ATOM	12732	C	CYS	B	204	-86.090	-3.479	-74.223	1.00	48.72	B	C
ATOM	12733	O	CYS	B	204	-86.550	-3.363	-73.073	1.00	48.17	B	O
ATOM	12735	N	GLY	B	205	-86.687	-4.160	-75.210	1.00	50.48	B	N
ATOM	12736	CA	GLY	B	205	-87.989	-4.807	-75.065	1.00	51.77	B	C
ATOM	12739	C	GLY	B	205	-89.138	-3.824	-74.940	1.00	53.16	B	C
ATOM	12740	O	GLY	B	205	-90.004	-3.980	-74.067	1.00	51.62	B	O
ATOM	12742	N	GLY	B	206	-89.130	-2.799	-75.794	1.00	53.35	B	N
ATOM	12743	CA	GLY	B	206	-90.185	-1.776	-75.794	1.00	51.89	B	C
ATOM	12746	C	GLY	B	206	-90.209	-0.785	-74.633	1.00	51.08	B	C
ATOM	12747	O	GLY	B	206	-91.023	0.148	-74.649	1.00	49.75	B	O
ATOM	12749	N	VAL	B	207	-89.334	-0.974	-73.639	1.00	50.58	B	N
ATOM	12750	CA	VAL	B	207	-89.191	-0.052	-72.501	1.00	48.25	B	C
ATOM	12752	CB	VAL	B	207	-89.258	-0.812	-71.153	1.00	49.39	B	C
ATOM	12754	CG1	VAL	B	207	-89.030	0.141	-69.974	1.00	46.80	B	C
ATOM	12758	CG2	VAL	B	207	-90.589	-1.540	-71.017	1.00	48.67	B	C
ATOM	12762	C	VAL	B	207	-87.853	0.687	-72.584	1.00	45.96	B	C
ATOM	12763	O	VAL	B	207	-86.867	0.116	-73.031	1.00	44.17	B	O
ATOM	12765	N	LEU	B	208	-87.842	1.954	-72.164	1.00	42.89	B	N
ATOM	12766	CA	LEU	B	208	-86.608	2.738	-72.004	1.00	41.47	B	C
ATOM	12768	CB	LEU	B	208	-86.940	4.203	-71.727	1.00	39.60	B	C
ATOM	12771	CG	LEU	B	208	-85.789	5.202	-71.618	1.00	38.74	B	C
ATOM	12773	CD1	LEU	B	208	-85.295	5.668	-72.982	1.00	36.12	B	C
ATOM	12777	CD2	LEU	B	208	-86.246	6.386	-70.793	1.00	40.17	B	C
ATOM	12781	C	LEU	B	208	-85.796	2.179	-70.840	1.00	43.99	B	C
ATOM	12782	O	LEU	B	208	-86.299	2.073	-69.716	1.00	46.50	B	O
ATOM	12784	N	GLU	B	209	-84.544	1.818	-71.119	1.00	41.65	B	N
ATOM	12785	CA	GLU	B	209	-83.639	1.279	-70.105	1.00	39.77	B	C
ATOM	12787	CB	GLU	B	209	-83.127	-0.095	-70.544	1.00	41.67	B	C
ATOM	12790	CG	GLU	B	209	-84.181	-1.205	-70.491	1.00	43.10	B	C
ATOM	12793	CD	GLU	B	209	-84.478	-1.705	-69.082	1.00	43.79	B	C
ATOM	12794	OE1	GLU	B	209	-83.726	-1.385	-68.141	1.00	38.71	B	O
ATOM	12795	OE2	GLU	B	209	-85.470	-2.444	-68.919	1.00	49.82	B	O
ATOM	12796	C	GLU	B	209	-82.455	2.206	-69.808	1.00	39.44	B	C
ATOM	12797	O	GLU	B	209	-81.933	2.203	-68.689	1.00	37.61	B	O
ATOM	12799	N	GLY	B	210	-82.033	2.976	-70.807	1.00	38.68	B	N
ATOM	12800	CA	GLY	B	210	-80.891	3.860	-70.663	1.00	38.23	B	C
ATOM	12803	C	GLY	B	210	-80.969	5.120	-71.501	1.00	35.44	B	C
ATOM	12804	O	GLY	B	210	-81.697	5.190	-72.494	1.00	35.18	B	O
ATOM	12806	N	VAL	B	211	-80.214	6.123	-71.066	1.00	36.90	B	N
ATOM	12807	CA	VAL	B	211	-80.085	7.396	-71.766	1.00	35.87	B	C
ATOM	12809	CB	VAL	B	211	-80.488	8.624	-70.867	1.00	31.92	B	C
ATOM	12811	CG1	VAL	B	211	-80.375	9.929	-71.633	1.00	26.28	B	C
ATOM	12815	CG2	VAL	B	211	-81.921	8.463	-70.311	1.00	27.99	B	C
ATOM	12819	C	VAL	B	211	-78.627	7.468	-72.200	1.00	34.38	B	C
ATOM	12820	O	VAL	B	211	-77.718	7.281	-71.390	1.00	31.06	B	O
ATOM	12822	N	VAL	B	212	-78.410	7.677	-73.492	1.00	36.38	B	N
ATOM	12823	CA	VAL	B	212	-77.068	7.769	-74.018	1.00	41.41	B	C
ATOM	12825	CB	VAL	B	212	-77.051	8.196	-75.506	1.00	37.24	B	C
ATOM	12827	CG1	VAL	B	212	-75.629	8.415	-75.977	1.00	36.89	B	C
ATOM	12831	CG2	VAL	B	212	-77.749	7.155	-76.368	1.00	33.32	B	C
ATOM	12835	C	VAL	B	212	-76.352	8.789	-73.169	1.00	46.37	B	C
ATOM	12836	O	VAL	B	212	-76.777	9.948	-73.095	1.00	43.48	B	O
ATOM	12838	N	THR	B	213	-75.299	8.337	-72.486	1.00	55.38	B	N

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ATOM	12839	CA	THR	B	213	-74.458	9.227	-71.700	1.00	61.39	B	C
ATOM	12841	CB	THR	B	213	-73.608	8.469	-70.652	1.00	58.03	B	C
ATOM	12843	OG1	THR	B	213	-74.434	7.548	-69.938	1.00	57.21	B	O
ATOM	12845	CG2	THR	B	213	-72.980	9.452	-69.670	1.00	57.86	B	C
ATOM	12849	C	THR	B	213	-73.613	9.920	-72.739	1.00	68.39	B	C
ATOM	12850	O	THR	B	213	-74.175	10.569	-73.624	1.00	73.70	B	O
ATOM	12852	N	SER	B	214	-72.293	9.784	-72.693	1.00	72.34	B	N
ATOM	12853	CA	SER	B	214	-71.483	10.490	-73.655	1.00	76.63	B	C
ATOM	12855	CB	SER	B	214	-72.244	11.782	-74.120	1.00	82.45	B	C
ATOM	12858	OG	SER	B	214	-71.557	12.491	-75.146	1.00	86.44	B	O
ATOM	12860	C	SER	B	214	-70.196	11.003	-73.065	1.00	80.05	B	C
ATOM	12861	O	SER	B	214	-69.688	10.526	-72.048	1.00	82.25	B	O
ATOM	12863	N	GLY	B	215	-69.711	12.035	-73.739	1.00	77.92	B	N
ATOM	12864	CA	GLY	B	215	-68.498	12.706	-73.383	1.00	76.82	B	C
ATOM	12867	C	GLY	B	215	-67.669	12.774	-74.638	1.00	75.08	B	C
ATOM	12868	O	GLY	B	215	-68.188	12.971	-75.748	1.00	77.37	B	O
ATOM	12870	N	SER	B	216	-66.373	12.584	-74.457	1.00	72.90	B	N
ATOM	12871	CA	SER	B	216	-65.425	12.634	-75.553	1.00	70.77	B	C
ATOM	12873	CB	SER	B	216	-64.291	13.622	-75.219	1.00	73.92	B	C
ATOM	12876	OG	SER	B	216	-64.763	14.969	-75.215	1.00	74.90	B	O
ATOM	12878	C	SER	B	216	-64.890	11.223	-75.808	1.00	68.84	B	C
ATOM	12879	O	SER	B	216	-63.722	11.039	-76.167	1.00	69.50	B	O
ATOM	12881	N	ARG	B	217	-65.754	10.227	-75.615	1.00	65.27	B	N
ATOM	12882	CA	ARG	B	217	-65.435	8.852	-75.959	1.00	63.16	B	C
ATOM	12884	CB	ARG	B	217	-66.431	7.887	-75.295	1.00	63.89	B	C
ATOM	12887	CG	ARG	B	217	-66.066	6.399	-75.421	1.00	62.52	B	C
ATOM	12890	CD	ARG	B	217	-67.191	5.462	-74.945	1.00	60.25	B	C
ATOM	12893	NE	ARG	B	217	-68.497	5.742	-75.562	1.00	58.67	B	N
ATOM	12895	CZ	ARG	B	217	-68.845	5.448	-76.817	1.00	55.55	B	C
ATOM	12896	NH1	ARG	B	217	-67.991	4.862	-77.648	1.00	52.91	B	N
ATOM	12899	NH2	ARG	B	217	-70.066	5.752	-77.247	1.00	57.97	B	N
ATOM	12902	C	ARG	B	217	-65.472	8.709	-77.482	1.00	60.60	B	C
ATOM	12903	O	ARG	B	217	-66.413	9.166	-78.136	1.00	56.15	B	O
ATOM	12905	N	VAL	B	218	-64.435	8.087	-78.036	1.00	61.06	B	N
ATOM	12906	CA	VAL	B	218	-64.349	7.836	-79.476	1.00	60.42	B	C
ATOM	12908	CB	VAL	B	218	-62.934	7.291	-79.876	1.00	65.50	B	C
ATOM	12910	CG1	VAL	B	218	-62.784	7.218	-81.410	1.00	68.16	B	C
ATOM	12914	CG2	VAL	B	218	-62.646	5.925	-79.216	1.00	64.49	B	C
ATOM	12918	C	VAL	B	218	-65.463	6.870	-79.915	1.00	59.72	B	C
ATOM	12919	O	VAL	B	218	-65.848	5.961	-79.169	1.00	60.55	B	O
ATOM	12921	N	CYS	B	219	-65.962	7.076	-81.130	1.00	54.52	B	N
ATOM	12922	CA	CYS	B	219	-67.122	6.357	-81.644	1.00	53.57	B	C
ATOM	12924	CB	CYS	B	219	-67.877	7.308	-82.569	1.00	55.06	B	C
ATOM	12927	SG	CYS	B	219	-69.526	6.823	-83.034	1.00	52.70	B	S
ATOM	12929	C	CYS	B	219	-66.726	5.099	-82.427	1.00	49.52	B	C
ATOM	12930	O	CYS	B	219	-65.750	5.115	-83.172	1.00	48.13	B	O
ATOM	12932	N	GLY	B	220	-67.488	4.019	-82.255	1.00	45.27	B	N
ATOM	12933	CA	GLY	B	220	-67.331	2.828	-83.085	1.00	48.11	B	C
ATOM	12936	C	GLY	B	220	-66.055	2.020	-82.879	1.00	48.36	B	C
ATOM	12937	O	GLY	B	220	-65.661	1.240	-83.748	1.00	47.32	B	O
ATOM	12939	N	ASN	B	221	-65.416	2.204	-81.732	1.00	49.30	B	N
ATOM	12940	CA	ASN	B	221	-64.217	1.456	-81.351	1.00	49.61	B	C
ATOM	12942	CB	ASN	B	221	-63.203	2.411	-80.679	1.00	45.94	B	C
ATOM	12945	CG	ASN	B	221	-61.979	1.696	-80.064	1.00	49.67	B	C
ATOM	12946	OD1	ASN	B	221	-61.742	0.503	-80.268	1.00	49.93	B	O
ATOM	12947	ND2	ASN	B	221	-61.198	2.450	-79.295	1.00	50.61	B	N
ATOM	12950	C	ASN	B	221	-64.637	0.346	-80.400	1.00	49.23	B	C
ATOM	12951	O	ASN	B	221	-65.138	0.628	-79.314	1.00	49.31	B	O
ATOM	12953	N	ARG	B	222	-64.448	-0.908	-80.814	1.00	50.87	B	N
ATOM	12954	CA	ARG	B	222	-64.813	-2.073	-79.999	1.00	49.94	B	C
ATOM	12956	CB	ARG	B	222	-64.489	-3.377	-80.762	1.00	53.20	B	C
ATOM	12959	CG	ARG	B	222	-63.073	-3.915	-80.557	1.00	55.82	B	C
ATOM	12962	CD	ARG	B	222	-62.410	-4.395	-81.839	1.00	57.98	B	C
ATOM	12965	NE	ARG	B	222	-60.972	-4.136	-81.757	1.00	61.66	B	N
ATOM	12967	CZ	ARG	B	222	-60.062	-4.963	-81.238	1.00	62.48	B	C
ATOM	12968	NH1	ARG	B	222	-58.792	-4.584	-81.209	1.00	62.89	B	N
ATOM	12971	NH2	ARG	B	222	-60.399	-6.156	-80.750	1.00	62.25	B	N
ATOM	12974	C	ARG	B	222	-64.160	-2.068	-78.601	1.00	45.12	B	C

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ATOM	12975	O	ARG	B	222	-64.676	-2.704	-77.679	1.00	40.80	B	O
ATOM	12977	N	LYS	B	223	-63.029	-1.361	-78.465	1.00	42.16	B	N
ATOM	12978	CA	LYS	B	223	-62.320	-1.249	-77.192	1.00	40.82	B	C
ATOM	12980	CB	LYS	B	223	-60.809	-1.058	-77.410	1.00	39.58	B	C
ATOM	12983	CG	LYS	B	223	-60.081	-2.368	-77.780	1.00	34.94	B	C
ATOM	12986	CD	LYS	B	223	-58.572	-2.195	-77.815	1.00	36.15	B	C
ATOM	12989	CE	LYS	B	223	-57.839	-3.531	-77.993	1.00	34.11	B	C
ATOM	12992	NZ	LYS	B	223	-56.421	-3.359	-78.404	1.00	27.07	B	N
ATOM	12996	C	LYS	B	223	-62.895	-0.189	-76.260	1.00	41.35	B	C
ATOM	12997	O	LYS	B	223	-62.513	-0.137	-75.104	1.00	42.47	B	O
ATOM	12999	N	LYS	B	224	-63.817	0.643	-76.740	1.00	39.50	B	N
ATOM	13000	CA	LYS	B	224	-64.518	1.588	-75.871	1.00	38.20	B	C
ATOM	13002	CB	LYS	B	224	-64.052	3.006	-76.162	1.00	39.50	B	C
ATOM	13005	CG	LYS	B	224	-62.607	3.232	-75.776	1.00	42.74	B	C
ATOM	13008	CD	LYS	B	224	-62.433	3.245	-74.258	1.00	42.38	B	C
ATOM	13011	CE	LYS	B	224	-60.990	3.159	-73.860	1.00	41.95	B	C
ATOM	13014	NZ	LYS	B	224	-60.519	1.794	-74.075	1.00	44.97	B	N
ATOM	13018	C	LYS	B	224	-66.032	1.466	-76.011	1.00	36.56	B	C
ATOM	13019	O	LYS	B	224	-66.646	2.232	-76.754	1.00	36.70	B	O
ATOM	13021	N	PRO	B	225	-66.632	0.490	-75.301	1.00	34.97	B	N
ATOM	13022	CA	PRO	B	225	-68.070	0.254	-75.349	1.00	36.47	B	C
ATOM	13024	CB	PRO	B	225	-68.280	-0.845	-74.295	1.00	34.18	B	C
ATOM	13027	CG	PRO	B	225	-66.974	-1.568	-74.231	1.00	30.19	B	C
ATOM	13030	CD	PRO	B	225	-65.959	-0.482	-74.417	1.00	31.91	B	C
ATOM	13033	C	PRO	B	225	-68.900	1.492	-75.022	1.00	36.92	B	C
ATOM	13034	O	PRO	B	225	-68.424	2.401	-74.350	1.00	36.87	B	O
ATOM	13035	N	GLY	B	226	-70.124	1.527	-75.519	1.00	36.70	B	N
ATOM	13036	CA	GLY	B	226	-70.974	2.683	-75.334	1.00	35.53	B	C
ATOM	13039	C	GLY	B	226	-71.490	2.676	-73.921	1.00	31.50	B	C
ATOM	13040	O	GLY	B	226	-71.677	1.615	-73.351	1.00	29.72	B	O
ATOM	13042	N	ILE	B	227	-71.721	3.866	-73.368	1.00	33.86	B	N
ATOM	13043	CA	ILE	B	227	-72.140	4.026	-71.979	1.00	34.42	B	C
ATOM	13045	CB	ILE	B	227	-71.107	4.860	-71.184	1.00	29.67	B	C
ATOM	13047	CG1	ILE	B	227	-69.721	4.186	-71.265	1.00	31.36	B	C
ATOM	13050	CD1	ILE	B	227	-68.536	5.101	-70.921	1.00	33.46	B	C
ATOM	13054	CG2	ILE	B	227	-71.554	5.003	-69.751	1.00	23.84	B	C
ATOM	13058	C	ILE	B	227	-73.532	4.666	-71.958	1.00	31.46	B	C
ATOM	13059	O	ILE	B	227	-73.799	5.587	-72.718	1.00	27.65	B	O
ATOM	13061	N	TYR	B	228	-74.418	4.131	-71.117	1.00	32.62	B	N
ATOM	13062	CA	TYR	B	228	-75.823	4.576	-71.030	1.00	33.43	B	C
ATOM	13064	CB	TYR	B	228	-76.752	3.618	-71.797	1.00	27.94	B	C
ATOM	13067	CG	TYR	B	228	-76.270	3.417	-73.204	1.00	27.28	B	C
ATOM	13068	CD1	TYR	B	228	-76.741	4.215	-74.251	1.00	26.87	B	C
ATOM	13070	CE1	TYR	B	228	-76.265	4.056	-75.541	1.00	27.97	B	C
ATOM	13072	CZ	TYR	B	228	-75.290	3.096	-75.788	1.00	29.27	B	C
ATOM	13073	OH	TYR	B	228	-74.781	2.908	-77.043	1.00	28.97	B	O
ATOM	13075	CE2	TYR	B	228	-74.807	2.307	-74.765	1.00	27.69	B	C
ATOM	13077	CD2	TYR	B	228	-75.293	2.474	-73.482	1.00	26.53	B	C
ATOM	13079	C	TYR	B	228	-76.224	4.648	-69.574	1.00	31.93	B	C
ATOM	13080	O	TYR	B	228	-75.890	3.756	-68.792	1.00	30.88	B	O
ATOM	13082	N	THR	B	229	-76.926	5.721	-69.210	1.00	35.61	B	N
ATOM	13083	CA	THR	B	229	-77.360	5.918	-67.827	1.00	36.15	B	C
ATOM	13085	CB	THR	B	229	-77.662	7.393	-67.541	1.00	33.39	B	C
ATOM	13087	OG1	THR	B	229	-76.569	8.202	-68.001	1.00	31.14	B	O
ATOM	13089	CG2	THR	B	229	-77.891	7.614	-66.055	1.00	30.27	B	C
ATOM	13093	C	THR	B	229	-78.615	5.097	-67.605	1.00	36.51	B	C
ATOM	13094	O	THR	B	229	-79.566	5.247	-68.351	1.00	33.82	B	O
ATOM	13096	N	ARG	B	230	-78.596	4.225	-66.599	1.00	37.66	B	N
ATOM	13097	CA	ARG	B	230	-79.714	3.349	-66.297	1.00	38.32	B	C
ATOM	13099	CB	ARG	B	230	-79.260	2.205	-65.388	1.00	36.19	B	C
ATOM	13102	CG	ARG	B	230	-78.283	1.262	-66.042	1.00	34.29	B	C
ATOM	13105	CD	ARG	B	230	-77.791	0.203	-65.078	1.00	38.80	B	C
ATOM	13108	NE	ARG	B	230	-78.856	-0.710	-64.675	1.00	40.83	B	N
ATOM	13110	CZ	ARG	B	230	-79.497	-0.689	-63.506	1.00	45.89	B	C
ATOM	13111	NH1	ARG	B	230	-79.202	0.205	-62.560	1.00	47.53	B	N
ATOM	13114	NH2	ARG	B	230	-80.455	-1.579	-63.282	1.00	44.32	B	N
ATOM	13117	C	ARG	B	230	-80.828	4.129	-65.616	1.00	38.52	B	C
ATOM	13118	O	ARG	B	230	-80.672	4.576	-64.493	1.00	41.67	B	O

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ATOM	13120	N	VAL	B	231	-81.959	4.270	-66.297	1.00	41.98	B	N
ATOM	13121	CA	VAL	B	231	-83.085	5.042	-65.770	1.00	39.40	B	C
ATOM	13123	CB	VAL	B	231	-84.194	5.220	-66.832	1.00	40.62	B	C
ATOM	13125	CG1	VAL	B	231	-83.638	5.962	-68.057	1.00	37.57	B	C
ATOM	13129	CG2	VAL	B	231	-84.813	3.875	-67.223	1.00	38.48	B	C
ATOM	13133	C	VAL	B	231	-83.658	4.456	-64.467	1.00	40.57	B	C
ATOM	13134	O	VAL	B	231	-84.074	5.203	-63.577	1.00	44.36	B	O
ATOM	13136	N	ALA	B	232	-83.638	3.130	-64.344	1.00	44.24	B	N
ATOM	13137	CA	ALA	B	232	-84.155	2.434	-63.156	1.00	41.32	B	C
ATOM	13139	CB	ALA	B	232	-84.119	0.924	-63.356	1.00	40.64	B	C
ATOM	13143	C	ALA	B	232	-83.410	2.817	-61.889	1.00	41.33	B	C
ATOM	13144	O	ALA	B	232	-83.996	2.810	-60.808	1.00	42.63	B	O
ATOM	13146	N	SER	B	233	-82.122	3.140	-62.021	1.00	41.75	B	N
ATOM	13147	CA	SER	B	233	-81.321	3.668	-60.894	1.00	39.46	B	C
ATOM	13149	CB	SER	B	233	-79.830	3.742	-61.232	1.00	36.50	B	C
ATOM	13152	OG	ASER	B	233	-79.133	2.647	-60.669	0.70	39.88	B	O
ATOM	13153	OG	BSER	B	233	-79.132	2.635	-60.691	0.30	38.56	B	O
ATOM	13156	C	SER	B	233	-81.767	5.034	-60.384	1.00	39.11	B	C
ATOM	13157	O	SER	B	233	-81.417	5.400	-59.272	1.00	38.58	B	O
ATOM	13159	N	TYR	B	234	-82.525	5.775	-61.193	1.00	41.57	B	N
ATOM	13160	CA	TYR	B	234	-82.943	7.133	-60.851	1.00	42.46	B	C
ATOM	13162	CB	TYR	B	234	-82.348	8.109	-61.880	1.00	38.68	B	C
ATOM	13165	CG	TYR	B	234	-80.826	8.128	-61.873	1.00	38.28	B	C
ATOM	13166	CD1	TYR	B	234	-80.130	9.011	-61.067	1.00	36.79	B	C
ATOM	13168	CE1	TYR	B	234	-78.735	9.025	-61.049	1.00	37.79	B	C
ATOM	13170	CZ	TYR	B	234	-78.028	8.147	-61.842	1.00	35.06	B	C
ATOM	13171	OH	TYR	B	234	-76.655	8.171	-61.801	1.00	38.15	B	O
ATOM	13173	CE2	TYR	B	234	-78.693	7.244	-62.642	1.00	34.31	B	C
ATOM	13175	CD2	TYR	B	234	-80.085	7.239	-62.655	1.00	39.08	B	C
ATOM	13177	C	TYR	B	234	-84.471	7.255	-60.756	1.00	44.56	B	C
ATOM	13178	O	TYR	B	234	-85.027	8.339	-60.927	1.00	41.78	B	O
ATOM	13180	N	ALA	B	235	-85.121	6.131	-60.444	1.00	46.08	B	N
ATOM	13181	CA	ALA	B	235	-86.575	6.008	-60.342	1.00	46.01	B	C
ATOM	13183	CB	ALA	B	235	-86.916	4.599	-59.817	1.00	44.15	B	C
ATOM	13187	C	ALA	B	235	-87.228	7.061	-59.442	1.00	46.98	B	C
ATOM	13188	O	ALA	B	235	-88.151	7.776	-59.859	1.00	46.99	B	O
ATOM	13190	N	ALA	B	236	-86.742	7.129	-58.206	1.00	47.65	B	N
ATOM	13191	CA	ALA	B	236	-87.254	8.054	-57.191	1.00	50.20	B	C
ATOM	13193	CB	ALA	B	236	-86.527	7.829	-55.847	1.00	46.90	B	C
ATOM	13197	C	ALA	B	236	-87.125	9.523	-57.599	1.00	52.72	B	C
ATOM	13198	O	ALA	B	236	-88.024	10.332	-57.331	1.00	58.18	B	O
ATOM	13200	N	TRP	B	237	-86.005	9.861	-58.233	1.00	51.02	B	N
ATOM	13201	CA	TRP	B	237	-85.726	11.232	-58.653	1.00	51.73	B	C
ATOM	13203	CB	TRP	B	237	-84.242	11.382	-59.020	1.00	52.99	B	C
ATOM	13206	CG	TRP	B	237	-83.917	12.692	-59.647	1.00	52.33	B	C
ATOM	13207	CD1	TRP	B	237	-83.765	13.873	-59.011	1.00	52.89	B	C
ATOM	13209	NE1	TRP	B	237	-83.479	14.865	-59.917	1.00	54.15	B	N
ATOM	13211	CE2	TRP	B	237	-83.436	14.327	-61.174	1.00	53.31	B	C
ATOM	13212	CD2	TRP	B	237	-83.705	12.954	-61.046	1.00	53.76	B	C
ATOM	13213	CE3	TRP	B	237	-83.713	12.158	-62.200	1.00	53.52	B	C
ATOM	13215	CZ3	TRP	B	237	-83.459	12.761	-63.431	1.00	53.04	B	C
ATOM	13217	CH2	TRP	B	237	-83.194	14.133	-63.524	1.00	52.83	B	C
ATOM	13219	CZ2	TRP	B	237	-83.182	14.934	-62.411	1.00	53.82	B	C
ATOM	13221	C	TRP	B	237	-86.625	11.666	-59.815	1.00	54.03	B	C
ATOM	13222	O	TRP	B	237	-87.186	12.770	-59.799	1.00	57.03	B	O
ATOM	13224	N	ILE	B	238	-86.779	10.800	-60.814	1.00	52.58	B	N
ATOM	13225	CA	ILE	B	238	-87.666	11.098	-61.941	1.00	53.75	B	C
ATOM	13227	CB	ILE	B	238	-87.643	9.979	-63.003	1.00	52.14	B	C
ATOM	13229	CG1	ILE	B	238	-86.257	9.879	-63.647	1.00	53.14	B	C
ATOM	13232	CD1	ILE	B	238	-86.079	8.648	-64.509	1.00	53.17	B	C
ATOM	13236	CG2	ILE	B	238	-88.675	10.241	-64.080	1.00	49.65	B	C
ATOM	13240	C	ILE	B	238	-89.096	11.300	-61.451	1.00	56.70	B	C
ATOM	13241	O	ILE	B	238	-89.802	12.194	-61.923	1.00	58.39	B	O
ATOM	13243	N	ASP	B	239	-89.517	10.466	-60.503	1.00	58.64	B	N
ATOM	13244	CA	ASP	B	239	-90.854	10.561	-59.923	1.00	57.64	B	C
ATOM	13246	CB	ASP	B	239	-91.081	9.411	-58.926	1.00	57.34	B	C
ATOM	13249	CG	ASP	B	239	-91.491	8.107	-59.613	1.00	54.89	B	C
ATOM	13250	OD1	ASP	B	239	-91.906	8.149	-60.796	1.00	52.51	B	O

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ATOM	13251	OD2	ASP	B	239	-91.414	7.043	-58.959	1.00	51.93	B	O
ATOM	13252	C	ASP	B	239	-91.086	11.911	-59.250	1.00	58.18	B	C
ATOM	13253	O	ASP	B	239	-92.120	12.538	-59.465	1.00	59.19	B	O
ATOM	13255	N	SER	B	240	-90.112	12.357	-58.459	1.00	58.62	B	N
ATOM	13256	CA	SER	B	240	-90.224	13.628	-57.734	1.00	59.18	B	C
ATOM	13258	CB	SER	B	240	-89.015	13.858	-56.812	1.00	55.78	B	C
ATOM	13261	OG	ASER	B	240	-87.843	14.154	-57.547	0.60	53.57	B	O
ATOM	13262	OG	BSER	B	240	-87.843	14.149	-57.550	0.40	54.58	B	O
ATOM	13265	C	SER	B	240	-90.418	14.820	-58.679	1.00	60.50	B	C
ATOM	13266	O	SER	B	240	-91.229	15.713	-58.400	1.00	63.56	B	O
ATOM	13268	N	VAL	B	241	-89.709	14.812	-59.805	1.00	60.37	B	N
ATOM	13269	CA	VAL	B	241	-89.753	15.917	-60.769	1.00	59.54	B	C
ATOM	13271	CB	VAL	B	241	-88.488	15.922	-61.671	1.00	59.50	B	C
ATOM	13273	CG1	VAL	B	241	-88.539	17.076	-62.679	1.00	60.57	B	C
ATOM	13277	CG2	VAL	B	241	-87.221	16.007	-60.822	1.00	54.74	B	C
ATOM	13281	C	VAL	B	241	-91.032	15.893	-61.630	1.00	60.33	B	C
ATOM	13282	O	VAL	B	241	-91.592	16.951	-61.959	1.00	61.50	B	O
ATOM	13284	N	LEU	B	242	-91.492	14.694	-61.988	1.00	61.52	B	N
ATOM	13285	CA	LEU	B	242	-92.744	14.538	-62.744	1.00	63.46	B	C
ATOM	13287	CB	LEU	B	242	-92.825	13.139	-63.371	1.00	63.84	B	C
ATOM	13290	CG	LEU	B	242	-92.150	12.962	-64.729	1.00	63.72	B	C
ATOM	13292	CD1	LEU	B	242	-90.643	13.179	-64.620	1.00	64.91	B	C
ATOM	13296	CD2	LEU	B	242	-92.472	11.577	-65.277	1.00	63.77	B	C
ATOM	13300	C	LEU	B	242	-93.991	14.783	-61.884	1.00	67.37	B	C
ATOM	13301	O	LEU	B	242	-94.967	15.374	-62.358	1.00	69.32	B	O
ATOM	13303	N	ALA	B	243	-93.950	14.315	-60.634	1.00	68.78	B	N
ATOM	13304	CA	ALA	B	243	-95.081	14.410	-59.704	1.00	68.22	B	C
ATOM	13306	CB	ALA	B	243	-94.708	13.783	-58.360	1.00	67.63	B	C
ATOM	13310	C	ALA	B	243	-95.541	15.850	-59.502	1.00	70.99	B	C
ATOM	13311	O	ALA	B	243	-96.733	16.144	-59.556	1.00	69.68	B	O
ATOM	13313	OXT	ALA	B	243	-94.726	16.742	-59.271	1.00	73.33	B	O
ATOM	13314	N	GLU	E	1	-63.843	1.238	-48.702	1.00	44.90	E	N
ATOM	13315	CA	GLU	E	1	-62.449	0.911	-49.127	1.00	46.44	E	C
ATOM	13317	CB	GLU	E	1	-61.505	1.043	-47.911	1.00	44.70	E	C
ATOM	13320	CG	GLU	E	1	-60.197	0.243	-47.970	1.00	47.83	E	C
ATOM	13323	CD	GLU	E	1	-59.516	0.019	-46.595	1.00	51.68	E	C
ATOM	13324	OE1	GLU	E	1	-60.216	-0.105	-45.554	1.00	51.25	E	O
ATOM	13325	OE2	GLU	E	1	-58.259	-0.076	-46.569	1.00	54.21	E	O
ATOM	13326	C	GLU	E	1	-62.374	-0.499	-49.694	1.00	46.62	E	C
ATOM	13327	O	GLU	E	1	-62.901	-1.433	-49.106	1.00	46.85	E	O
ATOM	13331	N	VAL	E	2	-61.715	-0.643	-50.839	1.00	47.91	E	N
ATOM	13332	CA	VAL	E	2	-61.594	-1.936	-51.501	1.00	41.46	E	C
ATOM	13334	CB	VAL	E	2	-61.124	-1.770	-52.952	1.00	36.19	E	C
ATOM	13336	CG1	VAL	E	2	-60.805	-3.114	-53.567	1.00	32.27	E	C
ATOM	13340	CG2	VAL	E	2	-62.187	-1.011	-53.752	1.00	32.30	E	C
ATOM	13344	C	VAL	E	2	-60.598	-2.820	-50.756	1.00	41.16	E	C
ATOM	13345	O	VAL	E	2	-59.507	-2.382	-50.382	1.00	37.55	E	O
ATOM	13347	N	GLN	E	3	-60.980	-4.075	-50.546	1.00	40.03	E	N
ATOM	13348	CA	GLN	E	3	-60.075	-5.058	-49.972	1.00	40.61	E	C
ATOM	13350	CB	GLN	E	3	-60.222	-5.140	-48.442	1.00	45.32	E	C
ATOM	13353	CG	GLN	E	3	-59.643	-3.924	-47.712	1.00	49.62	E	C
ATOM	13356	CD	GLN	E	3	-59.601	-4.077	-46.197	1.00	51.05	E	C
ATOM	13357	OE1	GLN	E	3	-60.523	-3.651	-45.483	1.00	54.26	E	O
ATOM	13358	NE2	GLN	E	3	-58.520	-4.667	-45.695	1.00	55.82	E	N
ATOM	13361	C	GLN	E	3	-60.269	-6.426	-50.603	1.00	36.70	E	C
ATOM	13362	O	GLN	E	3	-61.369	-6.791	-50.978	1.00	36.67	E	O
ATOM	13364	N	LEU	E	4	-59.158	-7.133	-50.774	1.00	33.76	E	N
ATOM	13365	CA	LEU	E	4	-59.135	-8.474	-51.308	1.00	35.75	E	C
ATOM	13367	CB	LEU	E	4	-58.460	-8.488	-52.683	1.00	34.19	E	C
ATOM	13370	CG	LEU	E	4	-59.207	-7.861	-53.859	1.00	32.83	E	C
ATOM	13372	CD1	LEU	E	4	-58.353	-7.911	-55.149	1.00	32.18	E	C
ATOM	13376	CD2	LEU	E	4	-60.540	-8.553	-54.048	1.00	36.85	E	C
ATOM	13380	C	LEU	E	4	-58.309	-9.301	-50.340	1.00	33.96	E	C
ATOM	13381	O	LEU	E	4	-57.135	-9.071	-50.219	1.00	34.26	E	O
ATOM	13383	N	VAL	E	5	-58.929	-10.252	-49.649	1.00	34.28	E	N
ATOM	13384	CA	VAL	E	5	-58.248	-11.046	-48.618	1.00	34.95	E	C
ATOM	13386	CB	VAL	E	5	-58.878	-10.895	-47.194	1.00	31.02	E	C
ATOM	13388	CG1	VAL	E	5	-58.141	-11.768	-46.200	1.00	28.68	E	C

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ATOM	13392	CG2	VAL	E	5	-58.848	-9.454	-46.720	1.00	31.26	E C
ATOM	13396	C	VAL	E	5	-58.296	-12.532	-48.995	1.00	37.33	E C
ATOM	13397	O	VAL	E	5	-59.363	-13.126	-49.091	1.00	38.82	E O
ATOM	13399	N	GLN	E	6	-57.120	-13.114	-49.184	1.00	37.55	E N
ATOM	13400	CA	GLN	E	6	-56.979	-14.507	-49.558	1.00	39.16	E C
ATOM	13402	CB	GLN	E	6	-55.794	-14.689	-50.517	1.00	40.52	E C
ATOM	13405	CG	GLN	E	6	-55.825	-13.787	-51.749	1.00	41.74	E C
ATOM	13408	CD	GLN	E	6	-54.664	-14.036	-52.692	1.00	40.20	E C
ATOM	13409	OE1	GLN	E	6	-53.956	-13.100	-53.082	1.00	39.12	E O
ATOM	13410	NE2	GLN	E	6	-54.453	-15.297	-53.054	1.00	36.14	E N
ATOM	13413	C	GLN	E	6	-56.739	-15.407	-48.352	1.00	41.39	E C
ATOM	13414	O	GLN	E	6	-56.237	-14.962	-47.312	1.00	35.75	E O
ATOM	13416	N	SER	E	7	-57.082	-16.686	-48.518	1.00	44.52	E N
ATOM	13417	CA	SER	E	7	-56.833	-17.711	-47.493	1.00	41.39	E C
ATOM	13419	CB	SER	E	7	-57.489	-19.049	-47.865	1.00	36.37	E C
ATOM	13422	OG	SER	E	7	-57.061	-19.518	-49.132	1.00	37.05	E O
ATOM	13424	C	SER	E	7	-55.337	-17.929	-47.280	1.00	41.57	E C
ATOM	13425	O	SER	E	7	-54.512	-17.532	-48.096	1.00	41.69	E O
ATOM	13427	N	GLY	E	8	-55.010	-18.576	-46.171	1.00	38.39	E N
ATOM	13428	CA	GLY	E	8	-53.647	-18.675	-45.703	1.00	39.31	E C
ATOM	13431	C	GLY	E	8	-52.834	-19.710	-46.447	1.00	39.41	E C
ATOM	13432	O	GLY	E	8	-53.330	-20.357	-47.353	1.00	39.94	E O
ATOM	13434	N	PRO	E	9	-51.573	-19.902	-46.033	1.00	39.61	E N
ATOM	13435	CA	PRO	E	9	-50.695	-20.808	-46.752	1.00	41.44	E C
ATOM	13437	CB	PRO	E	9	-49.338	-20.583	-46.088	1.00	37.79	E C
ATOM	13440	CG	PRO	E	9	-49.683	-20.197	-44.697	1.00	36.61	E C
ATOM	13443	CD	PRO	E	9	-50.914	-19.342	-44.841	1.00	37.92	E C
ATOM	13446	C	PRO	E	9	-51.129	-22.240	-46.553	1.00	44.28	E C
ATOM	13447	O	PRO	E	9	-51.708	-22.582	-45.515	1.00	45.48	E O
ATOM	13448	N	GLU	E	10	-50.866	-23.081	-47.533	1.00	45.85	E N
ATOM	13449	CA	GLU	E	10	-51.288	-24.456	-47.429	1.00	47.59	E C
ATOM	13451	CB	GLU	E	10	-52.607	-24.647	-48.194	1.00	52.54	E C
ATOM	13454	CG	GLU	E	10	-53.753	-25.246	-47.332	1.00	51.72	E C
ATOM	13457	CD	GLU	E	10	-55.122	-24.820	-47.802	1.00	54.66	E C
ATOM	13458	OE1	GLU	E	10	-55.343	-23.607	-47.970	1.00	58.66	E O
ATOM	13459	OE2	GLU	E	10	-55.996	-25.693	-47.988	1.00	65.00	E O
ATOM	13460	C	GLU	E	10	-50.212	-25.413	-47.910	1.00	46.47	E C
ATOM	13461	O	GLU	E	10	-49.461	-25.105	-48.811	1.00	47.48	E O
ATOM	13463	N	LEU	E	11	-50.128	-26.565	-47.249	1.00	48.51	E N
ATOM	13464	CA	LEU	E	11	-49.214	-27.639	-47.621	1.00	47.17	E C
ATOM	13466	CB	LEU	E	11	-48.386	-28.086	-46.421	1.00	45.98	E C
ATOM	13469	CG	LEU	E	11	-47.540	-29.361	-46.543	1.00	46.65	E C
ATOM	13471	CD1	LEU	E	11	-46.432	-29.228	-47.563	1.00	37.22	E C
ATOM	13475	CD2	LEU	E	11	-46.968	-29.750	-45.170	1.00	46.81	E C
ATOM	13479	C	LEU	E	11	-50.086	-28.778	-48.101	1.00	46.40	E C
ATOM	13480	O	LEU	E	11	-51.034	-29.173	-47.408	1.00	41.34	E O
ATOM	13482	N	LYS	E	12	-49.797	-29.272	-49.303	1.00	46.11	E N
ATOM	13483	CA	LYS	E	12	-50.527	-30.395	-49.880	1.00	45.68	E C
ATOM	13485	CB	LYS	E	12	-51.424	-29.953	-51.050	1.00	46.97	E C
ATOM	13488	CG	LYS	E	12	-52.568	-29.013	-50.695	1.00	47.84	E C
ATOM	13491	CD	LYS	E	12	-53.666	-29.663	-49.862	1.00	45.72	E C
ATOM	13494	CE	LYS	E	12	-54.431	-28.600	-49.087	1.00	47.15	E C
ATOM	13497	NZ	LYS	E	12	-55.503	-29.135	-48.165	1.00	47.92	E N
ATOM	13501	C	LYS	E	12	-49.550	-31.430	-50.398	1.00	44.26	E C
ATOM	13502	O	LYS	E	12	-48.413	-31.122	-50.716	1.00	41.42	E O
ATOM	13504	N	LYS	E	13	-50.013	-32.666	-50.504	1.00	46.16	E N
ATOM	13505	CA	LYS	E	13	-49.193	-33.737	-51.057	1.00	50.28	E C
ATOM	13507	CB	LYS	E	13	-49.688	-35.116	-50.586	1.00	55.37	E C
ATOM	13510	CG	LYS	E	13	-49.123	-35.574	-49.256	1.00	56.41	E C
ATOM	13513	CD	LYS	E	13	-49.702	-36.917	-48.846	1.00	58.04	E C
ATOM	13516	CE	LYS	E	13	-49.045	-37.453	-47.562	1.00	60.39	E C
ATOM	13519	NZ	LYS	E	13	-48.989	-36.448	-46.447	1.00	61.47	E N
ATOM	13523	C	LYS	E	13	-49.260	-33.688	-52.568	1.00	46.18	E C
ATOM	13524	O	LYS	E	13	-50.227	-33.162	-53.116	1.00	43.96	E O
ATOM	13526	N	PRO	E	14	-48.240	-34.247	-53.254	1.00	47.11	E N
ATOM	13527	CA	PRO	E	14	-48.357	-34.377	-54.698	1.00	49.79	E C
ATOM	13529	CB	PRO	E	14	-47.088	-35.128	-55.100	1.00	48.49	E C
ATOM	13532	CG	PRO	E	14	-46.150	-34.899	-53.985	1.00	48.39	E C

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ATOM  13535  CD  PRO E  14     -46.969 -34.798 -52.764  1.00 47.34      E    C
ATOM  13538  C   PRO E  14     -49.570 -35.217 -55.046  1.00 51.77      E    C
ATOM  13539  O   PRO E  14     -49.924 -36.134 -54.304  1.00 52.60      E    O
ATOM  13540  N   GLY E  15     -50.229 -34.880 -56.146  1.00 51.94      E    N
ATOM  13541  CA  GLY E  15     -51.422 -35.599 -56.567  1.00 49.18      E    C
ATOM  13544  C   GLY E  15     -52.693 -35.054 -55.952  1.00 46.49      E    C
ATOM  13545  O   GLY E  15     -53.762 -35.240 -56.524  1.00 51.61      E    O
ATOM  13547  N   ALA E  16     -52.596 -34.382 -54.805  1.00 43.60      E    N
ATOM  13548  CA  ALA E  16     -53.766 -33.793 -54.152  1.00 44.63      E    C
ATOM  13550  CB  ALA E  16     -53.444 -33.465 -52.693  1.00 43.14      E    C
ATOM  13554  C   ALA E  16     -54.255 -32.550 -54.896  1.00 43.69      E    C
ATOM  13555  O   ALA E  16     -53.785 -32.248 -55.995  1.00 45.77      E    O
ATOM  13557  N   SER E  17     -55.217 -31.855 -54.298  1.00 42.60      E    N
ATOM  13558  CA  SER E  17     -55.806 -30.656 -54.877  1.00 46.80      E    C
ATOM  13560  CB  SER E  17     -57.174 -30.975 -55.480  1.00 49.34      E    C
ATOM  13563  OG  SER E  17     -58.176 -30.943 -54.484  1.00 50.37      E    O
ATOM  13565  C   SER E  17     -55.960 -29.585 -53.801  1.00 47.19      E    C
ATOM  13566  O   SER E  17     -56.084 -29.894 -52.606  1.00 44.07      E    O
ATOM  13568  N   VAL E  18     -55.975 -28.327 -54.227  1.00 45.21      E    N
ATOM  13569  CA  VAL E  18     -56.062 -27.215 -53.292  1.00 45.32      E    C
ATOM  13571  CB  VAL E  18     -54.651 -26.593 -53.050  1.00 38.35      E    C
ATOM  13573  CG1 VAL E  18     -54.118 -25.861 -54.299  1.00 32.99      E    C
ATOM  13577  CG2 VAL E  18     -54.664 -25.706 -51.834  1.00 44.01      E    C
ATOM  13581  C   VAL E  18     -57.083 -26.192 -53.792  1.00 46.11      E    C
ATOM  13582  O   VAL E  18     -57.322 -26.082 -54.995  1.00 38.85      E    O
ATOM  13584  N   LYS E  19     -57.708 -25.491 -52.849  1.00 50.11      E    N
ATOM  13585  CA  LYS E  19     -58.702 -24.478 -53.157  1.00 47.77      E    C
ATOM  13587  CB  LYS E  19     -60.083 -25.022 -52.796  1.00 53.98      E    C
ATOM  13590  CG  LYS E  19     -61.285 -24.318 -53.432  1.00 55.16      E    C
ATOM  13593  CD  LYS E  19     -62.047 -23.499 -52.394  1.00 62.22      E    C
ATOM  13596  CE  LYS E  19     -62.644 -24.338 -51.235  1.00 64.40      E    C
ATOM  13599  NZ  LYS E  19     -62.332 -23.735 -49.892  1.00 64.90      E    N
ATOM  13603  C   LYS E  19     -58.367 -23.188 -52.397  1.00 44.25      E    C
ATOM  13604  O   LYS E  19     -58.426 -23.141 -51.173  1.00 43.85      E    O
ATOM  13606  N   VAL E  20     -57.974 -22.162 -53.149  1.00 43.55      E    N
ATOM  13607  CA  VAL E  20     -57.590 -20.853 -52.607  1.00 42.50      E    C
ATOM  13609  CB  VAL E  20     -56.334 -20.287 -53.381  1.00 38.25      E    C
ATOM  13611  CG1 VAL E  20     -55.985 -18.853 -52.946  1.00 37.69      E    C
ATOM  13615  CG2 VAL E  20     -55.131 -21.222 -53.201  1.00 36.25      E    C
ATOM  13619  C   VAL E  20     -58.785 -19.908 -52.734  1.00 41.32      E    C
ATOM  13620  O   VAL E  20     -59.469 -19.902 -53.746  1.00 41.59      E    O
ATOM  13622  N   SER E  21     -59.031 -19.125 -51.695  1.00 43.17      E    N
ATOM  13623  CA  SER E  21     -60.142 -18.201 -51.670  1.00 41.18      E    C
ATOM  13625  CB  SER E  21     -60.872 -18.351 -50.342  1.00 45.86      E    C
ATOM  13628  OG  SER E  21     -60.096 -17.787 -49.293  1.00 51.53      E    O
ATOM  13630  C   SER E  21     -59.642 -16.766 -51.803  1.00 42.70      E    C
ATOM  13631  O   SER E  21     -58.568 -16.428 -51.317  1.00 40.78      E    O
ATOM  13633  N   CYS E  22     -60.439 -15.934 -52.466  1.00 42.67      E    N
ATOM  13634  CA  CYS E  22     -60.185 -14.507 -52.559  1.00 40.27      E    C
ATOM  13636  CB  CYS E  22     -59.581 -14.147 -53.932  1.00 38.82      E    C
ATOM  13639  SG  CYS E  22     -59.393 -12.382 -54.222  1.00 36.53      E    S
ATOM  13641  C   CYS E  22     -61.505 -13.783 -52.274  1.00 37.98      E    C
ATOM  13642  O   CYS E  22     -62.374 -13.661 -53.144  1.00 37.54      E    O
ATOM  13644  N   LYS E  23     -61.657 -13.365 -51.025  1.00 40.50      E    N
ATOM  13645  CA  LYS E  23     -62.840 -12.658 -50.559  1.00 43.95      E    C
ATOM  13647  CB  LYS E  23     -63.102 -12.950 -49.074  1.00 47.50      E    C
ATOM  13650  CG  LYS E  23     -64.177 -12.066 -48.464  1.00 46.67      E    C
ATOM  13653  CD  LYS E  23     -65.039 -12.794 -47.461  1.00 50.56      E    C
ATOM  13656  CE  LYS E  23     -66.204 -11.895 -47.003  1.00 52.57      E    C
ATOM  13659  NZ  LYS E  23     -67.430 -12.089 -47.848  1.00 53.40      E    N
ATOM  13663  C   LYS E  23     -62.693 -11.158 -50.790  1.00 41.62      E    C
ATOM  13664  O   LYS E  23     -61.756 -10.536 -50.291  1.00 41.16      E    O
ATOM  13666  N   ALA E  24     -63.658 -10.598 -51.516  1.00 39.43      E    N
ATOM  13667  CA  ALA E  24     -63.675  -9.200 -51.891  1.00 37.97      E    C
ATOM  13669  CB  ALA E  24     -64.116  -9.069 -53.341  1.00 34.62      E    C
ATOM  13673  C   ALA E  24     -64.624  -8.411 -51.000  1.00 37.99      E    C
ATOM  13674  O   ALA E  24     -65.722  -8.866 -50.693  1.00 36.02      E    O
ATOM  13676  N   SER E  25     -64.212  -7.207 -50.625  1.00 41.15      E    N
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ATOM	13677	CA	SER	E	25	-65.062	-6.290	-49.878	1.00	40.65	E	C
ATOM	13679	CB	SER	E	25	-64.798	-6.446	-48.380	1.00	44.29	E	C
ATOM	13682	OG	SER	E	25	-63.579	-5.834	-47.993	1.00	48.10	E	O
ATOM	13684	C	SER	E	25	-64.824	-4.832	-50.302	1.00	39.08	E	C
ATOM	13685	O	SER	E	25	-63.750	-4.501	-50.832	1.00	36.29	E	O
ATOM	13687	N	GLY	E	26	-65.840	-3.984	-50.082	1.00	39.38	E	N
ATOM	13688	CA	GLY	E	26	-65.745	-2.548	-50.318	1.00	38.43	E	C
ATOM	13691	C	GLY	E	26	-66.167	-2.099	-51.693	1.00	39.54	E	C
ATOM	13692	O	GLY	E	26	-65.964	-0.938	-52.041	1.00	43.17	E	O
ATOM	13694	N	TYR	E	27	-66.772	-3.000	-52.468	1.00	36.40	E	N
ATOM	13695	CA	TYR	E	27	-67.205	-2.681	-53.822	1.00	35.01	E	C
ATOM	13697	CB	TYR	E	27	-65.956	-2.575	-54.714	1.00	25.41	E	C
ATOM	13700	CG	TYR	E	27	-65.252	-3.887	-55.019	1.00	24.34	E	C
ATOM	13701	CD1	TYR	E	27	-65.558	-4.589	-56.175	1.00	20.77	E	C
ATOM	13703	CE1	TYR	E	27	-64.948	-5.761	-56.489	1.00	17.10	E	C
ATOM	13705	CZ	TYR	E	27	-64.000	-6.287	-55.671	1.00	23.27	E	C
ATOM	13706	OH	TYR	E	27	-63.441	-7.492	-56.061	1.00	24.75	E	O
ATOM	13708	CE2	TYR	E	27	-63.627	-5.616	-54.496	1.00	26.15	E	C
ATOM	13710	CD2	TYR	E	27	-64.267	-4.410	-54.177	1.00	27.15	E	C
ATOM	13712	C	TYR	E	27	-68.187	-3.757	-54.273	1.00	34.60	E	C
ATOM	13713	O	TYR	E	27	-68.331	-4.753	-53.585	1.00	31.39	E	O
ATOM	13715	N	THR	E	28	-68.871	-3.545	-55.398	1.00	38.91	E	N
ATOM	13716	CA	THR	E	28	-69.801	-4.516	-55.936	1.00	37.01	E	C
ATOM	13718	CB	THR	E	28	-70.799	-3.829	-56.830	1.00	39.03	E	C
ATOM	13720	OG1	THR	E	28	-71.411	-2.777	-56.083	1.00	39.54	E	O
ATOM	13722	CG2	THR	E	28	-71.879	-4.823	-57.334	1.00	36.14	E	C
ATOM	13726	C	THR	E	28	-69.021	-5.579	-56.691	1.00	37.90	E	C
ATOM	13727	O	THR	E	28	-68.485	-5.349	-57.774	1.00	38.21	E	O
ATOM	13729	N	PHE	E	29	-68.976	-6.755	-56.097	1.00	39.24	E	N
ATOM	13730	CA	PHE	E	29	-68.215	-7.892	-56.598	1.00	38.41	E	C
ATOM	13732	CB	PHE	E	29	-68.560	-9.086	-55.702	1.00	39.58	E	C
ATOM	13735	CG	PHE	E	29	-67.725	-10.304	-55.940	1.00	38.46	E	C
ATOM	13736	CD1	PHE	E	29	-66.421	-10.344	-55.524	1.00	36.15	E	C
ATOM	13738	CE1	PHE	E	29	-65.657	-11.467	-55.730	1.00	37.54	E	C
ATOM	13740	CZ	PHE	E	29	-66.201	-12.571	-56.348	1.00	38.88	E	C
ATOM	13742	CE2	PHE	E	29	-67.517	-12.551	-56.749	1.00	38.77	E	C
ATOM	13744	CD2	PHE	E	29	-68.270	-11.431	-56.549	1.00	36.53	E	C
ATOM	13746	C	PHE	E	29	-68.431	-8.200	-58.096	1.00	38.36	E	C
ATOM	13747	O	PHE	E	29	-67.487	-8.553	-58.798	1.00	36.25	E	O
ATOM	13749	N	THR	E	30	-69.646	-8.016	-58.585	1.00	38.97	E	N
ATOM	13750	CA	THR	E	30	-70.011	-8.370	-59.961	1.00	36.89	E	C
ATOM	13752	CB	THR	E	30	-71.480	-8.813	-59.965	1.00	40.53	E	C
ATOM	13754	OG1	THR	E	30	-71.623	-9.967	-59.115	1.00	35.48	E	O
ATOM	13756	CG2	THR	E	30	-71.937	-9.180	-61.370	1.00	45.26	E	C
ATOM	13760	C	THR	E	30	-69.721	-7.275	-61.004	1.00	34.69	E	C
ATOM	13761	O	THR	E	30	-69.822	-7.521	-62.201	1.00	37.13	E	O
ATOM	13763	N	ASN	E	31	-69.333	-6.084	-60.543	1.00	35.68	E	N
ATOM	13764	CA	ASN	E	31	-68.880	-4.977	-61.420	1.00	37.12	E	C
ATOM	13766	CB	ASN	E	31	-68.801	-3.657	-60.636	1.00	39.22	E	C
ATOM	13769	CG	ASN	E	31	-70.170	-3.011	-60.364	1.00	41.42	E	C
ATOM	13770	OD1	ASN	E	31	-71.235	-3.544	-60.725	1.00	35.04	E	O
ATOM	13771	ND2	ASN	E	31	-70.126	-1.828	-59.716	1.00	34.94	E	N
ATOM	13774	C	ASN	E	31	-67.485	-5.161	-62.023	1.00	33.52	E	C
ATOM	13775	O	ASN	E	31	-67.151	-4.549	-63.025	1.00	32.44	E	O
ATOM	13777	N	TYR	E	32	-66.668	-5.981	-61.382	1.00	35.12	E	N
ATOM	13778	CA	TYR	E	32	-65.281	-6.185	-61.779	1.00	35.69	E	C
ATOM	13780	CB	TYR	E	32	-64.302	-5.585	-60.741	1.00	35.46	E	C
ATOM	13783	CG	TYR	E	32	-64.455	-4.113	-60.437	1.00	35.64	E	C
ATOM	13784	CD1	TYR	E	32	-63.585	-3.172	-60.983	1.00	34.14	E	C
ATOM	13786	CE1	TYR	E	32	-63.733	-1.821	-60.700	1.00	34.43	E	C
ATOM	13788	CZ	TYR	E	32	-64.758	-1.403	-59.874	1.00	35.69	E	C
ATOM	13789	OH	TYR	E	32	-64.915	-0.066	-59.579	1.00	36.30	E	O
ATOM	13791	CE2	TYR	E	32	-65.631	-2.316	-59.326	1.00	35.97	E	C
ATOM	13793	CD2	TYR	E	32	-65.466	-3.662	-59.593	1.00	36.28	E	C
ATOM	13795	C	TYR	E	32	-64.983	-7.662	-61.799	1.00	34.94	E	C
ATOM	13796	O	TYR	E	32	-65.315	-8.359	-60.834	1.00	35.31	E	O
ATOM	13798	N	GLY	E	33	-64.310	-8.134	-62.844	1.00	36.76	E	N
ATOM	13799	CA	GLY	E	33	-63.832	-9.514	-62.868	1.00	33.85	E	C

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ATOM	13802	C	GLY	E	33	-62.684	-9.738	-61.909	1.00	33.55	E	C
ATOM	13803	O	GLY	E	33	-62.289	-8.834	-61.185	1.00	35.55	E	O
ATOM	13805	N	MET	E	34	-62.146	-10.952	-61.901	1.00	31.83	E	N
ATOM	13806	CA	MET	E	34	-61.020	-11.293	-61.033	1.00	32.44	E	C
ATOM	13808	CB	MET	E	34	-61.472	-12.138	-59.836	1.00	29.60	E	C
ATOM	13811	CG	MET	E	34	-60.467	-12.219	-58.665	1.00	29.01	E	C
ATOM	13814	SD	MET	E	34	-60.198	-10.681	-57.740	1.00	25.71	E	S
ATOM	13815	CE	MET	E	34	-61.691	-10.621	-56.742	1.00	22.59	E	C
ATOM	13819	C	MET	E	34	-59.957	-12.026	-61.830	1.00	32.14	E	C
ATOM	13820	O	MET	E	34	-60.250	-13.050	-62.456	1.00	32.73	E	O
ATOM	13822	N	ASN	E	35	-58.733	-11.473	-61.826	1.00	29.81	E	N
ATOM	13823	CA	ASN	E	35	-57.575	-12.123	-62.455	1.00	30.69	E	C
ATOM	13825	CB	ASN	E	35	-56.557	-11.088	-62.949	1.00	32.42	E	C
ATOM	13828	CG	ASN	E	35	-57.154	-10.075	-63.892	1.00	28.96	E	C
ATOM	13829	OD1	ASN	E	35	-58.179	-10.327	-64.537	1.00	27.19	E	O
ATOM	13830	ND2	ASN	E	35	-56.498	-8.925	-64.004	1.00	20.76	E	N
ATOM	13833	C	ASN	E	35	-56.890	-13.012	-61.449	1.00	28.73	E	C
ATOM	13834	O	ASN	E	35	-56.956	-12.765	-60.258	1.00	29.20	E	O
ATOM	13836	N	TRP	E	36	-56.234	-14.060	-61.926	1.00	33.58	E	N
ATOM	13837	CA	TRP	E	36	-55.384	-14.908	-61.077	1.00	32.08	E	C
ATOM	13839	CB	TRP	E	36	-55.909	-16.347	-61.017	1.00	33.67	E	C
ATOM	13842	CG	TRP	E	36	-57.120	-16.447	-60.132	1.00	34.71	E	C
ATOM	13843	CD1	TRP	E	36	-58.410	-16.360	-60.523	1.00	34.27	E	C
ATOM	13845	NE1	TRP	E	36	-59.238	-16.466	-59.447	1.00	35.55	E	N
ATOM	13847	CE2	TRP	E	36	-58.489	-16.601	-58.310	1.00	36.20	E	C
ATOM	13848	CD2	TRP	E	36	-57.139	-16.588	-58.703	1.00	35.79	E	C
ATOM	13849	CE3	TRP	E	36	-56.144	-16.716	-57.721	1.00	35.42	E	C
ATOM	13851	CZ3	TRP	E	36	-56.532	-16.854	-56.387	1.00	34.73	E	C
ATOM	13853	CH2	TRP	E	36	-57.897	-16.864	-56.021	1.00	36.73	E	C
ATOM	13855	CZ2	TRP	E	36	-58.888	-16.734	-56.965	1.00	35.58	E	C
ATOM	13857	C	TRP	E	36	-53.969	-14.878	-61.607	1.00	31.47	E	C
ATOM	13858	O	TRP	E	36	-53.750	-15.026	-62.802	1.00	33.33	E	O
ATOM	13860	N	VAL	E	37	-53.009	-14.694	-60.705	1.00	35.00	E	N
ATOM	13861	CA	VAL	E	37	-51.603	-14.617	-61.076	1.00	32.67	E	C
ATOM	13863	CB	VAL	E	37	-51.080	-13.168	-61.011	1.00	34.65	E	C
ATOM	13865	CG1	VAL	E	37	-49.576	-13.112	-61.283	1.00	23.13	E	C
ATOM	13869	CG2	VAL	E	37	-51.870	-12.272	-62.000	1.00	31.91	E	C
ATOM	13873	C	VAL	E	37	-50.790	-15.531	-60.172	1.00	34.05	E	C
ATOM	13874	O	VAL	E	37	-51.061	-15.647	-58.990	1.00	31.60	E	O
ATOM	13876	N	ARG	E	38	-49.795	-16.183	-60.762	1.00	35.67	E	N
ATOM	13877	CA	ARG	E	38	-48.882	-17.083	-60.062	1.00	35.50	E	C
ATOM	13879	CB	ARG	E	38	-48.797	-18.370	-60.829	1.00	39.19	E	C
ATOM	13882	CG	ARG	E	38	-48.263	-19.496	-60.063	1.00	41.34	E	C
ATOM	13885	CD	ARG	E	38	-48.182	-20.692	-60.961	1.00	40.57	E	C
ATOM	13888	NE	ARG	E	38	-46.834	-20.908	-61.413	1.00	42.44	E	N
ATOM	13890	CZ	ARG	E	38	-46.381	-22.054	-61.911	1.00	51.83	E	C
ATOM	13891	NH1	ARG	E	38	-47.211	-23.098	-62.053	1.00	54.55	E	N
ATOM	13894	NH2	ARG	E	38	-45.089	-22.153	-62.272	1.00	48.12	E	N
ATOM	13897	C	ARG	E	38	-47.479	-16.517	-60.043	1.00	33.86	E	C
ATOM	13898	O	ARG	E	38	-47.053	-15.886	-61.014	1.00	29.58	E	O
ATOM	13900	N	GLN	E	39	-46.776	-16.753	-58.934	1.00	32.55	E	N
ATOM	13901	CA	GLN	E	39	-45.352	-16.519	-58.852	1.00	33.04	E	C
ATOM	13903	CB	GLN	E	39	-45.069	-15.167	-58.217	1.00	34.40	E	C
ATOM	13906	CG	GLN	E	39	-43.617	-14.765	-58.296	1.00	30.44	E	C
ATOM	13909	CD	GLN	E	39	-43.397	-13.337	-57.918	1.00	28.61	E	C
ATOM	13910	OE1	GLN	E	39	-44.069	-12.829	-57.035	1.00	30.50	E	O
ATOM	13911	NE2	GLN	E	39	-42.457	-12.654	-58.611	1.00	27.68	E	N
ATOM	13914	C	GLN	E	39	-44.621	-17.659	-58.109	1.00	36.74	E	C
ATOM	13915	O	GLN	E	39	-44.648	-17.766	-56.882	1.00	38.72	E	O
ATOM	13917	N	ALA	E	40	-43.961	-18.506	-58.891	1.00	38.76	E	N
ATOM	13918	CA	ALA	E	40	-43.091	-19.528	-58.359	1.00	39.86	E	C
ATOM	13920	CB	ALA	E	40	-42.646	-20.466	-59.490	1.00	37.02	E	C
ATOM	13924	C	ALA	E	40	-41.883	-18.865	-57.696	1.00	43.43	E	C
ATOM	13925	O	ALA	E	40	-41.495	-17.746	-58.088	1.00	43.41	E	O
ATOM	13927	N	PRO	E	41	-41.271	-19.548	-56.701	1.00	44.36	E	N
ATOM	13928	CA	PRO	E	41	-40.203	-18.925	-55.882	1.00	48.11	E	C
ATOM	13930	CB	PRO	E	41	-39.744	-20.068	-54.956	1.00	44.72	E	C
ATOM	13933	CG	PRO	E	41	-40.878	-21.027	-54.942	1.00	43.71	E	C

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ATOM	13936	CD	PRO	E	41	-41.529	-20.939	-56.289	1.00	43.43	E	C
ATOM	13939	C	PRO	E	41	-39.021	-18.392	-56.701	1.00	47.21	E	C
ATOM	13940	O	PRO	E	41	-38.340	-19.161	-57.385	1.00	47.25	E	O
ATOM	13941	N	GLY	E	42	-38.800	-17.082	-56.631	1.00	48.31	E	N
ATOM	13942	CA	GLY	E	42	-37.699	-16.448	-57.356	1.00	49.39	E	C
ATOM	13945	C	GLY	E	42	-37.946	-16.233	-58.841	1.00	51.01	E	C
ATOM	13946	O	GLY	E	42	-37.054	-15.788	-59.560	1.00	54.21	E	O
ATOM	13948	N	GLN	E	43	-39.154	-16.532	-59.308	1.00	48.15	E	N
ATOM	13949	CA	GLN	E	43	-39.475	-16.409	-60.720	1.00	43.81	E	C
ATOM	13951	CB	GLN	E	43	-40.217	-17.649	-61.220	1.00	52.72	E	C
ATOM	13954	CG	GLN	E	43	-39.607	-18.984	-60.817	1.00	59.84	E	C
ATOM	13957	CD	GLN	E	43	-38.241	-19.191	-61.403	1.00	63.71	E	C
ATOM	13958	OE1	GLN	E	43	-38.092	-19.854	-62.427	1.00	71.25	E	O
ATOM	13959	NE2	GLN	E	43	-37.229	-18.612	-60.771	1.00	63.85	E	N
ATOM	13962	C	GLN	E	43	-40.345	-15.171	-60.945	1.00	40.18	E	C
ATOM	13963	O	GLN	E	43	-40.694	-14.446	-59.990	1.00	39.51	E	O
ATOM	13965	N	GLY	E	44	-40.702	-14.955	-62.209	1.00	34.84	E	N
ATOM	13966	CA	GLY	E	44	-41.557	-13.858	-62.592	1.00	34.89	E	C
ATOM	13969	C	GLY	E	44	-43.035	-14.087	-62.383	1.00	34.33	E	C
ATOM	13970	O	GLY	E	44	-43.468	-15.183	-62.043	1.00	37.50	E	O
ATOM	13972	N	LEU	E	45	-43.808	-13.030	-62.594	1.00	33.83	E	N
ATOM	13973	CA	LEU	E	45	-45.251	-13.091	-62.518	1.00	32.37	E	C
ATOM	13975	CB	LEU	E	45	-45.803	-11.672	-62.378	1.00	29.21	E	C
ATOM	13978	CG	LEU	E	45	-45.415	-10.876	-61.111	1.00	28.09	E	C
ATOM	13980	CD1	LEU	E	45	-45.797	-9.413	-61.285	1.00	22.70	E	C
ATOM	13984	CD2	LEU	E	45	-46.057	-11.451	-59.831	1.00	26.91	E	C
ATOM	13988	C	LEU	E	45	-45.833	-13.792	-63.771	1.00	31.87	E	C
ATOM	13989	O	LEU	E	45	-45.308	-13.637	-64.875	1.00	32.32	E	O
ATOM	13991	N	GLU	E	46	-46.888	-14.582	-63.577	1.00	35.22	E	N
ATOM	13992	CA	GLU	E	46	-47.545	-15.340	-64.656	1.00	35.71	E	C
ATOM	13994	CB	GLU	E	46	-47.256	-16.825	-64.570	1.00	36.76	E	C
ATOM	13997	CG	GLU	E	46	-45.813	-17.201	-64.505	1.00	45.66	E	C
ATOM	14000	CD	GLU	E	46	-45.639	-18.701	-64.351	1.00	46.79	E	C
ATOM	14001	OE1	GLU	E	46	-45.417	-19.156	-63.208	1.00	47.33	E	O
ATOM	14002	OE2	GLU	E	46	-45.757	-19.418	-65.369	1.00	51.41	E	O
ATOM	14003	C	GLU	E	46	-49.055	-15.179	-64.572	1.00	34.79	E	C
ATOM	14004	O	GLU	E	46	-49.676	-15.617	-63.610	1.00	31.02	E	O
ATOM	14006	N	TRP	E	47	-49.625	-14.548	-65.593	1.00	31.92	E	N
ATOM	14007	CA	TRP	E	47	-51.047	-14.326	-65.682	1.00	34.58	E	C
ATOM	14009	CB	TRP	E	47	-51.324	-13.261	-66.748	1.00	32.25	E	C
ATOM	14012	CG	TRP	E	47	-52.610	-12.501	-66.577	1.00	29.02	E	C
ATOM	14013	CD1	TRP	E	47	-52.798	-11.361	-65.869	1.00	29.34	E	C
ATOM	14015	NE1	TRP	E	47	-54.106	-10.964	-65.942	1.00	29.66	E	N
ATOM	14017	CE2	TRP	E	47	-54.794	-11.859	-66.713	1.00	31.39	E	C
ATOM	14018	CD2	TRP	E	47	-53.876	-12.843	-67.132	1.00	30.81	E	C
ATOM	14019	CE3	TRP	E	47	-54.327	-13.886	-67.955	1.00	29.84	E	C
ATOM	14021	CZ3	TRP	E	47	-55.651	-13.907	-68.330	1.00	30.31	E	C
ATOM	14023	CH2	TRP	E	47	-56.549	-12.912	-67.904	1.00	29.93	E	C
ATOM	14025	CZ2	TRP	E	47	-56.142	-11.883	-67.090	1.00	32.54	E	C
ATOM	14027	C	TRP	E	47	-51.729	-15.694	-65.991	1.00	35.86	E	C
ATOM	14028	O	TRP	E	47	-51.517	-16.296	-67.042	1.00	34.65	E	O
ATOM	14030	N	MET	E	48	-52.501	-16.191	-65.029	1.00	33.14	E	N
ATOM	14031	CA	MET	E	48	-53.079	-17.528	-65.124	1.00	36.95	E	C
ATOM	14033	CB	MET	E	48	-53.347	-18.079	-63.727	1.00	38.46	E	C
ATOM	14036	CG	MET	E	48	-52.102	-18.358	-62.904	1.00	37.63	E	C
ATOM	14039	SD	MET	E	48	-52.536	-18.897	-61.248	1.00	37.21	E	S
ATOM	14040	CE	MET	E	48	-53.515	-20.373	-61.557	1.00	37.28	E	C
ATOM	14044	C	MET	E	48	-54.380	-17.529	-65.924	1.00	37.69	E	C
ATOM	14045	O	MET	E	48	-54.620	-18.399	-66.769	1.00	38.59	E	O
ATOM	14047	N	GLY	E	49	-55.232	-16.554	-65.631	1.00	37.63	E	N
ATOM	14048	CA	GLY	E	49	-56.505	-16.436	-66.305	1.00	39.08	E	C
ATOM	14051	C	GLY	E	49	-57.382	-15.400	-65.640	1.00	37.95	E	C
ATOM	14052	O	GLY	E	49	-56.974	-14.766	-64.670	1.00	37.07	E	O
ATOM	14054	N	TRP	E	50	-58.595	-15.243	-66.161	1.00	38.55	E	N
ATOM	14055	CA	TRP	E	50	-59.601	-14.422	-65.491	1.00	39.15	E	C
ATOM	14057	CB	TRP	E	50	-59.710	-13.054	-66.151	1.00	34.89	E	C
ATOM	14060	CG	TRP	E	50	-60.967	-12.738	-66.833	1.00	34.40	E	C
ATOM	14061	CD1	TRP	E	50	-61.572	-13.464	-67.800	1.00	35.08	E	C

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ATOM	14063	NE1	TRP	E	50	-62.717	-12.835	-68.215	1.00	34.51	E	N
ATOM	14065	CE2	TRP	E	50	-62.860	-11.659	-67.532	1.00	32.07	E	C
ATOM	14066	CD2	TRP	E	50	-61.760	-11.555	-66.657	1.00	32.86	E	C
ATOM	14067	CE3	TRP	E	50	-61.651	-10.426	-65.841	1.00	33.83	E	C
ATOM	14069	CZ3	TRP	E	50	-62.641	-9.443	-65.931	1.00	35.21	E	C
ATOM	14071	CH2	TRP	E	50	-63.732	-9.583	-66.814	1.00	33.73	E	C
ATOM	14073	CZ2	TRP	E	50	-63.851	-10.672	-67.627	1.00	31.82	E	C
ATOM	14075	C	TRP	E	50	-60.950	-15.152	-65.355	1.00	38.83	E	C
ATOM	14076	O	TRP	E	50	-61.256	-16.076	-66.110	1.00	35.65	E	O
ATOM	14078	N	ILE	E	51	-61.719	-14.771	-64.346	1.00	37.21	E	N
ATOM	14079	CA	ILE	E	51	-63.109	-15.194	-64.253	1.00	38.56	E	C
ATOM	14081	CB	ILE	E	51	-63.431	-16.063	-62.978	1.00	36.74	E	C
ATOM	14083	CG1	ILE	E	51	-64.901	-16.524	-63.007	1.00	33.01	E	C
ATOM	14086	CD1	ILE	E	51	-65.224	-17.695	-62.095	1.00	31.78	E	C
ATOM	14090	CG2	ILE	E	51	-63.142	-15.299	-61.684	1.00	34.92	E	C
ATOM	14094	C	ILE	E	51	-63.990	-13.947	-64.291	1.00	38.32	E	C
ATOM	14095	O	ILE	E	51	-63.770	-13.008	-63.523	1.00	35.84	E	O
ATOM	14097	N	ASN	E	52	-64.983	-13.941	-65.181	1.00	38.12	E	N
ATOM	14098	CA	ASN	E	52	-65.980	-12.878	-65.179	1.00	35.83	E	C
ATOM	14100	CB	ASN	E	52	-66.668	-12.781	-66.541	1.00	29.70	E	C
ATOM	14103	CG	ASN	E	52	-67.566	-11.561	-66.667	1.00	27.49	E	C
ATOM	14104	OD1	ASN	E	52	-68.252	-11.190	-65.722	1.00	22.69	E	O
ATOM	14105	ND2	ASN	E	52	-67.604	-10.966	-67.863	1.00	20.79	E	N
ATOM	14108	C	ASN	E	52	-66.953	-13.160	-64.033	1.00	35.19	E	C
ATOM	14109	O	ASN	E	52	-67.612	-14.181	-64.028	1.00	31.67	E	O
ATOM	14111	N	THR	E	53	-66.992	-12.259	-63.051	1.00	38.64	E	N
ATOM	14112	CA	THR	E	53	-67.800	-12.417	-61.827	1.00	37.57	E	C
ATOM	14114	CB	THR	E	53	-67.331	-11.467	-60.694	1.00	36.19	E	C
ATOM	14116	OG1	THR	E	53	-67.376	-10.111	-61.158	1.00	33.71	E	O
ATOM	14118	CG2	THR	E	53	-65.930	-11.815	-60.219	1.00	34.51	E	C
ATOM	14122	C	THR	E	53	-69.279	-12.120	-62.009	1.00	38.16	E	C
ATOM	14123	O	THR	E	53	-70.088	-12.383	-61.115	1.00	39.37	E	O
ATOM	14125	N	TYR	E	54	-69.622	-11.558	-63.160	1.00	38.22	E	N
ATOM	14126	CA	TYR	E	54	-71.004	-11.268	-63.516	1.00	36.95	E	C
ATOM	14128	CB	TYR	E	54	-70.979	-10.053	-64.449	1.00	32.64	E	C
ATOM	14131	CG	TYR	E	54	-72.284	-9.346	-64.620	1.00	30.68	E	C
ATOM	14132	CD1	TYR	E	54	-72.566	-8.180	-63.922	1.00	28.96	E	C
ATOM	14134	CE1	TYR	E	54	-73.763	-7.524	-64.090	1.00	32.48	E	C
ATOM	14136	CZ	TYR	E	54	-74.698	-8.037	-64.970	1.00	34.50	E	C
ATOM	14137	OH	TYR	E	54	-75.895	-7.408	-65.164	1.00	32.98	E	O
ATOM	14139	CE2	TYR	E	54	-74.435	-9.191	-65.674	1.00	33.89	E	C
ATOM	14141	CD2	TYR	E	54	-73.228	-9.828	-65.505	1.00	31.33	E	C
ATOM	14143	C	TYR	E	54	-71.636	-12.491	-64.187	1.00	40.31	E	C
ATOM	14144	O	TYR	E	54	-72.758	-12.895	-63.883	1.00	41.56	E	O
ATOM	14146	N	THR	E	55	-70.843	-13.096	-65.053	1.00	40.75	E	N
ATOM	14147	CA	THR	E	55	-71.260	-14.030	-66.054	1.00	39.42	E	C
ATOM	14149	CB	THR	E	55	-70.686	-13.427	-67.349	1.00	37.28	E	C
ATOM	14151	OG1	THR	E	55	-71.717	-12.662	-67.976	1.00	36.16	E	O
ATOM	14153	CG2	THR	E	55	-70.105	-14.426	-68.269	1.00	37.74	E	C
ATOM	14157	C	THR	E	55	-70.787	-15.458	-65.774	1.00	41.06	E	C
ATOM	14158	O	THR	E	55	-71.422	-16.415	-66.217	1.00	43.21	E	O
ATOM	14160	N	GLY	E	56	-69.692	-15.594	-65.031	1.00	39.93	E	N
ATOM	14161	CA	GLY	E	56	-69.137	-16.896	-64.665	1.00	38.10	E	C
ATOM	14164	C	GLY	E	56	-68.187	-17.446	-65.707	1.00	39.53	E	C
ATOM	14165	O	GLY	E	56	-67.524	-18.451	-65.475	1.00	41.84	E	O
ATOM	14167	N	GLU	E	57	-68.130	-16.786	-66.861	1.00	40.67	E	N
ATOM	14168	CA	GLU	E	57	-67.199	-17.125	-67.922	1.00	40.79	E	C
ATOM	14170	CB	GLU	E	57	-67.318	-16.118	-69.071	1.00	42.40	E	C
ATOM	14173	CG	GLU	E	57	-68.354	-16.423	-70.128	1.00	47.09	E	C
ATOM	14176	CD	GLU	E	57	-68.694	-15.208	-70.987	1.00	50.01	E	C
ATOM	14177	OE1	GLU	E	57	-68.335	-14.072	-70.595	1.00	53.87	E	O
ATOM	14178	OE2	GLU	E	57	-69.343	-15.385	-72.045	1.00	54.80	E	O
ATOM	14179	C	GLU	E	57	-65.774	-17.050	-67.411	1.00	40.71	E	C
ATOM	14180	O	GLU	E	57	-65.450	-16.215	-66.566	1.00	37.71	E	O
ATOM	14182	N	THR	E	58	-64.924	-17.894	-67.978	1.00	40.47	E	N
ATOM	14183	CA	THR	E	58	-63.537	-18.002	-67.579	1.00	40.12	E	C
ATOM	14185	CB	THR	E	58	-63.311	-19.280	-66.757	1.00	38.93	E	C
ATOM	14187	OG1	THR	E	58	-64.019	-20.356	-67.382	1.00	40.84	E	O

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ATOM	14189	CG2	THR	E	58	-63.813	-19.100	-65.311	1.00	29.97	E	C
ATOM	14193	C	THR	E	58	-62.671	-18.019	-68.823	1.00	42.78	E	C
ATOM	14194	O	THR	E	58	-63.108	-18.459	-69.890	1.00	40.66	E	O
ATOM	14196	N	THR	E	59	-61.456	-17.495	-68.686	1.00	43.90	E	N
ATOM	14197	CA	THR	E	59	-60.461	-17.536	-69.756	1.00	40.41	E	C
ATOM	14199	CB	THR	E	59	-60.464	-16.216	-70.519	1.00	38.26	E	C
ATOM	14201	OG1	THR	E	59	-61.819	-15.874	-70.846	1.00	36.03	E	O
ATOM	14203	CG2	THR	E	59	-59.610	-16.295	-71.791	1.00	35.03	E	C
ATOM	14207	C	THR	E	59	-59.097	-17.815	-69.137	1.00	42.26	E	C
ATOM	14208	O	THR	E	59	-58.681	-17.143	-68.207	1.00	44.61	E	O
ATOM	14210	N	TYR	E	60	-58.430	-18.835	-69.658	1.00	42.47	E	N
ATOM	14211	CA	TYR	E	60	-57.203	-19.340	-69.106	1.00	41.09	E	C
ATOM	14213	CB	TYR	E	60	-57.359	-20.838	-68.858	1.00	32.73	E	C
ATOM	14216	CG	TYR	E	60	-58.420	-21.158	-67.841	1.00	31.44	E	C
ATOM	14217	CD1	TYR	E	60	-58.151	-21.060	-66.484	1.00	26.72	E	C
ATOM	14219	CE1	TYR	E	60	-59.123	-21.340	-65.539	1.00	29.46	E	C
ATOM	14221	CZ	TYR	E	60	-60.374	-21.734	-65.942	1.00	29.17	E	C
ATOM	14222	OH	TYR	E	60	-61.311	-21.995	-65.000	1.00	29.82	E	O
ATOM	14224	CE2	TYR	E	60	-60.687	-21.834	-67.290	1.00	31.69	E	C
ATOM	14226	CD2	TYR	E	60	-59.706	-21.553	-68.237	1.00	31.73	E	C
ATOM	14228	C	TYR	E	60	-56.075	-19.097	-70.094	1.00	43.64	E	C
ATOM	14229	O	TYR	E	60	-56.258	-19.299	-71.303	1.00	48.36	E	O
ATOM	14231	N	ALA	E	61	-54.925	-18.650	-69.581	1.00	39.60	E	N
ATOM	14232	CA	ALA	E	61	-53.681	-18.671	-70.338	1.00	44.30	E	C
ATOM	14234	CB	ALA	E	61	-52.512	-18.100	-69.495	1.00	41.20	E	C
ATOM	14238	C	ALA	E	61	-53.399	-20.117	-70.740	1.00	43.61	E	C
ATOM	14239	O	ALA	E	61	-53.798	-21.023	-70.030	1.00	42.09	E	O
ATOM	14241	N	ASP	E	62	-52.707	-20.312	-71.866	1.00	47.34	E	N
ATOM	14242	CA	ASP	E	62	-52.482	-21.646	-72.448	1.00	49.74	E	C
ATOM	14244	CB	ASP	E	62	-51.625	-21.567	-73.709	1.00	53.16	E	C
ATOM	14247	CG	ASP	E	62	-52.415	-21.150	-74.930	1.00	59.02	E	C
ATOM	14248	OD1	ASP	E	62	-51.779	-20.679	-75.895	1.00	64.20	E	O
ATOM	14249	OD2	ASP	E	62	-53.660	-21.293	-74.936	1.00	60.48	E	O
ATOM	14250	C	ASP	E	62	-51.851	-22.644	-71.510	1.00	50.69	E	C
ATOM	14251	O	ASP	E	62	-52.212	-23.815	-71.543	1.00	52.81	E	O
ATOM	14253	N	ASP	E	63	-50.884	-22.215	-70.711	1.00	53.39	E	N
ATOM	14254	CA	ASP	E	63	-50.312	-23.122	-69.732	1.00	54.48	E	C
ATOM	14256	CB	ASP	E	63	-49.120	-22.491	-69.010	1.00	55.86	E	C
ATOM	14259	CG	ASP	E	63	-47.946	-22.247	-69.958	1.00	55.86	E	C
ATOM	14260	OD1	ASP	E	63	-47.974	-22.795	-71.083	1.00	55.72	E	O
ATOM	14261	OD2	ASP	E	63	-47.009	-21.503	-69.596	1.00	56.26	E	O
ATOM	14262	C	ASP	E	63	-51.476	-23.576	-68.857	1.00	55.89	E	C
ATOM	14263	O	ASP	E	63	-52.170	-24.493	-69.233	1.00	64.48	E	O
ATOM	14265	N	PHE	E	64	-51.718	-22.943	-67.730	1.00	53.80	E	N
ATOM	14266	CA	PHE	E	64	-52.923	-23.141	-66.874	1.00	48.72	E	C
ATOM	14268	CB	PHE	E	64	-53.149	-21.830	-66.133	1.00	38.75	E	C
ATOM	14271	CG	PHE	E	64	-51.880	-21.305	-65.554	1.00	39.65	E	C
ATOM	14272	CD1	PHE	E	64	-51.327	-21.907	-64.435	1.00	37.56	E	C
ATOM	14274	CE1	PHE	E	64	-50.111	-21.469	-63.929	1.00	37.84	E	C
ATOM	14276	CZ	PHE	E	64	-49.418	-20.459	-64.568	1.00	36.18	E	C
ATOM	14278	CE2	PHE	E	64	-49.933	-19.888	-65.717	1.00	38.04	E	C
ATOM	14280	CD2	PHE	E	64	-51.146	-20.323	-66.217	1.00	38.51	E	C
ATOM	14282	C	PHE	E	64	-54.266	-23.754	-67.371	1.00	45.07	E	C
ATOM	14283	O	PHE	E	64	-55.254	-23.737	-66.645	1.00	42.26	E	O
ATOM	14285	N	LYS	E	65	-54.299	-24.399	-68.527	1.00	49.62	E	N
ATOM	14286	CA	LYS	E	65	-55.527	-25.082	-68.960	1.00	51.97	E	C
ATOM	14288	CB	LYS	E	65	-55.725	-24.988	-70.468	1.00	49.49	E	C
ATOM	14291	CG	LYS	E	65	-56.444	-23.726	-70.905	1.00	49.30	E	C
ATOM	14294	CD	LYS	E	65	-56.300	-23.511	-72.401	1.00	49.43	E	C
ATOM	14297	CE	LYS	E	65	-57.026	-22.280	-72.878	1.00	46.67	E	C
ATOM	14300	NZ	LYS	E	65	-56.521	-21.878	-74.223	1.00	48.59	E	N
ATOM	14304	C	LYS	E	65	-55.516	-26.533	-68.488	1.00	51.18	E	C
ATOM	14305	O	LYS	E	65	-54.520	-27.231	-68.639	1.00	56.87	E	O
ATOM	14307	N	GLY	E	66	-56.608	-26.946	-67.857	1.00	52.46	E	N
ATOM	14308	CA	GLY	E	66	-56.788	-28.316	-67.380	1.00	51.54	E	C
ATOM	14311	C	GLY	E	66	-56.946	-28.418	-65.876	1.00	48.89	E	C
ATOM	14312	O	GLY	E	66	-58.059	-28.451	-65.367	1.00	49.09	E	O
ATOM	14314	N	ARG	E	67	-55.825	-28.443	-65.160	1.00	48.62	E	N

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ATOM	14315	CA	ARG	E	67	-55.827	-28.650	-63.697	1.00	45.09	E C
ATOM	14317	CB	ARG	E	67	-54.457	-29.127	-63.230	1.00	46.41	E C
ATOM	14320	CG	ARG	E	67	-54.029	-30.436	-63.825	1.00	44.47	E C
ATOM	14323	CD	ARG	E	67	-52.702	-30.869	-63.271	1.00	44.22	E C
ATOM	14326	NE	ARG	E	67	-51.634	-29.902	-63.531	1.00	44.76	E N
ATOM	14328	CZ	ARG	E	67	-50.983	-29.191	-62.601	1.00	44.19	E C
ATOM	14329	NH1	ARG	E	67	-51.275	-29.298	-61.304	1.00	41.02	E N
ATOM	14332	NH2	ARG	E	67	-50.008	-28.373	-62.981	1.00	41.64	E N
ATOM	14335	C	ARG	E	67	-56.174	-27.426	-62.874	1.00	43.05	E C
ATOM	14336	O	ARG	E	67	-56.204	-27.510	-61.650	1.00	43.25	E O
ATOM	14338	N	PHE	E	68	-56.405	-26.290	-63.527	1.00	41.98	E N
ATOM	14339	CA	PHE	E	68	-56.648	-25.027	-62.833	1.00	40.86	E C
ATOM	14341	CB	PHE	E	68	-55.608	-23.982	-63.277	1.00	35.04	E C
ATOM	14344	CG	PHE	E	68	-54.187	-24.378	-62.984	1.00	30.69	E C
ATOM	14345	CD1	PHE	E	68	-53.544	-23.914	-61.831	1.00	32.16	E C
ATOM	14347	CE1	PHE	E	68	-52.240	-24.285	-61.531	1.00	29.16	E C
ATOM	14349	CZ	PHE	E	68	-51.546	-25.121	-62.392	1.00	32.20	E C
ATOM	14351	CE2	PHE	E	68	-52.163	-25.586	-63.562	1.00	32.90	E C
ATOM	14353	CD2	PHE	E	68	-53.491	-25.213	-63.847	1.00	31.07	E C
ATOM	14355	C	PHE	E	68	-58.055	-24.547	-63.136	1.00	39.27	E C
ATOM	14356	O	PHE	E	68	-58.399	-24.352	-64.288	1.00	39.32	E O
ATOM	14358	N	VAL	E	69	-58.871	-24.376	-62.099	1.00	34.48	E N
ATOM	14359	CA	VAL	E	69	-60.259	-24.011	-62.281	1.00	34.18	E C
ATOM	14361	CB	VAL	E	69	-61.187	-25.211	-61.968	1.00	32.10	E C
ATOM	14363	CG1	VAL	E	69	-62.626	-24.815	-62.200	1.00	24.47	E C
ATOM	14367	CG2	VAL	E	69	-60.784	-26.464	-62.801	1.00	25.73	E C
ATOM	14371	C	VAL	E	69	-60.668	-22.838	-61.396	1.00	36.47	E C
ATOM	14372	O	VAL	E	69	-60.450	-22.851	-60.187	1.00	38.21	E O
ATOM	14374	N	PHE	E	70	-61.283	-21.831	-62.010	1.00	38.60	E N
ATOM	14375	CA	PHE	E	70	-61.809	-20.683	-61.286	1.00	36.75	E C
ATOM	14377	CB	PHE	E	70	-61.649	-19.379	-62.089	1.00	35.31	E C
ATOM	14380	CG	PHE	E	70	-60.245	-19.114	-62.609	1.00	31.20	E C
ATOM	14381	CD1	PHE	E	70	-59.123	-19.412	-61.852	1.00	33.19	E C
ATOM	14383	CE1	PHE	E	70	-57.843	-19.138	-62.328	1.00	34.59	E C
ATOM	14385	CZ	PHE	E	70	-57.685	-18.554	-63.570	1.00	33.48	E C
ATOM	14387	CE2	PHE	E	70	-58.813	-18.225	-64.318	1.00	35.51	E C
ATOM	14389	CD2	PHE	E	70	-60.074	-18.503	-63.835	1.00	29.56	E C
ATOM	14391	C	PHE	E	70	-63.284	-20.898	-60.990	1.00	39.33	E C
ATOM	14392	O	PHE	E	70	-63.991	-21.532	-61.758	1.00	42.75	E O
ATOM	14394	N	SER	E	71	-63.737	-20.364	-59.866	1.00	39.96	E N
ATOM	14395	CA	SER	E	71	-65.135	-20.428	-59.496	1.00	38.42	E C
ATOM	14397	CB	SER	E	71	-65.465	-21.781	-58.831	1.00	38.63	E C
ATOM	14400	OG	SER	E	71	-64.755	-22.007	-57.614	1.00	39.81	E O
ATOM	14402	C	SER	E	71	-65.514	-19.239	-58.587	1.00	38.93	E C
ATOM	14403	O	SER	E	71	-64.659	-18.480	-58.157	1.00	37.12	E O
ATOM	14405	N	LEU	E	72	-66.805	-19.094	-58.334	1.00	38.05	E N
ATOM	14406	CA	LEU	E	72	-67.380	-17.956	-57.617	1.00	41.54	E C
ATOM	14408	CB	LEU	E	72	-68.248	-17.093	-58.559	1.00	39.23	E C
ATOM	14411	CG	LEU	E	72	-67.686	-16.085	-59.570	1.00	40.33	E C
ATOM	14413	CD1	LEU	E	72	-66.309	-16.427	-60.036	1.00	36.90	E C
ATOM	14417	CD2	LEU	E	72	-68.625	-15.977	-60.774	1.00	39.55	E C
ATOM	14421	C	LEU	E	72	-68.305	-18.464	-56.517	1.00	44.32	E C
ATOM	14422	O	LEU	E	72	-68.911	-19.527	-56.638	1.00	43.50	E O
ATOM	14424	N	ASP	E	73	-68.416	-17.687	-55.454	1.00	44.97	E N
ATOM	14425	CA	ASP	E	73	-69.580	-17.718	-54.583	1.00	47.54	E C
ATOM	14427	CB	ASP	E	73	-69.231	-18.359	-53.225	1.00	50.00	E C
ATOM	14430	CG	ASP	E	73	-70.442	-18.480	-52.280	1.00	48.17	E C
ATOM	14431	OD1	ASP	E	73	-71.534	-17.959	-52.582	1.00	45.01	E O
ATOM	14432	OD2	ASP	E	73	-70.297	-19.111	-51.214	1.00	48.37	E O
ATOM	14433	C	ASP	E	73	-70.009	-16.264	-54.415	1.00	47.12	E C
ATOM	14434	O	ASP	E	73	-69.557	-15.589	-53.492	1.00	45.12	E O
ATOM	14436	N	THR	E	74	-70.880	-15.795	-55.310	1.00	48.86	E N
ATOM	14437	CA	THR	E	74	-71.311	-14.384	-55.321	1.00	50.38	E C
ATOM	14439	CB	THR	E	74	-72.150	-14.030	-56.566	1.00	47.36	E C
ATOM	14441	OG1	THR	E	74	-73.352	-14.802	-56.581	1.00	49.80	E O
ATOM	14443	CG2	THR	E	74	-71.365	-14.302	-57.839	1.00	46.79	E C
ATOM	14447	C	THR	E	74	-72.052	-13.966	-54.039	1.00	54.37	E C
ATOM	14448	O	THR	E	74	-71.999	-12.798	-53.654	1.00	55.42	E O

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ATOM	14450	N	SER	E	75	-72.707	-14.921	-53.373	1.00	55.61	E	N
ATOM	14451	CA	SER	E	75	-73.390	-14.668	-52.091	1.00	54.10	E	C
ATOM	14453	CB	SER	E	75	-74.097	-15.935	-51.597	1.00	55.62	E	C
ATOM	14456	OG	SER	E	75	-73.156	-16.860	-51.073	1.00	55.54	E	O
ATOM	14458	C	SER	E	75	-72.447	-14.171	-50.983	1.00	53.26	E	C
ATOM	14459	O	SER	E	75	-72.851	-13.378	-50.132	1.00	55.95	E	O
ATOM	14461	N	VAL	E	76	-71.207	-14.654	-50.982	1.00	52.67	E	N
ATOM	14462	CA	VAL	E	76	-70.182	-14.194	-50.032	1.00	49.63	E	C
ATOM	14464	CB	VAL	E	76	-69.563	-15.382	-49.245	1.00	51.83	E	C
ATOM	14466	CG1	VAL	E	76	-70.619	-16.060	-48.371	1.00	52.23	E	C
ATOM	14470	CG2	VAL	E	76	-68.896	-16.395	-50.193	1.00	50.94	E	C
ATOM	14474	C	VAL	E	76	-69.060	-13.368	-50.724	1.00	50.30	E	C
ATOM	14475	O	VAL	E	76	-68.001	-13.110	-50.139	1.00	48.02	E	O
ATOM	14477	N	SER	E	77	-69.314	-12.950	-51.966	1.00	48.54	E	N
ATOM	14478	CA	SER	E	77	-68.359	-12.172	-52.764	1.00	42.48	E	C
ATOM	14480	CB	SER	E	77	-68.292	-10.724	-52.254	1.00	43.10	E	C
ATOM	14483	OG	SER	E	77	-69.557	-10.077	-52.293	1.00	46.06	E	O
ATOM	14485	C	SER	E	77	-66.947	-12.772	-52.766	1.00	38.18	E	C
ATOM	14486	O	SER	E	77	-65.948	-12.056	-52.580	1.00	33.62	E	O
ATOM	14488	N	THR	E	78	-66.852	-14.082	-52.984	1.00	36.07	E	N
ATOM	14489	CA	THR	E	78	-65.541	-14.761	-52.958	1.00	36.13	E	C
ATOM	14491	CB	THR	E	78	-65.421	-15.788	-51.817	1.00	31.40	E	C
ATOM	14493	OG1	THR	E	78	-65.679	-15.131	-50.569	1.00	29.81	E	O
ATOM	14495	CG2	THR	E	78	-64.020	-16.464	-51.784	1.00	28.20	E	C
ATOM	14499	C	THR	E	78	-65.271	-15.437	-54.274	1.00	35.17	E	C
ATOM	14500	O	THR	E	78	-66.188	-15.960	-54.888	1.00	37.01	E	O
ATOM	14502	N	ALA	E	79	-64.017	-15.372	-54.721	1.00	34.93	E	N
ATOM	14503	CA	ALA	E	79	-63.550	-16.091	-55.901	1.00	35.73	E	C
ATOM	14505	CB	ALA	E	79	-62.847	-15.145	-56.872	1.00	34.07	E	C
ATOM	14509	C	ALA	E	79	-62.596	-17.178	-55.450	1.00	35.37	E	C
ATOM	14510	O	ALA	E	79	-61.887	-17.028	-54.444	1.00	33.85	E	O
ATOM	14512	N	TYR	E	80	-62.558	-18.267	-56.208	1.00	37.57	E	N
ATOM	14513	CA	TYR	E	80	-61.775	-19.437	-55.828	1.00	37.96	E	C
ATOM	14515	CB	TYR	E	80	-62.702	-20.604	-55.421	1.00	39.43	E	C
ATOM	14518	CG	TYR	E	80	-63.570	-20.287	-54.224	1.00	39.80	E	C
ATOM	14519	CD1	TYR	E	80	-63.094	-20.454	-52.932	1.00	39.74	E	C
ATOM	14521	CE1	TYR	E	80	-63.893	-20.153	-51.832	1.00	41.06	E	C
ATOM	14523	CZ	TYR	E	80	-65.164	-19.662	-52.036	1.00	39.50	E	C
ATOM	14524	OH	TYR	E	80	-65.959	-19.339	-50.958	1.00	42.12	E	O
ATOM	14526	CE2	TYR	E	80	-65.645	-19.484	-53.309	1.00	36.33	E	C
ATOM	14528	CD2	TYR	E	80	-64.856	-19.778	-54.386	1.00	35.56	E	C
ATOM	14530	C	TYR	E	80	-60.866	-19.889	-56.946	1.00	36.32	E	C
ATOM	14531	O	TYR	E	80	-61.174	-19.735	-58.117	1.00	39.34	E	O
ATOM	14533	N	LEU	E	81	-59.736	-20.456	-56.570	1.00	41.21	E	N
ATOM	14534	CA	LEU	E	81	-58.854	-21.121	-57.525	1.00	41.17	E	C
ATOM	14536	CB	LEU	E	81	-57.500	-20.421	-57.593	1.00	40.03	E	C
ATOM	14539	CG	LEU	E	81	-56.354	-21.133	-58.314	1.00	42.20	E	C
ATOM	14541	CD1	LEU	E	81	-56.746	-21.493	-59.749	1.00	40.83	E	C
ATOM	14545	CD2	LEU	E	81	-55.106	-20.248	-58.291	1.00	40.29	E	C
ATOM	14549	C	LEU	E	81	-58.689	-22.541	-57.034	1.00	42.62	E	C
ATOM	14550	O	LEU	E	81	-58.222	-22.757	-55.920	1.00	41.20	E	O
ATOM	14552	N	GLN	E	82	-59.110	-23.497	-57.857	1.00	49.03	E	N
ATOM	14553	CA	GLN	E	82	-58.985	-24.917	-57.551	1.00	45.41	E	C
ATOM	14555	CB	GLN	E	82	-60.336	-25.634	-57.816	1.00	57.07	E	C
ATOM	14558	CG	GLN	E	82	-60.311	-27.087	-58.423	1.00	60.15	E	C
ATOM	14561	CD	GLN	E	82	-60.228	-28.221	-57.392	1.00	66.10	E	C
ATOM	14562	OE1	GLN	E	82	-60.321	-27.999	-56.175	1.00	67.78	E	O
ATOM	14563	NE2	GLN	E	82	-60.052	-29.455	-57.890	1.00	64.18	E	N
ATOM	14566	C	GLN	E	82	-57.858	-25.447	-58.417	1.00	41.20	E	C
ATOM	14567	O	GLN	E	82	-57.908	-25.298	-59.638	1.00	41.12	E	O
ATOM	14569	N	ILE	E	83	-56.830	-26.015	-57.786	1.00	38.48	E	N
ATOM	14570	CA	ILE	E	83	-55.720	-26.665	-58.509	1.00	43.11	E	C
ATOM	14572	CB	ILE	E	83	-54.289	-26.113	-58.147	1.00	43.13	E	C
ATOM	14574	CG1	ILE	E	83	-54.252	-24.585	-58.012	1.00	41.96	E	C
ATOM	14577	CD1	ILE	E	83	-52.895	-24.067	-57.494	1.00	41.44	E	C
ATOM	14581	CG2	ILE	E	83	-53.263	-26.597	-59.183	1.00	38.32	E	C
ATOM	14585	C	ILE	E	83	-55.732	-28.146	-58.154	1.00	44.91	E	C
ATOM	14586	O	ILE	E	83	-55.727	-28.504	-56.972	1.00	46.38	E	O

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ATOM	14588	N	SER	E	84	-55.727	-29.005	-59.166	1.00	47.61	E	N
ATOM	14589	CA	SER	E	84	-55.842	-30.444	-58.926	1.00	50.09	E	C
ATOM	14591	CB	SER	E	84	-57.138	-31.007	-59.544	1.00	52.24	E	C
ATOM	14594	OG	SER	E	84	-57.114	-31.013	-60.974	1.00	54.10	E	O
ATOM	14596	C	SER	E	84	-54.611	-31.171	-59.448	1.00	50.02	E	C
ATOM	14597	O	SER	E	84	-53.852	-30.628	-60.250	1.00	48.72	E	O
ATOM	14599	N	SER	E	85	-54.409	-32.400	-58.973	1.00	52.61	E	N
ATOM	14600	CA	SER	E	85	-53.263	-33.213	-59.385	1.00	50.91	E	C
ATOM	14602	CB	SER	E	85	-53.438	-33.647	-60.857	1.00	55.63	E	C
ATOM	14605	OG	SER	E	85	-52.234	-34.121	-61.439	1.00	62.22	E	O
ATOM	14607	C	SER	E	85	-51.952	-32.458	-59.136	1.00	50.28	E	C
ATOM	14608	O	SER	E	85	-51.069	-32.401	-59.987	1.00	45.42	E	O
ATOM	14610	N	LEU	E	86	-51.844	-31.912	-57.926	1.00	50.81	E	N
ATOM	14611	CA	LEU	E	86	-50.721	-31.063	-57.523	1.00	46.89	E	C
ATOM	14613	CB	LEU	E	86	-50.865	-30.697	-56.037	1.00	44.22	E	C
ATOM	14616	CG	LEU	E	86	-51.415	-29.317	-55.674	1.00	44.35	E	C
ATOM	14618	CD1	LEU	E	86	-52.055	-28.588	-56.842	1.00	41.59	E	C
ATOM	14622	CD2	LEU	E	86	-52.350	-29.381	-54.478	1.00	42.03	E	C
ATOM	14626	C	LEU	E	86	-49.355	-31.705	-57.773	1.00	48.62	E	C
ATOM	14627	O	LEU	E	86	-49.159	-32.892	-57.513	1.00	49.33	E	O
ATOM	14629	N	LYS	E	87	-48.424	-30.892	-58.281	1.00	51.22	E	N
ATOM	14630	CA	LYS	E	87	-47.028	-31.277	-58.475	1.00	52.55	E	C
ATOM	14632	CB	LYS	E	87	-46.669	-31.317	-59.970	1.00	52.12	E	C
ATOM	14635	CG	LYS	E	87	-47.865	-31.471	-60.892	1.00	54.13	E	C
ATOM	14638	CD	LYS	E	87	-47.483	-31.696	-62.353	1.00	54.32	E	C
ATOM	14641	CE	LYS	E	87	-48.699	-32.178	-63.179	1.00	57.56	E	C
ATOM	14644	NZ	LYS	E	87	-49.545	-33.242	-62.493	1.00	55.90	E	N
ATOM	14648	C	LYS	E	87	-46.117	-30.274	-57.770	1.00	53.53	E	C
ATOM	14649	O	LYS	E	87	-46.536	-29.150	-57.476	1.00	50.55	E	O
ATOM	14651	N	ALA	E	88	-44.881	-30.704	-57.512	1.00	49.97	E	N
ATOM	14652	CA	ALA	E	88	-43.857	-29.922	-56.814	1.00	48.83	E	C
ATOM	14654	CB	ALA	E	88	-42.521	-30.679	-56.845	1.00	45.57	E	C
ATOM	14658	C	ALA	E	88	-43.683	-28.549	-57.433	1.00	48.67	E	C
ATOM	14659	O	ALA	E	88	-43.478	-27.561	-56.724	1.00	50.91	E	O
ATOM	14661	N	GLU	E	89	-43.782	-28.505	-58.759	1.00	47.99	E	N
ATOM	14662	CA	GLU	E	89	-43.601	-27.280	-59.541	1.00	46.76	E	C
ATOM	14664	CB	GLU	E	89	-43.358	-27.645	-61.011	1.00	53.20	E	C
ATOM	14667	CG	GLU	E	89	-42.012	-28.393	-61.288	1.00	62.65	E	C
ATOM	14670	CD	GLU	E	89	-42.033	-29.929	-61.027	1.00	66.49	E	C
ATOM	14671	OE1	GLU	E	89	-43.075	-30.591	-61.252	1.00	68.00	E	O
ATOM	14672	OE2	GLU	E	89	-40.983	-30.477	-60.610	1.00	68.43	E	O
ATOM	14673	C	GLU	E	89	-44.761	-26.265	-59.433	1.00	44.50	E	C
ATOM	14674	O	GLU	E	89	-44.672	-25.163	-59.970	1.00	47.36	E	O
ATOM	14676	N	ASP	E	90	-45.837	-26.642	-58.746	1.00	39.67	E	N
ATOM	14677	CA	ASP	E	90	-46.972	-25.760	-58.506	1.00	40.34	E	C
ATOM	14679	CB	ASP	E	90	-48.284	-26.562	-58.459	1.00	38.92	E	C
ATOM	14682	CG	ASP	E	90	-48.674	-27.121	-59.799	1.00	39.21	E	C
ATOM	14683	OD1	ASP	E	90	-48.430	-26.455	-60.823	1.00	46.00	E	O
ATOM	14684	OD2	ASP	E	90	-49.261	-28.218	-59.830	1.00	39.91	E	O
ATOM	14685	C	ASP	E	90	-46.808	-24.969	-57.217	1.00	35.89	E	C
ATOM	14686	O	ASP	E	90	-47.631	-24.111	-56.931	1.00	36.06	E	O
ATOM	14688	N	THR	E	91	-45.768	-25.298	-56.448	1.00	36.99	E	N
ATOM	14689	CA	THR	E	91	-45.336	-24.519	-55.290	1.00	40.24	E	C
ATOM	14691	CB	THR	E	91	-44.064	-25.173	-54.623	1.00	41.15	E	C
ATOM	14693	OG1	THR	E	91	-44.406	-26.470	-54.098	1.00	37.34	E	O
ATOM	14695	CG2	THR	E	91	-43.472	-24.283	-53.510	1.00	33.61	E	C
ATOM	14699	C	THR	E	91	-45.054	-23.070	-55.739	1.00	40.83	E	C
ATOM	14700	O	THR	E	91	-44.135	-22.815	-56.530	1.00	37.31	E	O
ATOM	14702	N	ALA	E	92	-45.874	-22.145	-55.251	1.00	38.52	E	N
ATOM	14703	CA	ALA	E	92	-45.863	-20.797	-55.740	1.00	37.15	E	C
ATOM	14705	CB	ALA	E	92	-46.258	-20.788	-57.221	1.00	32.36	E	C
ATOM	14709	C	ALA	E	92	-46.815	-19.960	-54.907	1.00	38.29	E	C
ATOM	14710	O	ALA	E	92	-47.651	-20.503	-54.184	1.00	41.95	E	O
ATOM	14712	N	VAL	E	93	-46.663	-18.639	-54.974	1.00	42.19	E	N
ATOM	14713	CA	VAL	E	93	-47.653	-17.723	-54.400	1.00	35.38	E	C
ATOM	14715	CB	VAL	E	93	-47.033	-16.387	-53.965	1.00	30.41	E	C
ATOM	14717	CG1	VAL	E	93	-48.129	-15.376	-53.512	1.00	24.07	E	C
ATOM	14721	CG2	VAL	E	93	-46.006	-16.631	-52.841	1.00	25.96	E	C

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ATOM	14725	C	VAL	E	93	-48.704	-17.509	-55.474	1.00	36.78	E	C
ATOM	14726	O	VAL	E	93	-48.374	-17.304	-56.647	1.00	37.05	E	O
ATOM	14728	N	TYR	E	94	-49.967	-17.573	-55.067	1.00	37.05	E	N
ATOM	14729	CA	TYR	E	94	-51.064	-17.297	-55.953	1.00	34.57	E	C
ATOM	14731	CB	TYR	E	94	-52.018	-18.515	-56.044	1.00	32.33	E	C
ATOM	14734	CG	TYR	E	94	-51.368	-19.719	-56.650	1.00	26.57	E	C
ATOM	14735	CD1	TYR	E	94	-51.471	-19.987	-58.013	1.00	31.40	E	C
ATOM	14737	CE1	TYR	E	94	-50.837	-21.097	-58.578	1.00	30.94	E	C
ATOM	14739	CZ	TYR	E	94	-50.096	-21.935	-57.762	1.00	28.98	E	C
ATOM	14740	OH	TYR	E	94	-49.454	-23.037	-58.266	1.00	32.20	E	O
ATOM	14742	CE2	TYR	E	94	-49.983	-21.674	-56.419	1.00	27.72	E	C
ATOM	14744	CD2	TYR	E	94	-50.621	-20.574	-55.876	1.00	26.74	E	C
ATOM	14746	C	TYR	E	94	-51.788	-16.047	-55.468	1.00	35.47	E	C
ATOM	14747	O	TYR	E	94	-52.208	-15.974	-54.322	1.00	33.58	E	O
ATOM	14749	N	TYR	E	95	-51.938	-15.088	-56.377	1.00	35.87	E	N
ATOM	14750	CA	TYR	E	95	-52.624	-13.842	-56.123	1.00	34.70	E	C
ATOM	14752	CB	TYR	E	95	-51.774	-12.655	-56.634	1.00	34.79	E	C
ATOM	14755	CG	TYR	E	95	-50.404	-12.515	-55.989	1.00	31.59	E	C
ATOM	14756	CD1	TYR	E	95	-50.232	-11.788	-54.820	1.00	33.27	E	C
ATOM	14758	CE1	TYR	E	95	-48.992	-11.663	-54.231	1.00	35.33	E	C
ATOM	14760	CZ	TYR	E	95	-47.894	-12.271	-54.818	1.00	35.34	E	C
ATOM	14761	OH	TYR	E	95	-46.640	-12.157	-54.251	1.00	34.91	E	O
ATOM	14763	CE2	TYR	E	95	-48.041	-12.970	-55.985	1.00	34.39	E	C
ATOM	14765	CD2	TYR	E	95	-49.287	-13.094	-56.560	1.00	34.44	E	C
ATOM	14767	C	TYR	E	95	-53.926	-13.818	-56.867	1.00	34.24	E	C
ATOM	14768	O	TYR	E	95	-54.034	-14.379	-57.935	1.00	30.86	E	O
ATOM	14770	N	CYS	E	96	-54.915	-13.136	-56.297	1.00	39.15	E	N
ATOM	14771	CA	CYS	E	96	-56.054	-12.634	-57.056	1.00	36.84	E	C
ATOM	14773	CB	CYS	E	96	-57.347	-12.894	-56.305	1.00	34.36	E	C
ATOM	14776	SG	CYS	E	96	-57.469	-12.112	-54.703	1.00	30.90	E	S
ATOM	14778	C	CYS	E	96	-55.837	-11.149	-57.270	1.00	35.76	E	C
ATOM	14779	O	CYS	E	96	-55.327	-10.474	-56.398	1.00	34.26	E	O
ATOM	14781	N	GLU	E	97	-56.168	-10.665	-58.458	1.00	35.16	E	N
ATOM	14782	CA	GLU	E	97	-56.138	-9.248	-58.776	1.00	34.01	E	C
ATOM	14784	CB	GLU	E	97	-55.032	-8.931	-59.782	1.00	32.55	E	C
ATOM	14787	CG	GLU	E	97	-54.969	-7.472	-60.235	1.00	28.75	E	C
ATOM	14790	CD	GLU	E	97	-54.193	-7.272	-61.526	1.00	30.95	E	C
ATOM	14791	OE1	GLU	E	97	-54.283	-8.124	-62.413	1.00	33.45	E	O
ATOM	14792	OE2	GLU	E	97	-53.493	-6.249	-61.670	1.00	35.22	E	O
ATOM	14793	C	GLU	E	97	-57.473	-8.895	-59.371	1.00	29.38	E	C
ATOM	14794	O	GLU	E	97	-57.901	-9.511	-60.344	1.00	30.20	E	O
ATOM	14796	N	ARG	E	98	-58.135	-7.920	-58.775	1.00	26.13	E	N
ATOM	14797	CA	ARG	E	98	-59.344	-7.367	-59.325	1.00	31.32	E	C
ATOM	14799	CB	ARG	E	98	-59.960	-6.473	-58.255	1.00	29.42	E	C
ATOM	14802	CG	ARG	E	98	-61.218	-5.720	-58.636	1.00	25.79	E	C
ATOM	14805	CD	ARG	E	98	-60.959	-4.254	-58.396	1.00	30.55	E	C
ATOM	14808	NE	ARG	E	98	-62.023	-3.624	-57.670	1.00	31.90	E	N
ATOM	14810	CZ	ARG	E	98	-62.065	-2.347	-57.321	1.00	29.65	E	C
ATOM	14811	NH1	ARG	E	98	-61.076	-1.501	-57.612	1.00	29.20	E	N
ATOM	14814	NH2	ARG	E	98	-63.132	-1.927	-56.669	1.00	30.50	E	N
ATOM	14817	C	ARG	E	98	-59.061	-6.591	-60.630	1.00	32.85	E	C
ATOM	14818	O	ARG	E	98	-58.128	-5.762	-60.698	1.00	32.22	E	O
ATOM	14820	N	GLU	E	99	-59.879	-6.869	-61.652	1.00	35.14	E	N
ATOM	14821	CA	GLU	E	99	-59.702	-6.335	-63.021	1.00	36.06	E	C
ATOM	14823	CB	GLU	E	99	-60.130	-7.399	-64.035	1.00	30.28	E	C
ATOM	14826	CG	GLU	E	99	-60.001	-6.984	-65.476	1.00	27.31	E	C
ATOM	14829	CD	GLU	E	99	-58.652	-6.394	-65.796	1.00	26.54	E	C
ATOM	14830	OE1	GLU	E	99	-57.632	-6.732	-65.126	1.00	31.02	E	O
ATOM	14831	OE2	GLU	E	99	-58.608	-5.606	-66.744	1.00	24.43	E	O
ATOM	14832	C	GLU	E	99	-60.561	-5.078	-63.011	1.00	39.92	E	C
ATOM	14833	O	GLU	E	99	-61.768	-5.129	-63.258	1.00	46.26	E	O
ATOM	14835	N	GLY	E	100	-59.897	-3.931	-62.880	1.00	44.00	E	N
ATOM	14836	CA	GLY	E	100	-60.090	-2.709	-63.615	1.00	41.67	E	C
ATOM	14839	C	GLY	E	100	-60.326	-1.775	-62.401	1.00	42.26	E	C
ATOM	14840	O	GLY	E	100	-60.464	-2.226	-61.251	1.00	47.60	E	O
ATOM	14842	N	GLY	E	101	-60.355	-0.475	-62.620	1.00	40.74	E	N
ATOM	14843	CA	GLY	E	101	-60.479	0.469	-61.512	1.00	38.89	E	C
ATOM	14846	C	GLY	E	101	-59.158	0.669	-60.789	1.00	39.72	E	C

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ATOM	14847	O	GLY	E	101	-58.113	0.242	-61.282	1.00	37.01	E	O
ATOM	14849	N	VAL	E	108	-59.217	1.339	-59.629	1.00	36.57	E	N
ATOM	14850	CA	VAL	E	108	-58.059	1.498	-58.762	1.00	33.15	E	C
ATOM	14852	CB	VAL	E	108	-58.370	2.226	-57.395	1.00	27.55	E	C
ATOM	14854	CG1	VAL	E	108	-57.192	2.078	-56.380	1.00	24.81	E	C
ATOM	14858	CG2	VAL	E	108	-58.635	3.681	-57.606	1.00	25.71	E	C
ATOM	14862	C	VAL	E	108	-57.524	0.106	-58.493	1.00	32.43	E	C
ATOM	14863	O	VAL	E	108	-58.220	-0.745	-57.970	1.00	35.21	E	O
ATOM	14865	N	ASN	E	109	-56.284	-0.126	-58.872	1.00	32.21	E	N
ATOM	14866	CA	ASN	E	109	-55.751	-1.498	-58.991	1.00	33.12	E	C
ATOM	14868	CB	ASN	E	109	-54.472	-1.489	-59.830	1.00	21.29	E	C
ATOM	14871	CG	ASN	E	109	-54.026	-2.864	-60.237	1.00	25.00	E	C
ATOM	14872	OD1	ASN	E	109	-54.638	-3.485	-61.107	1.00	29.36	E	O
ATOM	14873	ND2	ASN	E	109	-52.944	-3.353	-59.632	1.00	17.36	E	N
ATOM	14876	C	ASN	E	109	-55.493	-2.157	-57.636	1.00	34.60	E	C
ATOM	14877	O	ASN	E	109	-54.688	-1.689	-56.863	1.00	28.84	E	O
ATOM	14879	N	ASN	E	110	-56.200	-3.252	-57.367	1.00	37.92	E	N
ATOM	14880	CA	ASN	E	110	-56.147	-3.904	-56.082	1.00	35.37	E	C
ATOM	14882	CB	ASN	E	110	-57.473	-3.754	-55.345	1.00	36.56	E	C
ATOM	14885	CG	ASN	E	110	-57.565	-2.459	-54.565	1.00	32.82	E	C
ATOM	14886	OD1	ASN	E	110	-57.090	-2.377	-53.443	1.00	34.22	E	O
ATOM	14887	ND2	ASN	E	110	-58.187	-1.445	-55.157	1.00	30.04	E	N
ATOM	14890	C	ASN	E	110	-55.785	-5.372	-56.212	1.00	34.33	E	C
ATOM	14891	O	ASN	E	110	-56.334	-6.074	-57.033	1.00	35.55	E	O
ATOM	14893	N	TRP	E	111	-54.862	-5.804	-55.353	1.00	34.26	E	N
ATOM	14894	CA	TRP	E	111	-54.376	-7.168	-55.287	1.00	34.54	E	C
ATOM	14896	CB	TRP	E	111	-52.862	-7.231	-55.499	1.00	27.98	E	C
ATOM	14899	CG	TRP	E	111	-52.417	-7.018	-56.901	1.00	25.99	E	C
ATOM	14900	CD1	TRP	E	111	-52.573	-5.892	-57.646	1.00	25.54	E	C
ATOM	14902	NE1	TRP	E	111	-52.048	-6.073	-58.889	1.00	25.21	E	N
ATOM	14904	CE2	TRP	E	111	-51.527	-7.331	-58.971	1.00	20.53	E	C
ATOM	14905	CD2	TRP	E	111	-51.740	-7.955	-57.729	1.00	25.45	E	C
ATOM	14906	CE3	TRP	E	111	-51.304	-9.275	-57.548	1.00	22.78	E	C
ATOM	14908	CZ3	TRP	E	111	-50.674	-9.898	-58.582	1.00	24.49	E	C
ATOM	14910	CH2	TRP	E	111	-50.472	-9.242	-59.820	1.00	25.46	E	C
ATOM	14912	CZ2	TRP	E	111	-50.894	-7.966	-60.026	1.00	22.46	E	C
ATOM	14914	C	TRP	E	111	-54.674	-7.753	-53.910	1.00	37.06	E	C
ATOM	14915	O	TRP	E	111	-54.642	-7.042	-52.894	1.00	31.60	E	O
ATOM	14917	N	GLY	E	112	-54.994	-9.042	-53.896	1.00	35.05	E	N
ATOM	14918	CA	GLY	E	112	-54.944	-9.828	-52.674	1.00	37.99	E	C
ATOM	14921	C	GLY	E	112	-53.503	-9.972	-52.194	1.00	37.92	E	C
ATOM	14922	O	GLY	E	112	-52.560	-9.660	-52.924	1.00	36.55	E	O
ATOM	14924	N	GLN	E	113	-53.330	-10.439	-50.963	1.00	35.53	E	N
ATOM	14925	CA	GLN	E	113	-52.000	-10.499	-50.354	1.00	33.00	E	C
ATOM	14927	CB	GLN	E	113	-52.082	-10.474	-48.813	1.00	32.94	E	C
ATOM	14930	CG	GLN	E	113	-52.224	-11.851	-48.078	1.00	32.86	E	C
ATOM	14933	CD	GLN	E	113	-53.648	-12.373	-48.036	1.00	31.15	E	C
ATOM	14934	OE1	GLN	E	113	-54.494	-11.960	-48.813	1.00	31.61	E	O
ATOM	14935	NE2	GLN	E	113	-53.917	-13.290	-47.115	1.00	33.20	E	N
ATOM	14938	C	GLN	E	113	-51.161	-11.707	-50.826	1.00	36.26	E	C
ATOM	14939	O	GLN	E	113	-49.972	-11.802	-50.536	1.00	35.38	E	O
ATOM	14941	N	GLY	E	114	-51.791	-12.642	-51.529	1.00	37.44	E	N
ATOM	14942	CA	GLY	E	114	-51.108	-13.856	-51.940	1.00	36.56	E	C
ATOM	14945	C	GLY	E	114	-51.358	-15.040	-50.996	1.00	39.49	E	C
ATOM	14946	O	GLY	E	114	-51.578	-14.865	-49.783	1.00	38.63	E	O
ATOM	14948	N	THR	E	115	-51.341	-16.242	-51.580	1.00	35.01	E	N
ATOM	14949	CA	THR	E	115	-51.414	-17.502	-50.854	1.00	37.30	E	C
ATOM	14951	CB	THR	E	115	-52.741	-18.266	-51.171	1.00	35.88	E	C
ATOM	14953	OG1	THR	E	115	-53.867	-17.469	-50.784	1.00	40.55	E	O
ATOM	14955	CG2	THR	E	115	-52.808	-19.623	-50.456	1.00	29.52	E	C
ATOM	14959	C	THR	E	115	-50.210	-18.366	-51.273	1.00	35.14	E	C
ATOM	14960	O	THR	E	115	-50.033	-18.655	-52.454	1.00	34.05	E	O
ATOM	14962	N	LEU	E	116	-49.362	-18.765	-50.331	1.00	39.33	E	N
ATOM	14963	CA	LEU	E	116	-48.267	-19.693	-50.679	1.00	39.29	E	C
ATOM	14965	CB	LEU	E	116	-47.018	-19.524	-49.797	1.00	35.73	E	C
ATOM	14968	CG	LEU	E	116	-45.782	-20.438	-50.008	1.00	35.92	E	C
ATOM	14970	CD1	LEU	E	116	-45.211	-20.456	-51.438	1.00	31.15	E	C
ATOM	14974	CD2	LEU	E	116	-44.677	-20.010	-49.046	1.00	34.91	E	C

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ATOM	14978	C	LEU	E	116	-48.789	-21.108	-50.569	1.00	41.42	E	C
ATOM	14979	O	LEU	E	116	-49.171	-21.546	-49.501	1.00	44.68	E	O
ATOM	14981	N	VAL	E	117	-48.827	-21.814	-51.690	1.00	43.77	E	N
ATOM	14982	CA	VAL	E	117	-49.128	-23.225	-51.684	1.00	39.78	E	C
ATOM	14984	CB	VAL	E	117	-50.098	-23.629	-52.833	1.00	39.32	E	C
ATOM	14986	CG1	VAL	E	117	-50.198	-25.160	-52.973	1.00	35.09	E	C
ATOM	14990	CG2	VAL	E	117	-51.476	-23.029	-52.612	1.00	33.99	E	C
ATOM	14994	C	VAL	E	117	-47.813	-23.950	-51.847	1.00	41.25	E	C
ATOM	14995	O	VAL	E	117	-47.117	-23.733	-52.822	1.00	41.92	E	O
ATOM	14997	N	THR	E	118	-47.452	-24.781	-50.872	1.00	44.17	E	N
ATOM	14998	CA	THR	E	118	-46.302	-25.690	-51.014	1.00	43.92	E	C
ATOM	15000	CB	THR	E	118	-45.457	-25.744	-49.743	1.00	39.82	E	C
ATOM	15002	OG1	THR	E	118	-45.150	-24.411	-49.347	1.00	41.89	E	O
ATOM	15004	CG2	THR	E	118	-44.171	-26.519	-49.979	1.00	34.11	E	C
ATOM	15008	C	THR	E	118	-46.765	-27.122	-51.327	1.00	44.43	E	C
ATOM	15009	O	THR	E	118	-47.655	-27.657	-50.661	1.00	41.73	E	O
ATOM	15011	N	VAL	E	119	-46.139	-27.739	-52.334	1.00	47.80	E	N
ATOM	15012	CA	VAL	E	119	-46.458	-29.110	-52.703	1.00	47.06	E	C
ATOM	15014	CB	VAL	E	119	-46.756	-29.236	-54.222	1.00	45.63	E	C
ATOM	15016	CG1	VAL	E	119	-46.876	-30.691	-54.640	1.00	44.86	E	C
ATOM	15020	CG2	VAL	E	119	-48.033	-28.496	-54.577	1.00	47.38	E	C
ATOM	15024	C	VAL	E	119	-45.305	-30.042	-52.316	1.00	47.73	E	C
ATOM	15025	O	VAL	E	119	-44.262	-30.054	-52.969	1.00	46.38	E	O
ATOM	15027	N	SER	E	120	-45.506	-30.821	-51.251	1.00	49.15	E	N
ATOM	15028	CA	SER	E	120	-44.473	-31.728	-50.733	1.00	49.42	E	C
ATOM	15030	CB	SER	E	120	-43.504	-30.984	-49.784	1.00	47.54	E	C
ATOM	15033	OG	SER	E	120	-42.550	-31.865	-49.174	1.00	41.99	E	O
ATOM	15035	C	SER	E	120	-45.060	-32.940	-50.009	1.00	46.37	E	C
ATOM	15036	O	SER	E	120	-46.167	-32.891	-49.462	1.00	46.44	E	O
ATOM	15038	N	SER	E	121	-44.291	-34.027	-49.998	1.00	49.64	E	N
ATOM	15039	CA	SER	E	121	-44.607	-35.191	-49.150	1.00	49.71	E	C
ATOM	15041	CB	SER	E	121	-44.002	-36.486	-49.716	1.00	51.18	E	C
ATOM	15044	OG	SER	E	121	-42.582	-36.461	-49.741	1.00	49.64	E	O
ATOM	15046	C	SER	E	121	-44.177	-34.991	-47.694	1.00	46.18	E	C
ATOM	15047	O	SER	E	121	-44.596	-35.747	-46.842	1.00	46.66	E	O
ATOM	15049	N	ALA	E	122	-43.373	-33.969	-47.395	1.00	46.06	E	N
ATOM	15050	CA	ALA	E	122	-42.976	-33.700	-46.013	1.00	45.55	E	C
ATOM	15052	CB	ALA	E	122	-41.806	-32.751	-45.971	1.00	38.99	E	C
ATOM	15056	C	ALA	E	122	-44.136	-33.148	-45.163	1.00	48.52	E	C
ATOM	15057	O	ALA	E	122	-45.089	-32.520	-45.672	1.00	50.81	E	O
ATOM	15059	N	SER	E	123	-44.033	-33.365	-43.857	1.00	48.54	E	N
ATOM	15060	CA	SER	E	123	-45.051	-32.914	-42.923	1.00	47.58	E	C
ATOM	15062	CB	SER	E	123	-45.196	-33.925	-41.763	1.00	52.59	E	C
ATOM	15065	OG	SER	E	123	-45.569	-35.217	-42.225	1.00	51.67	E	O
ATOM	15067	C	SER	E	123	-44.767	-31.533	-42.325	1.00	47.84	E	C
ATOM	15068	O	SER	E	123	-43.621	-31.073	-42.292	1.00	46.20	E	O
ATOM	15070	N	THR	E	124	-45.834	-30.903	-41.831	1.00	45.49	E	N
ATOM	15071	CA	THR	E	124	-45.761	-29.639	-41.104	1.00	45.71	E	C
ATOM	15073	CB	THR	E	124	-47.157	-29.117	-40.701	1.00	44.96	E	C
ATOM	15075	OG1	THR	E	124	-47.999	-29.013	-41.854	1.00	51.69	E	O
ATOM	15077	CG2	THR	E	124	-47.046	-27.762	-40.045	1.00	46.06	E	C
ATOM	15081	C	THR	E	124	-44.978	-29.758	-39.793	1.00	45.90	E	C
ATOM	15082	O	THR	E	124	-45.248	-30.642	-38.979	1.00	42.71	E	O
ATOM	15084	N	LYS	E	125	-44.043	-28.831	-39.594	1.00	46.29	E	N
ATOM	15085	CA	LYS	E	125	-43.340	-28.668	-38.336	1.00	44.38	E	C
ATOM	15087	CB	LYS	E	125	-41.917	-29.252	-38.421	1.00	50.21	E	C
ATOM	15090	CG	LYS	E	125	-41.441	-29.922	-37.114	1.00	53.82	E	C
ATOM	15093	CD	LYS	E	125	-39.992	-29.555	-36.714	1.00	53.81	E	C
ATOM	15096	CE	LYS	E	125	-39.871	-29.173	-35.209	1.00	55.45	E	C
ATOM	15099	NZ	LYS	E	125	-38.860	-28.081	-34.950	1.00	53.92	E	N
ATOM	15103	C	LYS	E	125	-43.274	-27.179	-38.001	1.00	42.78	E	C
ATOM	15104	O	LYS	E	125	-42.865	-26.360	-38.836	1.00	42.26	E	O
ATOM	15106	N	GLY	E	126	-43.681	-26.838	-36.779	1.00	42.44	E	N
ATOM	15107	CA	GLY	E	126	-43.591	-25.479	-36.272	1.00	41.40	E	C
ATOM	15110	C	GLY	E	126	-42.166	-25.155	-35.848	1.00	39.81	E	C
ATOM	15111	O	GLY	E	126	-41.406	-26.042	-35.465	1.00	41.35	E	O
ATOM	15113	N	PRO	E	127	-41.794	-23.876	-35.900	1.00	39.16	E	N
ATOM	15114	CA	PRO	E	127	-40.442	-23.466	-35.596	1.00	40.96	E	C

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ATOM	15116	CB	PRO	E	127	-40.413	-22.044	-36.133	1.00	37.18	E	C
ATOM	15119	CG	PRO	E	127	-41.748	-21.562	-35.901	1.00	35.16	E	C
ATOM	15122	CD	PRO	E	127	-42.639	-22.717	-36.221	1.00	39.03	E	C
ATOM	15125	C	PRO	E	127	-40.157	-23.434	-34.105	1.00	43.12	E	C
ATOM	15126	O	PRO	E	127	-41.058	-23.203	-33.315	1.00	45.66	E	O
ATOM	15127	N	SER	E	128	-38.897	-23.638	-33.741	1.00	44.39	E	N
ATOM	15128	CA	SER	E	128	-38.395	-23.296	-32.411	1.00	43.86	E	C
ATOM	15130	CB	SER	E	128	-37.286	-24.242	-31.939	1.00	47.47	E	C
ATOM	15133	OG	SER	E	128	-37.761	-25.541	-31.642	1.00	51.43	E	O
ATOM	15135	C	SER	E	128	-37.822	-21.893	-32.541	1.00	42.79	E	C
ATOM	15136	O	SER	E	128	-37.161	-21.585	-33.534	1.00	46.06	E	O
ATOM	15138	N	VAL	E	129	-38.063	-21.049	-31.540	1.00	44.43	E	N
ATOM	15139	CA	VAL	E	129	-37.590	-19.664	-31.561	1.00	44.41	E	C
ATOM	15141	CB	VAL	E	129	-38.762	-18.649	-31.434	1.00	39.90	E	C
ATOM	15143	CG1	VAL	E	129	-38.262	-17.237	-31.682	1.00	36.35	E	C
ATOM	15147	CG2	VAL	E	129	-39.852	-18.986	-32.421	1.00	33.72	E	C
ATOM	15151	C	VAL	E	129	-36.551	-19.453	-30.460	1.00	47.66	E	C
ATOM	15152	O	VAL	E	129	-36.792	-19.801	-29.296	1.00	54.26	E	O
ATOM	15154	N	PHE	E	130	-35.385	-18.931	-30.843	1.00	47.05	E	N
ATOM	15155	CA	PHE	E	130	-34.258	-18.772	-29.928	1.00	43.47	E	C
ATOM	15157	CB	PHE	E	130	-33.126	-19.752	-30.261	1.00	40.82	E	C
ATOM	15160	CG	PHE	E	130	-33.563	-21.179	-30.267	1.00	41.74	E	C
ATOM	15161	CD1	PHE	E	130	-34.246	-21.708	-29.172	1.00	40.97	E	C
ATOM	15163	CE1	PHE	E	130	-34.681	-23.020	-29.171	1.00	39.80	E	C
ATOM	15165	CZ	PHE	E	130	-34.430	-23.820	-30.277	1.00	41.73	E	C
ATOM	15167	CE2	PHE	E	130	-33.763	-23.294	-31.389	1.00	39.75	E	C
ATOM	15169	CD2	PHE	E	130	-33.328	-21.989	-31.373	1.00	41.27	E	C
ATOM	15171	C	PHE	E	130	-33.757	-17.355	-30.011	1.00	44.94	E	C
ATOM	15172	O	PHE	E	130	-33.666	-16.805	-31.105	1.00	45.85	E	O
ATOM	15174	N	PRO	E	131	-33.425	-16.752	-28.858	1.00	46.44	E	N
ATOM	15175	CA	PRO	E	131	-32.928	-15.392	-28.922	1.00	45.89	E	C
ATOM	15177	CB	PRO	E	131	-32.941	-14.944	-27.462	1.00	46.30	E	C
ATOM	15180	CG	PRO	E	131	-32.762	-16.187	-26.697	1.00	45.97	E	C
ATOM	15183	CD	PRO	E	131	-33.497	-17.241	-27.469	1.00	47.14	E	C
ATOM	15186	C	PRO	E	131	-31.524	-15.309	-29.468	1.00	45.70	E	C
ATOM	15187	O	PRO	E	131	-30.707	-16.190	-29.213	1.00	50.59	E	O
ATOM	15188	N	LEU	E	132	-31.266	-14.251	-30.223	1.00	42.84	E	N
ATOM	15189	CA	LEU	E	132	-29.920	-13.833	-30.540	1.00	42.31	E	C
ATOM	15191	CB	LEU	E	132	-29.808	-13.438	-32.015	1.00	40.68	E	C
ATOM	15194	CG	LEU	E	132	-29.990	-14.520	-33.073	1.00	37.84	E	C
ATOM	15196	CD1	LEU	E	132	-30.056	-13.861	-34.416	1.00	37.81	E	C
ATOM	15200	CD2	LEU	E	132	-28.858	-15.538	-33.022	1.00	39.85	E	C
ATOM	15204	C	LEU	E	132	-29.647	-12.636	-29.647	1.00	42.83	E	C
ATOM	15205	O	LEU	E	132	-29.867	-11.507	-30.050	1.00	44.11	E	O
ATOM	15207	N	ALA	E	133	-29.172	-12.889	-28.425	1.00	48.49	E	N
ATOM	15208	CA	ALA	E	133	-29.076	-11.830	-27.396	1.00	48.74	E	C
ATOM	15210	CB	ALA	E	133	-28.726	-12.416	-26.042	1.00	49.33	E	C
ATOM	15214	C	ALA	E	133	-28.070	-10.771	-27.797	1.00	47.53	E	C
ATOM	15215	O	ALA	E	133	-27.074	-11.080	-28.430	1.00	49.29	E	O
ATOM	15217	N	PRO	E	134	-28.343	-9.509	-27.458	1.00	50.85	E	N
ATOM	15218	CA	PRO	E	134	-27.299	-8.491	-27.644	1.00	56.04	E	C
ATOM	15220	CB	PRO	E	134	-28.057	-7.172	-27.473	1.00	50.36	E	C
ATOM	15223	CG	PRO	E	134	-29.269	-7.525	-26.655	1.00	49.31	E	C
ATOM	15226	CD	PRO	E	134	-29.601	-8.952	-26.922	1.00	46.01	E	C
ATOM	15229	C	PRO	E	134	-26.146	-8.653	-26.630	1.00	60.89	E	C
ATOM	15230	O	PRO	E	134	-26.395	-8.896	-25.449	1.00	64.77	E	O
ATOM	15231	N	SER	E	135	-24.905	-8.562	-27.104	1.00	65.06	E	N
ATOM	15232	CA	SER	E	135	-23.722	-8.676	-26.245	1.00	69.53	E	C
ATOM	15234	CB	SER	E	135	-23.103	-10.084	-26.356	1.00	72.75	E	C
ATOM	15237	OG	SER	E	135	-22.746	-10.426	-27.694	1.00	71.54	E	O
ATOM	15239	C	SER	E	135	-22.706	-7.608	-26.625	1.00	73.24	E	C
ATOM	15240	O	SER	E	135	-22.943	-6.810	-27.538	1.00	72.72	E	O
ATOM	15242	N	SER	E	136	-21.581	-7.585	-25.915	1.00	78.71	E	N
ATOM	15243	CA	SER	E	136	-20.420	-6.791	-26.322	1.00	78.29	E	C
ATOM	15245	CB	SER	E	136	-19.301	-6.917	-25.282	1.00	74.84	E	C
ATOM	15248	OG	SER	E	136	-18.845	-8.252	-25.153	1.00	65.34	E	O
ATOM	15250	C	SER	E	136	-19.914	-7.237	-27.695	1.00	81.40	E	C
ATOM	15251	O	SER	E	136	-19.412	-6.428	-28.472	1.00	83.26	E	O

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ATOM	15253	N	LYS	E	137	-20.056	-8.529	-27.986	1.00	81.50	E	N
ATOM	15254	CA	LYS	E	137	-19.713	-9.075	-29.306	1.00	79.99	E	C
ATOM	15256	CB	LYS	E	137	-19.438	-10.587	-29.231	1.00	77.51	E	C
ATOM	15259	CG	LYS	E	137	-18.103	-10.967	-28.583	1.00	75.44	E	C
ATOM	15262	CD	LYS	E	137	-16.902	-10.609	-29.459	1.00	76.29	E	C
ATOM	15265	CE	LYS	E	137	-15.562	-10.983	-28.784	1.00	77.03	E	C
ATOM	15268	NZ	LYS	E	137	-15.238	-10.202	-27.549	1.00	80.28	E	N
ATOM	15272	C	LYS	E	137	-20.792	-8.768	-30.362	1.00	77.56	E	C
ATOM	15273	O	LYS	E	137	-20.709	-9.251	-31.484	1.00	70.92	E	O
ATOM	15275	N	SER	E	138	-21.798	-7.970	-29.995	1.00	78.95	E	N
ATOM	15276	CA	SER	E	138	-22.789	-7.457	-30.957	1.00	79.48	E	C
ATOM	15278	CB	SER	E	138	-24.072	-8.307	-30.937	1.00	75.67	E	C
ATOM	15281	OG	SER	E	138	-25.002	-7.849	-29.969	1.00	73.04	E	O
ATOM	15283	C	SER	E	138	-23.117	-5.956	-30.777	1.00	79.89	E	C
ATOM	15284	O	SER	E	138	-24.074	-5.462	-31.361	1.00	77.34	E	O
ATOM	15286	N	THR	E	139	-22.322	-5.239	-29.982	1.00	81.72	E	N
ATOM	15287	CA	THR	E	139	-22.452	-3.789	-29.861	1.00	82.85	E	C
ATOM	15289	CB	THR	E	139	-22.123	-3.308	-28.432	1.00	81.69	E	C
ATOM	15291	OG1	THR	E	139	-23.089	-3.857	-27.527	1.00	77.64	E	O
ATOM	15293	CG2	THR	E	139	-22.154	-1.773	-28.328	1.00	80.18	E	C
ATOM	15297	C	THR	E	139	-21.544	-3.132	-30.902	1.00	83.85	E	C
ATOM	15298	O	THR	E	139	-20.576	-3.737	-31.352	1.00	83.96	E	O
ATOM	15300	N	SER	E	140	-21.885	-1.913	-31.309	1.00	83.58	E	N
ATOM	15301	CA	SER	E	140	-21.084	-1.160	-32.284	1.00	83.87	E	C
ATOM	15303	CB	SER	E	140	-21.441	-1.521	-33.717	1.00	85.00	E	C
ATOM	15306	OG	SER	E	140	-20.587	-0.840	-34.617	1.00	84.84	E	O
ATOM	15308	C	SER	E	140	-21.238	0.342	-32.070	1.00	83.43	E	C
ATOM	15309	O	SER	E	140	-22.184	0.965	-32.556	1.00	81.43	E	O
ATOM	15311	N	GLY	E	141	-20.284	0.913	-31.341	1.00	84.21	E	N
ATOM	15312	CA	GLY	E	141	-20.394	2.280	-30.862	1.00	82.92	E	C
ATOM	15315	C	GLY	E	141	-21.543	2.348	-29.872	1.00	84.25	E	C
ATOM	15316	O	GLY	E	141	-21.506	1.701	-28.812	1.00	87.79	E	O
ATOM	15318	N	GLY	E	142	-22.569	3.116	-30.236	1.00	79.54	E	N
ATOM	15319	CA	GLY	E	142	-23.799	3.216	-29.456	1.00	76.02	E	C
ATOM	15322	C	GLY	E	142	-24.920	2.316	-29.962	1.00	73.04	E	C
ATOM	15323	O	GLY	E	142	-26.035	2.383	-29.451	1.00	72.54	E	O
ATOM	15325	N	THR	E	143	-24.616	1.456	-30.940	1.00	70.21	E	N
ATOM	15326	CA	THR	E	143	-25.605	0.558	-31.575	1.00	67.06	E	C
ATOM	15328	CB	THR	E	143	-25.472	0.577	-33.126	1.00	68.59	E	C
ATOM	15330	OG1	THR	E	143	-25.777	1.880	-33.639	1.00	69.29	E	O
ATOM	15332	CG2	THR	E	143	-26.396	-0.439	-33.760	1.00	69.57	E	C
ATOM	15336	C	THR	E	143	-25.426	-0.907	-31.179	1.00	64.60	E	C
ATOM	15337	O	THR	E	143	-24.351	-1.461	-31.371	1.00	65.39	E	O
ATOM	15339	N	ALA	E	144	-26.476	-1.538	-30.655	1.00	61.00	E	N
ATOM	15340	CA	ALA	E	144	-26.475	-2.985	-30.397	1.00	56.86	E	C
ATOM	15342	CB	ALA	E	144	-27.022	-3.269	-29.009	1.00	53.02	E	C
ATOM	15346	C	ALA	E	144	-27.306	-3.747	-31.446	1.00	54.46	E	C
ATOM	15347	O	ALA	E	144	-28.407	-3.326	-31.800	1.00	55.06	E	O
ATOM	15349	N	ALA	E	145	-26.791	-4.877	-31.929	1.00	50.81	E	N
ATOM	15350	CA	ALA	E	145	-27.599	-5.789	-32.745	1.00	47.46	E	C
ATOM	15352	CB	ALA	E	145	-26.782	-6.382	-33.889	1.00	43.01	E	C
ATOM	15356	C	ALA	E	145	-28.187	-6.903	-31.879	1.00	48.05	E	C
ATOM	15357	O	ALA	E	145	-27.512	-7.424	-30.992	1.00	49.14	E	O
ATOM	15359	N	LEU	E	146	-29.444	-7.267	-32.144	1.00	45.85	E	N
ATOM	15360	CA	LEU	E	146	-30.081	-8.423	-31.503	1.00	45.13	E	C
ATOM	15362	CB	LEU	E	146	-30.861	-7.989	-30.253	1.00	44.95	E	C
ATOM	15365	CG	LEU	E	146	-31.945	-6.916	-30.478	1.00	46.29	E	C
ATOM	15367	CD1	LEU	E	146	-33.361	-7.538	-30.463	1.00	45.25	E	C
ATOM	15371	CD2	LEU	E	146	-31.844	-5.784	-29.464	1.00	47.71	E	C
ATOM	15375	C	LEU	E	146	-31.028	-9.073	-32.504	1.00	43.61	E	C
ATOM	15376	O	LEU	E	146	-31.269	-8.522	-33.567	1.00	43.98	E	O
ATOM	15378	N	GLY	E	147	-31.572	-10.240	-32.170	1.00	44.19	E	N
ATOM	15379	CA	GLY	E	147	-32.478	-10.909	-33.084	1.00	42.51	E	C
ATOM	15382	C	GLY	E	147	-33.207	-12.113	-32.536	1.00	41.50	E	C
ATOM	15383	O	GLY	E	147	-33.342	-12.260	-31.333	1.00	37.47	E	O
ATOM	15385	N	CYS	E	148	-33.690	-12.957	-33.453	1.00	44.40	E	N
ATOM	15386	CA	CYS	E	148	-34.356	-14.235	-33.147	1.00	42.56	E	C
ATOM	15388	CB	CYS	E	148	-35.874	-14.038	-33.051	1.00	50.28	E	C

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ATOM	15391	SG	CYS	E	148	-36.481	-13.383	-31.472	1.00	55.64	E	S
ATOM	15393	C	CYS	E	148	-34.056	-15.262	-34.255	1.00	39.89	E	C
ATOM	15394	O	CYS	E	148	-34.200	-14.954	-35.436	1.00	39.62	E	O
ATOM	15396	N	LEU	E	149	-33.610	-16.453	-33.868	1.00	36.49	E	N
ATOM	15397	CA	LEU	E	149	-33.436	-17.541	-34.784	1.00	36.54	E	C
ATOM	15399	CB	LEU	E	149	-32.252	-18.410	-34.334	1.00	39.13	E	C
ATOM	15402	CG	LEU	E	149	-31.945	-19.675	-35.139	1.00	37.71	E	C
ATOM	15404	CD1	LEU	E	149	-31.556	-19.344	-36.572	1.00	34.43	E	C
ATOM	15408	CD2	LEU	E	149	-30.851	-20.497	-34.450	1.00	39.33	E	C
ATOM	15412	C	LEU	E	149	-34.745	-18.344	-34.796	1.00	40.43	E	C
ATOM	15413	O	LEU	E	149	-35.142	-18.935	-33.763	1.00	37.84	E	O
ATOM	15415	N	VAL	E	150	-35.404	-18.368	-35.962	1.00	39.08	E	N
ATOM	15416	CA	VAL	E	150	-36.653	-19.125	-36.167	1.00	36.48	E	C
ATOM	15418	CB	VAL	E	150	-37.765	-18.335	-36.953	1.00	35.71	E	C
ATOM	15420	CG1	VAL	E	150	-39.095	-19.108	-36.914	1.00	27.11	E	C
ATOM	15424	CG2	VAL	E	150	-37.945	-16.898	-36.411	1.00	23.78	E	C
ATOM	15428	C	VAL	E	150	-36.274	-20.360	-36.940	1.00	37.23	E	C
ATOM	15429	O	VAL	E	150	-35.995	-20.304	-38.130	1.00	38.84	E	O
ATOM	15431	N	LYS	E	151	-36.226	-21.472	-36.230	1.00	39.70	E	N
ATOM	15432	CA	LYS	E	151	-35.446	-22.622	-36.629	1.00	40.10	E	C
ATOM	15434	CB	LYS	E	151	-34.339	-22.752	-35.565	1.00	41.90	E	C
ATOM	15437	CG	LYS	E	151	-33.622	-24.064	-35.399	1.00	41.48	E	C
ATOM	15440	CD	LYS	E	151	-32.480	-24.211	-36.315	1.00	41.11	E	C
ATOM	15443	CE	LYS	E	151	-31.499	-25.198	-35.756	1.00	40.01	E	C
ATOM	15446	NZ	LYS	E	151	-30.737	-25.814	-36.841	1.00	40.23	E	N
ATOM	15450	C	LYS	E	151	-36.345	-23.867	-36.783	1.00	42.38	E	C
ATOM	15451	O	LYS	E	151	-37.292	-24.077	-36.023	1.00	42.48	E	O
ATOM	15453	N	ASP	E	152	-36.068	-24.645	-37.830	1.00	42.90	E	N
ATOM	15454	CA	ASP	E	152	-36.657	-25.963	-38.027	1.00	42.45	E	C
ATOM	15456	CB	ASP	E	152	-36.269	-26.876	-36.865	1.00	46.08	E	C
ATOM	15459	CG	ASP	E	152	-34.838	-27.268	-36.915	1.00	44.31	E	C
ATOM	15460	OD1	ASP	E	152	-34.277	-27.234	-38.032	1.00	44.66	E	O
ATOM	15461	OD2	ASP	E	152	-34.292	-27.628	-35.849	1.00	48.26	E	O
ATOM	15462	C	ASP	E	152	-38.156	-25.990	-38.211	1.00	41.34	E	C
ATOM	15463	O	ASP	E	152	-38.855	-26.656	-37.463	1.00	45.48	E	O
ATOM	15465	N	TYR	E	153	-38.639	-25.291	-39.231	1.00	42.31	E	N
ATOM	15466	CA	TYR	E	153	-40.063	-25.291	-39.561	1.00	42.33	E	C
ATOM	15468	CB	TYR	E	153	-40.697	-23.916	-39.333	1.00	35.78	E	C
ATOM	15471	CG	TYR	E	153	-40.133	-22.805	-40.204	1.00	36.28	E	C
ATOM	15472	CD1	TYR	E	153	-40.695	-22.510	-41.442	1.00	35.52	E	C
ATOM	15474	CE1	TYR	E	153	-40.193	-21.495	-42.224	1.00	35.55	E	C
ATOM	15476	CZ	TYR	E	153	-39.108	-20.740	-41.773	1.00	35.22	E	C
ATOM	15477	OH	TYR	E	153	-38.593	-19.716	-42.549	1.00	34.94	E	O
ATOM	15479	CE2	TYR	E	153	-38.546	-21.004	-40.552	1.00	32.65	E	C
ATOM	15481	CD2	TYR	E	153	-39.053	-22.033	-39.774	1.00	36.08	E	C
ATOM	15483	C	TYR	E	153	-40.308	-25.728	-40.997	1.00	44.98	E	C
ATOM	15484	O	TYR	E	153	-39.433	-25.614	-41.862	1.00	42.97	E	O
ATOM	15486	N	PHE	E	154	-41.516	-26.227	-41.234	1.00	46.39	E	N
ATOM	15487	CA	PHE	E	154	-41.933	-26.599	-42.565	1.00	44.10	E	C
ATOM	15489	CB	PHE	E	154	-41.472	-28.027	-42.878	1.00	44.72	E	C
ATOM	15492	CG	PHE	E	154	-41.554	-28.374	-44.334	1.00	45.45	E	C
ATOM	15493	CD1	PHE	E	154	-40.665	-27.813	-45.242	1.00	44.39	E	C
ATOM	15495	CE1	PHE	E	154	-40.749	-28.109	-46.588	1.00	45.60	E	C
ATOM	15497	CZ	PHE	E	154	-41.731	-28.974	-47.052	1.00	43.70	E	C
ATOM	15499	CE2	PHE	E	154	-42.619	-29.537	-46.165	1.00	45.70	E	C
ATOM	15501	CD2	PHE	E	154	-42.533	-29.231	-44.806	1.00	45.80	E	C
ATOM	15503	C	PHE	E	154	-43.434	-26.492	-42.632	1.00	40.75	E	C
ATOM	15504	O	PHE	E	154	-44.083	-26.826	-41.675	1.00	43.98	E	O
ATOM	15506	N	PRO	E	155	-43.994	-25.974	-43.740	1.00	40.44	E	N
ATOM	15507	CA	PRO	E	155	-43.353	-25.371	-44.906	1.00	39.76	E	C
ATOM	15509	CB	PRO	E	155	-44.367	-25.641	-46.018	1.00	35.25	E	C
ATOM	15512	CG	PRO	E	155	-45.684	-25.505	-45.323	1.00	35.78	E	C
ATOM	15515	CD	PRO	E	155	-45.464	-25.978	-43.893	1.00	41.17	E	C
ATOM	15518	C	PRO	E	155	-43.163	-23.878	-44.673	1.00	40.84	E	C
ATOM	15519	O	PRO	E	155	-43.330	-23.416	-43.558	1.00	38.73	E	O
ATOM	15520	N	GLU	E	156	-42.798	-23.133	-45.710	1.00	44.32	E	N
ATOM	15521	CA	GLU	E	156	-42.853	-21.687	-45.655	1.00	41.10	E	C
ATOM	15523	CB	GLU	E	156	-42.109	-21.096	-46.846	1.00	40.35	E	C

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ATOM	15526	CG	GLU	E	156	-40.612	-21.136	-46.753	1.00	40.17	E	C
ATOM	15529	CD	GLU	E	156	-40.029	-19.842	-46.202	1.00	45.92	E	C
ATOM	15530	OE1	GLU	E	156	-40.206	-19.548	-44.971	1.00	37.91	E	O
ATOM	15531	OE2	GLU	E	156	-39.397	-19.120	-47.020	1.00	45.84	E	O
ATOM	15532	C	GLU	E	156	-44.338	-21.308	-45.708	1.00	39.25	E	C
ATOM	15533	O	GLU	E	156	-45.146	-22.096	-46.174	1.00	40.68	E	O
ATOM	15535	N	PRO	E	157	-44.704	-20.092	-45.264	1.00	39.96	E	N
ATOM	15536	CA	PRO	E	157	-43.912	-19.039	-44.673	1.00	38.16	E	C
ATOM	15538	CB	PRO	E	157	-44.522	-17.798	-45.325	1.00	36.51	E	C
ATOM	15541	CG	PRO	E	157	-45.966	-18.131	-45.495	1.00	35.12	E	C
ATOM	15544	CD	PRO	E	157	-46.091	-19.632	-45.463	1.00	37.74	E	C
ATOM	15547	C	PRO	E	157	-44.027	-18.936	-43.149	1.00	38.17	E	C
ATOM	15548	O	PRO	E	157	-44.887	-19.598	-42.533	1.00	40.68	E	O
ATOM	15549	N	VAL	E	158	-43.136	-18.130	-42.566	1.00	38.69	E	N
ATOM	15550	CA	VAL	E	158	-43.309	-17.544	-41.231	1.00	42.27	E	C
ATOM	15552	CB	VAL	E	158	-42.185	-17.911	-40.195	1.00	38.54	E	C
ATOM	15554	CG1	VAL	E	158	-42.262	-19.359	-39.782	1.00	37.42	E	C
ATOM	15558	CG2	VAL	E	158	-40.820	-17.588	-40.734	1.00	36.49	E	C
ATOM	15562	C	VAL	E	158	-43.274	-16.038	-41.409	1.00	44.56	E	C
ATOM	15563	O	VAL	E	158	-42.601	-15.548	-42.307	1.00	46.50	E	O
ATOM	15565	N	THR	E	159	-43.988	-15.321	-40.545	1.00	46.33	E	N
ATOM	15566	CA	THR	E	159	-43.831	-13.875	-40.416	1.00	45.55	E	C
ATOM	15568	CB	THR	E	159	-45.183	-13.155	-40.477	1.00	47.59	E	C
ATOM	15570	OG1	THR	E	159	-46.057	-13.693	-39.477	1.00	50.73	E	O
ATOM	15572	CG2	THR	E	159	-45.811	-13.329	-41.845	1.00	44.74	E	C
ATOM	15576	C	THR	E	159	-43.140	-13.540	-39.096	1.00	45.28	E	C
ATOM	15577	O	THR	E	159	-43.339	-14.231	-38.098	1.00	44.13	E	O
ATOM	15579	N	VAL	E	160	-42.292	-12.511	-39.125	1.00	44.66	E	N
ATOM	15580	CA	VAL	E	160	-41.637	-12.015	-37.930	1.00	43.72	E	C
ATOM	15582	CB	VAL	E	160	-40.124	-12.213	-37.931	1.00	43.08	E	C
ATOM	15584	CG1	VAL	E	160	-39.578	-11.839	-36.547	1.00	35.94	E	C
ATOM	15588	CG2	VAL	E	160	-39.764	-13.667	-38.322	1.00	41.76	E	C
ATOM	15592	C	VAL	E	160	-41.902	-10.531	-37.812	1.00	44.86	E	C
ATOM	15593	O	VAL	E	160	-41.585	-9.768	-38.724	1.00	47.59	E	O
ATOM	15595	N	SER	E	161	-42.479	-10.116	-36.690	1.00	43.97	E	N
ATOM	15596	CA	SER	E	161	-42.518	-8.702	-36.367	1.00	45.11	E	C
ATOM	15598	CB	SER	E	161	-43.960	-8.143	-36.352	1.00	41.96	E	C
ATOM	15601	OG	SER	E	161	-44.757	-8.675	-35.311	1.00	41.78	E	O
ATOM	15603	C	SER	E	161	-41.755	-8.459	-35.067	1.00	43.65	E	C
ATOM	15604	O	SER	E	161	-41.366	-9.405	-34.373	1.00	44.94	E	O
ATOM	15606	N	TRP	E	162	-41.470	-7.189	-34.804	1.00	45.22	E	N
ATOM	15607	CA	TRP	E	162	-40.768	-6.775	-33.603	1.00	47.80	E	C
ATOM	15609	CB	TRP	E	162	-39.457	-6.118	-34.005	1.00	45.82	E	C
ATOM	15612	CG	TRP	E	162	-38.440	-7.130	-34.396	1.00	44.18	E	C
ATOM	15613	CD1	TRP	E	162	-38.133	-7.556	-35.659	1.00	44.68	E	C
ATOM	15615	NE1	TRP	E	162	-37.150	-8.517	-35.606	1.00	44.58	E	N
ATOM	15617	CE2	TRP	E	162	-36.807	-8.724	-34.295	1.00	43.42	E	C
ATOM	15618	CD2	TRP	E	162	-37.607	-7.868	-33.507	1.00	44.16	E	C
ATOM	15619	CE3	TRP	E	162	-37.458	-7.891	-32.116	1.00	43.69	E	C
ATOM	15621	CZ3	TRP	E	162	-36.541	-8.753	-31.562	1.00	45.12	E	C
ATOM	15623	CH2	TRP	E	162	-35.751	-9.589	-32.370	1.00	45.12	E	C
ATOM	15625	CZ2	TRP	E	162	-35.873	-9.589	-33.737	1.00	43.92	E	C
ATOM	15627	C	TRP	E	162	-41.660	-5.835	-32.798	1.00	49.68	E	C
ATOM	15628	O	TRP	E	162	-42.232	-4.892	-33.349	1.00	51.16	E	O
ATOM	15630	N	ASN	E	163	-41.801	-6.106	-31.500	1.00	53.01	E	N
ATOM	15631	CA	ASN	E	163	-42.675	-5.297	-30.648	1.00	53.97	E	C
ATOM	15633	CB	ASN	E	163	-42.037	-3.937	-30.313	1.00	51.87	E	C
ATOM	15636	CG	ASN	E	163	-40.787	-4.071	-29.460	1.00	49.18	E	C
ATOM	15637	OD1	ASN	E	163	-40.501	-5.142	-28.916	1.00	49.55	E	O
ATOM	15638	ND2	ASN	E	163	-40.035	-2.984	-29.338	1.00	49.41	E	N
ATOM	15641	C	ASN	E	163	-44.014	-5.087	-31.336	1.00	56.38	E	C
ATOM	15642	O	ASN	E	163	-44.478	-3.964	-31.499	1.00	58.81	E	O
ATOM	15644	N	SER	E	164	-44.600	-6.199	-31.771	1.00	60.40	E	N
ATOM	15645	CA	SER	E	164	-45.935	-6.243	-32.373	1.00	56.68	E	C
ATOM	15647	CB	SER	E	164	-46.989	-5.994	-31.290	1.00	58.39	E	C
ATOM	15650	OG	SER	E	164	-46.728	-6.806	-30.158	1.00	58.46	E	O
ATOM	15652	C	SER	E	164	-46.127	-5.266	-33.533	1.00	57.53	E	C
ATOM	15653	O	SER	E	164	-47.212	-4.734	-33.722	1.00	59.61	E	O

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ATOM	15655	N	GLY	E	165	-45.072	-5.040	-34.309	1.00	58.86	E	N
ATOM	15656	CA	GLY	E	165	-45.126	-4.115	-35.442	1.00	56.23	E	C
ATOM	15659	C	GLY	E	165	-44.628	-2.717	-35.134	1.00	54.50	E	C
ATOM	15660	O	GLY	E	165	-44.381	-1.941	-36.053	1.00	54.64	E	O
ATOM	15662	N	ALA	E	166	-44.469	-2.395	-33.850	1.00	54.00	E	N
ATOM	15663	CA	ALA	E	166	-44.033	-1.054	-33.417	1.00	55.32	E	C
ATOM	15665	CB	ALA	E	166	-44.158	-0.915	-31.905	1.00	53.26	E	C
ATOM	15669	C	ALA	E	166	-42.604	-0.720	-33.868	1.00	56.02	E	C
ATOM	15670	O	ALA	E	166	-42.345	0.385	-34.319	1.00	56.90	E	O
ATOM	15672	N	LEU	E	167	-41.693	-1.689	-33.746	1.00	56.61	E	N
ATOM	15673	CA	LEU	E	167	-40.311	-1.537	-34.176	1.00	52.46	E	C
ATOM	15675	CB	LEU	E	167	-39.376	-2.311	-33.246	1.00	52.74	E	C
ATOM	15678	CG	LEU	E	167	-37.891	-2.313	-33.620	1.00	53.74	E	C
ATOM	15680	CD1	LEU	E	167	-37.341	-0.893	-33.643	1.00	53.52	E	C
ATOM	15684	CD2	LEU	E	167	-37.094	-3.190	-32.669	1.00	51.10	E	C
ATOM	15688	C	LEU	E	167	-40.172	-2.060	-35.593	1.00	52.53	E	C
ATOM	15689	O	LEU	E	167	-40.277	-3.262	-35.826	1.00	54.01	E	O
ATOM	15691	N	THR	E	168	-39.932	-1.151	-36.533	1.00	53.19	E	N
ATOM	15692	CA	THR	E	168	-39.698	-1.514	-37.933	1.00	53.39	E	C
ATOM	15694	CB	THR	E	168	-40.872	-1.021	-38.868	1.00	52.69	E	C
ATOM	15696	OG1	THR	E	168	-41.050	0.396	-38.765	1.00	47.07	E	O
ATOM	15698	CG2	THR	E	168	-42.206	-1.726	-38.511	1.00	49.67	E	C
ATOM	15702	C	THR	E	168	-38.335	-1.028	-38.453	1.00	54.70	E	C
ATOM	15703	O	THR	E	168	-37.783	-1.609	-39.387	1.00	52.98	E	O
ATOM	15705	N	SER	E	169	-37.774	0.013	-37.833	1.00	56.76	E	N
ATOM	15706	CA	SER	E	169	-36.515	0.593	-38.299	1.00	56.00	E	C
ATOM	15708	CB	SER	E	169	-36.395	2.039	-37.839	1.00	58.97	E	C
ATOM	15711	OG	SER	E	169	-35.263	2.649	-38.431	1.00	60.57	E	O
ATOM	15713	C	SER	E	169	-35.297	-0.214	-37.833	1.00	57.29	E	C
ATOM	15714	O	SER	E	169	-35.180	-0.543	-36.650	1.00	60.54	E	O
ATOM	15716	N	GLY	E	170	-34.406	-0.534	-38.775	1.00	53.64	E	N
ATOM	15717	CA	GLY	E	170	-33.215	-1.352	-38.505	1.00	50.32	E	C
ATOM	15720	C	GLY	E	170	-33.398	-2.848	-38.708	1.00	48.46	E	C
ATOM	15721	O	GLY	E	170	-32.427	-3.590	-38.679	1.00	47.40	E	O
ATOM	15723	N	VAL	E	171	-34.636	-3.291	-38.928	1.00	49.17	E	N
ATOM	15724	CA	VAL	E	171	-34.965	-4.718	-38.990	1.00	43.48	E	C
ATOM	15726	CB	VAL	E	171	-36.486	-4.970	-38.781	1.00	41.83	E	C
ATOM	15728	CG1	VAL	E	171	-36.825	-6.445	-39.002	1.00	36.93	E	C
ATOM	15732	CG2	VAL	E	171	-36.955	-4.502	-37.395	1.00	38.07	E	C
ATOM	15736	C	VAL	E	171	-34.551	-5.353	-40.325	1.00	42.91	E	C
ATOM	15737	O	VAL	E	171	-34.893	-4.848	-41.393	1.00	41.82	E	O
ATOM	15739	N	HIS	E	172	-33.806	-6.456	-40.239	1.00	42.78	E	N
ATOM	15740	CA	HIS	E	172	-33.438	-7.271	-41.385	1.00	40.35	E	C
ATOM	15742	CB	HIS	E	172	-31.935	-7.251	-41.622	1.00	41.85	E	C
ATOM	15745	CG	HIS	E	172	-31.412	-5.939	-42.123	1.00	45.68	E	C
ATOM	15746	ND1	HIS	E	172	-31.881	-5.333	-43.272	1.00	45.82	E	N
ATOM	15748	CE1	HIS	E	172	-31.214	-4.207	-43.475	1.00	48.77	E	C
ATOM	15750	NE2	HIS	E	172	-30.332	-4.058	-42.500	1.00	44.13	E	N
ATOM	15752	CD2	HIS	E	172	-30.433	-5.131	-41.646	1.00	47.57	E	C
ATOM	15754	C	HIS	E	172	-33.892	-8.685	-41.083	1.00	39.09	E	C
ATOM	15755	O	HIS	E	172	-33.325	-9.353	-40.222	1.00	45.19	E	O
ATOM	15757	N	THR	E	173	-34.951	-9.117	-41.762	1.00	40.29	E	N
ATOM	15758	CA	THR	E	173	-35.514	-10.456	-41.619	1.00	38.82	E	C
ATOM	15760	CB	THR	E	173	-37.050	-10.404	-41.556	1.00	41.76	E	C
ATOM	15762	OG1	THR	E	173	-37.459	-9.839	-40.299	1.00	46.80	E	O
ATOM	15764	CG2	THR	E	173	-37.696	-11.803	-41.743	1.00	34.32	E	C
ATOM	15768	C	THR	E	173	-35.050	-11.200	-42.842	1.00	38.84	E	C
ATOM	15769	O	THR	E	173	-35.458	-10.862	-43.945	1.00	40.60	E	O
ATOM	15771	N	PHE	E	174	-34.168	-12.178	-42.638	1.00	39.82	E	N
ATOM	15772	CA	PHE	E	174	-33.458	-12.837	-43.722	1.00	38.87	E	C
ATOM	15774	CB	PHE	E	174	-32.173	-13.464	-43.188	1.00	38.65	E	C
ATOM	15777	CG	PHE	E	174	-31.150	-12.445	-42.842	1.00	39.32	E	C
ATOM	15778	CD1	PHE	E	174	-30.379	-11.885	-43.829	1.00	38.16	E	C
ATOM	15780	CE1	PHE	E	174	-29.469	-10.917	-43.540	1.00	38.52	E	C
ATOM	15782	CZ	PHE	E	174	-29.343	-10.456	-42.253	1.00	39.61	E	C
ATOM	15784	CE2	PHE	E	174	-30.111	-10.997	-41.248	1.00	40.02	E	C
ATOM	15786	CD2	PHE	E	174	-31.025	-11.975	-41.548	1.00	40.75	E	C
ATOM	15788	C	PHE	E	174	-34.306	-13.867	-44.422	1.00	40.16	E	C

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ATOM	15789	O	PHE	E	174	-35.165	-14.509	-43.786	1.00	43.48	E	O
ATOM	15791	N	PRO	E	175	-34.094	-14.024	-45.740	1.00	40.39	E	N
ATOM	15792	CA	PRO	E	175	-34.791	-15.104	-46.452	1.00	39.78	E	C
ATOM	15794	CB	PRO	E	175	-34.222	-15.037	-47.890	1.00	34.25	E	C
ATOM	15797	CG	PRO	E	175	-33.398	-13.791	-47.981	1.00	30.23	E	C
ATOM	15800	CD	PRO	E	175	-33.228	-13.203	-46.614	1.00	33.76	E	C
ATOM	15803	C	PRO	E	175	-34.513	-16.476	-45.824	1.00	42.09	E	C
ATOM	15804	O	PRO	E	175	-33.398	-16.735	-45.372	1.00	43.99	E	O
ATOM	15805	N	ALA	E	176	-35.532	-17.329	-45.776	1.00	41.68	E	N
ATOM	15806	CA	ALA	E	176	-35.382	-18.667	-45.247	1.00	41.93	E	C
ATOM	15808	CB	ALA	E	176	-36.738	-19.366	-45.191	1.00	44.98	E	C
ATOM	15812	C	ALA	E	176	-34.419	-19.471	-46.097	1.00	43.76	E	C
ATOM	15813	O	ALA	E	176	-34.403	-19.334	-47.333	1.00	43.53	E	O
ATOM	15815	N	VAL	E	177	-33.608	-20.304	-45.435	1.00	46.19	E	N
ATOM	15816	CA	VAL	E	177	-32.763	-21.290	-46.119	1.00	43.01	E	C
ATOM	15818	CB	VAL	E	177	-31.275	-21.215	-45.699	1.00	44.44	E	C
ATOM	15820	CG1	VAL	E	177	-30.623	-19.933	-46.169	1.00	44.14	E	C
ATOM	15824	CG2	VAL	E	177	-31.108	-21.385	-44.186	1.00	49.71	E	C
ATOM	15828	C	VAL	E	177	-33.271	-22.661	-45.770	1.00	44.43	E	C
ATOM	15829	O	VAL	E	177	-33.632	-22.915	-44.623	1.00	47.79	E	O
ATOM	15831	N	LEU	E	178	-33.295	-23.546	-46.761	1.00	47.70	E	N
ATOM	15832	CA	LEU	E	178	-33.649	-24.945	-46.552	1.00	46.87	E	C
ATOM	15834	CB	LEU	E	178	-34.227	-25.525	-47.838	1.00	45.36	E	C
ATOM	15837	CG	LEU	E	178	-34.770	-26.943	-47.750	1.00	43.40	E	C
ATOM	15839	CD1	LEU	E	178	-35.871	-27.046	-46.732	1.00	40.87	E	C
ATOM	15843	CD2	LEU	E	178	-35.239	-27.326	-49.145	1.00	46.66	E	C
ATOM	15847	C	LEU	E	178	-32.421	-25.748	-46.091	1.00	49.24	E	C
ATOM	15848	O	LEU	E	178	-31.450	-25.941	-46.842	1.00	51.73	E	O
ATOM	15850	N	GLN	E	179	-32.491	-26.238	-44.854	1.00	49.44	E	N
ATOM	15851	CA	GLN	E	179	-31.408	-27.019	-44.270	1.00	47.40	E	C
ATOM	15853	CB	GLN	E	179	-31.574	-27.118	-42.751	1.00	50.25	E	C
ATOM	15856	CG	GLN	E	179	-31.584	-25.753	-42.017	1.00	52.28	E	C
ATOM	15859	CD	GLN	E	179	-32.158	-25.846	-40.598	1.00	52.34	E	C
ATOM	15860	OE1	GLN	E	179	-33.296	-26.283	-40.394	1.00	50.09	E	O
ATOM	15861	NE2	GLN	E	179	-31.369	-25.433	-39.621	1.00	54.31	E	N
ATOM	15864	C	GLN	E	179	-31.393	-28.398	-44.880	1.00	46.38	E	C
ATOM	15865	O	GLN	E	179	-32.368	-28.818	-45.500	1.00	47.93	E	O
ATOM	15867	N	SER	E	180	-30.303	-29.126	-44.668	1.00	48.62	E	N
ATOM	15868	CA	SER	E	180	-30.142	-30.469	-45.239	1.00	51.02	E	C
ATOM	15870	CB	SER	E	180	-28.714	-30.985	-45.008	1.00	52.13	E	C
ATOM	15873	OG	SER	E	180	-28.365	-30.989	-43.633	1.00	54.71	E	O
ATOM	15875	C	SER	E	180	-31.189	-31.467	-44.703	1.00	51.80	E	C
ATOM	15876	O	SER	E	180	-31.413	-32.532	-45.298	1.00	49.23	E	O
ATOM	15878	N	SER	E	181	-31.845	-31.088	-43.603	1.00	53.37	E	N
ATOM	15879	CA	SER	E	181	-32.919	-31.872	-42.997	1.00	50.93	E	C
ATOM	15881	CB	SER	E	181	-32.994	-31.555	-41.500	1.00	47.21	E	C
ATOM	15884	OG	SER	E	181	-33.195	-30.164	-41.288	1.00	44.29	E	O
ATOM	15886	C	SER	E	181	-34.285	-31.647	-43.656	1.00	52.16	E	C
ATOM	15887	O	SER	E	181	-35.248	-32.311	-43.292	1.00	51.44	E	O
ATOM	15889	N	GLY	E	182	-34.364	-30.728	-44.624	1.00	51.77	E	N
ATOM	15890	CA	GLY	E	182	-35.631	-30.409	-45.279	1.00	49.13	E	C
ATOM	15893	C	GLY	E	182	-36.536	-29.552	-44.410	1.00	47.59	E	C
ATOM	15894	O	GLY	E	182	-37.755	-29.536	-44.606	1.00	49.30	E	O
ATOM	15896	N	LEU	E	183	-35.923	-28.853	-43.449	1.00	45.18	E	N
ATOM	15897	CA	LEU	E	183	-36.621	-27.918	-42.557	1.00	46.88	E	C
ATOM	15899	CB	LEU	E	183	-36.479	-28.319	-41.089	1.00	45.17	E	C
ATOM	15902	CG	LEU	E	183	-37.085	-29.671	-40.660	1.00	43.52	E	C
ATOM	15904	CD1	LEU	E	183	-36.721	-30.030	-39.216	1.00	39.13	E	C
ATOM	15908	CD2	LEU	E	183	-38.601	-29.688	-40.867	1.00	37.65	E	C
ATOM	15912	C	LEU	E	183	-36.035	-26.543	-42.763	1.00	46.90	E	C
ATOM	15913	O	LEU	E	183	-34.821	-26.396	-42.924	1.00	45.66	E	O
ATOM	15915	N	TYR	E	184	-36.907	-25.535	-42.776	1.00	44.10	E	N
ATOM	15916	CA	TYR	E	184	-36.476	-24.155	-42.975	1.00	43.11	E	C
ATOM	15918	CB	TYR	E	184	-37.623	-23.310	-43.518	1.00	39.07	E	C
ATOM	15921	CG	TYR	E	184	-37.931	-23.663	-44.935	1.00	39.14	E	C
ATOM	15922	CD1	TYR	E	184	-37.152	-23.164	-45.970	1.00	39.59	E	C
ATOM	15924	CE1	TYR	E	184	-37.405	-23.498	-47.274	1.00	40.25	E	C
ATOM	15926	CZ	TYR	E	184	-38.451	-24.355	-47.559	1.00	42.02	E	C

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ATOM	15927	OH	TYR	E	184	-38.720	-24.689	-48.864	1.00	43.93	E	O
ATOM	15929	CE2	TYR	E	184	-39.234	-24.868	-46.550	1.00	39.10	E	C
ATOM	15931	CD2	TYR	E	184	-38.963	-24.527	-45.241	1.00	37.79	E	C
ATOM	15933	C	TYR	E	184	-35.907	-23.518	-41.718	1.00	39.68	E	C
ATOM	15934	O	TYR	E	184	-36.291	-23.841	-40.606	1.00	38.41	E	O
ATOM	15936	N	SER	E	185	-34.976	-22.598	-41.922	1.00	39.51	E	N
ATOM	15937	CA	SER	E	185	-34.478	-21.788	-40.840	1.00	42.68	E	C
ATOM	15939	CB	SER	E	185	-33.253	-22.414	-40.194	1.00	38.93	E	C
ATOM	15942	OG	SER	E	185	-32.982	-21.775	-38.967	1.00	44.46	E	O
ATOM	15944	C	SER	E	185	-34.203	-20.368	-41.304	1.00	41.56	E	C
ATOM	15945	O	SER	E	185	-33.850	-20.112	-42.457	1.00	42.36	E	O
ATOM	15947	N	LEU	E	186	-34.387	-19.442	-40.374	1.00	43.89	E	N
ATOM	15948	CA	LEU	E	186	-34.361	-18.025	-40.670	1.00	43.11	E	C
ATOM	15950	CB	LEU	E	186	-35.764	-17.637	-41.194	1.00	42.80	E	C
ATOM	15953	CG	LEU	E	186	-36.299	-16.192	-41.271	1.00	45.18	E	C
ATOM	15955	CD1	LEU	E	186	-37.274	-16.048	-42.436	1.00	46.65	E	C
ATOM	15959	CD2	LEU	E	186	-36.976	-15.717	-39.997	1.00	39.14	E	C
ATOM	15963	C	LEU	E	186	-34.024	-17.224	-39.419	1.00	44.26	E	C
ATOM	15964	O	LEU	E	186	-34.491	-17.543	-38.340	1.00	43.11	E	O
ATOM	15966	N	SER	E	187	-33.205	-16.189	-39.580	1.00	46.72	E	N
ATOM	15967	CA	SER	E	187	-32.925	-15.242	-38.518	1.00	40.15	E	C
ATOM	15969	CB	SER	E	187	-31.421	-15.137	-38.335	1.00	45.47	E	C
ATOM	15972	OG	SER	E	187	-30.939	-16.321	-37.706	1.00	49.51	E	O
ATOM	15974	C	SER	E	187	-33.539	-13.877	-38.850	1.00	38.06	E	C
ATOM	15975	O	SER	E	187	-33.574	-13.470	-40.008	1.00	36.45	E	O
ATOM	15977	N	SER	E	188	-34.081	-13.213	-37.834	1.00	40.03	E	N
ATOM	15978	CA	SER	E	188	-34.499	-11.815	-37.936	1.00	40.19	E	C
ATOM	15980	CB	SER	E	188	-35.993	-11.647	-37.621	1.00	41.28	E	C
ATOM	15983	OG	SER	E	188	-36.536	-10.428	-38.156	1.00	42.04	E	O
ATOM	15985	C	SER	E	188	-33.648	-11.004	-36.958	1.00	40.33	E	C
ATOM	15986	O	SER	E	188	-33.587	-11.335	-35.778	1.00	39.03	E	O
ATOM	15988	N	VAL	E	189	-32.964	-9.972	-37.456	1.00	42.77	E	N
ATOM	15989	CA	VAL	E	189	-32.134	-9.120	-36.604	1.00	43.52	E	C
ATOM	15991	CB	VAL	E	189	-30.670	-9.174	-36.993	1.00	40.39	E	C
ATOM	15993	CG1	VAL	E	189	-30.158	-10.626	-36.973	1.00	37.95	E	C
ATOM	15997	CG2	VAL	E	189	-30.458	-8.498	-38.349	1.00	43.37	E	C
ATOM	16001	C	VAL	E	189	-32.585	-7.661	-36.641	1.00	45.29	E	C
ATOM	16002	O	VAL	E	189	-33.235	-7.209	-37.582	1.00	46.21	E	O
ATOM	16004	N	VAL	E	190	-32.246	-6.937	-35.586	1.00	45.19	E	N
ATOM	16005	CA	VAL	E	190	-32.530	-5.508	-35.496	1.00	46.38	E	C
ATOM	16007	CB	VAL	E	190	-33.926	-5.248	-34.826	1.00	46.10	E	C
ATOM	16009	CG1	VAL	E	190	-33.939	-5.677	-33.376	1.00	39.76	E	C
ATOM	16013	CG2	VAL	E	190	-34.338	-3.789	-34.954	1.00	46.87	E	C
ATOM	16017	C	VAL	E	190	-31.373	-4.828	-34.745	1.00	48.83	E	C
ATOM	16018	O	VAL	E	190	-30.897	-5.322	-33.719	1.00	46.31	E	O
ATOM	16020	N	THR	E	191	-30.874	-3.739	-35.313	1.00	49.89	E	N
ATOM	16021	CA	THR	E	191	-29.853	-2.922	-34.679	1.00	51.57	E	C
ATOM	16023	CB	THR	E	191	-28.869	-2.396	-35.744	1.00	53.79	E	C
ATOM	16025	OG1	THR	E	191	-29.600	-1.788	-36.825	1.00	57.97	E	O
ATOM	16027	CG2	THR	E	191	-28.016	-3.546	-36.284	1.00	45.86	E	C
ATOM	16031	C	THR	E	191	-30.537	-1.774	-33.932	1.00	51.33	E	C
ATOM	16032	O	THR	E	191	-31.350	-1.072	-34.514	1.00	51.93	E	O
ATOM	16034	N	VAL	E	192	-30.230	-1.615	-32.643	1.00	54.56	E	N
ATOM	16035	CA	VAL	E	192	-30.857	-0.591	-31.775	1.00	57.53	E	C
ATOM	16037	CB	VAL	E	192	-31.825	-1.216	-30.732	1.00	53.04	E	C
ATOM	16039	CG1	VAL	E	192	-33.122	-1.700	-31.387	1.00	49.92	E	C
ATOM	16043	CG2	VAL	E	192	-31.140	-2.346	-29.983	1.00	51.65	E	C
ATOM	16047	C	VAL	E	192	-29.774	0.211	-31.029	1.00	62.01	E	C
ATOM	16048	O	VAL	E	192	-28.611	-0.184	-31.030	1.00	62.45	E	O
ATOM	16050	N	PRO	E	193	-30.143	1.352	-30.405	1.00	66.85	E	N
ATOM	16051	CA	PRO	E	193	-29.224	2.010	-29.461	1.00	65.53	E	C
ATOM	16053	CB	PRO	E	193	-30.010	3.258	-29.013	1.00	68.00	E	C
ATOM	16056	CG	PRO	E	193	-31.041	3.482	-30.076	1.00	68.49	E	C
ATOM	16059	CD	PRO	E	193	-31.406	2.107	-30.547	1.00	69.60	E	C
ATOM	16062	C	PRO	E	193	-28.879	1.121	-28.247	1.00	67.49	E	C
ATOM	16063	O	PRO	E	193	-29.729	0.358	-27.768	1.00	65.45	E	O
ATOM	16064	N	SER	E	194	-27.642	1.223	-27.760	1.00	69.91	E	N
ATOM	16065	CA	SER	E	194	-27.185	0.409	-26.628	1.00	70.98	E	C

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ATOM	16067	CB	SER	E	194	-25.655	0.480	-26.481	1.00	72.74	E	C
ATOM	16070	OG	SER	E	194	-24.975	0.064	-27.660	1.00	71.73	E	O
ATOM	16072	C	SER	E	194	-27.862	0.865	-25.328	1.00	71.93	E	C
ATOM	16073	O	SER	E	194	-28.322	0.039	-24.528	1.00	68.54	E	O
ATOM	16075	N	SER	E	195	-27.935	2.184	-25.134	1.00	74.66	E	N
ATOM	16076	CA	SER	E	195	-28.593	2.775	-23.951	1.00	76.11	E	C
ATOM	16078	CB	SER	E	195	-28.617	4.306	-24.059	1.00	76.98	E	C
ATOM	16081	OG	SER	E	195	-29.537	4.743	-25.050	1.00	75.27	E	O
ATOM	16083	C	SER	E	195	-30.026	2.257	-23.739	1.00	77.62	E	C
ATOM	16084	O	SER	E	195	-30.494	2.145	-22.598	1.00	76.58	E	O
ATOM	16086	N	SER	E	196	-30.701	1.937	-24.846	1.00	78.37	E	N
ATOM	16087	CA	SER	E	196	-32.089	1.459	-24.828	1.00	78.61	E	C
ATOM	16089	CB	SER	E	196	-32.638	1.370	-26.254	1.00	80.46	E	C
ATOM	16092	OG	SER	E	196	-32.214	0.172	-26.891	1.00	82.63	E	O
ATOM	16094	C	SER	E	196	-32.283	0.101	-24.141	1.00	78.18	E	C
ATOM	16095	O	SER	E	196	-33.376	-0.186	-23.644	1.00	77.20	E	O
ATOM	16097	N	LEU	E	197	-31.239	-0.730	-24.132	1.00	78.71	E	N
ATOM	16098	CA	LEU	E	197	-31.301	-2.048	-23.490	1.00	78.92	E	C
ATOM	16100	CB	LEU	E	197	-30.001	-2.824	-23.708	1.00	76.86	E	C
ATOM	16103	CG	LEU	E	197	-29.780	-3.441	-25.094	1.00	77.79	E	C
ATOM	16105	CD1	LEU	E	197	-29.481	-2.386	-26.139	1.00	77.33	E	C
ATOM	16109	CD2	LEU	E	197	-28.648	-4.452	-25.044	1.00	78.58	E	C
ATOM	16113	C	LEU	E	197	-31.572	-1.895	-22.000	1.00	80.77	E	C
ATOM	16114	O	LEU	E	197	-31.360	-0.817	-21.430	1.00	83.03	E	O
ATOM	16116	N	GLY	E	198	-32.061	-2.958	-21.367	1.00	81.03	E	N
ATOM	16117	CA	GLY	E	198	-32.360	-2.915	-19.931	1.00	82.88	E	C
ATOM	16120	C	GLY	E	198	-33.615	-2.131	-19.551	1.00	84.83	E	C
ATOM	16121	O	GLY	E	198	-34.313	-2.505	-18.601	1.00	84.21	E	O
ATOM	16123	N	THR	E	199	-33.888	-1.041	-20.279	1.00	84.86	E	N
ATOM	16124	CA	THR	E	199	-35.095	-0.220	-20.095	1.00	83.16	E	C
ATOM	16126	CB	THR	E	199	-34.777	1.302	-20.297	1.00	82.11	E	C
ATOM	16128	OG1	THR	E	199	-34.628	1.605	-21.694	1.00	76.53	E	O
ATOM	16130	CG2	THR	E	199	-33.497	1.698	-19.560	1.00	83.04	E	C
ATOM	16134	C	THR	E	199	-36.213	-0.634	-21.071	1.00	83.45	E	C
ATOM	16135	O	THR	E	199	-37.265	-1.130	-20.651	1.00	84.58	E	O
ATOM	16137	N	GLN	E	200	-35.965	-0.408	-22.368	1.00	80.52	E	N
ATOM	16138	CA	GLN	E	200	-36.880	-0.777	-23.460	1.00	77.13	E	C
ATOM	16140	CB	GLN	E	200	-36.551	0.058	-24.708	1.00	76.07	E	C
ATOM	16143	CG	GLN	E	200	-37.165	-0.401	-26.036	1.00	76.05	E	C
ATOM	16146	CD	GLN	E	200	-38.647	-0.089	-26.163	1.00	72.58	E	C
ATOM	16147	OE1	GLN	E	200	-39.493	-0.854	-25.702	1.00	69.01	E	O
ATOM	16148	NE2	GLN	E	200	-38.967	1.028	-26.821	1.00	69.57	E	N
ATOM	16151	C	GLN	E	200	-36.801	-2.273	-23.786	1.00	75.12	E	C
ATOM	16152	O	GLN	E	200	-35.738	-2.781	-24.131	1.00	74.83	E	O
ATOM	16154	N	THR	E	201	-37.942	-2.954	-23.690	1.00	72.40	E	N
ATOM	16155	CA	THR	E	201	-38.069	-4.391	-23.949	1.00	70.94	E	C
ATOM	16157	CB	THR	E	201	-39.354	-4.925	-23.246	1.00	71.08	E	C
ATOM	16159	OG1	THR	E	201	-39.103	-5.082	-21.842	1.00	72.73	E	O
ATOM	16161	CG2	THR	E	201	-39.829	-6.253	-23.840	1.00	70.44	E	C
ATOM	16165	C	THR	E	201	-38.169	-4.717	-25.452	1.00	69.66	E	C
ATOM	16166	O	THR	E	201	-38.828	-3.992	-26.198	1.00	68.68	E	O
ATOM	16168	N	TYR	E	202	-37.528	-5.812	-25.883	1.00	65.91	E	N
ATOM	16169	CA	TYR	E	202	-37.556	-6.234	-27.297	1.00	60.83	E	C
ATOM	16171	CB	TYR	E	202	-36.177	-6.133	-27.953	1.00	60.60	E	C
ATOM	16174	CG	TYR	E	202	-35.683	-4.707	-28.135	1.00	59.45	E	C
ATOM	16175	CD1	TYR	E	202	-36.281	-3.856	-29.058	1.00	59.31	E	C
ATOM	16177	CE1	TYR	E	202	-35.832	-2.534	-29.221	1.00	62.00	E	C
ATOM	16179	CZ	TYR	E	202	-34.770	-2.064	-28.450	1.00	61.79	E	C
ATOM	16180	OH	TYR	E	202	-34.321	-0.771	-28.607	1.00	59.24	E	O
ATOM	16182	CE2	TYR	E	202	-34.162	-2.896	-27.525	1.00	60.21	E	C
ATOM	16184	CD2	TYR	E	202	-34.618	-4.209	-27.372	1.00	61.08	E	C
ATOM	16186	C	TYR	E	202	-38.100	-7.652	-27.429	1.00	56.05	E	C
ATOM	16187	O	TYR	E	202	-37.538	-8.589	-26.869	1.00	50.90	E	O
ATOM	16189	N	ILE	E	203	-39.214	-7.781	-28.156	1.00	56.20	E	N
ATOM	16190	CA	ILE	E	203	-39.892	-9.059	-28.392	1.00	55.87	E	C
ATOM	16192	CB	ILE	E	203	-41.372	-9.064	-27.859	1.00	59.63	E	C
ATOM	16194	CG1	ILE	E	203	-41.508	-8.365	-26.500	1.00	62.86	E	C
ATOM	16197	CD1	ILE	E	203	-42.108	-6.947	-26.602	1.00	64.93	E	C

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ATOM	16201	CG2	ILE	E	203	-41.935	-10.484	-27.806	1.00	55.53	E	C
ATOM	16205	C	ILE	E	203	-39.999	-9.326	-29.900	1.00	52.16	E	C
ATOM	16206	O	ILE	E	203	-40.398	-8.435	-30.668	1.00	49.44	E	O
ATOM	16208	N	CYS	E	204	-39.673	-10.546	-30.326	1.00	50.57	E	N
ATOM	16209	CA	CYS	E	204	-39.965	-10.955	-31.701	1.00	48.79	E	C
ATOM	16211	CB	CYS	E	204	-38.837	-11.783	-32.340	1.00	49.89	E	C
ATOM	16214	SG	CYS	E	204	-38.492	-13.348	-31.588	1.00	49.68	E	S
ATOM	16216	C	CYS	E	204	-41.274	-11.716	-31.708	1.00	45.55	E	C
ATOM	16217	O	CYS	E	204	-41.485	-12.621	-30.899	1.00	41.41	E	O
ATOM	16219	N	ASN	E	205	-42.168	-11.331	-32.617	1.00	43.33	E	N
ATOM	16220	CA	ASN	E	205	-43.442	-12.024	-32.761	1.00	44.35	E	C
ATOM	16222	CB	ASN	E	205	-44.637	-11.047	-32.844	1.00	47.83	E	C
ATOM	16225	CG	ASN	E	205	-44.422	-9.783	-32.041	1.00	44.26	E	C
ATOM	16226	OD1	ASN	E	205	-44.085	-8.736	-32.593	1.00	40.27	E	O
ATOM	16227	ND2	ASN	E	205	-44.582	-9.883	-30.735	1.00	40.14	E	N
ATOM	16230	C	ASN	E	205	-43.394	-12.892	-34.014	1.00	41.52	E	C
ATOM	16231	O	ASN	E	205	-43.392	-12.391	-35.130	1.00	40.35	E	O
ATOM	16233	N	VAL	E	206	-43.331	-14.194	-33.800	1.00	39.78	E	N
ATOM	16234	CA	VAL	E	206	-43.178	-15.156	-34.862	1.00	40.15	E	C
ATOM	16236	CB	VAL	E	206	-42.091	-16.196	-34.499	1.00	38.34	E	C
ATOM	16238	CG1	VAL	E	206	-41.990	-17.283	-35.578	1.00	31.39	E	C
ATOM	16242	CG2	VAL	E	206	-40.737	-15.480	-34.241	1.00	36.57	E	C
ATOM	16246	C	VAL	E	206	-44.507	-15.852	-35.054	1.00	38.50	E	C
ATOM	16247	O	VAL	E	206	-45.077	-16.360	-34.100	1.00	37.28	E	O
ATOM	16249	N	ASN	E	207	-45.017	-15.851	-36.279	1.00	40.09	E	N
ATOM	16250	CA	ASN	E	207	-46.214	-16.636	-36.613	1.00	41.76	E	C
ATOM	16252	CB	ASN	E	207	-47.436	-15.776	-37.009	1.00	44.52	E	C
ATOM	16255	CG	ASN	E	207	-48.762	-16.591	-37.020	1.00	46.51	E	C
ATOM	16256	OD1	ASN	E	207	-48.834	-17.719	-36.515	1.00	50.24	E	O
ATOM	16257	ND2	ASN	E	207	-49.802	-16.013	-37.596	1.00	46.55	E	N
ATOM	16260	C	ASN	E	207	-45.911	-17.617	-37.729	1.00	43.47	E	C
ATOM	16261	O	ASN	E	207	-45.300	-17.273	-38.739	1.00	42.50	E	O
ATOM	16263	N	HIS	E	208	-46.349	-18.849	-37.528	1.00	43.40	E	N
ATOM	16264	CA	HIS	E	208	-46.232	-19.889	-38.536	1.00	40.37	E	C
ATOM	16266	CB	HIS	E	208	-45.188	-20.930	-38.113	1.00	39.47	E	C
ATOM	16269	CG	HIS	E	208	-45.003	-22.041	-39.098	1.00	40.52	E	C
ATOM	16270	ND1	HIS	E	208	-44.390	-21.862	-40.316	1.00	41.16	E	N
ATOM	16272	CE1	HIS	E	208	-44.367	-23.010	-40.968	1.00	36.57	E	C
ATOM	16274	NE2	HIS	E	208	-44.930	-23.931	-40.214	1.00	33.68	E	N
ATOM	16276	CD2	HIS	E	208	-45.346	-23.347	-39.044	1.00	41.03	E	C
ATOM	16278	C	HIS	E	208	-47.609	-20.515	-38.716	1.00	39.74	E	C
ATOM	16279	O	HIS	E	208	-47.991	-21.429	-37.996	1.00	42.76	E	O
ATOM	16281	N	LYS	E	209	-48.358	-20.015	-39.689	1.00	39.37	E	N
ATOM	16282	CA	LYS	E	209	-49.765	-20.406	-39.846	1.00	42.63	E	C
ATOM	16284	CB	LYS	E	209	-50.439	-19.573	-40.932	1.00	43.39	E	C
ATOM	16287	CG	LYS	E	209	-50.328	-18.071	-40.697	1.00	47.27	E	C
ATOM	16290	CD	LYS	E	209	-51.673	-17.402	-40.541	1.00	50.06	E	C
ATOM	16293	CE	LYS	E	209	-51.626	-15.965	-41.075	1.00	51.31	E	C
ATOM	16296	NZ	LYS	E	209	-51.447	-15.931	-42.558	1.00	51.12	E	N
ATOM	16300	C	LYS	E	209	-49.991	-21.878	-40.159	1.00	43.44	E	C
ATOM	16301	O	LYS	E	209	-50.961	-22.464	-39.665	1.00	44.93	E	O
ATOM	16303	N	PRO	E	210	-49.137	-22.482	-41.010	1.00	43.10	E	N
ATOM	16304	CA	PRO	E	210	-49.374	-23.891	-41.314	1.00	44.49	E	C
ATOM	16306	CB	PRO	E	210	-48.209	-24.267	-42.230	1.00	43.18	E	C
ATOM	16309	CG	PRO	E	210	-47.727	-22.996	-42.777	1.00	44.11	E	C
ATOM	16312	CD	PRO	E	210	-47.966	-21.966	-41.737	1.00	43.79	E	C
ATOM	16315	C	PRO	E	210	-49.401	-24.800	-40.078	1.00	45.33	E	C
ATOM	16316	O	PRO	E	210	-50.112	-25.792	-40.098	1.00	46.92	E	O
ATOM	16317	N	SER	E	211	-48.643	-24.473	-39.024	1.00	46.26	E	N
ATOM	16318	CA	SER	E	211	-48.668	-25.271	-37.798	1.00	45.86	E	C
ATOM	16320	CB	SER	E	211	-47.253	-25.568	-37.312	1.00	49.88	E	C
ATOM	16323	OG	SER	E	211	-46.699	-24.479	-36.585	1.00	53.17	E	O
ATOM	16325	C	SER	E	211	-49.470	-24.620	-36.672	1.00	44.90	E	C
ATOM	16326	O	SER	E	211	-49.497	-25.148	-35.557	1.00	44.62	E	O
ATOM	16328	N	ASN	E	212	-50.137	-23.503	-36.972	1.00	47.88	E	N
ATOM	16329	CA	ASN	E	212	-50.809	-22.683	-35.976	1.00	49.47	E	C
ATOM	16331	CB	ASN	E	212	-52.078	-23.389	-35.491	1.00	57.80	E	C
ATOM	16334	CG	ASN	E	212	-52.992	-23.807	-36.638	1.00	62.14	E	C

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ATOM  16335  OD1 ASN E 212     -53.684 -22.975 -37.226  1.00 64.96        E    O
ATOM  16336  ND2 ASN E 212     -52.998 -25.103 -36.958  1.00 62.35        E    N
ATOM  16339  C   ASN E 212     -49.890 -22.337 -34.797  1.00 49.53        E    C
ATOM  16340  O   ASN E 212     -50.338 -22.283 -33.649  1.00 50.43        E    O
ATOM  16342  N   THR E 213     -48.609 -22.095 -35.095  1.00 50.21        E    N
ATOM  16343  CA  THR E 213     -47.600 -21.745 -34.083  1.00 51.40        E    C
ATOM  16345  CB  THR E 213     -46.205 -22.356 -34.426  1.00 52.68        E    C
ATOM  16347  OG1 THR E 213     -46.203 -23.771 -34.195  1.00 53.98        E    O
ATOM  16349  CG2 THR E 213     -45.095 -21.711 -33.591  1.00 50.79        E    C
ATOM  16353  C   THR E 213     -47.407 -20.245 -33.990  1.00 49.98        E    C
ATOM  16354  O   THR E 213     -47.065 -19.618 -34.971  1.00 48.94        E    O
ATOM  16356  N   LYS E 214     -47.626 -19.682 -32.808  1.00 54.80        E    N
ATOM  16357  CA  LYS E 214     -47.356 -18.274 -32.532  1.00 54.83        E    C
ATOM  16359  CB  LYS E 214     -48.678 -17.561 -32.265  1.00 53.80        E    C
ATOM  16362  CG  LYS E 214     -48.602 -16.069 -32.290  1.00 58.18        E    C
ATOM  16365  CD  LYS E 214     -50.006 -15.461 -32.405  1.00 63.88        E    C
ATOM  16368  CE  LYS E 214     -50.526 -15.438 -33.849  1.00 68.16        E    C
ATOM  16371  NZ  LYS E 214     -49.784 -14.462 -34.723  1.00 71.33        E    N
ATOM  16375  C   LYS E 214     -46.436 -18.179 -31.313  1.00 55.18        E    C
ATOM  16376  O   LYS E 214     -46.785 -18.643 -30.230  1.00 56.04        E    O
ATOM  16378  N   VAL E 215     -45.251 -17.607 -31.494  1.00 54.83        E    N
ATOM  16379  CA  VAL E 215     -44.337 -17.439 -30.385  1.00 53.31        E    C
ATOM  16381  CB  VAL E 215     -43.073 -18.283 -30.563  1.00 54.42        E    C
ATOM  16383  CG1 VAL E 215     -42.072 -18.002 -29.440  1.00 55.46        E    C
ATOM  16387  CG2 VAL E 215     -43.445 -19.763 -30.591  1.00 54.22        E    C
ATOM  16391  C   VAL E 215     -44.007 -15.975 -30.249  1.00 53.37        E    C
ATOM  16392  O   VAL E 215     -43.828 -15.286 -31.257  1.00 53.02        E    O
ATOM  16394  N   ASP E 216     -43.968 -15.509 -28.997  1.00 53.54        E    N
ATOM  16395  CA  ASP E 216     -43.490 -14.169 -28.668  1.00 55.24        E    C
ATOM  16397  CB  ASP E 216     -44.598 -13.347 -27.993  1.00 58.70        E    C
ATOM  16400  CG  ASP E 216     -45.693 -12.928 -28.965  1.00 58.52        E    C
ATOM  16401  OD1 ASP E 216     -45.387 -12.168 -29.912  1.00 52.67        E    O
ATOM  16402  OD2 ASP E 216     -46.856 -13.359 -28.776  1.00 62.66        E    O
ATOM  16403  C   ASP E 216     -42.301 -14.358 -27.749  1.00 54.53        E    C
ATOM  16404  O   ASP E 216     -42.455 -14.920 -26.669  1.00 56.17        E    O
ATOM  16406  N   LYS E 217     -41.118 -13.925 -28.182  1.00 52.83        E    N
ATOM  16407  CA  LYS E 217     -39.896 -14.209 -27.446  1.00 53.38        E    C
ATOM  16409  CB  LYS E 217     -38.953 -15.050 -28.317  1.00 56.80        E    C
ATOM  16412  CG  LYS E 217     -37.964 -15.905 -27.551  1.00 59.81        E    C
ATOM  16415  CD  LYS E 217     -38.686 -16.959 -26.695  1.00 65.55        E    C
ATOM  16418  CE  LYS E 217     -37.793 -18.168 -26.439  1.00 64.97        E    C
ATOM  16421  NZ  LYS E 217     -38.280 -19.024 -25.323  1.00 65.51        E    N
ATOM  16425  C   LYS E 217     -39.232 -12.914 -27.037  1.00 51.71        E    C
ATOM  16426  O   LYS E 217     -38.926 -12.076 -27.885  1.00 48.71        E    O
ATOM  16428  N   LYS E 218     -39.021 -12.732 -25.736  1.00 56.70        E    N
ATOM  16429  CA  LYS E 218     -38.284 -11.561 -25.249  1.00 58.32        E    C
ATOM  16431  CB  LYS E 218     -38.607 -11.243 -23.785  1.00 61.97        E    C
ATOM  16434  CG  LYS E 218     -38.118  -9.846 -23.324  1.00 62.61        E    C
ATOM  16437  CD  LYS E 218     -38.562  -9.553 -21.889  1.00 63.90        E    C
ATOM  16440  CE  LYS E 218     -37.693  -8.507 -21.193  1.00 64.46        E    C
ATOM  16443  NZ  LYS E 218     -38.039  -8.363 -19.732  1.00 62.97        E    N
ATOM  16447  C   LYS E 218     -36.798 -11.812 -25.449  1.00 58.16        E    C
ATOM  16448  O   LYS E 218     -36.280 -12.867 -25.073  1.00 58.94        E    O
ATOM  16450  N   VAL E 219     -36.129 -10.851 -26.077  1.00 55.99        E    N
ATOM  16451  CA  VAL E 219     -34.708 -10.953 -26.355  1.00 56.34        E    C
ATOM  16453  CB  VAL E 219     -34.356 -10.486 -27.816  1.00 51.58        E    C
ATOM  16455  CG1 VAL E 219     -32.854 -10.553 -28.048  1.00 40.20        E    C
ATOM  16459  CG2 VAL E 219     -35.088 -11.316 -28.849  1.00 47.73        E    C
ATOM  16463  C   VAL E 219     -33.972 -10.057 -25.373  1.00 56.23        E    C
ATOM  16464  O   VAL E 219     -33.918  -8.843 -25.567  1.00 55.92        E    O
ATOM  16466  N   GLU E 220     -33.392 -10.651 -24.332  1.00 59.40        E    N
ATOM  16467  CA  GLU E 220     -32.670  -9.869 -23.330  1.00 62.60        E    C
ATOM  16469  CB  GLU E 220     -33.336  -9.938 -21.954  1.00 65.31        E    C
ATOM  16472  CG  GLU E 220     -33.886 -11.279 -21.507  1.00 65.62        E    C
ATOM  16475  CD  GLU E 220     -34.891 -11.093 -20.411  1.00 67.44        E    C
ATOM  16476  OE1 GLU E 220     -34.886  -9.998 -19.824  1.00 70.23        E    O
ATOM  16477  OE2 GLU E 220     -35.700 -12.009 -20.145  1.00 71.88        E    O
ATOM  16478  C   GLU E 220     -31.186 -10.221 -23.251  1.00 63.25        E    C
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ATOM	16479	O	GLU	E	220	-30.800	-11.372	-23.521	1.00	60.83	E	O
ATOM	16481	N	PRO	E	221	-30.351	-9.226	-22.877	1.00	63.87	E	N
ATOM	16482	CA	PRO	E	221	-28.906	-9.430	-22.677	1.00	66.31	E	C
ATOM	16484	CB	PRO	E	221	-28.395	-8.062	-22.229	1.00	64.87	E	C
ATOM	16487	CG	PRO	E	221	-29.495	-7.088	-22.497	1.00	65.30	E	C
ATOM	16490	CD	PRO	E	221	-30.775	-7.836	-22.619	1.00	62.83	E	C
ATOM	16493	C	PRO	E	221	-28.574	-10.494	-21.622	1.00	69.59	E	C
ATOM	16494	O	PRO	E	221	-29.358	-10.708	-20.688	1.00	69.89	E	O
ATOM	16495	N	LYS	E	222	-27.411	-11.139	-21.783	1.00	73.55	E	N
ATOM	16496	CA	LYS	E	222	-26.940	-12.216	-20.885	1.00	74.71	E	C
ATOM	16498	CB	LYS	E	222	-26.621	-13.494	-21.693	1.00	78.51	E	C
ATOM	16501	CG	LYS	E	222	-27.563	-13.761	-22.882	1.00	79.79	E	C
ATOM	16504	CD	LYS	E	222	-27.561	-15.240	-23.313	1.00	78.90	E	C
ATOM	16507	CE	LYS	E	222	-28.829	-15.619	-24.108	1.00	78.37	E	C
ATOM	16510	NZ	LYS	E	222	-29.402	-16.937	-23.669	1.00	75.74	E	N
ATOM	16514	C	LYS	E	222	-25.684	-11.786	-20.125	1.00	75.22	E	C
ATOM	16515	O	LYS	E	222	-24.893	-10.970	-20.624	1.00	76.21	E	O
ATOM	16518	CA	ASP	D	1	-52.112	-16.021	-76.658	1.00	45.76	D	C
ATOM	16520	CB	ASP	D	1	-51.455	-16.830	-75.535	1.00	48.98	D	C
ATOM	16523	CG	ASP	D	1	-52.464	-17.516	-74.635	1.00	52.75	D	C
ATOM	16524	OD1	ASP	D	1	-53.589	-17.792	-75.119	1.00	54.18	D	O
ATOM	16525	OD2	ASP	D	1	-52.118	-17.788	-73.452	1.00	51.71	D	O
ATOM	16526	C	ASP	D	1	-51.066	-15.048	-77.219	1.00	44.89	D	C
ATOM	16527	O	ASP	D	1	-50.159	-15.449	-77.931	1.00	49.36	D	O
ATOM	16528	N	ILE	D	2	-51.172	-13.777	-76.854	1.00	42.94	D	N
ATOM	16529	CA	ILE	D	2	-50.150	-12.776	-77.194	1.00	41.01	D	C
ATOM	16531	CB	ILE	D	2	-50.684	-11.337	-76.998	1.00	35.46	D	C
ATOM	16533	CG1	ILE	D	2	-51.889	-11.091	-77.920	1.00	35.57	D	C
ATOM	16536	CD1	ILE	D	2	-52.607	-9.743	-77.701	1.00	34.85	D	C
ATOM	16540	CG2	ILE	D	2	-49.596	-10.327	-77.255	1.00	32.35	D	C
ATOM	16544	C	ILE	D	2	-48.857	-12.958	-76.377	1.00	43.16	D	C
ATOM	16545	O	ILE	D	2	-48.893	-13.222	-75.170	1.00	46.09	D	O
ATOM	16547	N	GLN	D	3	-47.718	-12.824	-77.057	1.00	46.33	D	N
ATOM	16548	CA	GLN	D	3	-46.406	-13.005	-76.436	1.00	45.44	D	C
ATOM	16550	CB	GLN	D	3	-45.416	-13.787	-77.321	1.00	52.61	D	C
ATOM	16553	CG	GLN	D	3	-45.999	-14.633	-78.437	1.00	59.09	D	C
ATOM	16556	CD	GLN	D	3	-46.833	-15.749	-77.923	1.00	60.95	D	C
ATOM	16557	OE1	GLN	D	3	-46.544	-16.310	-76.865	1.00	63.22	D	O
ATOM	16558	NE2	GLN	D	3	-47.884	-16.091	-78.664	1.00	63.18	D	N
ATOM	16561	C	GLN	D	3	-45.802	-11.641	-76.206	1.00	41.99	D	C
ATOM	16562	O	GLN	D	3	-46.034	-10.729	-76.977	1.00	40.91	D	O
ATOM	16564	N	VAL	D	4	-45.005	-11.527	-75.153	1.00	41.30	D	N
ATOM	16565	CA	VAL	D	4	-44.338	-10.287	-74.812	1.00	41.54	D	C
ATOM	16567	CB	VAL	D	4	-44.961	-9.611	-73.560	1.00	39.07	D	C
ATOM	16569	CG1	VAL	D	4	-44.385	-8.227	-73.376	1.00	33.94	D	C
ATOM	16573	CG2	VAL	D	4	-46.482	-9.547	-73.668	1.00	42.19	D	C
ATOM	16577	C	VAL	D	4	-42.926	-10.664	-74.491	1.00	39.69	D	C
ATOM	16578	O	VAL	D	4	-42.695	-11.703	-73.888	1.00	39.55	D	O
ATOM	16580	N	THR	D	5	-41.984	-9.829	-74.915	1.00	39.77	D	N
ATOM	16581	CA	THR	D	5	-40.581	-10.070	-74.660	1.00	39.61	D	C
ATOM	16583	CB	THR	D	5	-39.833	-10.517	-75.954	1.00	40.46	D	C
ATOM	16585	OG1	THR	D	5	-38.467	-10.807	-75.637	1.00	49.32	D	O
ATOM	16587	CG2	THR	D	5	-39.895	-9.478	-77.027	1.00	41.92	D	C
ATOM	16591	C	THR	D	5	-40.013	-8.828	-73.989	1.00	34.02	D	C
ATOM	16592	O	THR	D	5	-39.915	-7.773	-74.604	1.00	28.83	D	O
ATOM	16594	N	GLN	D	6	-39.680	-8.975	-72.701	1.00	33.46	D	N
ATOM	16595	CA	GLN	D	6	-39.178	-7.876	-71.866	1.00	33.72	D	C
ATOM	16597	CB	GLN	D	6	-39.677	-7.988	-70.405	1.00	28.74	D	C
ATOM	16600	CG	GLN	D	6	-39.311	-6.776	-69.554	1.00	31.16	D	C
ATOM	16603	CD	GLN	D	6	-40.178	-6.547	-68.315	1.00	26.09	D	C
ATOM	16604	OE1	GLN	D	6	-41.232	-7.129	-68.159	1.00	23.29	D	O
ATOM	16605	NE2	GLN	D	6	-39.720	-5.671	-67.438	1.00	24.43	D	N
ATOM	16608	C	GLN	D	6	-37.660	-7.876	-71.879	1.00	34.70	D	C
ATOM	16609	O	GLN	D	6	-37.037	-8.927	-71.909	1.00	34.47	D	O
ATOM	16611	N	SER	D	7	-37.079	-6.684	-71.813	1.00	33.82	D	N
ATOM	16612	CA	SER	D	7	-35.626	-6.536	-71.804	1.00	32.43	D	C
ATOM	16614	CB	SER	D	7	-35.120	-6.593	-73.250	1.00	35.43	D	C
ATOM	16617	OG	SER	D	7	-33.718	-6.445	-73.326	1.00	40.13	D	O

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ATOM	16619	C	SER	D	7	-35.208	-5.220	-71.106	1.00	31.31	D	C
ATOM	16620	O	SER	D	7	-35.920	-4.226	-71.154	1.00	34.38	D	O
ATOM	16622	N	PRO	D	8	-34.066	-5.221	-70.415	1.00	31.16	D	N
ATOM	16623	CA	PRO	D	8	-33.188	-6.355	-70.147	1.00	33.46	D	C
ATOM	16625	CB	PRO	D	8	-31.872	-5.677	-69.740	1.00	32.48	D	C
ATOM	16628	CG	PRO	D	8	-32.309	-4.388	-69.103	1.00	23.95	D	C
ATOM	16631	CD	PRO	D	8	-33.572	-3.979	-69.792	1.00	28.00	D	C
ATOM	16634	C	PRO	D	8	-33.727	-7.227	-69.007	1.00	32.19	D	C
ATOM	16635	O	PRO	D	8	-34.779	-6.950	-68.432	1.00	36.14	D	O
ATOM	16636	N	SER	D	9	-32.991	-8.265	-68.669	1.00	35.24	D	N
ATOM	16637	CA	SER	D	9	-33.374	-9.106	-67.556	1.00	33.15	D	C
ATOM	16639	CB	SER	D	9	-32.801	-10.497	-67.747	1.00	37.14	D	C
ATOM	16642	OG	SER	D	9	-31.449	-10.492	-67.439	1.00	46.99	D	O
ATOM	16644	C	SER	D	9	-32.966	-8.503	-66.204	1.00	31.51	D	C
ATOM	16645	O	SER	D	9	-33.666	-8.678	-65.184	1.00	29.10	D	O
ATOM	16647	N	SER	D	10	-31.838	-7.790	-66.193	1.00	33.95	D	N
ATOM	16648	CA	SER	D	10	-31.394	-7.045	-65.018	1.00	30.90	D	C
ATOM	16650	CB	SER	D	10	-30.657	-7.939	-64.008	1.00	36.72	D	C
ATOM	16653	OG	SER	D	10	-29.499	-8.551	-64.560	1.00	39.79	D	O
ATOM	16655	C	SER	D	10	-30.500	-5.908	-65.444	1.00	34.81	D	C
ATOM	16656	O	SER	D	10	-29.937	-5.909	-66.546	1.00	38.94	D	O
ATOM	16658	N	LEU	D	11	-30.420	-4.911	-64.576	1.00	36.91	D	N
ATOM	16659	CA	LEU	D	11	-29.573	-3.768	-64.789	1.00	34.54	D	C
ATOM	16661	CB	LEU	D	11	-30.264	-2.719	-65.693	1.00	36.11	D	C
ATOM	16664	CG	LEU	D	11	-31.416	-1.836	-65.164	1.00	31.73	D	C
ATOM	16666	CD1	LEU	D	11	-30.954	-0.630	-64.365	1.00	26.78	D	C
ATOM	16670	CD2	LEU	D	11	-32.314	-1.361	-66.322	1.00	22.55	D	C
ATOM	16674	C	LEU	D	11	-29.209	-3.152	-63.451	1.00	33.59	D	C
ATOM	16675	O	LEU	D	11	-29.850	-3.416	-62.448	1.00	30.13	D	O
ATOM	16677	N	SER	D	12	-28.189	-2.308	-63.478	1.00	36.30	D	N
ATOM	16678	CA	SER	D	12	-27.687	-1.602	-62.313	1.00	37.59	D	C
ATOM	16680	CB	SER	D	12	-26.418	-2.289	-61.802	1.00	41.83	D	C
ATOM	16683	OG	SER	D	12	-25.822	-1.555	-60.763	1.00	48.18	D	O
ATOM	16685	C	SER	D	12	-27.386	-0.171	-62.724	1.00	36.59	D	C
ATOM	16686	O	SER	D	12	-26.781	0.067	-63.755	1.00	38.68	D	O
ATOM	16688	N	ALA	D	13	-27.831	0.784	-61.928	1.00	35.81	D	N
ATOM	16689	CA	ALA	D	13	-27.606	2.180	-62.231	1.00	35.53	D	C
ATOM	16691	CB	ALA	D	13	-28.742	2.725	-63.098	1.00	36.06	D	C
ATOM	16695	C	ALA	D	13	-27.491	2.968	-60.938	1.00	36.27	D	C
ATOM	16696	O	ALA	D	13	-27.801	2.454	-59.868	1.00	40.65	D	O
ATOM	16698	N	SER	D	14	-27.060	4.217	-61.042	1.00	37.59	D	N
ATOM	16699	CA	SER	D	14	-26.875	5.084	-59.876	1.00	38.04	D	C
ATOM	16701	CB	SER	D	14	-25.645	5.999	-60.083	1.00	42.14	D	C
ATOM	16704	OG	SER	D	14	-24.562	5.260	-60.614	1.00	47.41	D	O
ATOM	16706	C	SER	D	14	-28.083	5.971	-59.583	1.00	38.35	D	C
ATOM	16707	O	SER	D	14	-28.859	6.313	-60.474	1.00	36.85	D	O
ATOM	16709	N	VAL	D	15	-28.182	6.416	-58.340	1.00	37.69	D	N
ATOM	16710	CA	VAL	D	15	-29.196	7.398	-57.977	1.00	37.29	D	C
ATOM	16712	CB	VAL	D	15	-29.042	7.888	-56.535	1.00	32.29	D	C
ATOM	16714	CG1	VAL	D	15	-30.064	8.977	-56.225	1.00	26.98	D	C
ATOM	16718	CG2	VAL	D	15	-29.190	6.719	-55.579	1.00	35.14	D	C
ATOM	16722	C	VAL	D	15	-29.094	8.575	-58.907	1.00	38.60	D	C
ATOM	16723	O	VAL	D	15	-28.002	9.118	-59.116	1.00	42.18	D	O
ATOM	16725	N	GLY	D	16	-30.223	8.951	-59.494	1.00	40.11	D	N
ATOM	16726	CA	GLY	D	16	-30.285	10.090	-60.411	1.00	38.90	D	C
ATOM	16729	C	GLY	D	16	-30.241	9.690	-61.866	1.00	37.21	D	C
ATOM	16730	O	GLY	D	16	-30.608	10.474	-62.719	1.00	40.27	D	O
ATOM	16732	N	ASP	D	17	-29.784	8.479	-62.159	1.00	39.98	D	N
ATOM	16733	CA	ASP	D	17	-29.714	7.990	-63.537	1.00	40.64	D	C
ATOM	16735	CB	ASP	D	17	-28.886	6.710	-63.615	1.00	46.54	D	C
ATOM	16738	CG	ASP	D	17	-27.397	6.948	-63.409	1.00	50.99	D	C
ATOM	16739	OD1	ASP	D	17	-26.895	8.050	-63.747	1.00	55.50	D	O
ATOM	16740	OD2	ASP	D	17	-26.724	6.002	-62.937	1.00	46.59	D	O
ATOM	16741	C	ASP	D	17	-31.090	7.698	-64.146	1.00	44.06	D	C
ATOM	16742	O	ASP	D	17	-32.088	7.510	-63.428	1.00	43.56	D	O
ATOM	16744	N	ARG	D	18	-31.117	7.635	-65.475	1.00	40.59	D	N
ATOM	16745	CA	ARG	D	18	-32.311	7.277	-66.202	1.00	39.07	D	C
ATOM	16747	CB	ARG	D	18	-32.433	8.071	-67.480	1.00	40.84	D	C

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ATOM	16750	CG	ARG	D	18	-33.500	7.518	-68.398	1.00	41.87	D	C
ATOM	16753	CD	ARG	D	18	-33.730	8.409	-69.541	1.00	42.69	D	C
ATOM	16756	NE	ARG	D	18	-34.020	9.763	-69.115	1.00	41.66	D	N
ATOM	16758	CZ	ARG	D	18	-34.224	10.759	-69.960	1.00	42.99	D	C
ATOM	16759	NH1	ARG	D	18	-34.174	10.539	-71.266	1.00	44.44	D	N
ATOM	16762	NH2	ARG	D	18	-34.484	11.968	-69.494	1.00	43.84	D	N
ATOM	16765	C	ARG	D	18	-32.284	5.808	-66.554	1.00	41.80	D	C
ATOM	16766	O	ARG	D	18	-31.356	5.351	-67.222	1.00	43.13	D	O
ATOM	16768	N	VAL	D	19	-33.339	5.096	-66.148	1.00	41.89	D	N
ATOM	16769	CA	VAL	D	19	-33.504	3.671	-66.420	1.00	37.52	D	C
ATOM	16771	CB	VAL	D	19	-33.984	2.960	-65.168	1.00	32.80	D	C
ATOM	16773	CG1	VAL	D	19	-34.429	1.534	-65.461	1.00	26.89	D	C
ATOM	16777	CG2	VAL	D	19	-32.882	3.007	-64.106	1.00	28.37	D	C
ATOM	16781	C	VAL	D	19	-34.505	3.486	-67.541	1.00	37.40	D	C
ATOM	16782	O	VAL	D	19	-35.558	4.120	-67.542	1.00	43.15	D	O
ATOM	16784	N	THR	D	20	-34.164	2.625	-68.496	1.00	37.47	D	N
ATOM	16785	CA	THR	D	20	-34.985	2.385	-69.665	1.00	36.22	D	C
ATOM	16787	CB	THR	D	20	-34.352	3.032	-70.925	1.00	39.26	D	C
ATOM	16789	OG1	THR	D	20	-34.152	4.432	-70.705	1.00	36.42	D	O
ATOM	16791	CG2	THR	D	20	-35.257	2.844	-72.170	1.00	39.50	D	C
ATOM	16795	C	THR	D	20	-35.184	0.879	-69.875	1.00	37.81	D	C
ATOM	16796	O	THR	D	20	-34.229	0.142	-70.084	1.00	38.10	D	O
ATOM	16798	N	ILE	D	21	-36.447	0.457	-69.839	1.00	36.44	D	N
ATOM	16799	CA	ILE	D	21	-36.858	-0.935	-69.951	1.00	35.58	D	C
ATOM	16801	CB	ILE	D	21	-37.529	-1.380	-68.636	1.00	35.26	D	C
ATOM	16803	CG1	ILE	D	21	-36.546	-1.265	-67.473	1.00	32.63	D	C
ATOM	16806	CD1	ILE	D	21	-37.226	-1.263	-66.124	1.00	35.70	D	C
ATOM	16810	CG2	ILE	D	21	-38.091	-2.800	-68.743	1.00	36.28	D	C
ATOM	16814	C	ILE	D	21	-37.861	-1.049	-71.105	1.00	32.56	D	C
ATOM	16815	O	ILE	D	21	-38.755	-0.221	-71.236	1.00	31.36	D	O
ATOM	16817	N	THR	D	22	-37.726	-2.078	-71.928	1.00	32.64	D	N
ATOM	16818	CA	THR	D	22	-38.580	-2.222	-73.103	1.00	39.99	D	C
ATOM	16820	CB	THR	D	22	-37.784	-2.031	-74.465	1.00	40.12	D	C
ATOM	16822	OG1	THR	D	22	-36.723	-2.981	-74.568	1.00	41.12	D	O
ATOM	16824	CG2	THR	D	22	-37.208	-0.639	-74.578	1.00	40.07	D	C
ATOM	16828	C	THR	D	22	-39.345	-3.543	-73.124	1.00	40.51	D	C
ATOM	16829	O	THR	D	22	-38.843	-4.554	-72.638	1.00	41.06	D	O
ATOM	16831	N	CYS	D	23	-40.560	-3.499	-73.687	1.00	43.14	D	N
ATOM	16832	CA	CYS	D	23	-41.371	-4.694	-73.996	1.00	42.54	D	C
ATOM	16834	CB	CYS	D	23	-42.593	-4.811	-73.079	1.00	41.73	D	C
ATOM	16837	SG	CYS	D	23	-42.105	-5.668	-71.602	1.00	49.84	D	S
ATOM	16839	C	CYS	D	23	-41.822	-4.668	-75.433	1.00	39.03	D	C
ATOM	16840	O	CYS	D	23	-42.260	-3.645	-75.921	1.00	38.84	D	O
ATOM	16842	N	ILE	D	24	-41.702	-5.804	-76.106	1.00	39.91	D	N
ATOM	16843	CA	ILE	D	24	-42.093	-5.919	-77.500	1.00	42.16	D	C
ATOM	16845	CB	ILE	D	24	-40.862	-6.119	-78.414	1.00	41.46	D	C
ATOM	16847	CG1	ILE	D	24	-39.856	-4.983	-78.192	1.00	41.31	D	C
ATOM	16850	CD1	ILE	D	24	-38.471	-5.304	-78.647	1.00	43.89	D	C
ATOM	16854	CG2	ILE	D	24	-41.293	-6.145	-79.873	1.00	41.33	D	C
ATOM	16858	C	ILE	D	24	-43.104	-7.063	-77.622	1.00	43.17	D	C
ATOM	16859	O	ILE	D	24	-42.843	-8.178	-77.187	1.00	41.39	D	O
ATOM	16861	N	THR	D	25	-44.269	-6.755	-78.187	1.00	44.58	D	N
ATOM	16862	CA	THR	D	25	-45.370	-7.716	-78.297	1.00	40.51	D	C
ATOM	16864	CB	THR	D	25	-46.763	-7.039	-78.017	1.00	39.20	D	C
ATOM	16866	OG1	THR	D	25	-46.990	-5.950	-78.928	1.00	35.42	D	O
ATOM	16868	CG2	THR	D	25	-46.837	-6.510	-76.579	1.00	34.65	D	C
ATOM	16872	C	THR	D	25	-45.353	-8.405	-79.663	1.00	37.04	D	C
ATOM	16873	O	THR	D	25	-44.762	-7.903	-80.616	1.00	35.11	D	O
ATOM	16875	N	SER	D	26	-45.994	-9.567	-79.734	1.00	41.69	D	N
ATOM	16876	CA	SER	D	26	-46.031	-10.392	-80.950	1.00	43.80	D	C
ATOM	16878	CB	SER	D	26	-46.441	-11.809	-80.579	1.00	39.47	D	C
ATOM	16881	OG	SER	D	26	-47.677	-11.771	-79.890	1.00	37.43	D	O
ATOM	16883	C	SER	D	26	-47.018	-9.884	-81.987	1.00	46.46	D	C
ATOM	16884	O	SER	D	26	-47.036	-10.345	-83.120	1.00	48.60	D	O
ATOM	16886	N	THR	D	27	-47.868	-8.960	-81.576	1.00	47.41	D	N
ATOM	16887	CA	THR	D	27	-48.888	-8.409	-82.441	1.00	45.05	D	C
ATOM	16889	CB	THR	D	27	-50.197	-9.187	-82.336	1.00	44.82	D	C
ATOM	16891	OG1	THR	D	27	-51.134	-8.662	-83.285	1.00	44.14	D	O

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ATOM	16893	CG2	THR	D	27	-50.786	-9.102	-80.907	1.00	42.26	D	C
ATOM	16897	C	THR	D	27	-49.150	-6.981	-82.049	1.00	44.63	D	C
ATOM	16898	O	THR	D	27	-48.829	-6.568	-80.953	1.00	47.84	D	O
ATOM	16900	N	ASP	D	28	-49.716	-6.219	-82.969	1.00	47.67	D	N
ATOM	16901	CA	ASP	D	28	-50.107	-4.848	-82.692	1.00	47.49	D	C
ATOM	16903	CB	ASP	D	28	-50.684	-4.200	-83.952	1.00	44.80	D	C
ATOM	16906	CG	ASP	D	28	-51.179	-2.801	-83.711	1.00	46.92	D	C
ATOM	16907	OD1	ASP	D	28	-50.358	-1.873	-83.696	1.00	49.51	D	O
ATOM	16908	OD2	ASP	D	28	-52.401	-2.618	-83.544	1.00	54.29	D	O
ATOM	16909	C	ASP	D	28	-51.152	-4.863	-81.570	1.00	46.18	D	C
ATOM	16910	O	ASP	D	28	-52.211	-5.494	-81.722	1.00	47.34	D	O
ATOM	16912	N	ILE	D	29	-50.851	-4.193	-80.454	1.00	41.93	D	N
ATOM	16913	CA	ILE	D	29	-51.779	-4.145	-79.304	1.00	41.67	D	C
ATOM	16915	CB	ILE	D	29	-51.200	-4.702	-77.969	1.00	34.63	D	C
ATOM	16917	CG1	ILE	D	29	-49.934	-3.955	-77.543	1.00	38.01	D	C
ATOM	16920	CD1	ILE	D	29	-49.771	-3.861	-76.024	1.00	37.63	D	C
ATOM	16924	CG2	ILE	D	29	-51.007	-6.186	-78.053	1.00	27.55	D	C
ATOM	16928	C	ILE	D	29	-52.296	-2.736	-79.018	1.00	39.51	D	C
ATOM	16929	O	ILE	D	29	-52.732	-2.447	-77.902	1.00	39.60	D	O
ATOM	16931	N	ASP	D	30	-52.239	-1.861	-80.014	1.00	39.32	D	N
ATOM	16932	CA	ASP	D	30	-52.558	-0.457	-79.822	1.00	41.42	D	C
ATOM	16934	CB	ASP	D	30	-54.078	-0.246	-79.588	1.00	40.38	D	C
ATOM	16937	CG	ASP	D	30	-54.934	-0.671	-80.786	1.00	42.75	D	C
ATOM	16938	OD1	ASP	D	30	-54.669	-0.174	-81.910	1.00	41.44	D	O
ATOM	16939	OD2	ASP	D	30	-55.886	-1.478	-80.594	1.00	41.57	D	O
ATOM	16940	C	ASP	D	30	-51.728	0.130	-78.675	1.00	40.15	D	C
ATOM	16941	O	ASP	D	30	-50.503	0.135	-78.728	1.00	41.22	D	O
ATOM	16943	N	ASP	D	31	-52.400	0.600	-77.634	1.00	43.42	D	N
ATOM	16944	CA	ASP	D	31	-51.728	1.279	-76.527	1.00	41.01	D	C
ATOM	16946	CB	ASP	D	31	-52.088	2.766	-76.468	1.00	45.24	D	C
ATOM	16949	CG	ASP	D	31	-53.571	3.022	-76.352	1.00	49.62	D	C
ATOM	16950	OD1	ASP	D	31	-54.375	2.061	-76.377	1.00	57.10	D	O
ATOM	16951	OD2	ASP	D	31	-53.928	4.215	-76.248	1.00	48.01	D	O
ATOM	16952	C	ASP	D	31	-51.988	0.558	-75.207	1.00	36.28	D	C
ATOM	16953	O	ASP	D	31	-51.739	1.101	-74.154	1.00	32.60	D	O
ATOM	16955	N	ASP	D	32	-52.415	-0.703	-75.283	1.00	34.95	D	N
ATOM	16956	CA	ASP	D	32	-52.873	-1.451	-74.103	1.00	38.03	D	C
ATOM	16958	CB	ASP	D	32	-53.997	-2.410	-74.493	1.00	38.41	D	C
ATOM	16961	CG	ASP	D	32	-55.248	-1.675	-74.976	1.00	38.53	D	C
ATOM	16962	OD1	ASP	D	32	-55.770	-0.830	-74.225	1.00	37.63	D	O
ATOM	16963	OD2	ASP	D	32	-55.703	-1.932	-76.110	1.00	42.67	D	O
ATOM	16964	C	ASP	D	32	-51.733	-2.183	-73.408	1.00	36.60	D	C
ATOM	16965	O	ASP	D	32	-51.759	-3.394	-73.234	1.00	34.38	D	O
ATOM	16967	N	MET	D	33	-50.726	-1.399	-73.026	1.00	34.54	D	N
ATOM	16968	CA	MET	D	33	-49.574	-1.868	-72.279	1.00	33.73	D	C
ATOM	16970	CB	MET	D	33	-48.299	-1.398	-72.969	1.00	35.54	D	C
ATOM	16973	CG	MET	D	33	-47.024	-1.894	-72.316	1.00	35.05	D	C
ATOM	16976	SD	MET	D	33	-47.103	-3.637	-72.053	1.00	32.83	D	S
ATOM	16977	CE	MET	D	33	-46.752	-4.307	-73.684	1.00	34.79	D	C
ATOM	16981	C	MET	D	33	-49.599	-1.323	-70.858	1.00	35.06	D	C
ATOM	16982	O	MET	D	33	-49.919	-0.163	-70.635	1.00	34.55	D	O
ATOM	16984	N	ASN	D	34	-49.256	-2.175	-69.900	1.00	37.22	D	N
ATOM	16985	CA	ASN	D	34	-49.210	-1.791	-68.498	1.00	34.26	D	C
ATOM	16987	CB	ASN	D	34	-50.226	-2.594	-67.675	1.00	30.41	D	C
ATOM	16990	CG	ASN	D	34	-51.609	-2.559	-68.246	1.00	26.95	D	C
ATOM	16991	OD1	ASN	D	34	-52.438	-1.753	-67.832	1.00	28.43	D	O
ATOM	16992	ND2	ASN	D	34	-51.876	-3.440	-69.204	1.00	25.17	D	N
ATOM	16995	C	ASN	D	34	-47.832	-2.061	-67.937	1.00	31.22	D	C
ATOM	16996	O	ASN	D	34	-47.124	-2.937	-68.419	1.00	31.75	D	O
ATOM	16998	N	TRP	D	35	-47.479	-1.330	-66.887	1.00	30.31	D	N
ATOM	16999	CA	TRP	D	35	-46.231	-1.576	-66.166	1.00	30.31	D	C
ATOM	17001	CB	TRP	D	35	-45.226	-0.434	-66.400	1.00	27.99	D	C
ATOM	17004	CG	TRP	D	35	-44.787	-0.331	-67.795	1.00	23.87	D	C
ATOM	17005	CD1	TRP	D	35	-45.316	0.473	-68.777	1.00	27.48	D	C
ATOM	17007	NE1	TRP	D	35	-44.647	0.275	-69.957	1.00	28.03	D	N
ATOM	17009	CE2	TRP	D	35	-43.670	-0.667	-69.752	1.00	25.79	D	C
ATOM	17010	CD2	TRP	D	35	-43.739	-1.072	-68.403	1.00	22.90	D	C
ATOM	17011	CE3	TRP	D	35	-42.835	-2.034	-67.934	1.00	26.25	D	C

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ATOM	17013	CZ3	TRP	D	35	-41.935	-2.550	-68.791	1.00	27.80	D	C
ATOM	17015	CH2	TRP	D	35	-41.881	-2.126	-70.136	1.00	26.87	D	C
ATOM	17017	CZ2	TRP	D	35	-42.745	-1.191	-70.628	1.00	26.43	D	C
ATOM	17019	C	TRP	D	35	-46.490	-1.735	-64.688	1.00	29.47	D	C
ATOM	17020	O	TRP	D	35	-47.255	-0.972	-64.116	1.00	27.85	D	O
ATOM	17022	N	TYR	D	36	-45.827	-2.722	-64.084	1.00	33.75	D	N
ATOM	17023	CA	TYR	D	36	-45.935	-3.014	-62.663	1.00	32.31	D	C
ATOM	17025	CB	TYR	D	36	-46.441	-4.436	-62.437	1.00	32.68	D	C
ATOM	17028	CG	TYR	D	36	-47.883	-4.710	-62.756	1.00	31.85	D	C
ATOM	17029	CD1	TYR	D	36	-48.869	-4.561	-61.785	1.00	32.56	D	C
ATOM	17031	CE1	TYR	D	36	-50.190	-4.854	-62.063	1.00	31.43	D	C
ATOM	17033	CZ	TYR	D	36	-50.537	-5.325	-63.317	1.00	31.13	D	C
ATOM	17034	OH	TYR	D	36	-51.839	-5.615	-63.591	1.00	31.78	D	O
ATOM	17036	CE2	TYR	D	36	-49.578	-5.499	-64.298	1.00	32.62	D	C
ATOM	17038	CD2	TYR	D	36	-48.257	-5.199	-64.010	1.00	33.48	D	C
ATOM	17040	C	TYR	D	36	-44.582	-2.942	-61.986	1.00	33.48	D	C
ATOM	17041	O	TYR	D	36	-43.559	-3.209	-62.599	1.00	31.99	D	O
ATOM	17043	N	GLN	D	37	-44.609	-2.636	-60.692	1.00	33.21	D	N
ATOM	17044	CA	GLN	D	37	-43.426	-2.663	-59.843	1.00	35.05	D	C
ATOM	17046	CB	GLN	D	37	-43.157	-1.268	-59.274	1.00	28.05	D	C
ATOM	17049	CG	GLN	D	37	-41.974	-1.162	-58.293	1.00	28.49	D	C
ATOM	17052	CD	GLN	D	37	-41.958	0.176	-57.562	1.00	35.08	D	C
ATOM	17053	OE1	GLN	D	37	-41.051	1.025	-57.748	1.00	35.60	D	O
ATOM	17054	NE2	GLN	D	37	-42.982	0.391	-56.747	1.00	30.68	D	N
ATOM	17057	C	GLN	D	37	-43.643	-3.676	-58.718	1.00	36.19	D	C
ATOM	17058	O	GLN	D	37	-44.680	-3.660	-58.065	1.00	35.65	D	O
ATOM	17060	N	GLN	D	38	-42.666	-4.551	-58.494	1.00	38.65	D	N
ATOM	17061	CA	GLN	D	38	-42.695	-5.429	-57.333	1.00	40.45	D	C
ATOM	17063	CB	GLN	D	38	-42.903	-6.871	-57.738	1.00	40.55	D	C
ATOM	17066	CG	GLN	D	38	-43.346	-7.719	-56.574	1.00	36.60	D	C
ATOM	17069	CD	GLN	D	38	-43.530	-9.124	-56.960	1.00	38.22	D	C
ATOM	17070	OE1	GLN	D	38	-42.947	-9.574	-57.954	1.00	38.62	D	O
ATOM	17071	NE2	GLN	D	38	-44.330	-9.863	-56.176	1.00	33.38	D	N
ATOM	17074	C	GLN	D	38	-41.437	-5.360	-56.478	1.00	40.74	D	C
ATOM	17075	O	GLN	D	38	-40.358	-5.761	-56.910	1.00	40.11	D	O
ATOM	17077	N	LYS	D	39	-41.611	-4.902	-55.239	1.00	45.57	D	N
ATOM	17078	CA	LYS	D	39	-40.513	-4.847	-54.277	1.00	49.68	D	C
ATOM	17080	CB	LYS	D	39	-40.688	-3.674	-53.298	1.00	48.49	D	C
ATOM	17083	CG	LYS	D	39	-40.313	-2.320	-53.902	1.00	49.06	D	C
ATOM	17086	CD	LYS	D	39	-40.700	-1.111	-53.036	1.00	50.81	D	C
ATOM	17089	CE	LYS	D	39	-40.925	0.153	-53.901	1.00	51.33	D	C
ATOM	17092	NZ	LYS	D	39	-41.271	1.446	-53.170	1.00	48.14	D	N
ATOM	17096	C	LYS	D	39	-40.414	-6.189	-53.551	1.00	55.21	D	C
ATOM	17097	O	LYS	D	39	-41.406	-6.931	-53.475	1.00	56.26	D	O
ATOM	17099	N	PRO	D	40	-39.211	-6.522	-53.038	1.00	62.05	D	N
ATOM	17100	CA	PRO	D	40	-38.889	-7.775	-52.360	1.00	62.70	D	C
ATOM	17102	CB	PRO	D	40	-37.899	-7.320	-51.274	1.00	68.80	D	C
ATOM	17105	CG	PRO	D	40	-37.405	-5.912	-51.724	1.00	68.23	D	C
ATOM	17108	CD	PRO	D	40	-38.009	-5.667	-53.075	1.00	66.28	D	C
ATOM	17111	C	PRO	D	40	-40.049	-8.603	-51.754	1.00	64.72	D	C
ATOM	17112	O	PRO	D	40	-40.291	-9.716	-52.216	1.00	67.84	D	O
ATOM	17113	N	GLY	D	41	-40.743	-8.099	-50.736	1.00	60.81	D	N
ATOM	17114	CA	GLY	D	41	-41.824	-8.880	-50.104	1.00	61.13	D	C
ATOM	17117	C	GLY	D	41	-43.178	-8.202	-50.190	1.00	62.86	D	C
ATOM	17118	O	GLY	D	41	-43.844	-8.018	-49.177	1.00	62.55	D	O
ATOM	17120	N	LYS	D	42	-43.580	-7.824	-51.405	1.00	59.84	D	N
ATOM	17121	CA	LYS	D	42	-44.774	-7.003	-51.602	1.00	54.31	D	C
ATOM	17123	CB	LYS	D	42	-44.346	-5.550	-51.857	1.00	59.34	D	C
ATOM	17126	CG	LYS	D	42	-43.352	-4.965	-50.832	1.00	64.55	D	C
ATOM	17129	CD	LYS	D	42	-44.031	-4.101	-49.771	1.00	68.76	D	C
ATOM	17132	CE	LYS	D	42	-44.077	-2.621	-50.192	1.00	71.41	D	C
ATOM	17135	NZ	LYS	D	42	-45.084	-1.787	-49.438	1.00	69.98	D	N
ATOM	17139	C	LYS	D	42	-45.647	-7.499	-52.759	1.00	46.47	D	C
ATOM	17140	O	LYS	D	42	-45.206	-8.274	-53.607	1.00	43.15	D	O
ATOM	17142	N	VAL	D	43	-46.906	-7.070	-52.762	1.00	46.91	D	N
ATOM	17143	CA	VAL	D	43	-47.781	-7.313	-53.907	1.00	45.27	D	C
ATOM	17145	CB	VAL	D	43	-49.290	-7.118	-53.587	1.00	42.88	D	C
ATOM	17147	CG1	VAL	D	43	-49.777	-8.226	-52.666	1.00	47.92	D	C

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ATOM	17151	CG2	VAL	D	43	-49.566	-5.763	-52.964	1.00	38.10	D	C
ATOM	17155	C	VAL	D	43	-47.322	-6.400	-55.055	1.00	40.73	D	C
ATOM	17156	O	VAL	D	43	-46.735	-5.325	-54.826	1.00	36.31	D	O
ATOM	17158	N	PRO	D	44	-47.506	-6.857	-56.302	1.00	37.70	D	N
ATOM	17159	CA	PRO	D	44	-47.237	-5.917	-57.373	1.00	37.73	D	C
ATOM	17161	CB	PRO	D	44	-47.387	-6.767	-58.636	1.00	35.99	D	C
ATOM	17164	CG	PRO	D	44	-47.226	-8.170	-58.167	1.00	35.89	D	C
ATOM	17167	CD	PRO	D	44	-47.856	-8.187	-56.826	1.00	37.78	D	C
ATOM	17170	C	PRO	D	44	-48.145	-4.658	-57.350	1.00	33.22	D	C
ATOM	17171	O	PRO	D	44	-49.252	-4.671	-56.807	1.00	30.46	D	O
ATOM	17172	N	LYS	D	45	-47.577	-3.586	-57.908	1.00	36.13	D	N
ATOM	17173	CA	LYS	D	45	-48.092	-2.245	-57.903	1.00	34.90	D	C
ATOM	17175	CB	LYS	D	45	-47.117	-1.387	-57.087	1.00	33.30	D	C
ATOM	17178	CG	LYS	D	45	-47.384	0.103	-57.071	1.00	34.78	D	C
ATOM	17181	CD	LYS	D	45	-48.734	0.424	-56.457	1.00	35.10	D	C
ATOM	17184	CE	LYS	D	45	-49.129	1.883	-56.720	1.00	36.17	D	C
ATOM	17187	NZ	LYS	D	45	-50.562	2.127	-56.397	1.00	33.12	D	N
ATOM	17191	C	LYS	D	45	-48.148	-1.778	-59.351	1.00	32.75	D	C
ATOM	17192	O	LYS	D	45	-47.126	-1.711	-60.021	1.00	31.69	D	O
ATOM	17194	N	LEU	D	46	-49.342	-1.473	-59.831	1.00	33.92	D	N
ATOM	17195	CA	LEU	D	46	-49.527	-0.944	-61.167	1.00	31.60	D	C
ATOM	17197	CB	LEU	D	46	-50.995	-1.056	-61.563	1.00	25.10	D	C
ATOM	17200	CG	LEU	D	46	-51.328	-0.684	-62.995	1.00	26.28	D	C
ATOM	17202	CD1	LEU	D	46	-50.766	-1.744	-63.983	1.00	19.78	D	C
ATOM	17206	CD2	LEU	D	46	-52.828	-0.530	-63.083	1.00	20.73	D	C
ATOM	17210	C	LEU	D	46	-49.080	0.501	-61.201	1.00	34.09	D	C
ATOM	17211	O	LEU	D	46	-49.657	1.352	-60.495	1.00	34.55	D	O
ATOM	17213	N	LEU	D	47	-48.051	0.770	-62.017	1.00	34.89	D	N
ATOM	17214	CA	LEU	D	47	-47.491	2.129	-62.185	1.00	34.06	D	C
ATOM	17216	CB	LEU	D	47	-45.982	2.056	-62.405	1.00	33.90	D	C
ATOM	17219	CG	LEU	D	47	-45.112	1.325	-61.375	1.00	31.98	D	C
ATOM	17221	CD1	LEU	D	47	-43.731	1.209	-61.924	1.00	30.26	D	C
ATOM	17225	CD2	LEU	D	47	-45.099	2.023	-60.017	1.00	27.87	D	C
ATOM	17229	C	LEU	D	47	-48.105	2.882	-63.362	1.00	33.92	D	C
ATOM	17230	O	LEU	D	47	-48.419	4.055	-63.246	1.00	34.67	D	O
ATOM	17232	N	ILE	D	48	-48.264	2.188	-64.486	1.00	33.43	D	N
ATOM	17233	CA	ILE	D	48	-48.694	2.778	-65.757	1.00	34.40	D	C
ATOM	17235	CB	ILE	D	48	-47.514	2.969	-66.751	1.00	31.56	D	C
ATOM	17237	CG1	ILE	D	48	-46.427	3.911	-66.179	1.00	31.94	D	C
ATOM	17240	CD1	ILE	D	48	-46.760	5.404	-66.289	1.00	32.59	D	C
ATOM	17244	CG2	ILE	D	48	-48.027	3.483	-68.086	1.00	27.10	D	C
ATOM	17248	C	ILE	D	48	-49.716	1.848	-66.418	1.00	36.17	D	C
ATOM	17249	O	ILE	D	48	-49.492	0.639	-66.489	1.00	29.66	D	O
ATOM	17251	N	SER	D	49	-50.841	2.419	-66.864	1.00	37.17	D	N
ATOM	17252	CA	SER	D	49	-51.838	1.663	-67.603	1.00	39.71	D	C
ATOM	17254	CB	SER	D	49	-53.217	1.703	-66.928	1.00	35.81	D	C
ATOM	17257	OG	SER	D	49	-53.808	2.994	-66.925	1.00	34.88	D	O
ATOM	17259	C	SER	D	49	-51.880	2.173	-69.023	1.00	40.18	D	C
ATOM	17260	O	SER	D	49	-51.267	3.182	-69.327	1.00	39.63	D	O
ATOM	17262	N	GLY	D	50	-52.590	1.444	-69.877	1.00	47.29	D	N
ATOM	17263	CA	GLY	D	50	-52.633	1.693	-71.297	1.00	50.45	D	C
ATOM	17266	C	GLY	D	50	-52.791	3.147	-71.633	1.00	56.73	D	C
ATOM	17267	O	GLY	D	50	-53.459	3.888	-70.915	1.00	64.25	D	O
ATOM	17269	N	GLY	D	51	-52.168	3.559	-72.728	1.00	57.11	D	N
ATOM	17270	CA	GLY	D	51	-52.112	4.974	-73.092	1.00	56.80	D	C
ATOM	17273	C	GLY	D	51	-50.997	5.690	-72.347	1.00	59.03	D	C
ATOM	17274	O	GLY	D	51	-50.876	6.924	-72.424	1.00	60.10	D	O
ATOM	17276	N	ASN	D	52	-50.183	4.902	-71.634	1.00	54.22	D	N
ATOM	17277	CA	ASN	D	52	-49.074	5.404	-70.833	1.00	50.11	D	C
ATOM	17279	CB	ASN	D	52	-47.993	5.894	-71.772	1.00	49.44	D	C
ATOM	17282	CG	ASN	D	52	-47.510	4.764	-72.684	1.00	51.75	D	C
ATOM	17283	OD1	ASN	D	52	-47.080	3.710	-72.186	1.00	42.13	D	O
ATOM	17284	ND2	ASN	D	52	-47.634	4.947	-74.016	1.00	49.68	D	N
ATOM	17287	C	ASN	D	52	-49.545	6.410	-69.792	1.00	44.27	D	C
ATOM	17288	O	ASN	D	52	-49.001	7.500	-69.617	1.00	39.54	D	O
ATOM	17290	N	THR	D	53	-50.598	5.986	-69.105	1.00	43.15	D	N
ATOM	17291	CA	THR	D	53	-51.260	6.784	-68.097	1.00	43.77	D	C
ATOM	17293	CB	THR	D	53	-52.777	6.495	-68.073	1.00	41.11	D	C

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ATOM	17295	OG1	THR	D	53	-53.299	6.630	-69.396	1.00	39.66	D	O
ATOM	17297	CG2	THR	D	53	-53.519	7.442	-67.109	1.00	34.90	D	C
ATOM	17301	C	THR	D	53	-50.672	6.450	-66.742	1.00	39.58	D	C
ATOM	17302	O	THR	D	53	-50.795	5.328	-66.255	1.00	38.47	D	O
ATOM	17304	N	LEU	D	54	-50.036	7.443	-66.139	1.00	40.49	D	N
ATOM	17305	CA	LEU	D	54	-49.534	7.325	-64.795	1.00	41.11	D	C
ATOM	17307	CB	LEU	D	54	-48.761	8.584	-64.437	1.00	36.74	D	C
ATOM	17310	CG	LEU	D	54	-47.930	8.611	-63.163	1.00	35.52	D	C
ATOM	17312	CD1	LEU	D	54	-46.904	7.506	-63.167	1.00	31.70	D	C
ATOM	17316	CD2	LEU	D	54	-47.269	9.997	-63.050	1.00	36.39	D	C
ATOM	17320	C	LEU	D	54	-50.706	7.126	-63.850	1.00	44.45	D	C
ATOM	17321	O	LEU	D	54	-51.739	7.791	-63.981	1.00	45.88	D	O
ATOM	17323	N	ARG	D	55	-50.545	6.215	-62.898	1.00	45.28	D	N
ATOM	17324	CA	ARG	D	55	-51.611	5.899	-61.951	1.00	43.82	D	C
ATOM	17326	CB	ARG	D	55	-51.563	4.436	-61.518	1.00	38.35	D	C
ATOM	17329	CG	ARG	D	55	-51.536	3.461	-62.675	1.00	36.89	D	C
ATOM	17332	CD	ARG	D	55	-52.819	3.536	-63.488	1.00	35.01	D	C
ATOM	17335	NE	ARG	D	55	-53.909	2.894	-62.769	1.00	32.16	D	N
ATOM	17337	CZ	ARG	D	55	-55.043	2.518	-63.332	1.00	30.74	D	C
ATOM	17338	NH1	ARG	D	55	-55.227	2.742	-64.611	1.00	30.81	D	N
ATOM	17341	NH2	ARG	D	55	-55.987	1.916	-62.613	1.00	29.27	D	N
ATOM	17344	C	ARG	D	55	-51.531	6.778	-60.729	1.00	46.70	D	C
ATOM	17345	O	ARG	D	55	-50.476	7.326	-60.431	1.00	47.48	D	O
ATOM	17347	N	PRO	D	56	-52.672	6.958	-60.046	1.00	51.21	D	N
ATOM	17348	CA	PRO	D	56	-52.758	7.650	-58.764	1.00	50.30	D	C
ATOM	17350	CB	PRO	D	56	-54.130	7.221	-58.255	1.00	53.21	D	C
ATOM	17353	CG	PRO	D	56	-54.944	7.156	-59.506	1.00	52.73	D	C
ATOM	17356	CD	PRO	D	56	-54.011	6.547	-60.523	1.00	49.72	D	C
ATOM	17359	C	PRO	D	56	-51.649	7.313	-57.761	1.00	51.06	D	C
ATOM	17360	O	PRO	D	56	-51.457	6.150	-57.403	1.00	49.12	D	O
ATOM	17361	N	GLY	D	57	-50.915	8.350	-57.350	1.00	51.01	D	N
ATOM	17362	CA	GLY	D	57	-49.930	8.250	-56.279	1.00	49.74	D	C
ATOM	17365	C	GLY	D	57	-48.654	7.557	-56.691	1.00	48.20	D	C
ATOM	17366	O	GLY	D	57	-47.962	6.954	-55.852	1.00	50.72	D	O
ATOM	17368	N	VAL	D	58	-48.359	7.621	-57.985	1.00	44.93	D	N
ATOM	17369	CA	VAL	D	58	-47.138	7.053	-58.524	1.00	45.49	D	C
ATOM	17371	CB	VAL	D	58	-47.456	6.088	-59.729	1.00	42.99	D	C
ATOM	17373	CG1	VAL	D	58	-46.186	5.499	-60.332	1.00	40.31	D	C
ATOM	17377	CG2	VAL	D	58	-48.396	4.937	-59.281	1.00	39.31	D	C
ATOM	17381	C	VAL	D	58	-46.296	8.274	-58.906	1.00	43.15	D	C
ATOM	17382	O	VAL	D	58	-46.792	9.155	-59.598	1.00	47.44	D	O
ATOM	17384	N	PRO	D	59	-45.045	8.359	-58.423	1.00	42.17	D	N
ATOM	17385	CA	PRO	D	59	-44.238	9.532	-58.770	1.00	44.09	D	C
ATOM	17387	CB	PRO	D	59	-42.874	9.232	-58.143	1.00	38.38	D	C
ATOM	17390	CG	PRO	D	59	-43.130	8.245	-57.085	1.00	39.16	D	C
ATOM	17393	CD	PRO	D	59	-44.309	7.429	-57.547	1.00	42.40	D	C
ATOM	17396	C	PRO	D	59	-44.117	9.758	-60.284	1.00	47.18	D	C
ATOM	17397	O	PRO	D	59	-44.098	8.804	-61.072	1.00	46.90	D	O
ATOM	17398	N	SER	D	60	-44.050	11.030	-60.667	1.00	49.68	D	N
ATOM	17399	CA	SER	D	60	-43.988	11.441	-62.066	1.00	46.46	D	C
ATOM	17401	CB	SER	D	60	-44.247	12.938	-62.154	1.00	43.76	D	C
ATOM	17404	OG	SER	D	60	-43.384	13.605	-61.248	1.00	50.04	D	O
ATOM	17406	C	SER	D	60	-42.653	11.096	-62.739	1.00	44.56	D	C
ATOM	17407	O	SER	D	60	-42.542	11.207	-63.956	1.00	40.72	D	O
ATOM	17409	N	ARG	D	61	-41.652	10.680	-61.953	1.00	44.17	D	N
ATOM	17410	CA	ARG	D	61	-40.384	10.166	-62.499	1.00	40.43	D	C
ATOM	17412	CB	ARG	D	61	-39.329	9.997	-61.387	1.00	38.02	D	C
ATOM	17415	CG	ARG	D	61	-39.632	8.969	-60.306	1.00	39.70	D	C
ATOM	17418	CD	ARG	D	61	-38.426	8.708	-59.378	1.00	39.65	D	C
ATOM	17421	NE	ARG	D	61	-38.745	7.742	-58.320	1.00	38.21	D	N
ATOM	17423	CZ	ARG	D	61	-39.349	8.062	-57.171	1.00	41.51	D	C
ATOM	17424	NH1	ARG	D	61	-39.727	9.315	-56.917	1.00	44.27	D	N
ATOM	17427	NH2	ARG	D	61	-39.606	7.127	-56.262	1.00	38.54	D	N
ATOM	17430	C	ARG	D	61	-40.587	8.872	-63.326	1.00	39.80	D	C
ATOM	17431	O	ARG	D	61	-39.771	8.541	-64.184	1.00	37.69	D	O
ATOM	17433	N	PHE	D	62	-41.695	8.170	-63.075	1.00	39.86	D	N
ATOM	17434	CA	PHE	D	62	-42.136	7.057	-63.903	1.00	35.79	D	C
ATOM	17436	CB	PHE	D	62	-42.968	6.089	-63.075	1.00	28.77	D	C

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ATOM	17439	CG	PHE	D	62	-42.208	5.447	-61.962	1.00	27.76	D	C
ATOM	17440	CD1	PHE	D	62	-41.388	4.349	-62.210	1.00	26.83	D	C
ATOM	17442	CE1	PHE	D	62	-40.655	3.767	-61.180	1.00	25.90	D	C
ATOM	17444	CZ	PHE	D	62	-40.748	4.265	-59.904	1.00	24.27	D	C
ATOM	17446	CE2	PHE	D	62	-41.568	5.343	-59.640	1.00	26.74	D	C
ATOM	17448	CD2	PHE	D	62	-42.288	5.940	-60.666	1.00	26.76	D	C
ATOM	17450	C	PHE	D	62	-42.977	7.542	-65.090	1.00	38.99	D	C
ATOM	17451	O	PHE	D	62	-43.862	8.384	-64.935	1.00	40.31	D	O
ATOM	17453	N	SER	D	63	-42.686	7.007	-66.273	1.00	39.17	D	N
ATOM	17454	CA	SER	D	63	-43.438	7.317	-67.474	1.00	36.38	D	C
ATOM	17456	CB	SER	D	63	-42.955	8.630	-68.093	1.00	36.88	D	C
ATOM	17459	OG	SER	D	63	-41.639	8.510	-68.580	1.00	40.53	D	O
ATOM	17461	C	SER	D	63	-43.348	6.199	-68.498	1.00	35.84	D	C
ATOM	17462	O	SER	D	63	-42.360	5.502	-68.584	1.00	35.92	D	O
ATOM	17464	N	GLY	D	64	-44.401	6.040	-69.283	1.00	38.54	D	N
ATOM	17465	CA	GLY	D	64	-44.443	5.041	-70.344	1.00	36.67	D	C
ATOM	17468	C	GLY	D	64	-44.557	5.685	-71.714	1.00	38.04	D	C
ATOM	17469	O	GLY	D	64	-44.996	6.821	-71.849	1.00	38.33	D	O
ATOM	17471	N	SER	D	65	-44.150	4.943	-72.732	1.00	38.46	D	N
ATOM	17472	CA	SER	D	65	-44.244	5.401	-74.104	1.00	38.82	D	C
ATOM	17474	CB	SER	D	65	-43.104	6.372	-74.438	1.00	40.82	D	C
ATOM	17477	OG	SER	D	65	-41.835	5.803	-74.180	1.00	45.84	D	O
ATOM	17479	C	SER	D	65	-44.263	4.207	-75.057	1.00	41.29	D	C
ATOM	17480	O	SER	D	65	-43.881	3.091	-74.688	1.00	37.98	D	O
ATOM	17482	N	GLY	D	66	-44.717	4.462	-76.278	1.00	43.31	D	N
ATOM	17483	CA	GLY	D	66	-44.832	3.435	-77.289	1.00	41.05	D	C
ATOM	17486	C	GLY	D	66	-46.264	3.125	-77.632	1.00	41.45	D	C
ATOM	17487	O	GLY	D	66	-47.178	3.485	-76.915	1.00	42.06	D	O
ATOM	17489	N	SER	D	67	-46.446	2.456	-78.757	1.00	42.39	D	N
ATOM	17490	CA	SER	D	67	-47.760	2.131	-79.270	1.00	42.75	D	C
ATOM	17492	CB	SER	D	67	-48.488	3.376	-79.766	1.00	43.07	D	C
ATOM	17495	OG	SER	D	67	-49.648	2.999	-80.473	1.00	45.00	D	O
ATOM	17497	C	SER	D	67	-47.571	1.157	-80.408	1.00	43.19	D	C
ATOM	17498	O	SER	D	67	-46.577	1.224	-81.124	1.00	48.13	D	O
ATOM	17500	N	GLY	D	68	-48.519	0.241	-80.556	1.00	44.00	D	N
ATOM	17501	CA	GLY	D	68	-48.408	-0.842	-81.519	1.00	41.75	D	C
ATOM	17504	C	GLY	D	68	-47.724	-2.055	-80.913	1.00	44.43	D	C
ATOM	17505	O	GLY	D	68	-48.373	-2.868	-80.259	1.00	42.18	D	O
ATOM	17507	N	THR	D	69	-46.409	-2.165	-81.105	1.00	43.95	D	N
ATOM	17508	CA	THR	D	69	-45.671	-3.358	-80.674	1.00	40.40	D	C
ATOM	17510	CB	THR	D	69	-45.160	-4.222	-81.859	1.00	41.35	D	C
ATOM	17512	OG1	THR	D	69	-44.059	-3.580	-82.504	1.00	42.22	D	O
ATOM	17514	CG2	THR	D	69	-46.267	-4.495	-82.882	1.00	42.62	D	C
ATOM	17518	C	THR	D	69	-44.506	-3.078	-79.720	1.00	36.97	D	C
ATOM	17519	O	THR	D	69	-44.123	-3.974	-78.980	1.00	38.90	D	O
ATOM	17521	N	ASP	D	70	-44.004	-1.838	-79.694	1.00	35.57	D	N
ATOM	17522	CA	ASP	D	70	-42.734	-1.474	-79.052	1.00	37.06	D	C
ATOM	17524	CB	ASP	D	70	-41.826	-0.755	-80.068	1.00	38.45	D	C
ATOM	17527	CG	ASP	D	70	-41.124	-1.705	-81.060	1.00	43.59	D	C
ATOM	17528	OD1	ASP	D	70	-41.464	-2.912	-81.207	1.00	40.00	D	O
ATOM	17529	OD2	ASP	D	70	-40.185	-1.201	-81.713	1.00	48.32	D	O
ATOM	17530	C	ASP	D	70	-42.964	-0.511	-77.878	1.00	36.49	D	C
ATOM	17531	O	ASP	D	70	-43.244	0.654	-78.097	1.00	37.09	D	O
ATOM	17533	N	PHE	D	71	-42.787	-0.981	-76.641	1.00	38.41	D	N
ATOM	17534	CA	PHE	D	71	-43.106	-0.183	-75.446	1.00	35.81	D	C
ATOM	17536	CB	PHE	D	71	-44.277	-0.818	-74.677	1.00	30.00	D	C
ATOM	17539	CG	PHE	D	71	-45.506	-0.954	-75.503	1.00	25.69	D	C
ATOM	17540	CD1	PHE	D	71	-46.491	-0.001	-75.456	1.00	23.97	D	C
ATOM	17542	CE1	PHE	D	71	-47.602	-0.103	-76.240	1.00	24.56	D	C
ATOM	17544	CZ	PHE	D	71	-47.734	-1.151	-77.101	1.00	23.65	D	C
ATOM	17546	CE2	PHE	D	71	-46.767	-2.098	-77.169	1.00	23.88	D	C
ATOM	17548	CD2	PHE	D	71	-45.641	-2.002	-76.384	1.00	27.39	D	C
ATOM	17550	C	PHE	D	71	-41.928	0.013	-74.513	1.00	35.56	D	C
ATOM	17551	O	PHE	D	71	-41.070	-0.861	-74.377	1.00	37.95	D	O
ATOM	17553	N	THR	D	72	-41.903	1.174	-73.873	1.00	33.23	D	N
ATOM	17554	CA	THR	D	72	-40.794	1.571	-73.021	1.00	37.46	D	C
ATOM	17556	CB	THR	D	72	-39.918	2.640	-73.741	1.00	34.53	D	C
ATOM	17558	OG1	THR	D	72	-39.376	2.072	-74.941	1.00	37.40	D	O

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ATOM	17560	CG2	THR	D	72	-38.785	3.119	-72.865	1.00	27.41	D	C
ATOM	17564	C	THR	D	72	-41.271	2.146	-71.688	1.00	36.64	D	C
ATOM	17565	O	THR	D	72	-42.141	3.018	-71.665	1.00	37.03	D	O
ATOM	17567	N	LEU	D	73	-40.681	1.653	-70.597	1.00	33.05	D	N
ATOM	17568	CA	LEU	D	73	-40.833	2.256	-69.269	1.00	34.80	D	C
ATOM	17570	CB	LEU	D	73	-41.049	1.180	-68.194	1.00	30.43	D	C
ATOM	17573	CG	LEU	D	73	-40.999	1.635	-66.732	1.00	30.48	D	C
ATOM	17575	CD1	LEU	D	73	-42.244	2.474	-66.347	1.00	28.28	D	C
ATOM	17579	CD2	LEU	D	73	-40.783	0.466	-65.780	1.00	21.69	D	C
ATOM	17583	C	LEU	D	73	-39.557	3.028	-68.941	1.00	39.42	D	C
ATOM	17584	O	LEU	D	73	-38.456	2.469	-69.035	1.00	41.38	D	O
ATOM	17586	N	THR	D	74	-39.710	4.284	-68.523	1.00	36.43	D	N
ATOM	17587	CA	THR	D	74	-38.579	5.137	-68.172	1.00	35.96	D	C
ATOM	17589	CB	THR	D	74	-38.465	6.375	-69.114	1.00	35.05	D	C
ATOM	17591	OG1	THR	D	74	-38.371	5.952	-70.494	1.00	32.33	D	O
ATOM	17593	CG2	THR	D	74	-37.261	7.219	-68.744	1.00	26.80	D	C
ATOM	17597	C	THR	D	74	-38.728	5.622	-66.736	1.00	39.64	D	C
ATOM	17598	O	THR	D	74	-39.755	6.205	-66.393	1.00	36.35	D	O
ATOM	17600	N	ILE	D	75	-37.707	5.364	-65.909	1.00	38.18	D	N
ATOM	17601	CA	ILE	D	75	-37.559	6.021	-64.609	1.00	38.32	D	C
ATOM	17603	CB	ILE	D	75	-37.103	5.037	-63.505	1.00	37.96	D	C
ATOM	17605	CG1	ILE	D	75	-37.964	3.764	-63.519	1.00	35.94	D	C
ATOM	17608	CD1	ILE	D	75	-37.345	2.571	-62.825	1.00	35.28	D	C
ATOM	17612	CG2	ILE	D	75	-37.150	5.720	-62.126	1.00	36.47	D	C
ATOM	17616	C	ILE	D	75	-36.524	7.133	-64.796	1.00	39.92	D	C
ATOM	17617	O	ILE	D	75	-35.360	6.853	-65.023	1.00	40.12	D	O
ATOM	17619	N	SER	D	76	-36.952	8.389	-64.719	1.00	43.39	D	N
ATOM	17620	CA	SER	D	76	-36.146	9.522	-65.198	1.00	45.47	D	C
ATOM	17622	CB	SER	D	76	-37.017	10.766	-65.415	1.00	44.14	D	C
ATOM	17625	OG	SER	D	76	-37.332	11.406	-64.173	1.00	46.89	D	O
ATOM	17627	C	SER	D	76	-35.006	9.880	-64.263	1.00	48.55	D	C
ATOM	17628	O	SER	D	76	-33.958	10.380	-64.700	1.00	53.87	D	O
ATOM	17630	N	SER	D	77	-35.220	9.651	-62.978	1.00	45.31	D	N
ATOM	17631	CA	SER	D	77	-34.213	9.981	-61.986	1.00	44.77	D	C
ATOM	17633	CB	SER	D	77	-34.418	11.423	-61.500	1.00	45.28	D	C
ATOM	17636	OG	SER	D	77	-33.721	11.656	-60.291	1.00	53.02	D	O
ATOM	17638	C	SER	D	77	-34.289	8.948	-60.856	1.00	43.15	D	C
ATOM	17639	O	SER	D	77	-34.973	9.157	-59.859	1.00	46.57	D	O
ATOM	17641	N	LEU	D	78	-33.571	7.845	-61.044	1.00	36.02	D	N
ATOM	17642	CA	LEU	D	78	-33.629	6.693	-60.164	1.00	37.92	D	C
ATOM	17644	CB	LEU	D	78	-32.617	5.643	-60.635	1.00	36.50	D	C
ATOM	17647	CG	LEU	D	78	-32.696	4.278	-59.969	1.00	38.22	D	C
ATOM	17649	CD1	LEU	D	78	-34.033	3.613	-60.305	1.00	39.21	D	C
ATOM	17653	CD2	LEU	D	78	-31.508	3.413	-60.386	1.00	38.71	D	C
ATOM	17657	C	LEU	D	78	-33.386	7.016	-58.688	1.00	35.46	D	C
ATOM	17658	O	LEU	D	78	-32.422	7.680	-58.334	1.00	37.47	D	O
ATOM	17660	N	GLN	D	79	-34.283	6.537	-57.831	1.00	38.02	D	N
ATOM	17661	CA	GLN	D	79	-34.200	6.765	-56.391	1.00	39.42	D	C
ATOM	17663	CB	GLN	D	79	-35.502	7.401	-55.855	1.00	35.52	D	C
ATOM	17666	CG	GLN	D	79	-35.782	8.814	-56.314	1.00	31.66	D	C
ATOM	17669	CD	GLN	D	79	-34.670	9.778	-55.963	1.00	36.40	D	C
ATOM	17670	OE1	GLN	D	79	-34.027	10.372	-56.853	1.00	41.81	D	O
ATOM	17671	NE2	GLN	D	79	-34.408	9.923	-54.670	1.00	38.07	D	N
ATOM	17674	C	GLN	D	79	-33.965	5.458	-55.674	1.00	37.58	D	C
ATOM	17675	O	GLN	D	79	-34.302	4.417	-56.201	1.00	38.75	D	O
ATOM	17677	N	PRO	D	80	-33.387	5.503	-54.457	1.00	40.59	D	N
ATOM	17678	CA	PRO	D	80	-33.161	4.259	-53.695	1.00	41.83	D	C
ATOM	17680	CB	PRO	D	80	-32.679	4.767	-52.332	1.00	40.95	D	C
ATOM	17683	CG	PRO	D	80	-32.063	6.098	-52.644	1.00	40.25	D	C
ATOM	17686	CD	PRO	D	80	-32.895	6.688	-53.721	1.00	38.34	D	C
ATOM	17689	C	PRO	D	80	-34.401	3.360	-53.531	1.00	41.58	D	C
ATOM	17690	O	PRO	D	80	-34.303	2.137	-53.690	1.00	40.30	D	O
ATOM	17691	N	GLU	D	81	-35.551	3.957	-53.235	1.00	40.96	D	N
ATOM	17692	CA	GLU	D	81	-36.799	3.192	-53.083	1.00	41.06	D	C
ATOM	17694	CB	GLU	D	81	-37.913	4.070	-52.493	1.00	42.37	D	C
ATOM	17697	CG	GLU	D	81	-38.345	5.257	-53.347	1.00	43.97	D	C
ATOM	17700	CD	GLU	D	81	-37.804	6.588	-52.833	1.00	52.48	D	C
ATOM	17701	OE1	GLU	D	81	-36.571	6.707	-52.607	1.00	50.07	D	O

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ATOM	17702	OE2	GLU	D	81	-38.628	7.519	-52.653	1.00	57.71	D	O
ATOM	17703	C	GLU	D	81	-37.315	2.504	-54.367	1.00	40.11	D	C
ATOM	17704	O	GLU	D	81	-38.235	1.691	-54.297	1.00	39.57	D	O
ATOM	17706	N	ASP	D	82	-36.714	2.812	-55.513	1.00	40.13	D	N
ATOM	17707	CA	ASP	D	82	-37.126	2.264	-56.799	1.00	40.22	D	C
ATOM	17709	CB	ASP	D	82	-36.738	3.234	-57.933	1.00	40.59	D	C
ATOM	17712	CG	ASP	D	82	-37.456	4.560	-57.832	1.00	36.67	D	C
ATOM	17713	OD1	ASP	D	82	-38.498	4.622	-57.144	1.00	39.80	D	O
ATOM	17714	OD2	ASP	D	82	-36.992	5.529	-58.440	1.00	32.08	D	O
ATOM	17715	C	ASP	D	82	-36.538	0.903	-57.094	1.00	41.61	D	C
ATOM	17716	O	ASP	D	82	-36.848	0.323	-58.146	1.00	44.42	D	O
ATOM	17718	N	VAL	D	83	-35.687	0.399	-56.197	1.00	38.81	D	N
ATOM	17719	CA	VAL	D	83	-35.130	-0.944	-56.344	1.00	38.29	D	C
ATOM	17721	CB	VAL	D	83	-33.970	-1.218	-55.325	1.00	37.45	D	C
ATOM	17723	CG1	VAL	D	83	-34.451	-1.158	-53.905	1.00	41.14	D	C
ATOM	17727	CG2	VAL	D	83	-33.340	-2.563	-55.577	1.00	40.26	D	C
ATOM	17731	C	VAL	D	83	-36.278	-1.970	-56.213	1.00	41.19	D	C
ATOM	17732	O	VAL	D	83	-37.025	-1.983	-55.239	1.00	43.73	D	O
ATOM	17734	N	ALA	D	84	-36.421	-2.813	-57.230	1.00	38.64	D	N
ATOM	17735	CA	ALA	D	84	-37.630	-3.613	-57.422	1.00	35.15	D	C
ATOM	17737	CB	ALA	D	84	-38.859	-2.653	-57.648	1.00	28.02	D	C
ATOM	17741	C	ALA	D	84	-37.417	-4.471	-58.649	1.00	35.36	D	C
ATOM	17742	O	ALA	D	84	-36.434	-4.268	-59.357	1.00	32.60	D	O
ATOM	17744	N	THR	D	85	-38.314	-5.431	-58.907	1.00	34.15	D	N
ATOM	17745	CA	THR	D	85	-38.426	-6.035	-60.247	1.00	33.32	D	C
ATOM	17747	CB	THR	D	85	-38.403	-7.572	-60.208	1.00	36.97	D	C
ATOM	17749	OG1	THR	D	85	-37.199	-8.031	-59.557	1.00	32.91	D	O
ATOM	17751	CG2	THR	D	85	-38.463	-8.165	-61.617	1.00	30.74	D	C
ATOM	17755	C	THR	D	85	-39.682	-5.453	-60.950	1.00	35.11	D	C
ATOM	17756	O	THR	D	85	-40.745	-5.311	-60.353	1.00	36.71	D	O
ATOM	17758	N	TYR	D	86	-39.510	-5.060	-62.208	1.00	38.15	D	N
ATOM	17759	CA	TYR	D	86	-40.526	-4.370	-62.989	1.00	35.18	D	C
ATOM	17761	CB	TYR	D	86	-39.919	-3.105	-63.609	1.00	32.82	D	C
ATOM	17764	CG	TYR	D	86	-39.692	-2.030	-62.579	1.00	32.79	D	C
ATOM	17765	CD1	TYR	D	86	-40.714	-1.165	-62.215	1.00	33.11	D	C
ATOM	17767	CE1	TYR	D	86	-40.503	-0.195	-61.263	1.00	33.29	D	C
ATOM	17769	CZ	TYR	D	86	-39.276	-0.105	-60.652	1.00	29.81	D	C
ATOM	17770	OH	TYR	D	86	-39.062	0.846	-59.693	1.00	31.53	D	O
ATOM	17772	CE2	TYR	D	86	-38.271	-0.960	-60.987	1.00	26.87	D	C
ATOM	17774	CD2	TYR	D	86	-38.474	-1.908	-61.936	1.00	29.53	D	C
ATOM	17776	C	TYR	D	86	-41.036	-5.288	-64.078	1.00	34.53	D	C
ATOM	17777	O	TYR	D	86	-40.257	-6.027	-64.682	1.00	32.46	D	O
ATOM	17779	N	TYR	D	87	-42.339	-5.253	-64.310	1.00	33.76	D	N
ATOM	17780	CA	TYR	D	87	-43.017	-6.174	-65.244	1.00	31.51	D	C
ATOM	17782	CB	TYR	D	87	-43.875	-7.181	-64.475	1.00	27.78	D	C
ATOM	17785	CG	TYR	D	87	-43.073	-8.116	-63.593	1.00	30.93	D	C
ATOM	17786	CD1	TYR	D	87	-42.448	-9.219	-64.130	1.00	25.34	D	C
ATOM	17788	CE1	TYR	D	87	-41.732	-10.075	-63.359	1.00	26.90	D	C
ATOM	17790	CZ	TYR	D	87	-41.620	-9.857	-62.021	1.00	28.52	D	C
ATOM	17791	OH	TYR	D	87	-40.878	-10.744	-61.273	1.00	30.59	D	O
ATOM	17793	CE2	TYR	D	87	-42.232	-8.773	-61.434	1.00	28.56	D	C
ATOM	17795	CD2	TYR	D	87	-42.955	-7.898	-62.222	1.00	31.15	D	C
ATOM	17797	C	TYR	D	87	-43.942	-5.398	-66.148	1.00	31.19	D	C
ATOM	17798	O	TYR	D	87	-44.720	-4.579	-65.665	1.00	33.53	D	O
ATOM	17800	N	CYS	D	88	-43.855	-5.645	-67.449	1.00	30.54	D	N
ATOM	17801	CA	CYS	D	88	-44.883	-5.163	-68.363	1.00	30.46	D	C
ATOM	17803	CB	CYS	D	88	-44.325	-4.886	-69.755	1.00	28.22	D	C
ATOM	17806	SG	CYS	D	88	-43.797	-6.342	-70.731	1.00	31.02	D	S
ATOM	17808	C	CYS	D	88	-46.022	-6.193	-68.426	1.00	32.46	D	C
ATOM	17809	O	CYS	D	88	-45.843	-7.373	-68.118	1.00	31.88	D	O
ATOM	17811	N	LEU	D	89	-47.205	-5.715	-68.784	1.00	33.52	D	N
ATOM	17812	CA	LEU	D	89	-48.341	-6.583	-69.029	1.00	33.01	D	C
ATOM	17814	CB	LEU	D	89	-49.236	-6.736	-67.782	1.00	30.63	D	C
ATOM	17817	CG	LEU	D	89	-50.594	-7.460	-67.971	1.00	27.69	D	C
ATOM	17819	CD1	LEU	D	89	-50.563	-8.889	-67.528	1.00	20.55	D	C
ATOM	17823	CD2	LEU	D	89	-51.700	-6.729	-67.232	1.00	25.06	D	C
ATOM	17827	C	LEU	D	89	-49.139	-6.000	-70.168	1.00	32.58	D	C
ATOM	17828	O	LEU	D	89	-49.558	-4.857	-70.096	1.00	29.29	D	O

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ATOM	17830	N	GLN	D	90	-49.354	-6.819	-71.194	1.00	31.94	D	N
ATOM	17831	CA	GLN	D	90	-50.220	-6.480	-72.311	1.00	36.73	D	C
ATOM	17833	CB	GLN	D	90	-49.793	-7.176	-73.616	1.00	31.28	D	C
ATOM	17836	CG	GLN	D	90	-50.019	-8.669	-73.703	1.00	29.06	D	C
ATOM	17839	CD	GLN	D	90	-51.428	-9.090	-74.095	1.00	24.98	D	C
ATOM	17840	OE1	GLN	D	90	-52.190	-8.334	-74.702	1.00	26.11	D	O
ATOM	17841	NE2	GLN	D	90	-51.774	-10.317	-73.745	1.00	21.58	D	N
ATOM	17844	C	GLN	D	90	-51.654	-6.834	-71.950	1.00	38.76	D	C
ATOM	17845	O	GLN	D	90	-51.932	-7.922	-71.446	1.00	33.01	D	O
ATOM	17847	N	SER	D	91	-52.561	-5.896	-72.204	1.00	41.17	D	N
ATOM	17848	CA	SER	D	91	-53.978	-6.118	-71.958	1.00	38.70	D	C
ATOM	17850	CB	SER	D	91	-54.413	-5.404	-70.672	1.00	32.95	D	C
ATOM	17853	OG	SER	D	91	-54.149	-4.033	-70.731	1.00	28.88	D	O
ATOM	17855	C	SER	D	91	-54.826	-5.734	-73.171	1.00	38.54	D	C
ATOM	17856	O	SER	D	91	-55.880	-5.126	-73.048	1.00	39.53	D	O
ATOM	17858	N	ASP	D	92	-54.347	-6.135	-74.342	1.00	32.72	D	N
ATOM	17859	CA	ASP	D	92	-55.089	-5.998	-75.582	1.00	36.91	D	C
ATOM	17861	CB	ASP	D	92	-54.201	-6.433	-76.750	1.00	35.09	D	C
ATOM	17864	CG	ASP	D	92	-54.934	-6.422	-78.059	1.00	28.98	D	C
ATOM	17865	OD1	ASP	D	92	-54.958	-5.370	-78.719	1.00	28.13	D	O
ATOM	17866	OD2	ASP	D	92	-55.544	-7.448	-78.384	1.00	28.04	D	O
ATOM	17867	C	ASP	D	92	-56.366	-6.831	-75.579	1.00	35.48	D	C
ATOM	17868	O	ASP	D	92	-57.387	-6.408	-76.067	1.00	37.44	D	O
ATOM	17870	N	SER	D	93	-56.278	-8.023	-75.027	1.00	40.76	D	N
ATOM	17871	CA	SER	D	93	-57.373	-8.965	-75.006	1.00	37.36	D	C
ATOM	17873	CB	SER	D	93	-57.637	-9.530	-76.409	1.00	36.63	D	C
ATOM	17876	OG	SER	D	93	-56.416	-9.851	-77.070	1.00	34.50	D	O
ATOM	17878	C	SER	D	93	-56.996	-10.076	-74.034	1.00	36.66	D	C
ATOM	17879	O	SER	D	93	-55.848	-10.183	-73.624	1.00	35.06	D	O
ATOM	17881	N	LEU	D	94	-57.977	-10.900	-73.682	1.00	36.84	D	N
ATOM	17882	CA	LEU	D	94	-57.774	-12.011	-72.781	1.00	35.34	D	C
ATOM	17884	CB	LEU	D	94	-59.092	-12.376	-72.096	1.00	32.60	D	C
ATOM	17887	CG	LEU	D	94	-59.780	-11.257	-71.291	1.00	30.67	D	C
ATOM	17889	CD1	LEU	D	94	-61.289	-11.530	-71.090	1.00	21.35	D	C
ATOM	17893	CD2	LEU	D	94	-59.091	-11.016	-69.948	1.00	28.99	D	C
ATOM	17897	C	LEU	D	94	-57.217	-13.190	-73.589	1.00	36.56	D	C
ATOM	17898	O	LEU	D	94	-57.611	-13.392	-74.729	1.00	42.67	D	O
ATOM	17900	N	PRO	D	95	-56.265	-13.952	-73.018	1.00	34.71	D	N
ATOM	17901	CA	PRO	D	95	-55.605	-13.730	-71.736	1.00	33.38	D	C
ATOM	17903	CB	PRO	D	95	-54.955	-15.079	-71.455	1.00	30.17	D	C
ATOM	17906	CG	PRO	D	95	-54.650	-15.601	-72.772	1.00	30.63	D	C
ATOM	17909	CD	PRO	D	95	-55.773	-15.177	-73.667	1.00	30.19	D	C
ATOM	17912	C	PRO	D	95	-54.531	-12.631	-71.811	1.00	34.64	D	C
ATOM	17913	O	PRO	D	95	-53.859	-12.491	-72.836	1.00	32.89	D	O
ATOM	17914	N	TYR	D	96	-54.392	-11.856	-70.735	1.00	32.70	D	N
ATOM	17915	CA	TYR	D	96	-53.305	-10.903	-70.626	1.00	31.75	D	C
ATOM	17917	CB	TYR	D	96	-53.503	-9.971	-69.448	1.00	24.26	D	C
ATOM	17920	CG	TYR	D	96	-54.779	-9.143	-69.402	1.00	21.12	D	C
ATOM	17921	CD1	TYR	D	96	-55.599	-8.942	-70.530	1.00	20.34	D	C
ATOM	17923	CE1	TYR	D	96	-56.768	-8.124	-70.436	1.00	21.35	D	C
ATOM	17925	CZ	TYR	D	96	-57.086	-7.517	-69.200	1.00	23.00	D	C
ATOM	17926	OH	TYR	D	96	-58.197	-6.705	-69.008	1.00	16.83	D	O
ATOM	17928	CE2	TYR	D	96	-56.264	-7.720	-68.101	1.00	20.25	D	C
ATOM	17930	CD2	TYR	D	96	-55.131	-8.511	-68.209	1.00	18.13	D	C
ATOM	17932	C	TYR	D	96	-51.970	-11.642	-70.451	1.00	32.27	D	C
ATOM	17933	O	TYR	D	96	-51.941	-12.846	-70.125	1.00	33.17	D	O
ATOM	17935	N	THR	D	97	-50.867	-10.923	-70.667	1.00	31.46	D	N
ATOM	17936	CA	THR	D	97	-49.525	-11.533	-70.637	1.00	32.27	D	C
ATOM	17938	CB	THR	D	97	-48.998	-11.845	-72.075	1.00	30.08	D	C
ATOM	17940	OG1	THR	D	97	-50.069	-12.318	-72.895	1.00	30.94	D	O
ATOM	17942	CG2	THR	D	97	-47.830	-12.895	-72.037	1.00	27.91	D	C
ATOM	17946	C	THR	D	97	-48.480	-10.624	-70.016	1.00	33.38	D	C
ATOM	17947	O	THR	D	97	-48.275	-9.505	-70.461	1.00	33.71	D	O
ATOM	17949	N	PHE	D	98	-47.785	-11.146	-69.018	1.00	34.96	D	N
ATOM	17950	CA	PHE	D	98	-46.668	-10.468	-68.390	1.00	34.31	D	C
ATOM	17952	CB	PHE	D	98	-46.383	-11.075	-67.010	1.00	28.87	D	C
ATOM	17955	CG	PHE	D	98	-47.278	-10.576	-65.921	1.00	29.73	D	C
ATOM	17956	CD1	PHE	D	98	-47.133	-9.299	-65.420	1.00	29.49	D	C

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ATOM	17958	CE1	PHE	D	98	-47.932	-8.851	-64.394	1.00	28.57	D	C
ATOM	17960	CZ	PHE	D	98	-48.907	-9.682	-63.865	1.00	29.03	D	C
ATOM	17962	CE2	PHE	D	98	-49.052	-10.951	-64.351	1.00	28.72	D	C
ATOM	17964	CD2	PHE	D	98	-48.228	-11.403	-65.359	1.00	29.83	D	C
ATOM	17966	C	PHE	D	98	-45.389	-10.601	-69.218	1.00	35.66	D	C
ATOM	17967	O	PHE	D	98	-45.166	-11.628	-69.895	1.00	34.09	D	O
ATOM	17969	N	GLY	D	99	-44.541	-9.570	-69.116	1.00	35.28	D	N
ATOM	17970	CA	GLY	D	99	-43.143	-9.667	-69.487	1.00	34.03	D	C
ATOM	17973	C	GLY	D	99	-42.382	-10.526	-68.492	1.00	37.03	D	C
ATOM	17974	O	GLY	D	99	-42.886	-10.846	-67.411	1.00	35.75	D	O
ATOM	17976	N	GLN	D	100	-41.169	-10.908	-68.876	1.00	36.51	D	N
ATOM	17977	CA	GLN	D	100	-40.307	-11.783	-68.072	1.00	32.76	D	C
ATOM	17979	CB	GLN	D	100	-39.147	-12.289	-68.940	1.00	31.39	D	C
ATOM	17982	CG	GLN	D	100	-39.593	-13.169	-70.114	1.00	34.37	D	C
ATOM	17985	CD	GLN	D	100	-39.682	-12.449	-71.471	1.00	36.27	D	C
ATOM	17986	OE1	GLN	D	100	-40.168	-11.323	-71.581	1.00	28.09	D	O
ATOM	17987	NE2	GLN	D	100	-39.214	-13.129	-72.519	1.00	43.08	D	N
ATOM	17990	C	GLN	D	100	-39.760	-11.114	-66.803	1.00	34.65	D	C
ATOM	17991	O	GLN	D	100	-39.328	-11.791	-65.867	1.00	39.07	D	O
ATOM	17993	N	GLY	D	101	-39.802	-9.791	-66.771	1.00	34.98	D	N
ATOM	17994	CA	GLY	D	101	-39.353	-9.009	-65.619	1.00	33.87	D	C
ATOM	17997	C	GLY	D	101	-37.988	-8.377	-65.854	1.00	32.21	D	C
ATOM	17998	O	GLY	D	101	-37.188	-8.891	-66.641	1.00	32.54	D	O
ATOM	18000	N	THR	D	102	-37.737	-7.256	-65.184	1.00	32.75	D	N
ATOM	18001	CA	THR	D	102	-36.412	-6.627	-65.170	1.00	31.77	D	C
ATOM	18003	CB	THR	D	102	-36.327	-5.351	-66.068	1.00	33.86	D	C
ATOM	18005	OG1	THR	D	102	-36.593	-5.663	-67.451	1.00	29.07	D	O
ATOM	18007	CG2	THR	D	102	-34.936	-4.671	-65.943	1.00	32.97	D	C
ATOM	18011	C	THR	D	102	-36.054	-6.227	-63.746	1.00	32.02	D	C
ATOM	18012	O	THR	D	102	-36.702	-5.363	-63.158	1.00	25.82	D	O
ATOM	18014	N	LYS	D	103	-34.995	-6.842	-63.217	1.00	31.03	D	N
ATOM	18015	CA	LYS	D	103	-34.499	-6.551	-61.894	1.00	33.08	D	C
ATOM	18017	CB	LYS	D	103	-33.695	-7.744	-61.368	1.00	36.67	D	C
ATOM	18020	CG	LYS	D	103	-33.619	-7.783	-59.847	1.00	39.34	D	C
ATOM	18023	CD	LYS	D	103	-32.527	-8.675	-59.296	1.00	41.54	D	C
ATOM	18026	CE	LYS	D	103	-32.491	-8.588	-57.748	1.00	43.89	D	C
ATOM	18029	NZ	LYS	D	103	-31.550	-9.577	-57.114	1.00	42.75	D	N
ATOM	18033	C	LYS	D	103	-33.624	-5.299	-61.944	1.00	35.12	D	C
ATOM	18034	O	LYS	D	103	-32.657	-5.249	-62.700	1.00	36.75	D	O
ATOM	18036	N	VAL	D	104	-33.967	-4.295	-61.136	1.00	36.46	D	N
ATOM	18037	CA	VAL	D	104	-33.277	-3.024	-61.132	1.00	32.87	D	C
ATOM	18039	CB	VAL	D	104	-34.245	-1.859	-61.408	1.00	31.34	D	C
ATOM	18041	CG1	VAL	D	104	-33.612	-0.545	-61.003	1.00	30.67	D	C
ATOM	18045	CG2	VAL	D	104	-34.620	-1.821	-62.883	1.00	20.53	D	C
ATOM	18049	C	VAL	D	104	-32.564	-2.837	-59.802	1.00	39.68	D	C
ATOM	18050	O	VAL	D	104	-33.194	-2.840	-58.750	1.00	37.34	D	O
ATOM	18052	N	GLU	D	105	-31.240	-2.716	-59.862	1.00	41.34	D	N
ATOM	18053	CA	GLU	D	105	-30.411	-2.529	-58.678	1.00	45.28	D	C
ATOM	18055	CB	GLU	D	105	-29.322	-3.603	-58.615	1.00	50.44	D	C
ATOM	18058	CG	GLU	D	105	-29.835	-5.009	-58.870	1.00	55.09	D	C
ATOM	18061	CD	GLU	D	105	-28.871	-6.094	-58.380	1.00	54.73	D	C
ATOM	18062	OE1	GLU	D	105	-27.698	-6.104	-58.848	1.00	56.90	D	O
ATOM	18063	OE2	GLU	D	105	-29.293	-6.916	-57.520	1.00	51.30	D	O
ATOM	18064	C	GLU	D	105	-29.753	-1.152	-58.700	1.00	43.14	D	C
ATOM	18065	O	GLU	D	105	-29.573	-0.557	-59.763	1.00	37.69	D	O
ATOM	18067	N	ILE	D	106	-29.407	-0.657	-57.516	1.00	45.95	D	N
ATOM	18068	CA	ILE	D	106	-28.734	0.634	-57.372	1.00	48.69	D	C
ATOM	18070	CB	ILE	D	106	-29.322	1.447	-56.202	1.00	47.63	D	C
ATOM	18072	CG1	ILE	D	106	-30.695	2.016	-56.587	1.00	50.17	D	C
ATOM	18075	CD1	ILE	D	106	-30.645	3.279	-57.424	1.00	50.66	D	C
ATOM	18079	CG2	ILE	D	106	-28.368	2.543	-55.786	1.00	46.30	D	C
ATOM	18083	C	ILE	D	106	-27.226	0.473	-57.157	1.00	48.62	D	C
ATOM	18084	O	ILE	D	106	-26.786	-0.232	-56.247	1.00	44.17	D	O
ATOM	18086	N	LYS	D	107	-26.449	1.132	-58.015	1.00	50.60	D	N
ATOM	18087	CA	LYS	D	107	-25.018	1.283	-57.797	1.00	52.54	D	C
ATOM	18089	CB	LYS	D	107	-24.266	1.605	-59.091	1.00	54.87	D	C
ATOM	18092	CG	LYS	D	107	-23.287	0.537	-59.522	1.00	60.07	D	C
ATOM	18095	CD	LYS	D	107	-22.245	1.091	-60.485	1.00	62.78	D	C

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ATOM	18098	CE	LYS	D	107	-21.148	1.894	-59.765	1.00	65.59	D	C
ATOM	18101	NZ	LYS	D	107	-20.462	2.871	-60.680	1.00	61.80	D	N
ATOM	18105	C	LYS	D	107	-24.787	2.403	-56.813	1.00	50.49	D	C
ATOM	18106	O	LYS	D	107	-25.221	3.526	-57.027	1.00	49.64	D	O
ATOM	18108	N	ARG	D	108	-24.102	2.094	-55.727	1.00	49.37	D	N
ATOM	18109	CA	ARG	D	108	-23.777	3.101	-54.744	1.00	48.28	D	C
ATOM	18111	CB	ARG	D	108	-24.739	2.987	-53.549	1.00	44.17	D	C
ATOM	18114	CG	ARG	D	108	-24.816	1.605	-52.886	1.00	46.31	D	C
ATOM	18117	CD	ARG	D	108	-24.885	1.710	-51.352	1.00	46.78	D	C
ATOM	18120	NE	ARG	D	108	-23.745	2.484	-50.847	1.00	48.96	D	N
ATOM	18122	CZ	ARG	D	108	-23.669	3.109	-49.674	1.00	48.45	D	C
ATOM	18123	NH1	ARG	D	108	-24.671	3.090	-48.804	1.00	48.84	D	N
ATOM	18126	NH2	ARG	D	108	-22.560	3.771	-49.379	1.00	48.31	D	N
ATOM	18129	C	ARG	D	108	-22.290	3.003	-54.346	1.00	48.47	D	C
ATOM	18130	O	ARG	D	108	-21.537	2.171	-54.859	1.00	47.58	D	O
ATOM	18132	N	THR	D	109	-21.867	3.904	-53.478	1.00	48.75	D	N
ATOM	18133	CA	THR	D	109	-20.532	3.877	-52.910	1.00	48.78	D	C
ATOM	18135	CB	THR	D	109	-20.405	5.041	-51.909	1.00	53.11	D	C
ATOM	18137	OG1	THR	D	109	-19.901	6.194	-52.596	1.00	54.13	D	O
ATOM	18139	CG2	THR	D	109	-19.482	4.683	-50.755	1.00	61.93	D	C
ATOM	18143	C	THR	D	109	-20.264	2.581	-52.170	1.00	48.97	D	C
ATOM	18144	O	THR	D	109	-21.175	2.003	-51.593	1.00	52.57	D	O
ATOM	18146	N	VAL	D	110	-19.012	2.129	-52.169	1.00	49.80	D	N
ATOM	18147	CA	VAL	D	110	-18.607	0.933	-51.408	1.00	46.02	D	C
ATOM	18149	CB	VAL	D	110	-17.157	0.527	-51.754	1.00	47.49	D	C
ATOM	18151	CG1	VAL	D	110	-17.119	-0.032	-53.174	1.00	43.94	D	C
ATOM	18155	CG2	VAL	D	110	-16.591	-0.477	-50.746	1.00	47.26	D	C
ATOM	18159	C	VAL	D	110	-18.750	1.179	-49.918	1.00	42.35	D	C
ATOM	18160	O	VAL	D	110	-18.277	2.179	-49.422	1.00	41.48	D	O
ATOM	18162	N	ALA	D	111	-19.468	0.296	-49.225	1.00	45.68	D	N
ATOM	18163	CA	ALA	D	111	-19.663	0.399	-47.786	1.00	44.70	D	C
ATOM	18165	CB	ALA	D	111	-21.127	0.599	-47.459	1.00	32.24	D	C
ATOM	18169	C	ALA	D	111	-19.154	-0.895	-47.170	1.00	43.74	D	C
ATOM	18170	O	ALA	D	111	-19.479	-1.977	-47.657	1.00	42.08	D	O
ATOM	18172	N	ALA	D	112	-18.368	-0.786	-46.100	1.00	49.41	D	N
ATOM	18173	CA	ALA	D	112	-17.835	-1.974	-45.413	1.00	50.30	D	C
ATOM	18175	CB	ALA	D	112	-16.550	-1.628	-44.641	1.00	51.84	D	C
ATOM	18179	C	ALA	D	112	-18.902	-2.510	-44.465	1.00	49.43	D	C
ATOM	18180	O	ALA	D	112	-19.675	-1.740	-43.920	1.00	52.03	D	O
ATOM	18182	N	PRO	D	113	-18.959	-3.834	-44.279	1.00	49.18	D	N
ATOM	18183	CA	PRO	D	113	-19.959	-4.400	-43.387	1.00	48.41	D	C
ATOM	18185	CB	PRO	D	113	-19.947	-5.892	-43.753	1.00	48.78	D	C
ATOM	18188	CG	PRO	D	113	-18.611	-6.151	-44.238	1.00	48.96	D	C
ATOM	18191	CD	PRO	D	113	-18.119	-4.881	-44.890	1.00	49.88	D	C
ATOM	18194	C	PRO	D	113	-19.562	-4.226	-41.939	1.00	47.38	D	C
ATOM	18195	O	PRO	D	113	-18.385	-4.316	-41.620	1.00	45.70	D	O
ATOM	18196	N	SER	D	114	-20.547	-4.003	-41.075	1.00	46.93	D	N
ATOM	18197	CA	SER	D	114	-20.328	-3.989	-39.654	1.00	46.41	D	C
ATOM	18199	CB	SER	D	114	-21.238	-2.957	-38.988	1.00	52.60	D	C
ATOM	18202	OG	SER	D	114	-22.451	-3.535	-38.562	1.00	59.87	D	O
ATOM	18204	C	SER	D	114	-20.625	-5.418	-39.237	1.00	47.10	D	C
ATOM	18205	O	SER	D	114	-21.660	-5.957	-39.607	1.00	51.52	D	O
ATOM	18207	N	VAL	D	115	-19.707	-6.060	-38.518	1.00	47.05	D	N
ATOM	18208	CA	VAL	D	115	-19.800	-7.507	-38.302	1.00	44.95	D	C
ATOM	18210	CB	VAL	D	115	-18.518	-8.194	-38.727	1.00	46.17	D	C
ATOM	18212	CG1	VAL	D	115	-18.702	-9.728	-38.716	1.00	47.07	D	C
ATOM	18216	CG2	VAL	D	115	-18.120	-7.676	-40.068	1.00	38.56	D	C
ATOM	18220	C	VAL	D	115	-20.071	-7.872	-36.867	1.00	43.13	D	C
ATOM	18221	O	VAL	D	115	-19.444	-7.330	-35.965	1.00	43.68	D	O
ATOM	18223	N	PHE	D	116	-20.996	-8.807	-36.667	1.00	44.64	D	N
ATOM	18224	CA	PHE	D	116	-21.436	-9.221	-35.327	1.00	45.30	D	C
ATOM	18226	CB	PHE	D	116	-22.807	-8.641	-35.007	1.00	51.57	D	C
ATOM	18229	CG	PHE	D	116	-22.935	-7.166	-35.281	1.00	53.39	D	C
ATOM	18230	CD1	PHE	D	116	-22.229	-6.246	-34.526	1.00	56.67	D	C
ATOM	18232	CE1	PHE	D	116	-22.362	-4.881	-34.765	1.00	55.24	D	C
ATOM	18234	CZ	PHE	D	116	-23.220	-4.427	-35.750	1.00	53.16	D	C
ATOM	18236	CE2	PHE	D	116	-23.934	-5.334	-36.510	1.00	52.45	D	C
ATOM	18238	CD2	PHE	D	116	-23.787	-6.695	-36.278	1.00	54.45	D	C

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ATOM	18240	C	PHE	D	116	-21.520	-10.738	-35.217	1.00	44.71	D	C
ATOM	18241	O	PHE	D	116	-21.739	-11.441	-36.215	1.00	44.01	D	O
ATOM	18243	N	ILE	D	117	-21.341	-11.243	-34.002	1.00	43.17	D	N
ATOM	18244	CA	ILE	D	117	-21.350	-12.688	-33.760	1.00	44.64	D	C
ATOM	18246	CB	ILE	D	117	-19.911	-13.247	-33.512	1.00	49.99	D	C
ATOM	18248	CG1	ILE	D	117	-19.922	-14.788	-33.443	1.00	49.76	D	C
ATOM	18251	CD1	ILE	D	117	-18.608	-15.426	-33.893	1.00	51.14	D	C
ATOM	18255	CG2	ILE	D	117	-19.297	-12.629	-32.237	1.00	42.81	D	C
ATOM	18259	C	ILE	D	117	-22.249	-12.971	-32.573	1.00	42.52	D	C
ATOM	18260	O	ILE	D	117	-22.230	-12.227	-31.608	1.00	42.09	D	O
ATOM	18262	N	PHE	D	118	-23.047	-14.031	-32.672	1.00	41.68	D	N
ATOM	18263	CA	PHE	D	118	-23.944	-14.438	-31.595	1.00	42.95	D	C
ATOM	18265	CB	PHE	D	118	-25.411	-14.269	-31.972	1.00	45.61	D	C
ATOM	18268	CG	PHE	D	118	-25.798	-12.870	-32.353	1.00	43.69	D	C
ATOM	18269	CD1	PHE	D	118	-26.339	-12.019	-31.418	1.00	40.42	D	C
ATOM	18271	CE1	PHE	D	118	-26.713	-10.758	-31.748	1.00	40.90	D	C
ATOM	18273	CZ	PHE	D	118	-26.569	-10.319	-33.032	1.00	45.60	D	C
ATOM	18275	CE2	PHE	D	118	-26.042	-11.161	-33.992	1.00	46.95	D	C
ATOM	18277	CD2	PHE	D	118	-25.670	-12.436	-33.653	1.00	41.44	D	C
ATOM	18279	C	PHE	D	118	-23.746	-15.912	-31.256	1.00	47.23	D	C
ATOM	18280	O	PHE	D	118	-23.940	-16.773	-32.121	1.00	44.40	D	O
ATOM	18282	N	PRO	D	119	-23.334	-16.217	-30.008	1.00	48.90	D	N
ATOM	18283	CA	PRO	D	119	-23.277	-17.624	-29.607	1.00	47.56	D	C
ATOM	18285	CB	PRO	D	119	-22.695	-17.587	-28.182	1.00	48.79	D	C
ATOM	18288	CG	PRO	D	119	-22.681	-16.177	-27.765	1.00	48.20	D	C
ATOM	18291	CD	PRO	D	119	-22.810	-15.314	-28.968	1.00	50.04	D	C
ATOM	18294	C	PRO	D	119	-24.628	-18.299	-29.562	1.00	47.18	D	C
ATOM	18295	O	PRO	D	119	-25.655	-17.635	-29.538	1.00	50.01	D	O
ATOM	18296	N	PRO	D	120	-24.634	-19.634	-29.484	1.00	47.40	D	N
ATOM	18297	CA	PRO	D	120	-25.898	-20.298	-29.229	1.00	49.07	D	C
ATOM	18299	CB	PRO	D	120	-25.516	-21.778	-29.117	1.00	50.47	D	C
ATOM	18302	CG	PRO	D	120	-24.184	-21.900	-29.718	1.00	49.75	D	C
ATOM	18305	CD	PRO	D	120	-23.517	-20.578	-29.597	1.00	44.98	D	C
ATOM	18308	C	PRO	D	120	-26.508	-19.829	-27.912	1.00	52.79	D	C
ATOM	18309	O	PRO	D	120	-25.783	-19.536	-26.962	1.00	54.40	D	O
ATOM	18310	N	SER	D	121	-27.832	-19.762	-27.876	1.00	54.95	D	N
ATOM	18311	CA	SER	D	121	-28.583	-19.459	-26.662	1.00	52.08	D	C
ATOM	18313	CB	SER	D	121	-30.037	-19.101	-27.020	1.00	52.06	D	C
ATOM	18316	OG	SER	D	121	-30.788	-20.264	-27.399	1.00	51.54	D	O
ATOM	18318	C	SER	D	121	-28.569	-20.675	-25.734	1.00	54.84	D	C
ATOM	18319	O	SER	D	121	-28.492	-21.828	-26.197	1.00	55.38	D	O
ATOM	18321	N	ASP	D	122	-28.653	-20.412	-24.430	1.00	55.31	D	N
ATOM	18322	CA	ASP	D	122	-28.676	-21.476	-23.431	1.00	57.41	D	C
ATOM	18324	CB	ASP	D	122	-28.797	-20.899	-22.005	1.00	64.12	D	C
ATOM	18327	CG	ASP	D	122	-27.613	-20.013	-21.611	1.00	68.20	D	C
ATOM	18328	OD1	ASP	D	122	-26.453	-20.407	-21.863	1.00	67.83	D	O
ATOM	18329	OD2	ASP	D	122	-27.850	-18.917	-21.049	1.00	71.94	D	O
ATOM	18330	C	ASP	D	122	-29.840	-22.412	-23.690	1.00	55.89	D	C
ATOM	18331	O	ASP	D	122	-29.729	-23.624	-23.490	1.00	56.44	D	O
ATOM	18333	N	GLU	D	123	-30.962	-21.842	-24.119	1.00	55.62	D	N
ATOM	18334	CA	GLU	D	123	-32.163	-22.639	-24.365	1.00	58.19	D	C
ATOM	18336	CB	GLU	D	123	-33.426	-21.778	-24.324	1.00	62.28	D	C
ATOM	18339	CG	GLU	D	123	-33.600	-20.844	-25.453	1.00	64.70	D	C
ATOM	18342	CD	GLU	D	123	-34.523	-19.708	-25.097	1.00	66.14	D	C
ATOM	18343	OE1	GLU	D	123	-34.026	-18.682	-24.558	1.00	65.09	D	O
ATOM	18344	OE2	GLU	D	123	-35.738	-19.850	-25.372	1.00	68.76	D	O
ATOM	18345	C	GLU	D	123	-32.103	-23.514	-25.624	1.00	55.92	D	C
ATOM	18346	O	GLU	D	123	-32.788	-24.541	-25.681	1.00	57.81	D	O
ATOM	18348	N	GLN	D	124	-31.273	-23.151	-26.607	1.00	53.51	D	N
ATOM	18349	CA	GLN	D	124	-31.107	-24.016	-27.783	1.00	53.71	D	C
ATOM	18351	CB	GLN	D	124	-30.524	-23.284	-28.991	1.00	53.16	D	C
ATOM	18354	CG	GLN	D	124	-30.644	-24.108	-30.262	1.00	48.06	D	C
ATOM	18357	CD	GLN	D	124	-29.780	-23.623	-31.405	1.00	48.64	D	C
ATOM	18358	OE1	GLN	D	124	-29.041	-22.624	-31.292	1.00	46.14	D	O
ATOM	18359	NE2	GLN	D	124	-29.850	-24.351	-32.529	1.00	42.72	D	N
ATOM	18362	C	GLN	D	124	-30.231	-25.201	-27.456	1.00	54.06	D	C
ATOM	18363	O	GLN	D	124	-30.529	-26.316	-27.879	1.00	54.95	D	O
ATOM	18365	N	LEU	D	125	-29.141	-24.956	-26.727	1.00	59.84	D	N

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ATOM	18366	CA	LEU	D	125	-28.277	-26.037	-26.226	1.00	61.75	D	C
ATOM	18368	CB	LEU	D	125	-27.276	-25.478	-25.222	1.00	62.46	D	C
ATOM	18371	CG	LEU	D	125	-26.009	-24.805	-25.753	1.00	64.31	D	C
ATOM	18373	CD1	LEU	D	125	-25.866	-24.893	-27.275	1.00	63.47	D	C
ATOM	18377	CD2	LEU	D	125	-25.958	-23.360	-25.256	1.00	61.72	D	C
ATOM	18381	C	LEU	D	125	-29.097	-27.150	-25.568	1.00	62.59	D	C
ATOM	18382	O	LEU	D	125	-28.865	-28.325	-25.823	1.00	61.70	D	O
ATOM	18384	N	LYS	D	126	-30.062	-26.771	-24.736	1.00	67.78	D	N
ATOM	18385	CA	LYS	D	126	-30.997	-27.730	-24.118	1.00	72.70	D	C
ATOM	18387	CB	LYS	D	126	-32.175	-26.997	-23.449	1.00	77.92	D	C
ATOM	18390	CG	LYS	D	126	-32.220	-27.117	-21.924	1.00	80.68	D	C
ATOM	18393	CD	LYS	D	126	-33.156	-26.084	-21.280	1.00	81.68	D	C
ATOM	18396	CE	LYS	D	126	-32.459	-24.729	-21.062	1.00	85.53	D	C
ATOM	18399	NZ	LYS	D	126	-31.336	-24.777	-20.062	1.00	85.48	D	N
ATOM	18403	C	LYS	D	126	-31.537	-28.755	-25.124	1.00	74.92	D	C
ATOM	18404	O	LYS	D	126	-31.523	-29.959	-24.864	1.00	75.64	D	O
ATOM	18406	N	SER	D	127	-31.988	-28.261	-26.278	1.00	75.06	D	N
ATOM	18407	CA	SER	D	127	-32.573	-29.093	-27.336	1.00	70.35	D	C
ATOM	18409	CB	SER	D	127	-33.183	-28.194	-28.428	1.00	72.55	D	C
ATOM	18412	OG	SER	D	127	-33.792	-27.027	-27.894	1.00	71.46	D	O
ATOM	18414	C	SER	D	127	-31.582	-30.066	-28.010	1.00	69.14	D	C
ATOM	18415	O	SER	D	127	-32.003	-30.979	-28.718	1.00	68.81	D	O
ATOM	18417	N	GLY	D	128	-30.280	-29.854	-27.829	1.00	67.21	D	N
ATOM	18418	CA	GLY	D	128	-29.263	-30.745	-28.383	1.00	65.51	D	C
ATOM	18421	C	GLY	D	128	-28.547	-30.227	-29.627	1.00	66.52	D	C
ATOM	18422	O	GLY	D	128	-27.847	-31.000	-30.314	1.00	63.87	D	O
ATOM	18424	N	THR	D	129	-28.686	-28.930	-29.919	1.00	66.07	D	N
ATOM	18425	CA	THR	D	129	-28.019	-28.341	-31.089	1.00	62.22	D	C
ATOM	18427	CB	THR	D	129	-28.942	-28.387	-32.324	1.00	65.78	D	C
ATOM	18429	OG1	THR	D	129	-28.163	-28.160	-33.503	1.00	66.93	D	O
ATOM	18431	CG2	THR	D	129	-30.062	-27.336	-32.220	1.00	68.68	D	C
ATOM	18435	C	THR	D	129	-27.514	-26.908	-30.816	1.00	56.03	D	C
ATOM	18436	O	THR	D	129	-28.041	-26.224	-29.945	1.00	54.82	D	O
ATOM	18438	N	ALA	D	130	-26.474	-26.485	-31.540	1.00	53.04	D	N
ATOM	18439	CA	ALA	D	130	-25.919	-25.121	-31.421	1.00	50.06	D	C
ATOM	18441	CB	ALA	D	130	-24.541	-25.140	-30.790	1.00	47.66	D	C
ATOM	18445	C	ALA	D	130	-25.828	-24.416	-32.769	1.00	48.89	D	C
ATOM	18446	O	ALA	D	130	-25.081	-24.853	-33.647	1.00	50.81	D	O
ATOM	18448	N	SER	D	131	-26.574	-23.317	-32.921	1.00	47.18	D	N
ATOM	18449	CA	SER	D	131	-26.402	-22.410	-34.064	1.00	44.34	D	C
ATOM	18451	CB	SER	D	131	-27.751	-22.025	-34.701	1.00	43.12	D	C
ATOM	18454	OG	SER	D	131	-28.591	-23.163	-34.940	1.00	40.64	D	O
ATOM	18456	C	SER	D	131	-25.603	-21.159	-33.648	1.00	38.56	D	C
ATOM	18457	O	SER	D	131	-25.992	-20.429	-32.749	1.00	40.05	D	O
ATOM	18459	N	VAL	D	132	-24.468	-20.943	-34.296	1.00	39.66	D	N
ATOM	18460	CA	VAL	D	132	-23.684	-19.717	-34.138	1.00	41.65	D	C
ATOM	18462	CB	VAL	D	132	-22.184	-20.018	-34.032	1.00	43.51	D	C
ATOM	18464	CG1	VAL	D	132	-21.472	-18.849	-33.387	1.00	41.74	D	C
ATOM	18468	CG2	VAL	D	132	-21.953	-21.300	-33.245	1.00	39.53	D	C
ATOM	18472	C	VAL	D	132	-23.954	-18.808	-35.355	1.00	43.34	D	C
ATOM	18473	O	VAL	D	132	-23.757	-19.223	-36.495	1.00	38.74	D	O
ATOM	18475	N	VAL	D	133	-24.427	-17.586	-35.106	1.00	43.53	D	N
ATOM	18476	CA	VAL	D	133	-24.842	-16.683	-36.172	1.00	41.20	D	C
ATOM	18478	CB	VAL	D	133	-26.276	-16.117	-35.905	1.00	42.10	D	C
ATOM	18480	CG1	VAL	D	133	-26.630	-14.981	-36.875	1.00	34.42	D	C
ATOM	18484	CG2	VAL	D	133	-27.351	-17.243	-35.979	1.00	40.63	D	C
ATOM	18488	C	VAL	D	133	-23.823	-15.549	-36.346	1.00	44.08	D	C
ATOM	18489	O	VAL	D	133	-23.421	-14.892	-35.373	1.00	41.37	D	O
ATOM	18491	N	CYS	D	134	-23.404	-15.334	-37.590	1.00	46.73	D	N
ATOM	18492	CA	CYS	D	134	-22.563	-14.197	-37.955	1.00	43.71	D	C
ATOM	18494	CB	CYS	D	134	-21.352	-14.687	-38.731	1.00	44.38	D	C
ATOM	18497	SG	CYS	D	134	-20.072	-13.455	-38.867	1.00	55.55	D	S
ATOM	18499	C	CYS	D	134	-23.377	-13.200	-38.803	1.00	42.93	D	C
ATOM	18500	O	CYS	D	134	-23.896	-13.558	-39.852	1.00	41.41	D	O
ATOM	18502	N	LEU	D	135	-23.491	-11.962	-38.337	1.00	40.84	D	N
ATOM	18503	CA	LEU	D	135	-24.225	-10.945	-39.041	1.00	40.98	D	C
ATOM	18505	CB	LEU	D	135	-25.187	-10.232	-38.087	1.00	44.17	D	C
ATOM	18508	CG	LEU	D	135	-26.031	-9.075	-38.641	1.00	42.85	D	C

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ATOM	18510	CD1	LEU	D	135	-26.989	-9.570	-39.752	1.00	41.49	D	C
ATOM	18514	CD2	LEU	D	135	-26.799	-8.362	-37.518	1.00	43.06	D	C
ATOM	18518	C	LEU	D	135	-23.262	-9.948	-39.679	1.00	43.79	D	C
ATOM	18519	O	LEU	D	135	-22.476	-9.326	-38.983	1.00	41.25	D	O
ATOM	18521	N	LEU	D	136	-23.344	-9.826	-41.012	1.00	45.29	D	N
ATOM	18522	CA	LEU	D	136	-22.710	-8.758	-41.773	1.00	40.38	D	C
ATOM	18524	CB	LEU	D	136	-22.117	-9.311	-43.072	1.00	36.77	D	C
ATOM	18527	CG	LEU	D	136	-20.806	-10.113	-43.047	1.00	40.06	D	C
ATOM	18529	CD1	LEU	D	136	-20.878	-11.399	-42.268	1.00	39.49	D	C
ATOM	18533	CD2	LEU	D	136	-20.367	-10.417	-44.494	1.00	40.98	D	C
ATOM	18537	C	LEU	D	136	-23.771	-7.725	-42.114	1.00	42.80	D	C
ATOM	18538	O	LEU	D	136	-24.605	-7.964	-42.980	1.00	44.75	D	O
ATOM	18540	N	ASN	D	137	-23.720	-6.561	-41.484	1.00	43.51	D	N
ATOM	18541	CA	ASN	D	137	-24.801	-5.588	-41.585	1.00	41.88	D	C
ATOM	18543	CB	ASN	D	137	-25.182	-5.126	-40.176	1.00	47.84	D	C
ATOM	18546	CG	ASN	D	137	-26.648	-4.704	-40.052	1.00	51.40	D	C
ATOM	18547	OD1	ASN	D	137	-27.550	-5.363	-40.562	1.00	51.20	D	O
ATOM	18548	ND2	ASN	D	137	-26.882	-3.616	-39.329	1.00	56.40	D	N
ATOM	18551	C	ASN	D	137	-24.480	-4.372	-42.475	1.00	43.45	D	C
ATOM	18552	O	ASN	D	137	-23.418	-3.773	-42.372	1.00	43.05	D	O
ATOM	18554	N	ASN	D	138	-25.420	-4.025	-43.354	1.00	45.14	D	N
ATOM	18555	CA	ASN	D	138	-25.376	-2.794	-44.161	1.00	43.22	D	C
ATOM	18557	CB	ASN	D	138	-25.681	-1.574	-43.286	1.00	48.14	D	C
ATOM	18560	CG	ASN	D	138	-27.124	-1.544	-42.820	1.00	52.82	D	C
ATOM	18561	OD1	ASN	D	138	-27.667	-2.552	-42.370	1.00	54.37	D	O
ATOM	18562	ND2	ASN	D	138	-27.761	-0.387	-42.955	1.00	56.21	D	N
ATOM	18565	C	ASN	D	138	-24.104	-2.565	-44.987	1.00	42.34	D	C
ATOM	18566	O	ASN	D	138	-23.429	-1.561	-44.813	1.00	43.45	D	O
ATOM	18568	N	PHE	D	139	-23.816	-3.488	-45.908	1.00	40.13	D	N
ATOM	18569	CA	PHE	D	139	-22.653	-3.388	-46.810	1.00	41.60	D	C
ATOM	18571	CB	PHE	D	139	-21.668	-4.566	-46.578	1.00	39.86	D	C
ATOM	18574	CG	PHE	D	139	-22.255	-5.921	-46.871	1.00	39.31	D	C
ATOM	18575	CD1	PHE	D	139	-22.184	-6.459	-48.151	1.00	41.64	D	C
ATOM	18577	CE1	PHE	D	139	-22.759	-7.695	-48.444	1.00	40.93	D	C
ATOM	18579	CZ	PHE	D	139	-23.393	-8.412	-47.445	1.00	38.97	D	C
ATOM	18581	CE2	PHE	D	139	-23.472	-7.887	-46.171	1.00	40.10	D	C
ATOM	18583	CD2	PHE	D	139	-22.910	-6.644	-45.886	1.00	39.21	D	C
ATOM	18585	C	PHE	D	139	-23.047	-3.296	-48.308	1.00	42.78	D	C
ATOM	18586	O	PHE	D	139	-24.157	-3.678	-48.709	1.00	42.60	D	O
ATOM	18588	N	TYR	D	140	-22.119	-2.767	-49.111	1.00	44.31	D	N
ATOM	18589	CA	TYR	D	140	-22.228	-2.727	-50.572	1.00	41.48	D	C
ATOM	18591	CB	TYR	D	140	-22.944	-1.452	-51.067	1.00	46.96	D	C
ATOM	18594	CG	TYR	D	140	-23.182	-1.492	-52.574	1.00	47.48	D	C
ATOM	18595	CD1	TYR	D	140	-24.348	-2.042	-53.094	1.00	45.73	D	C
ATOM	18597	CE1	TYR	D	140	-24.562	-2.126	-54.452	1.00	46.82	D	C
ATOM	18599	CZ	TYR	D	140	-23.597	-1.685	-55.331	1.00	48.00	D	C
ATOM	18600	OH	TYR	D	140	-23.833	-1.786	-56.678	1.00	44.85	D	O
ATOM	18602	CE2	TYR	D	140	-22.410	-1.143	-54.853	1.00	49.95	D	C
ATOM	18604	CD2	TYR	D	140	-22.210	-1.048	-53.473	1.00	49.47	D	C
ATOM	18606	C	TYR	D	140	-20.808	-2.770	-51.149	1.00	40.36	D	C
ATOM	18607	O	TYR	D	140	-19.950	-2.040	-50.700	1.00	42.57	D	O
ATOM	18609	N	PRO	D	141	-20.559	-3.583	-52.181	1.00	44.53	D	N
ATOM	18610	CA	PRO	D	141	-21.454	-4.444	-52.977	1.00	47.71	D	C
ATOM	18612	CB	PRO	D	141	-20.633	-4.700	-54.260	1.00	48.83	D	C
ATOM	18615	CG	PRO	D	141	-19.224	-4.647	-53.819	1.00	47.07	D	C
ATOM	18618	CD	PRO	D	141	-19.175	-3.628	-52.691	1.00	47.42	D	C
ATOM	18621	C	PRO	D	141	-21.861	-5.784	-52.332	1.00	45.07	D	C
ATOM	18622	O	PRO	D	141	-21.411	-6.119	-51.241	1.00	45.77	D	O
ATOM	18623	N	ARG	D	142	-22.712	-6.515	-53.047	1.00	49.42	D	N
ATOM	18624	CA	ARG	D	142	-23.379	-7.746	-52.597	1.00	50.28	D	C
ATOM	18626	CB	ARG	D	142	-24.373	-8.167	-53.715	1.00	56.97	D	C
ATOM	18629	CG	ARG	D	142	-24.939	-9.597	-53.755	1.00	59.47	D	C
ATOM	18632	CD	ARG	D	142	-26.047	-9.829	-52.742	1.00	65.69	D	C
ATOM	18635	NE	ARG	D	142	-26.970	-10.899	-53.149	1.00	68.78	D	N
ATOM	18637	CZ	ARG	D	142	-26.727	-12.212	-53.054	1.00	72.51	D	C
ATOM	18638	NH1	ARG	D	142	-25.568	-12.664	-52.573	1.00	73.78	D	N
ATOM	18641	NH2	ARG	D	142	-27.651	-13.088	-53.450	1.00	70.41	D	N
ATOM	18644	C	ARG	D	142	-22.389	-8.867	-52.286	1.00	50.69	D	C

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ATOM	18645	O	ARG	D	142	-22.636	-9.712	-51.433	1.00	50.73	D	O
ATOM	18647	N	GLU	D	143	-21.268	-8.876	-52.988	1.00	52.06	D	N
ATOM	18648	CA	GLU	D	143	-20.314	-9.975	-52.898	1.00	50.85	D	C
ATOM	18650	CB	GLU	D	143	-19.337	-9.949	-54.081	1.00	57.73	D	C
ATOM	18653	CG	GLU	D	143	-20.005	-9.965	-55.479	1.00	61.88	D	C
ATOM	18656	CD	GLU	D	143	-20.471	-8.583	-55.969	1.00	62.73	D	C
ATOM	18657	OE1	GLU	D	143	-19.688	-7.601	-55.900	1.00	63.86	D	O
ATOM	18658	OE2	GLU	D	143	-21.622	-8.497	-56.442	1.00	62.25	D	O
ATOM	18659	C	GLU	D	143	-19.529	-9.875	-51.604	1.00	48.88	D	C
ATOM	18660	O	GLU	D	143	-18.828	-8.878	-51.382	1.00	47.99	D	O
ATOM	18662	N	ALA	D	144	-19.671	-10.903	-50.763	1.00	45.40	D	N
ATOM	18663	CA	ALA	D	144	-18.956	-11.025	-49.483	1.00	46.71	D	C
ATOM	18665	CB	ALA	D	144	-19.837	-10.551	-48.306	1.00	37.77	D	C
ATOM	18669	C	ALA	D	144	-18.511	-12.488	-49.272	1.00	45.16	D	C
ATOM	18670	O	ALA	D	144	-19.118	-13.406	-49.799	1.00	46.90	D	O
ATOM	18672	N	LYS	D	145	-17.443	-12.691	-48.507	1.00	49.41	D	N
ATOM	18673	CA	LYS	D	145	-16.943	-14.041	-48.187	1.00	51.18	D	C
ATOM	18675	CB	LYS	D	145	-15.498	-14.176	-48.691	1.00	57.21	D	C
ATOM	18678	CG	LYS	D	145	-15.133	-15.510	-49.355	1.00	62.87	D	C
ATOM	18681	CD	LYS	D	145	-14.411	-16.491	-48.395	1.00	63.09	D	C
ATOM	18684	CE	LYS	D	145	-13.286	-17.248	-49.098	1.00	61.79	D	C
ATOM	18687	NZ	LYS	D	145	-12.479	-18.082	-48.156	1.00	64.44	D	N
ATOM	18691	C	LYS	D	145	-16.975	-14.222	-46.675	1.00	47.70	D	C
ATOM	18692	O	LYS	D	145	-16.409	-13.416	-45.956	1.00	43.19	D	O
ATOM	18694	N	VAL	D	146	-17.658	-15.251	-46.188	1.00	51.30	D	N
ATOM	18695	CA	VAL	D	146	-17.648	-15.560	-44.764	1.00	52.74	D	C
ATOM	18697	CB	VAL	D	146	-19.064	-15.526	-44.184	1.00	53.80	D	C
ATOM	18699	CG1	VAL	D	146	-19.071	-16.005	-42.735	1.00	51.44	D	C
ATOM	18703	CG2	VAL	D	146	-19.634	-14.106	-44.300	1.00	53.70	D	C
ATOM	18707	C	VAL	D	146	-16.983	-16.915	-44.567	1.00	53.07	D	C
ATOM	18708	O	VAL	D	146	-17.305	-17.876	-45.261	1.00	55.41	D	O
ATOM	18710	N	GLN	D	147	-16.014	-16.974	-43.661	1.00	55.53	D	N
ATOM	18711	CA	GLN	D	147	-15.268	-18.212	-43.396	1.00	56.67	D	C
ATOM	18713	CB	GLN	D	147	-13.817	-18.102	-43.900	1.00	64.74	D	C
ATOM	18716	CG	GLN	D	147	-12.950	-19.384	-43.735	1.00	67.54	D	C
ATOM	18719	CD	GLN	D	147	-13.414	-20.569	-44.600	1.00	73.92	D	C
ATOM	18720	OE1	GLN	D	147	-13.352	-20.521	-45.844	1.00	74.05	D	O
ATOM	18721	NE2	GLN	D	147	-13.872	-21.643	-43.938	1.00	72.53	D	N
ATOM	18724	C	GLN	D	147	-15.297	-18.464	-41.901	1.00	55.49	D	C
ATOM	18725	O	GLN	D	147	-14.991	-17.563	-41.112	1.00	53.56	D	O
ATOM	18727	N	TRP	D	148	-15.692	-19.684	-41.519	1.00	53.63	D	N
ATOM	18728	CA	TRP	D	148	-15.818	-20.032	-40.109	1.00	52.80	D	C
ATOM	18730	CB	TRP	D	148	-17.052	-20.888	-39.875	1.00	48.18	D	C
ATOM	18733	CG	TRP	D	148	-18.302	-20.103	-39.801	1.00	47.98	D	C
ATOM	18734	CD1	TRP	D	148	-19.218	-19.910	-40.803	1.00	46.02	D	C
ATOM	18736	NE1	TRP	D	148	-20.243	-19.143	-40.356	1.00	43.61	D	N
ATOM	18738	CE2	TRP	D	148	-20.024	-18.813	-39.048	1.00	45.62	D	C
ATOM	18739	CD2	TRP	D	148	-18.802	-19.415	-38.663	1.00	45.98	D	C
ATOM	18740	CE3	TRP	D	148	-18.342	-19.238	-37.357	1.00	45.11	D	C
ATOM	18742	CZ3	TRP	D	148	-19.121	-18.485	-36.478	1.00	47.04	D	C
ATOM	18744	CH2	TRP	D	148	-20.334	-17.902	-36.896	1.00	46.95	D	C
ATOM	18746	CZ2	TRP	D	148	-20.802	-18.061	-38.168	1.00	45.51	D	C
ATOM	18748	C	TRP	D	148	-14.589	-20.776	-39.619	1.00	50.48	D	C
ATOM	18749	O	TRP	D	148	-14.020	-21.585	-40.339	1.00	48.22	D	O
ATOM	18751	N	LYS	D	149	-14.202	-20.499	-38.379	1.00	53.84	D	N
ATOM	18752	CA	LYS	D	149	-13.105	-21.204	-37.732	1.00	56.32	D	C
ATOM	18754	CB	LYS	D	149	-11.838	-20.337	-37.753	1.00	60.90	D	C
ATOM	18757	CG	LYS	D	149	-11.353	-20.055	-39.189	1.00	62.88	D	C
ATOM	18760	CD	LYS	D	149	-9.906	-19.550	-39.281	1.00	63.82	D	C
ATOM	18763	CE	LYS	D	149	-9.805	-18.067	-39.674	1.00	68.35	D	C
ATOM	18766	NZ	LYS	D	149	-8.661	-17.812	-40.616	1.00	66.35	D	N
ATOM	18770	C	LYS	D	149	-13.509	-21.604	-36.312	1.00	54.28	D	C
ATOM	18771	O	LYS	D	149	-14.011	-20.781	-35.532	1.00	52.00	D	O
ATOM	18773	N	VAL	D	150	-13.343	-22.888	-36.010	1.00	54.95	D	N
ATOM	18774	CA	VAL	D	150	-13.563	-23.428	-34.652	1.00	55.83	D	C
ATOM	18776	CB	VAL	D	150	-14.598	-24.606	-34.618	1.00	54.86	D	C
ATOM	18778	CG1	VAL	D	150	-14.974	-24.951	-33.172	1.00	46.52	D	C
ATOM	18782	CG2	VAL	D	150	-15.839	-24.264	-35.445	1.00	53.42	D	C

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ATOM	18786	C	VAL	D	150	-12.203	-23.904	-34.139	1.00	55.57	D	C
ATOM	18787	O	VAL	D	150	-11.554	-24.753	-34.779	1.00	54.79	D	O
ATOM	18789	N	ASP	D	151	-11.780	-23.333	-33.008	1.00	57.22	D	N
ATOM	18790	CA	ASP	D	151	-10.409	-23.459	-32.510	1.00	58.24	D	C
ATOM	18792	CB	ASP	D	151	-10.261	-24.754	-31.685	1.00	58.39	D	C
ATOM	18795	CG	ASP	D	151	-10.844	-24.615	-30.277	1.00	58.50	D	C
ATOM	18796	OD1	ASP	D	151	-10.806	-23.505	-29.723	1.00	55.69	D	O
ATOM	18797	OD2	ASP	D	151	-11.342	-25.608	-29.715	1.00	60.39	D	O
ATOM	18798	C	ASP	D	151	-9.376	-23.337	-33.652	1.00	57.72	D	C
ATOM	18799	O	ASP	D	151	-8.420	-24.110	-33.743	1.00	57.00	D	O
ATOM	18801	N	ASN	D	152	-9.595	-22.347	-34.514	1.00	58.08	D	N
ATOM	18802	CA	ASN	D	152	-8.743	-22.069	-35.684	1.00	59.47	D	C
ATOM	18804	CB	ASN	D	152	-7.334	-21.656	-35.253	1.00	64.36	D	C
ATOM	18807	CG	ASN	D	152	-7.304	-20.272	-34.654	1.00	69.46	D	C
ATOM	18808	OD1	ASN	D	152	-7.246	-19.282	-35.377	1.00	75.92	D	O
ATOM	18809	ND2	ASN	D	152	-7.350	-20.192	-33.325	1.00	69.67	D	N
ATOM	18812	C	ASN	D	152	-8.689	-23.156	-36.772	1.00	59.21	D	C
ATOM	18813	O	ASN	D	152	-7.855	-23.085	-37.684	1.00	60.62	D	O
ATOM	18815	N	ALA	D	153	-9.600	-24.126	-36.699	1.00	58.73	D	N
ATOM	18816	CA	ALA	D	153	-9.778	-25.115	-37.762	1.00	59.76	D	C
ATOM	18818	CB	ALA	D	153	-10.150	-26.478	-37.164	1.00	59.10	D	C
ATOM	18822	C	ALA	D	153	-10.869	-24.644	-38.736	1.00	60.84	D	C
ATOM	18823	O	ALA	D	153	-12.047	-24.545	-38.373	1.00	61.02	D	O
ATOM	18825	N	LEU	D	154	-10.466	-24.360	-39.967	1.00	57.81	D	N
ATOM	18826	CA	LEU	D	154	-11.378	-23.861	-40.996	1.00	57.44	D	C
ATOM	18828	CB	LEU	D	154	-10.613	-23.599	-42.302	1.00	56.66	D	C
ATOM	18831	CG	LEU	D	154	-9.761	-22.330	-42.347	1.00	61.68	D	C
ATOM	18833	CD1	LEU	D	154	-8.809	-22.210	-41.166	1.00	65.30	D	C
ATOM	18837	CD2	LEU	D	154	-8.978	-22.288	-43.636	1.00	61.70	D	C
ATOM	18841	C	LEU	D	154	-12.505	-24.860	-41.247	1.00	58.16	D	C
ATOM	18842	O	LEU	D	154	-12.250	-26.067	-41.409	1.00	55.49	D	O
ATOM	18844	N	GLN	D	155	-13.741	-24.352	-41.277	1.00	54.65	D	N
ATOM	18845	CA	GLN	D	155	-14.906	-25.214	-41.415	1.00	50.14	D	C
ATOM	18847	CB	GLN	D	155	-16.046	-24.733	-40.523	1.00	51.74	D	C
ATOM	18850	CG	GLN	D	155	-15.693	-24.547	-39.048	1.00	51.82	D	C
ATOM	18853	CD	GLN	D	155	-15.400	-25.858	-38.325	1.00	50.83	D	C
ATOM	18854	OE1	GLN	D	155	-16.174	-26.818	-38.399	1.00	41.87	D	O
ATOM	18855	NE2	GLN	D	155	-14.285	-25.891	-37.601	1.00	47.16	D	N
ATOM	18858	C	GLN	D	155	-15.355	-25.251	-42.868	1.00	48.57	D	C
ATOM	18859	O	GLN	D	155	-15.130	-24.309	-43.629	1.00	53.52	D	O
ATOM	18861	N	SER	D	156	-15.975	-26.357	-43.258	1.00	48.45	D	N
ATOM	18862	CA	SER	D	156	-16.676	-26.422	-44.531	1.00	51.38	D	C
ATOM	18864	CB	SER	D	156	-15.746	-26.913	-45.652	1.00	58.09	D	C
ATOM	18867	OG	SER	D	156	-15.795	-28.326	-45.783	1.00	57.14	D	O
ATOM	18869	C	SER	D	156	-17.828	-27.383	-44.376	1.00	48.54	D	C
ATOM	18870	O	SER	D	156	-17.717	-28.367	-43.634	1.00	48.71	D	O
ATOM	18872	N	GLY	D	157	-18.936	-27.088	-45.052	1.00	47.45	D	N
ATOM	18873	CA	GLY	D	157	-20.062	-28.011	-45.103	1.00	47.24	D	C
ATOM	18876	C	GLY	D	157	-21.076	-27.909	-43.984	1.00	46.48	D	C
ATOM	18877	O	GLY	D	157	-22.109	-28.564	-44.067	1.00	48.81	D	O
ATOM	18879	N	ASN	D	158	-20.796	-27.094	-42.963	1.00	45.16	D	N
ATOM	18880	CA	ASN	D	158	-21.683	-26.926	-41.806	1.00	46.36	D	C
ATOM	18882	CB	ASN	D	158	-20.993	-27.464	-40.552	1.00	44.54	D	C
ATOM	18885	CG	ASN	D	158	-19.619	-26.900	-40.358	1.00	46.00	D	C
ATOM	18886	OD1	ASN	D	158	-19.200	-25.973	-41.062	1.00	47.38	D	O
ATOM	18887	ND2	ASN	D	158	-18.886	-27.467	-39.405	1.00	51.53	D	N
ATOM	18890	C	ASN	D	158	-22.167	-25.475	-41.563	1.00	46.81	D	C
ATOM	18891	O	ASN	D	158	-22.442	-25.071	-40.423	1.00	44.23	D	O
ATOM	18893	N	SER	D	159	-22.270	-24.700	-42.643	1.00	47.57	D	N
ATOM	18894	CA	SER	D	159	-22.762	-23.331	-42.566	1.00	45.03	D	C
ATOM	18896	CB	SER	D	159	-21.596	-22.360	-42.516	1.00	48.33	D	C
ATOM	18899	OG	SER	D	159	-20.827	-22.446	-43.700	1.00	50.56	D	O
ATOM	18901	C	SER	D	159	-23.646	-23.030	-43.768	1.00	45.67	D	C
ATOM	18902	O	SER	D	159	-23.559	-23.712	-44.792	1.00	45.41	D	O
ATOM	18904	N	GLN	D	160	-24.500	-22.023	-43.625	1.00	43.83	D	N
ATOM	18905	CA	GLN	D	160	-25.405	-21.587	-44.681	1.00	45.25	D	C
ATOM	18907	CB	GLN	D	160	-26.787	-22.243	-44.535	1.00	47.55	D	C
ATOM	18910	CG	GLN	D	160	-26.920	-23.577	-45.234	1.00	47.68	D	C

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ATOM	18913	CD	GLN	D	160	-28.257	-24.247	-45.008	1.00	48.64	D	C
ATOM	18914	OE1	GLN	D	160	-28.668	-24.481	-43.869	1.00	52.49	D	O
ATOM	18915	NE2	GLN	D	160	-28.931	-24.593	-46.096	1.00	51.36	D	N
ATOM	18918	C	GLN	D	160	-25.550	-20.088	-44.548	1.00	43.66	D	C
ATOM	18919	O	GLN	D	160	-25.561	-19.576	-43.432	1.00	43.63	D	O
ATOM	18921	N	GLU	D	161	-25.669	-19.407	-45.688	1.00	45.29	D	N
ATOM	18922	CA	GLU	D	161	-25.770	-17.957	-45.755	1.00	47.10	D	C
ATOM	18924	CB	GLU	D	161	-24.738	-17.393	-46.714	1.00	48.86	D	C
ATOM	18927	CG	GLU	D	161	-23.327	-17.548	-46.258	1.00	57.49	D	C
ATOM	18930	CD	GLU	D	161	-22.361	-16.773	-47.124	1.00	60.18	D	C
ATOM	18931	OE1	GLU	D	161	-22.771	-16.353	-48.229	1.00	69.35	D	O
ATOM	18932	OE2	GLU	D	161	-21.196	-16.581	-46.704	1.00	68.61	D	O
ATOM	18933	C	GLU	D	161	-27.109	-17.539	-46.297	1.00	46.24	D	C
ATOM	18934	O	GLU	D	161	-27.756	-18.301	-47.024	1.00	43.08	D	O
ATOM	18936	N	SER	D	162	-27.490	-16.303	-45.973	1.00	45.28	D	N
ATOM	18937	CA	SER	D	162	-28.727	-15.716	-46.451	1.00	44.97	D	C
ATOM	18939	CB	SER	D	162	-29.885	-16.103	-45.532	1.00	47.99	D	C
ATOM	18942	OG	SER	D	162	-31.080	-15.486	-45.933	1.00	46.17	D	O
ATOM	18944	C	SER	D	162	-28.540	-14.214	-46.503	1.00	43.72	D	C
ATOM	18945	O	SER	D	162	-28.093	-13.621	-45.532	1.00	46.06	D	O
ATOM	18947	N	VAL	D	163	-28.868	-13.618	-47.647	1.00	43.09	D	N
ATOM	18948	CA	VAL	D	163	-28.624	-12.206	-47.902	1.00	41.80	D	C
ATOM	18950	CB	VAL	D	163	-27.732	-12.023	-49.160	1.00	37.55	D	C
ATOM	18952	CG1	VAL	D	163	-27.075	-10.676	-49.157	1.00	33.72	D	C
ATOM	18956	CG2	VAL	D	163	-26.679	-13.097	-49.230	1.00	45.17	D	C
ATOM	18960	C	VAL	D	163	-29.962	-11.506	-48.101	1.00	42.11	D	C
ATOM	18961	O	VAL	D	163	-30.854	-12.045	-48.745	1.00	44.53	D	O
ATOM	18963	N	THR	D	164	-30.110	-10.313	-47.539	1.00	44.66	D	N
ATOM	18964	CA	THR	D	164	-31.319	-9.523	-47.759	1.00	44.74	D	C
ATOM	18966	CB	THR	D	164	-31.414	-8.383	-46.757	1.00	42.95	D	C
ATOM	18968	OG1	THR	D	164	-30.129	-7.751	-46.652	1.00	44.32	D	O
ATOM	18970	CG2	THR	D	164	-31.854	-8.891	-45.406	1.00	39.07	D	C
ATOM	18974	C	THR	D	164	-31.303	-8.908	-49.148	1.00	47.82	D	C
ATOM	18975	O	THR	D	164	-30.303	-8.968	-49.866	1.00	50.83	D	O
ATOM	18977	N	GLU	D	165	-32.424	-8.309	-49.521	1.00	52.62	D	N
ATOM	18978	CA	GLU	D	165	-32.495	-7.544	-50.749	1.00	51.62	D	C
ATOM	18980	CB	GLU	D	165	-33.931	-7.557	-51.291	1.00	55.16	D	C
ATOM	18983	CG	GLU	D	165	-34.086	-7.029	-52.717	1.00	61.89	D	C
ATOM	18986	CD	GLU	D	165	-33.172	-7.708	-53.740	1.00	65.51	D	C
ATOM	18987	OE1	GLU	D	165	-33.434	-8.897	-54.066	1.00	62.49	D	O
ATOM	18988	OE2	GLU	D	165	-32.212	-7.032	-54.210	1.00	61.35	D	O
ATOM	18989	C	GLU	D	165	-31.971	-6.131	-50.443	1.00	50.24	D	C
ATOM	18990	O	GLU	D	165	-31.899	-5.724	-49.282	1.00	53.20	D	O
ATOM	18992	N	GLN	D	166	-31.578	-5.407	-51.482	1.00	44.97	D	N
ATOM	18993	CA	GLN	D	166	-31.039	-4.067	-51.324	1.00	45.52	D	C
ATOM	18995	CB	GLN	D	166	-30.729	-3.494	-52.711	1.00	43.59	D	C
ATOM	18998	CG	GLN	D	166	-29.685	-2.429	-52.737	1.00	42.42	D	C
ATOM	19001	CD	GLN	D	166	-29.188	-2.129	-54.146	1.00	41.69	D	C
ATOM	19002	OE1	GLN	D	166	-29.758	-2.592	-55.134	1.00	46.08	D	O
ATOM	19003	NE2	GLN	D	166	-28.118	-1.349	-54.239	1.00	33.09	D	N
ATOM	19006	C	GLN	D	166	-32.020	-3.172	-50.538	1.00	48.21	D	C
ATOM	19007	O	GLN	D	166	-33.226	-3.161	-50.811	1.00	48.92	D	O
ATOM	19009	N	ASP	D	167	-31.499	-2.459	-49.542	1.00	48.06	D	N
ATOM	19010	CA	ASP	D	167	-32.321	-1.640	-48.672	1.00	46.44	D	C
ATOM	19012	CB	ASP	D	167	-31.506	-1.112	-47.491	1.00	45.03	D	C
ATOM	19015	CG	ASP	D	167	-32.360	-0.351	-46.489	1.00	41.70	D	C
ATOM	19016	OD1	ASP	D	167	-33.231	-0.966	-45.877	1.00	38.77	D	O
ATOM	19017	OD2	ASP	D	167	-32.178	0.856	-46.317	1.00	41.59	D	O
ATOM	19018	C	ASP	D	167	-32.850	-0.476	-49.472	1.00	48.61	D	C
ATOM	19019	O	ASP	D	167	-32.112	0.105	-50.259	1.00	47.20	D	O
ATOM	19021	N	SER	D	168	-34.114	-0.126	-49.248	1.00	46.57	D	N
ATOM	19022	CA	SER	D	168	-34.788	0.903	-50.029	1.00	45.39	D	C
ATOM	19024	CB	SER	D	168	-36.308	0.742	-49.875	1.00	45.86	D	C
ATOM	19027	OG	SER	D	168	-36.725	0.947	-48.540	1.00	43.78	D	O
ATOM	19029	C	SER	D	168	-34.375	2.328	-49.676	1.00	44.06	D	C
ATOM	19030	O	SER	D	168	-34.766	3.269	-50.361	1.00	45.43	D	O
ATOM	19032	N	LYS	D	169	-33.603	2.494	-48.606	1.00	47.27	D	N
ATOM	19033	CA	LYS	D	169	-33.156	3.825	-48.160	1.00	48.99	D	C

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ATOM	19035	CB	LYS	D	169	-33.468	4.017	-46.669	1.00	52.68	D	C
ATOM	19038	CG	LYS	D	169	-34.875	3.533	-46.296	1.00	56.30	D	C
ATOM	19041	CD	LYS	D	169	-35.392	4.084	-44.965	1.00	57.42	D	C
ATOM	19044	CE	LYS	D	169	-36.838	3.600	-44.695	1.00	57.96	D	C
ATOM	19047	NZ	LYS	D	169	-37.266	3.771	-43.276	1.00	57.53	D	N
ATOM	19051	C	LYS	D	169	-31.675	4.035	-48.424	1.00	43.84	D	C
ATOM	19052	O	LYS	D	169	-31.307	5.016	-49.041	1.00	45.37	D	O
ATOM	19054	N	ASP	D	170	-30.847	3.085	-47.987	1.00	43.87	D	N
ATOM	19055	CA	ASP	D	170	-29.392	3.189	-48.052	1.00	44.14	D	C
ATOM	19057	CB	ASP	D	170	-28.793	2.822	-46.684	1.00	45.09	D	C
ATOM	19060	CG	ASP	D	170	-29.051	1.379	-46.296	1.00	48.68	D	C
ATOM	19061	OD1	ASP	D	170	-28.824	0.486	-47.125	1.00	46.33	D	O
ATOM	19062	OD2	ASP	D	170	-29.471	1.121	-45.150	1.00	58.82	D	O
ATOM	19063	C	ASP	D	170	-28.746	2.317	-49.142	1.00	41.63	D	C
ATOM	19064	O	ASP	D	170	-27.532	2.388	-49.345	1.00	41.81	D	O
ATOM	19066	N	SER	D	171	-29.547	1.476	-49.799	1.00	37.08	D	N
ATOM	19067	CA	SER	D	171	-29.110	0.661	-50.923	1.00	38.49	D	C
ATOM	19069	CB	SER	D	171	-28.713	1.550	-52.118	1.00	41.96	D	C
ATOM	19072	OG	SER	D	171	-29.800	2.386	-52.535	1.00	41.72	D	O
ATOM	19074	C	SER	D	171	-28.015	-0.368	-50.586	1.00	39.67	D	C
ATOM	19075	O	SER	D	171	-27.280	-0.798	-51.454	1.00	41.27	D	O
ATOM	19077	N	THR	D	172	-27.949	-0.796	-49.329	1.00	43.49	D	N
ATOM	19078	CA	THR	D	172	-26.983	-1.801	-48.899	1.00	39.51	D	C
ATOM	19080	CB	THR	D	172	-26.346	-1.462	-47.544	1.00	36.90	D	C
ATOM	19082	OG1	THR	D	172	-27.352	-1.474	-46.538	1.00	34.25	D	O
ATOM	19084	CG2	THR	D	172	-25.635	-0.104	-47.587	1.00	36.37	D	C
ATOM	19088	C	THR	D	172	-27.616	-3.173	-48.745	1.00	42.91	D	C
ATOM	19089	O	THR	D	172	-28.842	-3.319	-48.733	1.00	42.92	D	O
ATOM	19091	N	TYR	D	173	-26.749	-4.176	-48.608	1.00	42.47	D	N
ATOM	19092	CA	TYR	D	173	-27.154	-5.523	-48.279	1.00	40.63	D	C
ATOM	19094	CB	TYR	D	173	-26.463	-6.519	-49.219	1.00	45.28	D	C
ATOM	19097	CG	TYR	D	173	-26.762	-6.308	-50.677	1.00	46.09	D	C
ATOM	19098	CD1	TYR	D	173	-27.884	-6.886	-51.268	1.00	45.78	D	C
ATOM	19100	CE1	TYR	D	173	-28.178	-6.684	-52.611	1.00	42.43	D	C
ATOM	19102	CZ	TYR	D	173	-27.349	-5.902	-53.374	1.00	46.77	D	C
ATOM	19103	OH	TYR	D	173	-27.629	-5.701	-54.720	1.00	49.44	D	O
ATOM	19105	CE2	TYR	D	173	-26.227	-5.307	-52.801	1.00	47.60	D	C
ATOM	19107	CD2	TYR	D	173	-25.940	-5.519	-51.465	1.00	46.11	D	C
ATOM	19109	C	TYR	D	173	-26.767	-5.855	-46.834	1.00	42.48	D	C
ATOM	19110	O	TYR	D	173	-25.891	-5.215	-46.247	1.00	40.82	D	O
ATOM	19112	N	SER	D	174	-27.435	-6.860	-46.274	1.00	39.24	D	N
ATOM	19113	CA	SER	D	174	-27.008	-7.494	-45.040	1.00	36.55	D	C
ATOM	19115	CB	SER	D	174	-27.911	-7.088	-43.909	1.00	36.85	D	C
ATOM	19118	OG	SER	D	174	-27.739	-5.706	-43.734	1.00	37.23	D	O
ATOM	19120	C	SER	D	174	-27.023	-8.981	-45.211	1.00	36.75	D	C
ATOM	19121	O	SER	D	174	-27.721	-9.486	-46.070	1.00	38.90	D	O
ATOM	19123	N	LEU	D	175	-26.260	-9.688	-44.382	1.00	39.45	D	N
ATOM	19124	CA	LEU	D	175	-26.051	-11.124	-44.552	1.00	38.38	D	C
ATOM	19126	CB	LEU	D	175	-24.790	-11.378	-45.365	1.00	40.84	D	C
ATOM	19129	CG	LEU	D	175	-24.334	-12.818	-45.684	1.00	39.27	D	C
ATOM	19131	CD1	LEU	D	175	-23.705	-12.877	-47.095	1.00	34.02	D	C
ATOM	19135	CD2	LEU	D	175	-23.381	-13.357	-44.650	1.00	37.01	D	C
ATOM	19139	C	LEU	D	175	-25.956	-11.818	-43.206	1.00	42.57	D	C
ATOM	19140	O	LEU	D	175	-25.276	-11.309	-42.296	1.00	39.33	D	O
ATOM	19142	N	SER	D	176	-26.685	-12.940	-43.059	1.00	42.36	D	N
ATOM	19143	CA	SER	D	176	-26.478	-13.826	-41.935	1.00	43.15	D	C
ATOM	19145	CB	SER	D	176	-27.792	-14.208	-41.222	1.00	44.21	D	C
ATOM	19148	OG	SER	D	176	-28.483	-15.267	-41.852	1.00	51.80	D	O
ATOM	19150	C	SER	D	176	-25.681	-15.025	-42.436	1.00	45.20	D	C
ATOM	19151	O	SER	D	176	-25.826	-15.434	-43.590	1.00	49.07	D	O
ATOM	19153	N	SER	D	177	-24.783	-15.528	-41.594	1.00	43.83	D	N
ATOM	19154	CA	SER	D	177	-24.155	-16.835	-41.805	1.00	43.20	D	C
ATOM	19156	CB	SER	D	177	-22.668	-16.724	-42.108	1.00	49.58	D	C
ATOM	19159	OG	SER	D	177	-22.091	-18.009	-42.109	1.00	43.92	D	O
ATOM	19161	C	SER	D	177	-24.330	-17.637	-40.533	1.00	45.01	D	C
ATOM	19162	O	SER	D	177	-24.032	-17.147	-39.440	1.00	41.84	D	O
ATOM	19164	N	THR	D	178	-24.818	-18.866	-40.677	1.00	41.98	D	N
ATOM	19165	CA	THR	D	178	-25.095	-19.681	-39.537	1.00	41.42	D	C

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ATOM	19167	CB	THR	D	178	-26.577	-19.980	-39.439	1.00	45.88	D	C
ATOM	19169	OG1	THR	D	178	-27.288	-18.746	-39.537	1.00	46.34	D	O
ATOM	19171	CG2	THR	D	178	-26.895	-20.624	-38.099	1.00	47.01	D	C
ATOM	19175	C	THR	D	178	-24.278	-20.955	-39.565	1.00	43.03	D	C
ATOM	19176	O	THR	D	178	-24.337	-21.721	-40.517	1.00	40.97	D	O
ATOM	19178	N	LEU	D	179	-23.505	-21.154	-38.494	1.00	43.97	D	N
ATOM	19179	CA	LEU	D	179	-22.783	-22.379	-38.249	1.00	41.84	D	C
ATOM	19181	CB	LEU	D	179	-21.506	-22.045	-37.507	1.00	41.87	D	C
ATOM	19184	CG	LEU	D	179	-20.472	-23.166	-37.313	1.00	42.06	D	C
ATOM	19186	CD1	LEU	D	179	-19.900	-23.571	-38.681	1.00	38.34	D	C
ATOM	19190	CD2	LEU	D	179	-19.385	-22.730	-36.339	1.00	36.54	D	C
ATOM	19194	C	LEU	D	179	-23.650	-23.352	-37.404	1.00	45.72	D	C
ATOM	19195	O	LEU	D	179	-24.098	-23.006	-36.309	1.00	42.23	D	O
ATOM	19197	N	THR	D	180	-23.892	-24.559	-37.922	1.00	48.77	D	N
ATOM	19198	CA	THR	D	180	-24.667	-25.552	-37.212	1.00	51.23	D	C
ATOM	19200	CB	THR	D	180	-25.793	-26.159	-38.099	1.00	54.63	D	C
ATOM	19202	OG1	THR	D	180	-26.665	-25.120	-38.561	1.00	55.90	D	O
ATOM	19204	CG2	THR	D	180	-26.622	-27.177	-37.302	1.00	52.12	D	C
ATOM	19208	C	THR	D	180	-23.750	-26.667	-36.685	1.00	52.64	D	C
ATOM	19209	O	THR	D	180	-23.081	-27.375	-37.462	1.00	52.84	D	O
ATOM	19211	N	LEU	D	181	-23.735	-26.806	-35.357	1.00	54.70	D	N
ATOM	19212	CA	LEU	D	181	-22.968	-27.841	-34.661	1.00	55.04	D	C
ATOM	19214	CB	LEU	D	181	-21.908	-27.198	-33.773	1.00	50.24	D	C
ATOM	19217	CG	LEU	D	181	-20.877	-26.296	-34.438	1.00	51.53	D	C
ATOM	19219	CD1	LEU	D	181	-20.131	-25.502	-33.399	1.00	47.98	D	C
ATOM	19223	CD2	LEU	D	181	-19.902	-27.123	-35.296	1.00	55.54	D	C
ATOM	19227	C	LEU	D	181	-23.879	-28.655	-33.760	1.00	56.22	D	C
ATOM	19228	O	LEU	D	181	-24.949	-28.196	-33.358	1.00	58.12	D	O
ATOM	19230	N	SER	D	182	-23.440	-29.857	-33.413	1.00	58.83	D	N
ATOM	19231	CA	SER	D	182	-24.051	-30.591	-32.304	1.00	58.51	D	C
ATOM	19233	CB	SER	D	182	-23.544	-32.035	-32.261	1.00	58.38	D	C
ATOM	19236	OG	SER	D	182	-22.207	-32.073	-31.801	1.00	63.89	D	O
ATOM	19238	C	SER	D	182	-23.690	-29.863	-31.003	1.00	57.35	D	C
ATOM	19239	O	SER	D	182	-22.721	-29.120	-30.958	1.00	56.98	D	O
ATOM	19241	N	LYS	D	183	-24.475	-30.069	-29.949	1.00	61.01	D	N
ATOM	19242	CA	LYS	D	183	-24.111	-29.553	-28.624	1.00	61.48	D	C
ATOM	19244	CB	LYS	D	183	-25.228	-29.793	-27.607	1.00	65.10	D	C
ATOM	19247	CG	LYS	D	183	-24.825	-29.606	-26.140	1.00	67.42	D	C
ATOM	19250	CD	LYS	D	183	-26.059	-29.425	-25.227	1.00	67.58	D	C
ATOM	19253	CE	LYS	D	183	-25.692	-29.356	-23.727	1.00	69.53	D	C
ATOM	19256	NZ	LYS	D	183	-26.881	-29.065	-22.843	1.00	69.30	D	N
ATOM	19260	C	LYS	D	183	-22.808	-30.208	-28.183	1.00	60.89	D	C
ATOM	19261	O	LYS	D	183	-21.933	-29.543	-27.621	1.00	61.39	D	O
ATOM	19263	N	ALA	D	184	-22.678	-31.504	-28.472	1.00	63.13	D	N
ATOM	19264	CA	ALA	D	184	-21.460	-32.267	-28.194	1.00	62.04	D	C
ATOM	19266	CB	ALA	D	184	-21.574	-33.677	-28.778	1.00	62.03	D	C
ATOM	19270	C	ALA	D	184	-20.223	-31.558	-28.737	1.00	61.41	D	C
ATOM	19271	O	ALA	D	184	-19.305	-31.249	-27.980	1.00	62.14	D	O
ATOM	19273	N	ASP	D	185	-20.209	-31.292	-30.044	1.00	64.21	D	N
ATOM	19274	CA	ASP	D	185	-19.057	-30.635	-30.689	1.00	60.74	D	C
ATOM	19276	CB	ASP	D	185	-19.160	-30.678	-32.223	1.00	65.79	D	C
ATOM	19279	CG	ASP	D	185	-18.690	-31.995	-32.814	1.00	70.34	D	C
ATOM	19280	OD1	ASP	D	185	-17.958	-32.763	-32.141	1.00	73.63	D	O
ATOM	19281	OD2	ASP	D	185	-19.051	-32.253	-33.981	1.00	73.20	D	O
ATOM	19282	C	ASP	D	185	-18.887	-29.191	-30.229	1.00	56.56	D	C
ATOM	19283	O	ASP	D	185	-17.763	-28.735	-30.015	1.00	58.77	D	O
ATOM	19285	N	TYR	D	186	-19.999	-28.474	-30.080	1.00	56.43	D	N
ATOM	19286	CA	TYR	D	186	-19.958	-27.094	-29.626	1.00	55.77	D	C
ATOM	19288	CB	TYR	D	186	-21.369	-26.474	-29.533	1.00	51.16	D	C
ATOM	19291	CG	TYR	D	186	-21.315	-25.041	-29.013	1.00	49.78	D	C
ATOM	19292	CD1	TYR	D	186	-20.622	-24.054	-29.717	1.00	48.42	D	C
ATOM	19294	CE1	TYR	D	186	-20.523	-22.762	-29.237	1.00	46.95	D	C
ATOM	19296	CZ	TYR	D	186	-21.122	-22.444	-28.037	1.00	47.68	D	C
ATOM	19297	OH	TYR	D	186	-21.033	-21.170	-27.550	1.00	49.73	D	O
ATOM	19299	CE2	TYR	D	186	-21.807	-23.395	-27.316	1.00	48.58	D	C
ATOM	19301	CD2	TYR	D	186	-21.894	-24.695	-27.805	1.00	46.07	D	C
ATOM	19303	C	TYR	D	186	-19.254	-26.977	-28.277	1.00	55.56	D	C
ATOM	19304	O	TYR	D	186	-18.361	-26.158	-28.115	1.00	52.55	D	O

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ATOM	19306	N	GLU	D	187	-19.656	-27.799	-27.311	1.00	61.89	D	N
ATOM	19307	CA	GLU	D	187	-19.007	-27.790	-25.987	1.00	63.34	D	C
ATOM	19309	CB	GLU	D	187	-19.948	-28.318	-24.907	1.00	68.82	D	C
ATOM	19312	CG	GLU	D	187	-20.768	-27.198	-24.281	1.00	72.70	D	C
ATOM	19315	CD	GLU	D	187	-22.193	-27.602	-24.030	1.00	78.61	D	C
ATOM	19316	OE1	GLU	D	187	-22.442	-28.829	-23.911	1.00	83.31	D	O
ATOM	19317	OE2	GLU	D	187	-23.054	-26.691	-23.953	1.00	76.05	D	O
ATOM	19318	C	GLU	D	187	-17.640	-28.490	-25.937	1.00	62.94	D	C
ATOM	19319	O	GLU	D	187	-16.984	-28.470	-24.912	1.00	63.10	D	O
ATOM	19321	N	LYS	D	188	-17.209	-29.076	-27.048	1.00	64.07	D	N
ATOM	19322	CA	LYS	D	188	-15.875	-29.642	-27.154	1.00	64.06	D	C
ATOM	19324	CB	LYS	D	188	-15.862	-30.754	-28.199	1.00	67.37	D	C
ATOM	19327	CG	LYS	D	188	-15.025	-31.960	-27.799	1.00	73.55	D	C
ATOM	19330	CD	LYS	D	188	-15.502	-33.247	-28.481	1.00	73.15	D	C
ATOM	19333	CE	LYS	D	188	-16.985	-33.524	-28.210	1.00	74.59	D	C
ATOM	19336	NZ	LYS	D	188	-17.315	-34.970	-28.317	1.00	76.62	D	N
ATOM	19340	C	LYS	D	188	-14.837	-28.572	-27.520	1.00	64.54	D	C
ATOM	19341	O	LYS	D	188	-13.640	-28.767	-27.286	1.00	68.25	D	O
ATOM	19343	N	HIS	D	189	-15.275	-27.451	-28.097	1.00	59.62	D	N
ATOM	19344	CA	HIS	D	189	-14.341	-26.406	-28.535	1.00	58.05	D	C
ATOM	19346	CB	HIS	D	189	-14.402	-26.290	-30.044	1.00	53.46	D	C
ATOM	19349	CG	HIS	D	189	-14.067	-27.571	-30.727	1.00	52.15	D	C
ATOM	19350	ND1	HIS	D	189	-15.000	-28.564	-30.937	1.00	52.24	D	N
ATOM	19352	CE1	HIS	D	189	-14.420	-29.590	-31.529	1.00	52.12	D	C
ATOM	19354	NE2	HIS	D	189	-13.142	-29.303	-31.695	1.00	51.57	D	N
ATOM	19356	CD2	HIS	D	189	-12.895	-28.051	-31.191	1.00	49.40	D	C
ATOM	19358	C	HIS	D	189	-14.546	-25.056	-27.857	1.00	55.21	D	C
ATOM	19359	O	HIS	D	189	-15.591	-24.795	-27.277	1.00	50.76	D	O
ATOM	19361	N	LYS	D	190	-13.518	-24.211	-27.934	1.00	60.45	D	N
ATOM	19362	CA	LYS	D	190	-13.495	-22.932	-27.215	1.00	61.67	D	C
ATOM	19364	CB	LYS	D	190	-12.189	-22.765	-26.408	1.00	64.07	D	C
ATOM	19367	CG	LYS	D	190	-11.706	-21.296	-26.274	1.00	69.50	D	C
ATOM	19370	CD	LYS	D	190	-11.177	-20.914	-24.883	1.00	72.86	D	C
ATOM	19373	CE	LYS	D	190	-9.648	-21.042	-24.768	1.00	75.88	D	C
ATOM	19376	NZ	LYS	D	190	-9.118	-20.196	-23.649	1.00	75.15	D	N
ATOM	19380	C	LYS	D	190	-13.704	-21.723	-28.138	1.00	60.27	D	C
ATOM	19381	O	LYS	D	190	-14.545	-20.870	-27.852	1.00	61.32	D	O
ATOM	19383	N	VAL	D	191	-12.928	-21.630	-29.215	1.00	57.66	D	N
ATOM	19384	CA	VAL	D	191	-12.891	-20.412	-30.023	1.00	56.33	D	C
ATOM	19386	CB	VAL	D	191	-11.450	-20.009	-30.404	1.00	54.22	D	C
ATOM	19388	CG1	VAL	D	191	-11.485	-18.812	-31.380	1.00	47.75	D	C
ATOM	19392	CG2	VAL	D	191	-10.636	-19.698	-29.148	1.00	51.32	D	C
ATOM	19396	C	VAL	D	191	-13.711	-20.526	-31.311	1.00	54.40	D	C
ATOM	19397	O	VAL	D	191	-13.388	-21.324	-32.207	1.00	52.32	D	O
ATOM	19399	N	TYR	D	192	-14.745	-19.694	-31.407	1.00	53.05	D	N
ATOM	19400	CA	TYR	D	192	-15.594	-19.654	-32.594	1.00	52.75	D	C
ATOM	19402	CB	TYR	D	192	-17.043	-19.922	-32.216	1.00	54.32	D	C
ATOM	19405	CG	TYR	D	192	-17.186	-21.276	-31.573	1.00	54.11	D	C
ATOM	19406	CD1	TYR	D	192	-17.493	-22.395	-32.331	1.00	52.99	D	C
ATOM	19408	CE1	TYR	D	192	-17.603	-23.635	-31.751	1.00	55.22	D	C
ATOM	19410	CZ	TYR	D	192	-17.391	-23.775	-30.391	1.00	55.66	D	C
ATOM	19411	OH	TYR	D	192	-17.510	-24.993	-29.804	1.00	54.61	D	O
ATOM	19413	CE2	TYR	D	192	-17.077	-22.684	-29.612	1.00	56.29	D	C
ATOM	19415	CD2	TYR	D	192	-16.969	-21.439	-30.208	1.00	54.03	D	C
ATOM	19417	C	TYR	D	192	-15.432	-18.326	-33.315	1.00	49.73	D	C
ATOM	19418	O	TYR	D	192	-15.689	-17.266	-32.748	1.00	47.81	D	O
ATOM	19420	N	ALA	D	193	-14.997	-18.394	-34.568	1.00	45.96	D	N
ATOM	19421	CA	ALA	D	193	-14.589	-17.197	-35.281	1.00	49.40	D	C
ATOM	19423	CB	ALA	D	193	-13.052	-17.118	-35.413	1.00	50.97	D	C
ATOM	19427	C	ALA	D	193	-15.221	-17.121	-36.651	1.00	49.78	D	C
ATOM	19428	O	ALA	D	193	-15.239	-18.094	-37.426	1.00	48.86	D	O
ATOM	19430	N	CYS	D	194	-15.675	-15.919	-36.954	1.00	51.74	D	N
ATOM	19431	CA	CYS	D	194	-16.277	-15.596	-38.217	1.00	50.40	D	C
ATOM	19433	CB	CYS	D	194	-17.620	-14.922	-37.952	1.00	54.71	D	C
ATOM	19436	SG	CYS	D	194	-18.426	-14.498	-39.441	1.00	60.80	D	S
ATOM	19438	C	CYS	D	194	-15.339	-14.624	-38.921	1.00	48.71	D	C
ATOM	19439	O	CYS	D	194	-15.133	-13.512	-38.427	1.00	47.09	D	O
ATOM	19441	N	GLU	D	195	-14.768	-15.045	-40.052	1.00	50.54	D	N

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ATOM	19442	CA	GLU	D	195	-13.896	-14.184	-40.855	1.00	50.72	D	C
ATOM	19444	CB	GLU	D	195	-12.606	-14.915	-41.225	1.00	54.74	D	C
ATOM	19447	CG	GLU	D	195	-11.581	-13.961	-41.879	1.00	54.97	D	C
ATOM	19450	CD	GLU	D	195	-10.309	-14.656	-42.309	1.00	58.81	D	C
ATOM	19451	OE1	GLU	D	195	-10.402	-15.701	-43.000	1.00	59.12	D	O
ATOM	19452	OE2	GLU	D	195	-9.217	-14.142	-41.956	1.00	66.04	D	O
ATOM	19453	C	GLU	D	195	-14.587	-13.686	-42.133	1.00	48.21	D	C
ATOM	19454	O	GLU	D	195	-15.112	-14.486	-42.907	1.00	48.32	D	O
ATOM	19456	N	VAL	D	196	-14.550	-12.373	-42.349	1.00	49.51	D	N
ATOM	19457	CA	VAL	D	196	-15.282	-11.714	-43.430	1.00	46.28	D	C
ATOM	19459	CB	VAL	D	196	-16.185	-10.626	-42.838	1.00	44.79	D	C
ATOM	19461	CG1	VAL	D	196	-16.833	-9.780	-43.951	1.00	43.32	D	C
ATOM	19465	CG2	VAL	D	196	-17.219	-11.254	-41.953	1.00	42.25	D	C
ATOM	19469	C	VAL	D	196	-14.371	-11.045	-44.456	1.00	46.06	D	C
ATOM	19470	O	VAL	D	196	-13.551	-10.208	-44.097	1.00	47.08	D	O
ATOM	19472	N	THR	D	197	-14.540	-11.387	-45.737	1.00	47.54	D	N
ATOM	19473	CA	THR	D	197	-13.825	-10.692	-46.831	1.00	47.09	D	C
ATOM	19475	CB	THR	D	197	-13.047	-11.692	-47.759	1.00	52.80	D	C
ATOM	19477	OG1	THR	D	197	-12.292	-12.610	-46.961	1.00	55.00	D	O
ATOM	19479	CG2	THR	D	197	-12.101	-10.962	-48.761	1.00	50.59	D	C
ATOM	19483	C	THR	D	197	-14.831	-9.885	-47.667	1.00	46.61	D	C
ATOM	19484	O	THR	D	197	-15.842	-10.419	-48.135	1.00	45.51	D	O
ATOM	19486	N	HIS	D	198	-14.538	-8.598	-47.845	1.00	48.80	D	N
ATOM	19487	CA	HIS	D	198	-15.352	-7.689	-48.631	1.00	48.47	D	C
ATOM	19489	CB	HIS	D	198	-16.492	-7.112	-47.797	1.00	50.23	D	C
ATOM	19492	CG	HIS	D	198	-17.408	-6.225	-48.585	1.00	50.82	D	C
ATOM	19493	ND1	HIS	D	198	-17.199	-4.870	-48.715	1.00	53.22	D	N
ATOM	19495	CE1	HIS	D	198	-18.143	-4.350	-49.474	1.00	49.60	D	C
ATOM	19497	NE2	HIS	D	198	-18.955	-5.321	-49.848	1.00	53.50	D	N
ATOM	19499	CD2	HIS	D	198	-18.519	-6.504	-49.306	1.00	47.96	D	C
ATOM	19501	C	HIS	D	198	-14.478	-6.538	-49.167	1.00	50.55	D	C
ATOM	19502	O	HIS	D	198	-13.491	-6.134	-48.522	1.00	52.51	D	O
ATOM	19504	N	GLN	D	199	-14.864	-6.009	-50.332	1.00	50.13	D	N
ATOM	19505	CA	GLN	D	199	-14.137	-4.931	-51.001	1.00	49.94	D	C
ATOM	19507	CB	GLN	D	199	-14.821	-4.566	-52.346	1.00	54.46	D	C
ATOM	19510	CG	GLN	D	199	-14.258	-3.319	-53.056	1.00	55.35	D	C
ATOM	19513	CD	GLN	D	199	-15.007	-2.933	-54.355	1.00	60.27	D	C
ATOM	19514	OE1	GLN	D	199	-15.806	-3.712	-54.908	1.00	59.18	D	O
ATOM	19515	NE2	GLN	D	199	-14.738	-1.709	-54.844	1.00	57.47	D	N
ATOM	19518	C	GLN	D	199	-13.958	-3.680	-50.124	1.00	49.66	D	C
ATOM	19519	O	GLN	D	199	-12.972	-2.963	-50.278	1.00	51.51	D	O
ATOM	19521	N	GLY	D	200	-14.899	-3.400	-49.226	1.00	46.97	D	N
ATOM	19522	CA	GLY	D	200	-14.801	-2.233	-48.356	1.00	46.16	D	C
ATOM	19525	C	GLY	D	200	-13.935	-2.465	-47.128	1.00	47.56	D	C
ATOM	19526	O	GLY	D	200	-13.790	-1.562	-46.310	1.00	46.75	D	O
ATOM	19528	N	LEU	D	201	-13.397	-3.681	-46.978	1.00	48.89	D	N
ATOM	19529	CA	LEU	D	201	-12.474	-4.035	-45.882	1.00	51.37	D	C
ATOM	19531	CB	LEU	D	201	-12.948	-5.308	-45.151	1.00	52.74	D	C
ATOM	19534	CG	LEU	D	201	-14.224	-5.180	-44.292	1.00	51.46	D	C
ATOM	19536	CD1	LEU	D	201	-14.687	-6.539	-43.757	1.00	44.16	D	C
ATOM	19540	CD2	LEU	D	201	-14.015	-4.184	-43.159	1.00	50.44	D	C
ATOM	19544	C	LEU	D	201	-11.082	-4.263	-46.460	1.00	51.58	D	C
ATOM	19545	O	LEU	D	201	-10.911	-5.112	-47.334	1.00	48.63	D	O
ATOM	19547	N	SER	D	202	-10.093	-3.508	-45.972	1.00	54.97	D	N
ATOM	19548	CA	SER	D	202	-8.736	-3.508	-46.565	1.00	57.47	D	C
ATOM	19550	CB	SER	D	202	-7.846	-2.460	-45.873	1.00	67.97	D	C
ATOM	19553	OG	SER	D	202	-7.659	-2.758	-44.492	1.00	73.57	D	O
ATOM	19555	C	SER	D	202	-8.069	-4.903	-46.517	1.00	60.46	D	C
ATOM	19556	O	SER	D	202	-7.465	-5.361	-47.506	1.00	58.98	D	O
ATOM	19558	N	SER	D	203	-8.190	-5.558	-45.356	1.00	60.48	D	N
ATOM	19559	CA	SER	D	203	-7.933	-7.000	-45.197	1.00	58.31	D	C
ATOM	19561	CB	SER	D	203	-6.620	-7.211	-44.425	1.00	59.08	D	C
ATOM	19564	OG	SER	D	203	-6.649	-6.493	-43.194	1.00	59.30	D	O
ATOM	19566	C	SER	D	203	-9.106	-7.667	-44.436	1.00	58.84	D	C
ATOM	19567	O	SER	D	203	-9.877	-6.971	-43.741	1.00	57.58	D	O
ATOM	19569	N	PRO	D	204	-9.242	-9.012	-44.554	1.00	57.78	D	N
ATOM	19570	CA	PRO	D	204	-10.343	-9.750	-43.906	1.00	58.14	D	C
ATOM	19572	CB	PRO	D	204	-9.985	-11.221	-44.164	1.00	59.58	D	C

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ATOM	19575	CG	PRO	D	204	-9.178	-11.188	-45.455	1.00	59.78	D	C
ATOM	19578	CD	PRO	D	204	-8.377	-9.911	-45.354	1.00	60.01	D	C
ATOM	19581	C	PRO	D	204	-10.452	-9.504	-42.413	1.00	59.16	D	C
ATOM	19582	O	PRO	D	204	-9.447	-9.568	-41.723	1.00	61.55	D	O
ATOM	19583	N	VAL	D	205	-11.665	-9.221	-41.943	1.00	58.15	D	N
ATOM	19584	CA	VAL	D	205	-11.944	-8.979	-40.541	1.00	55.87	D	C
ATOM	19586	CB	VAL	D	205	-12.922	-7.798	-40.390	1.00	60.14	D	C
ATOM	19588	CG1	VAL	D	205	-13.794	-7.948	-39.140	1.00	61.89	D	C
ATOM	19592	CG2	VAL	D	205	-12.140	-6.486	-40.373	1.00	62.00	D	C
ATOM	19596	C	VAL	D	205	-12.519	-10.239	-39.891	1.00	55.73	D	C
ATOM	19597	O	VAL	D	205	-13.385	-10.915	-40.458	1.00	58.30	D	O
ATOM	19599	N	THR	D	206	-12.035	-10.549	-38.693	1.00	54.64	D	N
ATOM	19600	CA	THR	D	206	-12.464	-11.736	-37.938	1.00	51.49	D	C
ATOM	19602	CB	THR	D	206	-11.238	-12.618	-37.557	1.00	50.61	D	C
ATOM	19604	OG1	THR	D	206	-10.604	-13.090	-38.758	1.00	47.13	D	O
ATOM	19606	CG2	THR	D	206	-11.630	-13.805	-36.687	1.00	50.76	D	C
ATOM	19610	C	THR	D	206	-13.203	-11.274	-36.698	1.00	48.60	D	C
ATOM	19611	O	THR	D	206	-12.755	-10.352	-36.023	1.00	45.98	D	O
ATOM	19613	N	LYS	D	207	-14.359	-11.882	-36.436	1.00	47.76	D	N
ATOM	19614	CA	LYS	D	207	-15.152	-11.577	-35.256	1.00	48.01	D	C
ATOM	19616	CB	LYS	D	207	-16.513	-11.002	-35.661	1.00	51.33	D	C
ATOM	19619	CG	LYS	D	207	-17.347	-10.462	-34.522	1.00	51.83	D	C
ATOM	19622	CD	LYS	D	207	-16.876	-9.076	-34.113	1.00	52.72	D	C
ATOM	19625	CE	LYS	D	207	-17.802	-8.462	-33.068	1.00	54.05	D	C
ATOM	19628	NZ	LYS	D	207	-17.323	-7.101	-32.683	1.00	57.41	D	N
ATOM	19632	C	LYS	D	207	-15.333	-12.889	-34.523	1.00	45.79	D	C
ATOM	19633	O	LYS	D	207	-15.768	-13.879	-35.130	1.00	46.67	D	O
ATOM	19635	N	SER	D	208	-15.005	-12.920	-33.231	1.00	46.64	D	N
ATOM	19636	CA	SER	D	208	-14.984	-14.195	-32.514	1.00	48.10	D	C
ATOM	19638	CB	SER	D	208	-13.609	-14.875	-32.661	1.00	56.01	D	C
ATOM	19641	OG	SER	D	208	-12.541	-13.974	-32.416	1.00	61.91	D	O
ATOM	19643	C	SER	D	208	-15.335	-14.068	-31.052	1.00	48.51	D	C
ATOM	19644	O	SER	D	208	-15.267	-12.998	-30.490	1.00	52.43	D	O
ATOM	19646	N	PHE	D	209	-15.723	-15.186	-30.454	1.00	47.14	D	N
ATOM	19647	CA	PHE	D	209	-15.889	-15.287	-29.009	1.00	49.69	D	C
ATOM	19649	CB	PHE	D	209	-17.374	-15.137	-28.608	1.00	49.29	D	C
ATOM	19652	CG	PHE	D	209	-18.229	-16.306	-29.012	1.00	49.29	D	C
ATOM	19653	CD1	PHE	D	209	-18.455	-17.358	-28.132	1.00	50.09	D	C
ATOM	19655	CE1	PHE	D	209	-19.221	-18.450	-28.497	1.00	48.65	D	C
ATOM	19657	CZ	PHE	D	209	-19.762	-18.503	-29.765	1.00	49.81	D	C
ATOM	19659	CE2	PHE	D	209	-19.531	-17.460	-30.660	1.00	47.39	D	C
ATOM	19661	CD2	PHE	D	209	-18.767	-16.379	-30.285	1.00	47.64	D	C
ATOM	19663	C	PHE	D	209	-15.304	-16.634	-28.528	1.00	49.46	D	C
ATOM	19664	O	PHE	D	209	-15.040	-17.549	-29.339	1.00	46.80	D	O
ATOM	19666	N	ASN	D	210	-15.096	-16.725	-27.214	1.00	51.50	D	N
ATOM	19667	CA	ASN	D	210	-14.689	-17.966	-26.542	1.00	52.55	D	C
ATOM	19669	CB	ASN	D	210	-13.631	-17.643	-25.499	1.00	54.69	D	C
ATOM	19672	CG	ASN	D	210	-12.476	-16.855	-26.079	1.00	56.61	D	C
ATOM	19673	OD1	ASN	D	210	-12.250	-15.708	-25.694	1.00	57.27	D	O
ATOM	19674	ND2	ASN	D	210	-11.747	-17.461	-27.030	1.00	55.35	D	N
ATOM	19677	C	ASN	D	210	-15.892	-18.569	-25.858	1.00	52.84	D	C
ATOM	19678	O	ASN	D	210	-16.650	-17.835	-25.220	1.00	50.87	D	O
ATOM	19680	N	ARG	D	211	-16.094	-19.883	-25.990	1.00	55.79	D	N
ATOM	19681	CA	ARG	D	211	-17.303	-20.500	-25.437	1.00	58.69	D	C
ATOM	19683	CB	ARG	D	211	-17.393	-21.994	-25.733	1.00	59.16	D	C
ATOM	19686	CG	ARG	D	211	-18.678	-22.649	-25.192	1.00	58.13	D	C
ATOM	19689	CD	ARG	D	211	-18.682	-24.150	-25.410	1.00	62.00	D	C
ATOM	19692	NE	ARG	D	211	-17.366	-24.758	-25.174	1.00	63.90	D	N
ATOM	19694	CZ	ARG	D	211	-16.816	-24.939	-23.970	1.00	67.08	D	C
ATOM	19695	NH1	ARG	D	211	-17.456	-24.582	-22.855	1.00	68.10	D	N
ATOM	19698	NH2	ARG	D	211	-15.609	-25.494	-23.878	1.00	67.43	D	N
ATOM	19701	C	ARG	D	211	-17.349	-20.240	-23.942	1.00	63.79	D	C
ATOM	19702	O	ARG	D	211	-16.375	-20.464	-23.231	1.00	61.46	D	O
ATOM	19704	N	GLY	D	212	-18.518	-19.817	-23.486	1.00	71.65	D	N
ATOM	19705	CA	GLY	D	212	-18.648	-18.962	-22.319	1.00	78.79	D	C
ATOM	19708	C	GLY	D	212	-18.749	-17.551	-22.895	1.00	85.37	D	C
ATOM	19709	O	GLY	D	212	-19.225	-17.395	-24.035	1.00	89.68	D	O
ATOM	19711	N	GLU	D	213	-18.316	-16.540	-22.127	1.00	87.45	D	N

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ATOM	19712	CA	GLU	D	213	-18.150	-15.141	-22.599	1.00	88.16	D	C
ATOM	19714	CB	GLU	D	213	-16.716	-14.965	-23.149	1.00	91.22	D	C
ATOM	19717	CG	GLU	D	213	-15.653	-14.665	-22.056	1.00	92.30	D	C
ATOM	19720	CD	GLU	D	213	-14.451	-15.616	-22.083	1.00	92.85	D	C
ATOM	19721	OE1	GLU	D	213	-14.650	-16.830	-21.845	1.00	92.53	D	O
ATOM	19722	OE2	GLU	D	213	-13.310	-15.146	-22.323	1.00	92.58	D	O
ATOM	19723	C	GLU	D	213	-19.216	-14.555	-23.576	1.00	89.57	D	C
ATOM	19724	O	GLU	D	213	-19.976	-15.264	-24.254	1.00	89.03	D	O
ATOM	19726	CL	CL	I	1	-54.281	2.347	-59.649	1.00	28.91	I	CL
ATOM	19727	CL	CL	I	2	-60.942	-6.901	-76.219	1.00	54.32	I	CL
ATOM	19728	OW0	WAT	M	2	-4.534	15.367	-0.874	1.00	18.14	M	O
ATOM	19731	OW0	WAT	M	3	-35.291	23.410	15.442	1.00	24.36	M	O
ATOM	19734	OW0	WAT	M	5	-34.835	20.706	14.449	1.00	37.92	M	O
ATOM	19737	OW0	WAT	M	6	-37.927	-5.957	-75.491	1.00	25.09	M	O
ATOM	19740	OW0	WAT	M	7	-21.419	13.667	15.297	1.00	26.88	M	O
ATOM	19743	OW0	WAT	M	8	20.933	10.125	-36.094	1.00	60.69	M	O
ATOM	19746	OW0	WAT	M	9	-47.242	16.589	9.571	1.00	29.36	M	O
ATOM	19749	OW0	WAT	M	10	-8.589	28.328	-20.932	1.00	31.04	M	O
ATOM	19752	OW0	WAT	M	11	-46.641	19.023	20.352	1.00	32.44	M	O
ATOM	19755	OW0	WAT	M	12	-4.389	-5.578	-8.131	1.00	44.36	M	O
ATOM	19758	OW0	WAT	M	13	0.866	14.130	-18.623	1.00	28.76	M	O
ATOM	19761	OW0	WAT	M	14	-37.893	25.389	10.078	1.00	26.62	M	O
ATOM	19764	OW0	WAT	M	15	-5.619	9.736	-23.476	1.00	25.21	M	O
ATOM	19767	OW0	WAT	M	16	13.732	21.195	-14.902	1.00	28.82	M	O
ATOM	19770	OW0	WAT	M	17	-44.296	-3.704	-54.865	1.00	29.21	M	O
ATOM	19773	OW0	WAT	M	18	-14.549	-0.785	-10.645	1.00	37.70	M	O
ATOM	19776	OW0	WAT	M	19	-31.890	0.950	-52.804	1.00	28.85	M	O
ATOM	19779	OW0	WAT	M	20	-15.871	-4.863	-14.468	1.00	32.37	M	O
ATOM	19782	OW0	WAT	M	21	-54.349	6.249	-75.001	1.00	69.32	M	O
ATOM	19785	OW0	WAT	M	22	19.532	15.123	-18.661	1.00	32.55	M	O
ATOM	19788	OW0	WAT	M	23	-41.979	21.730	21.556	1.00	24.74	M	O
ATOM	19791	OW0	WAT	M	24	17.691	4.228	-25.982	1.00	27.81	M	O
ATOM	19794	OW0	WAT	M	25	3.179	13.377	-11.091	1.00	27.03	M	O
ATOM	19797	OW0	WAT	M	26	-46.147	20.934	16.845	1.00	28.42	M	O
ATOM	19800	OW0	WAT	M	27	-15.678	5.801	9.334	1.00	28.38	M	O
ATOM	19803	OW0	WAT	M	28	-13.049	2.883	-2.347	1.00	30.71	M	O
ATOM	19806	OW0	WAT	M	29	-58.291	-3.451	-59.105	1.00	31.01	M	O
ATOM	19809	OW0	WAT	M	30	-10.145	12.874	-4.134	1.00	28.92	M	O
ATOM	19812	OW0	WAT	M	31	1.253	-4.003	-21.892	1.00	28.95	M	O
ATOM	19815	OW0	WAT	M	32	-46.856	-23.145	-47.970	1.00	31.09	M	O
ATOM	19818	OW0	WAT	M	33	-42.886	-12.950	-65.674	1.00	26.68	M	O
ATOM	19821	OW0	WAT	M	34	-26.938	22.308	1.239	1.00	32.81	M	O
ATOM	19824	OW0	WAT	M	35	-2.912	13.067	-5.572	1.00	29.70	M	O
ATOM	19827	OW0	WAT	M	36	-25.572	15.823	15.827	1.00	23.30	M	O
ATOM	19830	OW0	WAT	M	37	-8.622	11.066	3.938	1.00	40.15	M	O
ATOM	19833	OW0	WAT	M	38	-66.032	-12.467	-70.057	1.00	32.73	M	O
ATOM	19836	OW0	WAT	M	39	-18.436	-4.274	-26.926	1.00	53.02	M	O
ATOM	19839	OW0	WAT	M	40	-62.205	-17.350	-59.542	1.00	38.82	M	O
ATOM	19842	OW0	WAT	M	41	28.338	-9.426	-23.257	1.00	49.31	M	O
ATOM	19845	OW0	WAT	M	42	-23.683	14.344	-10.354	1.00	29.81	M	O
ATOM	19848	OW0	WAT	M	43	-96.515	15.554	-68.590	1.00	50.30	M	O
ATOM	19851	OW0	WAT	M	45	-39.914	9.181	-66.831	1.00	41.67	M	O
ATOM	19854	OW0	WAT	M	46	-30.479	17.106	4.341	1.00	35.52	M	O
ATOM	19857	OW0	WAT	M	47	-44.523	30.045	10.553	1.00	21.74	M	O
ATOM	19860	OW0	WAT	M	48	5.418	16.323	-19.178	1.00	37.34	M	O
ATOM	19863	OW0	WAT	M	49	-37.733	32.247	19.311	1.00	30.00	M	O
ATOM	19866	OW0	WAT	M	50	-3.912	-6.478	-15.147	1.00	31.90	M	O
ATOM	19869	OW0	WAT	M	51	17.063	14.294	-18.650	1.00	34.51	M	O
ATOM	19872	OW0	WAT	M	52	-18.561	-23.844	-42.765	1.00	36.09	M	O
ATOM	19875	OW0	WAT	M	53	-21.384	-18.980	-44.959	1.00	37.55	M	O
ATOM	19878	OW0	WAT	M	54	18.205	5.329	-29.791	1.00	30.71	M	O
ATOM	19881	OW0	WAT	M	55	-10.913	33.164	-6.150	1.00	44.43	M	O
ATOM	19884	OW0	WAT	M	56	-44.584	18.450	29.220	1.00	27.90	M	O
ATOM	19887	OW0	WAT	M	57	-8.568	9.631	-2.324	1.00	29.45	M	O
ATOM	19890	OW0	WAT	M	58	-63.696	-6.318	-64.827	1.00	27.62	M	O
ATOM	19893	OW0	WAT	M	59	-10.177	14.602	-2.180	1.00	43.16	M	O
ATOM	19896	OW0	WAT	M	60	-0.830	-10.545	-28.927	1.00	40.02	M	O
ATOM	19899	OW0	WAT	M	61	-14.397	-2.677	-30.574	1.00	36.73	M	O

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ATOM	19902	OW0	WAT	M	62	-1.331	-8.781	-11.506	1.00	32.26	M	O
ATOM	19905	OW0	WAT	M	63	-79.884	11.946	-80.761	1.00	75.12	M	O
ATOM	19908	OW0	WAT	M	64	-16.759	-7.195	-51.786	1.00	45.62	M	O
ATOM	19911	OW0	WAT	M	65	-56.684	-2.070	-62.018	1.00	29.52	M	O
ATOM	19914	OW0	WAT	M	66	-18.811	6.119	18.486	1.00	56.61	M	O
ATOM	19917	OW0	WAT	M	67	9.110	3.564	-22.730	1.00	33.55	M	O
ATOM	19920	OW0	WAT	M	68	-63.429	-23.226	-65.669	1.00	43.76	M	O
ATOM	19923	OW0	WAT	M	69	-56.578	-0.932	-64.442	1.00	36.05	M	O
ATOM	19926	OW0	WAT	M	70	-37.982	36.318	3.832	1.00	36.56	M	O
ATOM	19929	OW0	WAT	M	71	-7.767	-9.832	-17.903	1.00	41.40	M	O
ATOM	19932	OW0	WAT	M	72	-41.822	16.779	2.235	1.00	34.20	M	O
ATOM	19935	OW0	WAT	M	73	34.957	1.883	-5.431	1.00	59.18	M	O
ATOM	19938	OW0	WAT	M	74	-19.863	11.555	15.342	1.00	20.99	M	O
ATOM	19941	OW0	WAT	M	75	-61.723	-8.822	-47.957	1.00	37.79	M	O
ATOM	19944	OW0	WAT	M	76	-19.812	1.521	-20.578	1.00	39.15	M	O
ATOM	19947	OW0	WAT	M	77	-13.329	-14.539	-45.719	1.00	38.21	M	O
ATOM	19950	OW0	WAT	M	78	-29.035	5.515	13.853	1.00	39.19	M	O
ATOM	19953	OW0	WAT	M	79	-25.238	-13.014	-28.178	1.00	43.61	M	O
ATOM	19956	OW0	WAT	M	80	7.152	18.842	-19.277	1.00	54.53	M	O
ATOM	19959	OW0	WAT	M	81	-1.108	10.935	-6.362	1.00	31.08	M	O
ATOM	19962	OW0	WAT	M	82	20.727	22.990	-30.224	1.00	35.25	M	O
ATOM	19965	OW0	WAT	M	83	-45.673	17.700	14.282	1.00	30.91	M	O
ATOM	19968	OW0	WAT	M	84	-17.975	10.870	13.517	1.00	27.57	M	O
ATOM	19971	OW0	WAT	M	85	-53.019	-3.827	-53.802	1.00	27.84	M	O
ATOM	19974	OW0	WAT	M	86	16.236	12.599	-16.079	1.00	38.59	M	O
ATOM	19977	OW0	WAT	M	87	3.302	-1.686	-25.486	1.00	33.60	M	O
ATOM	19980	OW0	WAT	M	88	-51.936	0.920	-58.566	1.00	40.28	M	O
ATOM	19983	OW0	WAT	M	89	-64.404	-8.835	-57.977	1.00	37.99	M	O
ATOM	19986	OW0	WAT	M	90	18.290	1.661	-34.980	1.00	29.35	M	O
ATOM	19989	OW0	WAT	M	91	17.374	0.930	-28.466	1.00	33.61	M	O
ATOM	19992	OW0	WAT	M	93	-33.916	-3.562	-45.793	1.00	44.35	M	O
ATOM	19995	OW0	WAT	M	94	-16.425	9.234	14.820	1.00	44.20	M	O
ATOM	19998	OW0	WAT	M	95	-19.309	-6.036	-31.256	1.00	39.52	M	O
ATOM	20001	OW0	WAT	M	96	5.823	26.633	-26.108	1.00	45.15	M	O
ATOM	20004	OW0	WAT	M	97	-39.869	14.202	12.233	1.00	33.18	M	O
ATOM	20007	OW0	WAT	M	98	-36.397	9.665	32.485	1.00	33.58	M	O
ATOM	20010	OW0	WAT	M	99	-42.535	-23.924	-48.682	1.00	38.72	M	O
ATOM	20013	OW0	WAT	M	100	8.965	0.856	-20.335	1.00	40.02	M	O
ATOM	20016	OW0	WAT	M	101	-41.054	-17.255	-44.484	1.00	53.61	M	O
ATOM	20019	OW0	WAT	M	102	-12.031	13.731	-19.130	1.00	30.01	M	O
ATOM	20022	OW0	WAT	M	103	-14.829	19.769	-5.945	1.00	30.31	M	O
ATOM	20025	OW0	WAT	M	104	-45.195	18.395	16.813	1.00	41.55	M	O
ATOM	20028	OW0	WAT	M	105	-26.193	5.835	-56.398	1.00	35.25	M	O
ATOM	20031	OW0	WAT	M	106	-19.232	20.545	17.504	1.00	51.18	M	O
ATOM	20034	OW0	WAT	M	107	1.313	-1.920	-15.907	1.00	35.52	M	O
ATOM	20037	OW0	WAT	M	108	-37.456	-0.672	-52.644	1.00	59.97	M	O
ATOM	20040	OW0	WAT	M	109	-43.541	-17.665	-61.769	1.00	33.98	M	O
ATOM	20043	OW0	WAT	M	110	-49.574	16.868	26.087	1.00	31.52	M	O
ATOM	20046	OW0	WAT	M	111	-23.554	6.858	-10.383	1.00	35.63	M	O
ATOM	20049	OW0	WAT	M	112	-37.975	-16.683	-46.818	1.00	32.08	M	O
ATOM	20052	OW0	WAT	M	113	-23.932	7.112	-7.203	1.00	37.47	M	O
ATOM	20055	OW0	WAT	M	114	-14.979	-7.848	-30.901	1.00	28.92	M	O
ATOM	20058	OW0	WAT	M	115	-28.837	-3.769	-45.797	1.00	44.96	M	O
ATOM	20061	OW0	WAT	M	116	-50.356	-28.925	-66.409	1.00	42.45	M	O
ATOM	20064	OW0	WAT	M	117	-28.888	9.122	-66.969	1.00	39.47	M	O
ATOM	20067	OW0	WAT	M	118	33.501	7.357	-40.098	1.00	45.31	M	O
ATOM	20070	OW0	WAT	M	119	-4.425	22.757	-23.255	1.00	32.08	M	O
ATOM	20073	OW0	WAT	M	120	-3.213	32.620	-7.259	1.00	39.79	M	O
ATOM	20076	OW0	WAT	M	121	-18.342	2.158	12.409	1.00	49.51	M	O
ATOM	20079	OW0	WAT	M	122	-24.124	17.186	-7.029	1.00	33.90	M	O
ATOM	20082	OW0	WAT	M	123	-58.994	-29.050	-61.007	1.00	37.08	M	O
ATOM	20085	OW0	WAT	M	124	10.030	19.817	-20.243	1.00	50.62	M	O
ATOM	20088	OW0	WAT	M	125	-47.255	-3.464	-53.069	1.00	41.31	M	O
ATOM	20091	OW0	WAT	M	126	27.250	22.243	-33.328	1.00	35.86	M	O
ATOM	20094	OW0	WAT	M	127	-16.794	-8.250	-26.920	1.00	40.45	M	O
ATOM	20097	OW0	WAT	M	128	-30.903	34.074	22.462	1.00	45.34	M	O
ATOM	20100	OW0	WAT	M	129	-48.251	28.786	26.131	1.00	42.83	M	O
ATOM	20103	OW0	WAT	M	130	-15.026	-24.898	-20.593	1.00	44.85	M	O

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ATOM	20106	OW0	WAT	M	131	-48.220	-13.957	-68.169	1.00	28.45	M	O
ATOM	20109	OW0	WAT	M	132	-6.097	-12.095	-26.261	1.00	34.29	M	O
ATOM	20112	OW0	WAT	M	133	30.091	-0.876	-25.288	1.00	46.76	M	O
ATOM	20115	OW0	WAT	M	134	-8.477	27.597	-10.094	1.00	42.55	M	O
ATOM	20118	OW0	WAT	M	135	-47.229	-18.234	-42.048	1.00	37.15	M	O
ATOM	20121	OW0	WAT	M	136	44.196	-2.873	-25.182	1.00	65.60	M	O
ATOM	20124	OW0	WAT	M	137	-54.351	-0.743	-69.427	1.00	33.20	M	O
ATOM	20127	OW0	WAT	M	138	-56.242	-5.531	-51.516	1.00	29.29	M	O
ATOM	20130	OW0	WAT	M	139	-11.273	21.269	20.386	1.00	54.11	M	O
ATOM	20133	OW0	WAT	M	140	-32.158	-17.946	-43.434	1.00	44.49	M	O
ATOM	20136	OW0	WAT	M	141	-64.018	-14.853	-70.071	1.00	46.21	M	O
ATOM	20139	OW0	WAT	M	142	-51.145	-3.152	-55.502	1.00	29.83	M	O
ATOM	20142	OW0	WAT	M	143	-52.231	-16.329	-47.452	1.00	35.57	M	O
ATOM	20145	OW0	WAT	M	144	-77.220	9.950	-86.384	1.00	54.03	M	O
ATOM	20148	OW0	WAT	M	145	21.191	-5.947	-8.236	1.00	41.30	M	O
ATOM	20151	OW0	WAT	M	146	20.674	-7.719	-37.116	1.00	47.56	M	O
ATOM	20154	OW0	WAT	M	147	18.038	2.707	-9.962	1.00	39.44	M	O
ATOM	20157	OW0	WAT	M	148	-40.492	-13.872	-43.073	1.00	41.26	M	O
ATOM	20160	OW	WAT	M	149	-36.101	-4.809	-19.665	1.00	44.93	M	O
ATOM	20163	OW	WAT	M	150	0.404	-5.640	-9.261	1.00	36.59	M	O
ATOM	20166	OW	WAT	M	151	-47.856	-6.320	-50.032	1.00	49.64	M	O
ATOM	20169	OW	WAT	M	152	12.364	2.173	-15.663	1.00	40.03	M	O
ATOM	20172	OW	WAT	M	153	-66.525	0.268	-57.321	1.00	38.51	M	O
ATOM	20175	OW	WAT	M	154	4.562	-11.140	-33.091	1.00	45.53	M	O
ATOM	20178	OW	WAT	M	155	-42.096	-5.067	-37.148	1.00	43.55	M	O
ATOM	20181	OW	WAT	M	156	-24.551	3.519	-15.184	1.00	43.00	M	O
ATOM	20184	OW	WAT	M	157	13.711	-3.364	-12.760	1.00	37.73	M	O
ATOM	20187	OW	WAT	M	158	16.368	16.368	-30.240	1.00	41.16	M	O
ATOM	20190	OW	WAT	M	159	-47.305	24.586	4.890	1.00	43.93	M	O
ATOM	20193	OW	WAT	M	160	-1.509	8.828	-4.973	1.00	26.52	M	O
ATOM	20196	OW	WAT	M	161	-48.560	17.647	28.452	1.00	44.73	M	O
ATOM	20199	OW	WAT	M	162	-62.176	2.313	-58.927	1.00	45.21	M	O
ATOM	20202	OW	WAT	M	163	-25.013	28.118	6.717	1.00	46.71	M	O
ATOM	20205	OW	WAT	M	164	19.269	2.302	-27.360	1.00	24.19	M	O
ATOM	20208	OW	WAT	M	165	-36.375	18.726	-4.934	1.00	58.58	M	O
ATOM	20211	OW	WAT	M	166	-33.696	-5.260	-57.400	1.00	34.73	M	O
ATOM	20214	OW	WAT	M	167	-40.529	-15.181	-55.251	1.00	47.19	M	O
ATOM	20217	OW	WAT	M	168	-9.018	7.126	4.815	1.00	26.55	M	O
ATOM	20220	OW	WAT	M	169	38.278	6.226	-34.703	1.00	35.73	M	O
ATOM	20223	OW	WAT	M	170	19.914	28.518	-16.239	1.00	35.62	M	O
ATOM	20226	OW	WAT	M	171	0.550	-2.228	-13.264	1.00	37.78	M	O
ATOM	20229	OW	WAT	M	172	-1.792	7.553	-28.851	1.00	43.24	M	O
ATOM	20232	OW	WAT	M	173	-40.052	1.555	-50.693	1.00	43.29	M	O
ATOM	20235	OW	WAT	M	174	-12.187	11.272	-23.326	1.00	42.77	M	O
ATOM	20238	OW	WAT	M	175	-23.147	15.469	-8.448	1.00	32.11	M	O
ATOM	20241	OW	WAT	M	176	30.243	26.751	-27.375	1.00	44.75	M	O
ATOM	20244	OW	WAT	M	177	-33.251	7.129	-49.061	1.00	34.95	M	O
ATOM	20247	OW	WAT	M	178	32.656	24.012	-28.413	1.00	32.40	M	O
ATOM	20250	OW	WAT	M	179	-65.605	-20.485	-69.126	1.00	49.49	M	O
ATOM	20253	OW	WAT	M	180	-40.423	8.167	8.134	1.00	51.86	M	O
ATOM	20256	OW	WAT	M	181	-15.464	-11.444	-21.585	1.00	47.33	M	O
ATOM	20259	OW	WAT	M	182	2.451	-2.709	-11.420	1.00	43.83	M	O
ATOM	20262	OW	WAT	M	183	-25.546	24.110	-6.960	1.00	41.95	M	O
ATOM	20265	OW	WAT	M	184	-38.504	31.345	32.264	1.00	45.43	M	O
ATOM	20268	OW	WAT	M	185	-39.165	5.129	1.925	1.00	37.64	M	O
ATOM	20271	OW	WAT	M	186	-24.835	4.490	34.437	1.00	48.71	M	O
ATOM	20274	OW	WAT	M	187	-42.293	-24.390	-58.050	1.00	41.89	M	O
ATOM	20277	OW	WAT	M	188	-41.672	8.078	-71.207	1.00	44.48	M	O
ATOM	20280	OW	WAT	M	189	-40.235	-10.130	-58.774	1.00	32.72	M	O
ATOM	20283	OW	WAT	M	190	-22.298	-0.407	-15.509	1.00	44.26	M	O
ATOM	20286	OW	WAT	M	191	-36.695	7.918	-2.290	1.00	41.96	M	O
ATOM	20289	OW	WAT	M	192	-15.993	-28.731	-40.944	1.00	42.17	M	O
ATOM	20292	OW	WAT	M	193	-60.691	-15.702	-47.899	1.00	48.79	M	O
ATOM	20295	OW	WAT	M	194	-7.677	-2.532	-33.616	1.00	38.58	M	O
ATOM	20298	OW	WAT	M	195	-50.530	10.021	-67.323	1.00	39.55	M	O
ATOM	20301	OW	WAT	M	196	-19.058	-17.104	-48.455	1.00	39.05	M	O
ATOM	20304	OW	WAT	M	197	-67.887	-19.888	-63.511	1.00	45.06	M	O
ATOM	20307	OW	WAT	M	198	-10.034	-8.599	-37.501	1.00	37.71	M	O

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ATOM	20310	OW	WAT	M	199	-60.619	-10.534	-75.220	1.00	41.76	M	O
ATOM	20313	OW	WAT	M	200	-57.798	-26.874	-49.390	1.00	52.99	M	O
ATOM	20316	OW	WAT	M	201	-48.232	-21.404	-30.457	1.00	43.45	M	O
ATOM	20319	OW	WAT	M	202	-49.299	10.476	24.480	1.00	39.95	M	O
ATOM	20322	OW	WAT	M	203	23.076	30.637	-22.610	1.00	44.36	M	O
ATOM	20325	OW	WAT	M	204	7.670	-9.143	-11.397	1.00	42.36	M	O
ATOM	20328	OW	WAT	M	205	-44.417	-13.640	-54.630	1.00	32.68	M	O
ATOM	20331	OW	WAT	M	206	-51.056	-15.278	-71.657	1.00	46.23	M	O
ATOM	20334	OW	WAT	M	207	-19.166	-0.866	-28.795	1.00	54.19	M	O
ATOM	20337	OW	WAT	M	208	-34.876	3.584	22.311	1.00	49.63	M	O
ATOM	20340	OW	WAT	M	209	-27.447	5.751	7.753	1.00	47.66	M	O
ATOM	20343	OW	WAT	M	210	-32.537	0.412	5.862	1.00	43.21	M	O
ATOM	20346	OW	WAT	M	211	20.997	6.581	-39.935	1.00	36.35	M	O
ATOM	20349	OW	WAT	M	212	-18.490	29.455	-20.127	1.00	44.07	M	O
ATOM	20352	OW	WAT	M	213	-49.488	8.766	-72.730	1.00	50.63	M	O
ATOM	20355	OW	WAT	M	214	-29.948	-9.863	-52.454	1.00	42.81	M	O
ATOM	20358	OW	WAT	M	215	-32.679	-11.868	-51.105	1.00	43.01	M	O
ATOM	20361	OW	WAT	M	216	-34.007	-5.817	-45.150	1.00	39.56	M	O
ATOM	20364	OW	WAT	M	217	-40.472	3.212	-56.364	1.00	34.12	M	O
ATOM	20367	OW	WAT	M	218	-10.948	21.444	-1.107	1.00	38.08	M	O
ATOM	20370	OW	WAT	M	219	0.378	7.134	-17.753	1.00	40.40	M	O
ATOM	20373	OW	WAT	M	220	-33.966	-2.262	-73.773	1.00	40.20	M	O
ATOM	20376	OW	WAT	M	221	-78.319	14.018	-94.270	1.00	56.48	M	O
ATOM	20379	OW	WAT	M	222	-27.405	0.184	3.530	1.00	35.87	M	O
ATOM	20382	OW	WAT	M	223	14.124	13.977	-13.837	1.00	31.89	M	O
ATOM	20385	OW	WAT	M	224	-41.206	2.393	-76.952	1.00	40.56	M	O
ATOM	20388	OW	WAT	M	225	24.887	-10.898	-40.213	1.00	44.47	M	O
ATOM	20391	OW	WAT	M	226	-43.732	17.169	3.248	1.00	54.35	M	O
ATOM	20394	OW	WAT	M	227	-31.852	33.968	11.042	1.00	47.06	M	O
ATOM	20397	OW	WAT	M	228	-38.345	-20.706	-23.200	1.00	53.95	M	O
ATOM	20400	OW	WAT	M	229	-55.298	3.976	-68.786	1.00	31.49	M	O
ATOM	20403	OW	WAT	M	230	17.633	-0.325	-31.020	1.00	41.65	M	O
ATOM	20406	OW	WAT	M	231	-72.629	6.333	-74.856	1.00	45.83	M	O
ATOM	20409	OW	WAT	M	232	-23.586	6.468	-17.039	1.00	32.63	M	O
ATOM	20412	OW	WAT	M	233	-17.675	-5.414	-35.280	1.00	43.67	M	O
ATOM	20415	OW	WAT	M	234	-30.223	15.948	-4.886	1.00	40.87	M	O
ATOM	20418	OW	WAT	M	235	29.530	-6.556	-18.684	1.00	48.83	M	O
ATOM	20421	OW	WAT	M	236	-43.897	19.551	19.673	1.00	38.78	M	O
ATOM	20424	OW	WAT	M	237	-40.872	11.676	-59.087	1.00	46.09	M	O
ATOM	20427	OW	WAT	M	238	-40.633	5.880	-71.412	1.00	39.16	M	O
ATOM	20430	OW	WAT	M	239	-28.261	7.474	-2.116	1.00	38.58	M	O
ATOM	20433	OW	WAT	M	240	-78.546	-2.935	-67.304	1.00	48.09	M	O
ATOM	20436	OW	WAT	M	241	32.784	-1.582	-11.919	1.00	52.57	M	O
ATOM	20439	OW	WAT	M	242	-34.068	0.493	-34.524	1.00	47.02	M	O
ATOM	20442	OW	WAT	M	243	-52.441	-33.340	-49.131	1.00	38.72	M	O
ATOM	20445	OW	WAT	M	244	7.482	36.315	-13.735	1.00	42.31	M	O
ATOM	20448	OW	WAT	M	245	-13.986	19.404	-22.198	1.00	38.80	M	O
ATOM	20451	OW	WAT	M	246	-33.887	4.772	26.254	1.00	51.11	M	O
ATOM	20454	OW	WAT	M	247	-45.413	10.056	-66.121	1.00	49.81	M	O
ATOM	20457	OW	WAT	M	248	-16.400	11.455	-22.590	1.00	41.97	M	O
ATOM	20460	OW	WAT	M	249	23.512	13.193	-14.929	1.00	45.93	M	O
ATOM	20463	OW	WAT	M	250	17.815	27.921	-14.688	1.00	31.37	M	O
ATOM	20466	OW	WAT	M	251	-30.828	-25.574	-49.466	1.00	45.31	M	O
ATOM	20469	OW	WAT	M	252	-72.635	6.628	-62.158	1.00	40.26	M	O
ATOM	20472	OW	WAT	M	253	-39.364	32.072	21.510	1.00	35.72	M	O
ATOM	20475	OW	WAT	M	254	14.742	8.901	-17.465	1.00	54.28	M	O
ATOM	20478	OW	WAT	M	255	-8.828	-11.632	-40.110	1.00	41.76	M	O
ATOM	20481	OW	WAT	M	256	-54.330	-30.264	-46.070	1.00	46.98	M	O
ATOM	20484	OW	WAT	M	257	-39.400	1.833	-40.710	1.00	46.00	M	O
ATOM	20487	OW	WAT	M	258	-8.468	-4.808	-43.046	1.00	61.43	M	O
ATOM	20490	OW	WAT	M	259	-50.652	27.918	18.120	1.00	44.92	M	O
ATOM	20493	OW	WAT	M	260	0.644	31.751	-19.881	1.00	37.94	M	O
ATOM	20496	OW	WAT	M	261	-63.924	-2.264	-46.149	1.00	51.29	M	O
ATOM	20499	OW	WAT	M	262	-80.111	11.800	-94.259	1.00	54.73	M	O
ATOM	20502	OW	WAT	M	263	-66.588	-3.753	-46.057	1.00	54.14	M	O
ATOM	20505	OW	WAT	W	1	-18.650	-24.706	-46.790	1.00	52.98	W	O
ATOM	20508	OW	WAT	W	2	14.212	8.008	-34.289	1.00	40.97	W	O
ATOM	20511	OW	WAT	W	3	-71.659	15.787	-67.171	1.00	83.16	W	O

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ATOM	20514	OW	WAT	W	4	18.991	13.948	-35.562	1.00	44.13	W	O
ATOM	20517	OW	WAT	W	5	-80.750	19.086	-92.525	1.00	53.18	W	O
ATOM	20520	OW	WAT	W	6	-63.802	12.489	-78.236	1.00	47.79	W	O
ATOM	20523	OW	WAT	W	7	-32.816	-29.211	-38.814	1.00	31.83	W	O
ATOM	20526	OW	WAT	W	8	-16.878	-21.901	-43.107	1.00	41.50	W	O
ATOM	20529	OW	WAT	W	9	-23.985	1.126	28.393	1.00	43.31	W	O
ATOM	20532	OW	WAT	W	10	-0.267	2.930	-3.665	1.00	56.96	W	O
ATOM	20535	OW	WAT	W	11	-2.416	-13.003	-33.505	1.00	49.79	W	O
ATOM	20538	OW	WAT	W	12	-26.020	-23.652	-40.734	1.00	45.36	W	O
ATOM	20541	OW	WAT	W	13	-11.114	7.787	6.200	1.00	36.09	W	O
ATOM	20544	OW	WAT	W	14	-63.725	-18.214	-72.622	1.00	44.40	W	O
ATOM	20547	OW	WAT	W	15	36.358	10.061	-30.549	1.00	35.07	W	O
ATOM	20550	OW	WAT	W	16	21.410	-1.252	-41.576	1.00	41.56	W	O
ATOM	20553	OW	WAT	W	17	-8.769	34.774	-11.309	1.00	44.37	W	O
ATOM	20556	OW	WAT	W	18	-11.416	-4.646	-32.187	1.00	53.07	W	O
ATOM	20559	OW	WAT	W	19	-62.647	-23.258	-58.113	1.00	41.52	W	O
ATOM	20562	OW	WAT	W	20	-35.863	5.769	-49.624	1.00	46.92	W	O
ATOM	20565	OW	WAT	W	21	-33.612	10.645	-4.724	1.00	47.26	W	O
ATOM	20568	OW	WAT	W	22	-6.454	-8.419	-12.348	1.00	55.20	W	O
ATOM	20571	OW	WAT	W	23	-24.794	-0.792	7.732	1.00	41.49	W	O
ATOM	20574	OW	WAT	W	24	-27.161	3.952	-27.015	1.00	48.23	W	O
ATOM	20577	OW	WAT	W	25	-33.414	-31.513	-37.614	1.00	44.12	W	O
ATOM	20580	OW	WAT	W	26	-15.074	13.693	10.234	1.00	51.44	W	O
ATOM	20583	OW	WAT	W	27	-22.599	16.990	-15.039	1.00	40.98	W	O
ATOM	20586	OW	WAT	W	28	9.523	6.704	-28.424	1.00	46.54	W	O
ATOM	20589	OW	WAT	W	29	-83.314	26.507	-80.625	1.00	53.01	W	O
ATOM	20592	OW	WAT	W	30	-44.150	-1.635	-54.839	1.00	36.28	W	O
ATOM	20595	OW	WAT	W	31	-4.641	-11.254	-33.664	1.00	47.35	W	O
ATOM	20598	OW	WAT	W	32	-32.245	26.011	33.198	1.00	49.62	W	O
ATOM	20601	OW	WAT	W	33	-11.065	25.645	-7.032	1.00	32.23	W	O
ATOM	20604	OW	WAT	W	34	-21.148	24.067	3.149	1.00	45.81	W	O
ATOM	20607	OW	WAT	W	35	-49.520	-17.607	-47.737	1.00	36.50	W	O
ATOM	20610	OW	WAT	W	36	-31.425	12.357	-57.004	1.00	50.12	W	O
ATOM	20613	OW	WAT	W	37	32.817	12.986	-38.638	1.00	40.39	W	O
ATOM	20616	OW	WAT	W	38	-21.121	-30.765	-35.356	1.00	41.29	W	O
ATOM	20619	OW	WAT	W	39	-57.086	-18.468	-73.899	1.00	54.32	W	O
ATOM	20622	OW	WAT	W	40	-27.877	-18.428	-42.548	1.00	52.08	W	O
ATOM	20625	OW	WAT	W	41	-75.595	0.624	-57.248	1.00	53.05	W	O
ATOM	20628	OW	WAT	W	42	-67.633	6.652	-62.866	1.00	41.37	W	O
ATOM	20631	OW	WAT	W	43	15.128	20.585	-8.186	1.00	45.32	W	O
ATOM	20634	OW	WAT	W	44	-57.162	-3.567	-83.174	1.00	55.52	W	O
ATOM	20637	OW	WAT	W	45	-69.453	10.000	-75.560	1.00	53.16	W	O
ATOM	20640	OW	WAT	W	46	15.366	4.138	-26.649	1.00	50.32	W	O
ATOM	20643	OW	WAT	W	47	-22.585	2.805	9.475	1.00	47.10	W	O
ATOM	20646	OW	WAT	W	48	-23.313	1.604	20.977	1.00	43.04	W	O
ATOM	20649	OW	WAT	W	49	-32.763	36.030	23.045	1.00	52.32	W	O
ATOM	20652	OW	WAT	W	50	-47.114	12.452	32.975	1.00	49.61	W	O
ATOM	20655	OW	WAT	W	51	-39.198	-12.448	-57.689	1.00	46.95	W	O
ATOM	20658	OW	WAT	W	52	-35.660	3.155	10.626	1.00	44.00	W	O
ATOM	20661	OW	WAT	W	53	19.851	12.608	-10.868	1.00	52.03	W	O
ATOM	20664	OW	WAT	W	54	-21.186	11.027	29.892	1.00	53.09	W	O
ATOM	20667	OW	WAT	W	55	22.199	-10.344	-39.699	1.00	48.04	W	O
ATOM	20670	OW	WAT	W	56	-16.626	-17.979	-20.506	1.00	51.87	W	O
ATOM	20673	OW	WAT	W	57	-53.691	-20.060	-77.553	1.00	39.79	W	O
ATOM	20676	OW	WAT	W	58	-45.883	-0.267	-53.476	1.00	46.75	W	O
ATOM	20679	OW	WAT	W	59	-53.421	0.456	-55.389	1.00	38.84	W	O
ATOM	20682	OW	WAT	W	60	-7.552	6.378	-28.567	1.00	52.97	W	O
ATOM	20685	OW	WAT	W	61	7.520	-13.478	-29.555	1.00	48.30	W	O
ATOM	20688	OW	WAT	W	62	-25.789	-3.244	-57.626	1.00	49.42	W	O
ATOM	20691	OW	WAT	W	63	4.831	-15.271	-27.469	1.00	42.72	W	O
ATOM	20694	OW	WAT	W	64	-43.424	6.810	20.975	1.00	49.76	W	O
ATOM	20697	OW	WAT	W	65	22.685	8.896	-39.495	1.00	44.21	W	O
ATOM	20700	OW	WAT	W	66	-76.680	-2.683	-61.561	1.00	43.77	W	O
ATOM	20703	OW	WAT	W	67	-4.983	-11.952	-18.184	1.00	52.25	W	O
ATOM	20706	OW	WAT	W	68	-25.852	-0.017	27.207	1.00	39.78	W	O
ATOM	20709	OW	WAT	W	69	-27.109	22.289	-11.700	1.00	50.77	W	O
ATOM	20712	OW	WAT	W	70	-44.672	0.142	-82.184	1.00	37.71	W	O
ATOM	20715	OW	WAT	W	71	3.536	8.356	-16.461	1.00	53.64	W	O

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ATOM	20718	OW	WAT	W	72	-51.995	14.726	30.299	1.00	55.20	W	O
ATOM	20721	OW	WAT	W	73	-50.538	-31.362	-45.014	1.00	51.14	W	O
ATOM	20724	OW	WAT	W	74	-40.068	-14.833	-23.935	1.00	48.95	W	O
ATOM	20727	OW	WAT	W	75	-31.128	-16.292	-41.631	1.00	48.24	W	O
ATOM	20730	OW	WAT	W	76	-28.610	5.991	-26.779	1.00	48.38	W	O
ATOM	20733	OW	WAT	W	77	-47.633	-15.661	-47.480	1.00	41.96	W	O
ATOM	20736	OW	WAT	W	78	-12.287	5.350	6.267	1.00	29.94	W	O
ATOM	20739	OW	WAT	W	79	9.511	-15.420	-28.862	1.00	39.05	W	O
ATOM	20742	OW	WAT	W	80	-12.205	-7.558	-33.715	1.00	46.15	W	O
ATOM	20745	OW	WAT	W	81	-20.092	13.331	30.154	1.00	51.96	W	O
ATOM	20748	OW	WAT	W	82	-7.643	-10.370	-9.140	1.00	54.79	W	O

END

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Appendix 1B: Structural coordinates cyno factor D : Fab

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REMARK   3
REMARK   3 REFINEMENT.
REMARK   3   PROGRAM     : REFMAC 5.2.0019
REMARK   3   AUTHORS     : MURSHUDOV,VAGIN,DODSON
REMARK   3
REMARK   3    REFINEMENT TARGET : MAXIMUM LIKELIHOOD
REMARK   3
REMARK   3  DATA USED IN REFINEMENT.
REMARK   3   RESOLUTION RANGE HIGH (ANGSTROMS) :   2.10
REMARK   3   RESOLUTION RANGE LOW  (ANGSTROMS) :  20.00
REMARK   3   DATA CUTOFF            (SIGMA(F)) : NONE
REMARK   3   COMPLETENESS FOR RANGE        (%) :  91.51
REMARK   3   NUMBER OF REFLECTIONS             :  100140
REMARK   3
REMARK   3  FIT TO DATA USED IN REFINEMENT.
REMARK   3   CROSS-VALIDATION METHOD           : THROUGHOUT
REMARK   3   FREE R VALUE TEST SET SELECTION   : RANDOM
REMARK   3   R VALUE     (WORKING + TEST SET) : 0.21397
REMARK   3   R VALUE           (WORKING SET) :  0.21105
REMARK   3   FREE R VALUE                     :  0.26960
REMARK   3   FREE R VALUE TEST SET SIZE   (%) :  5.0
REMARK   3   FREE R VALUE TEST SET COUNT      :  5291
REMARK   3
REMARK   3  FIT IN THE HIGHEST RESOLUTION BIN.
REMARK   3   TOTAL NUMBER OF BINS USED           :      25
REMARK   3   BIN RESOLUTION RANGE HIGH           :    2.100
REMARK   3   BIN RESOLUTION RANGE LOW            :    2.143
REMARK   3   REFLECTION IN BIN     (WORKING SET) :     5661
REMARK   3   BIN COMPLETENESS (WORKING+TEST) (%) :    88.63
REMARK   3   BIN R VALUE           (WORKING SET) :    0.333
REMARK   3   BIN FREE R VALUE SET COUNT          :      295
REMARK   3   BIN FREE R VALUE                    :    0.404
REMARK   3
REMARK   3  NUMBER OF NON-HYDROGEN ATOMS USED IN REFINEMENT.
REMARK   3   ALL ATOMS                 :    10774
REMARK   3
REMARK   3  B VALUES.
REMARK   3   FROM WILSON PLOT           (A**2) : NULL
REMARK   3   MEAN B VALUE      (OVERALL, A**2) :  27.396
REMARK   3   OVERALL ANISOTROPIC B VALUE.
REMARK   3    B11 (A**2) :    -2.02
REMARK   3    B22 (A**2) :    -0.95
REMARK   3    B33 (A**2) :     1.58
REMARK   3    B12 (A**2) :     0.00
REMARK   3    B13 (A**2) :    -2.34
REMARK   3    B23 (A**2) :     0.00
REMARK   3
REMARK   3  ESTIMATED OVERALL COORDINATE ERROR.
REMARK   3   ESU BASED ON R VALUE                                (A):   0.202
REMARK   3   ESU BASED ON FREE R VALUE                           (A):   0.195
REMARK   3   ESU BASED ON MAXIMUM LIKELIHOOD                     (A):   0.177
REMARK   3   ESU FOR B VALUES BASED ON MAXIMUM LIKELIHOOD (A**2):  13.178
REMARK   3
REMARK   3 CORRELATION COEFFICIENTS.
REMARK   3   CORRELATION COEFFICIENT FO-FC      :   0.955
REMARK   3   CORRELATION COEFFICIENT FO-FC FREE :   0.926
REMARK   3
REMARK   3  RMS DEVIATIONS FROM IDEAL VALUES         COUNT    RMS    WEIGHT
REMARK   3   BOND LENGTHS REFINED ATOMS        (A): 10201 ; 0.010 ; 0.022
REMARK   3   BOND LENGTHS OTHERS               (A):  6856 ; 0.002 ; 0.020
REMARK   3   BOND ANGLES REFINED ATOMS   (DEGREES): 13877 ; 1.348 ; 1.964
REMARK   3   BOND ANGLES OTHERS          (DEGREES): 16745 ; 0.864 ; 3.004
REMARK   3   TORSION ANGLES, PERIOD 1    (DEGREES):  1303 ; 7.428 ; 5.000
REMARK   3   TORSION ANGLES, PERIOD 2    (DEGREES):   406 ;35.270 ;24.138
REMARK   3   TORSION ANGLES, PERIOD 3    (DEGREES):  1632 ;15.851 ;15.000
REMARK   3   TORSION ANGLES, PERIOD 4    (DEGREES):    58 ;16.188 ;15.000
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REMARK   3   CHIRAL-CENTER RESTRAINTS          (A**3):  1566 ; 0.076 ; 0.200
REMARK   3   GENERAL PLANES REFINED ATOMS        (A): 11335 ; 0.004 ; 0.020
REMARK   3   GENERAL PLANES OTHERS               (A):  1941 ; 0.001 ; 0.020
REMARK   3   NON-BONDED CONTACTS REFINED ATOMS   (A):  1766 ; 0.183 ; 0.200
REMARK   3   NON-BONDED CONTACTS OTHERS          (A):  7046 ; 0.196 ; 0.200
REMARK   3   NON-BONDED TORSION REFINED ATOMS    (A):  4699 ; 0.171 ; 0.200
REMARK   3   NON-BONDED TORSION OTHERS           (A):  5649 ; 0.085 ; 0.200
REMARK   3   H-BOND (X...Y) REFINED ATOMS        (A):   645 ; 0.189 ; 0.200
REMARK   3   POTENTIAL METAL-ION REFINED ATOMS   (A):     5 ; 0.096 ; 0.200
REMARK   3   SYMMETRY VDW REFINED ATOMS          (A):    26 ; 0.238 ; 0.200
REMARK   3   SYMMETRY VDW OTHERS                 (A):    43 ; 0.165 ; 0.200
REMARK   3   SYMMETRY H-BOND REFINED ATOMS       (A):    22 ; 0.225 ; 0.200
REMARK   3   SYMMETRY METAL-ION REFINED ATOMS    (A):     2 ; 0.347 ; 0.200
REMARK   3
REMARK   3  ISOTROPIC THERMAL FACTOR RESTRAINTS.      COUNT   RMS     WEIGHT
REMARK   3   MAIN-CHAIN BOND REFINED ATOMS  (A**2):  8346 ; 3.108 ; 2.500
REMARK   3   MAIN-CHAIN BOND OTHER ATOMS    (A**2):  2652 ; 0.650 ; 2.500
REMARK   3   MAIN-CHAIN ANGLE REFINED ATOMS (A**2): 10525 ; 3.958 ; 5.000
REMARK   3   SIDE-CHAIN BOND REFINED ATOMS  (A**2):  4285 ; 2.990 ; 2.500
REMARK   3   SIDE-CHAIN ANGLE REFINED ATOMS (A**2):  3352 ; 4.086 ; 5.000
REMARK   3
REMARK   3  NCS RESTRAINTS STATISTICS
REMARK   3   NUMBER OF DIFFERENT NCS GROUPS :   3
REMARK   3
REMARK   3  NCS GROUP NUMBER                 :   1
REMARK   3     CHAIN NAMES                   : A B
REMARK   3     NUMBER OF COMPONENTS NCS GROUP :    1
REMARK   3       COMPONENT C  SSSEQI  TO  C   SSSEQI   CODE
REMARK   3           1     A     16       A     243      6
REMARK   3           1     B     16       B     243      6
REMARK   3                   GROUP CHAIN         COUNT   RMS     WEIGHT
REMARK   3   LOOSE POSITIONAL   1    A    (A):   2939 ;  0.53 ;  5.00
REMARK   3   LOOSE THERMAL      1    A (A**2):   2939 ;  4.08 ; 10.00
REMARK   3
REMARK   3  NCS GROUP NUMBER                 :   2
REMARK   3     CHAIN NAMES                   : L D
REMARK   3     NUMBER OF COMPONENTS NCS GROUP :    2
REMARK   3       COMPONENT C  SSSEQI  TO  C   SSSEQI   CODE
REMARK   3           1     L      1       L     109      6
REMARK   3           1     D      1       D     109      6
REMARK   3           2     L    110       L     214      6
REMARK   3           2     D    110       D     214      6
REMARK   3                   GROUP CHAIN         COUNT   RMS     WEIGHT
REMARK   3   LOOSE POSITIONAL   2    L    (A):   2731 ;  0.44 ;  5.00
REMARK   3   LOOSE THERMAL      2    L (A**2):   2731 ;  2.30 ; 10.00
REMARK   3
REMARK   3  NCS GROUP NUMBER                 :   3
REMARK   3     CHAIN NAMES                   : H E
REMARK   3     NUMBER OF COMPONENTS NCS GROUP :    1
REMARK   3       COMPONENT C  SSSEQI  TO  C   SSSEQI   CODE
REMARK   3           1     H      1       H     120      6
REMARK   3           1     E      1       E     120      6
REMARK   3                   GROUP CHAIN         COUNT   RMS     WEIGHT
REMARK   3   LOOSE POSITIONAL   3    H    (A):   1473 ;  0.29 ;  5.00
REMARK   3   LOOSE THERMAL      3    H (A**2):   1473 ;  2.35 ; 10.00
REMARK   3
REMARK   3
REMARK   3  TLS DETAILS
REMARK   3   NUMBER OF TLS GROUPS  :    1
REMARK   3   ATOM RECORD CONTAINS RESIDUAL B FACTORS ONLY
REMARK   3
REMARK   3   TLS GROUP :     1
REMARK   3    NUMBER OF COMPONENTS GROUP :   10
REMARK   3    COMPONENTS        C SSSEQI   TO  C SSSEQI
REMARK   3    RESIDUE RANGE :   A    16        A   243
REMARK   3    RESIDUE RANGE :   L     1        L   109
REMARK   3    RESIDUE RANGE :   L   110        L   214
REMARK   3    RESIDUE RANGE :   H     1        H   120
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REMARK   3     RESIDUE RANGE :   H   121         H   224
REMARK   3     RESIDUE RANGE :   B    16         B   243
REMARK   3     RESIDUE RANGE :   D     1         D   109
REMARK   3     RESIDUE RANGE :   D   110         D   214
REMARK   3     RESIDUE RANGE :   E     1         E   120
REMARK   3     RESIDUE RANGE :   E   121         E   224
REMARK   3     ORIGIN FOR THE GROUP (A):  26.7721 -32.1960 -51.5126
REMARK   3     T TENSOR
REMARK   3       T11:  -0.1168 T22:  -0.1381
REMARK   3       T33:  -0.1325 T12:   0.0139
REMARK   3       T13:  -0.0040 T23:  -0.0132
REMARK   3     L TENSOR
REMARK   3       L11:   0.5831 L22:   0.5482
REMARK   3       L33:   0.4061 L12:  -0.2108
REMARK   3       L13:   0.1924 L23:  -0.0152
REMARK   3     S TENSOR
REMARK   3       S11:  -0.0559 S12:  -0.1498 S13:   0.0388
REMARK   3       S21:   0.1239 S22:   0.0611 S23:  -0.0323
REMARK   3       S31:   0.0494 S32:  -0.0124 S33:  -0.0052
REMARK   3
REMARK   3
REMARK   3   BULK SOLVENT MODELLING.
REMARK   3    METHOD USED :  MASK
REMARK   3    PARAMETERS FOR MASK CALCULATION
REMARK   3    VDW PROBE RADIUS   :   1.40
REMARK   3    ION PROBE RADIUS   :   0.80
REMARK   3    SHRINKAGE RADIUS   :   0.80
REMARK   3
REMARK   3   OTHER REFINEMENT REMARKS:
REMARK   3   HYDROGENS HAVE BEEN ADDED IN THE RIDING POSITIONS
REMARK   3
SSBOND   1 CYS A   41    CYS A   57
SSBOND   2 CYS A  138    CYS A  204
SSBOND   3 CYS A  169    CYS A  185
SSBOND   4 CYS A  194    CYS A  219
SSBOND   5 CYS L   23    CYS L   88
SSBOND   6 CYS L  134    CYS L  194
SSBOND   7 CYS H   22    CYS H   96
SSBOND   8 CYS H  148    CYS H  204
SSBOND   9 CYS B   41    CYS B   57
SSBOND  10 CYS B  138    CYS B  204
SSBOND  11 CYS B  169    CYS B  185
SSBOND  12 CYS B  194    CYS B  219
SSBOND  13 CYS D   23    CYS D   88
SSBOND  14 CYS D  134    CYS D  194
SSBOND  15 CYS E   22    CYS E   96
SSBOND  16 CYS E  148    CYS E  204
CISPEP   1 SER L    7    PRO L    8                    0.00
CISPEP   2 LEU L   94    PRO L   95                    0.00
CISPEP   3 TYR L  140    PRO L  141                    0.00
CISPEP   4 GLU H   99    GLY H  100                    0.00
CISPEP   5 PHE H  154    PRO H  155                    0.00
CISPEP   6 GLU H  156    PRO H  157                    0.00
CISPEP   7 GLU E   99    GLY E  100                    0.00
LINK             SER E 136                 GLY E 142                 gap
CISPEP   8 PHE E  154    PRO E  155                    0.00
CISPEP   9 GLU E  156    PRO E  157                    0.00
LINK         C   GLY H 101                 N   VAL H 108                 TRANS
LINK         C   GLY E 101                 N   VAL E 108                 TRANS
CISPEP  10 SER D    7    PRO D    8                    0.00
CISPEP  11 LEU D   94    PRO D   95                    0.00
CISPEP  12 TYR D  140    PRO D  141                    0.00
CRYST1  182.205   80.673  142.575  90.00 107.27  90.00 C 1 2 1
SCALE1      0.005488  0.000000  0.001706        0.00000
SCALE2      0.000000  0.012396  0.000000        0.00000
SCALE3      0.000000  0.000000  0.007345        0.00000
ATOM      1  N   ILE A  16     -12.477 -20.126 -72.065  1.00 26.11      A    N
ATOM      2  CA  ILE A  16     -13.046 -20.518 -70.743  1.00 23.49      A    C
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ATOM	4	CB	ILE	A	16	-14.540	-20.163	-70.650	1.00	17.19	A C
ATOM	6	CG1	ILE	A	16	-14.756	-18.660	-70.832	1.00	16.04	A C
ATOM	9	CD1	ILE	A	16	-14.257	-17.844	-69.687	1.00	12.95	A C
ATOM	13	CG2	ILE	A	16	-15.131	-20.590	-69.291	1.00	18.24	A C
ATOM	17	C	ILE	A	16	-12.869	-22.019	-70.517	1.00	25.77	A C
ATOM	18	O	ILE	A	16	-13.363	-22.825	-71.302	1.00	30.65	A O
ATOM	22	N	LEU	A	17	-12.192	-22.388	-69.432	1.00	26.78	A N
ATOM	23	CA	LEU	A	17	-12.044	-23.792	-69.057	1.00	26.56	A C
ATOM	25	CB	LEU	A	17	-10.650	-24.075	-68.502	1.00	29.19	A C
ATOM	28	CG	LEU	A	17	-10.218	-25.538	-68.433	1.00	29.19	A C
ATOM	30	CD1	LEU	A	17	-9.804	-26.012	-69.827	1.00	30.15	A C
ATOM	34	CD2	LEU	A	17	-9.083	-25.733	-67.461	1.00	31.64	A C
ATOM	38	C	LEU	A	17	-13.076	-24.125	-68.002	1.00	25.50	A C
ATOM	39	O	LEU	A	17	-13.225	-23.388	-67.052	1.00	24.96	A O
ATOM	41	N	GLY	A	18	-13.779	-25.245	-68.171	1.00	27.34	A N
ATOM	42	CA	GLY	A	18	-14.694	-25.745	-67.150	1.00	26.28	A C
ATOM	45	C	GLY	A	18	-16.056	-25.127	-67.224	1.00	25.74	A C
ATOM	46	O	GLY	A	18	-16.859	-25.261	-66.294	1.00	27.40	A O
ATOM	48	N	GLY	A	19	-16.327	-24.459	-68.340	1.00	24.98	A N
ATOM	49	CA	GLY	A	19	-17.570	-23.750	-68.525	1.00	30.62	A C
ATOM	52	C	GLY	A	19	-18.585	-24.544	-69.326	1.00	34.86	A C
ATOM	53	O	GLY	A	19	-18.456	-25.763	-69.508	1.00	37.52	A O
ATOM	55	N	ARG	A	20	-19.609	-23.831	-69.780	1.00	33.69	A N
ATOM	56	CA	ARG	A	20	-20.627	-24.359	-70.680	1.00	31.69	A C
ATOM	58	CB	ARG	A	20	-21.893	-24.808	-69.914	1.00	35.24	A C
ATOM	61	CG	ARG	A	20	-22.318	-23.858	-68.817	1.00	40.28	A C
ATOM	64	CD	ARG	A	20	-23.727	-24.109	-68.232	1.00	41.93	A C
ATOM	67	NE	ARG	A	20	-23.986	-23.173	-67.119	1.00	44.05	A N
ATOM	69	CZ	ARG	A	20	-24.824	-22.126	-67.135	1.00	45.78	A C
ATOM	70	NH1	ARG	A	20	-25.567	-21.834	-68.207	1.00	48.14	A N
ATOM	73	NH2	ARG	A	20	-24.921	-21.352	-66.055	1.00	41.86	A N
ATOM	76	C	ARG	A	20	-20.942	-23.249	-71.674	1.00	26.68	A C
ATOM	77	O	ARG	A	20	-20.586	-22.072	-71.463	1.00	17.73	A O
ATOM	79	N	GLU	A	21	-21.597	-23.617	-72.764	1.00	26.61	A N
ATOM	80	CA	GLU	A	21	-22.067	-22.631	-73.722	1.00	27.09	A C
ATOM	82	CB	GLU	A	21	-22.765	-23.315	-74.889	1.00	28.01	A C
ATOM	85	CG	GLU	A	21	-23.000	-22.409	-76.067	1.00	28.48	A C
ATOM	88	CD	GLU	A	21	-23.779	-23.093	-77.146	1.00	29.03	A C
ATOM	89	OE1	GLU	A	21	-23.656	-24.329	-77.269	1.00	32.30	A O
ATOM	90	OE2	GLU	A	21	-24.515	-22.402	-77.867	1.00	26.79	A O
ATOM	91	C	GLU	A	21	-23.016	-21.614	-73.076	1.00	24.87	A C
ATOM	92	O	GLU	A	21	-23.990	-21.972	-72.416	1.00	24.39	A O
ATOM	94	N	ALA	A	22	-22.708	-20.340	-73.284	1.00	25.10	A N
ATOM	95	CA	ALA	A	22	-23.551	-19.253	-72.844	1.00	23.99	A C
ATOM	97	CB	ALA	A	22	-22.834	-17.920	-73.087	1.00	16.28	A C
ATOM	101	C	ALA	A	22	-24.882	-19.306	-73.604	1.00	24.75	A C
ATOM	102	O	ALA	A	22	-24.941	-19.783	-74.733	1.00	22.68	A O
ATOM	104	N	GLU	A	23	-25.962	-18.851	-72.976	1.00	27.04	A N
ATOM	105	CA	GLU	A	23	-27.212	-18.651	-73.694	1.00	27.93	A C
ATOM	107	CB	GLU	A	23	-28.322	-18.212	-72.749	1.00	32.84	A C
ATOM	110	CG	GLU	A	23	-28.932	-19.311	-71.901	1.00	37.53	A C
ATOM	113	CD	GLU	A	23	-29.887	-18.734	-70.868	1.00	42.31	A C
ATOM	114	OE1	GLU	A	23	-29.390	-18.099	-69.908	1.00	48.10	A O
ATOM	115	OE2	GLU	A	23	-31.128	-18.884	-71.027	1.00	48.38	A O
ATOM	116	C	GLU	A	23	-27.000	-17.576	-74.754	1.00	20.26	A C
ATOM	117	O	GLU	A	23	-26.403	-16.549	-74.480	1.00	13.10	A O
ATOM	119	N	ALA	A	24	-27.500	-17.805	-75.963	1.00	20.83	A N
ATOM	120	CA	ALA	A	24	-27.210	-16.906	-77.081	1.00	20.13	A C
ATOM	122	CB	ALA	A	24	-27.834	-17.438	-78.376	1.00	17.35	A C
ATOM	126	C	ALA	A	24	-27.720	-15.506	-76.769	1.00	21.16	A C
ATOM	127	O	ALA	A	24	-28.908	-15.311	-76.497	1.00	25.09	A O
ATOM	129	N	HIS	A	25	-26.808	-14.544	-76.790	1.00	19.39	A N
ATOM	130	CA	HIS	A	25	-27.113	-13.117	-76.625	1.00	17.07	A C
ATOM	132	CB	HIS	A	25	-28.096	-12.625	-77.691	1.00	17.98	A C
ATOM	135	CG	HIS	A	25	-27.824	-13.149	-79.066	1.00	14.73	A C
ATOM	136	ND1	HIS	A	25	-26.746	-12.740	-79.819	1.00	15.69	A N
ATOM	138	CE1	HIS	A	25	-26.758	-13.373	-80.978	1.00	15.54	A C
ATOM	140	NE2	HIS	A	25	-27.796	-14.184	-81.001	1.00	11.60	A N

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ATOM	142	CD2	HIS	A	25	-28.476	-14.069	-79.812	1.00	15.49	A	C
ATOM	144	C	HIS	A	25	-27.613	-12.718	-75.221	1.00	16.72	A	C
ATOM	145	O	HIS	A	25	-28.197	-11.668	-75.070	1.00	16.69	A	O
ATOM	147	N	ALA	A	26	-27.321	-13.539	-74.211	1.00	21.13	A	N
ATOM	148	CA	ALA	A	26	-27.677	-13.281	-72.811	1.00	19.73	A	C
ATOM	150	CB	ALA	A	26	-27.602	-14.570	-72.011	1.00	19.47	A	C
ATOM	154	C	ALA	A	26	-26.775	-12.252	-72.168	1.00	21.51	A	C
ATOM	155	O	ALA	A	26	-27.114	-11.700	-71.125	1.00	26.85	A	O
ATOM	157	N	ARG	A	27	-25.619	-12.034	-72.790	1.00	24.12	A	N
ATOM	158	CA	ARG	A	27	-24.625	-11.068	-72.379	1.00	23.20	A	C
ATOM	160	CB	ARG	A	27	-23.323	-11.791	-72.026	1.00	17.93	A	C
ATOM	163	CG	ARG	A	27	-23.484	-12.655	-70.806	1.00	18.21	A	C
ATOM	166	CD	ARG	A	27	-22.439	-13.693	-70.627	1.00	20.29	A	C
ATOM	169	NE	ARG	A	27	-22.757	-14.485	-69.440	1.00	20.11	A	N
ATOM	171	CZ	ARG	A	27	-23.645	-15.475	-69.409	1.00	17.77	A	C
ATOM	172	NH1	ARG	A	27	-24.301	-15.837	-70.503	1.00	16.54	A	N
ATOM	175	NH2	ARG	A	27	-23.866	-16.120	-68.280	1.00	17.12	A	N
ATOM	178	C	ARG	A	27	-24.389	-10.103	-73.536	1.00	23.34	A	C
ATOM	179	O	ARG	A	27	-23.391	-10.230	-74.242	1.00	21.56	A	O
ATOM	181	N	PRO	A	28	-25.312	-9.141	-73.730	1.00	19.52	A	N
ATOM	182	CA	PRO	A	28	-25.280	-8.288	-74.920	1.00	22.85	A	C
ATOM	184	CB	PRO	A	28	-26.629	-7.558	-74.875	1.00	19.57	A	C
ATOM	187	CG	PRO	A	28	-27.097	-7.652	-73.492	1.00	22.07	A	C
ATOM	190	CD	PRO	A	28	-26.445	-8.815	-72.842	1.00	22.42	A	C
ATOM	193	C	PRO	A	28	-24.112	-7.303	-74.965	1.00	22.68	A	C
ATOM	194	O	PRO	A	28	-23.897	-6.647	-75.983	1.00	20.78	A	O
ATOM	195	N	TYR	A	29	-23.370	-7.221	-73.868	1.00	19.66	A	N
ATOM	196	CA	TYR	A	29	-22.201	-6.365	-73.751	1.00	22.39	A	C
ATOM	198	CB	TYR	A	29	-22.025	-5.947	-72.287	1.00	23.79	A	C
ATOM	201	CG	TYR	A	29	-22.194	-7.088	-71.299	1.00	23.27	A	C
ATOM	202	CD1	TYR	A	29	-21.163	-7.999	-71.077	1.00	20.11	A	C
ATOM	204	CE1	TYR	A	29	-21.311	-9.030	-70.192	1.00	23.57	A	C
ATOM	206	CZ	TYR	A	29	-22.503	-9.171	-69.495	1.00	22.70	A	C
ATOM	207	OH	TYR	A	29	-22.645	-10.213	-68.609	1.00	25.66	A	O
ATOM	209	CE2	TYR	A	29	-23.555	-8.291	-69.696	1.00	25.48	A	C
ATOM	211	CD2	TYR	A	29	-23.394	-7.250	-70.591	1.00	26.17	A	C
ATOM	213	C	TYR	A	29	-20.938	-7.057	-74.240	1.00	20.10	A	C
ATOM	214	O	TYR	A	29	-19.912	-6.422	-74.407	1.00	20.87	A	O
ATOM	216	N	MET	A	30	-21.026	-8.362	-74.466	1.00	24.01	A	N
ATOM	217	CA	MET	A	30	-19.895	-9.168	-74.897	1.00	25.14	A	C
ATOM	219	CB	MET	A	30	-20.299	-10.638	-74.841	1.00	24.60	A	C
ATOM	222	CG	MET	A	30	-19.139	-11.562	-74.889	1.00	25.03	A	C
ATOM	225	SD	MET	A	30	-18.191	-11.497	-73.370	1.00	26.66	A	S
ATOM	226	CE	MET	A	30	-16.571	-11.678	-74.060	1.00	11.66	A	C
ATOM	230	C	MET	A	30	-19.398	-8.838	-76.310	1.00	26.55	A	C
ATOM	231	O	MET	A	30	-20.170	-8.872	-77.279	1.00	26.45	A	O
ATOM	233	N	ALA	A	31	-18.101	-8.548	-76.420	1.00	27.53	A	N
ATOM	234	CA	ALA	A	31	-17.483	-8.225	-77.690	1.00	27.28	A	C
ATOM	236	CB	ALA	A	31	-17.032	-6.756	-77.707	1.00	28.79	A	C
ATOM	240	C	ALA	A	31	-16.310	-9.161	-77.999	1.00	27.46	A	C
ATOM	241	O	ALA	A	31	-15.572	-9.598	-77.118	1.00	26.31	A	O
ATOM	243	N	SER	A	32	-16.174	-9.494	-79.272	1.00	25.49	A	N
ATOM	244	CA	SER	A	32	-15.004	-10.196	-79.762	1.00	28.86	A	C
ATOM	246	CB	SER	A	32	-15.434	-11.231	-80.809	1.00	32.20	A	C
ATOM	249	OG	SER	A	32	-14.335	-11.881	-81.401	1.00	34.63	A	O
ATOM	251	C	SER	A	32	-14.062	-9.170	-80.365	1.00	28.81	A	C
ATOM	252	O	SER	A	32	-14.405	-8.523	-81.349	1.00	22.90	A	O
ATOM	254	N	VAL	A	33	-12.893	-8.989	-79.760	1.00	32.95	A	N
ATOM	255	CA	VAL	A	33	-11.852	-8.149	-80.362	1.00	33.64	A	C
ATOM	257	CB	VAL	A	33	-10.922	-7.527	-79.297	1.00	30.76	A	C
ATOM	259	CG1	VAL	A	33	-9.813	-6.731	-79.945	1.00	30.92	A	C
ATOM	263	CG2	VAL	A	33	-11.723	-6.640	-78.353	1.00	25.56	A	C
ATOM	267	C	VAL	A	33	-11.076	-9.012	-81.354	1.00	33.39	A	C
ATOM	268	O	VAL	A	33	-10.466	-10.011	-80.977	1.00	25.22	A	O
ATOM	270	N	GLN	A	34	-11.144	-8.645	-82.633	1.00	38.86	A	N
ATOM	271	CA	GLN	A	34	-10.563	-9.453	-83.705	1.00	39.87	A	C
ATOM	273	CB	GLN	A	34	-11.635	-9.784	-84.746	1.00	40.71	A	C
ATOM	276	CG	GLN	A	34	-12.933	-10.328	-84.136	1.00	40.06	A	C

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ATOM	279	CD	GLN	A	34	-13.737	-11.166	-85.096	1.00	37.65	A	C
ATOM	280	OE1	GLN	A	34	-13.861	-10.830	-86.269	1.00	42.71	A	O
ATOM	281	NE2	GLN	A	34	-14.296	-12.264	-84.604	1.00	33.59	A	N
ATOM	284	C	GLN	A	34	-9.383	-8.741	-84.370	1.00	42.61	A	C
ATOM	285	O	GLN	A	34	-9.341	-7.505	-84.423	1.00	40.24	A	O
ATOM	287	N	VAL	A	35	-8.421	-9.529	-84.845	1.00	42.47	A	N
ATOM	288	CA	VAL	A	35	-7.338	-9.024	-85.694	1.00	45.56	A	C
ATOM	290	CB	VAL	A	35	-5.980	-9.057	-84.982	1.00	46.98	A	C
ATOM	292	CG1	VAL	A	35	-5.613	-10.482	-84.575	1.00	48.21	A	C
ATOM	296	CG2	VAL	A	35	-4.894	-8.437	-85.876	1.00	44.49	A	C
ATOM	300	C	VAL	A	35	-7.268	-9.850	-86.982	1.00	47.90	A	C
ATOM	301	O	VAL	A	35	-7.112	-11.076	-86.928	1.00	48.26	A	O
ATOM	303	N	ASN	A	36	-7.396	-9.176	-88.127	1.00	48.17	A	N
ATOM	304	CA	ASN	A	36	-7.474	-9.835	-89.445	1.00	49.82	A	C
ATOM	306	CB	ASN	A	36	-6.161	-10.583	-89.786	1.00	53.04	A	C
ATOM	309	CG	ASN	A	36	-4.923	-9.688	-89.702	1.00	56.29	A	C
ATOM	310	OD1	ASN	A	36	-4.959	-8.531	-90.113	1.00	58.52	A	O
ATOM	311	ND2	ASN	A	36	-3.823	-10.226	-89.164	1.00	56.41	A	N
ATOM	314	C	ASN	A	36	-8.683	-10.790	-89.559	1.00	51.64	A	C
ATOM	315	O	ASN	A	36	-8.595	-11.852	-90.189	1.00	54.05	A	O
ATOM	317	N	GLY	A	37	-9.803	-10.414	-88.939	1.00	48.62	A	N
ATOM	318	CA	GLY	A	37	-11.016	-11.234	-88.963	1.00	48.26	A	C
ATOM	321	C	GLY	A	37	-10.999	-12.526	-88.150	1.00	49.20	A	C
ATOM	322	O	GLY	A	37	-11.911	-13.348	-88.283	1.00	49.81	A	O
ATOM	324	N	GLU	A	38	-9.971	-12.712	-87.319	1.00	48.08	A	N
ATOM	325	CA	GLU	A	38	-9.888	-13.845	-86.386	1.00	48.05	A	C
ATOM	327	CB	GLU	A	38	-8.557	-14.599	-86.540	1.00	53.92	A	C
ATOM	330	CG	GLU	A	38	-8.082	-14.830	-87.985	1.00	61.22	A	C
ATOM	333	CD	GLU	A	38	-8.501	-16.174	-88.566	1.00	65.96	A	C
ATOM	334	OE1	GLU	A	38	-8.115	-17.219	-87.996	1.00	68.40	A	O
ATOM	335	OE2	GLU	A	38	-9.195	-16.181	-89.610	1.00	69.01	A	O
ATOM	336	C	GLU	A	38	-9.996	-13.297	-84.955	1.00	44.28	A	C
ATOM	337	O	GLU	A	38	-9.437	-12.243	-84.655	1.00	37.93	A	O
ATOM	339	N	HIS	A	39	-10.693	-14.028	-84.079	1.00	42.52	A	N
ATOM	340	CA	HIS	A	39	-10.841	-13.645	-82.670	1.00	39.36	A	C
ATOM	342	CB	HIS	A	39	-11.795	-14.598	-81.938	1.00	38.53	A	C
ATOM	345	CG	HIS	A	39	-11.840	-14.375	-80.457	1.00	36.59	A	C
ATOM	346	ND1	HIS	A	39	-12.725	-13.504	-79.863	1.00	33.32	A	N
ATOM	348	CE1	HIS	A	39	-12.530	-13.506	-78.556	1.00	33.53	A	C
ATOM	350	NE2	HIS	A	39	-11.523	-14.314	-78.284	1.00	30.08	A	N
ATOM	352	CD2	HIS	A	39	-11.079	-14.877	-79.455	1.00	34.04	A	C
ATOM	354	C	HIS	A	39	-9.509	-13.623	-81.928	1.00	34.93	A	C
ATOM	355	O	HIS	A	39	-8.760	-14.587	-81.971	1.00	32.86	A	O
ATOM	357	N	LEU	A	40	-9.243	-12.522	-81.222	1.00	34.95	A	N
ATOM	358	CA	LEU	A	40	-8.037	-12.372	-80.411	1.00	34.86	A	C
ATOM	360	CB	LEU	A	40	-7.268	-11.123	-80.847	1.00	36.35	A	C
ATOM	363	CG	LEU	A	40	-5.880	-10.907	-80.244	1.00	36.45	A	C
ATOM	365	CD1	LEU	A	40	-4.901	-11.960	-80.720	1.00	38.29	A	C
ATOM	369	CD2	LEU	A	40	-5.389	-9.500	-80.579	1.00	36.67	A	C
ATOM	373	C	LEU	A	40	-8.362	-12.287	-78.914	1.00	32.92	A	C
ATOM	374	O	LEU	A	40	-7.854	-13.063	-78.127	1.00	34.56	A	O
ATOM	376	N	CYS	A	41	-9.220	-11.346	-78.536	1.00	31.33	A	N
ATOM	377	CA	CYS	A	41	-9.496	-11.057	-77.132	1.00	29.57	A	C
ATOM	379	CB	CYS	A	41	-8.747	-9.785	-76.708	1.00	34.23	A	C
ATOM	382	SG	CYS	A	41	-6.979	-10.034	-76.272	1.00	42.24	A	S
ATOM	384	C	CYS	A	41	-10.983	-10.840	-76.923	1.00	30.66	A	C
ATOM	385	O	CYS	A	41	-11.738	-10.652	-77.871	1.00	29.93	A	O
ATOM	387	N	GLY	A	42	-11.390	-10.858	-75.665	1.00	28.56	A	N
ATOM	388	CA	GLY	A	42	-12.696	-10.425	-75.284	1.00	27.04	A	C
ATOM	391	C	GLY	A	42	-12.698	-8.924	-75.121	1.00	27.35	A	C
ATOM	392	O	GLY	A	42	-11.648	-8.288	-75.024	1.00	27.10	A	O
ATOM	394	N	GLY	A	43	-13.903	-8.375	-75.099	1.00	23.78	A	N
ATOM	395	CA	GLY	A	43	-14.143	-6.967	-74.839	1.00	23.82	A	C
ATOM	398	C	GLY	A	43	-15.529	-6.812	-74.250	1.00	23.52	A	C
ATOM	399	O	GLY	A	43	-16.335	-7.748	-74.270	1.00	23.58	A	O
ATOM	401	N	VAL	A	44	-15.805	-5.627	-73.725	1.00	25.38	A	N
ATOM	402	CA	VAL	A	44	-17.076	-5.346	-73.084	1.00	26.23	A	C
ATOM	404	CB	VAL	A	44	-16.995	-5.518	-71.536	1.00	26.22	A	C

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ATOM	406	CG1	VAL	A	44	-15.649	-5.085	-71.014	1.00	28.01	A C
ATOM	410	CG2	VAL	A	44	-18.118	-4.788	-70.837	1.00	25.18	A C
ATOM	414	C	VAL	A	44	-17.525	-3.952	-73.477	1.00	22.57	A C
ATOM	415	O	VAL	A	44	-16.788	-2.997	-73.308	1.00	28.52	A O
ATOM	417	N	LEU	A	45	-18.724	-3.863	-74.046	1.00	25.78	A N
ATOM	418	CA	LEU	A	45	-19.339	-2.579	-74.397	1.00	25.99	A C
ATOM	420	CB	LEU	A	45	-20.584	-2.772	-75.271	1.00	22.25	A C
ATOM	423	CG	LEU	A	45	-21.000	-1.599	-76.172	1.00	23.74	A C
ATOM	425	CD1	LEU	A	45	-19.997	-1.375	-77.298	1.00	21.58	A C
ATOM	429	CD2	LEU	A	45	-22.407	-1.807	-76.751	1.00	21.88	A C
ATOM	433	C	LEU	A	45	-19.702	-1.885	-73.103	1.00	27.07	A C
ATOM	434	O	LEU	A	45	-20.500	-2.394	-72.322	1.00	30.27	A O
ATOM	436	N	VAL	A	46	-19.054	-0.749	-72.871	1.00	29.71	A N
ATOM	437	CA	VAL	A	46	-19.270	0.078	-71.694	1.00	28.45	A C
ATOM	439	CB	VAL	A	46	-17.949	0.265	-70.885	1.00	25.81	A C
ATOM	441	CG1	VAL	A	46	-17.675	-0.969	-70.054	1.00	22.60	A C
ATOM	445	CG2	VAL	A	46	-16.779	0.581	-71.798	1.00	20.30	A C
ATOM	449	C	VAL	A	46	-19.893	1.430	-72.084	1.00	31.31	A C
ATOM	450	O	VAL	A	46	-20.444	2.145	-71.236	1.00	34.22	A O
ATOM	452	N	ALA	A	47	-19.820	1.767	-73.370	1.00	26.86	A N
ATOM	453	CA	ALA	A	47	-20.559	2.899	-73.921	1.00	30.42	A C
ATOM	455	CB	ALA	A	47	-19.698	4.166	-73.907	1.00	29.60	A C
ATOM	459	C	ALA	A	47	-20.970	2.546	-75.342	1.00	29.23	A C
ATOM	460	O	ALA	A	47	-20.506	1.558	-75.900	1.00	30.51	A O
ATOM	462	N	GLU	A	48	-21.805	3.374	-75.941	1.00	31.78	A N
ATOM	463	CA	GLU	A	48	-22.321	3.095	-77.274	1.00	34.71	A C
ATOM	465	CB	GLU	A	48	-23.372	4.127	-77.661	1.00	36.90	A C
ATOM	468	CG	GLU	A	48	-24.487	4.255	-76.641	1.00	39.94	A C
ATOM	471	CD	GLU	A	48	-25.745	4.857	-77.212	1.00	41.92	A C
ATOM	472	OE1	GLU	A	48	-26.812	4.679	-76.579	1.00	47.41	A O
ATOM	473	OE2	GLU	A	48	-25.675	5.497	-78.290	1.00	43.89	A O
ATOM	474	C	GLU	A	48	-21.241	3.019	-78.355	1.00	32.33	A C
ATOM	475	O	GLU	A	48	-21.418	2.299	-79.328	1.00	33.60	A O
ATOM	477	N	GLN	A	49	-20.142	3.758	-78.186	1.00	35.25	A N
ATOM	478	CA	GLN	A	49	-19.029	3.772	-79.153	1.00	36.15	A C
ATOM	480	CB	GLN	A	49	-18.803	5.208	-79.666	1.00	39.44	A C
ATOM	483	CG	GLN	A	49	-17.890	5.310	-80.903	1.00	39.74	A C
ATOM	486	CD	GLN	A	49	-18.178	6.526	-81.783	1.00	40.76	A C
ATOM	487	OE1	GLN	A	49	-18.921	7.435	-81.401	1.00	46.06	A O
ATOM	488	NE2	GLN	A	49	-17.585	6.541	-82.971	1.00	40.57	A N
ATOM	491	C	GLN	A	49	-17.719	3.220	-78.573	1.00	36.42	A C
ATOM	492	O	GLN	A	49	-16.665	3.298	-79.220	1.00	35.80	A O
ATOM	494	N	TRP	A	50	-17.782	2.642	-77.371	1.00	32.55	A N
ATOM	495	CA	TRP	A	50	-16.577	2.258	-76.645	1.00	31.91	A C
ATOM	497	CB	TRP	A	50	-16.313	3.260	-75.513	1.00	35.09	A C
ATOM	500	CG	TRP	A	50	-15.855	4.611	-76.007	1.00	33.91	A C
ATOM	501	CD1	TRP	A	50	-16.624	5.711	-76.197	1.00	35.87	A C
ATOM	503	NE1	TRP	A	50	-15.858	6.754	-76.659	1.00	35.92	A N
ATOM	505	CE2	TRP	A	50	-14.561	6.332	-76.783	1.00	32.97	A C
ATOM	506	CD2	TRP	A	50	-14.518	4.987	-76.380	1.00	34.37	A C
ATOM	507	CE3	TRP	A	50	-13.292	4.313	-76.414	1.00	35.44	A C
ATOM	509	CZ3	TRP	A	50	-12.157	5.001	-76.840	1.00	35.02	A C
ATOM	511	CH2	TRP	A	50	-12.232	6.345	-77.232	1.00	34.96	A C
ATOM	513	CZ2	TRP	A	50	-13.424	7.024	-77.214	1.00	36.37	A C
ATOM	515	C	TRP	A	50	-16.616	0.831	-76.098	1.00	28.60	A C
ATOM	516	O	TRP	A	50	-17.510	0.468	-75.334	1.00	25.01	A O
ATOM	518	N	VAL	A	51	-15.623	0.043	-76.507	1.00	30.32	A N
ATOM	519	CA	VAL	A	51	-15.398	-1.317	-76.027	1.00	28.53	A C
ATOM	521	CB	VAL	A	51	-15.270	-2.297	-77.219	1.00	28.90	A C
ATOM	523	CG1	VAL	A	51	-14.754	-3.669	-76.767	1.00	28.11	A C
ATOM	527	CG2	VAL	A	51	-16.590	-2.429	-77.935	1.00	29.99	A C
ATOM	531	C	VAL	A	51	-14.105	-1.363	-75.193	1.00	31.96	A C
ATOM	532	O	VAL	A	51	-13.021	-0.994	-75.668	1.00	31.84	A O
ATOM	534	N	LEU	A	52	-14.225	-1.832	-73.954	1.00	30.30	A N
ATOM	535	CA	LEU	A	52	-13.083	-1.973	-73.046	1.00	26.83	A C
ATOM	537	CB	LEU	A	52	-13.522	-1.658	-71.600	1.00	24.00	A C
ATOM	540	CG	LEU	A	52	-12.530	-1.785	-70.441	1.00	26.30	A C
ATOM	542	CD1	LEU	A	52	-11.362	-0.803	-70.561	1.00	27.73	A C

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ATOM	546	CD2	LEU	A	52	-13.244	-1.589	-69.126	1.00	23.19	A	C
ATOM	550	C	LEU	A	52	-12.512	-3.395	-73.169	1.00	24.16	A	C
ATOM	551	O	LEU	A	52	-13.255	-4.370	-73.144	1.00	24.61	A	O
ATOM	553	N	SER	A	53	-11.196	-3.499	-73.339	1.00	23.00	A	N
ATOM	554	CA	SER	A	53	-10.508	-4.781	-73.439	1.00	27.04	A	C
ATOM	556	CB	SER	A	53	-10.277	-5.155	-74.913	1.00	29.06	A	C
ATOM	559	OG	SER	A	53	-9.612	-6.410	-75.055	1.00	27.09	A	O
ATOM	561	C	SER	A	53	-9.198	-4.658	-72.645	1.00	28.69	A	C
ATOM	562	O	SER	A	53	-9.121	-3.836	-71.727	1.00	28.98	A	O
ATOM	564	N	ALA	A	54	-8.190	-5.465	-72.982	1.00	27.47	A	N
ATOM	565	CA	ALA	A	54	-6.909	-5.478	-72.266	1.00	31.99	A	C
ATOM	567	CB	ALA	A	54	-6.582	-6.904	-71.776	1.00	31.40	A	C
ATOM	571	C	ALA	A	54	-5.782	-4.945	-73.156	1.00	32.26	A	C
ATOM	572	O	ALA	A	54	-5.740	-5.233	-74.342	1.00	32.95	A	O
ATOM	574	N	ALA	A	55	-4.875	-4.181	-72.563	1.00	33.82	A	N
ATOM	575	CA	ALA	A	55	-3.795	-3.495	-73.283	1.00	39.01	A	C
ATOM	577	CB	ALA	A	55	-2.973	-2.624	-72.306	1.00	38.89	A	C
ATOM	581	C	ALA	A	55	-2.872	-4.428	-74.054	1.00	41.72	A	C
ATOM	582	O	ALA	A	55	-2.463	-4.105	-75.167	1.00	44.26	A	O
ATOM	584	N	HIS	A	56	-2.560	-5.584	-73.481	1.00	46.85	A	N
ATOM	585	CA	HIS	A	56	-1.685	-6.556	-74.146	1.00	50.67	A	C
ATOM	587	CB	HIS	A	56	-1.252	-7.649	-73.162	1.00	55.55	A	C
ATOM	590	CG	HIS	A	56	0.047	-8.305	-73.520	1.00	58.27	A	C
ATOM	591	ND1	HIS	A	56	1.241	-7.615	-73.572	1.00	63.43	A	N
ATOM	593	CE1	HIS	A	56	2.212	-8.444	-73.912	1.00	64.94	A	C
ATOM	595	NE2	HIS	A	56	1.692	-9.647	-74.083	1.00	66.19	A	N
ATOM	597	CD2	HIS	A	56	0.340	-9.588	-73.840	1.00	63.62	A	C
ATOM	599	C	HIS	A	56	-2.298	-7.193	-75.409	1.00	54.34	A	C
ATOM	600	O	HIS	A	56	-1.596	-7.865	-76.159	1.00	58.13	A	O
ATOM	602	N	CYS	A	57	-3.595	-6.990	-75.643	1.00	55.16	A	N
ATOM	603	CA	CYS	A	57	-4.241	-7.437	-76.881	1.00	54.80	A	C
ATOM	605	CB	CYS	A	57	-5.763	-7.332	-76.759	1.00	50.85	A	C
ATOM	608	SG	CYS	A	57	-6.464	-8.304	-75.389	1.00	48.06	A	S
ATOM	610	C	CYS	A	57	-3.764	-6.628	-78.088	1.00	56.94	A	C
ATOM	611	O	CYS	A	57	-3.619	-7.170	-79.177	1.00	57.62	A	O
ATOM	613	N	LEU	A	58	-3.526	-5.334	-77.883	1.00	61.49	A	N
ATOM	614	CA	LEU	A	58	-3.037	-4.447	-78.940	1.00	63.98	A	C
ATOM	616	CB	LEU	A	58	-3.175	-2.974	-78.517	1.00	63.85	A	C
ATOM	619	CG	LEU	A	58	-3.100	-1.892	-79.606	1.00	62.67	A	C
ATOM	621	CD1	LEU	A	58	-4.287	-1.962	-80.553	1.00	61.45	A	C
ATOM	625	CD2	LEU	A	58	-3.016	-0.498	-78.989	1.00	62.87	A	C
ATOM	629	C	LEU	A	58	-1.584	-4.771	-79.300	1.00	67.51	A	C
ATOM	630	O	LEU	A	58	-1.203	-4.674	-80.465	1.00	66.96	A	O
ATOM	632	N	GLU	A	59	-0.782	-5.151	-78.302	1.00	72.93	A	N
ATOM	633	CA	GLU	A	59	0.579	-5.641	-78.543	1.00	73.70	A	C
ATOM	635	CB	GLU	A	59	1.258	-6.076	-77.230	1.00	77.62	A	C
ATOM	638	CG	GLU	A	59	2.756	-6.449	-77.358	1.00	80.32	A	C
ATOM	641	CD	GLU	A	59	3.027	-7.951	-77.605	1.00	85.48	A	C
ATOM	642	OE1	GLU	A	59	2.771	-8.772	-76.695	1.00	87.61	A	O
ATOM	643	OE2	GLU	A	59	3.532	-8.310	-78.699	1.00	86.16	A	O
ATOM	644	C	GLU	A	59	0.536	-6.813	-79.522	1.00	74.77	A	C
ATOM	645	O	GLU	A	59	1.286	-6.843	-80.501	1.00	75.22	A	O
ATOM	647	N	ASP	A	60	-0.357	-7.766	-79.253	1.00	75.45	A	N
ATOM	648	CA	ASP	A	60	-0.469	-8.988	-80.057	1.00	75.68	A	C
ATOM	650	CB	ASP	A	60	-1.319	-10.038	-79.322	1.00	76.16	A	C
ATOM	653	CG	ASP	A	60	-0.607	-10.641	-78.115	1.00	76.05	A	C
ATOM	654	OD1	ASP	A	60	0.644	-10.628	-78.075	1.00	75.72	A	O
ATOM	655	OD2	ASP	A	60	-1.309	-11.145	-77.208	1.00	75.08	A	O
ATOM	656	C	ASP	A	60	-1.040	-8.761	-81.463	1.00	75.69	A	C
ATOM	657	O	ASP	A	60	-0.778	-9.556	-82.365	1.00	75.69	A	O
ATOM	659	N	ALA	A	61	-1.816	-7.691	-81.641	1.00	76.28	A	N
ATOM	660	CA	ALA	A	61	-2.439	-7.379	-82.933	1.00	76.49	A	C
ATOM	662	CB	ALA	A	61	-3.544	-6.344	-82.755	1.00	75.75	A	C
ATOM	666	C	ALA	A	61	-1.411	-6.883	-83.949	1.00	76.14	A	C
ATOM	667	O	ALA	A	61	-1.365	-7.368	-85.081	1.00	73.75	A	O
ATOM	669	N	ALA	A	62	-0.608	-5.902	-83.532	1.00	77.09	A	N
ATOM	670	CA	ALA	A	62	0.530	-5.407	-84.312	1.00	77.12	A	C
ATOM	672	CB	ALA	A	62	1.572	-6.530	-84.484	1.00	77.94	A	C

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ATOM	676	C	ALA	A	62	0.123	-4.804	-85.673	1.00	76.63	A	C
ATOM	677	O	ALA	A	62	-0.594	-3.798	-85.721	1.00	73.71	A	O
ATOM	679	N	ASP	A	63	0.594	-5.421	-86.761	1.00	77.20	A	N
ATOM	680	CA	ASP	A	63	0.269	-5.013	-88.139	1.00	76.00	A	C
ATOM	682	CB	ASP	A	63	0.908	-5.990	-89.156	1.00	77.15	A	C
ATOM	685	CG	ASP	A	63	2.265	-5.526	-89.684	1.00	77.04	A	C
ATOM	686	OD1	ASP	A	63	2.773	-4.472	-89.245	1.00	77.86	A	O
ATOM	687	OD2	ASP	A	63	2.820	-6.233	-90.559	1.00	73.97	A	O
ATOM	688	C	ASP	A	63	-1.236	-4.991	-88.413	1.00	75.62	A	C
ATOM	689	O	ASP	A	63	-1.755	-4.016	-88.961	1.00	76.42	A	O
ATOM	691	N	GLY	A	64	-1.915	-6.073	-88.027	1.00	72.42	A	N
ATOM	692	CA	GLY	A	64	-3.268	-6.381	-88.494	1.00	68.45	A	C
ATOM	695	C	GLY	A	64	-4.340	-5.332	-88.269	1.00	65.09	A	C
ATOM	696	O	GLY	A	64	-4.184	-4.421	-87.454	1.00	64.75	A	O
ATOM	698	N	LYS	A	65	-5.438	-5.472	-89.008	1.00	62.79	A	N
ATOM	699	CA	LYS	A	65	-6.588	-4.584	-88.871	1.00	60.89	A	C
ATOM	701	CB	LYS	A	65	-7.456	-4.631	-90.132	1.00	61.99	A	C
ATOM	704	CG	LYS	A	65	-8.527	-3.555	-90.177	1.00	62.81	A	C
ATOM	707	CD	LYS	A	65	-9.269	-3.566	-91.498	1.00	63.38	A	C
ATOM	710	CE	LYS	A	65	-10.248	-2.409	-91.581	1.00	63.79	A	C
ATOM	713	NZ	LYS	A	65	-11.198	-2.584	-92.720	1.00	63.77	A	N
ATOM	717	C	LYS	A	65	-7.399	-5.025	-87.661	1.00	56.68	A	C
ATOM	718	O	LYS	A	65	-7.799	-6.184	-87.584	1.00	55.16	A	O
ATOM	720	N	VAL	A	66	-7.626	-4.109	-86.719	1.00	52.66	A	N
ATOM	721	CA	VAL	A	66	-8.365	-4.417	-85.493	1.00	50.12	A	C
ATOM	723	CB	VAL	A	66	-7.790	-3.679	-84.268	1.00	48.86	A	C
ATOM	725	CG1	VAL	A	66	-8.685	-3.877	-83.052	1.00	47.57	A	C
ATOM	729	CG2	VAL	A	66	-6.391	-4.170	-83.975	1.00	51.58	A	C
ATOM	733	C	VAL	A	66	-9.836	-4.054	-85.644	1.00	47.37	A	C
ATOM	734	O	VAL	A	66	-10.172	-2.905	-85.937	1.00	49.77	A	O
ATOM	736	N	GLN	A	67	-10.706	-5.040	-85.434	1.00	43.89	A	N
ATOM	737	CA	GLN	A	67	-12.151	-4.857	-85.547	1.00	41.12	A	C
ATOM	739	CB	GLN	A	67	-12.653	-5.535	-86.823	1.00	40.24	A	C
ATOM	742	CG	GLN	A	67	-12.229	-4.824	-88.105	1.00	39.41	A	C
ATOM	745	CD	GLN	A	67	-12.375	-5.688	-89.340	1.00	38.04	A	C
ATOM	746	OE1	GLN	A	67	-11.856	-6.804	-89.404	1.00	33.96	A	O
ATOM	747	NE2	GLN	A	67	-13.062	-5.165	-90.341	1.00	37.16	A	N
ATOM	750	C	GLN	A	67	-12.855	-5.444	-84.320	1.00	40.02	A	C
ATOM	751	O	GLN	A	67	-12.290	-6.294	-83.626	1.00	38.85	A	O
ATOM	753	N	VAL	A	68	-14.082	-4.993	-84.057	1.00	38.42	A	N
ATOM	754	CA	VAL	A	68	-14.861	-5.479	-82.901	1.00	36.89	A	C
ATOM	756	CB	VAL	A	68	-15.053	-4.360	-81.848	1.00	36.68	A	C
ATOM	758	CG1	VAL	A	68	-15.926	-4.842	-80.676	1.00	35.81	A	C
ATOM	762	CG2	VAL	A	68	-13.706	-3.879	-81.361	1.00	29.48	A	C
ATOM	766	C	VAL	A	68	-16.221	-6.036	-83.337	1.00	33.30	A	C
ATOM	767	O	VAL	A	68	-17.039	-5.314	-83.896	1.00	32.49	A	O
ATOM	769	N	LEU	A	69	-16.457	-7.319	-83.072	1.00	30.19	A	N
ATOM	770	CA	LEU	A	69	-17.730	-7.963	-83.404	1.00	27.71	A	C
ATOM	772	CB	LEU	A	69	-17.494	-9.401	-83.869	1.00	25.35	A	C
ATOM	775	CG	LEU	A	69	-18.683	-10.245	-84.345	1.00	23.87	A	C
ATOM	777	CD1	LEU	A	69	-19.164	-9.828	-85.733	1.00	23.88	A	C
ATOM	781	CD2	LEU	A	69	-18.311	-11.713	-84.323	1.00	21.58	A	C
ATOM	785	C	LEU	A	69	-18.665	-7.929	-82.195	1.00	29.88	A	C
ATOM	786	O	LEU	A	69	-18.354	-8.494	-81.139	1.00	32.08	A	O
ATOM	788	N	LEU	A	70	-19.799	-7.247	-82.357	1.00	27.53	A	N
ATOM	789	CA	LEU	A	70	-20.838	-7.169	-81.328	1.00	24.29	A	C
ATOM	791	CB	LEU	A	70	-21.274	-5.717	-81.111	1.00	23.26	A	C
ATOM	794	CG	LEU	A	70	-20.190	-4.756	-80.600	1.00	20.72	A	C
ATOM	796	CD1	LEU	A	70	-20.678	-3.308	-80.577	1.00	20.49	A	C
ATOM	800	CD2	LEU	A	70	-19.731	-5.156	-79.221	1.00	18.03	A	C
ATOM	804	C	LEU	A	70	-22.019	-8.019	-81.766	1.00	18.72	A	C
ATOM	805	O	LEU	A	70	-22.135	-8.354	-82.939	1.00	21.17	A	O
ATOM	807	N	GLY	A	71	-22.896	-8.376	-80.832	1.00	21.94	A	N
ATOM	808	CA	GLY	A	71	-24.111	-9.145	-81.159	1.00	19.69	A	C
ATOM	811	C	GLY	A	71	-23.886	-10.595	-81.578	1.00	24.27	A	C
ATOM	812	O	GLY	A	71	-24.783	-11.226	-82.140	1.00	27.07	A	O
ATOM	814	N	ALA	A	72	-22.692	-11.114	-81.285	1.00	21.12	A	N
ATOM	815	CA	ALA	A	72	-22.256	-12.439	-81.693	1.00	21.42	A	C

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ATOM	817	CB	ALA	A	72	-20.715	-12.424	-81.957	1.00	18.29	A	C
ATOM	821	C	ALA	A	72	-22.580	-13.513	-80.657	1.00	19.25	A	C
ATOM	822	O	ALA	A	72	-22.527	-13.278	-79.443	1.00	17.21	A	O
ATOM	824	N	HIS	A	73	-22.914	-14.703	-81.141	1.00	18.03	A	N
ATOM	825	CA	HIS	A	73	-22.806	-15.879	-80.315	1.00	19.39	A	C
ATOM	827	CB	HIS	A	73	-24.160	-16.519	-80.066	1.00	17.50	A	C
ATOM	830	CG	HIS	A	73	-24.085	-17.651	-79.102	1.00	14.96	A	C
ATOM	831	ND1	HIS	A	73	-23.529	-17.505	-77.854	1.00	14.20	A	N
ATOM	833	CE1	HIS	A	73	-23.566	-18.663	-77.220	1.00	14.22	A	C
ATOM	835	NE2	HIS	A	73	-24.116	-19.557	-78.018	1.00	13.69	A	N
ATOM	837	CD2	HIS	A	73	-24.435	-18.954	-79.212	1.00	15.47	A	C
ATOM	839	C	HIS	A	73	-21.825	-16.847	-80.977	1.00	23.60	A	C
ATOM	840	O	HIS	A	73	-20.769	-17.121	-80.426	1.00	20.57	A	O
ATOM	842	N	SER	A	74	-22.180	-17.337	-82.167	1.00	27.98	A	N
ATOM	843	CA	SER	A	74	-21.254	-18.049	-83.042	1.00	27.19	A	C
ATOM	845	CB	SER	A	74	-22.020	-18.819	-84.118	1.00	30.31	A	C
ATOM	848	OG	SER	A	74	-21.143	-19.209	-85.162	1.00	29.56	A	O
ATOM	850	C	SER	A	74	-20.331	-17.065	-83.746	1.00	28.34	A	C
ATOM	851	O	SER	A	74	-20.808	-16.104	-84.340	1.00	29.97	A	O
ATOM	853	N	LEU	A	75	-19.024	-17.310	-83.698	1.00	28.45	A	N
ATOM	854	CA	LEU	A	75	-18.066	-16.486	-84.438	1.00	30.77	A	C
ATOM	856	CB	LEU	A	75	-16.633	-16.743	-83.962	1.00	31.45	A	C
ATOM	859	CG	LEU	A	75	-16.204	-16.437	-82.519	1.00	29.83	A	C
ATOM	861	CD1	LEU	A	75	-14.760	-16.923	-82.318	1.00	27.82	A	C
ATOM	865	CD2	LEU	A	75	-16.323	-14.955	-82.194	1.00	24.98	A	C
ATOM	869	C	LEU	A	75	-18.160	-16.749	-85.958	1.00	31.94	A	C
ATOM	870	O	LEU	A	75	-18.016	-15.821	-86.755	1.00	31.39	A	O
ATOM	872	N	SER	A	76	-18.417	-17.997	-86.357	1.00	29.54	A	N
ATOM	873	CA	SER	A	76	-18.378	-18.363	-87.782	1.00	33.60	A	C
ATOM	875	CB	SER	A	76	-17.793	-19.769	-87.972	1.00	32.67	A	C
ATOM	878	OG	SER	A	76	-18.645	-20.773	-87.455	1.00	34.34	A	O
ATOM	880	C	SER	A	76	-19.706	-18.232	-88.549	1.00	35.72	A	C
ATOM	881	O	SER	A	76	-19.688	-17.883	-89.729	1.00	36.76	A	O
ATOM	883	N	GLN	A	77	-20.837	-18.516	-87.894	1.00	38.21	A	N
ATOM	884	CA	GLN	A	77	-22.164	-18.483	-88.544	1.00	36.54	A	C
ATOM	886	CB	GLN	A	77	-23.120	-19.466	-87.862	1.00	42.31	A	C
ATOM	889	CG	GLN	A	77	-22.664	-20.908	-87.880	1.00	47.30	A	C
ATOM	892	CD	GLN	A	77	-22.391	-21.412	-89.292	1.00	53.49	A	C
ATOM	893	OE1	GLN	A	77	-21.298	-21.212	-89.829	1.00	56.37	A	O
ATOM	894	NE2	GLN	A	77	-23.384	-22.070	-89.898	1.00	53.31	A	N
ATOM	897	C	GLN	A	77	-22.807	-17.090	-88.531	1.00	33.29	A	C
ATOM	898	O	GLN	A	77	-22.959	-16.485	-87.464	1.00	24.82	A	O
ATOM	900	N	PRO	A	78	-23.209	-16.581	-89.716	1.00	34.78	A	N
ATOM	901	CA	PRO	A	78	-23.772	-15.233	-89.792	1.00	35.05	A	C
ATOM	903	CB	PRO	A	78	-23.708	-14.915	-91.285	1.00	37.90	A	C
ATOM	906	CG	PRO	A	78	-23.858	-16.236	-91.940	1.00	37.29	A	C
ATOM	909	CD	PRO	A	78	-23.179	-17.230	-91.041	1.00	36.88	A	C
ATOM	912	C	PRO	A	78	-25.212	-15.172	-89.286	1.00	33.48	A	C
ATOM	913	O	PRO	A	78	-25.929	-16.178	-89.296	1.00	31.67	A	O
ATOM	914	N	GLU	A	79	-25.624	-13.973	-88.890	1.00	34.04	A	N
ATOM	915	CA	GLU	A	79	-26.791	-13.772	-88.039	1.00	31.69	A	C
ATOM	917	CB	GLU	A	79	-26.397	-14.079	-86.581	1.00	34.44	A	C
ATOM	920	CG	GLU	A	79	-27.420	-14.847	-85.795	1.00	33.26	A	C
ATOM	923	CD	GLU	A	79	-27.183	-14.794	-84.297	1.00	28.32	A	C
ATOM	924	OE1	GLU	A	79	-26.028	-14.815	-83.842	1.00	26.80	A	O
ATOM	925	OE2	GLU	A	79	-28.180	-14.750	-83.557	1.00	29.16	A	O
ATOM	926	C	GLU	A	79	-27.154	-12.294	-88.148	1.00	28.59	A	C
ATOM	927	O	GLU	A	79	-26.253	-11.465	-88.192	1.00	29.20	A	O
ATOM	929	N	PRO	A	80	-28.457	-11.952	-88.207	1.00	28.86	A	N
ATOM	930	CA	PRO	A	80	-28.864	-10.540	-88.231	1.00	29.72	A	C
ATOM	932	CB	PRO	A	80	-30.392	-10.606	-88.113	1.00	31.62	A	C
ATOM	935	CG	PRO	A	80	-30.766	-11.930	-88.610	1.00	30.48	A	C
ATOM	938	CD	PRO	A	80	-29.612	-12.857	-88.334	1.00	29.51	A	C
ATOM	941	C	PRO	A	80	-28.275	-9.664	-87.107	1.00	30.10	A	C
ATOM	942	O	PRO	A	80	-27.980	-8.491	-87.341	1.00	28.03	A	O
ATOM	943	N	SER	A	81	-28.097	-10.220	-85.910	1.00	29.80	A	N
ATOM	944	CA	SER	A	81	-27.549	-9.448	-84.786	1.00	29.46	A	C
ATOM	946	CB	SER	A	81	-27.917	-10.110	-83.456	1.00	28.08	A	C

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ATOM	949	OG	SER	A	81	-27.360	-11.408	-83.351	1.00	27.56	A	O
ATOM	951	C	SER	A	81	-26.028	-9.218	-84.866	1.00	26.31	A	C
ATOM	952	O	SER	A	81	-25.519	-8.260	-84.296	1.00	27.29	A	O
ATOM	954	N	LYS	A	82	-25.314	-10.085	-85.570	1.00	28.76	A	N
ATOM	955	CA	LYS	A	82	-23.846	-10.022	-85.649	1.00	31.99	A	C
ATOM	957	CB	LYS	A	82	-23.313	-11.334	-86.249	1.00	31.86	A	C
ATOM	960	CG	LYS	A	82	-22.039	-11.870	-85.642	1.00	34.31	A	C
ATOM	963	CD	LYS	A	82	-21.835	-13.365	-85.945	1.00	34.80	A	C
ATOM	966	CE	LYS	A	82	-20.837	-13.589	-87.054	1.00	36.31	A	C
ATOM	969	NZ	LYS	A	82	-20.696	-15.025	-87.392	1.00	36.18	A	N
ATOM	973	C	LYS	A	82	-23.402	-8.827	-86.511	1.00	34.03	A	C
ATOM	974	O	LYS	A	82	-23.667	-8.805	-87.713	1.00	37.75	A	O
ATOM	976	N	ARG	A	83	-22.751	-7.834	-85.903	1.00	36.11	A	N
ATOM	977	CA	ARG	A	83	-22.193	-6.695	-86.653	1.00	35.90	A	C
ATOM	979	CB	ARG	A	83	-23.036	-5.429	-86.460	1.00	39.71	A	C
ATOM	982	CG	ARG	A	83	-24.048	-5.160	-87.590	1.00	46.39	A	C
ATOM	985	CD	ARG	A	83	-24.158	-3.665	-87.920	1.00	48.90	A	C
ATOM	988	NE	ARG	A	83	-22.872	-3.087	-88.348	1.00	51.39	A	N
ATOM	990	CZ	ARG	A	83	-22.622	-1.778	-88.470	1.00	51.65	A	C
ATOM	991	NH1	ARG	A	83	-23.570	-0.875	-88.204	1.00	52.51	A	N
ATOM	994	NH2	ARG	A	83	-21.415	-1.364	-88.861	1.00	51.45	A	N
ATOM	997	C	ARG	A	83	-20.739	-6.417	-86.280	1.00	35.72	A	C
ATOM	998	O	ARG	A	83	-20.405	-6.247	-85.099	1.00	34.99	A	O
ATOM	1000	N	LEU	A	84	-19.887	-6.357	-87.306	1.00	32.54	A	N
ATOM	1001	CA	LEU	A	84	-18.453	-6.130	-87.151	1.00	30.78	A	C
ATOM	1003	CB	LEU	A	84	-17.695	-6.991	-88.171	1.00	31.81	A	C
ATOM	1006	CG	LEU	A	84	-16.171	-7.155	-88.050	1.00	33.03	A	C
ATOM	1008	CD1	LEU	A	84	-15.737	-7.757	-86.713	1.00	30.89	A	C
ATOM	1012	CD2	LEU	A	84	-15.645	-8.008	-89.209	1.00	32.32	A	C
ATOM	1016	C	LEU	A	84	-18.115	-4.652	-87.354	1.00	30.26	A	C
ATOM	1017	O	LEU	A	84	-18.385	-4.091	-88.410	1.00	28.72	A	O
ATOM	1019	N	TYR	A	85	-17.514	-4.027	-86.344	1.00	31.48	A	N
ATOM	1020	CA	TYR	A	85	-17.125	-2.616	-86.411	1.00	33.56	A	C
ATOM	1022	CB	TYR	A	85	-17.554	-1.907	-85.126	1.00	32.12	A	C
ATOM	1025	CG	TYR	A	85	-19.044	-1.850	-84.969	1.00	30.23	A	C
ATOM	1026	CD1	TYR	A	85	-19.748	-0.716	-85.313	1.00	30.29	A	C
ATOM	1028	CE1	TYR	A	85	-21.128	-0.666	-85.192	1.00	30.75	A	C
ATOM	1030	CZ	TYR	A	85	-21.820	-1.769	-84.738	1.00	30.57	A	C
ATOM	1031	OH	TYR	A	85	-23.193	-1.719	-84.615	1.00	30.61	A	O
ATOM	1033	CE2	TYR	A	85	-21.139	-2.918	-84.396	1.00	32.36	A	C
ATOM	1035	CD2	TYR	A	85	-19.757	-2.959	-84.525	1.00	32.01	A	C
ATOM	1037	C	TYR	A	85	-15.623	-2.408	-86.625	1.00	35.71	A	C
ATOM	1038	O	TYR	A	85	-14.810	-3.033	-85.957	1.00	40.39	A	O
ATOM	1040	N	ASP	A	86	-15.261	-1.529	-87.559	1.00	37.12	A	N
ATOM	1041	CA	ASP	A	86	-13.891	-1.038	-87.656	1.00	39.01	A	C
ATOM	1043	CB	ASP	A	86	-13.711	-0.081	-88.844	1.00	43.54	A	C
ATOM	1046	CG	ASP	A	86	-13.706	-0.786	-90.190	1.00	46.52	A	C
ATOM	1047	OD1	ASP	A	86	-13.393	-1.990	-90.249	1.00	49.78	A	O
ATOM	1048	OD2	ASP	A	86	-14.010	-0.114	-91.202	1.00	49.20	A	O
ATOM	1049	C	ASP	A	86	-13.588	-0.278	-86.374	1.00	37.64	A	C
ATOM	1050	O	ASP	A	86	-14.498	0.208	-85.704	1.00	34.63	A	O
ATOM	1052	N	VAL	A	87	-12.311	-0.177	-86.033	1.00	40.80	A	N
ATOM	1053	CA	VAL	A	87	-11.902	0.599	-84.866	1.00	44.99	A	C
ATOM	1055	CB	VAL	A	87	-10.882	-0.167	-83.970	1.00	42.23	A	C
ATOM	1057	CG1	VAL	A	87	-10.503	0.666	-82.763	1.00	40.88	A	C
ATOM	1061	CG2	VAL	A	87	-11.468	-1.492	-83.519	1.00	38.86	A	C
ATOM	1065	C	VAL	A	87	-11.335	1.929	-85.359	1.00	47.96	A	C
ATOM	1066	O	VAL	A	87	-10.486	1.966	-86.250	1.00	49.36	A	O
ATOM	1068	N	LEU	A	88	-11.835	3.013	-84.778	1.00	49.32	A	N
ATOM	1069	CA	LEU	A	88	-11.429	4.365	-85.144	1.00	49.07	A	C
ATOM	1071	CB	LEU	A	88	-12.564	5.341	-84.808	1.00	48.00	A	C
ATOM	1074	CG	LEU	A	88	-12.704	6.593	-85.661	1.00	49.32	A	C
ATOM	1076	CD1	LEU	A	88	-13.022	6.192	-87.095	1.00	51.05	A	C
ATOM	1080	CD2	LEU	A	88	-13.789	7.503	-85.083	1.00	48.37	A	C
ATOM	1084	C	LEU	A	88	-10.152	4.783	-84.409	1.00	50.71	A	C
ATOM	1085	O	LEU	A	88	-9.356	5.555	-84.935	1.00	51.19	A	O
ATOM	1087	N	ARG	A	89	-9.964	4.260	-83.198	1.00	51.10	A	N
ATOM	1088	CA	ARG	A	89	-8.948	4.758	-82.277	1.00	50.72	A	C

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ATOM	1090	CB	ARG	A	89	-9.382	6.131	-81.756	1.00	50.65	A	C
ATOM	1093	CG	ARG	A	89	-8.366	6.859	-80.898	1.00	52.53	A	C
ATOM	1096	CD	ARG	A	89	-8.915	8.215	-80.467	1.00	53.64	A	C
ATOM	1099	NE	ARG	A	89	-8.440	8.611	-79.137	1.00	53.72	A	N
ATOM	1101	CZ	ARG	A	89	-9.161	9.287	-78.238	1.00	56.82	A	C
ATOM	1102	NH1	ARG	A	89	-10.419	9.657	-78.494	1.00	57.09	A	N
ATOM	1105	NH2	ARG	A	89	-8.625	9.590	-77.058	1.00	57.04	A	N
ATOM	1108	C	ARG	A	89	-8.785	3.780	-81.113	1.00	50.20	A	C
ATOM	1109	O	ARG	A	89	-9.751	3.495	-80.406	1.00	50.71	A	O
ATOM	1111	N	ALA	A	90	-7.569	3.265	-80.929	1.00	49.57	A	N
ATOM	1112	CA	ALA	A	90	-7.257	2.338	-79.838	1.00	49.24	A	C
ATOM	1114	CB	ALA	A	90	-6.502	1.125	-80.363	1.00	46.55	A	C
ATOM	1118	C	ALA	A	90	-6.430	3.060	-78.783	1.00	50.35	A	C
ATOM	1119	O	ALA	A	90	-5.315	3.498	-79.066	1.00	52.23	A	O
ATOM	1121	N	VAL	A	91	-6.981	3.177	-77.576	1.00	49.71	A	N
ATOM	1122	CA	VAL	A	91	-6.354	3.915	-76.477	1.00	49.97	A	C
ATOM	1124	CB	VAL	A	91	-7.309	4.986	-75.923	1.00	49.35	A	C
ATOM	1126	CG1	VAL	A	91	-6.682	5.703	-74.731	1.00	51.15	A	C
ATOM	1130	CG2	VAL	A	91	-7.667	5.975	-77.007	1.00	50.24	A	C
ATOM	1134	C	VAL	A	91	-5.951	2.971	-75.333	1.00	51.95	A	C
ATOM	1135	O	VAL	A	91	-6.758	2.682	-74.444	1.00	52.56	A	O
ATOM	1137	N	PRO	A	92	-4.695	2.493	-75.345	1.00	51.64	A	N
ATOM	1138	CA	PRO	A	92	-4.222	1.723	-74.204	1.00	52.99	A	C
ATOM	1140	CB	PRO	A	92	-2.979	0.998	-74.734	1.00	52.11	A	C
ATOM	1143	CG	PRO	A	92	-2.627	1.638	-76.025	1.00	52.10	A	C
ATOM	1146	CD	PRO	A	92	-3.661	2.655	-76.379	1.00	52.98	A	C
ATOM	1149	C	PRO	A	92	-3.862	2.645	-73.052	1.00	52.72	A	C
ATOM	1150	O	PRO	A	92	-3.583	3.824	-73.268	1.00	53.28	A	O
ATOM	1151	N	HIS	A	93	-3.885	2.103	-71.840	1.00	53.09	A	N
ATOM	1152	CA	HIS	A	93	-3.578	2.877	-70.642	1.00	53.98	A	C
ATOM	1154	CB	HIS	A	93	-3.810	2.022	-69.395	1.00	48.30	A	C
ATOM	1157	CG	HIS	A	93	-3.772	2.786	-68.111	1.00	45.32	A	C
ATOM	1158	ND1	HIS	A	93	-2.597	3.071	-67.452	1.00	43.04	A	N
ATOM	1160	CE1	HIS	A	93	-2.868	3.740	-66.345	1.00	44.41	A	C
ATOM	1162	NE2	HIS	A	93	-4.176	3.888	-66.259	1.00	42.15	A	N
ATOM	1164	CD2	HIS	A	93	-4.765	3.291	-67.345	1.00	41.55	A	C
ATOM	1166	C	HIS	A	93	-2.118	3.318	-70.739	1.00	56.94	A	C
ATOM	1167	O	HIS	A	93	-1.252	2.499	-71.078	1.00	58.81	A	O
ATOM	1169	N	PRO	A	94	-1.836	4.606	-70.466	1.00	56.52	A	N
ATOM	1170	CA	PRO	A	94	-0.479	5.125	-70.687	1.00	58.36	A	C
ATOM	1172	CB	PRO	A	94	-0.606	6.608	-70.315	1.00	58.02	A	C
ATOM	1175	CG	PRO	A	94	-1.803	6.683	-69.422	1.00	57.43	A	C
ATOM	1178	CD	PRO	A	94	-2.740	5.641	-69.934	1.00	57.10	A	C
ATOM	1181	C	PRO	A	94	0.606	4.428	-69.846	1.00	60.01	A	C
ATOM	1182	O	PRO	A	94	1.724	4.259	-70.324	1.00	60.54	A	O
ATOM	1183	N	ASP	A	95	0.263	4.015	-68.624	1.00	62.08	A	N
ATOM	1184	CA	ASP	A	95	1.191	3.309	-67.720	1.00	62.53	A	C
ATOM	1186	CB	ASP	A	95	0.727	3.457	-66.267	1.00	63.52	A	C
ATOM	1189	CG	ASP	A	95	0.647	4.896	-65.822	1.00	65.42	A	C
ATOM	1190	OD1	ASP	A	95	1.228	5.768	-66.504	1.00	67.58	A	O
ATOM	1191	OD2	ASP	A	95	0.003	5.153	-64.781	1.00	66.41	A	O
ATOM	1192	C	ASP	A	95	1.373	1.812	-67.999	1.00	63.25	A	C
ATOM	1193	O	ASP	A	95	2.183	1.155	-67.332	1.00	62.76	A	O
ATOM	1195	N	SER	A	96	0.627	1.258	-68.956	1.00	64.83	A	N
ATOM	1196	CA	SER	A	96	0.753	-0.166	-69.281	1.00	66.29	A	C
ATOM	1198	CB	SER	A	96	-0.482	-0.672	-70.043	1.00	62.90	A	C
ATOM	1201	OG	SER	A	96	-0.628	-0.043	-71.302	1.00	61.79	A	O
ATOM	1203	C	SER	A	96	2.042	-0.437	-70.075	1.00	68.26	A	C
ATOM	1204	O	SER	A	96	2.429	0.359	-70.937	1.00	63.88	A	O
ATOM	1206	N	ARG	A	97	2.699	-1.558	-69.764	1.00	72.27	A	N
ATOM	1207	CA	ARG	A	97	3.952	-1.969	-70.423	1.00	74.38	A	C
ATOM	1209	CB	ARG	A	97	5.156	-1.770	-69.487	1.00	77.10	A	C
ATOM	1212	CG	ARG	A	97	5.380	-0.339	-69.008	1.00	77.88	A	C
ATOM	1215	CD	ARG	A	97	5.821	0.579	-70.136	1.00	79.38	A	C
ATOM	1218	NE	ARG	A	97	6.346	1.853	-69.639	1.00	80.35	A	N
ATOM	1220	CZ	ARG	A	97	5.613	2.918	-69.301	1.00	81.92	A	C
ATOM	1221	NH1	ARG	A	97	4.288	2.902	-69.392	1.00	81.67	A	N
ATOM	1224	NH2	ARG	A	97	6.214	4.022	-68.863	1.00	81.70	A	N

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ATOM	1227	C	ARG	A	97	3.879	-3.445	-70.852	1.00	74.40	A	C
ATOM	1228	O	ARG	A	97	3.112	-4.218	-70.276	1.00	72.19	A	O
ATOM	1230	N	PRO	A	98	4.677	-3.840	-71.866	1.00	76.17	A	N
ATOM	1231	CA	PRO	A	98	4.718	-5.262	-72.247	1.00	77.02	A	C
ATOM	1233	CB	PRO	A	98	5.470	-5.257	-73.595	1.00	78.10	A	C
ATOM	1236	CG	PRO	A	98	5.623	-3.810	-73.985	1.00	77.58	A	C
ATOM	1239	CD	PRO	A	98	5.560	-3.022	-72.717	1.00	77.08	A	C
ATOM	1242	C	PRO	A	98	5.439	-6.158	-71.218	1.00	78.07	A	C
ATOM	1243	O	PRO	A	98	5.250	-7.382	-71.224	1.00	79.43	A	O
ATOM	1244	N	ASP	A	99	6.257	-5.545	-70.360	1.00	76.69	A	N
ATOM	1245	CA	ASP	A	99	6.940	-6.242	-69.266	1.00	74.04	A	C
ATOM	1247	CB	ASP	A	99	8.065	-5.363	-68.690	1.00	76.85	A	C
ATOM	1250	CG	ASP	A	99	9.188	-5.104	-69.679	1.00	79.71	A	C
ATOM	1251	OD1	ASP	A	99	9.837	-4.042	-69.563	1.00	81.00	A	O
ATOM	1252	OD2	ASP	A	99	9.434	-5.954	-70.561	1.00	81.15	A	O
ATOM	1253	C	ASP	A	99	5.988	-6.593	-68.122	1.00	70.17	A	C
ATOM	1254	O	ASP	A	99	6.178	-7.595	-67.439	1.00	67.81	A	O
ATOM	1256	N	THR	A	100	4.978	-5.749	-67.920	1.00	68.33	A	N
ATOM	1257	CA	THR	A	100	4.125	-5.773	-66.729	1.00	64.26	A	C
ATOM	1259	CB	THR	A	100	3.947	-4.320	-66.182	1.00	65.15	A	C
ATOM	1261	OG1	THR	A	100	3.445	-4.353	-64.842	1.00	68.86	A	O
ATOM	1263	CG2	THR	A	100	2.999	-3.506	-67.057	1.00	63.75	A	C
ATOM	1267	C	THR	A	100	2.747	-6.396	-67.011	1.00	57.71	A	C
ATOM	1268	O	THR	A	100	2.383	-6.608	-68.165	1.00	53.45	A	O
ATOM	1270	N	ILE	A	101	2.006	-6.712	-65.948	1.00	52.89	A	N
ATOM	1271	CA	ILE	A	101	0.562	-7.006	-66.054	1.00	54.39	A	C
ATOM	1273	CB	ILE	A	101	0.146	-8.413	-65.461	1.00	52.40	A	C
ATOM	1275	CG1	ILE	A	101	0.566	-8.569	-63.995	1.00	51.46	A	C
ATOM	1278	CD1	ILE	A	101	-0.148	-9.693	-63.294	1.00	50.97	A	C
ATOM	1282	CG2	ILE	A	101	0.709	-9.544	-66.308	1.00	52.28	A	C
ATOM	1286	C	ILE	A	101	-0.288	-5.884	-65.418	1.00	48.00	A	C
ATOM	1287	O	ILE	A	101	-1.504	-6.005	-65.329	1.00	45.48	A	O
ATOM	1289	N	ASP	A	102	0.360	-4.798	-64.996	1.00	49.06	A	N
ATOM	1290	CA	ASP	A	102	-0.340	-3.634	-64.428	1.00	48.35	A	C
ATOM	1292	CB	ASP	A	102	0.607	-2.799	-63.556	1.00	49.50	A	C
ATOM	1295	CG	ASP	A	102	1.128	-3.559	-62.340	1.00	48.75	A	C
ATOM	1296	OD1	ASP	A	102	0.331	-3.907	-61.445	1.00	49.85	A	O
ATOM	1297	OD2	ASP	A	102	2.352	-3.771	-62.263	1.00	49.93	A	O
ATOM	1298	C	ASP	A	102	-0.948	-2.731	-65.515	1.00	46.52	A	C
ATOM	1299	O	ASP	A	102	-0.437	-2.644	-66.649	1.00	42.84	A	O
ATOM	1301	N	HIS	A	103	-2.052	-2.074	-65.144	1.00	47.39	A	N
ATOM	1302	CA	HIS	A	103	-2.747	-1.077	-65.983	1.00	45.26	A	C
ATOM	1304	CB	HIS	A	103	-1.899	0.213	-66.095	1.00	41.65	A	C
ATOM	1307	CG	HIS	A	103	-1.121	0.522	-64.850	1.00	37.76	A	C
ATOM	1308	ND1	HIS	A	103	-1.729	0.844	-63.655	1.00	34.62	A	N
ATOM	1310	CE1	HIS	A	103	-0.805	1.037	-62.731	1.00	34.36	A	C
ATOM	1312	NE2	HIS	A	103	0.381	0.843	-63.280	1.00	36.63	A	N
ATOM	1314	CD2	HIS	A	103	0.211	0.509	-64.602	1.00	36.74	A	C
ATOM	1316	C	HIS	A	103	-3.132	-1.640	-67.354	1.00	45.07	A	C
ATOM	1317	O	HIS	A	103	-3.148	-0.919	-68.353	1.00	43.47	A	O
ATOM	1319	N	ASP	A	104	-3.490	-2.926	-67.372	1.00	44.83	A	N
ATOM	1320	CA	ASP	A	104	-3.675	-3.683	-68.606	1.00	40.82	A	C
ATOM	1322	CB	ASP	A	104	-3.423	-5.186	-68.331	1.00	41.92	A	C
ATOM	1325	CG	ASP	A	104	-3.325	-6.047	-69.618	1.00	44.77	A	C
ATOM	1326	OD1	ASP	A	104	-3.169	-5.507	-70.729	1.00	45.72	A	O
ATOM	1327	OD2	ASP	A	104	-3.382	-7.292	-69.513	1.00	49.37	A	O
ATOM	1328	C	ASP	A	104	-5.076	-3.442	-69.170	1.00	37.29	A	C
ATOM	1329	O	ASP	A	104	-5.790	-4.387	-69.490	1.00	30.84	A	O
ATOM	1331	N	LEU	A	105	-5.466	-2.170	-69.280	1.00	35.98	A	N
ATOM	1332	CA	LEU	A	105	-6.743	-1.799	-69.867	1.00	34.54	A	C
ATOM	1334	CB	LEU	A	105	-7.544	-0.910	-68.921	1.00	35.42	A	C
ATOM	1337	CG	LEU	A	105	-7.979	-1.506	-67.581	1.00	33.22	A	C
ATOM	1339	CD1	LEU	A	105	-8.839	-0.492	-66.850	1.00	28.96	A	C
ATOM	1343	CD2	LEU	A	105	-8.737	-2.837	-67.747	1.00	31.61	A	C
ATOM	1347	C	LEU	A	105	-6.527	-1.103	-71.207	1.00	35.95	A	C
ATOM	1348	O	LEU	A	105	-5.550	-0.386	-71.408	1.00	40.58	A	O
ATOM	1350	N	LEU	A	106	-7.447	-1.357	-72.127	1.00	36.94	A	N
ATOM	1351	CA	LEU	A	106	-7.431	-0.781	-73.459	1.00	35.20	A	C

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ATOM	1353	CB	LEU	A	106	-7.010	-1.838	-74.479	1.00	34.88	A	C
ATOM	1356	CG	LEU	A	106	-7.125	-1.549	-75.979	1.00	36.10	A	C
ATOM	1358	CD1	LEU	A	106	-6.028	-0.611	-76.466	1.00	33.22	A	C
ATOM	1362	CD2	LEU	A	106	-7.082	-2.856	-76.752	1.00	32.99	A	C
ATOM	1366	C	LEU	A	106	-8.846	-0.317	-73.738	1.00	37.09	A	C
ATOM	1367	O	LEU	A	106	-9.812	-0.980	-73.371	1.00	37.21	A	O
ATOM	1369	N	LEU	A	107	-8.973	0.836	-74.375	1.00	39.36	A	N
ATOM	1370	CA	LEU	A	107	-10.270	1.343	-74.752	1.00	35.19	A	C
ATOM	1372	CB	LEU	A	107	-10.580	2.625	-73.979	1.00	31.79	A	C
ATOM	1375	CG	LEU	A	107	-11.338	2.439	-72.659	1.00	30.33	A	C
ATOM	1377	CD1	LEU	A	107	-11.613	3.785	-71.968	1.00	23.53	A	C
ATOM	1381	CD2	LEU	A	107	-12.663	1.684	-72.895	1.00	24.74	A	C
ATOM	1385	C	LEU	A	107	-10.259	1.576	-76.251	1.00	38.00	A	C
ATOM	1386	O	LEU	A	107	-9.451	2.351	-76.742	1.00	39.53	A	O
ATOM	1388	N	LEU	A	108	-11.147	0.885	-76.966	1.00	38.84	A	N
ATOM	1389	CA	LEU	A	108	-11.254	0.973	-78.418	1.00	37.78	A	C
ATOM	1391	CB	LEU	A	108	-11.380	-0.425	-79.031	1.00	39.49	A	C
ATOM	1394	CG	LEU	A	108	-10.414	-1.507	-78.546	1.00	41.19	A	C
ATOM	1396	CD1	LEU	A	108	-10.821	-2.845	-79.112	1.00	40.38	A	C
ATOM	1400	CD2	LEU	A	108	-8.984	-1.162	-78.923	1.00	43.02	A	C
ATOM	1404	C	LEU	A	108	-12.493	1.779	-78.787	1.00	38.88	A	C
ATOM	1405	O	LEU	A	108	-13.588	1.505	-78.280	1.00	33.01	A	O
ATOM	1407	N	GLN	A	109	-12.315	2.759	-79.673	1.00	40.03	A	N
ATOM	1408	CA	GLN	A	109	-13.413	3.569	-80.190	1.00	40.00	A	C
ATOM	1410	CB	GLN	A	109	-12.951	5.016	-80.402	1.00	40.30	A	C
ATOM	1413	CG	GLN	A	109	-14.083	5.988	-80.679	1.00	40.09	A	C
ATOM	1416	CD	GLN	A	109	-13.609	7.411	-80.911	1.00	42.61	A	C
ATOM	1417	OE1	GLN	A	109	-12.414	7.672	-81.064	1.00	47.69	A	O
ATOM	1418	NE2	GLN	A	109	-14.550	8.340	-80.937	1.00	43.20	A	N
ATOM	1421	C	GLN	A	109	-13.914	2.985	-81.517	1.00	40.89	A	C
ATOM	1422	O	GLN	A	109	-13.130	2.800	-82.454	1.00	39.69	A	O
ATOM	1424	N	LEU	A	110	-15.216	2.708	-81.595	1.00	41.85	A	N
ATOM	1425	CA	LEU	A	110	-15.821	2.093	-82.783	1.00	41.85	A	C
ATOM	1427	CB	LEU	A	110	-17.154	1.436	-82.416	1.00	38.43	A	C
ATOM	1430	CG	LEU	A	110	-17.154	0.429	-81.264	1.00	35.60	A	C
ATOM	1432	CD1	LEU	A	110	-18.564	-0.114	-81.042	1.00	36.56	A	C
ATOM	1436	CD2	LEU	A	110	-16.180	-0.692	-81.537	1.00	31.67	A	C
ATOM	1440	C	LEU	A	110	-16.055	3.126	-83.892	1.00	45.42	A	C
ATOM	1441	O	LEU	A	110	-16.340	4.297	-83.609	1.00	47.04	A	O
ATOM	1443	N	SER	A	111	-15.960	2.679	-85.147	1.00	46.26	A	N
ATOM	1444	CA	SER	A	111	-16.089	3.566	-86.318	1.00	45.73	A	C
ATOM	1446	CB	SER	A	111	-16.034	2.772	-87.632	1.00	46.17	A	C
ATOM	1449	OG	SER	A	111	-17.005	1.734	-87.676	1.00	48.13	A	O
ATOM	1451	C	SER	A	111	-17.354	4.408	-86.256	1.00	45.74	A	C
ATOM	1452	O	SER	A	111	-17.344	5.571	-86.645	1.00	47.20	A	O
ATOM	1454	N	GLU	A	112	-18.435	3.814	-85.763	1.00	47.37	A	N
ATOM	1455	CA	GLU	A	112	-19.647	4.556	-85.413	1.00	47.46	A	C
ATOM	1457	CB	GLU	A	112	-20.674	4.438	-86.537	1.00	51.04	A	C
ATOM	1460	CG	GLU	A	112	-21.236	3.034	-86.716	1.00	53.20	A	C
ATOM	1463	CD	GLU	A	112	-21.724	2.780	-88.125	1.00	54.56	A	C
ATOM	1464	OE1	GLU	A	112	-22.952	2.624	-88.313	1.00	56.44	A	O
ATOM	1465	OE2	GLU	A	112	-20.872	2.749	-89.042	1.00	56.51	A	O
ATOM	1466	C	GLU	A	112	-20.220	4.006	-84.102	1.00	43.04	A	C
ATOM	1467	O	GLU	A	112	-19.798	2.951	-83.637	1.00	40.01	A	O
ATOM	1469	N	LYS	A	113	-21.163	4.723	-83.499	1.00	41.20	A	N
ATOM	1470	CA	LYS	A	113	-21.879	4.197	-82.337	1.00	42.99	A	C
ATOM	1472	CB	LYS	A	113	-22.931	5.182	-81.843	1.00	45.82	A	C
ATOM	1475	CG	LYS	A	113	-22.379	6.343	-81.055	1.00	48.42	A	C
ATOM	1478	CD	LYS	A	113	-23.482	7.358	-80.815	1.00	48.08	A	C
ATOM	1481	CE	LYS	A	113	-23.098	8.384	-79.768	1.00	49.62	A	C
ATOM	1484	NZ	LYS	A	113	-24.150	9.445	-79.662	1.00	51.88	A	N
ATOM	1488	C	LYS	A	113	-22.567	2.883	-82.700	1.00	41.20	A	C
ATOM	1489	O	LYS	A	113	-23.182	2.774	-83.764	1.00	39.17	A	O
ATOM	1491	N	ALA	A	114	-22.469	1.893	-81.815	1.00	38.73	A	N
ATOM	1492	CA	ALA	A	114	-23.059	0.580	-82.065	1.00	37.42	A	C
ATOM	1494	CB	ALA	A	114	-22.527	-0.452	-81.074	1.00	33.40	A	C
ATOM	1498	C	ALA	A	114	-24.586	0.653	-82.011	1.00	36.87	A	C
ATOM	1499	O	ALA	A	114	-25.172	1.375	-81.190	1.00	35.52	A	O

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ATOM	1501	N	THR	A	115	-25.218	-0.080	-82.923	1.00	36.64	A	N
ATOM	1502	CA	THR	A	115	-26.667	-0.188	-82.974	1.00	36.58	A	C
ATOM	1504	CB	THR	A	115	-27.126	-0.775	-84.333	1.00	40.02	A	C
ATOM	1506	OG1	THR	A	115	-26.687	0.079	-85.399	1.00	42.05	A	O
ATOM	1508	CG2	THR	A	115	-28.629	-0.922	-84.386	1.00	36.82	A	C
ATOM	1512	C	THR	A	115	-27.138	-1.091	-81.835	1.00	34.85	A	C
ATOM	1513	O	THR	A	115	-26.779	-2.279	-81.781	1.00	32.31	A	O
ATOM	1515	N	LEU	A	116	-27.936	-0.523	-80.933	1.00	32.03	A	N
ATOM	1516	CA	LEU	A	116	-28.389	-1.227	-79.736	1.00	32.60	A	C
ATOM	1518	CB	LEU	A	116	-28.602	-0.243	-78.577	1.00	32.00	A	C
ATOM	1521	CG	LEU	A	116	-27.403	0.615	-78.143	1.00	28.88	A	C
ATOM	1523	CD1	LEU	A	116	-27.726	1.352	-76.843	1.00	24.99	A	C
ATOM	1527	CD2	LEU	A	116	-26.123	-0.220	-78.012	1.00	25.50	A	C
ATOM	1531	C	LEU	A	116	-29.671	-2.018	-79.980	1.00	34.30	A	C
ATOM	1532	O	LEU	A	116	-30.461	-1.691	-80.858	1.00	38.89	A	O
ATOM	1534	N	GLY	A	117	-29.868	-3.058	-79.176	1.00	33.76	A	N
ATOM	1535	CA	GLY	A	117	-31.016	-3.956	-79.297	1.00	32.80	A	C
ATOM	1538	C	GLY	A	117	-30.907	-5.064	-78.267	1.00	32.90	A	C
ATOM	1539	O	GLY	A	117	-30.037	-5.008	-77.390	1.00	33.29	A	O
ATOM	1541	N	PRO	A	118	-31.773	-6.086	-78.364	1.00	28.40	A	N
ATOM	1542	CA	PRO	A	118	-31.716	-7.213	-77.422	1.00	28.96	A	C
ATOM	1544	CB	PRO	A	118	-32.839	-8.136	-77.909	1.00	27.74	A	C
ATOM	1547	CG	PRO	A	118	-33.731	-7.266	-78.725	1.00	27.98	A	C
ATOM	1550	CD	PRO	A	118	-32.849	-6.248	-79.350	1.00	28.83	A	C
ATOM	1553	C	PRO	A	118	-30.357	-7.940	-77.423	1.00	26.11	A	C
ATOM	1554	O	PRO	A	118	-29.938	-8.506	-76.403	1.00	16.45	A	O
ATOM	1555	N	ALA	A	119	-29.666	-7.898	-78.559	1.00	27.71	A	N
ATOM	1556	CA	ALA	A	119	-28.384	-8.572	-78.703	1.00	26.41	A	C
ATOM	1558	CB	ALA	A	119	-28.332	-9.287	-80.059	1.00	26.95	A	C
ATOM	1562	C	ALA	A	119	-27.151	-7.662	-78.525	1.00	24.69	A	C
ATOM	1563	O	ALA	A	119	-26.037	-8.160	-78.492	1.00	19.22	A	O
ATOM	1565	N	VAL	A	120	-27.341	-6.345	-78.428	1.00	26.99	A	N
ATOM	1566	CA	VAL	A	120	-26.226	-5.408	-78.244	1.00	27.02	A	C
ATOM	1568	CB	VAL	A	120	-25.763	-4.803	-79.586	1.00	27.33	A	C
ATOM	1570	CG1	VAL	A	120	-24.419	-4.063	-79.402	1.00	23.51	A	C
ATOM	1574	CG2	VAL	A	120	-25.665	-5.890	-80.668	1.00	20.31	A	C
ATOM	1578	C	VAL	A	120	-26.596	-4.276	-77.270	1.00	29.45	A	C
ATOM	1579	O	VAL	A	120	-27.522	-3.515	-77.521	1.00	26.76	A	O
ATOM	1581	N	ARG	A	121	-25.863	-4.172	-76.162	1.00	31.36	A	N
ATOM	1582	CA	ARG	A	121	-26.207	-3.254	-75.076	1.00	31.87	A	C
ATOM	1584	CB	ARG	A	121	-27.372	-3.842	-74.283	1.00	34.09	A	C
ATOM	1587	CG	ARG	A	121	-28.227	-2.832	-73.527	1.00	37.38	A	C
ATOM	1590	CD	ARG	A	121	-29.287	-3.547	-72.696	1.00	40.86	A	C
ATOM	1593	NE	ARG	A	121	-29.883	-4.663	-73.437	1.00	41.78	A	N
ATOM	1595	CZ	ARG	A	121	-30.148	-5.871	-72.936	1.00	45.05	A	C
ATOM	1596	NH1	ARG	A	121	-30.680	-6.806	-73.719	1.00	47.24	A	N
ATOM	1599	NH2	ARG	A	121	-29.884	-6.166	-71.667	1.00	47.24	A	N
ATOM	1602	C	ARG	A	121	-25.001	-3.034	-74.137	1.00	31.61	A	C
ATOM	1603	O	ARG	A	121	-24.366	-4.005	-73.723	1.00	31.41	A	O
ATOM	1605	N	PRO	A	122	-24.673	-1.763	-73.809	1.00	30.34	A	N
ATOM	1606	CA	PRO	A	122	-23.581	-1.489	-72.860	1.00	30.39	A	C
ATOM	1608	CB	PRO	A	122	-23.503	0.042	-72.836	1.00	32.00	A	C
ATOM	1611	CG	PRO	A	122	-24.216	0.492	-74.067	1.00	31.57	A	C
ATOM	1614	CD	PRO	A	122	-25.268	-0.517	-74.322	1.00	30.60	A	C
ATOM	1617	C	PRO	A	122	-23.814	-2.024	-71.447	1.00	25.43	A	C
ATOM	1618	O	PRO	A	122	-24.944	-2.163	-71.015	1.00	23.87	A	O
ATOM	1619	N	LEU	A	123	-22.728	-2.359	-70.755	1.00	30.90	A	N
ATOM	1620	CA	LEU	A	123	-22.817	-2.854	-69.389	1.00	32.21	A	C
ATOM	1622	CB	LEU	A	123	-21.986	-4.139	-69.198	1.00	30.54	A	C
ATOM	1625	CG	LEU	A	123	-22.033	-4.820	-67.818	1.00	27.61	A	C
ATOM	1627	CD1	LEU	A	123	-21.136	-6.046	-67.760	1.00	17.80	A	C
ATOM	1631	CD2	LEU	A	123	-23.494	-5.164	-67.440	1.00	25.49	A	C
ATOM	1635	C	LEU	A	123	-22.303	-1.767	-68.464	1.00	30.39	A	C
ATOM	1636	O	LEU	A	123	-21.207	-1.249	-68.681	1.00	26.88	A	O
ATOM	1638	N	PRO	A	124	-23.092	-1.418	-67.433	1.00	35.06	A	N
ATOM	1639	CA	PRO	A	124	-22.555	-0.531	-66.402	1.00	34.73	A	C
ATOM	1641	CB	PRO	A	124	-23.741	-0.345	-65.430	1.00	39.14	A	C
ATOM	1644	CG	PRO	A	124	-24.700	-1.453	-65.733	1.00	40.11	A	C

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ATOM	1647	CD	PRO	A	124	-24.505	-1.771	-67.181	1.00	38.23	A	C
ATOM	1650	C	PRO	A	124	-21.313	-1.089	-65.676	1.00	32.26	A	C
ATOM	1651	O	PRO	A	124	-21.273	-2.264	-65.283	1.00	28.04	A	O
ATOM	1652	N	TRP	A	125	-20.310	-0.236	-65.504	1.00	31.91	A	N
ATOM	1653	CA	TRP	A	125	-19.084	-0.625	-64.807	1.00	32.31	A	C
ATOM	1655	CB	TRP	A	125	-17.848	-0.362	-65.657	1.00	33.29	A	C
ATOM	1658	CG	TRP	A	125	-17.770	0.982	-66.241	1.00	34.47	A	C
ATOM	1659	CD1	TRP	A	125	-18.289	1.383	-67.430	1.00	34.55	A	C
ATOM	1661	NE1	TRP	A	125	-17.999	2.709	-67.648	1.00	35.86	A	N
ATOM	1663	CE2	TRP	A	125	-17.258	3.180	-66.596	1.00	36.20	A	C
ATOM	1664	CD2	TRP	A	125	-17.098	2.116	-65.687	1.00	34.68	A	C
ATOM	1665	CE3	TRP	A	125	-16.377	2.336	-64.511	1.00	34.48	A	C
ATOM	1667	CZ3	TRP	A	125	-15.853	3.600	-64.276	1.00	34.53	A	C
ATOM	1669	CH2	TRP	A	125	-16.032	4.635	-65.197	1.00	34.74	A	C
ATOM	1671	CZ2	TRP	A	125	-16.733	4.448	-66.360	1.00	34.53	A	C
ATOM	1673	C	TRP	A	125	-18.969	0.041	-63.451	1.00	29.37	A	C
ATOM	1674	O	TRP	A	125	-19.577	1.088	-63.196	1.00	34.09	A	O
ATOM	1676	N	GLN	A	126	-18.218	-0.600	-62.569	1.00	26.16	A	N
ATOM	1677	CA	GLN	A	126	-18.121	-0.157	-61.189	1.00	29.58	A	C
ATOM	1679	CB	GLN	A	126	-17.451	-1.221	-60.320	1.00	25.64	A	C
ATOM	1682	CG	GLN	A	126	-17.459	-0.888	-58.842	1.00	19.78	A	C
ATOM	1685	CD	GLN	A	126	-18.852	-0.619	-58.329	1.00	18.10	A	C
ATOM	1686	OE1	GLN	A	126	-19.296	0.527	-58.279	1.00	17.29	A	O
ATOM	1687	NE2	GLN	A	126	-19.552	-1.668	-57.949	1.00	14.16	A	N
ATOM	1690	C	GLN	A	126	-17.343	1.145	-61.083	1.00	30.89	A	C
ATOM	1691	O	GLN	A	126	-16.197	1.231	-61.512	1.00	33.51	A	O
ATOM	1693	N	ARG	A	127	-17.988	2.153	-60.512	1.00	33.83	A	N
ATOM	1694	CA	ARG	A	127	-17.376	3.451	-60.291	1.00	34.13	A	C
ATOM	1696	CB	ARG	A	127	-18.417	4.533	-60.572	1.00	37.02	A	C
ATOM	1699	CG	ARG	A	127	-17.869	5.946	-60.715	1.00	41.30	A	C
ATOM	1702	CD	ARG	A	127	-18.941	6.915	-61.265	1.00	39.98	A	C
ATOM	1705	NE	ARG	A	127	-19.246	6.617	-62.664	1.00	38.47	A	N
ATOM	1707	CZ	ARG	A	127	-18.464	6.934	-63.695	1.00	41.59	A	C
ATOM	1708	NH1	ARG	A	127	-17.313	7.573	-63.509	1.00	39.96	A	N
ATOM	1711	NH2	ARG	A	127	-18.831	6.601	-64.932	1.00	43.49	A	N
ATOM	1714	C	ARG	A	127	-16.826	3.545	-58.857	1.00	32.75	A	C
ATOM	1715	O	ARG	A	127	-15.886	4.297	-58.604	1.00	32.40	A	O
ATOM	1717	N	VAL	A	128	-17.405	2.765	-57.938	1.00	31.02	A	N
ATOM	1718	CA	VAL	A	128	-17.062	2.804	-56.513	1.00	27.97	A	C
ATOM	1720	CB	VAL	A	128	-18.278	2.450	-55.623	1.00	23.37	A	C
ATOM	1722	CG1	VAL	A	128	-17.986	2.685	-54.154	1.00	18.75	A	C
ATOM	1726	CG2	VAL	A	128	-19.488	3.279	-56.024	1.00	21.92	A	C
ATOM	1730	C	VAL	A	128	-15.900	1.844	-56.231	1.00	30.41	A	C
ATOM	1731	O	VAL	A	128	-16.021	0.619	-56.361	1.00	29.19	A	O
ATOM	1733	N	ASP	A	129	-14.760	2.416	-55.864	1.00	30.07	A	N
ATOM	1734	CA	ASP	A	129	-13.549	1.649	-55.654	1.00	28.11	A	C
ATOM	1736	CB	ASP	A	129	-12.346	2.587	-55.692	1.00	29.47	A	C
ATOM	1739	CG	ASP	A	129	-11.026	1.863	-55.692	1.00	30.18	A	C
ATOM	1740	OD1	ASP	A	129	-10.958	0.669	-55.333	1.00	33.10	A	O
ATOM	1741	OD2	ASP	A	129	-10.033	2.515	-56.053	1.00	33.04	A	O
ATOM	1742	C	ASP	A	129	-13.678	0.938	-54.316	1.00	28.31	A	C
ATOM	1743	O	ASP	A	129	-13.262	1.442	-53.287	1.00	29.24	A	O
ATOM	1745	N	ARG	A	130	-14.321	-0.220	-54.346	1.00	30.53	A	N
ATOM	1746	CA	ARG	A	130	-14.424	-1.094	-53.192	1.00	30.04	A	C
ATOM	1748	CB	ARG	A	130	-15.767	-0.893	-52.511	1.00	33.92	A	C
ATOM	1751	CG	ARG	A	130	-16.039	-1.790	-51.322	1.00	35.80	A	C
ATOM	1754	CD	ARG	A	130	-17.468	-1.565	-50.788	1.00	39.17	A	C
ATOM	1757	NE	ARG	A	130	-17.680	-2.219	-49.493	1.00	41.40	A	N
ATOM	1759	CZ	ARG	A	130	-17.443	-1.661	-48.300	1.00	46.86	A	C
ATOM	1760	NH1	ARG	A	130	-16.971	-0.415	-48.200	1.00	48.12	A	N
ATOM	1763	NH2	ARG	A	130	-17.682	-2.358	-47.185	1.00	46.18	A	N
ATOM	1766	C	ARG	A	130	-14.256	-2.529	-53.699	1.00	28.00	A	C
ATOM	1767	O	ARG	A	130	-14.777	-2.875	-54.760	1.00	26.51	A	O
ATOM	1769	N	ASP	A	131	-13.511	-3.344	-52.949	1.00	27.78	A	N
ATOM	1770	CA	ASP	A	131	-13.187	-4.714	-53.363	1.00	25.39	A	C
ATOM	1772	CB	ASP	A	131	-12.216	-5.387	-52.371	1.00	24.95	A	C
ATOM	1775	CG	ASP	A	131	-10.754	-5.051	-52.619	1.00	23.96	A	C
ATOM	1776	OD1	ASP	A	131	-10.361	-4.619	-53.723	1.00	25.08	A	O

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ATOM	1777	OD2	ASP	A	131	-9.977	-5.255	-51.677	1.00	23.47	A	O
ATOM	1778	C	ASP	A	131	-14.443	-5.559	-53.402	1.00	23.52	A	C
ATOM	1779	O	ASP	A	131	-15.295	-5.432	-52.532	1.00	19.47	A	O
ATOM	1781	N	VAL	A	132	-14.535	-6.442	-54.392	1.00	22.52	A	N
ATOM	1782	CA	VAL	A	132	-15.532	-7.497	-54.362	1.00	21.16	A	C
ATOM	1784	CB	VAL	A	132	-15.576	-8.302	-55.681	1.00	20.45	A	C
ATOM	1786	CG1	VAL	A	132	-16.623	-9.379	-55.617	1.00	14.62	A	C
ATOM	1790	CG2	VAL	A	132	-15.837	-7.389	-56.870	1.00	22.18	A	C
ATOM	1794	C	VAL	A	132	-15.158	-8.430	-53.217	1.00	18.80	A	C
ATOM	1795	O	VAL	A	132	-13.992	-8.835	-53.075	1.00	18.64	A	O
ATOM	1797	N	GLU	A	133	-16.141	-8.772	-52.394	1.00	15.31	A	N
ATOM	1798	CA	GLU	A	133	-15.892	-9.622	-51.246	1.00	21.58	A	C
ATOM	1800	CB	GLU	A	133	-17.151	-9.796	-50.396	1.00	22.06	A	C
ATOM	1803	CG	GLU	A	133	-17.641	-8.524	-49.766	1.00	26.27	A	C
ATOM	1806	CD	GLU	A	133	-19.041	-8.663	-49.163	1.00	27.46	A	C
ATOM	1807	OE1	GLU	A	133	-19.952	-7.925	-49.601	1.00	37.11	A	O
ATOM	1808	OE2	GLU	A	133	-19.228	-9.514	-48.269	1.00	29.31	A	O
ATOM	1809	C	GLU	A	133	-15.420	-10.990	-51.710	1.00	25.15	A	C
ATOM	1810	O	GLU	A	133	-15.907	-11.501	-52.720	1.00	24.26	A	O
ATOM	1812	N	PRO	A	134	-14.468	-11.585	-50.974	1.00	24.40	A	N
ATOM	1813	CA	PRO	A	134	-14.053	-12.941	-51.259	1.00	20.18	A	C
ATOM	1815	CB	PRO	A	134	-13.000	-13.212	-50.181	1.00	24.61	A	C
ATOM	1818	CG	PRO	A	134	-12.485	-11.887	-49.830	1.00	25.72	A	C
ATOM	1821	CD	PRO	A	134	-13.704	-11.024	-49.846	1.00	24.65	A	C
ATOM	1824	C	PRO	A	134	-15.178	-13.972	-51.196	1.00	19.06	A	C
ATOM	1825	O	PRO	A	134	-16.071	-13.903	-50.320	1.00	23.00	A	O
ATOM	1826	N	GLY	A	135	-15.138	-14.901	-52.151	1.00	16.00	A	N
ATOM	1827	CA	GLY	A	135	-16.135	-15.969	-52.286	1.00	19.31	A	C
ATOM	1830	C	GLY	A	135	-17.420	-15.591	-53.022	1.00	18.48	A	C
ATOM	1831	O	GLY	A	135	-18.322	-16.424	-53.165	1.00	20.40	A	O
ATOM	1833	N	THR	A	136	-17.510	-14.341	-53.478	1.00	18.76	A	N
ATOM	1834	CA	THR	A	136	-18.633	-13.880	-54.286	1.00	20.67	A	C
ATOM	1836	CB	THR	A	136	-18.615	-12.349	-54.505	1.00	19.72	A	C
ATOM	1838	OG1	THR	A	136	-18.633	-11.661	-53.243	1.00	17.99	A	O
ATOM	1840	CG2	THR	A	136	-19.819	-11.940	-55.320	1.00	20.71	A	C
ATOM	1844	C	THR	A	136	-18.518	-14.539	-55.645	1.00	20.59	A	C
ATOM	1845	O	THR	A	136	-17.415	-14.670	-56.169	1.00	18.04	A	O
ATOM	1847	N	LEU	A	137	-19.641	-14.979	-56.201	1.00	19.97	A	N
ATOM	1848	CA	LEU	A	137	-19.612	-15.657	-57.488	1.00	19.18	A	C
ATOM	1850	CB	LEU	A	137	-20.753	-16.659	-57.609	1.00	20.25	A	C
ATOM	1853	CG	LEU	A	137	-20.765	-17.816	-56.610	1.00	21.94	A	C
ATOM	1855	CD1	LEU	A	137	-22.002	-18.690	-56.843	1.00	21.46	A	C
ATOM	1859	CD2	LEU	A	137	-19.506	-18.616	-56.734	1.00	13.55	A	C
ATOM	1863	C	LEU	A	137	-19.723	-14.632	-58.583	1.00	15.01	A	C
ATOM	1864	O	LEU	A	137	-20.642	-13.829	-58.593	1.00	11.15	A	O
ATOM	1866	N	CYS	A	138	-18.783	-14.658	-59.518	1.00	13.68	A	N
ATOM	1867	CA	CYS	A	138	-18.829	-13.748	-60.661	1.00	15.36	A	C
ATOM	1869	CB	CYS	A	138	-17.684	-12.727	-60.614	1.00	16.13	A	C
ATOM	1872	SG	CYS	A	138	-17.641	-11.707	-59.094	1.00	21.12	A	S
ATOM	1874	C	CYS	A	138	-18.764	-14.544	-61.943	1.00	17.49	A	C
ATOM	1875	O	CYS	A	138	-18.321	-15.667	-61.952	1.00	19.85	A	O
ATOM	1877	N	ASP	A	139	-19.173	-13.916	-63.032	1.00	19.19	A	N
ATOM	1878	CA	ASP	A	139	-19.345	-14.581	-64.299	1.00	15.10	A	C
ATOM	1880	CB	ASP	A	139	-20.740	-14.264	-64.819	1.00	17.61	A	C
ATOM	1883	CG	ASP	A	139	-21.160	-15.174	-65.928	1.00	21.30	A	C
ATOM	1884	OD1	ASP	A	139	-21.399	-16.352	-65.648	1.00	25.60	A	O
ATOM	1885	OD2	ASP	A	139	-21.239	-14.716	-67.077	1.00	23.89	A	O
ATOM	1886	C	ASP	A	139	-18.283	-14.057	-65.259	1.00	15.36	A	C
ATOM	1887	O	ASP	A	139	-18.126	-12.848	-65.417	1.00	18.19	A	O
ATOM	1889	N	VAL	A	140	-17.546	-14.968	-65.877	1.00	18.90	A	N
ATOM	1890	CA	VAL	A	140	-16.601	-14.608	-66.941	1.00	18.35	A	C
ATOM	1892	CB	VAL	A	140	-15.122	-14.901	-66.539	1.00	22.08	A	C
ATOM	1894	CG1	VAL	A	140	-14.921	-16.356	-66.193	1.00	21.93	A	C
ATOM	1898	CG2	VAL	A	140	-14.117	-14.463	-67.648	1.00	23.84	A	C
ATOM	1902	C	VAL	A	140	-17.061	-15.333	-68.202	1.00	18.31	A	C
ATOM	1903	O	VAL	A	140	-17.445	-16.504	-68.150	1.00	17.82	A	O
ATOM	1905	N	ALA	A	141	-17.096	-14.608	-69.317	1.00	21.26	A	N
ATOM	1906	CA	ALA	A	141	-17.490	-15.162	-70.615	1.00	19.01	A	C

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ATOM	1908	CB	ALA	A	141	-18.751	-14.500	-71.118	1.00	17.39	A	C
ATOM	1912	C	ALA	A	141	-16.360	-14.967	-71.610	1.00	20.81	A	C
ATOM	1913	O	ALA	A	141	-15.548	-14.072	-71.457	1.00	22.40	A	O
ATOM	1915	N	GLY	A	142	-16.288	-15.827	-72.621	1.00	22.29	A	N
ATOM	1916	CA	GLY	A	142	-15.306	-15.632	-73.681	1.00	19.78	A	C
ATOM	1919	C	GLY	A	142	-15.312	-16.707	-74.745	1.00	20.65	A	C
ATOM	1920	O	GLY	A	142	-15.984	-17.732	-74.614	1.00	21.03	A	O
ATOM	1922	N	TRP	A	143	-14.507	-16.465	-75.779	1.00	28.34	A	N
ATOM	1923	CA	TRP	A	143	-14.278	-17.393	-76.881	1.00	22.99	A	C
ATOM	1925	CB	TRP	A	143	-14.507	-16.686	-78.222	1.00	25.86	A	C
ATOM	1928	CG	TRP	A	143	-15.937	-16.410	-78.552	1.00	25.28	A	C
ATOM	1929	CD1	TRP	A	143	-16.807	-17.278	-79.103	1.00	23.95	A	C
ATOM	1931	NE1	TRP	A	143	-18.029	-16.680	-79.278	1.00	24.46	A	N
ATOM	1933	CE2	TRP	A	143	-17.967	-15.390	-78.829	1.00	23.90	A	C
ATOM	1934	CD2	TRP	A	143	-16.653	-15.177	-78.368	1.00	24.99	A	C
ATOM	1935	CE3	TRP	A	143	-16.316	-13.923	-77.848	1.00	21.01	A	C
ATOM	1937	CZ3	TRP	A	143	-17.278	-12.944	-77.809	1.00	24.74	A	C
ATOM	1939	CH2	TRP	A	143	-18.583	-13.176	-78.283	1.00	23.16	A	C
ATOM	1941	CZ2	TRP	A	143	-18.948	-14.394	-78.793	1.00	24.14	A	C
ATOM	1943	C	TRP	A	143	-12.846	-17.909	-76.822	1.00	29.13	A	C
ATOM	1944	O	TRP	A	143	-12.305	-18.415	-77.820	1.00	27.75	A	O
ATOM	1946	N	GLY	A	144	-12.250	-17.793	-75.638	1.00	27.30	A	N
ATOM	1947	CA	GLY	A	144	-10.943	-18.339	-75.375	1.00	28.04	A	C
ATOM	1950	C	GLY	A	144	-10.963	-19.850	-75.320	1.00	27.63	A	C
ATOM	1951	O	GLY	A	144	-12.025	-20.464	-75.246	1.00	28.04	A	O
ATOM	1953	N	ILE	A	145	-9.771	-20.432	-75.355	1.00	26.81	A	N
ATOM	1954	CA	ILE	A	145	-9.597	-21.888	-75.442	1.00	29.71	A	C
ATOM	1956	CB	ILE	A	145	-8.080	-22.271	-75.431	1.00	32.32	A	C
ATOM	1958	CG1	ILE	A	145	-7.419	-21.937	-74.083	1.00	31.00	A	C
ATOM	1961	CD1	ILE	A	145	-5.958	-22.280	-74.019	1.00	33.83	A	C
ATOM	1965	CG2	ILE	A	145	-7.362	-21.508	-76.537	1.00	30.15	A	C
ATOM	1969	C	ILE	A	145	-10.359	-22.631	-74.350	1.00	27.12	A	C
ATOM	1970	O	ILE	A	145	-10.476	-22.145	-73.237	1.00	30.94	A	O
ATOM	1972	N	VAL	A	146	-10.891	-23.796	-74.708	1.00	25.62	A	N
ATOM	1973	CA	VAL	A	146	-11.730	-24.609	-73.837	1.00	26.26	A	C
ATOM	1975	CB	VAL	A	146	-13.074	-24.958	-74.539	1.00	24.91	A	C
ATOM	1977	CG1	VAL	A	146	-14.002	-23.723	-74.566	1.00	15.51	A	C
ATOM	1981	CG2	VAL	A	146	-12.849	-25.479	-75.964	1.00	20.43	A	C
ATOM	1985	C	VAL	A	146	-11.026	-25.888	-73.347	1.00	27.98	A	C
ATOM	1986	O	VAL	A	146	-11.577	-26.639	-72.546	1.00	28.80	A	O
ATOM	1988	N	SER	A	147	-9.799	-26.089	-73.830	1.00	29.57	A	N
ATOM	1989	CA	SER	A	147	-8.971	-27.246	-73.545	1.00	31.21	A	C
ATOM	1991	CB	SER	A	147	-9.208	-28.296	-74.606	1.00	31.60	A	C
ATOM	1994	OG	SER	A	147	-8.566	-27.873	-75.801	1.00	29.89	A	O
ATOM	1996	C	SER	A	147	-7.512	-26.806	-73.649	1.00	34.49	A	C
ATOM	1997	O	SER	A	147	-7.188	-25.830	-74.329	1.00	33.82	A	O
ATOM	1999	N	HIS	A	148	-6.620	-27.546	-73.011	1.00	40.96	A	N
ATOM	2000	CA	HIS	A	148	-5.196	-27.218	-73.064	1.00	36.62	A	C
ATOM	2002	CB	HIS	A	148	-4.454	-27.890	-71.922	1.00	37.45	A	C
ATOM	2005	CG	HIS	A	148	-4.860	-27.385	-70.573	1.00	35.43	A	C
ATOM	2006	ND1	HIS	A	148	-5.642	-28.117	-69.703	1.00	34.93	A	N
ATOM	2008	CE1	HIS	A	148	-5.834	-27.417	-68.599	1.00	36.86	A	C
ATOM	2010	NE2	HIS	A	148	-5.209	-26.260	-68.721	1.00	31.81	A	N
ATOM	2012	CD2	HIS	A	148	-4.600	-26.213	-69.949	1.00	34.81	A	C
ATOM	2014	C	HIS	A	148	-4.554	-27.516	-74.418	1.00	33.43	A	C
ATOM	2015	O	HIS	A	148	-3.572	-26.868	-74.772	1.00	33.76	A	O
ATOM	2017	N	ALA	A	149	-5.123	-28.457	-75.175	1.00	35.18	A	N
ATOM	2018	CA	ALA	A	149	-4.736	-28.700	-76.579	1.00	41.68	A	C
ATOM	2020	CB	ALA	A	149	-5.564	-29.879	-77.182	1.00	38.00	A	C
ATOM	2024	C	ALA	A	149	-4.876	-27.434	-77.454	1.00	44.39	A	C
ATOM	2025	O	ALA	A	149	-4.290	-27.342	-78.533	1.00	45.28	A	O
ATOM	2027	N	GLY	A	150	-5.672	-26.477	-76.979	1.00	45.22	A	N
ATOM	2028	CA	GLY	A	150	-5.784	-25.151	-77.586	1.00	43.96	A	C
ATOM	2031	C	GLY	A	150	-7.001	-24.994	-78.477	1.00	43.10	A	C
ATOM	2032	O	GLY	A	150	-6.976	-24.191	-79.415	1.00	38.65	A	O
ATOM	2034	N	ARG	A	151	-8.066	-25.752	-78.197	1.00	42.16	A	N
ATOM	2035	CA	ARG	A	151	-9.253	-25.705	-79.050	1.00	46.11	A	C
ATOM	2037	CB	ARG	A	151	-10.172	-26.913	-78.869	1.00	45.34	A	C

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ATOM	2040	CG	ARG	A	151	-11.349	-26.822	-79.812	1.00	43.91	A	C
ATOM	2043	CD	ARG	A	151	-12.289	-27.973	-79.709	1.00	48.15	A	C
ATOM	2046	NE	ARG	A	151	-13.626	-27.450	-79.449	1.00	53.50	A	N
ATOM	2048	CZ	ARG	A	151	-14.305	-27.591	-78.312	1.00	52.84	A	C
ATOM	2049	NH1	ARG	A	151	-13.819	-28.302	-77.286	1.00	54.12	A	N
ATOM	2052	NH2	ARG	A	151	-15.501	-27.030	-78.217	1.00	47.80	A	N
ATOM	2055	C	ARG	A	151	-10.055	-24.423	-78.823	1.00	45.78	A	C
ATOM	2056	O	ARG	A	151	-10.424	-24.097	-77.686	1.00	36.87	A	O
ATOM	2058	N	ARG	A	152	-10.319	-23.725	-79.925	1.00	45.20	A	N
ATOM	2059	CA	ARG	A	152	-11.080	-22.493	-79.907	1.00	46.08	A	C
ATOM	2061	CB	ARG	A	152	-10.538	-21.528	-80.965	1.00	49.84	A	C
ATOM	2064	CG	ARG	A	152	-9.054	-21.230	-80.792	1.00	50.26	A	C
ATOM	2067	CD	ARG	A	152	-8.503	-20.316	-81.876	1.00	54.44	A	C
ATOM	2070	NE	ARG	A	152	-7.066	-20.531	-82.065	1.00	58.49	A	N
ATOM	2072	CZ	ARG	A	152	-6.222	-19.685	-82.668	1.00	61.42	A	C
ATOM	2073	NH1	ARG	A	152	-6.650	-18.530	-83.178	1.00	60.62	A	N
ATOM	2076	NH2	ARG	A	152	-4.925	-20.004	-82.763	1.00	58.93	A	N
ATOM	2079	C	ARG	A	152	-12.552	-22.834	-80.150	1.00	44.99	A	C
ATOM	2080	O	ARG	A	152	-12.874	-23.509	-81.129	1.00	44.36	A	O
ATOM	2082	N	PRO	A	153	-13.449	-22.409	-79.234	1.00	39.93	A	N
ATOM	2083	CA	PRO	A	153	-14.860	-22.629	-79.461	1.00	36.36	A	C
ATOM	2085	CB	PRO	A	153	-15.476	-22.375	-78.081	1.00	36.05	A	C
ATOM	2088	CG	PRO	A	153	-14.622	-21.368	-77.492	1.00	34.25	A	C
ATOM	2091	CD	PRO	A	153	-13.225	-21.717	-77.953	1.00	39.12	A	C
ATOM	2094	C	PRO	A	153	-15.411	-21.644	-80.481	1.00	31.32	A	C
ATOM	2095	O	PRO	A	153	-14.953	-20.504	-80.559	1.00	34.16	A	O
ATOM	2096	N	ASP	A	154	-16.377	-22.108	-81.261	1.00	30.93	A	N
ATOM	2097	CA	ASP	A	154	-17.140	-21.262	-82.162	1.00	30.67	A	C
ATOM	2099	CB	ASP	A	154	-17.912	-22.123	-83.172	1.00	25.39	A	C
ATOM	2102	CG	ASP	A	154	-18.667	-21.299	-84.175	1.00	26.76	A	C
ATOM	2103	OD1	ASP	A	154	-18.031	-20.474	-84.851	1.00	24.57	A	O
ATOM	2104	OD2	ASP	A	154	-19.901	-21.462	-84.279	1.00	27.62	A	O
ATOM	2105	C	ASP	A	154	-18.123	-20.403	-81.371	1.00	28.56	A	C
ATOM	2106	O	ASP	A	154	-18.357	-19.253	-81.712	1.00	24.83	A	O
ATOM	2108	N	ARG	A	155	-18.712	-20.975	-80.328	1.00	28.26	A	N
ATOM	2109	CA	ARG	A	155	-19.768	-20.293	-79.596	1.00	27.71	A	C
ATOM	2111	CB	ARG	A	155	-20.991	-21.189	-79.476	1.00	29.20	A	C
ATOM	2114	CG	ARG	A	155	-21.708	-21.304	-80.805	1.00	33.28	A	C
ATOM	2117	CD	ARG	A	155	-22.733	-22.366	-80.813	1.00	31.61	A	C
ATOM	2120	NE	ARG	A	155	-22.134	-23.666	-80.597	1.00	33.54	A	N
ATOM	2122	CZ	ARG	A	155	-22.827	-24.794	-80.557	1.00	35.30	A	C
ATOM	2123	NH1	ARG	A	155	-24.147	-24.782	-80.726	1.00	39.14	A	N
ATOM	2126	NH2	ARG	A	155	-22.200	-25.940	-80.349	1.00	36.27	A	N
ATOM	2129	C	ARG	A	155	-19.293	-19.803	-78.249	1.00	27.25	A	C
ATOM	2130	O	ARG	A	155	-18.368	-20.352	-77.665	1.00	31.25	A	O
ATOM	2132	N	LEU	A	156	-19.927	-18.740	-77.775	1.00	24.85	A	N
ATOM	2133	CA	LEU	A	156	-19.564	-18.120	-76.514	1.00	22.64	A	C
ATOM	2135	CB	LEU	A	156	-20.396	-16.860	-76.297	1.00	23.90	A	C
ATOM	2138	CG	LEU	A	156	-19.997	-16.035	-75.080	1.00	22.33	A	C
ATOM	2140	CD1	LEU	A	156	-18.586	-15.467	-75.249	1.00	13.18	A	C
ATOM	2144	CD2	LEU	A	156	-21.001	-14.969	-74.927	1.00	19.84	A	C
ATOM	2148	C	LEU	A	156	-19.734	-19.061	-75.315	1.00	20.76	A	C
ATOM	2149	O	LEU	A	156	-20.752	-19.729	-75.169	1.00	21.60	A	O
ATOM	2151	N	GLN	A	157	-18.723	-19.070	-74.454	1.00	23.15	A	N
ATOM	2152	CA	GLN	A	157	-18.698	-19.894	-73.263	1.00	20.93	A	C
ATOM	2154	CB	GLN	A	157	-17.459	-20.783	-73.272	1.00	21.93	A	C
ATOM	2157	CG	GLN	A	157	-17.237	-21.573	-74.560	1.00	25.99	A	C
ATOM	2160	CD	GLN	A	157	-18.204	-22.726	-74.707	1.00	26.63	A	C
ATOM	2161	OE1	GLN	A	157	-18.390	-23.509	-73.779	1.00	31.72	A	O
ATOM	2162	NE2	GLN	A	157	-18.829	-22.838	-75.877	1.00	27.16	A	N
ATOM	2165	C	GLN	A	157	-18.649	-18.991	-72.049	1.00	15.50	A	C
ATOM	2166	O	GLN	A	157	-18.204	-17.865	-72.128	1.00	16.34	A	O
ATOM	2168	N	HIS	A	158	-19.082	-19.501	-70.914	1.00	19.52	A	N
ATOM	2169	CA	HIS	A	158	-18.996	-18.735	-69.673	1.00	19.83	A	C
ATOM	2171	CB	HIS	A	158	-20.266	-17.901	-69.457	1.00	20.54	A	C
ATOM	2174	CG	HIS	A	158	-21.379	-18.677	-68.832	1.00	22.61	A	C
ATOM	2175	ND1	HIS	A	158	-22.038	-19.680	-69.502	1.00	20.53	A	N
ATOM	2177	CE1	HIS	A	158	-22.951	-20.207	-68.710	1.00	23.64	A	C

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ATOM	2179	NE2	HIS	A	158	-22.891	-19.598	-67.540	1.00	23.00	A	N
ATOM	2181	CD2	HIS	A	158	-21.916	-18.637	-67.589	1.00	22.29	A	C
ATOM	2183	C	HIS	A	158	-18.820	-19.692	-68.518	1.00	17.38	A	C
ATOM	2184	O	HIS	A	158	-18.979	-20.904	-68.671	1.00	17.10	A	O
ATOM	2186	N	VAL	A	159	-18.477	-19.135	-67.364	1.00	20.26	A	N
ATOM	2187	CA	VAL	A	159	-18.309	-19.919	-66.149	1.00	17.49	A	C
ATOM	2189	CB	VAL	A	159	-16.964	-20.788	-66.155	1.00	18.10	A	C
ATOM	2191	CG1	VAL	A	159	-15.686	-19.944	-66.109	1.00	8.59	A	C
ATOM	2195	CG2	VAL	A	159	-16.982	-21.863	-65.010	1.00	16.09	A	C
ATOM	2199	C	VAL	A	159	-18.463	-18.994	-64.948	1.00	18.69	A	C
ATOM	2200	O	VAL	A	159	-18.087	-17.821	-64.996	1.00	16.96	A	O
ATOM	2202	N	LEU	A	160	-19.101	-19.507	-63.902	1.00	19.74	A	N
ATOM	2203	CA	LEU	A	160	-19.296	-18.762	-62.671	1.00	19.02	A	C
ATOM	2205	CB	LEU	A	160	-20.680	-19.111	-62.105	1.00	19.54	A	C
ATOM	2208	CG	LEU	A	160	-21.446	-18.129	-61.229	1.00	19.36	A	C
ATOM	2210	CD1	LEU	A	160	-21.603	-16.742	-61.912	1.00	16.65	A	C
ATOM	2214	CD2	LEU	A	160	-22.825	-18.760	-60.875	1.00	13.16	A	C
ATOM	2218	C	LEU	A	160	-18.162	-19.100	-61.681	1.00	19.79	A	C
ATOM	2219	O	LEU	A	160	-18.045	-20.233	-61.235	1.00	24.92	A	O
ATOM	2221	N	LEU	A	161	-17.330	-18.112	-61.354	1.00	18.59	A	N
ATOM	2222	CA	LEU	A	161	-16.133	-18.305	-60.536	1.00	21.76	A	C
ATOM	2224	CB	LEU	A	161	-14.888	-17.804	-61.282	1.00	23.47	A	C
ATOM	2227	CG	LEU	A	161	-14.426	-18.440	-62.597	1.00	21.99	A	C
ATOM	2229	CD1	LEU	A	161	-13.130	-17.766	-63.064	1.00	18.36	A	C
ATOM	2233	CD2	LEU	A	161	-14.222	-19.911	-62.439	1.00	22.70	A	C
ATOM	2237	C	LEU	A	161	-16.220	-17.560	-59.187	1.00	24.45	A	C
ATOM	2238	O	LEU	A	161	-16.679	-16.415	-59.129	1.00	25.20	A	O
ATOM	2240	N	PRO	A	162	-15.775	-18.204	-58.095	1.00	24.12	A	N
ATOM	2241	CA	PRO	A	162	-15.684	-17.481	-56.806	1.00	19.46	A	C
ATOM	2243	CB	PRO	A	162	-15.664	-18.598	-55.757	1.00	20.25	A	C
ATOM	2246	CG	PRO	A	162	-15.349	-19.895	-56.520	1.00	20.47	A	C
ATOM	2249	CD	PRO	A	162	-15.348	-19.613	-57.998	1.00	20.78	A	C
ATOM	2252	C	PRO	A	162	-14.441	-16.574	-56.675	1.00	18.90	A	C
ATOM	2253	O	PRO	A	162	-13.322	-16.970	-57.013	1.00	20.24	A	O
ATOM	2254	N	VAL	A	163	-14.659	-15.356	-56.191	1.00	21.80	A	N
ATOM	2255	CA	VAL	A	163	-13.585	-14.404	-55.975	1.00	20.89	A	C
ATOM	2257	CB	VAL	A	163	-14.168	-12.982	-55.760	1.00	21.63	A	C
ATOM	2259	CG1	VAL	A	163	-13.136	-12.010	-55.234	1.00	20.25	A	C
ATOM	2263	CG2	VAL	A	163	-14.730	-12.459	-57.074	1.00	19.97	A	C
ATOM	2267	C	VAL	A	163	-12.658	-14.905	-54.829	1.00	24.06	A	C
ATOM	2268	O	VAL	A	163	-13.119	-15.367	-53.782	1.00	26.39	A	O
ATOM	2270	N	LEU	A	164	-11.353	-14.854	-55.078	1.00	20.04	A	N
ATOM	2271	CA	LEU	A	164	-10.340	-15.294	-54.142	1.00	20.58	A	C
ATOM	2273	CB	LEU	A	164	-9.289	-16.133	-54.881	1.00	18.41	A	C
ATOM	2276	CG	LEU	A	164	-8.174	-16.813	-54.084	1.00	20.38	A	C
ATOM	2278	CD1	LEU	A	164	-8.716	-17.893	-53.142	1.00	17.03	A	C
ATOM	2282	CD2	LEU	A	164	-7.145	-17.395	-55.055	1.00	21.63	A	C
ATOM	2286	C	LEU	A	164	-9.710	-14.035	-53.563	1.00	20.51	A	C
ATOM	2287	O	LEU	A	164	-9.264	-13.168	-54.311	1.00	24.96	A	O
ATOM	2289	N	ASP	A	165	-9.682	-13.939	-52.233	1.00	20.22	A	N
ATOM	2290	CA	ASP	A	165	-9.082	-12.805	-51.553	1.00	17.69	A	C
ATOM	2292	CB	ASP	A	165	-9.136	-12.999	-50.038	1.00	23.18	A	C
ATOM	2295	CG	ASP	A	165	-8.150	-14.022	-49.545	1.00	29.87	A	C
ATOM	2296	OD1	ASP	A	165	-7.026	-13.628	-49.160	1.00	30.87	A	O
ATOM	2297	OD2	ASP	A	165	-8.491	-15.218	-49.563	1.00	34.33	A	O
ATOM	2298	C	ASP	A	165	-7.628	-12.529	-52.019	1.00	22.45	A	C
ATOM	2299	O	ASP	A	165	-6.926	-13.422	-52.479	1.00	20.10	A	O
ATOM	2301	N	ARG	A	166	-7.180	-11.288	-51.868	1.00	21.60	A	N
ATOM	2302	CA	ARG	A	166	-5.911	-10.868	-52.440	1.00	22.03	A	C
ATOM	2304	CB	ARG	A	166	-5.831	-9.334	-52.470	1.00	19.86	A	C
ATOM	2307	CG	ARG	A	166	-4.674	-8.815	-53.308	1.00	24.19	A	C
ATOM	2310	CD	ARG	A	166	-4.748	-7.303	-53.491	1.00	24.63	A	C
ATOM	2313	NE	ARG	A	166	-5.852	-6.904	-54.349	1.00	26.26	A	N
ATOM	2315	CZ	ARG	A	166	-7.007	-6.389	-53.932	1.00	21.16	A	C
ATOM	2316	NH1	ARG	A	166	-7.269	-6.191	-52.644	1.00	18.22	A	N
ATOM	2319	NH2	ARG	A	166	-7.924	-6.077	-54.827	1.00	26.25	A	N
ATOM	2322	C	ARG	A	166	-4.694	-11.474	-51.732	1.00	18.59	A	C
ATOM	2323	O	ARG	A	166	-3.690	-11.749	-52.382	1.00	21.13	A	O

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ATOM	2325	N	ALA	A	167	-4.804	-11.703	-50.421	1.00	18.53	A	N
ATOM	2326	CA	ALA	A	167	-3.698	-12.192	-49.593	1.00	18.47	A	C
ATOM	2328	CB	ALA	A	167	-4.014	-12.059	-48.096	1.00	19.96	A	C
ATOM	2332	C	ALA	A	167	-3.381	-13.638	-49.964	1.00	21.72	A	C
ATOM	2333	O	ALA	A	167	-2.213	-13.983	-50.253	1.00	24.85	A	O
ATOM	2335	N	THR	A	168	-4.415	-14.472	-50.036	1.00	20.26	A	N
ATOM	2336	CA	THR	A	168	-4.233	-15.822	-50.577	1.00	20.44	A	C
ATOM	2338	CB	THR	A	168	-5.558	-16.565	-50.694	1.00	18.81	A	C
ATOM	2340	OG1	THR	A	168	-6.097	-16.784	-49.384	1.00	22.97	A	O
ATOM	2342	CG2	THR	A	168	-5.367	-17.902	-51.405	1.00	21.73	A	C
ATOM	2346	C	THR	A	168	-3.584	-15.764	-51.962	1.00	23.35	A	C
ATOM	2347	O	THR	A	168	-2.629	-16.490	-52.244	1.00	21.77	A	O
ATOM	2349	N	CYS	A	169	-4.092	-14.877	-52.814	1.00	24.99	A	N
ATOM	2350	CA	CYS	A	169	-3.619	-14.776	-54.195	1.00	22.71	A	C
ATOM	2352	CB	CYS	A	169	-4.552	-13.843	-54.990	1.00	22.88	A	C
ATOM	2355	SG	CYS	A	169	-4.419	-14.130	-56.761	1.00	29.22	A	S
ATOM	2357	C	CYS	A	169	-2.153	-14.312	-54.318	1.00	21.42	A	C
ATOM	2358	O	CYS	A	169	-1.479	-14.572	-55.338	1.00	23.65	A	O
ATOM	2360	N	ASN	A	170	-1.671	-13.610	-53.291	1.00	23.92	A	N
ATOM	2361	CA	ASN	A	170	-0.285	-13.138	-53.235	1.00	23.63	A	C
ATOM	2363	CB	ASN	A	170	-0.211	-11.745	-52.594	1.00	18.85	A	C
ATOM	2366	CG	ASN	A	170	-0.416	-10.632	-53.600	1.00	22.74	A	C
ATOM	2367	OD1	ASN	A	170	0.032	-10.728	-54.756	1.00	19.40	A	O
ATOM	2368	ND2	ASN	A	170	-1.062	-9.559	-53.168	1.00	18.56	A	N
ATOM	2371	C	ASN	A	170	0.722	-14.084	-52.547	1.00	24.40	A	C
ATOM	2372	O	ASN	A	170	1.924	-13.848	-52.619	1.00	22.92	A	O
ATOM	2374	N	ARG	A	171	0.241	-15.128	-51.882	1.00	25.33	A	N
ATOM	2375	CA	ARG	A	171	1.110	-16.222	-51.426	1.00	23.63	A	C
ATOM	2377	CB	ARG	A	171	0.287	-17.454	-51.058	1.00	23.21	A	C
ATOM	2380	CG	ARG	A	171	0.151	-17.676	-49.568	1.00	27.77	A	C
ATOM	2383	CD	ARG	A	171	-0.382	-19.038	-49.251	1.00	31.54	A	C
ATOM	2386	NE	ARG	A	171	-1.774	-18.912	-48.863	1.00	37.50	A	N
ATOM	2388	CZ	ARG	A	171	-2.766	-19.709	-49.246	1.00	39.05	A	C
ATOM	2389	NH1	ARG	A	171	-3.999	-19.451	-48.809	1.00	43.84	A	N
ATOM	2392	NH2	ARG	A	171	-2.561	-20.739	-50.055	1.00	31.78	A	N
ATOM	2395	C	ARG	A	171	2.105	-16.597	-52.513	1.00	22.78	A	C
ATOM	2396	O	ARG	A	171	1.755	-16.570	-53.686	1.00	21.17	A	O
ATOM	2398	N	ARG	A	172	3.338	-16.955	-52.130	1.00	22.43	A	N
ATOM	2399	CA	ARG	A	172	4.387	-17.213	-53.120	1.00	26.74	A	C
ATOM	2401	CB	ARG	A	172	5.739	-17.486	-52.434	1.00	27.50	A	C
ATOM	2404	CG	ARG	A	172	5.820	-18.800	-51.691	1.00	25.13	A	C
ATOM	2407	CD	ARG	A	172	7.087	-18.888	-50.893	1.00	27.27	A	C
ATOM	2410	NE	ARG	A	172	6.951	-18.209	-49.608	1.00	27.02	A	N
ATOM	2412	CZ	ARG	A	172	7.958	-18.014	-48.768	1.00	25.71	A	C
ATOM	2413	NH1	ARG	A	172	9.198	-18.406	-49.085	1.00	20.19	A	N
ATOM	2416	NH2	ARG	A	172	7.729	-17.387	-47.617	1.00	28.46	A	N
ATOM	2419	C	ARG	A	172	4.039	-18.349	-54.076	1.00	24.36	A	C
ATOM	2420	O	ARG	A	172	4.496	-18.356	-55.228	1.00	25.99	A	O
ATOM	2422	N	THR	A	173	3.229	-19.301	-53.607	1.00	25.42	A	N
ATOM	2423	CA	THR	A	173	2.751	-20.392	-54.473	1.00	25.47	A	C
ATOM	2425	CB	THR	A	173	1.818	-21.346	-53.729	1.00	20.22	A	C
ATOM	2427	OG1	THR	A	173	2.294	-21.552	-52.398	1.00	16.95	A	O
ATOM	2429	CG2	THR	A	173	1.740	-22.673	-54.457	1.00	23.50	A	C
ATOM	2433	C	THR	A	173	1.943	-19.881	-55.654	1.00	27.26	A	C
ATOM	2434	O	THR	A	173	1.870	-20.535	-56.703	1.00	26.37	A	O
ATOM	2436	N	HIS	A	174	1.310	-18.724	-55.453	1.00	27.47	A	N
ATOM	2437	CA	HIS	A	174	0.382	-18.149	-56.402	1.00	25.23	A	C
ATOM	2439	CB	HIS	A	174	-0.921	-17.803	-55.685	1.00	25.54	A	C
ATOM	2442	CG	HIS	A	174	-1.526	-18.982	-55.002	1.00	22.85	A	C
ATOM	2443	ND1	HIS	A	174	-2.237	-18.885	-53.830	1.00	24.48	A	N
ATOM	2445	CE1	HIS	A	174	-2.634	-20.092	-53.458	1.00	24.84	A	C
ATOM	2447	NE2	HIS	A	174	-2.199	-20.967	-54.344	1.00	24.16	A	N
ATOM	2449	CD2	HIS	A	174	-1.480	-20.302	-55.307	1.00	20.64	A	C
ATOM	2451	C	HIS	A	174	1.033	-16.994	-57.119	1.00	26.13	A	C
ATOM	2452	O	HIS	A	174	1.945	-17.217	-57.913	1.00	29.10	A	O
ATOM	2454	N	HIS	A	175	0.605	-15.765	-56.871	1.00	30.72	A	N
ATOM	2455	CA	HIS	A	175	1.133	-14.671	-57.666	1.00	25.85	A	C
ATOM	2457	CB	HIS	A	175	-0.019	-13.890	-58.284	1.00	25.40	A	C

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ATOM	2460	CG	HIS	A	175	-0.761	-14.677	-59.314	1.00	27.33	A	C
ATOM	2461	ND1	HIS	A	175	-0.156	-15.154	-60.462	1.00	25.47	A	N
ATOM	2463	CE1	HIS	A	175	-1.046	-15.812	-61.179	1.00	25.76	A	C
ATOM	2465	NE2	HIS	A	175	-2.203	-15.787	-60.537	1.00	28.33	A	N
ATOM	2467	CD2	HIS	A	175	-2.048	-15.095	-59.362	1.00	23.27	A	C
ATOM	2469	C	HIS	A	175	2.170	-13.809	-56.968	1.00	26.70	A	C
ATOM	2470	O	HIS	A	175	2.669	-12.857	-57.571	1.00	30.20	A	O
ATOM	2472	N	ASP	A	176	2.493	-14.145	-55.713	1.00	26.66	A	N
ATOM	2473	CA	ASP	A	176	3.762	-13.757	-55.105	1.00	25.62	A	C
ATOM	2475	CB	ASP	A	176	4.916	-14.398	-55.909	1.00	26.96	A	C
ATOM	2478	CG	ASP	A	176	6.195	-14.591	-55.095	1.00	25.57	A	C
ATOM	2479	OD1	ASP	A	176	6.221	-14.332	-53.870	1.00	21.71	A	O
ATOM	2480	OD2	ASP	A	176	7.201	-15.026	-55.705	1.00	27.90	A	O
ATOM	2481	C	ASP	A	176	3.924	-12.229	-55.035	1.00	25.46	A	C
ATOM	2482	O	ASP	A	176	4.996	-11.695	-55.336	1.00	23.03	A	O
ATOM	2484	N	GLY	A	177	2.847	-11.551	-54.647	1.00	21.78	A	N
ATOM	2485	CA	GLY	A	177	2.822	-10.096	-54.454	1.00	20.61	A	C
ATOM	2488	C	GLY	A	177	2.427	-9.257	-55.662	1.00	22.71	A	C
ATOM	2489	O	GLY	A	177	2.288	-8.042	-55.544	1.00	26.55	A	O
ATOM	2491	N	ALA	A	178	2.275	-9.901	-56.819	1.00	26.13	A	N
ATOM	2492	CA	ALA	A	178	1.990	-9.237	-58.106	1.00	25.28	A	C
ATOM	2494	CB	ALA	A	178	2.232	-10.228	-59.278	1.00	24.14	A	C
ATOM	2498	C	ALA	A	178	0.581	-8.654	-58.200	1.00	27.53	A	C
ATOM	2499	O	ALA	A	178	0.330	-7.779	-59.030	1.00	30.65	A	O
ATOM	2501	N	ILE	A	179	-0.326	-9.131	-57.342	1.00	26.84	A	N
ATOM	2502	CA	ILE	A	179	-1.707	-8.644	-57.298	1.00	27.21	A	C
ATOM	2504	CB	ILE	A	179	-2.703	-9.723	-56.756	1.00	23.00	A	C
ATOM	2506	CG1	ILE	A	179	-2.406	-11.109	-57.360	1.00	20.36	A	C
ATOM	2509	CD1	ILE	A	179	-2.091	-11.124	-58.878	1.00	17.33	A	C
ATOM	2513	CG2	ILE	A	179	-4.161	-9.290	-56.997	1.00	18.33	A	C
ATOM	2517	C	ILE	A	179	-1.798	-7.384	-56.430	1.00	27.98	A	C
ATOM	2518	O	ILE	A	179	-1.788	-7.452	-55.193	1.00	31.45	A	O
ATOM	2520	N	THR	A	180	-1.891	-6.242	-57.103	1.00	25.23	A	N
ATOM	2521	CA	THR	A	180	-1.995	-4.940	-56.457	1.00	29.01	A	C
ATOM	2523	CB	THR	A	180	-1.479	-3.796	-57.367	1.00	30.06	A	C
ATOM	2525	OG1	THR	A	180	-2.406	-3.560	-58.436	1.00	31.95	A	O
ATOM	2527	CG2	THR	A	180	-0.107	-4.103	-57.933	1.00	29.98	A	C
ATOM	2531	C	THR	A	180	-3.446	-4.656	-56.120	1.00	29.88	A	C
ATOM	2532	O	THR	A	180	-4.330	-5.477	-56.371	1.00	30.84	A	O
ATOM	2534	N	GLN	A	181	-3.685	-3.476	-55.559	1.00	32.25	A	N
ATOM	2535	CA	GLN	A	181	-5.034	-3.024	-55.230	1.00	27.50	A	C
ATOM	2537	CB	GLN	A	181	-4.987	-1.709	-54.447	1.00	34.08	A	C
ATOM	2540	CG	GLN	A	181	-6.148	-1.521	-53.494	1.00	34.95	A	C
ATOM	2543	CD	GLN	A	181	-6.038	-2.398	-52.263	1.00	38.74	A	C
ATOM	2544	OE1	GLN	A	181	-6.990	-2.542	-51.496	1.00	41.65	A	O
ATOM	2545	NE2	GLN	A	181	-4.877	-2.999	-52.075	1.00	38.41	A	N
ATOM	2548	C	GLN	A	181	-5.914	-2.821	-56.445	1.00	20.22	A	C
ATOM	2549	O	GLN	A	181	-7.123	-2.827	-56.308	1.00	21.70	A	O
ATOM	2551	N	ARG	A	182	-5.315	-2.658	-57.624	1.00	20.91	A	N
ATOM	2552	CA	ARG	A	182	-6.045	-2.409	-58.865	1.00	26.89	A	C
ATOM	2554	CB	ARG	A	182	-5.249	-1.506	-59.836	1.00	35.06	A	C
ATOM	2557	CG	ARG	A	182	-4.269	-0.490	-59.232	1.00	40.34	A	C
ATOM	2560	CD	ARG	A	182	-4.904	0.784	-58.736	1.00	47.01	A	C
ATOM	2563	NE	ARG	A	182	-5.192	1.755	-59.798	1.00	52.05	A	N
ATOM	2565	CZ	ARG	A	182	-4.282	2.453	-60.484	1.00	53.87	A	C
ATOM	2566	NH1	ARG	A	182	-2.975	2.309	-60.252	1.00	56.05	A	N
ATOM	2569	NH2	ARG	A	182	-4.691	3.309	-61.424	1.00	51.91	A	N
ATOM	2572	C	ARG	A	182	-6.390	-3.722	-59.581	1.00	29.98	A	C
ATOM	2573	O	ARG	A	182	-6.832	-3.707	-60.729	1.00	32.16	A	O
ATOM	2575	N	MET	A	183	-6.186	-4.846	-58.892	1.00	29.84	A	N
ATOM	2576	CA	MET	A	183	-6.292	-6.172	-59.472	1.00	26.68	A	C
ATOM	2578	CB	MET	A	183	-4.897	-6.777	-59.653	1.00	26.85	A	C
ATOM	2581	CG	MET	A	183	-4.232	-6.455	-60.984	1.00	32.53	A	C
ATOM	2584	SD	MET	A	183	-2.451	-6.812	-60.976	1.00	32.78	A	S
ATOM	2585	CE	MET	A	183	-1.938	-5.348	-60.168	1.00	38.11	A	C
ATOM	2589	C	MET	A	183	-7.106	-7.035	-58.534	1.00	21.15	A	C
ATOM	2590	O	MET	A	183	-7.202	-6.750	-57.347	1.00	23.07	A	O
ATOM	2592	N	MET	A	184	-7.723	-8.074	-59.071	1.00	24.53	A	N

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ATOM	2593	CA	MET	A	184	-8.439	-9.043	-58.246	1.00	21.72	A	C
ATOM	2595	CB	MET	A	184	-9.940	-8.730	-58.176	1.00	23.03	A	C
ATOM	2598	CG	MET	A	184	-10.701	-8.730	-59.488	1.00	20.18	A	C
ATOM	2601	SD	MET	A	184	-12.399	-8.201	-59.244	1.00	23.38	A	S
ATOM	2602	CE	MET	A	184	-13.061	-9.551	-58.270	1.00	21.93	A	C
ATOM	2606	C	MET	A	184	-8.200	-10.441	-58.777	1.00	23.48	A	C
ATOM	2607	O	MET	A	184	-7.687	-10.620	-59.881	1.00	18.50	A	O
ATOM	2609	N	CYS	A	185	-8.568	-11.428	-57.973	1.00	21.58	A	N
ATOM	2610	CA	CYS	A	185	-8.350	-12.818	-58.324	1.00	26.00	A	C
ATOM	2612	CB	CYS	A	185	-7.278	-13.437	-57.412	1.00	31.71	A	C
ATOM	2615	SG	CYS	A	185	-5.646	-12.784	-57.675	1.00	35.37	A	S
ATOM	2617	C	CYS	A	185	-9.642	-13.611	-58.226	1.00	23.36	A	C
ATOM	2618	O	CYS	A	185	-10.589	-13.202	-57.532	1.00	23.41	A	O
ATOM	2620	N	ALA	A	186	-9.671	-14.727	-58.961	1.00	21.25	A	N
ATOM	2621	CA	ALA	A	186	-10.721	-15.730	-58.852	1.00	18.39	A	C
ATOM	2623	CB	ALA	A	186	-11.699	-15.600	-60.012	1.00	22.22	A	C
ATOM	2627	C	ALA	A	186	-10.088	-17.104	-58.859	1.00	20.74	A	C
ATOM	2628	O	ALA	A	186	-8.984	-17.284	-59.374	1.00	19.79	A	O
ATOM	2630	N	GLU	A	187	-10.796	-18.088	-58.319	1.00	20.89	A	N
ATOM	2631	CA	GLU	A	187	-10.319	-19.469	-58.359	1.00	23.28	A	C
ATOM	2633	CB	GLU	A	187	-11.232	-20.392	-57.559	1.00	28.66	A	C
ATOM	2636	CG	GLU	A	187	-11.140	-20.077	-56.050	1.00	31.43	A	C
ATOM	2639	CD	GLU	A	187	-11.985	-20.964	-55.182	1.00	35.27	A	C
ATOM	2640	OE1	GLU	A	187	-12.169	-22.146	-55.529	1.00	48.59	A	O
ATOM	2641	OE2	GLU	A	187	-12.454	-20.483	-54.131	1.00	34.82	A	O
ATOM	2642	C	GLU	A	187	-10.115	-19.938	-59.805	1.00	26.50	A	C
ATOM	2643	O	GLU	A	187	-10.758	-19.441	-60.735	1.00	20.38	A	O
ATOM	2645	N	SER	A	188	-9.136	-20.836	-59.971	1.00	23.92	A	N
ATOM	2646	CA	SER	A	188	-8.702	-21.327	-61.261	1.00	25.93	A	C
ATOM	2648	CB	SER	A	188	-7.293	-20.829	-61.523	1.00	17.83	A	C
ATOM	2651	OG	SER	A	188	-6.489	-21.092	-60.398	1.00	21.89	A	O
ATOM	2653	C	SER	A	188	-8.710	-22.855	-61.372	1.00	26.38	A	C
ATOM	2654	O	SER	A	188	-8.414	-23.369	-62.426	1.00	26.77	A	O
ATOM	2656	N	ASN	A	189	-9.082	-23.563	-60.310	1.00	26.10	A	N
ATOM	2657	CA	ASN	A	189	-8.947	-25.018	-60.261	1.00	29.58	A	C
ATOM	2659	CB	ASN	A	189	-9.152	-25.510	-58.824	1.00	32.74	A	C
ATOM	2662	CG	ASN	A	189	-8.847	-26.996	-58.637	1.00	33.31	A	C
ATOM	2663	OD1	ASN	A	189	-8.159	-27.628	-59.436	1.00	37.29	A	O
ATOM	2664	ND2	ASN	A	189	-9.346	-27.546	-57.545	1.00	38.45	A	N
ATOM	2667	C	ASN	A	189	-9.934	-25.684	-61.193	1.00	28.30	A	C
ATOM	2668	O	ASN	A	189	-11.114	-25.785	-60.884	1.00	20.07	A	O
ATOM	2670	N	ARG	A	190	-9.441	-26.090	-62.361	1.00	30.01	A	N
ATOM	2671	CA	ARG	A	190	-10.248	-26.781	-63.379	1.00	37.30	A	C
ATOM	2673	CB	ARG	A	190	-10.757	-28.134	-62.830	1.00	42.30	A	C
ATOM	2676	CG	ARG	A	190	-9.616	-29.097	-62.471	1.00	46.77	A	C
ATOM	2679	CD	ARG	A	190	-10.119	-30.494	-62.133	1.00	50.54	A	C
ATOM	2682	NE	ARG	A	190	-10.941	-30.508	-60.918	1.00	56.85	A	N
ATOM	2684	CZ	ARG	A	190	-10.511	-30.804	-59.684	1.00	59.99	A	C
ATOM	2685	NH1	ARG	A	190	-9.238	-31.129	-59.453	1.00	61.53	A	N
ATOM	2688	NH2	ARG	A	190	-11.372	-30.782	-58.662	1.00	57.81	A	N
ATOM	2691	C	ARG	A	190	-11.397	-25.945	-63.995	1.00	35.38	A	C
ATOM	2692	O	ARG	A	190	-12.159	-26.449	-64.823	1.00	31.83	A	O
ATOM	2694	N	ARG	A	191	-11.478	-24.669	-63.608	1.00	35.99	A	N
ATOM	2695	CA	ARG	A	191	-12.500	-23.719	-64.050	1.00	30.67	A	C
ATOM	2697	CB	ARG	A	191	-13.650	-23.645	-63.052	1.00	36.05	A	C
ATOM	2700	CG	ARG	A	191	-14.632	-24.776	-63.118	1.00	38.16	A	C
ATOM	2703	CD	ARG	A	191	-15.946	-24.326	-62.513	1.00	44.34	A	C
ATOM	2706	NE	ARG	A	191	-16.960	-25.377	-62.505	1.00	47.89	A	N
ATOM	2708	CZ	ARG	A	191	-17.248	-26.166	-61.466	1.00	56.46	A	C
ATOM	2709	NH1	ARG	A	191	-16.593	-26.054	-60.305	1.00	57.52	A	N
ATOM	2712	NH2	ARG	A	191	-18.210	-27.089	-61.587	1.00	54.56	A	N
ATOM	2715	C	ARG	A	191	-11.825	-22.370	-64.082	1.00	23.20	A	C
ATOM	2716	O	ARG	A	191	-11.465	-21.857	-63.041	1.00	27.82	A	O
ATOM	2718	N	ASP	A	192	-11.636	-21.789	-65.259	1.00	21.33	A	N
ATOM	2719	CA	ASP	A	192	-10.757	-20.650	-65.363	1.00	19.68	A	C
ATOM	2721	CB	ASP	A	192	-9.303	-21.154	-65.291	1.00	21.43	A	C
ATOM	2724	CG	ASP	A	192	-8.324	-20.096	-64.865	1.00	16.40	A	C
ATOM	2725	OD1	ASP	A	192	-8.727	-18.938	-64.626	1.00	25.12	A	O

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ATOM	2726	OD2	ASP	A	192	-7.122	-20.425	-64.787	1.00	26.56	A	O
ATOM	2727	C	ASP	A	192	-10.986	-19.880	-66.652	1.00	19.25	A	C
ATOM	2728	O	ASP	A	192	-11.582	-20.398	-67.591	1.00	22.47	A	O
ATOM	2730	N	SER	A	193	-10.539	-18.627	-66.679	1.00	22.34	A	N
ATOM	2731	CA	SER	A	193	-10.385	-17.891	-67.926	1.00	27.08	A	C
ATOM	2733	CB	SER	A	193	-10.510	-16.375	-67.698	1.00	26.57	A	C
ATOM	2736	OG	SER	A	193	-9.852	-15.967	-66.518	1.00	31.62	A	O
ATOM	2738	C	SER	A	193	-9.034	-18.284	-68.537	1.00	29.35	A	C
ATOM	2739	O	SER	A	193	-8.090	-18.610	-67.816	1.00	28.41	A	O
ATOM	2741	N	CYS	A	194	-8.964	-18.329	-69.867	1.00	35.46	A	N
ATOM	2742	CA	CYS	A	194	-7.765	-18.811	-70.559	1.00	35.62	A	C
ATOM	2744	CB	CYS	A	194	-7.983	-20.246	-71.085	1.00	38.72	A	C
ATOM	2747	SG	CYS	A	194	-8.598	-21.459	-69.858	1.00	37.64	A	S
ATOM	2749	C	CYS	A	194	-7.365	-17.882	-71.706	1.00	36.97	A	C
ATOM	2750	O	CYS	A	194	-7.949	-16.826	-71.893	1.00	31.60	A	O
ATOM	2752	N	LYS	A	195	-6.349	-18.290	-72.457	1.00	37.38	A	N
ATOM	2753	CA	LYS	A	195	-5.914	-17.586	-73.656	1.00	38.74	A	C
ATOM	2755	CB	LYS	A	195	-4.797	-18.384	-74.344	1.00	43.77	A	C
ATOM	2758	CG	LYS	A	195	-4.022	-17.661	-75.427	1.00	44.77	A	C
ATOM	2761	CD	LYS	A	195	-3.308	-18.689	-76.302	1.00	47.51	A	C
ATOM	2764	CE	LYS	A	195	-2.601	-18.066	-77.516	1.00	51.32	A	C
ATOM	2767	NZ	LYS	A	195	-1.957	-19.118	-78.381	1.00	50.65	A	N
ATOM	2771	C	LYS	A	195	-7.093	-17.389	-74.602	1.00	34.36	A	C
ATOM	2772	O	LYS	A	195	-7.845	-18.330	-74.881	1.00	33.82	A	O
ATOM	2774	N	GLY	A	196	-7.260	-16.143	-75.053	1.00	34.33	A	N
ATOM	2775	CA	GLY	A	196	-8.396	-15.729	-75.868	1.00	31.57	A	C
ATOM	2778	C	GLY	A	196	-9.537	-15.115	-75.060	1.00	31.48	A	C
ATOM	2779	O	GLY	A	196	-10.438	-14.515	-75.638	1.00	25.54	A	O
ATOM	2781	N	ASP	A	197	-9.501	-15.286	-73.732	1.00	29.85	A	N
ATOM	2782	CA	ASP	A	197	-10.484	-14.698	-72.822	1.00	27.11	A	C
ATOM	2784	CB	ASP	A	197	-10.752	-15.632	-71.640	1.00	25.09	A	C
ATOM	2787	CG	ASP	A	197	-11.451	-16.915	-72.058	1.00	25.05	A	C
ATOM	2788	OD1	ASP	A	197	-12.324	-16.856	-72.943	1.00	19.95	A	O
ATOM	2789	OD2	ASP	A	197	-11.140	-17.989	-71.506	1.00	26.94	A	O
ATOM	2790	C	ASP	A	197	-10.017	-13.340	-72.308	1.00	28.11	A	C
ATOM	2791	O	ASP	A	197	-10.823	-12.561	-71.795	1.00	26.28	A	O
ATOM	2793	N	SER	A	198	-8.717	-13.082	-72.443	1.00	26.36	A	N
ATOM	2794	CA	SER	A	198	-8.092	-11.839	-72.036	1.00	28.50	A	C
ATOM	2796	CB	SER	A	198	-6.642	-11.772	-72.558	1.00	33.13	A	C
ATOM	2799	OG	SER	A	198	-5.886	-12.947	-72.253	1.00	33.48	A	O
ATOM	2801	C	SER	A	198	-8.896	-10.655	-72.582	1.00	25.09	A	C
ATOM	2802	O	SER	A	198	-9.300	-10.662	-73.740	1.00	23.64	A	O
ATOM	2804	N	GLY	A	199	-9.150	-9.663	-71.738	1.00	21.76	A	N
ATOM	2805	CA	GLY	A	199	-9.933	-8.492	-72.141	1.00	22.98	A	C
ATOM	2808	C	GLY	A	199	-11.433	-8.620	-71.935	1.00	21.49	A	C
ATOM	2809	O	GLY	A	199	-12.158	-7.645	-72.075	1.00	25.37	A	O
ATOM	2811	N	GLY	A	200	-11.915	-9.816	-71.605	1.00	24.68	A	N
ATOM	2812	CA	GLY	A	200	-13.349	-10.012	-71.375	1.00	22.74	A	C
ATOM	2815	C	GLY	A	200	-13.785	-9.582	-69.984	1.00	23.75	A	C
ATOM	2816	O	GLY	A	200	-12.962	-9.212	-69.147	1.00	25.70	A	O
ATOM	2818	N	PRO	A	201	-15.095	-9.644	-69.721	1.00	21.81	A	N
ATOM	2819	CA	PRO	A	201	-15.674	-9.158	-68.482	1.00	21.05	A	C
ATOM	2821	CB	PRO	A	201	-17.066	-8.712	-68.914	1.00	18.53	A	C
ATOM	2824	CG	PRO	A	201	-17.400	-9.582	-70.078	1.00	20.74	A	C
ATOM	2827	CD	PRO	A	201	-16.124	-10.183	-70.621	1.00	19.11	A	C
ATOM	2830	C	PRO	A	201	-15.789	-10.197	-67.374	1.00	20.79	A	C
ATOM	2831	O	PRO	A	201	-16.162	-11.333	-67.632	1.00	22.69	A	O
ATOM	2832	N	LEU	A	202	-15.452	-9.779	-66.157	1.00	21.21	A	N
ATOM	2833	CA	LEU	A	202	-15.835	-10.456	-64.929	1.00	19.29	A	C
ATOM	2835	CB	LEU	A	202	-14.663	-10.507	-63.952	1.00	23.65	A	C
ATOM	2838	CG	LEU	A	202	-14.803	-11.309	-62.656	1.00	23.29	A	C
ATOM	2840	CD1	LEU	A	202	-14.815	-12.805	-62.916	1.00	20.55	A	C
ATOM	2844	CD2	LEU	A	202	-13.689	-10.967	-61.723	1.00	20.52	A	C
ATOM	2848	C	LEU	A	202	-16.938	-9.581	-64.369	1.00	19.18	A	C
ATOM	2849	O	LEU	A	202	-16.699	-8.414	-64.020	1.00	16.26	A	O
ATOM	2851	N	VAL	A	203	-18.140	-10.146	-64.287	1.00	18.94	A	N
ATOM	2852	CA	VAL	A	203	-19.364	-9.409	-63.945	1.00	14.05	A	C
ATOM	2854	CB	VAL	A	203	-20.354	-9.513	-65.116	1.00	12.86	A	C

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ATOM	2856	CG1	VAL	A	203	-21.618	-8.716	-64.873	1.00	13.22	A	C
ATOM	2860	CG2	VAL	A	203	-19.685	-9.024	-66.406	1.00	11.48	A	C
ATOM	2864	C	VAL	A	203	-19.971	-9.994	-62.663	1.00	15.48	A	C
ATOM	2865	O	VAL	A	203	-20.260	-11.180	-62.610	1.00	12.73	A	O
ATOM	2867	N	CYS	A	204	-20.155	-9.158	-61.632	1.00	17.62	A	N
ATOM	2868	CA	CYS	A	204	-20.630	-9.613	-60.325	1.00	15.36	A	C
ATOM	2870	CB	CYS	A	204	-19.597	-9.326	-59.233	1.00	15.35	A	C
ATOM	2873	SG	CYS	A	204	-17.892	-9.788	-59.691	1.00	22.33	A	S
ATOM	2875	C	CYS	A	204	-21.961	-8.954	-59.989	1.00	18.76	A	C
ATOM	2876	O	CYS	A	204	-22.059	-7.729	-59.918	1.00	18.14	A	O
ATOM	2878	N	GLY	A	205	-22.993	-9.770	-59.800	1.00	18.96	A	N
ATOM	2879	CA	GLY	A	205	-24.327	-9.264	-59.507	1.00	17.09	A	C
ATOM	2882	C	GLY	A	205	-24.905	-8.314	-60.539	1.00	17.80	A	C
ATOM	2883	O	GLY	A	205	-25.768	-7.509	-60.214	1.00	26.09	A	O
ATOM	2885	N	GLY	A	206	-24.448	-8.429	-61.784	1.00	18.79	A	N
ATOM	2886	CA	GLY	A	206	-24.883	-7.569	-62.892	1.00	19.04	A	C
ATOM	2889	C	GLY	A	206	-23.964	-6.389	-63.184	1.00	19.01	A	C
ATOM	2890	O	GLY	A	206	-24.238	-5.593	-64.086	1.00	20.02	A	O
ATOM	2892	N	VAL	A	207	-22.886	-6.253	-62.417	1.00	17.54	A	N
ATOM	2893	CA	VAL	A	207	-22.009	-5.092	-62.531	1.00	17.29	A	C
ATOM	2895	CB	VAL	A	207	-21.971	-4.268	-61.210	1.00	16.77	A	C
ATOM	2897	CG1	VAL	A	207	-21.005	-3.057	-61.324	1.00	10.36	A	C
ATOM	2901	CG2	VAL	A	207	-23.375	-3.794	-60.847	1.00	11.24	A	C
ATOM	2905	C	VAL	A	207	-20.607	-5.553	-62.944	1.00	17.63	A	C
ATOM	2906	O	VAL	A	207	-20.048	-6.484	-62.362	1.00	19.92	A	O
ATOM	2908	N	LEU	A	208	-20.063	-4.916	-63.973	1.00	17.54	A	N
ATOM	2909	CA	LEU	A	208	-18.699	-5.196	-64.428	1.00	17.57	A	C
ATOM	2911	CB	LEU	A	208	-18.407	-4.431	-65.718	1.00	16.00	A	C
ATOM	2914	CG	LEU	A	208	-16.992	-4.624	-66.263	1.00	15.20	A	C
ATOM	2916	CD1	LEU	A	208	-16.957	-5.933	-66.990	1.00	14.58	A	C
ATOM	2920	CD2	LEU	A	208	-16.602	-3.452	-67.161	1.00	16.32	A	C
ATOM	2924	C	LEU	A	208	-17.705	-4.785	-63.351	1.00	17.52	A	C
ATOM	2925	O	LEU	A	208	-17.582	-3.607	-63.038	1.00	22.06	A	O
ATOM	2927	N	GLU	A	209	-17.015	-5.765	-62.772	1.00	22.00	A	N
ATOM	2928	CA	GLU	A	209	-16.006	-5.511	-61.746	1.00	19.90	A	C
ATOM	2930	CB	GLU	A	209	-16.233	-6.429	-60.548	1.00	20.12	A	C
ATOM	2933	CG	GLU	A	209	-17.475	-6.102	-59.742	1.00	18.24	A	C
ATOM	2936	CD	GLU	A	209	-17.350	-4.838	-58.912	1.00	18.76	A	C
ATOM	2937	OE1	GLU	A	209	-16.235	-4.307	-58.791	1.00	27.02	A	O
ATOM	2938	OE2	GLU	A	209	-18.370	-4.374	-58.363	1.00	23.72	A	O
ATOM	2939	C	GLU	A	209	-14.594	-5.705	-62.261	1.00	21.86	A	C
ATOM	2940	O	GLU	A	209	-13.669	-5.108	-61.739	1.00	23.57	A	O
ATOM	2942	N	GLY	A	210	-14.426	-6.544	-63.283	1.00	19.36	A	N
ATOM	2943	CA	GLY	A	210	-13.102	-6.904	-63.743	1.00	20.95	A	C
ATOM	2946	C	GLY	A	210	-12.993	-7.054	-65.240	1.00	17.48	A	C
ATOM	2947	O	GLY	A	210	-13.979	-7.222	-65.921	1.00	15.35	A	O
ATOM	2949	N	VAL	A	211	-11.771	-6.941	-65.742	1.00	23.83	A	N
ATOM	2950	CA	VAL	A	211	-11.449	-7.285	-67.112	1.00	24.75	A	C
ATOM	2952	CB	VAL	A	211	-10.990	-6.044	-67.911	1.00	26.58	A	C
ATOM	2954	CG1	VAL	A	211	-10.502	-6.440	-69.289	1.00	25.54	A	C
ATOM	2958	CG2	VAL	A	211	-12.117	-5.048	-68.036	1.00	24.15	A	C
ATOM	2962	C	VAL	A	211	-10.351	-8.343	-67.055	1.00	25.92	A	C
ATOM	2963	O	VAL	A	211	-9.350	-8.141	-66.391	1.00	25.60	A	O
ATOM	2965	N	VAL	A	212	-10.560	-9.485	-67.715	1.00	28.11	A	N
ATOM	2966	CA	VAL	A	212	-9.600	-10.602	-67.695	1.00	32.28	A	C
ATOM	2968	CB	VAL	A	212	-10.049	-11.798	-68.632	1.00	26.53	A	C
ATOM	2970	CG1	VAL	A	212	-9.027	-12.933	-68.641	1.00	24.57	A	C
ATOM	2974	CG2	VAL	A	212	-11.386	-12.314	-68.214	1.00	19.84	A	C
ATOM	2978	C	VAL	A	212	-8.213	-10.096	-68.097	1.00	35.81	A	C
ATOM	2979	O	VAL	A	212	-8.043	-9.559	-69.193	1.00	35.76	A	O
ATOM	2981	N	THR	A	213	-7.241	-10.260	-67.196	1.00	40.29	A	N
ATOM	2982	CA	THR	A	213	-5.888	-9.714	-67.370	1.00	42.98	A	C
ATOM	2984	CB	THR	A	213	-5.178	-9.521	-66.022	1.00	41.71	A	C
ATOM	2986	OG1	THR	A	213	-5.933	-8.625	-65.211	1.00	43.58	A	O
ATOM	2988	CG2	THR	A	213	-3.771	-8.973	-66.208	1.00	40.06	A	C
ATOM	2992	C	THR	A	213	-5.011	-10.637	-68.186	1.00	46.80	A	C
ATOM	2993	O	THR	A	213	-4.903	-11.824	-67.876	1.00	47.51	A	O
ATOM	2995	N	SER	A	214	-4.339	-10.061	-69.183	1.00	52.77	A	N

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ATOM	2996	CA	SER	A	214	-3.442	-10.797	-70.078	1.00	55.16	A C
ATOM	2998	CB	SER	A	214	-3.207	-9.985	-71.369	1.00	56.98	A C
ATOM	3001	OG	SER	A	214	-3.224	-10.809	-72.531	1.00	59.28	A O
ATOM	3003	C	SER	A	214	-2.105	-11.169	-69.381	1.00	57.56	A C
ATOM	3004	O	SER	A	214	-1.700	-10.547	-68.388	1.00	55.71	A O
ATOM	3006	N	GLY	A	215	-1.441	-12.197	-69.907	1.00	60.48	A N
ATOM	3007	CA	GLY	A	215	-0.192	-12.720	-69.335	1.00	61.29	A C
ATOM	3010	C	GLY	A	215	0.092	-14.141	-69.810	1.00	62.40	A C
ATOM	3011	O	GLY	A	215	-0.740	-14.758	-70.481	1.00	61.13	A O
ATOM	3013	N	SER	A	216	1.261	-14.670	-69.454	1.00	63.59	A N
ATOM	3014	CA	SER	A	216	1.695	-15.997	-69.932	1.00	62.07	A C
ATOM	3016	CB	SER	A	216	3.231	-16.055	-69.997	1.00	64.66	A C
ATOM	3019	OG	SER	A	216	3.681	-17.314	-70.485	1.00	65.95	A O
ATOM	3021	C	SER	A	216	1.160	-17.165	-69.077	1.00	60.62	A C
ATOM	3022	O	SER	A	216	1.514	-18.330	-69.305	1.00	57.64	A O
ATOM	3024	N	ARG	A	217	0.296	-16.839	-68.115	1.00	58.14	A N
ATOM	3025	CA	ARG	A	217	-0.209	-17.779	-67.104	1.00	56.02	A C
ATOM	3027	CB	ARG	A	217	-1.166	-17.018	-66.179	1.00	54.28	A C
ATOM	3030	CG	ARG	A	217	-1.568	-17.733	-64.899	1.00	53.34	A C
ATOM	3033	CD	ARG	A	217	-2.680	-16.945	-64.204	1.00	50.63	A C
ATOM	3036	NE	ARG	A	217	-3.840	-16.856	-65.087	1.00	50.26	A N
ATOM	3038	CZ	ARG	A	217	-4.955	-17.585	-64.988	1.00	48.61	A C
ATOM	3039	NH1	ARG	A	217	-5.139	-18.437	-63.994	1.00	47.81	A N
ATOM	3042	NH2	ARG	A	217	-5.913	-17.426	-65.878	1.00	44.81	A N
ATOM	3045	C	ARG	A	217	-0.927	-19.012	-67.684	1.00	54.16	A C
ATOM	3046	O	ARG	A	217	-1.670	-18.917	-68.672	1.00	52.76	A O
ATOM	3048	N	VAL	A	218	-0.692	-20.164	-67.054	1.00	53.57	A N
ATOM	3049	CA	VAL	A	218	-1.376	-21.423	-67.406	1.00	51.91	A C
ATOM	3051	CB	VAL	A	218	-0.643	-22.668	-66.809	1.00	54.01	A C
ATOM	3053	CG1	VAL	A	218	-0.838	-22.761	-65.262	1.00	50.76	A C
ATOM	3057	CG2	VAL	A	218	-1.111	-23.947	-67.501	1.00	54.22	A C
ATOM	3061	C	VAL	A	218	-2.798	-21.378	-66.862	1.00	50.04	A C
ATOM	3062	O	VAL	A	218	-3.039	-20.713	-65.848	1.00	52.34	A O
ATOM	3064	N	CYS	A	219	-3.741	-22.071	-67.504	1.00	43.80	A N
ATOM	3065	CA	CYS	A	219	-5.125	-22.013	-67.027	1.00	41.02	A C
ATOM	3067	CB	CYS	A	219	-6.066	-21.383	-68.088	1.00	42.98	A C
ATOM	3070	SG	CYS	A	219	-6.944	-22.500	-69.232	1.00	41.03	A S
ATOM	3072	C	CYS	A	219	-5.612	-23.363	-66.513	1.00	32.14	A C
ATOM	3073	O	CYS	A	219	-5.207	-24.408	-66.999	1.00	33.42	A O
ATOM	3075	N	GLY	A	220	-6.460	-23.322	-65.500	1.00	33.38	A N
ATOM	3076	CA	GLY	A	220	-7.041	-24.523	-64.910	1.00	33.34	A C
ATOM	3079	C	GLY	A	220	-6.297	-25.025	-63.686	1.00	31.67	A C
ATOM	3080	O	GLY	A	220	-6.711	-26.007	-63.063	1.00	27.93	A O
ATOM	3082	N	ASN	A	221	-5.219	-24.333	-63.331	1.00	33.27	A N
ATOM	3083	CA	ASN	A	221	-4.293	-24.767	-62.279	1.00	32.26	A C
ATOM	3085	CB	ASN	A	221	-2.851	-24.528	-62.764	1.00	34.92	A C
ATOM	3088	CG	ASN	A	221	-1.767	-25.002	-61.772	1.00	36.56	A C
ATOM	3089	OD1	ASN	A	221	-2.006	-25.820	-60.876	1.00	34.95	A O
ATOM	3090	ND2	ASN	A	221	-0.549	-24.476	-61.962	1.00	34.90	A N
ATOM	3093	C	ASN	A	221	-4.570	-23.951	-61.037	1.00	25.99	A C
ATOM	3094	O	ASN	A	221	-4.488	-22.724	-61.092	1.00	26.89	A O
ATOM	3096	N	ARG	A	222	-4.912	-24.632	-59.940	1.00	26.76	A N
ATOM	3097	CA	ARG	A	222	-5.176	-24.003	-58.634	1.00	29.73	A C
ATOM	3099	CB	ARG	A	222	-5.530	-25.075	-57.594	1.00	37.03	A C
ATOM	3102	CG	ARG	A	222	-4.373	-26.038	-57.285	1.00	41.65	A C
ATOM	3105	CD	ARG	A	222	-4.659	-26.957	-56.114	1.00	46.86	A C
ATOM	3108	NE	ARG	A	222	-3.749	-28.112	-56.097	1.00	50.54	A N
ATOM	3110	CZ	ARG	A	222	-3.935	-29.266	-56.756	1.00	53.52	A C
ATOM	3111	NH1	ARG	A	222	-5.011	-29.471	-57.518	1.00	51.75	A N
ATOM	3114	NH2	ARG	A	222	-3.028	-30.237	-56.654	1.00	53.23	A N
ATOM	3117	C	ARG	A	222	-4.042	-23.159	-58.069	1.00	23.87	A C
ATOM	3118	O	ARG	A	222	-4.275	-22.295	-57.235	1.00	27.75	A O
ATOM	3120	N	LYS	A	223	-2.805	-23.447	-58.472	1.00	26.24	A N
ATOM	3121	CA	LYS	A	223	-1.658	-22.711	-58.004	1.00	20.88	A C
ATOM	3123	CB	LYS	A	223	-0.355	-23.505	-58.232	1.00	24.90	A C
ATOM	3126	CG	LYS	A	223	-0.169	-24.727	-57.290	1.00	21.88	A C
ATOM	3129	CD	LYS	A	223	1.213	-25.412	-57.467	1.00	21.07	A C
ATOM	3132	CE	LYS	A	223	1.403	-26.534	-56.420	1.00	26.51	A C

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ATOM	3135	NZ	LYS	A	223	2.790	-27.103	-56.417	1.00	24.28	A	N
ATOM	3139	C	LYS	A	223	-1.558	-21.343	-58.667	1.00	21.19	A	C
ATOM	3140	O	LYS	A	223	-0.841	-20.500	-58.188	1.00	27.59	A	O
ATOM	3142	N	LYS	A	224	-2.248	-21.128	-59.785	1.00	25.34	A	N
ATOM	3143	CA	LYS	A	224	-2.233	-19.832	-60.466	1.00	20.45	A	C
ATOM	3145	CB	LYS	A	224	-1.488	-19.933	-61.816	1.00	21.13	A	C
ATOM	3148	CG	LYS	A	224	0.004	-20.212	-61.637	1.00	25.76	A	C
ATOM	3151	CD	LYS	A	224	0.722	-19.049	-60.928	1.00	27.94	A	C
ATOM	3154	CE	LYS	A	224	2.181	-19.331	-60.628	1.00	29.94	A	C
ATOM	3157	NZ	LYS	A	224	2.301	-20.420	-59.647	1.00	32.28	A	N
ATOM	3161	C	LYS	A	224	-3.636	-19.319	-60.674	1.00	19.16	A	C
ATOM	3162	O	LYS	A	224	-4.192	-19.490	-61.757	1.00	16.40	A	O
ATOM	3164	N	PRO	A	225	-4.228	-18.698	-59.628	1.00	19.45	A	N
ATOM	3165	CA	PRO	A	225	-5.569	-18.116	-59.753	1.00	20.40	A	C
ATOM	3167	CB	PRO	A	225	-5.727	-17.326	-58.437	1.00	21.17	A	C
ATOM	3170	CG	PRO	A	225	-4.878	-18.086	-57.451	1.00	22.92	A	C
ATOM	3173	CD	PRO	A	225	-3.671	-18.498	-58.273	1.00	18.87	A	C
ATOM	3176	C	PRO	A	225	-5.711	-17.171	-60.955	1.00	17.36	A	C
ATOM	3177	O	PRO	A	225	-4.716	-16.629	-61.435	1.00	22.41	A	O
ATOM	3178	N	GLY	A	226	-6.943	-16.980	-61.421	1.00	22.32	A	N
ATOM	3179	CA	GLY	A	226	-7.237	-16.038	-62.500	1.00	22.47	A	C
ATOM	3182	C	GLY	A	226	-7.040	-14.624	-62.019	1.00	22.96	A	C
ATOM	3183	O	GLY	A	226	-7.342	-14.319	-60.851	1.00	18.48	A	O
ATOM	3185	N	ILE	A	227	-6.491	-13.775	-62.895	1.00	24.12	A	N
ATOM	3186	CA	ILE	A	227	-6.197	-12.381	-62.557	1.00	25.47	A	C
ATOM	3188	CB	ILE	A	227	-4.713	-11.993	-62.793	1.00	25.51	A	C
ATOM	3190	CG1	ILE	A	227	-3.775	-12.882	-61.996	1.00	23.90	A	C
ATOM	3193	CD1	ILE	A	227	-2.309	-12.671	-62.375	1.00	26.64	A	C
ATOM	3197	CG2	ILE	A	227	-4.452	-10.516	-62.395	1.00	21.56	A	C
ATOM	3201	C	ILE	A	227	-7.082	-11.460	-63.376	1.00	26.31	A	C
ATOM	3202	O	ILE	A	227	-7.228	-11.621	-64.591	1.00	23.08	A	O
ATOM	3204	N	TYR	A	228	-7.675	-10.494	-62.686	1.00	28.36	A	N
ATOM	3205	CA	TYR	A	228	-8.632	-9.564	-63.290	1.00	25.01	A	C
ATOM	3207	CB	TYR	A	228	-10.077	-9.960	-62.903	1.00	24.06	A	C
ATOM	3210	CG	TYR	A	228	-10.363	-11.419	-63.216	1.00	25.54	A	C
ATOM	3211	CD1	TYR	A	228	-10.913	-11.800	-64.435	1.00	25.52	A	C
ATOM	3213	CE1	TYR	A	228	-11.132	-13.143	-64.741	1.00	23.25	A	C
ATOM	3215	CZ	TYR	A	228	-10.776	-14.127	-63.824	1.00	26.58	A	C
ATOM	3216	OH	TYR	A	228	-10.985	-15.480	-64.095	1.00	25.35	A	O
ATOM	3218	CE2	TYR	A	228	-10.215	-13.765	-62.619	1.00	26.32	A	C
ATOM	3220	CD2	TYR	A	228	-10.011	-12.420	-62.322	1.00	27.08	A	C
ATOM	3222	C	TYR	A	228	-8.283	-8.150	-62.850	1.00	24.13	A	C
ATOM	3223	O	TYR	A	228	-8.038	-7.901	-61.664	1.00	27.77	A	O
ATOM	3225	N	THR	A	229	-8.249	-7.226	-63.809	1.00	26.20	A	N
ATOM	3226	CA	THR	A	229	-8.058	-5.799	-63.510	1.00	25.76	A	C
ATOM	3228	CB	THR	A	229	-7.546	-5.033	-64.752	1.00	25.42	A	C
ATOM	3230	OG1	THR	A	229	-6.411	-5.722	-65.301	1.00	29.63	A	O
ATOM	3232	CG2	THR	A	229	-7.131	-3.655	-64.390	1.00	25.27	A	C
ATOM	3236	C	THR	A	229	-9.375	-5.209	-63.015	1.00	21.74	A	C
ATOM	3237	O	THR	A	229	-10.396	-5.315	-63.679	1.00	25.52	A	O
ATOM	3239	N	ARG	A	230	-9.352	-4.616	-61.829	1.00	22.01	A	N
ATOM	3240	CA	ARG	A	230	-10.524	-3.967	-61.270	1.00	24.73	A	C
ATOM	3242	CB	ARG	A	230	-10.323	-3.694	-59.777	1.00	24.23	A	C
ATOM	3245	CG	ARG	A	230	-10.149	-4.945	-58.964	1.00	26.03	A	C
ATOM	3248	CD	ARG	A	230	-9.920	-4.647	-57.512	1.00	22.13	A	C
ATOM	3251	NE	ARG	A	230	-11.021	-3.862	-56.997	1.00	24.28	A	N
ATOM	3253	CZ	ARG	A	230	-10.974	-2.579	-56.669	1.00	22.93	A	C
ATOM	3254	NH1	ARG	A	230	-9.848	-1.893	-56.740	1.00	28.99	A	N
ATOM	3257	NH2	ARG	A	230	-12.073	-1.986	-56.235	1.00	23.18	A	N
ATOM	3260	C	ARG	A	230	-10.802	-2.643	-61.992	1.00	24.60	A	C
ATOM	3261	O	ARG	A	230	-9.972	-1.750	-61.971	1.00	23.54	A	O
ATOM	3263	N	VAL	A	231	-11.971	-2.511	-62.607	1.00	28.46	A	N
ATOM	3264	CA	VAL	A	231	-12.287	-1.301	-63.386	1.00	27.54	A	C
ATOM	3266	CB	VAL	A	231	-13.401	-1.549	-64.448	1.00	25.49	A	C
ATOM	3268	CG1	VAL	A	231	-12.955	-2.644	-65.391	1.00	23.60	A	C
ATOM	3272	CG2	VAL	A	231	-14.750	-1.877	-63.797	1.00	22.57	A	C
ATOM	3276	C	VAL	A	231	-12.624	-0.074	-62.544	1.00	27.33	A	C
ATOM	3277	O	VAL	A	231	-12.477	1.041	-63.034	1.00	26.83	A	O

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ATOM	3279	N	ALA	A	232	-13.055	-0.258	-61.295	1.00	25.84	A	N
ATOM	3280	CA	ALA	A	232	-13.308	0.879	-60.410	1.00	28.11	A	C
ATOM	3282	CB	ALA	A	232	-13.821	0.402	-59.054	1.00	24.48	A	C
ATOM	3286	C	ALA	A	232	-12.038	1.724	-60.247	1.00	29.08	A	C
ATOM	3287	O	ALA	A	232	-12.084	2.956	-60.264	1.00	24.29	A	O
ATOM	3289	N	SER	A	233	-10.908	1.036	-60.137	1.00	31.93	A	N
ATOM	3290	CA	SER	A	233	-9.596	1.654	-59.990	1.00	33.67	A	C
ATOM	3292	CB	SER	A	233	-8.522	0.562	-59.924	1.00	33.96	A	C
ATOM	3295	OG	ASER	A	233	-8.562	-0.129	-58.694	0.70	34.87	A	O
ATOM	3296	OG	BSER	A	233	-8.579	-0.133	-58.695	0.30	34.35	A	O
ATOM	3299	C	SER	A	233	-9.201	2.606	-61.109	1.00	35.71	A	C
ATOM	3300	O	SER	A	233	-8.324	3.445	-60.919	1.00	40.75	A	O
ATOM	3302	N	TYR	A	234	-9.809	2.453	-62.278	1.00	35.00	A	N
ATOM	3303	CA	TYR	A	234	-9.454	3.263	-63.431	1.00	33.84	A	C
ATOM	3305	CB	TYR	A	234	-8.972	2.344	-64.565	1.00	33.04	A	C
ATOM	3308	CG	TYR	A	234	-7.739	1.542	-64.194	1.00	33.40	A	C
ATOM	3309	CD1	TYR	A	234	-6.460	2.049	-64.431	1.00	34.91	A	C
ATOM	3311	CE1	TYR	A	234	-5.317	1.332	-64.079	1.00	37.04	A	C
ATOM	3313	CZ	TYR	A	234	-5.441	0.080	-63.487	1.00	34.27	A	C
ATOM	3314	OH	TYR	A	234	-4.305	-0.603	-63.138	1.00	33.36	A	O
ATOM	3316	CE2	TYR	A	234	-6.699	-0.450	-63.227	1.00	32.49	A	C
ATOM	3318	CD2	TYR	A	234	-7.845	0.287	-63.589	1.00	33.80	A	C
ATOM	3320	C	TYR	A	234	-10.623	4.140	-63.883	1.00	32.94	A	C
ATOM	3321	O	TYR	A	234	-10.692	4.499	-65.048	1.00	35.23	A	O
ATOM	3323	N	ALA	A	235	-11.530	4.485	-62.963	1.00	32.88	A	N
ATOM	3324	CA	ALA	A	235	-12.730	5.278	-63.284	1.00	38.13	A	C
ATOM	3326	CB	ALA	A	235	-13.613	5.466	-62.038	1.00	34.67	A	C
ATOM	3330	C	ALA	A	235	-12.410	6.644	-63.894	1.00	40.07	A	C
ATOM	3331	O	ALA	A	235	-13.105	7.099	-64.805	1.00	40.64	A	O
ATOM	3333	N	ALA	A	236	-11.370	7.296	-63.383	1.00	40.14	A	N
ATOM	3334	CA	ALA	A	236	-10.970	8.603	-63.884	1.00	42.82	A	C
ATOM	3336	CB	ALA	A	236	-9.980	9.272	-62.927	1.00	45.37	A	C
ATOM	3340	C	ALA	A	236	-10.369	8.469	-65.281	1.00	42.28	A	C
ATOM	3341	O	ALA	A	236	-10.620	9.298	-66.155	1.00	44.88	A	O
ATOM	3343	N	TRP	A	237	-9.582	7.425	-65.491	1.00	42.68	A	N
ATOM	3344	CA	TRP	A	237	-8.985	7.177	-66.803	1.00	42.71	A	C
ATOM	3346	CB	TRP	A	237	-7.964	6.057	-66.735	1.00	42.74	A	C
ATOM	3349	CG	TRP	A	237	-7.408	5.731	-68.068	1.00	42.83	A	C
ATOM	3350	CD1	TRP	A	237	-6.469	6.434	-68.748	1.00	42.44	A	C
ATOM	3352	NE1	TRP	A	237	-6.197	5.825	-69.946	1.00	43.25	A	N
ATOM	3354	CE2	TRP	A	237	-6.986	4.712	-70.069	1.00	43.01	A	C
ATOM	3355	CD2	TRP	A	237	-7.765	4.621	-68.899	1.00	42.70	A	C
ATOM	3356	CE3	TRP	A	237	-8.656	3.550	-68.762	1.00	42.19	A	C
ATOM	3358	CZ3	TRP	A	237	-8.742	2.624	-69.783	1.00	41.96	A	C
ATOM	3360	CH2	TRP	A	237	-7.953	2.738	-70.940	1.00	42.37	A	C
ATOM	3362	CZ2	TRP	A	237	-7.072	3.774	-71.103	1.00	43.38	A	C
ATOM	3364	C	TRP	A	237	-10.035	6.835	-67.856	1.00	44.38	A	C
ATOM	3365	O	TRP	A	237	-9.970	7.327	-68.987	1.00	45.85	A	O
ATOM	3367	N	ILE	A	238	-10.994	5.988	-67.487	1.00	43.73	A	N
ATOM	3368	CA	ILE	A	238	-12.069	5.603	-68.401	1.00	42.04	A	C
ATOM	3370	CB	ILE	A	238	-12.968	4.482	-67.803	1.00	38.51	A	C
ATOM	3372	CG1	ILE	A	238	-12.188	3.162	-67.715	1.00	39.24	A	C
ATOM	3375	CD1	ILE	A	238	-12.970	2.023	-67.102	1.00	38.64	A	C
ATOM	3379	CG2	ILE	A	238	-14.189	4.253	-68.661	1.00	38.82	A	C
ATOM	3383	C	ILE	A	238	-12.860	6.865	-68.765	1.00	41.74	A	C
ATOM	3384	O	ILE	A	238	-13.103	7.135	-69.938	1.00	41.34	A	O
ATOM	3386	N	ASP	A	239	-13.209	7.652	-67.750	1.00	45.02	A	N
ATOM	3387	CA	ASP	A	239	-13.864	8.958	-67.944	1.00	43.99	A	C
ATOM	3389	CB	ASP	A	239	-14.010	9.680	-66.601	1.00	43.49	A	C
ATOM	3392	CG	ASP	A	239	-15.190	9.178	-65.798	1.00	44.07	A	C
ATOM	3393	OD1	ASP	A	239	-16.113	8.595	-66.407	1.00	44.92	A	O
ATOM	3394	OD2	ASP	A	239	-15.197	9.372	-64.560	1.00	43.08	A	O
ATOM	3395	C	ASP	A	239	-13.173	9.883	-68.954	1.00	43.22	A	C
ATOM	3396	O	ASP	A	239	-13.822	10.378	-69.874	1.00	44.74	A	O
ATOM	3398	N	SER	A	240	-11.874	10.127	-68.792	1.00	44.13	A	N
ATOM	3399	CA	SER	A	240	-11.165	11.007	-69.721	1.00	45.86	A	C
ATOM	3401	CB	SER	A	240	-9.682	11.156	-69.355	1.00	45.16	A	C
ATOM	3404	OG	ASER	A	240	-8.997	9.918	-69.400	0.60	46.17	A	O

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ATOM	3405	OG	BSER	A	240	-9.002	9.915	-69.401	0.40	45.75	A	O
ATOM	3408	C	SER	A	240	-11.331	10.525	-71.169	1.00	50.03	A	C
ATOM	3409	O	SER	A	240	-11.693	11.305	-72.056	1.00	51.58	A	O
ATOM	3411	N	VAL	A	241	-11.119	9.231	-71.392	1.00	50.96	A	N
ATOM	3412	CA	VAL	A	241	-11.151	8.666	-72.742	1.00	46.94	A	C
ATOM	3414	CB	VAL	A	241	-10.546	7.230	-72.751	1.00	44.94	A	C
ATOM	3416	CG1	VAL	A	241	-10.709	6.558	-74.111	1.00	45.96	A	C
ATOM	3420	CG2	VAL	A	241	-9.070	7.283	-72.368	1.00	38.44	A	C
ATOM	3424	C	VAL	A	241	-12.557	8.719	-73.370	1.00	47.32	A	C
ATOM	3425	O	VAL	A	241	-12.686	8.950	-74.572	1.00	51.82	A	O
ATOM	3427	N	LEU	A	242	-13.603	8.560	-72.561	1.00	47.39	A	N
ATOM	3428	CA	LEU	A	242	-14.973	8.407	-73.088	1.00	46.77	A	C
ATOM	3430	CB	LEU	A	242	-15.777	7.431	-72.209	1.00	45.42	A	C
ATOM	3433	CG	LEU	A	242	-15.793	5.967	-72.676	1.00	45.47	A	C
ATOM	3435	CD1	LEU	A	242	-14.385	5.472	-72.941	1.00	44.04	A	C
ATOM	3439	CD2	LEU	A	242	-16.501	5.071	-71.669	1.00	44.50	A	C
ATOM	3443	C	LEU	A	242	-15.760	9.716	-73.280	1.00	50.61	A	C
ATOM	3444	O	LEU	A	242	-16.953	9.684	-73.626	1.00	47.58	A	O
ATOM	3446	N	ALA	A	243	-15.107	10.859	-73.078	1.00	54.86	A	N
ATOM	3447	CA	ALA	A	243	-15.770	12.159	-73.259	1.00	55.32	A	C
ATOM	3449	CB	ALA	A	243	-16.573	12.523	-72.007	1.00	55.32	A	C
ATOM	3453	C	ALA	A	243	-14.763	13.260	-73.595	1.00	60.01	A	C
ATOM	3454	O	ALA	A	243	-15.067	14.181	-74.362	1.00	64.45	A	O
ATOM	3456	OXT	ALA	A	243	-13.627	13.256	-73.110	1.00	60.42	A	O
ATOM	3457	N	ASP	L	1	0.320	-34.124	-43.608	1.00	39.68	L	N
ATOM	3458	CA	ASP	L	1	0.857	-32.817	-44.116	1.00	35.44	L	C
ATOM	3460	CB	ASP	L	1	0.855	-31.775	-43.006	1.00	39.56	L	C
ATOM	3463	CG	ASP	L	1	-0.579	-31.443	-42.504	1.00	43.75	L	C
ATOM	3464	OD1	ASP	L	1	-1.578	-32.039	-42.992	1.00	35.08	L	O
ATOM	3465	OD2	ASP	L	1	-0.710	-30.574	-41.609	1.00	50.87	L	O
ATOM	3466	C	ASP	L	1	2.250	-33.066	-44.664	1.00	35.43	L	C
ATOM	3467	O	ASP	L	1	2.807	-34.124	-44.408	1.00	38.67	L	O
ATOM	3471	N	ILE	L	2	2.799	-32.132	-45.443	1.00	29.46	L	N
ATOM	3472	CA	ILE	L	2	3.967	-32.448	-46.259	1.00	28.30	L	C
ATOM	3474	CB	ILE	L	2	4.118	-31.512	-47.464	1.00	21.86	L	C
ATOM	3476	CG1	ILE	L	2	2.883	-31.586	-48.366	1.00	18.55	L	C
ATOM	3479	CD1	ILE	L	2	2.965	-30.723	-49.583	1.00	20.84	L	C
ATOM	3483	CG2	ILE	L	2	5.363	-31.876	-48.240	1.00	20.07	L	C
ATOM	3487	C	ILE	L	2	5.281	-32.464	-45.477	1.00	28.84	L	C
ATOM	3488	O	ILE	L	2	5.632	-31.507	-44.767	1.00	30.47	L	O
ATOM	3490	N	GLN	L	3	6.021	-33.546	-45.641	1.00	26.48	L	N
ATOM	3491	CA	GLN	L	3	7.277	-33.706	-44.945	1.00	31.95	L	C
ATOM	3493	CB	GLN	L	3	7.383	-35.097	-44.364	1.00	36.89	L	C
ATOM	3496	CG	GLN	L	3	6.342	-35.376	-43.314	1.00	38.60	L	C
ATOM	3499	CD	GLN	L	3	6.154	-36.831	-43.164	1.00	41.85	L	C
ATOM	3500	OE1	GLN	L	3	5.031	-37.333	-43.201	1.00	49.69	L	O
ATOM	3501	NE2	GLN	L	3	7.266	-37.550	-43.040	1.00	45.63	L	N
ATOM	3504	C	GLN	L	3	8.448	-33.451	-45.846	1.00	29.18	L	C
ATOM	3505	O	GLN	L	3	8.385	-33.673	-47.054	1.00	25.48	L	O
ATOM	3507	N	VAL	L	4	9.529	-32.981	-45.234	1.00	31.71	L	N
ATOM	3508	CA	VAL	L	4	10.724	-32.607	-45.966	1.00	26.51	L	C
ATOM	3510	CB	VAL	L	4	10.788	-31.079	-46.128	1.00	22.86	L	C
ATOM	3512	CG1	VAL	L	4	12.180	-30.625	-46.322	1.00	30.96	L	C
ATOM	3516	CG2	VAL	L	4	9.941	-30.650	-47.315	1.00	26.63	L	C
ATOM	3520	C	VAL	L	4	11.932	-33.162	-45.224	1.00	28.50	L	C
ATOM	3521	O	VAL	L	4	12.049	-33.008	-43.995	1.00	26.20	L	O
ATOM	3523	N	THR	L	5	12.808	-33.851	-45.957	1.00	27.71	L	N
ATOM	3524	CA	THR	L	5	14.044	-34.375	-45.379	1.00	23.84	L	C
ATOM	3526	CB	THR	L	5	14.214	-35.898	-45.564	1.00	25.45	L	C
ATOM	3528	OG1	THR	L	5	13.056	-36.585	-45.082	1.00	33.94	L	O
ATOM	3530	CG2	THR	L	5	15.434	-36.385	-44.755	1.00	29.86	L	C
ATOM	3534	C	THR	L	5	15.222	-33.676	-46.022	1.00	16.29	L	C
ATOM	3535	O	THR	L	5	15.431	-33.809	-47.224	1.00	20.13	L	O
ATOM	3537	N	GLN	L	6	15.999	-32.965	-45.206	1.00	21.24	L	N
ATOM	3538	CA	GLN	L	6	17.197	-32.272	-45.656	1.00	24.81	L	C
ATOM	3540	CB	GLN	L	6	17.246	-30.883	-45.078	1.00	19.28	L	C
ATOM	3543	CG	GLN	L	6	18.430	-30.052	-45.607	1.00	24.11	L	C
ATOM	3546	CD	GLN	L	6	18.256	-28.571	-45.332	1.00	25.58	L	C

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ATOM	3547	OE1	GLN	L	6	17.166	-28.129	-44.974	1.00	27.17	L O
ATOM	3548	NE2	GLN	L	6	19.329	-27.805	-45.483	1.00	26.56	L N
ATOM	3551	C	GLN	L	6	18.489	-32.994	-45.294	1.00	27.00	L C
ATOM	3552	O	GLN	L	6	18.596	-33.551	-44.220	1.00	29.70	L O
ATOM	3554	N	SER	L	7	19.456	-32.968	-46.213	1.00	26.45	L N
ATOM	3555	CA	SER	L	7	20.789	-33.547	-45.989	1.00	28.93	L C
ATOM	3557	CB	SER	L	7	20.851	-35.018	-46.421	1.00	26.48	L C
ATOM	3560	OG	SER	L	7	20.201	-35.195	-47.649	1.00	35.79	L O
ATOM	3562	C	SER	L	7	21.906	-32.798	-46.712	1.00	23.85	L C
ATOM	3563	O	SER	L	7	21.692	-32.232	-47.768	1.00	24.96	L O
ATOM	3565	N	PRO	L	8	23.123	-32.844	-46.163	1.00	22.72	L N
ATOM	3566	CA	PRO	L	8	23.534	-33.498	-44.912	1.00	26.52	L C
ATOM	3568	CB	PRO	L	8	25.048	-33.519	-45.034	1.00	24.98	L C
ATOM	3571	CG	PRO	L	8	25.360	-32.290	-45.793	1.00	27.22	L C
ATOM	3574	CD	PRO	L	8	24.253	-32.179	-46.822	1.00	25.34	L C
ATOM	3577	C	PRO	L	8	23.112	-32.671	-43.696	1.00	22.27	L C
ATOM	3578	O	PRO	L	8	22.544	-31.604	-43.884	1.00	27.06	L O
ATOM	3579	N	SER	L	9	23.395	-33.132	-42.477	1.00	26.95	L N
ATOM	3580	CA	SER	L	9	23.197	-32.296	-41.268	1.00	26.60	L C
ATOM	3582	CB	SER	L	9	23.343	-33.116	-39.994	1.00	29.70	L C
ATOM	3585	OG	SER	L	9	22.538	-34.265	-40.041	1.00	40.54	L O
ATOM	3587	C	SER	L	9	24.209	-31.168	-41.168	1.00	27.29	L C
ATOM	3588	O	SER	L	9	23.890	-30.058	-40.752	1.00	22.40	L O
ATOM	3590	N	SER	L	10	25.460	-31.476	-41.482	1.00	26.29	L N
ATOM	3591	CA	SER	L	10	26.522	-30.477	-41.410	1.00	27.87	L C
ATOM	3593	CB	SER	L	10	27.028	-30.281	-39.963	1.00	31.91	L C
ATOM	3596	OG	SER	L	10	27.474	-31.485	-39.331	1.00	29.68	L O
ATOM	3598	C	SER	L	10	27.647	-30.887	-42.342	1.00	22.10	L C
ATOM	3599	O	SER	L	10	27.741	-32.045	-42.712	1.00	29.04	L O
ATOM	3601	N	LEU	L	11	28.461	-29.923	-42.750	1.00	22.92	L N
ATOM	3602	CA	LEU	L	11	29.595	-30.163	-43.647	1.00	23.95	L C
ATOM	3604	CB	LEU	L	11	29.116	-30.261	-45.115	1.00	26.33	L C
ATOM	3607	CG	LEU	L	11	28.531	-29.058	-45.886	1.00	25.38	L C
ATOM	3609	CD1	LEU	L	11	29.616	-28.185	-46.525	1.00	19.53	L C
ATOM	3613	CD2	LEU	L	11	27.603	-29.541	-46.990	1.00	24.48	L C
ATOM	3617	C	LEU	L	11	30.690	-29.088	-43.518	1.00	27.32	L C
ATOM	3618	O	LEU	L	11	30.414	-27.979	-43.079	1.00	30.55	L O
ATOM	3620	N	SER	L	12	31.928	-29.441	-43.896	1.00	31.28	L N
ATOM	3621	CA	SER	L	12	33.041	-28.472	-44.028	1.00	27.41	L C
ATOM	3623	CB	SER	L	12	34.164	-28.759	-43.026	1.00	26.25	L C
ATOM	3626	OG	SER	L	12	33.663	-28.844	-41.706	1.00	34.73	L O
ATOM	3628	C	SER	L	12	33.631	-28.539	-45.429	1.00	25.16	L C
ATOM	3629	O	SER	L	12	33.944	-29.610	-45.913	1.00	21.95	L O
ATOM	3631	N	ALA	L	13	33.813	-27.387	-46.059	1.00	26.96	L N
ATOM	3632	CA	ALA	L	13	34.393	-27.331	-47.388	1.00	27.27	L C
ATOM	3634	CB	ALA	L	13	33.303	-27.199	-48.452	1.00	29.19	L C
ATOM	3638	C	ALA	L	13	35.318	-26.148	-47.402	1.00	30.02	L C
ATOM	3639	O	ALA	L	13	35.190	-25.258	-46.563	1.00	24.82	L O
ATOM	3641	N	SER	L	14	36.261	-26.144	-48.341	1.00	29.23	L N
ATOM	3642	CA	SER	L	14	37.242	-25.057	-48.457	1.00	29.18	L C
ATOM	3644	CB	SER	L	14	38.566	-25.569	-49.065	1.00	30.28	L C
ATOM	3647	OG	SER	L	14	39.044	-26.738	-48.414	1.00	31.00	L O
ATOM	3649	C	SER	L	14	36.695	-23.949	-49.335	1.00	25.20	L C
ATOM	3650	O	SER	L	14	35.815	-24.180	-50.151	1.00	32.36	L O
ATOM	3652	N	VAL	L	15	37.223	-22.749	-49.163	1.00	24.39	L N
ATOM	3653	CA	VAL	L	15	36.869	-21.612	-49.984	1.00	27.55	L C
ATOM	3655	CB	VAL	L	15	37.709	-20.371	-49.566	1.00	27.46	L C
ATOM	3657	CG1	VAL	L	15	37.610	-19.251	-50.602	1.00	29.48	L C
ATOM	3661	CG2	VAL	L	15	37.291	-19.877	-48.185	1.00	26.86	L C
ATOM	3665	C	VAL	L	15	37.121	-21.986	-51.451	1.00	32.32	L C
ATOM	3666	O	VAL	L	15	38.206	-22.438	-51.794	1.00	34.05	L O
ATOM	3668	N	GLY	L	16	36.098	-21.853	-52.288	1.00	33.09	L N
ATOM	3669	CA	GLY	L	16	36.171	-22.208	-53.708	1.00	32.05	L C
ATOM	3672	C	GLY	L	16	35.537	-23.547	-54.026	1.00	36.11	L C
ATOM	3673	O	GLY	L	16	35.416	-23.925	-55.191	1.00	41.60	L O
ATOM	3675	N	ASP	L	17	35.151	-24.279	-52.986	1.00	36.76	L N
ATOM	3676	CA	ASP	L	17	34.546	-25.580	-53.143	1.00	31.73	L C
ATOM	3678	CB	ASP	L	17	34.574	-26.411	-51.822	1.00	31.16	L C

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ATOM	3681	CG	ASP	L	17	35.902	-27.181	-51.611	1.00	32.15	L	C
ATOM	3682	OD1	ASP	L	17	36.829	-26.974	-52.425	1.00	33.00	L	O
ATOM	3683	OD2	ASP	L	17	35.997	-28.019	-50.654	1.00	24.25	L	O
ATOM	3684	C	ASP	L	17	33.120	-25.372	-53.580	1.00	32.08	L	C
ATOM	3685	O	ASP	L	17	32.532	-24.317	-53.351	1.00	35.87	L	O
ATOM	3687	N	ARG	L	18	32.567	-26.387	-54.218	1.00	34.16	L	N
ATOM	3688	CA	ARG	L	18	31.141	-26.435	-54.465	1.00	33.01	L	C
ATOM	3690	CB	ARG	L	18	30.846	-27.100	-55.812	1.00	33.19	L	C
ATOM	3693	CG	ARG	L	18	29.359	-27.330	-56.089	1.00	35.75	L	C
ATOM	3696	CD	ARG	L	18	29.156	-27.905	-57.462	1.00	37.32	L	C
ATOM	3699	NE	ARG	L	18	29.553	-26.954	-58.488	1.00	36.87	L	N
ATOM	3701	CZ	ARG	L	18	29.498	-27.190	-59.786	1.00	34.97	L	C
ATOM	3702	NH1	ARG	L	18	29.049	-28.349	-60.229	1.00	38.66	L	N
ATOM	3705	NH2	ARG	L	18	29.877	-26.250	-60.642	1.00	36.37	L	N
ATOM	3708	C	ARG	L	18	30.473	-27.183	-53.316	1.00	28.49	L	C
ATOM	3709	O	ARG	L	18	30.874	-28.276	-52.960	1.00	32.92	L	O
ATOM	3711	N	VAL	L	19	29.447	-26.573	-52.738	1.00	34.41	L	N
ATOM	3712	CA	VAL	L	19	28.672	-27.175	-51.661	1.00	26.15	L	C
ATOM	3714	CB	VAL	L	19	28.517	-26.188	-50.477	1.00	29.37	L	C
ATOM	3716	CG1	VAL	L	19	27.402	-26.632	-49.510	1.00	13.13	L	C
ATOM	3720	CG2	VAL	L	19	29.825	-26.058	-49.736	1.00	27.77	L	C
ATOM	3724	C	VAL	L	19	27.314	-27.540	-52.221	1.00	28.29	L	C
ATOM	3725	O	VAL	L	19	26.685	-26.717	-52.871	1.00	32.27	L	O
ATOM	3727	N	THR	L	20	26.865	-28.777	-52.004	1.00	30.11	L	N
ATOM	3728	CA	THR	L	20	25.578	-29.215	-52.546	1.00	28.11	L	C
ATOM	3730	CB	THR	L	20	25.702	-30.235	-53.721	1.00	28.33	L	C
ATOM	3732	OG1	THR	L	20	25.678	-31.556	-53.194	1.00	37.86	L	O
ATOM	3734	CG2	THR	L	20	26.998	-30.033	-54.549	1.00	28.52	L	C
ATOM	3738	C	THR	L	20	24.756	-29.803	-51.413	1.00	22.56	L	C
ATOM	3739	O	THR	L	20	25.264	-30.622	-50.643	1.00	23.99	L	O
ATOM	3741	N	ILE	L	21	23.500	-29.351	-51.305	1.00	23.02	L	N
ATOM	3742	CA	ILE	L	21	22.597	-29.713	-50.204	1.00	24.76	L	C
ATOM	3744	CB	ILE	L	21	22.335	-28.500	-49.276	1.00	26.36	L	C
ATOM	3746	CG1	ILE	L	21	23.636	-28.022	-48.661	1.00	27.83	L	C
ATOM	3749	CD1	ILE	L	21	23.499	-26.733	-47.883	1.00	27.59	L	C
ATOM	3753	CG2	ILE	L	21	21.284	-28.846	-48.184	1.00	24.60	L	C
ATOM	3757	C	ILE	L	21	21.252	-30.203	-50.772	1.00	25.49	L	C
ATOM	3758	O	ILE	L	21	20.670	-29.564	-51.643	1.00	24.12	L	O
ATOM	3760	N	THR	L	22	20.762	-31.322	-50.258	1.00	28.51	L	N
ATOM	3761	CA	THR	L	22	19.543	-31.973	-50.756	1.00	28.34	L	C
ATOM	3763	CB	THR	L	22	19.775	-33.484	-50.860	1.00	27.86	L	C
ATOM	3765	OG1	THR	L	22	20.925	-33.702	-51.685	1.00	28.86	L	O
ATOM	3767	CG2	THR	L	22	18.598	-34.169	-51.487	1.00	31.64	L	C
ATOM	3771	C	THR	L	22	18.312	-31.745	-49.875	1.00	28.39	L	C
ATOM	3772	O	THR	L	22	18.417	-31.661	-48.665	1.00	28.85	L	O
ATOM	3774	N	CYS	L	23	17.152	-31.651	-50.515	1.00	24.36	L	N
ATOM	3775	CA	CYS	L	23	15.860	-31.713	-49.844	1.00	30.90	L	C
ATOM	3777	CB	CYS	L	23	15.220	-30.334	-49.622	1.00	28.47	L	C
ATOM	3780	SG	CYS	L	23	15.879	-29.641	-48.113	1.00	46.68	L	S
ATOM	3782	C	CYS	L	23	14.948	-32.589	-50.648	1.00	24.86	L	C
ATOM	3783	O	CYS	L	23	14.840	-32.448	-51.857	1.00	30.27	L	O
ATOM	3785	N	ILE	L	24	14.300	-33.497	-49.944	1.00	21.35	L	N
ATOM	3786	CA	ILE	L	24	13.432	-34.470	-50.550	1.00	21.76	L	C
ATOM	3788	CB	ILE	L	24	14.022	-35.898	-50.468	1.00	22.43	L	C
ATOM	3790	CG1	ILE	L	24	15.414	-35.929	-51.152	1.00	26.49	L	C
ATOM	3793	CD1	ILE	L	24	16.068	-37.317	-51.209	1.00	25.20	L	C
ATOM	3797	CG2	ILE	L	24	13.119	-36.866	-51.181	1.00	20.83	L	C
ATOM	3801	C	ILE	L	24	12.102	-34.335	-49.860	1.00	18.64	L	C
ATOM	3802	O	ILE	L	24	12.027	-34.296	-48.628	1.00	17.98	L	O
ATOM	3804	N	THR	L	25	11.050	-34.201	-50.652	1.00	23.57	L	N
ATOM	3805	CA	THR	L	25	9.698	-34.020	-50.104	1.00	23.75	L	C
ATOM	3807	CB	THR	L	25	8.943	-32.888	-50.852	1.00	18.41	L	C
ATOM	3809	OG1	THR	L	25	8.984	-33.140	-52.267	1.00	20.65	L	O
ATOM	3811	CG2	THR	L	25	9.592	-31.554	-50.576	1.00	14.27	L	C
ATOM	3815	C	THR	L	25	8.924	-35.327	-50.152	1.00	24.60	L	C
ATOM	3816	O	THR	L	25	9.258	-36.241	-50.907	1.00	20.79	L	O
ATOM	3818	N	SER	L	26	7.913	-35.429	-49.292	1.00	27.54	L	N
ATOM	3819	CA	SER	L	26	7.117	-36.638	-49.187	1.00	26.71	L	C

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ATOM	3821	CB	SER	L	26	6.270	-36.584	-47.920	1.00	24.35	L C
ATOM	3824	OG	SER	L	26	5.555	-35.374	-47.864	1.00	26.34	L O
ATOM	3826	C	SER	L	26	6.201	-36.887	-50.396	1.00	27.41	L C
ATOM	3827	O	SER	L	26	5.859	-38.047	-50.695	1.00	29.52	L O
ATOM	3829	N	THR	L	27	5.771	-35.794	-51.029	1.00	25.00	L N
ATOM	3830	CA	THR	L	27	4.819	-35.796	-52.150	1.00	22.02	L C
ATOM	3832	CB	THR	L	27	3.409	-35.340	-51.688	1.00	20.90	L C
ATOM	3834	OG1	THR	L	27	2.438	-35.709	-52.665	1.00	26.04	L O
ATOM	3836	CG2	THR	L	27	3.353	-33.845	-51.474	1.00	14.67	L C
ATOM	3840	C	THR	L	27	5.299	-34.800	-53.180	1.00	23.00	L C
ATOM	3841	O	THR	L	27	6.064	-33.900	-52.833	1.00	22.69	L O
ATOM	3843	N	ASP	L	28	4.850	-34.955	-54.431	1.00	22.00	L N
ATOM	3844	CA	ASP	L	28	5.253	-34.072	-55.552	1.00	18.45	L C
ATOM	3846	CB	ASP	L	28	4.624	-34.602	-56.853	1.00	20.06	L C
ATOM	3849	CG	ASP	L	28	4.972	-33.785	-58.088	1.00	24.86	L C
ATOM	3850	OD1	ASP	L	28	5.436	-32.632	-57.975	1.00	27.72	L O
ATOM	3851	OD2	ASP	L	28	4.742	-34.296	-59.213	1.00	26.40	L O
ATOM	3852	C	ASP	L	28	4.800	-32.638	-55.279	1.00	22.12	L C
ATOM	3853	O	ASP	L	28	3.614	-32.399	-55.072	1.00	27.10	L O
ATOM	3855	N	ILE	L	29	5.745	-31.695	-55.240	1.00	22.75	L N
ATOM	3856	CA	ILE	L	29	5.438	-30.293	-54.968	1.00	18.57	L C
ATOM	3858	CB	ILE	L	29	6.226	-29.738	-53.735	1.00	8.50	L C
ATOM	3860	CG1	ILE	L	29	7.748	-29.896	-53.882	1.00	15.18	L C
ATOM	3863	CD1	ILE	L	29	8.588	-28.706	-53.323	1.00	13.13	L C
ATOM	3867	CG2	ILE	L	29	5.713	-30.391	-52.379	1.00	9.90	L C
ATOM	3871	C	ILE	L	29	5.674	-29.383	-56.192	1.00	23.83	L C
ATOM	3872	O	ILE	L	29	5.738	-28.151	-56.061	1.00	31.83	L O
ATOM	3874	N	ASP	L	30	5.768	-29.983	-57.373	1.00	25.88	L N
ATOM	3875	CA	ASP	L	30	6.128	-29.279	-58.601	1.00	23.97	L C
ATOM	3877	CB	ASP	L	30	4.999	-28.355	-59.054	1.00	25.05	L C
ATOM	3880	CG	ASP	L	30	3.685	-29.096	-59.201	1.00	32.71	L C
ATOM	3881	OD1	ASP	L	30	3.671	-30.091	-59.968	1.00	36.70	L O
ATOM	3882	OD2	ASP	L	30	2.685	-28.706	-58.545	1.00	30.24	L O
ATOM	3883	C	ASP	L	30	7.455	-28.556	-58.395	1.00	22.32	L C
ATOM	3884	O	ASP	L	30	8.430	-29.195	-58.031	1.00	24.00	L O
ATOM	3886	N	ASP	L	31	7.507	-27.248	-58.600	1.00	20.65	L N
ATOM	3887	CA	ASP	L	31	8.760	-26.525	-58.476	1.00	23.99	L C
ATOM	3889	CB	ASP	L	31	9.078	-25.728	-59.763	1.00	28.76	L C
ATOM	3892	CG	ASP	L	31	8.067	-24.620	-60.046	1.00	38.63	L C
ATOM	3893	OD1	ASP	L	31	7.014	-24.592	-59.374	1.00	43.13	L O
ATOM	3894	OD2	ASP	L	31	8.309	-23.776	-60.943	1.00	46.83	L O
ATOM	3895	C	ASP	L	31	8.744	-25.614	-57.265	1.00	22.71	L C
ATOM	3896	O	ASP	L	31	9.570	-24.726	-57.160	1.00	20.16	L O
ATOM	3898	N	ASP	L	32	7.833	-25.855	-56.318	1.00	28.27	L N
ATOM	3899	CA	ASP	L	32	7.597	-24.916	-55.235	1.00	20.77	L C
ATOM	3901	CB	ASP	L	32	6.122	-24.950	-54.827	1.00	29.58	L C
ATOM	3904	CG	ASP	L	32	5.237	-24.379	-55.891	1.00	26.44	L C
ATOM	3905	OD1	ASP	L	32	5.508	-23.213	-56.296	1.00	24.61	L O
ATOM	3906	OD2	ASP	L	32	4.305	-25.096	-56.324	1.00	24.64	L O
ATOM	3907	C	ASP	L	32	8.500	-25.127	-54.033	1.00	24.20	L C
ATOM	3908	O	ASP	L	32	8.044	-25.367	-52.900	1.00	15.84	L O
ATOM	3910	N	MET	L	33	9.795	-24.983	-54.294	1.00	21.65	L N
ATOM	3911	CA	MET	L	33	10.836	-25.134	-53.273	1.00	25.55	L C
ATOM	3913	CB	MET	L	33	11.856	-26.184	-53.747	1.00	22.69	L C
ATOM	3916	CG	MET	L	33	12.972	-26.481	-52.810	1.00	23.30	L C
ATOM	3919	SD	MET	L	33	12.461	-26.911	-51.135	1.00	24.74	L S
ATOM	3920	CE	MET	L	33	11.715	-28.515	-51.300	1.00	26.62	L C
ATOM	3924	C	MET	L	33	11.551	-23.806	-53.020	1.00	27.50	L C
ATOM	3925	O	MET	L	33	11.872	-23.074	-53.953	1.00	28.56	L O
ATOM	3927	N	ASN	L	34	11.810	-23.517	-51.744	1.00	31.83	L N
ATOM	3928	CA	ASN	L	34	12.614	-22.360	-51.350	1.00	26.61	L C
ATOM	3930	CB	ASN	L	34	11.755	-21.394	-50.541	1.00	21.75	L C
ATOM	3933	CG	ASN	L	34	10.412	-21.093	-51.214	1.00	19.36	L C
ATOM	3934	OD1	ASN	L	34	10.164	-19.971	-51.623	1.00	21.78	L O
ATOM	3935	ND2	ASN	L	34	9.546	-22.094	-51.314	1.00	18.75	L N
ATOM	3938	C	ASN	L	34	13.844	-22.764	-50.525	1.00	24.66	L C
ATOM	3939	O	ASN	L	34	13.883	-23.829	-49.930	1.00	28.75	L O
ATOM	3941	N	TRP	L	35	14.832	-21.886	-50.496	1.00	24.16	L N

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ATOM	3942	CA	TRP	L	35	16.076	-22.099	-49.784	1.00	22.17	L C
ATOM	3944	CB	TRP	L	35	17.201	-22.410	-50.775	1.00	23.27	L C
ATOM	3947	CG	TRP	L	35	17.131	-23.763	-51.369	1.00	20.36	L C
ATOM	3948	CD1	TRP	L	35	16.749	-24.076	-52.647	1.00	22.31	L C
ATOM	3950	NE1	TRP	L	35	16.825	-25.420	-52.847	1.00	18.60	L N
ATOM	3952	CE2	TRP	L	35	17.224	-26.028	-51.688	1.00	20.03	L C
ATOM	3953	CD2	TRP	L	35	17.438	-25.014	-50.732	1.00	18.92	L C
ATOM	3954	CE3	TRP	L	35	17.892	-25.375	-49.467	1.00	20.16	L C
ATOM	3956	CZ3	TRP	L	35	18.110	-26.744	-49.192	1.00	20.54	L C
ATOM	3958	CH2	TRP	L	35	17.904	-27.714	-50.161	1.00	20.08	L C
ATOM	3960	CZ2	TRP	L	35	17.449	-27.383	-51.412	1.00	23.98	L C
ATOM	3962	C	TRP	L	35	16.406	-20.840	-49.001	1.00	20.27	L C
ATOM	3963	O	TRP	L	35	16.560	-19.770	-49.586	1.00	19.60	L O
ATOM	3965	N	TYR	L	36	16.427	-20.947	-47.670	1.00	25.41	L N
ATOM	3966	CA	TYR	L	36	16.842	-19.835	-46.821	1.00	23.57	L C
ATOM	3968	CB	TYR	L	36	15.926	-19.693	-45.597	1.00	25.19	L C
ATOM	3971	CG	TYR	L	36	14.473	-19.357	-45.861	1.00	25.99	L C
ATOM	3972	CD1	TYR	L	36	14.009	-18.045	-45.726	1.00	21.32	L C
ATOM	3974	CE1	TYR	L	36	12.697	-17.732	-45.935	1.00	26.14	L C
ATOM	3976	CZ	TYR	L	36	11.801	-18.719	-46.265	1.00	25.62	L C
ATOM	3977	OH	TYR	L	36	10.488	-18.379	-46.453	1.00	28.27	L O
ATOM	3979	CE2	TYR	L	36	12.220	-20.039	-46.404	1.00	25.74	L C
ATOM	3981	CD2	TYR	L	36	13.553	-20.349	-46.201	1.00	24.71	L C
ATOM	3983	C	TYR	L	36	18.294	-19.979	-46.325	1.00	23.47	L C
ATOM	3984	O	TYR	L	36	18.840	-21.089	-46.222	1.00	24.41	L O
ATOM	3986	N	GLN	L	37	18.917	-18.836	-46.014	1.00	19.56	L N
ATOM	3987	CA	GLN	L	37	20.226	-18.818	-45.365	1.00	23.88	L C
ATOM	3989	CB	GLN	L	37	21.245	-18.062	-46.210	1.00	24.43	L C
ATOM	3992	CG	GLN	L	37	22.563	-17.679	-45.483	1.00	22.44	L C
ATOM	3995	CD	GLN	L	37	23.402	-16.742	-46.331	1.00	24.17	L C
ATOM	3996	OE1	GLN	L	37	23.039	-15.582	-46.513	1.00	33.10	L O
ATOM	3997	NE2	GLN	L	37	24.491	-17.250	-46.903	1.00	23.99	L N
ATOM	4000	C	GLN	L	37	20.059	-18.124	-44.045	1.00	17.12	L C
ATOM	4001	O	GLN	L	37	19.440	-17.074	-43.986	1.00	24.86	L O
ATOM	4003	N	GLN	L	38	20.567	-18.707	-42.970	1.00	24.77	L N
ATOM	4004	CA	GLN	L	38	20.549	-17.992	-41.686	1.00	25.58	L C
ATOM	4006	CB	GLN	L	38	19.579	-18.628	-40.715	1.00	22.19	L C
ATOM	4009	CG	GLN	L	38	19.356	-17.810	-39.436	1.00	21.64	L C
ATOM	4012	CD	GLN	L	38	18.661	-18.585	-38.367	1.00	26.69	L C
ATOM	4013	OE1	GLN	L	38	18.684	-19.815	-38.366	1.00	31.66	L O
ATOM	4014	NE2	GLN	L	38	18.030	-17.872	-37.429	1.00	17.41	L N
ATOM	4017	C	GLN	L	38	21.951	-17.957	-41.100	1.00	29.75	L C
ATOM	4018	O	GLN	L	38	22.482	-18.986	-40.692	1.00	31.30	L O
ATOM	4020	N	LYS	L	39	22.548	-16.768	-41.076	1.00	30.91	L N
ATOM	4021	CA	LYS	L	39	23.858	-16.582	-40.465	1.00	31.89	L C
ATOM	4023	CB	LYS	L	39	24.555	-15.350	-41.033	1.00	35.23	L C
ATOM	4026	CG	LYS	L	39	24.588	-15.303	-42.567	1.00	35.45	L C
ATOM	4029	CD	LYS	L	39	25.842	-14.590	-43.047	1.00	38.63	L C
ATOM	4032	CE	LYS	L	39	25.647	-13.726	-44.298	1.00	39.59	L C
ATOM	4035	NZ	LYS	L	39	26.303	-14.324	-45.496	1.00	42.07	L N
ATOM	4039	C	LYS	L	39	23.702	-16.474	-38.948	1.00	33.63	L C
ATOM	4040	O	LYS	L	39	22.599	-16.193	-38.457	1.00	28.91	L O
ATOM	4042	N	PRO	L	40	24.790	-16.759	-38.197	1.00	37.93	L N
ATOM	4043	CA	PRO	L	40	24.840	-16.649	-36.728	1.00	37.74	L C
ATOM	4045	CB	PRO	L	40	26.342	-16.655	-36.433	1.00	40.69	L C
ATOM	4048	CG	PRO	L	40	26.980	-17.368	-37.594	1.00	40.63	L C
ATOM	4051	CD	PRO	L	40	26.050	-17.300	-38.757	1.00	38.43	L C
ATOM	4054	C	PRO	L	40	24.195	-15.371	-36.156	1.00	39.38	L C
ATOM	4055	O	PRO	L	40	24.649	-14.270	-36.464	1.00	36.28	L O
ATOM	4056	N	GLY	L	41	23.144	-15.531	-35.350	1.00	35.09	L N
ATOM	4057	CA	GLY	L	41	22.422	-14.395	-34.761	1.00	39.17	L C
ATOM	4060	C	GLY	L	41	21.688	-13.455	-35.715	1.00	38.72	L C
ATOM	4061	O	GLY	L	41	21.371	-12.316	-35.352	1.00	33.46	L O
ATOM	4063	N	LYS	L	42	21.424	-13.922	-36.935	1.00	39.83	L N
ATOM	4064	CA	LYS	L	42	20.719	-13.127	-37.937	1.00	37.06	L C
ATOM	4066	CB	LYS	L	42	21.546	-12.976	-39.224	1.00	39.99	L C
ATOM	4069	CG	LYS	L	42	22.928	-12.342	-39.080	1.00	43.38	L C
ATOM	4072	CD	LYS	L	42	22.904	-11.011	-38.336	1.00	44.34	L C

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ATOM	4075	CE	LYS	L	42	24.307	-10.398	-38.236	1.00	44.50	L C
ATOM	4078	NZ	LYS	L	42	24.438	-9.439	-37.084	1.00	45.59	L N
ATOM	4082	C	LYS	L	42	19.368	-13.760	-38.276	1.00	34.04	L C
ATOM	4083	O	LYS	L	42	19.130	-14.937	-38.003	1.00	31.67	L O
ATOM	4085	N	VAL	L	43	18.496	-12.953	-38.874	1.00	31.52	L N
ATOM	4086	CA	VAL	L	43	17.206	-13.419	-39.344	1.00	29.80	L C
ATOM	4088	CB	VAL	L	43	16.180	-12.229	-39.474	1.00	32.57	L C
ATOM	4090	CG1	VAL	L	43	16.455	-11.360	-40.694	1.00	35.95	L C
ATOM	4094	CG2	VAL	L	43	14.760	-12.743	-39.526	1.00	33.03	L C
ATOM	4098	C	VAL	L	43	17.431	-14.190	-40.655	1.00	27.97	L C
ATOM	4099	O	VAL	L	43	18.371	-13.872	-41.420	1.00	27.65	L O
ATOM	4101	N	PRO	L	44	16.629	-15.252	-40.891	1.00	25.65	L N
ATOM	4102	CA	PRO	L	44	16.698	-15.932	-42.179	1.00	26.36	L C
ATOM	4104	CB	PRO	L	44	15.603	-17.001	-42.074	1.00	24.65	L C
ATOM	4107	CG	PRO	L	44	15.539	-17.286	-40.614	1.00	24.48	L C
ATOM	4110	CD	PRO	L	44	15.666	-15.925	-39.995	1.00	24.73	L C
ATOM	4113	C	PRO	L	44	16.485	-15.030	-43.383	1.00	25.81	L C
ATOM	4114	O	PRO	L	44	15.659	-14.101	-43.354	1.00	34.05	L O
ATOM	4115	N	LYS	L	45	17.276	-15.295	-44.418	1.00	28.51	L N
ATOM	4116	CA	LYS	L	45	17.189	-14.594	-45.688	1.00	29.34	L C
ATOM	4118	CB	LYS	L	45	18.514	-13.913	-46.025	1.00	30.98	L C
ATOM	4121	CG	LYS	L	45	18.502	-13.084	-47.293	1.00	34.25	L C
ATOM	4124	CD	LYS	L	45	19.854	-12.431	-47.505	1.00	35.85	L C
ATOM	4127	CE	LYS	L	45	20.155	-12.118	-48.979	1.00	39.81	L C
ATOM	4130	NZ	LYS	L	45	21.671	-12.011	-49.211	1.00	42.04	L N
ATOM	4134	C	LYS	L	45	16.823	-15.625	-46.741	1.00	22.45	L C
ATOM	4135	O	LYS	L	45	17.355	-16.711	-46.742	1.00	23.67	L O
ATOM	4137	N	LEU	L	46	15.878	-15.290	-47.612	1.00	28.51	L N
ATOM	4138	CA	LEU	L	46	15.478	-16.176	-48.693	1.00	29.44	L C
ATOM	4140	CB	LEU	L	46	14.035	-15.907	-49.125	1.00	27.74	L C
ATOM	4143	CG	LEU	L	46	13.432	-16.790	-50.212	1.00	26.95	L C
ATOM	4145	CD1	LEU	L	46	13.217	-18.182	-49.722	1.00	29.96	L C
ATOM	4149	CD2	LEU	L	46	12.130	-16.242	-50.678	1.00	25.49	L C
ATOM	4153	C	LEU	L	46	16.431	-15.917	-49.837	1.00	29.15	L C
ATOM	4154	O	LEU	L	46	16.542	-14.793	-50.308	1.00	29.85	L O
ATOM	4156	N	LEU	L	47	17.130	-16.962	-50.261	1.00	26.91	L N
ATOM	4157	CA	LEU	L	47	18.032	-16.866	-51.410	1.00	29.30	L C
ATOM	4159	CB	LEU	L	47	19.312	-17.660	-51.151	1.00	26.60	L C
ATOM	4162	CG	LEU	L	47	20.169	-17.302	-49.944	1.00	27.06	L C
ATOM	4164	CD1	LEU	L	47	21.481	-18.057	-50.023	1.00	29.57	L C
ATOM	4168	CD2	LEU	L	47	20.418	-15.813	-49.829	1.00	28.71	L C
ATOM	4172	C	LEU	L	47	17.407	-17.348	-52.723	1.00	29.56	L C
ATOM	4173	O	LEU	L	47	17.657	-16.767	-53.777	1.00	24.98	L O
ATOM	4175	N	ILE	L	48	16.632	-18.431	-52.653	1.00	29.93	L N
ATOM	4176	CA	ILE	L	48	16.043	-19.067	-53.834	1.00	29.86	L C
ATOM	4178	CB	ILE	L	48	16.714	-20.421	-54.175	1.00	31.28	L C
ATOM	4180	CG1	ILE	L	48	18.252	-20.310	-54.230	1.00	30.56	L C
ATOM	4183	CD1	ILE	L	48	18.791	-19.744	-55.519	1.00	29.17	L C
ATOM	4187	CG2	ILE	L	48	16.193	-20.965	-55.505	1.00	30.35	L C
ATOM	4191	C	ILE	L	48	14.565	-19.334	-53.578	1.00	30.99	L C
ATOM	4192	O	ILE	L	48	14.162	-19.761	-52.484	1.00	30.01	L O
ATOM	4194	N	SER	L	49	13.745	-19.073	-54.581	1.00	27.94	L N
ATOM	4195	CA	SER	L	49	12.311	-19.306	-54.455	1.00	29.29	L C
ATOM	4197	CB	SER	L	49	11.565	-17.982	-54.462	1.00	29.00	L C
ATOM	4200	OG	SER	L	49	11.904	-17.255	-55.629	1.00	28.87	L O
ATOM	4202	C	SER	L	49	11.855	-20.173	-55.604	1.00	29.64	L C
ATOM	4203	O	SER	L	49	12.597	-20.379	-56.547	1.00	35.91	L O
ATOM	4205	N	GLY	L	50	10.615	-20.652	-55.520	1.00	33.07	L N
ATOM	4206	CA	GLY	L	50	10.043	-21.574	-56.478	1.00	30.92	L C
ATOM	4209	C	GLY	L	50	10.491	-21.370	-57.906	1.00	32.01	L C
ATOM	4210	O	GLY	L	50	10.546	-20.234	-58.380	1.00	35.43	L O
ATOM	4212	N	GLY	L	51	10.801	-22.471	-58.594	1.00	26.66	L N
ATOM	4213	CA	GLY	L	51	11.280	-22.407	-60.003	1.00	35.10	L C
ATOM	4216	C	GLY	L	51	12.785	-22.201	-60.067	1.00	37.69	L C
ATOM	4217	O	GLY	L	51	13.396	-21.931	-61.143	1.00	34.90	L O
ATOM	4219	N	ASN	L	52	13.358	-22.324	-58.873	1.00	40.07	L N
ATOM	4220	CA	ASN	L	52	14.744	-22.029	-58.584	1.00	38.26	L C
ATOM	4222	CB	ASN	L	52	15.556	-23.266	-58.795	1.00	40.16	L C

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ATOM	4225	CG	ASN	L	52	15.135	-24.369	-57.782	1.00	42.80	L	C
ATOM	4226	OD1	ASN	L	52	15.803	-25.379	-57.641	1.00	53.29	L	O
ATOM	4227	ND2	ASN	L	52	14.009	-24.145	-57.069	1.00	42.56	L	N
ATOM	4230	C	ASN	L	52	15.246	-20.728	-59.177	1.00	36.48	L	C
ATOM	4231	O	ASN	L	52	16.255	-20.618	-59.886	1.00	38.92	L	O
ATOM	4233	N	THR	L	53	14.461	-19.736	-58.770	1.00	32.39	L	N
ATOM	4234	CA	THR	L	53	14.611	-18.338	-59.066	1.00	32.29	L	C
ATOM	4236	CB	THR	L	53	13.217	-17.664	-58.983	1.00	29.69	L	C
ATOM	4238	OG1	THR	L	53	12.321	-18.346	-59.864	1.00	32.35	L	O
ATOM	4240	CG2	THR	L	53	13.281	-16.168	-59.320	1.00	26.64	L	C
ATOM	4244	C	THR	L	53	15.489	-17.761	-57.986	1.00	31.58	L	C
ATOM	4245	O	THR	L	53	15.122	-17.815	-56.803	1.00	23.39	L	O
ATOM	4247	N	LEU	L	54	16.638	-17.232	-58.404	1.00	31.18	L	N
ATOM	4248	CA	LEU	L	54	17.570	-16.518	-57.532	1.00	31.99	L	C
ATOM	4250	CB	LEU	L	54	18.958	-16.428	-58.193	1.00	28.80	L	C
ATOM	4253	CG	LEU	L	54	20.112	-15.744	-57.437	1.00	33.35	L	C
ATOM	4255	CD1	LEU	L	54	20.471	-16.454	-56.127	1.00	30.74	L	C
ATOM	4259	CD2	LEU	L	54	21.312	-15.648	-58.344	1.00	33.92	L	C
ATOM	4263	C	LEU	L	54	17.065	-15.125	-57.259	1.00	30.83	L	C
ATOM	4264	O	LEU	L	54	16.852	-14.348	-58.201	1.00	28.78	L	O
ATOM	4266	N	ARG	L	55	16.902	-14.799	-55.974	1.00	34.36	L	N
ATOM	4267	CA	ARG	L	55	16.399	-13.499	-55.566	1.00	35.76	L	C
ATOM	4269	CB	ARG	L	55	15.995	-13.487	-54.072	1.00	42.99	L	C
ATOM	4272	CG	ARG	L	55	14.716	-14.345	-53.720	1.00	46.72	L	C
ATOM	4275	CD	ARG	L	55	13.512	-14.104	-54.684	1.00	48.01	L	C
ATOM	4278	NE	ARG	L	55	12.227	-14.692	-54.237	1.00	50.48	L	N
ATOM	4280	CZ	ARG	L	55	11.286	-14.074	-53.510	1.00	49.73	L	C
ATOM	4281	NH1	ARG	L	55	11.455	-12.821	-53.111	1.00	52.37	L	N
ATOM	4284	NH2	ARG	L	55	10.160	-14.717	-53.175	1.00	47.12	L	N
ATOM	4287	C	ARG	L	55	17.445	-12.424	-55.875	1.00	38.88	L	C
ATOM	4288	O	ARG	L	55	18.645	-12.642	-55.681	1.00	35.64	L	O
ATOM	4290	N	PRO	L	56	16.996	-11.274	-56.415	1.00	42.75	L	N
ATOM	4291	CA	PRO	L	56	17.910	-10.164	-56.723	1.00	38.04	L	C
ATOM	4293	CB	PRO	L	56	16.979	-9.035	-57.185	1.00	40.47	L	C
ATOM	4296	CG	PRO	L	56	15.594	-9.551	-57.098	1.00	43.33	L	C
ATOM	4299	CD	PRO	L	56	15.605	-10.999	-56.818	1.00	40.69	L	C
ATOM	4302	C	PRO	L	56	18.738	-9.710	-55.521	1.00	35.39	L	C
ATOM	4303	O	PRO	L	56	18.215	-9.615	-54.414	1.00	31.42	L	O
ATOM	4304	N	GLY	L	57	20.022	-9.429	-55.752	1.00	36.50	L	N
ATOM	4305	CA	GLY	L	57	20.952	-9.083	-54.679	1.00	35.10	L	C
ATOM	4308	C	GLY	L	57	21.757	-10.262	-54.166	1.00	33.15	L	C
ATOM	4309	O	GLY	L	57	22.854	-10.089	-53.645	1.00	36.74	L	O
ATOM	4311	N	VAL	L	58	21.216	-11.469	-54.315	1.00	36.35	L	N
ATOM	4312	CA	VAL	L	58	21.919	-12.685	-53.926	1.00	34.96	L	C
ATOM	4314	CB	VAL	L	58	20.922	-13.823	-53.634	1.00	31.40	L	C
ATOM	4316	CG1	VAL	L	58	21.643	-15.051	-53.159	1.00	24.70	L	C
ATOM	4320	CG2	VAL	L	58	19.910	-13.369	-52.588	1.00	30.20	L	C
ATOM	4324	C	VAL	L	58	22.911	-13.064	-55.046	1.00	37.32	L	C
ATOM	4325	O	VAL	L	58	22.561	-12.994	-56.227	1.00	37.20	L	O
ATOM	4327	N	PRO	L	59	24.165	-13.408	-54.685	1.00	36.98	L	N
ATOM	4328	CA	PRO	L	59	25.184	-13.728	-55.696	1.00	37.70	L	C
ATOM	4330	CB	PRO	L	59	26.432	-13.999	-54.855	1.00	40.50	L	C
ATOM	4333	CG	PRO	L	59	26.182	-13.278	-53.568	1.00	40.80	L	C
ATOM	4336	CD	PRO	L	59	24.729	-13.428	-53.326	1.00	37.44	L	C
ATOM	4339	C	PRO	L	59	24.872	-14.928	-56.589	1.00	40.91	L	C
ATOM	4340	O	PRO	L	59	24.264	-15.903	-56.141	1.00	45.71	L	O
ATOM	4341	N	SER	L	60	25.305	-14.856	-57.846	1.00	39.77	L	N
ATOM	4342	CA	SER	L	60	25.079	-15.922	-58.812	1.00	37.60	L	C
ATOM	4344	CB	SER	L	60	25.563	-15.489	-60.202	1.00	42.77	L	C
ATOM	4347	OG	SER	L	60	26.952	-15.191	-60.207	1.00	44.83	L	O
ATOM	4349	C	SER	L	60	25.738	-17.257	-58.428	1.00	38.54	L	C
ATOM	4350	O	SER	L	60	25.451	-18.297	-59.037	1.00	38.30	L	O
ATOM	4352	N	ARG	L	61	26.613	-17.259	-57.426	1.00	34.92	L	N
ATOM	4353	CA	ARG	L	61	27.218	-18.532	-57.003	1.00	31.55	L	C
ATOM	4355	CB	ARG	L	61	28.444	-18.317	-56.098	1.00	31.06	L	C
ATOM	4358	CG	ARG	L	61	28.142	-17.732	-54.727	1.00	34.63	L	C
ATOM	4361	CD	ARG	L	61	29.338	-17.887	-53.785	1.00	34.52	L	C
ATOM	4364	NE	ARG	L	61	29.144	-17.107	-52.568	1.00	35.07	L	N

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ATOM	4366	CZ	ARG	L	61	29.317	-15.793	-52.479	1.00	35.28	L	C
ATOM	4367	NH1	ARG	L	61	29.681	-15.080	-53.535	1.00	40.23	L	N
ATOM	4370	NH2	ARG	L	61	29.117	-15.176	-51.322	1.00	35.77	L	N
ATOM	4373	C	ARG	L	61	26.175	-19.473	-56.375	1.00	28.28	L	C
ATOM	4374	O	ARG	L	61	26.363	-20.698	-56.373	1.00	28.68	L	O
ATOM	4376	N	PHE	L	62	25.075	-18.910	-55.865	1.00	32.78	L	N
ATOM	4377	CA	PHE	L	62	23.943	-19.704	-55.370	1.00	29.72	L	C
ATOM	4379	CB	PHE	L	62	23.162	-18.929	-54.317	1.00	30.01	L	C
ATOM	4382	CG	PHE	L	62	23.925	-18.655	-53.061	1.00	28.54	L	C
ATOM	4383	CD1	PHE	L	62	23.847	-19.530	-51.980	1.00	29.80	L	C
ATOM	4385	CE1	PHE	L	62	24.530	-19.274	-50.818	1.00	29.58	L	C
ATOM	4387	CZ	PHE	L	62	25.289	-18.122	-50.707	1.00	30.15	L	C
ATOM	4389	CE2	PHE	L	62	25.369	-17.231	-51.771	1.00	28.84	L	C
ATOM	4391	CD2	PHE	L	62	24.690	-17.503	-52.938	1.00	32.91	L	C
ATOM	4393	C	PHE	L	62	22.965	-20.079	-56.471	1.00	29.31	L	C
ATOM	4394	O	PHE	L	62	22.393	-19.196	-57.127	1.00	29.29	L	O
ATOM	4396	N	SER	L	63	22.747	-21.383	-56.652	1.00	27.16	L	N
ATOM	4397	CA	SER	L	63	21.741	-21.887	-57.605	1.00	31.28	L	C
ATOM	4399	CB	SER	L	63	22.396	-22.392	-58.893	1.00	27.83	L	C
ATOM	4402	OG	SER	L	63	23.470	-23.230	-58.557	1.00	34.49	L	O
ATOM	4404	C	SER	L	63	20.889	-22.988	-57.002	1.00	31.82	L	C
ATOM	4405	O	SER	L	63	21.319	-23.705	-56.097	1.00	37.45	L	O
ATOM	4407	N	GLY	L	64	19.654	-23.086	-57.490	1.00	30.47	L	N
ATOM	4408	CA	GLY	L	64	18.760	-24.150	-57.104	1.00	28.02	L	C
ATOM	4411	C	GLY	L	64	18.483	-25.016	-58.313	1.00	27.03	L	C
ATOM	4412	O	GLY	L	64	18.468	-24.526	-59.434	1.00	34.99	L	O
ATOM	4414	N	SER	L	65	18.257	-26.305	-58.088	1.00	30.05	L	N
ATOM	4415	CA	SER	L	65	17.753	-27.189	-59.134	1.00	29.26	L	C
ATOM	4417	CB	SER	L	65	18.903	-27.902	-59.858	1.00	34.20	L	C
ATOM	4420	OG	SER	L	65	19.588	-28.813	-59.018	1.00	39.69	L	O
ATOM	4422	C	SER	L	65	16.748	-28.184	-58.592	1.00	28.73	L	C
ATOM	4423	O	SER	L	65	16.629	-28.385	-57.383	1.00	32.61	L	O
ATOM	4425	N	GLY	L	66	15.997	-28.782	-59.508	1.00	30.22	L	N
ATOM	4426	CA	GLY	L	66	15.077	-29.845	-59.172	1.00	27.50	L	C
ATOM	4429	C	GLY	L	66	13.626	-29.460	-59.307	1.00	26.84	L	C
ATOM	4430	O	GLY	L	66	13.264	-28.283	-59.321	1.00	31.78	L	O
ATOM	4432	N	SER	L	67	12.793	-30.486	-59.376	1.00	31.57	L	N
ATOM	4433	CA	SER	L	67	11.363	-30.356	-59.557	1.00	33.48	L	C
ATOM	4435	CB	SER	L	67	11.050	-30.073	-61.031	1.00	40.62	L	C
ATOM	4438	OG	SER	L	67	9.708	-29.636	-61.152	1.00	50.74	L	O
ATOM	4440	C	SER	L	67	10.722	-31.668	-59.133	1.00	33.67	L	C
ATOM	4441	O	SER	L	67	11.302	-32.728	-59.355	1.00	43.40	L	O
ATOM	4443	N	GLY	L	68	9.547	-31.615	-58.508	1.00	29.66	L	N
ATOM	4444	CA	GLY	L	68	8.871	-32.831	-58.094	1.00	27.58	L	C
ATOM	4447	C	GLY	L	68	9.060	-33.104	-56.624	1.00	25.21	L	C
ATOM	4448	O	GLY	L	68	8.441	-32.430	-55.807	1.00	24.35	L	O
ATOM	4450	N	THR	L	69	9.911	-34.087	-56.281	1.00	29.76	L	N
ATOM	4451	CA	THR	L	69	10.236	-34.396	-54.873	1.00	23.15	L	C
ATOM	4453	CB	THR	L	69	9.956	-35.884	-54.475	1.00	22.87	L	C
ATOM	4455	OG1	THR	L	69	10.811	-36.762	-55.218	1.00	28.34	L	O
ATOM	4457	CG2	THR	L	69	8.521	-36.271	-54.697	1.00	16.94	L	C
ATOM	4461	C	THR	L	69	11.680	-34.089	-54.462	1.00	22.23	L	C
ATOM	4462	O	THR	L	69	11.935	-33.888	-53.285	1.00	21.49	L	O
ATOM	4464	N	ASP	L	70	12.610	-34.061	-55.416	1.00	25.31	L	N
ATOM	4465	CA	ASP	L	70	14.055	-34.065	-55.134	1.00	23.44	L	C
ATOM	4467	CB	ASP	L	70	14.757	-35.095	-56.017	1.00	29.31	L	C
ATOM	4470	CG	ASP	L	70	14.544	-36.534	-55.591	1.00	27.13	L	C
ATOM	4471	OD1	ASP	L	70	13.617	-36.909	-54.823	1.00	28.62	L	O
ATOM	4472	OD2	ASP	L	70	15.334	-37.327	-56.096	1.00	31.58	L	O
ATOM	4473	C	ASP	L	70	14.707	-32.725	-55.458	1.00	24.18	L	C
ATOM	4474	O	ASP	L	70	14.801	-32.364	-56.622	1.00	24.97	L	O
ATOM	4476	N	PHE	L	71	15.181	-31.995	-54.448	1.00	23.17	L	N
ATOM	4477	CA	PHE	L	71	15.741	-30.653	-54.678	1.00	24.80	L	C
ATOM	4479	CB	PHE	L	71	14.805	-29.594	-54.086	1.00	23.84	L	C
ATOM	4482	CG	PHE	L	71	13.422	-29.639	-54.656	1.00	22.41	L	C
ATOM	4483	CD1	PHE	L	71	13.084	-28.848	-55.749	1.00	27.90	L	C
ATOM	4485	CE1	PHE	L	71	11.825	-28.910	-56.294	1.00	27.80	L	C
ATOM	4487	CZ	PHE	L	71	10.884	-29.768	-55.747	1.00	28.31	L	C

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ATOM	4489	CE2	PHE	L	71	11.208	-30.573	-54.697	1.00	22.97	L	C
ATOM	4491	CD2	PHE	L	71	12.476	-30.501	-54.145	1.00	24.87	L	C
ATOM	4493	C	PHE	L	71	17.176	-30.460	-54.149	1.00	17.22	L	C
ATOM	4494	O	PHE	L	71	17.575	-31.069	-53.171	1.00	22.61	L	O
ATOM	4496	N	THR	L	72	17.923	-29.592	-54.816	1.00	22.55	L	N
ATOM	4497	CA	THR	L	72	19.340	-29.347	-54.526	1.00	27.48	L	C
ATOM	4499	CB	THR	L	72	20.236	-29.980	-55.638	1.00	28.08	L	C
ATOM	4501	OG1	THR	L	72	19.871	-31.354	-55.789	1.00	33.64	L	O
ATOM	4503	CG2	THR	L	72	21.731	-29.908	-55.313	1.00	27.74	L	C
ATOM	4507	C	THR	L	72	19.581	-27.837	-54.421	1.00	26.21	L	C
ATOM	4508	O	THR	L	72	19.054	-27.066	-55.225	1.00	27.18	L	O
ATOM	4510	N	LEU	L	73	20.346	-27.431	-53.410	1.00	27.45	L	N
ATOM	4511	CA	LEU	L	73	21.026	-26.126	-53.384	1.00	28.71	L	C
ATOM	4513	CB	LEU	L	73	20.796	-25.399	-52.060	1.00	29.97	L	C
ATOM	4516	CG	LEU	L	73	21.533	-24.079	-51.824	1.00	29.03	L	C
ATOM	4518	CD1	LEU	L	73	20.930	-22.892	-52.621	1.00	26.07	L	C
ATOM	4522	CD2	LEU	L	73	21.495	-23.805	-50.344	1.00	28.64	L	C
ATOM	4526	C	LEU	L	73	22.528	-26.331	-53.620	1.00	30.11	L	C
ATOM	4527	O	LEU	L	73	23.169	-27.168	-52.987	1.00	35.54	L	O
ATOM	4529	N	THR	L	74	23.072	-25.557	-54.547	1.00	29.24	L	N
ATOM	4530	CA	THR	L	74	24.477	-25.605	-54.906	1.00	30.11	L	C
ATOM	4532	CB	THR	L	74	24.655	-25.967	-56.398	1.00	30.17	L	C
ATOM	4534	OG1	THR	L	74	24.022	-27.220	-56.674	1.00	28.59	L	O
ATOM	4536	CG2	THR	L	74	26.155	-26.064	-56.783	1.00	28.72	L	C
ATOM	4540	C	THR	L	74	25.065	-24.223	-54.627	1.00	31.00	L	C
ATOM	4541	O	THR	L	74	24.691	-23.265	-55.284	1.00	32.34	L	O
ATOM	4543	N	ILE	L	75	25.944	-24.104	-53.629	1.00	30.28	L	N
ATOM	4544	CA	ILE	L	75	26.796	-22.915	-53.505	1.00	31.22	L	C
ATOM	4546	CB	ILE	L	75	27.199	-22.546	-52.066	1.00	25.59	L	C
ATOM	4548	CG1	ILE	L	75	26.014	-22.578	-51.106	1.00	27.18	L	C
ATOM	4551	CD1	ILE	L	75	26.445	-22.429	-49.658	1.00	23.10	L	C
ATOM	4555	CG2	ILE	L	75	27.871	-21.167	-52.071	1.00	21.88	L	C
ATOM	4559	C	ILE	L	75	28.073	-23.235	-54.252	1.00	25.24	L	C
ATOM	4560	O	ILE	L	75	28.889	-24.047	-53.792	1.00	30.52	L	O
ATOM	4562	N	SER	L	76	28.267	-22.599	-55.392	1.00	34.57	L	N
ATOM	4563	CA	SER	L	76	29.244	-23.102	-56.354	1.00	36.92	L	C
ATOM	4565	CB	SER	L	76	28.832	-22.716	-57.767	1.00	43.47	L	C
ATOM	4568	OG	SER	L	76	29.581	-23.457	-58.709	1.00	50.61	L	O
ATOM	4570	C	SER	L	76	30.689	-22.686	-56.130	1.00	41.87	L	C
ATOM	4571	O	SER	L	76	31.612	-23.344	-56.636	1.00	54.07	L	O
ATOM	4573	N	SER	L	77	30.928	-21.601	-55.412	1.00	40.23	L	N
ATOM	4574	CA	SER	L	77	32.314	-21.197	-55.217	1.00	36.15	L	C
ATOM	4576	CB	SER	L	77	32.712	-20.230	-56.324	1.00	42.00	L	C
ATOM	4579	OG	SER	L	77	34.107	-20.077	-56.375	1.00	43.96	L	O
ATOM	4581	C	SER	L	77	32.466	-20.591	-53.841	1.00	33.65	L	C
ATOM	4582	O	SER	L	77	32.514	-19.365	-53.694	1.00	39.60	L	O
ATOM	4584	N	LEU	L	78	32.552	-21.478	-52.841	1.00	24.50	L	N
ATOM	4585	CA	LEU	L	78	32.206	-21.146	-51.458	1.00	25.00	L	C
ATOM	4587	CB	LEU	L	78	32.273	-22.391	-50.573	1.00	22.30	L	C
ATOM	4590	CG	LEU	L	78	31.810	-22.220	-49.121	1.00	22.91	L	C
ATOM	4592	CD1	LEU	L	78	30.308	-21.885	-49.060	1.00	22.42	L	C
ATOM	4596	CD2	LEU	L	78	32.129	-23.457	-48.291	1.00	22.89	L	C
ATOM	4600	C	LEU	L	78	33.116	-20.063	-50.913	1.00	28.19	L	C
ATOM	4601	O	LEU	L	78	34.333	-20.131	-51.064	1.00	35.35	L	O
ATOM	4603	N	GLN	L	79	32.515	-19.037	-50.325	1.00	27.53	L	N
ATOM	4604	CA	GLN	L	79	33.243	-17.905	-49.800	1.00	26.14	L	C
ATOM	4606	CB	GLN	L	79	32.663	-16.615	-50.384	1.00	28.06	L	C
ATOM	4609	CG	GLN	L	79	32.879	-16.471	-51.876	1.00	28.35	L	C
ATOM	4612	CD	GLN	L	79	34.337	-16.528	-52.220	1.00	27.68	L	C
ATOM	4613	OE1	GLN	L	79	35.126	-15.745	-51.700	1.00	26.91	L	O
ATOM	4614	NE2	GLN	L	79	34.719	-17.482	-53.068	1.00	24.25	L	N
ATOM	4617	C	GLN	L	79	33.162	-17.891	-48.277	1.00	29.05	L	C
ATOM	4618	O	GLN	L	79	32.262	-18.496	-47.696	1.00	30.68	L	O
ATOM	4620	N	PRO	L	80	34.122	-17.229	-47.617	1.00	30.26	L	N
ATOM	4621	CA	PRO	L	80	34.111	-17.189	-46.157	1.00	29.87	L	C
ATOM	4623	CB	PRO	L	80	35.171	-16.134	-45.821	1.00	26.81	L	C
ATOM	4626	CG	PRO	L	80	36.113	-16.205	-46.928	1.00	29.99	L	C
ATOM	4629	CD	PRO	L	80	35.288	-16.513	-48.163	1.00	28.60	L	C

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ATOM	4632	C	PRO	L	80	32.791	-16.761	-45.574	1.00	31.54	L	C
ATOM	4633	O	PRO	L	80	32.387	-17.290	-44.550	1.00	28.23	L	O
ATOM	4634	N	GLU	L	81	32.152	-15.786	-46.224	1.00	34.23	L	N
ATOM	4635	CA	GLU	L	81	30.927	-15.161	-45.726	1.00	31.10	L	C
ATOM	4637	CB	GLU	L	81	30.699	-13.793	-46.401	1.00	35.25	L	C
ATOM	4640	CG	GLU	L	81	30.471	-13.822	-47.925	1.00	41.26	L	C
ATOM	4643	CD	GLU	L	81	31.736	-13.539	-48.758	1.00	48.81	L	C
ATOM	4644	OE1	GLU	L	81	32.877	-13.879	-48.316	1.00	46.11	L	O
ATOM	4645	OE2	GLU	L	81	31.574	-12.971	-49.868	1.00	50.23	L	O
ATOM	4646	C	GLU	L	81	29.670	-16.005	-45.876	1.00	30.04	L	C
ATOM	4647	O	GLU	L	81	28.613	-15.581	-45.428	1.00	30.78	L	O
ATOM	4649	N	ASP	L	82	29.786	-17.180	-46.505	1.00	29.44	L	N
ATOM	4650	CA	ASP	L	82	28.675	-18.126	-46.677	1.00	25.79	L	C
ATOM	4652	CB	ASP	L	82	28.875	-18.998	-47.930	1.00	23.56	L	C
ATOM	4655	CG	ASP	L	82	28.988	-18.187	-49.215	1.00	26.90	L	C
ATOM	4656	OD1	ASP	L	82	28.553	-17.021	-49.208	1.00	21.54	L	O
ATOM	4657	OD2	ASP	L	82	29.517	-18.714	-50.236	1.00	23.70	L	O
ATOM	4658	C	ASP	L	82	28.474	-19.049	-45.470	1.00	24.57	L	C
ATOM	4659	O	ASP	L	82	27.581	-19.884	-45.480	1.00	27.04	L	O
ATOM	4661	N	VAL	L	83	29.296	-18.916	-44.435	1.00	27.35	L	N
ATOM	4662	CA	VAL	L	83	29.106	-19.707	-43.226	1.00	27.74	L	C
ATOM	4664	CB	VAL	L	83	30.203	-19.415	-42.182	1.00	32.22	L	C
ATOM	4666	CG1	VAL	L	83	29.820	-19.926	-40.798	1.00	27.26	L	C
ATOM	4670	CG2	VAL	L	83	31.496	-20.057	-42.641	1.00	33.24	L	C
ATOM	4674	C	VAL	L	83	27.722	-19.398	-42.683	1.00	26.93	L	C
ATOM	4675	O	VAL	L	83	27.407	-18.246	-42.412	1.00	32.44	L	O
ATOM	4677	N	ALA	L	84	26.893	-20.436	-42.575	1.00	23.63	L	N
ATOM	4678	CA	ALA	L	84	25.511	-20.313	-42.099	1.00	24.43	L	C
ATOM	4680	CB	ALA	L	84	24.689	-19.491	-43.076	1.00	23.14	L	C
ATOM	4684	C	ALA	L	84	24.916	-21.702	-41.980	1.00	21.75	L	C
ATOM	4685	O	ALA	L	84	25.561	-22.685	-42.324	1.00	26.64	L	O
ATOM	4687	N	THR	L	85	23.680	-21.775	-41.487	1.00	25.41	L	N
ATOM	4688	CA	THR	L	85	22.853	-22.969	-41.586	1.00	21.03	L	C
ATOM	4690	CB	THR	L	85	22.156	-23.259	-40.215	1.00	23.99	L	C
ATOM	4692	OG1	THR	L	85	23.161	-23.385	-39.208	1.00	21.81	L	O
ATOM	4694	CG2	THR	L	85	21.325	-24.566	-40.249	1.00	19.42	L	C
ATOM	4698	C	THR	L	85	21.853	-22.668	-42.702	1.00	23.60	L	C
ATOM	4699	O	THR	L	85	21.215	-21.615	-42.676	1.00	15.27	L	O
ATOM	4701	N	TYR	L	86	21.794	-23.533	-43.728	1.00	24.17	L	N
ATOM	4702	CA	TYR	L	86	20.835	-23.406	-44.828	1.00	21.47	L	C
ATOM	4704	CB	TYR	L	86	21.484	-23.703	-46.189	1.00	22.59	L	C
ATOM	4707	CG	TYR	L	86	22.579	-22.738	-46.468	1.00	21.53	L	C
ATOM	4708	CD1	TYR	L	86	22.337	-21.574	-47.186	1.00	23.29	L	C
ATOM	4710	CE1	TYR	L	86	23.353	-20.645	-47.406	1.00	25.30	L	C
ATOM	4712	CZ	TYR	L	86	24.626	-20.883	-46.895	1.00	24.87	L	C
ATOM	4713	OH	TYR	L	86	25.628	-19.967	-47.102	1.00	26.31	L	O
ATOM	4715	CE2	TYR	L	86	24.874	-22.012	-46.148	1.00	21.74	L	C
ATOM	4717	CD2	TYR	L	86	23.856	-22.946	-45.958	1.00	21.76	L	C
ATOM	4719	C	TYR	L	86	19.606	-24.295	-44.616	1.00	20.27	L	C
ATOM	4720	O	TYR	L	86	19.735	-25.436	-44.196	1.00	20.94	L	O
ATOM	4722	N	TYR	L	87	18.424	-23.739	-44.897	1.00	23.56	L	N
ATOM	4723	CA	TYR	L	87	17.139	-24.444	-44.758	1.00	19.01	L	C
ATOM	4725	CB	TYR	L	87	16.279	-23.818	-43.675	1.00	21.93	L	C
ATOM	4728	CG	TYR	L	87	16.903	-23.785	-42.307	1.00	20.93	L	C
ATOM	4729	CD1	TYR	L	87	16.673	-24.793	-41.388	1.00	19.04	L	C
ATOM	4731	CE1	TYR	L	87	17.250	-24.743	-40.124	1.00	24.45	L	C
ATOM	4733	CZ	TYR	L	87	18.063	-23.677	-39.785	1.00	21.60	L	C
ATOM	4734	OH	TYR	L	87	18.631	-23.602	-38.531	1.00	23.99	L	O
ATOM	4736	CE2	TYR	L	87	18.289	-22.666	-40.683	1.00	16.99	L	C
ATOM	4738	CD2	TYR	L	87	17.719	-22.723	-41.928	1.00	21.05	L	C
ATOM	4740	C	TYR	L	87	16.357	-24.417	-46.057	1.00	20.23	L	C
ATOM	4741	O	TYR	L	87	16.213	-23.364	-46.670	1.00	23.11	L	O
ATOM	4743	N	CYS	L	88	15.862	-25.574	-46.496	1.00	23.95	L	N
ATOM	4744	CA	CYS	L	88	14.891	-25.592	-47.604	1.00	25.00	L	C
ATOM	4746	CB	CYS	L	88	14.879	-26.910	-48.351	1.00	27.66	L	C
ATOM	4749	SG	CYS	L	88	14.494	-28.421	-47.396	1.00	30.09	L	S
ATOM	4751	C	CYS	L	88	13.526	-25.372	-46.992	1.00	21.79	L	C
ATOM	4752	O	CYS	L	88	13.344	-25.610	-45.801	1.00	17.37	L	O

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ATOM	4754	N	LEU	L	89	12.579	-24.894	-47.791	1.00	23.22	L	N
ATOM	4755	CA	LEU	L	89	11.170	-24.803	-47.341	1.00	20.80	L	C
ATOM	4757	CB	LEU	L	89	10.827	-23.396	-46.837	1.00	20.57	L	C
ATOM	4760	CG	LEU	L	89	9.342	-23.146	-46.470	1.00	18.93	L	C
ATOM	4762	CD1	LEU	L	89	9.163	-23.007	-44.979	1.00	18.18	L	C
ATOM	4766	CD2	LEU	L	89	8.792	-21.925	-47.217	1.00	17.36	L	C
ATOM	4770	C	LEU	L	89	10.249	-25.167	-48.492	1.00	19.93	L	C
ATOM	4771	O	LEU	L	89	10.400	-24.658	-49.603	1.00	18.43	L	O
ATOM	4773	N	GLN	L	90	9.292	-26.050	-48.214	1.00	20.22	L	N
ATOM	4774	CA	GLN	L	90	8.326	-26.456	-49.212	1.00	23.91	L	C
ATOM	4776	CB	GLN	L	90	7.775	-27.883	-48.951	1.00	21.99	L	C
ATOM	4779	CG	GLN	L	90	6.267	-28.041	-49.324	1.00	25.60	L	C
ATOM	4782	CD	GLN	L	90	5.358	-27.873	-48.171	1.00	30.23	L	C
ATOM	4783	OE1	GLN	L	90	5.706	-28.204	-47.058	1.00	36.99	L	O
ATOM	4784	NE2	GLN	L	90	4.167	-27.412	-48.427	1.00	40.71	L	N
ATOM	4787	C	GLN	L	90	7.219	-25.437	-49.168	1.00	19.47	L	C
ATOM	4788	O	GLN	L	90	6.689	-25.147	-48.087	1.00	17.07	L	O
ATOM	4790	N	SER	L	91	6.825	-24.930	-50.345	1.00	23.64	L	N
ATOM	4791	CA	SER	L	91	5.670	-24.042	-50.408	1.00	25.08	L	C
ATOM	4793	CB	SER	L	91	6.134	-22.579	-50.477	1.00	22.90	L	C
ATOM	4796	OG	SER	L	91	6.537	-22.208	-51.759	1.00	15.46	L	O
ATOM	4798	C	SER	L	91	4.587	-24.410	-51.461	1.00	25.06	L	C
ATOM	4799	O	SER	L	91	3.944	-23.549	-52.047	1.00	26.38	L	O
ATOM	4801	N	ASP	L	92	4.335	-25.706	-51.598	1.00	25.61	L	N
ATOM	4802	CA	ASP	L	92	3.308	-26.249	-52.478	1.00	24.49	L	C
ATOM	4804	CB	ASP	L	92	3.499	-27.778	-52.549	1.00	23.52	L	C
ATOM	4807	CG	ASP	L	92	2.297	-28.496	-53.109	1.00	27.32	L	C
ATOM	4808	OD1	ASP	L	92	2.246	-28.712	-54.337	1.00	25.72	L	O
ATOM	4809	OD2	ASP	L	92	1.393	-28.816	-52.309	1.00	21.92	L	O
ATOM	4810	C	ASP	L	92	1.862	-25.922	-52.022	1.00	26.36	L	C
ATOM	4811	O	ASP	L	92	0.942	-25.737	-52.819	1.00	23.83	L	O
ATOM	4813	N	SER	L	93	1.676	-25.869	-50.722	1.00	25.09	L	N
ATOM	4814	CA	SER	L	93	0.370	-25.729	-50.151	1.00	19.22	L	C
ATOM	4816	CB	SER	L	93	-0.448	-26.996	-50.399	1.00	15.50	L	C
ATOM	4819	OG	SER	L	93	0.253	-28.204	-50.054	1.00	13.07	L	O
ATOM	4821	C	SER	L	93	0.622	-25.528	-48.669	1.00	23.85	L	C
ATOM	4822	O	SER	L	93	1.726	-25.816	-48.173	1.00	25.31	L	O
ATOM	4824	N	LEU	L	94	-0.385	-25.039	-47.969	1.00	22.99	L	N
ATOM	4825	CA	LEU	L	94	-0.290	-24.815	-46.538	1.00	20.48	L	C
ATOM	4827	CB	LEU	L	94	-1.277	-23.739	-46.106	1.00	21.67	L	C
ATOM	4830	CG	LEU	L	94	-1.175	-22.301	-46.616	1.00	18.21	L	C
ATOM	4832	CD1	LEU	L	94	-2.473	-21.569	-46.210	1.00	18.76	L	C
ATOM	4836	CD2	LEU	L	94	0.062	-21.568	-46.074	1.00	12.37	L	C
ATOM	4840	C	LEU	L	94	-0.603	-26.093	-45.770	1.00	21.17	L	C
ATOM	4841	O	LEU	L	94	-1.536	-26.804	-46.113	1.00	26.26	L	O
ATOM	4843	N	PRO	L	95	0.127	-26.365	-44.680	1.00	21.53	L	N
ATOM	4844	CA	PRO	L	95	1.184	-25.560	-44.119	1.00	19.46	L	C
ATOM	4846	CB	PRO	L	95	1.240	-26.047	-42.678	1.00	23.51	L	C
ATOM	4849	CG	PRO	L	95	0.888	-27.469	-42.771	1.00	23.20	L	C
ATOM	4852	CD	PRO	L	95	-0.100	-27.582	-43.880	1.00	22.93	L	C
ATOM	4855	C	PRO	L	95	2.514	-25.805	-44.835	1.00	18.19	L	C
ATOM	4856	O	PRO	L	95	2.767	-26.910	-45.313	1.00	22.86	L	O
ATOM	4857	N	TYR	L	96	3.340	-24.766	-44.918	1.00	16.10	L	N
ATOM	4858	CA	TYR	L	96	4.697	-24.906	-45.420	1.00	21.13	L	C
ATOM	4860	CB	TYR	L	96	5.360	-23.545	-45.684	1.00	15.78	L	C
ATOM	4863	CG	TYR	L	96	4.678	-22.611	-46.654	1.00	11.35	L	C
ATOM	4864	CD1	TYR	L	96	3.664	-23.033	-47.494	1.00	13.34	L	C
ATOM	4866	CE1	TYR	L	96	3.069	-22.164	-48.359	1.00	14.62	L	C
ATOM	4868	CZ	TYR	L	96	3.485	-20.843	-48.419	1.00	15.70	L	C
ATOM	4869	OH	TYR	L	96	2.891	-19.960	-49.305	1.00	15.51	L	O
ATOM	4871	CE2	TYR	L	96	4.507	-20.403	-47.599	1.00	12.39	L	C
ATOM	4873	CD2	TYR	L	96	5.081	-21.273	-46.731	1.00	13.42	L	C
ATOM	4875	C	TYR	L	96	5.549	-25.704	-44.421	1.00	16.48	L	C
ATOM	4876	O	TYR	L	96	5.167	-25.940	-43.277	1.00	20.41	L	O
ATOM	4878	N	THR	L	97	6.720	-26.115	-44.869	1.00	22.03	L	N
ATOM	4879	CA	THR	L	97	7.535	-27.059	-44.116	1.00	20.39	L	C
ATOM	4881	CB	THR	L	97	7.147	-28.506	-44.492	1.00	17.47	L	C
ATOM	4883	OG1	THR	L	97	5.710	-28.624	-44.513	1.00	17.34	L	O

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ATOM	4885	CG2	THR	L	97	7.737	-29.498	-43.525	1.00	14.07	L	C
ATOM	4889	C	THR	L	97	9.012	-26.812	-44.420	1.00	24.61	L	C
ATOM	4890	O	THR	L	97	9.431	-26.867	-45.573	1.00	19.22	L	O
ATOM	4892	N	PHE	L	98	9.777	-26.527	-43.366	1.00	26.06	L	N
ATOM	4893	CA	PHE	L	98	11.219	-26.310	-43.456	1.00	25.08	L	C
ATOM	4895	CB	PHE	L	98	11.696	-25.473	-42.229	1.00	22.13	L	C
ATOM	4898	CG	PHE	L	98	11.561	-23.987	-42.401	1.00	20.61	L	C
ATOM	4899	CD1	PHE	L	98	12.375	-23.306	-43.306	1.00	18.98	L	C
ATOM	4901	CE1	PHE	L	98	12.257	-21.933	-43.474	1.00	21.34	L	C
ATOM	4903	CZ	PHE	L	98	11.323	-21.223	-42.711	1.00	24.27	L	C
ATOM	4905	CE2	PHE	L	98	10.519	-21.895	-41.801	1.00	17.37	L	C
ATOM	4907	CD2	PHE	L	98	10.645	-23.262	-41.650	1.00	17.21	L	C
ATOM	4909	C	PHE	L	98	11.957	-27.647	-43.462	1.00	22.27	L	C
ATOM	4910	O	PHE	L	98	11.534	-28.607	-42.830	1.00	20.00	L	O
ATOM	4912	N	GLY	L	99	13.085	-27.710	-44.154	1.00	29.73	L	N
ATOM	4913	CA	GLY	L	99	14.056	-28.751	-43.874	1.00	24.02	L	C
ATOM	4916	C	GLY	L	99	14.630	-28.647	-42.460	1.00	25.54	L	C
ATOM	4917	O	GLY	L	99	14.463	-27.632	-41.747	1.00	24.47	L	O
ATOM	4919	N	GLN	L	100	15.355	-29.689	-42.071	1.00	26.67	L	N
ATOM	4920	CA	GLN	L	100	15.973	-29.758	-40.750	1.00	22.86	L	C
ATOM	4922	CB	GLN	L	100	16.353	-31.187	-40.395	1.00	21.01	L	C
ATOM	4925	CG	GLN	L	100	15.206	-32.163	-40.385	1.00	20.47	L	C
ATOM	4928	CD	GLN	L	100	14.817	-32.697	-41.766	1.00	27.97	L	C
ATOM	4929	OE1	GLN	L	100	15.419	-32.362	-42.813	1.00	23.15	L	O
ATOM	4930	NE2	GLN	L	100	13.807	-33.544	-41.772	1.00	35.92	L	N
ATOM	4933	C	GLN	L	100	17.214	-28.887	-40.624	1.00	20.93	L	C
ATOM	4934	O	GLN	L	100	17.659	-28.627	-39.509	1.00	22.08	L	O
ATOM	4936	N	GLY	L	101	17.758	-28.426	-41.751	1.00	22.71	L	N
ATOM	4937	CA	GLY	L	101	18.910	-27.536	-41.740	1.00	24.60	L	C
ATOM	4940	C	GLY	L	101	20.200	-28.246	-42.101	1.00	26.13	L	C
ATOM	4941	O	GLY	L	101	20.359	-29.428	-41.841	1.00	29.65	L	O
ATOM	4943	N	THR	L	102	21.107	-27.512	-42.730	1.00	26.36	L	N
ATOM	4944	CA	THR	L	102	22.457	-27.981	-42.989	1.00	26.55	L	C
ATOM	4946	CB	THR	L	102	22.739	-28.249	-44.467	1.00	23.82	L	C
ATOM	4948	OG1	THR	L	102	21.825	-29.229	-44.975	1.00	25.68	L	O
ATOM	4950	CG2	THR	L	102	24.186	-28.736	-44.625	1.00	22.53	L	C
ATOM	4954	C	THR	L	102	23.435	-26.896	-42.556	1.00	23.62	L	C
ATOM	4955	O	THR	L	102	23.494	-25.851	-43.172	1.00	21.90	L	O
ATOM	4957	N	LYS	L	103	24.221	-27.190	-41.531	1.00	21.31	L	N
ATOM	4958	CA	LYS	L	103	25.229	-26.283	-41.029	1.00	25.59	L	C
ATOM	4960	CB	LYS	L	103	25.641	-26.707	-39.623	1.00	25.58	L	C
ATOM	4963	CG	LYS	L	103	26.339	-25.629	-38.818	1.00	26.60	L	C
ATOM	4966	CD	LYS	L	103	27.012	-26.211	-37.606	1.00	28.54	L	C
ATOM	4969	CE	LYS	L	103	27.748	-25.150	-36.762	1.00	33.51	L	C
ATOM	4972	NZ	LYS	L	103	26.813	-24.170	-36.109	1.00	38.27	L	N
ATOM	4976	C	LYS	L	103	26.413	-26.321	-41.986	1.00	25.33	L	C
ATOM	4977	O	LYS	L	103	26.975	-27.381	-42.257	1.00	24.17	L	O
ATOM	4979	N	VAL	L	104	26.762	-25.176	-42.552	1.00	28.43	L	N
ATOM	4980	CA	VAL	L	104	27.904	-25.118	-43.455	1.00	24.98	L	C
ATOM	4982	CB	VAL	L	104	27.536	-24.423	-44.767	1.00	21.05	L	C
ATOM	4984	CG1	VAL	L	104	28.769	-24.286	-45.694	1.00	20.66	L	C
ATOM	4988	CG2	VAL	L	104	26.422	-25.181	-45.431	1.00	13.60	L	C
ATOM	4992	C	VAL	L	104	29.036	-24.397	-42.741	1.00	33.08	L	C
ATOM	4993	O	VAL	L	104	28.844	-23.304	-42.194	1.00	28.61	L	O
ATOM	4995	N	GLU	L	105	30.209	-25.033	-42.721	1.00	33.88	L	N
ATOM	4996	CA	GLU	L	105	31.397	-24.457	-42.117	1.00	31.05	L	C
ATOM	4998	CB	GLU	L	105	31.745	-25.192	-40.813	1.00	34.83	L	C
ATOM	5001	CG	GLU	L	105	31.069	-24.521	-39.580	1.00	41.04	L	C
ATOM	5004	CD	GLU	L	105	31.110	-25.338	-38.288	1.00	39.98	L	C
ATOM	5005	OE1	GLU	L	105	30.890	-26.575	-38.328	1.00	42.49	L	O
ATOM	5006	OE2	GLU	L	105	31.340	-24.715	-37.224	1.00	40.83	L	O
ATOM	5007	C	GLU	L	105	32.539	-24.437	-43.133	1.00	27.77	L	C
ATOM	5008	O	GLU	L	105	32.572	-25.249	-44.061	1.00	23.32	L	O
ATOM	5010	N	ILE	L	106	33.422	-23.446	-43.021	1.00	32.10	L	N
ATOM	5011	CA	ILE	L	106	34.573	-23.352	-43.921	1.00	33.37	L	C
ATOM	5013	CB	ILE	L	106	35.003	-21.900	-44.232	1.00	35.53	L	C
ATOM	5015	CG1	ILE	L	106	34.126	-21.295	-45.324	1.00	37.32	L	C
ATOM	5018	CD1	ILE	L	106	32.684	-21.139	-44.935	1.00	40.30	L	C

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ATOM	5022	CG2	ILE	L	106	36.446	-21.860	-44.740	1.00	31.85	L	C
ATOM	5026	C	ILE	L	106	35.750	-24.086	-43.307	1.00	33.88	L	C
ATOM	5027	O	ILE	L	106	36.030	-23.921	-42.114	1.00	34.44	L	O
ATOM	5029	N	LYS	L	107	36.414	-24.892	-44.132	1.00	34.53	L	N
ATOM	5030	CA	LYS	L	107	37.673	-25.538	-43.785	1.00	36.55	L	C
ATOM	5032	CB	LYS	L	107	37.767	-26.919	-44.423	1.00	39.43	L	C
ATOM	5035	CG	LYS	L	107	38.967	-27.739	-43.979	1.00	40.06	L	C
ATOM	5038	CD	LYS	L	107	39.395	-28.722	-45.055	1.00	40.37	L	C
ATOM	5041	CE	LYS	L	107	40.760	-29.291	-44.764	1.00	42.50	L	C
ATOM	5044	NZ	LYS	L	107	40.725	-30.003	-43.464	1.00	40.70	L	N
ATOM	5048	C	LYS	L	107	38.842	-24.671	-44.249	1.00	35.86	L	C
ATOM	5049	O	LYS	L	107	38.970	-24.336	-45.428	1.00	26.08	L	O
ATOM	5051	N	ARG	L	108	39.711	-24.371	-43.290	1.00	37.76	L	N
ATOM	5052	CA	ARG	L	108	40.700	-23.314	-43.368	1.00	37.49	L	C
ATOM	5054	CB	ARG	L	108	40.206	-22.256	-42.388	1.00	40.73	L	C
ATOM	5057	CG	ARG	L	108	40.968	-20.994	-42.299	1.00	45.09	L	C
ATOM	5060	CD	ARG	L	108	41.092	-20.559	-40.864	1.00	43.58	L	C
ATOM	5063	NE	ARG	L	108	41.502	-19.170	-40.808	1.00	46.88	L	N
ATOM	5065	CZ	ARG	L	108	42.743	-18.725	-40.978	1.00	46.41	L	C
ATOM	5066	NH1	ARG	L	108	43.764	-19.550	-41.180	1.00	46.86	L	N
ATOM	5069	NH2	ARG	L	108	42.960	-17.421	-40.923	1.00	50.11	L	N
ATOM	5072	C	ARG	L	108	42.082	-23.900	-42.957	1.00	36.21	L	C
ATOM	5073	O	ARG	L	108	42.159	-25.041	-42.456	1.00	33.63	L	O
ATOM	5075	N	THR	L	109	43.171	-23.160	-43.176	1.00	31.25	L	N
ATOM	5076	CA	THR	L	109	44.459	-23.553	-42.604	1.00	32.62	L	C
ATOM	5078	CB	THR	L	109	45.645	-22.747	-43.189	1.00	35.14	L	C
ATOM	5080	OG1	THR	L	109	45.417	-21.342	-43.042	1.00	34.81	L	O
ATOM	5082	CG2	THR	L	109	45.820	-23.066	-44.671	1.00	32.20	L	C
ATOM	5086	C	THR	L	109	44.420	-23.435	-41.077	1.00	29.12	L	C
ATOM	5087	O	THR	L	109	43.619	-22.702	-40.517	1.00	26.55	L	O
ATOM	5089	N	VAL	L	110	45.255	-24.211	-40.405	1.00	33.31	L	N
ATOM	5090	CA	VAL	L	110	45.354	-24.162	-38.947	1.00	34.24	L	C
ATOM	5092	CB	VAL	L	110	46.339	-25.234	-38.429	1.00	33.83	L	C
ATOM	5094	CG1	VAL	L	110	45.858	-26.645	-38.858	1.00	31.60	L	C
ATOM	5098	CG2	VAL	L	110	46.528	-25.143	-36.910	1.00	32.46	L	C
ATOM	5102	C	VAL	L	110	45.796	-22.762	-38.517	1.00	38.28	L	C
ATOM	5103	O	VAL	L	110	46.618	-22.134	-39.189	1.00	41.32	L	O
ATOM	5105	N	ALA	L	111	45.214	-22.264	-37.423	1.00	35.55	L	N
ATOM	5106	CA	ALA	L	111	45.585	-20.967	-36.856	1.00	32.46	L	C
ATOM	5108	CB	ALA	L	111	44.602	-19.869	-37.280	1.00	29.38	L	C
ATOM	5112	C	ALA	L	111	45.601	-21.099	-35.344	1.00	35.67	L	C
ATOM	5113	O	ALA	L	111	44.588	-21.450	-34.742	1.00	33.80	L	O
ATOM	5115	N	ALA	L	112	46.763	-20.827	-34.747	1.00	37.38	L	N
ATOM	5116	CA	ALA	L	112	46.935	-20.854	-33.298	1.00	33.98	L	C
ATOM	5118	CB	ALA	L	112	48.410	-20.779	-32.949	1.00	35.33	L	C
ATOM	5122	C	ALA	L	112	46.188	-19.691	-32.655	1.00	33.67	L	C
ATOM	5123	O	ALA	L	112	46.151	-18.596	-33.219	1.00	31.87	L	O
ATOM	5125	N	PRO	L	113	45.585	-19.924	-31.473	1.00	36.10	L	N
ATOM	5126	CA	PRO	L	113	44.897	-18.859	-30.735	1.00	35.72	L	C
ATOM	5128	CB	PRO	L	113	44.075	-19.628	-29.695	1.00	35.75	L	C
ATOM	5131	CG	PRO	L	113	44.822	-20.870	-29.473	1.00	35.36	L	C
ATOM	5134	CD	PRO	L	113	45.498	-21.217	-30.771	1.00	35.21	L	C
ATOM	5137	C	PRO	L	113	45.837	-17.888	-30.026	1.00	36.75	L	C
ATOM	5138	O	PRO	L	113	46.875	-18.295	-29.502	1.00	39.60	L	O
ATOM	5139	N	SER	L	114	45.468	-16.611	-30.012	1.00	34.02	L	N
ATOM	5140	CA	SER	L	114	46.127	-15.652	-29.154	1.00	32.66	L	C
ATOM	5142	CB	SER	L	114	45.929	-14.232	-29.662	1.00	32.42	L	C
ATOM	5145	OG	SER	L	114	46.299	-14.140	-31.016	1.00	34.32	L	O
ATOM	5147	C	SER	L	114	45.462	-15.803	-27.813	1.00	32.10	L	C
ATOM	5148	O	SER	L	114	44.235	-15.732	-27.727	1.00	32.06	L	O
ATOM	5150	N	VAL	L	115	46.256	-16.003	-26.768	1.00	31.87	L	N
ATOM	5151	CA	VAL	L	115	45.704	-16.172	-25.433	1.00	32.60	L	C
ATOM	5153	CB	VAL	L	115	46.262	-17.434	-24.732	1.00	30.38	L	C
ATOM	5155	CG1	VAL	L	115	45.335	-17.863	-23.609	1.00	29.53	L	C
ATOM	5159	CG2	VAL	L	115	46.415	-18.574	-25.731	1.00	30.32	L	C
ATOM	5163	C	VAL	L	115	45.944	-14.912	-24.592	1.00	34.21	L	C
ATOM	5164	O	VAL	L	115	47.060	-14.391	-24.521	1.00	35.31	L	O
ATOM	5166	N	PHE	L	116	44.869	-14.407	-23.997	1.00	33.48	L	N

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ATOM	5167	CA	PHE	L	116	44.932	-13.295	-23.068	1.00	33.33	L	C
ATOM	5169	CB	PHE	L	116	44.206	-12.069	-23.635	1.00	33.68	L	C
ATOM	5172	CG	PHE	L	116	44.574	-11.747	-25.065	1.00	36.34	L	C
ATOM	5173	CD1	PHE	L	116	45.657	-10.928	-25.359	1.00	37.25	L	C
ATOM	5175	CE1	PHE	L	116	46.001	-10.634	-26.684	1.00	35.21	L	C
ATOM	5177	CZ	PHE	L	116	45.266	-11.163	-27.711	1.00	32.65	L	C
ATOM	5179	CE2	PHE	L	116	44.187	-11.981	-27.433	1.00	34.11	L	C
ATOM	5181	CD2	PHE	L	116	43.845	-12.271	-26.121	1.00	34.18	L	C
ATOM	5183	C	PHE	L	116	44.272	-13.756	-21.776	1.00	34.21	L	C
ATOM	5184	O	PHE	L	116	43.344	-14.561	-21.801	1.00	33.93	L	O
ATOM	5186	N	ILE	L	117	44.765	-13.262	-20.647	1.00	35.12	L	N
ATOM	5187	CA	ILE	L	117	44.152	-13.553	-19.360	1.00	32.68	L	C
ATOM	5189	CB	ILE	L	117	45.069	-14.439	-18.462	1.00	33.33	L	C
ATOM	5191	CG1	ILE	L	117	44.296	-14.939	-17.239	1.00	30.66	L	C
ATOM	5194	CD1	ILE	L	117	45.062	-15.915	-16.411	1.00	31.12	L	C
ATOM	5198	CG2	ILE	L	117	46.341	-13.694	-18.051	1.00	34.54	L	C
ATOM	5202	C	ILE	L	117	43.771	-12.237	-18.693	1.00	31.48	L	C
ATOM	5203	O	ILE	L	117	44.457	-11.225	-18.856	1.00	30.97	L	O
ATOM	5205	N	PHE	L	118	42.643	-12.253	-17.987	1.00	31.51	L	N
ATOM	5206	CA	PHE	L	118	42.112	-11.076	-17.320	1.00	31.01	L	C
ATOM	5208	CB	PHE	L	118	40.816	-10.588	-17.978	1.00	31.07	L	C
ATOM	5211	CG	PHE	L	118	40.965	-10.193	-19.421	1.00	32.20	L	C
ATOM	5212	CD1	PHE	L	118	41.280	-8.887	-19.769	1.00	30.51	L	C
ATOM	5214	CE1	PHE	L	118	41.411	-8.519	-21.105	1.00	31.53	L	C
ATOM	5216	CZ	PHE	L	118	41.225	-9.460	-22.107	1.00	30.93	L	C
ATOM	5218	CE2	PHE	L	118	40.905	-10.766	-21.772	1.00	31.94	L	C
ATOM	5220	CD2	PHE	L	118	40.774	-11.127	-20.438	1.00	31.03	L	C
ATOM	5222	C	PHE	L	118	41.789	-11.456	-15.890	1.00	32.89	L	C
ATOM	5223	O	PHE	L	118	41.017	-12.392	-15.675	1.00	35.18	L	O
ATOM	5225	N	PRO	L	119	42.363	-10.732	-14.911	1.00	29.28	L	N
ATOM	5226	CA	PRO	L	119	41.968	-10.945	-13.527	1.00	29.52	L	C
ATOM	5228	CB	PRO	L	119	43.092	-10.272	-12.722	1.00	30.05	L	C
ATOM	5231	CG	PRO	L	119	43.655	-9.250	-13.610	1.00	30.80	L	C
ATOM	5234	CD	PRO	L	119	43.406	-9.698	-15.037	1.00	29.96	L	C
ATOM	5237	C	PRO	L	119	40.620	-10.303	-13.220	1.00	28.26	L	C
ATOM	5238	O	PRO	L	119	40.119	-9.504	-14.021	1.00	30.99	L	O
ATOM	5239	N	PRO	L	120	40.014	-10.671	-12.083	1.00	23.94	L	N
ATOM	5240	CA	PRO	L	120	38.773	-10.033	-11.686	1.00	28.24	L	C
ATOM	5242	CB	PRO	L	120	38.333	-10.843	-10.463	1.00	24.91	L	C
ATOM	5245	CG	PRO	L	120	39.558	-11.444	-9.949	1.00	26.27	L	C
ATOM	5248	CD	PRO	L	120	40.422	-11.715	-11.132	1.00	23.97	L	C
ATOM	5251	C	PRO	L	120	38.974	-8.562	-11.328	1.00	31.32	L	C
ATOM	5252	O	PRO	L	120	40.056	-8.166	-10.887	1.00	35.50	L	O
ATOM	5253	N	SER	L	121	37.930	-7.768	-11.535	1.00	33.30	L	N
ATOM	5254	CA	SER	L	121	37.959	-6.350	-11.233	1.00	32.60	L	C
ATOM	5256	CB	SER	L	121	36.800	-5.657	-11.937	1.00	33.35	L	C
ATOM	5259	OG	SER	L	121	35.563	-6.081	-11.391	1.00	32.63	L	O
ATOM	5261	C	SER	L	121	37.829	-6.163	-9.729	1.00	34.97	L	C
ATOM	5262	O	SER	L	121	37.104	-6.910	-9.067	1.00	33.63	L	O
ATOM	5264	N	ASP	L	122	38.522	-5.165	-9.186	1.00	37.59	L	N
ATOM	5265	CA	ASP	L	122	38.313	-4.780	-7.792	1.00	36.41	L	C
ATOM	5267	CB	ASP	L	122	39.114	-3.527	-7.440	1.00	41.23	L	C
ATOM	5270	CG	ASP	L	122	40.580	-3.821	-7.217	1.00	45.91	L	C
ATOM	5271	OD1	ASP	L	122	40.906	-4.526	-6.236	1.00	48.01	L	O
ATOM	5272	OD2	ASP	L	122	41.406	-3.339	-8.019	1.00	48.69	L	O
ATOM	5273	C	ASP	L	122	36.824	-4.548	-7.557	1.00	33.78	L	C
ATOM	5274	O	ASP	L	122	36.285	-4.940	-6.528	1.00	27.92	L	O
ATOM	5276	N	GLU	L	123	36.165	-3.939	-8.540	1.00	37.53	L	N
ATOM	5277	CA	GLU	L	123	34.722	-3.712	-8.500	1.00	39.09	L	C
ATOM	5279	CB	GLU	L	123	34.263	-3.119	-9.829	1.00	38.84	L	C
ATOM	5282	CG	GLU	L	123	32.835	-2.630	-9.813	1.00	41.05	L	C
ATOM	5285	CD	GLU	L	123	32.440	-1.975	-11.111	1.00	44.35	L	C
ATOM	5286	OE1	GLU	L	123	33.307	-1.853	-12.009	1.00	47.32	L	O
ATOM	5287	OE2	GLU	L	123	31.257	-1.590	-11.230	1.00	46.36	L	O
ATOM	5288	C	GLU	L	123	33.909	-4.976	-8.194	1.00	38.39	L	C
ATOM	5289	O	GLU	L	123	32.986	-4.950	-7.377	1.00	39.12	L	O
ATOM	5291	N	GLN	L	124	34.257	-6.075	-8.852	1.00	38.73	L	N
ATOM	5292	CA	GLN	L	124	33.556	-7.339	-8.651	1.00	38.46	L	C

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ATOM	5294	CB	GLN	L	124	33.943	-8.338	-9.731	1.00	37.12	L	C
ATOM	5297	CG	GLN	L	124	33.090	-9.590	-9.726	1.00	37.31	L	C
ATOM	5300	CD	GLN	L	124	33.580	-10.631	-10.690	1.00	35.85	L	C
ATOM	5301	OE1	GLN	L	124	34.568	-10.432	-11.401	1.00	31.84	L	O
ATOM	5302	NE2	GLN	L	124	32.891	-11.760	-10.723	1.00	39.61	L	N
ATOM	5305	C	GLN	L	124	33.868	-7.935	-7.285	1.00	37.24	L	C
ATOM	5306	O	GLN	L	124	32.979	-8.459	-6.612	1.00	35.26	L	O
ATOM	5308	N	LEU	L	125	35.138	-7.853	-6.896	1.00	38.97	L	N
ATOM	5309	CA	LEU	L	125	35.612	-8.378	-5.611	1.00	41.13	L	C
ATOM	5311	CB	LEU	L	125	37.129	-8.184	-5.477	1.00	40.21	L	C
ATOM	5314	CG	LEU	L	125	37.969	-8.990	-6.479	1.00	41.05	L	C
ATOM	5316	CD1	LEU	L	125	39.388	-8.455	-6.588	1.00	42.07	L	C
ATOM	5320	CD2	LEU	L	125	37.985	-10.466	-6.112	1.00	41.28	L	C
ATOM	5324	C	LEU	L	125	34.871	-7.764	-4.421	1.00	40.00	L	C
ATOM	5325	O	LEU	L	125	34.648	-8.446	-3.430	1.00	39.35	L	O
ATOM	5327	N	LYS	L	126	34.461	-6.498	-4.537	1.00	43.86	L	N
ATOM	5328	CA	LYS	L	126	33.634	-5.839	-3.507	1.00	49.12	L	C
ATOM	5330	CB	LYS	L	126	33.241	-4.411	-3.924	1.00	52.02	L	C
ATOM	5333	CG	LYS	L	126	34.377	-3.393	-4.060	1.00	52.80	L	C
ATOM	5336	CD	LYS	L	126	33.840	-2.074	-4.661	1.00	52.96	L	C
ATOM	5339	CE	LYS	L	126	34.895	-1.296	-5.453	1.00	52.87	L	C
ATOM	5342	NZ	LYS	L	126	34.305	-0.646	-6.670	1.00	51.35	L	N
ATOM	5346	C	LYS	L	126	32.335	-6.607	-3.198	1.00	51.79	L	C
ATOM	5347	O	LYS	L	126	31.798	-6.495	-2.088	1.00	54.29	L	O
ATOM	5349	N	SER	L	127	31.827	-7.354	-4.182	1.00	48.78	L	N
ATOM	5350	CA	SER	L	127	30.582	-8.117	-4.033	1.00	46.85	L	C
ATOM	5352	CB	SER	L	127	29.758	-8.037	-5.324	1.00	47.95	L	C
ATOM	5355	OG	SER	L	127	28.974	-6.861	-5.321	1.00	47.57	L	O
ATOM	5357	C	SER	L	127	30.785	-9.582	-3.626	1.00	45.16	L	C
ATOM	5358	O	SER	L	127	29.823	-10.349	-3.567	1.00	45.98	L	O
ATOM	5360	N	GLY	L	128	32.027	-9.969	-3.349	1.00	43.56	L	N
ATOM	5361	CA	GLY	L	128	32.311	-11.286	-2.781	1.00	43.85	L	C
ATOM	5364	C	GLY	L	128	32.530	-12.396	-3.790	1.00	42.43	L	C
ATOM	5365	O	GLY	L	128	32.705	-13.559	-3.410	1.00	40.69	L	O
ATOM	5367	N	THR	L	129	32.537	-12.042	-5.071	1.00	42.97	L	N
ATOM	5368	CA	THR	L	129	32.754	-13.005	-6.146	1.00	41.48	L	C
ATOM	5370	CB	THR	L	129	31.480	-13.171	-7.008	1.00	44.66	L	C
ATOM	5372	OG1	THR	L	129	30.706	-11.960	-6.970	1.00	46.80	L	O
ATOM	5374	CG2	THR	L	129	30.625	-14.320	-6.476	1.00	44.99	L	C
ATOM	5378	C	THR	L	129	33.953	-12.584	-7.000	1.00	38.90	L	C
ATOM	5379	O	THR	L	129	34.250	-11.397	-7.127	1.00	37.99	L	O
ATOM	5381	N	ALA	L	130	34.651	-13.569	-7.554	1.00	34.10	L	N
ATOM	5382	CA	ALA	L	130	35.852	-13.327	-8.351	1.00	34.29	L	C
ATOM	5384	CB	ALA	L	130	37.081	-13.666	-7.537	1.00	32.97	L	C
ATOM	5388	C	ALA	L	130	35.832	-14.166	-9.627	1.00	32.52	L	C
ATOM	5389	O	ALA	L	130	35.981	-15.383	-9.556	1.00	33.28	L	O
ATOM	5391	N	SER	L	131	35.655	-13.517	-10.783	1.00	32.80	L	N
ATOM	5392	CA	SER	L	131	35.678	-14.197	-12.090	1.00	28.67	L	C
ATOM	5394	CB	SER	L	131	34.516	-13.724	-12.969	1.00	29.42	L	C
ATOM	5397	OG	SER	L	131	33.260	-14.108	-12.442	1.00	32.08	L	O
ATOM	5399	C	SER	L	131	36.984	-13.914	-12.827	1.00	30.09	L	C
ATOM	5400	O	SER	L	131	37.304	-12.758	-13.084	1.00	32.01	L	O
ATOM	5402	N	VAL	L	132	37.724	-14.969	-13.171	1.00	29.43	L	N
ATOM	5403	CA	VAL	L	132	38.941	-14.855	-13.969	1.00	23.98	L	C
ATOM	5405	CB	VAL	L	132	40.074	-15.739	-13.410	1.00	19.16	L	C
ATOM	5407	CG1	VAL	L	132	41.359	-15.521	-14.202	1.00	15.32	L	C
ATOM	5411	CG2	VAL	L	132	40.303	-15.477	-11.894	1.00	8.18	L	C
ATOM	5415	C	VAL	L	132	38.626	-15.314	-15.390	1.00	26.45	L	C
ATOM	5416	O	VAL	L	132	38.149	-16.430	-15.593	1.00	26.84	L	O
ATOM	5418	N	VAL	L	133	38.879	-14.463	-16.378	1.00	26.93	L	N
ATOM	5419	CA	VAL	L	133	38.563	-14.812	-17.755	1.00	26.98	L	C
ATOM	5421	CB	VAL	L	133	37.728	-13.716	-18.440	1.00	25.98	L	C
ATOM	5423	CG1	VAL	L	133	37.400	-14.104	-19.866	1.00	23.24	L	C
ATOM	5427	CG2	VAL	L	133	36.440	-13.464	-17.653	1.00	26.22	L	C
ATOM	5431	C	VAL	L	133	39.837	-15.133	-18.551	1.00	28.09	L	C
ATOM	5432	O	VAL	L	133	40.837	-14.432	-18.456	1.00	27.16	L	O
ATOM	5434	N	CYS	L	134	39.791	-16.221	-19.310	1.00	30.80	L	N
ATOM	5435	CA	CYS	L	134	40.849	-16.584	-20.245	1.00	32.10	L	C

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ATOM	5437	CB	CYS	L	134	41.373	-17.997	-19.921	1.00	35.55	L C
ATOM	5440	SG	CYS	L	134	42.750	-18.626	-20.943	1.00	35.42	L S
ATOM	5442	C	CYS	L	134	40.243	-16.510	-21.647	1.00	31.78	L C
ATOM	5443	O	CYS	L	134	39.175	-17.067	-21.893	1.00	31.25	L O
ATOM	5445	N	LEU	L	135	40.900	-15.787	-22.552	1.00	30.96	L N
ATOM	5446	CA	LEU	L	135	40.397	-15.604	-23.913	1.00	29.66	L C
ATOM	5448	CB	LEU	L	135	40.260	-14.107	-24.249	1.00	30.58	L C
ATOM	5451	CG	LEU	L	135	40.093	-13.684	-25.726	1.00	27.39	L C
ATOM	5453	CD1	LEU	L	135	38.713	-14.047	-26.252	1.00	24.65	L C
ATOM	5457	CD2	LEU	L	135	40.348	-12.186	-25.888	1.00	25.57	L C
ATOM	5461	C	LEU	L	135	41.334	-16.253	-24.904	1.00	31.10	L C
ATOM	5462	O	LEU	L	135	42.533	-15.981	-24.879	1.00	31.87	L O
ATOM	5464	N	LEU	L	136	40.777	-17.113	-25.761	1.00	30.69	L N
ATOM	5465	CA	LEU	L	136	41.466	-17.652	-26.927	1.00	30.68	L C
ATOM	5467	CB	LEU	L	136	41.264	-19.162	-27.038	1.00	31.92	L C
ATOM	5470	CG	LEU	L	136	41.891	-20.120	-26.032	1.00	29.90	L C
ATOM	5472	CD1	LEU	L	136	41.357	-19.906	-24.647	1.00	27.24	L C
ATOM	5476	CD2	LEU	L	136	41.604	-21.542	-26.521	1.00	28.08	L C
ATOM	5480	C	LEU	L	136	40.859	-17.006	-28.165	1.00	27.05	L C
ATOM	5481	O	LEU	L	136	39.698	-17.228	-28.467	1.00	28.40	L O
ATOM	5483	N	ASN	L	137	41.649	-16.230	-28.890	1.00	26.10	L N
ATOM	5484	CA	ASN	L	137	41.137	-15.428	-29.976	1.00	31.76	L C
ATOM	5486	CB	ASN	L	137	41.567	-13.968	-29.790	1.00	34.39	L C
ATOM	5489	CG	ASN	L	137	40.542	-12.978	-30.316	1.00	40.34	L C
ATOM	5490	OD1	ASN	L	137	39.345	-13.138	-30.104	1.00	45.63	L O
ATOM	5491	ND2	ASN	L	137	41.012	-11.936	-30.987	1.00	44.01	L N
ATOM	5494	C	ASN	L	137	41.610	-15.946	-31.324	1.00	29.12	L C
ATOM	5495	O	ASN	L	137	42.785	-16.239	-31.495	1.00	30.93	L O
ATOM	5497	N	ASN	L	138	40.672	-16.069	-32.261	1.00	31.33	L N
ATOM	5498	CA	ASN	L	138	40.963	-16.334	-33.684	1.00	32.35	L C
ATOM	5500	CB	ASN	L	138	41.600	-15.097	-34.322	1.00	34.92	L C
ATOM	5503	CG	ASN	L	138	40.653	-13.920	-34.324	1.00	40.18	L C
ATOM	5504	OD1	ASN	L	138	39.964	-13.675	-33.333	1.00	41.86	L O
ATOM	5505	ND2	ASN	L	138	40.572	-13.209	-35.453	1.00	46.55	L N
ATOM	5508	C	ASN	L	138	41.752	-17.592	-34.011	1.00	31.07	L C
ATOM	5509	O	ASN	L	138	42.846	-17.538	-34.591	1.00	31.28	L O
ATOM	5511	N	PHE	L	139	41.159	-18.735	-33.682	1.00	34.20	L N
ATOM	5512	CA	PHE	L	139	41.803	-20.023	-33.927	1.00	31.93	L C
ATOM	5514	CB	PHE	L	139	42.160	-20.712	-32.595	1.00	29.86	L C
ATOM	5517	CG	PHE	L	139	40.978	-21.013	-31.711	1.00	25.59	L C
ATOM	5518	CD1	PHE	L	139	40.382	-22.259	-31.734	1.00	27.08	L C
ATOM	5520	CE1	PHE	L	139	39.301	-22.550	-30.925	1.00	27.23	L C
ATOM	5522	CZ	PHE	L	139	38.809	-21.594	-30.069	1.00	29.99	L C
ATOM	5524	CE2	PHE	L	139	39.404	-20.348	-30.026	1.00	29.04	L C
ATOM	5526	CD2	PHE	L	139	40.485	-20.065	-30.841	1.00	30.60	L C
ATOM	5528	C	PHE	L	139	40.993	-20.953	-34.827	1.00	30.16	L C
ATOM	5529	O	PHE	L	139	39.766	-20.924	-34.852	1.00	33.80	L O
ATOM	5531	N	TYR	L	140	41.714	-21.754	-35.598	1.00	34.42	L N
ATOM	5532	CA	TYR	L	140	41.138	-22.860	-36.349	1.00	32.43	L C
ATOM	5534	CB	TYR	L	140	40.916	-22.480	-37.822	1.00	34.39	L C
ATOM	5537	CG	TYR	L	140	40.170	-23.554	-38.564	1.00	33.08	L C
ATOM	5538	CD1	TYR	L	140	38.788	-23.590	-38.545	1.00	33.79	L C
ATOM	5540	CE1	TYR	L	140	38.088	-24.595	-39.201	1.00	33.57	L C
ATOM	5542	CZ	TYR	L	140	38.778	-25.589	-39.851	1.00	33.70	L C
ATOM	5543	OH	TYR	L	140	38.066	-26.584	-40.477	1.00	37.54	L O
ATOM	5545	CE2	TYR	L	140	40.163	-25.599	-39.855	1.00	33.95	L C
ATOM	5547	CD2	TYR	L	140	40.850	-24.587	-39.207	1.00	32.87	L C
ATOM	5549	C	TYR	L	140	42.058	-24.080	-36.232	1.00	31.20	L C
ATOM	5550	O	TYR	L	140	43.282	-23.953	-36.304	1.00	35.48	L O
ATOM	5552	N	PRO	L	141	41.485	-25.273	-36.029	1.00	33.64	L N
ATOM	5553	CA	PRO	L	141	40.074	-25.644	-35.872	1.00	34.11	L C
ATOM	5555	CB	PRO	L	141	40.076	-27.149	-36.189	1.00	35.31	L C
ATOM	5558	CG	PRO	L	141	41.448	-27.620	-35.814	1.00	32.55	L C
ATOM	5561	CD	PRO	L	141	42.378	-26.447	-35.957	1.00	33.34	L C
ATOM	5564	C	PRO	L	141	39.479	-25.373	-34.483	1.00	32.63	L C
ATOM	5565	O	PRO	L	141	40.188	-24.958	-33.561	1.00	32.58	L O
ATOM	5566	N	ARG	L	142	38.178	-25.622	-34.356	1.00	35.34	L N
ATOM	5567	CA	ARG	L	142	37.399	-25.308	-33.155	1.00	38.47	L C

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ATOM	5569	CB	ARG	L	142	35.914	-25.630	-33.404	1.00	45.00	L C
ATOM	5572	CG	ARG	L	142	34.968	-25.130	-32.299	1.00	45.82	L C
ATOM	5575	CD	ARG	L	142	33.498	-25.386	-32.624	1.00	50.55	L C
ATOM	5578	NE	ARG	L	142	32.677	-25.380	-31.407	1.00	55.04	L N
ATOM	5580	CZ	ARG	L	142	31.351	-25.542	-31.374	1.00	60.18	L C
ATOM	5581	NH1	ARG	L	142	30.655	-25.719	-32.499	1.00	61.78	L N
ATOM	5584	NH2	ARG	L	142	30.709	-25.529	-30.203	1.00	57.67	L N
ATOM	5587	C	ARG	L	142	37.846	-26.001	-31.870	1.00	37.08	L C
ATOM	5588	O	ARG	L	142	37.601	-25.485	-30.770	1.00	39.36	L O
ATOM	5590	N	GLU	L	143	38.484	-27.163	-32.000	1.00	40.01	L N
ATOM	5591	CA	GLU	L	143	38.883	-27.970	-30.843	1.00	38.63	L C
ATOM	5593	CB	GLU	L	143	39.246	-29.405	-31.251	1.00	43.07	L C
ATOM	5596	CG	GLU	L	143	38.102	-30.205	-31.862	1.00	44.07	L C
ATOM	5599	CD	GLU	L	143	38.095	-30.167	-33.383	1.00	47.20	L C
ATOM	5600	OE1	GLU	L	143	39.166	-30.386	-34.006	1.00	48.86	L O
ATOM	5601	OE2	GLU	L	143	37.011	-29.939	-33.955	1.00	45.72	L O
ATOM	5602	C	GLU	L	143	40.069	-27.338	-30.133	1.00	36.32	L C
ATOM	5603	O	GLU	L	143	41.086	-27.046	-30.753	1.00	33.72	L O
ATOM	5605	N	ALA	L	144	39.907	-27.136	-28.830	1.00	34.19	L N
ATOM	5606	CA	ALA	L	144	40.903	-26.504	-27.983	1.00	39.37	L C
ATOM	5608	CB	ALA	L	144	40.823	-24.984	-28.102	1.00	37.46	L C
ATOM	5612	C	ALA	L	144	40.625	-26.937	-26.553	1.00	39.28	L C
ATOM	5613	O	ALA	L	144	39.467	-26.985	-26.139	1.00	42.41	L O
ATOM	5615	N	LYS	L	145	41.674	-27.273	-25.810	1.00	41.13	L N
ATOM	5616	CA	LYS	L	145	41.540	-27.614	-24.393	1.00	41.14	L C
ATOM	5618	CB	LYS	L	145	42.322	-28.893	-24.060	1.00	42.55	L C
ATOM	5621	CG	LYS	L	145	42.405	-29.245	-22.553	1.00	45.16	L C
ATOM	5624	CD	LYS	L	145	43.705	-30.017	-22.174	1.00	47.77	L C
ATOM	5627	CE	LYS	L	145	44.868	-29.099	-21.699	1.00	49.76	L C
ATOM	5630	NZ	LYS	L	145	45.154	-29.151	-20.227	1.00	50.73	L N
ATOM	5634	C	LYS	L	145	42.074	-26.442	-23.585	1.00	38.67	L C
ATOM	5635	O	LYS	L	145	43.158	-25.938	-23.868	1.00	37.45	L O
ATOM	5637	N	VAL	L	146	41.320	-26.028	-22.569	1.00	38.37	L N
ATOM	5638	CA	VAL	L	146	41.733	-24.937	-21.688	1.00	36.22	L C
ATOM	5640	CB	VAL	L	146	40.886	-23.662	-21.955	1.00	34.98	L C
ATOM	5642	CG1	VAL	L	146	41.399	-22.501	-21.164	1.00	32.51	L C
ATOM	5646	CG2	VAL	L	146	40.873	-23.317	-23.453	1.00	31.37	L C
ATOM	5650	C	VAL	L	146	41.616	-25.376	-20.217	1.00	36.22	L C
ATOM	5651	O	VAL	L	146	40.511	-25.518	-19.691	1.00	34.63	L O
ATOM	5653	N	GLN	L	147	42.764	-25.593	-19.567	1.00	36.17	L N
ATOM	5654	CA	GLN	L	147	42.817	-25.995	-18.145	1.00	38.72	L C
ATOM	5656	CB	GLN	L	147	43.796	-27.165	-17.933	1.00	44.21	L C
ATOM	5659	CG	GLN	L	147	43.146	-28.563	-17.916	1.00	50.68	L C
ATOM	5662	CD	GLN	L	147	42.458	-28.915	-16.592	1.00	56.57	L C
ATOM	5663	OE1	GLN	L	147	42.831	-28.426	-15.510	1.00	57.00	L O
ATOM	5664	NE2	GLN	L	147	41.457	-29.791	-16.676	1.00	57.92	L N
ATOM	5667	C	GLN	L	147	43.248	-24.845	-17.241	1.00	36.13	L C
ATOM	5668	O	GLN	L	147	44.185	-24.116	-17.561	1.00	34.51	L O
ATOM	5670	N	TRP	L	148	42.582	-24.720	-16.099	1.00	34.21	L N
ATOM	5671	CA	TRP	L	148	42.949	-23.730	-15.094	1.00	36.62	L C
ATOM	5673	CB	TRP	L	148	41.698	-23.168	-14.416	1.00	33.63	L C
ATOM	5676	CG	TRP	L	148	40.901	-22.236	-15.274	1.00	33.25	L C
ATOM	5677	CD1	TRP	L	148	39.770	-22.535	-15.969	1.00	32.47	L C
ATOM	5679	NE1	TRP	L	148	39.315	-21.424	-16.629	1.00	32.55	L N
ATOM	5681	CE2	TRP	L	148	40.157	-20.374	-16.374	1.00	32.76	L C
ATOM	5682	CD2	TRP	L	148	41.165	-20.846	-15.514	1.00	33.28	L C
ATOM	5683	CE3	TRP	L	148	42.159	-19.958	-15.093	1.00	31.89	L C
ATOM	5685	CZ3	TRP	L	148	42.115	-18.651	-15.533	1.00	31.85	L C
ATOM	5687	CH2	TRP	L	148	41.095	-18.206	-16.377	1.00	32.35	L C
ATOM	5689	CZ2	TRP	L	148	40.110	-19.051	-16.813	1.00	32.33	L C
ATOM	5691	C	TRP	L	148	43.887	-24.314	-14.030	1.00	38.94	L C
ATOM	5692	O	TRP	L	148	43.809	-25.504	-13.700	1.00	38.01	L O
ATOM	5694	N	LYS	L	149	44.767	-23.453	-13.509	1.00	41.26	L N
ATOM	5695	CA	LYS	L	149	45.681	-23.780	-12.407	1.00	40.46	L C
ATOM	5697	CB	LYS	L	149	47.103	-24.009	-12.930	1.00	42.22	L C
ATOM	5700	CG	LYS	L	149	47.225	-25.082	-14.009	1.00	43.51	L C
ATOM	5703	CD	LYS	L	149	48.622	-25.084	-14.622	1.00	44.86	L C
ATOM	5706	CE	LYS	L	149	48.707	-25.981	-15.856	1.00	45.55	L C

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ATOM	5709	NZ	LYS	L	149	48.584	-27.430	-15.504	1.00	47.43	L	N
ATOM	5713	C	LYS	L	149	45.700	-22.630	-11.395	1.00	38.22	L	C
ATOM	5714	O	LYS	L	149	45.929	-21.483	-11.761	1.00	35.51	L	O
ATOM	5716	N	VAL	L	150	45.447	-22.947	-10.129	1.00	38.52	L	N
ATOM	5717	CA	VAL	L	150	45.546	-21.976	-9.034	1.00	39.86	L	C
ATOM	5719	CB	VAL	L	150	44.176	-21.759	-8.352	1.00	37.38	L	C
ATOM	5721	CG1	VAL	L	150	44.297	-20.771	-7.207	1.00	35.32	L	C
ATOM	5725	CG2	VAL	L	150	43.145	-21.280	-9.381	1.00	36.43	L	C
ATOM	5729	C	VAL	L	150	46.589	-22.470	-8.019	1.00	40.63	L	C
ATOM	5730	O	VAL	L	150	46.400	-23.505	-7.372	1.00	39.39	L	O
ATOM	5732	N	ASP	L	151	47.688	-21.725	-7.894	1.00	41.61	L	N
ATOM	5733	CA	ASP	L	151	48.880	-22.175	-7.163	1.00	41.95	L	C
ATOM	5735	CB	ASP	L	151	48.589	-22.382	-5.657	1.00	39.46	L	C
ATOM	5738	CG	ASP	L	151	48.255	-21.084	-4.930	1.00	39.50	L	C
ATOM	5739	OD1	ASP	L	151	48.727	-20.012	-5.365	1.00	39.54	L	O
ATOM	5740	OD2	ASP	L	151	47.538	-21.135	-3.900	1.00	38.04	L	O
ATOM	5741	C	ASP	L	151	49.426	-23.458	-7.807	1.00	42.83	L	C
ATOM	5742	O	ASP	L	151	49.930	-24.343	-7.122	1.00	46.78	L	O
ATOM	5744	N	ASN	L	152	49.311	-23.547	-9.131	1.00	43.24	L	N
ATOM	5745	CA	ASN	L	152	49.712	-24.737	-9.895	1.00	42.26	L	C
ATOM	5747	CB	ASN	L	152	51.212	-25.027	-9.695	1.00	42.94	L	C
ATOM	5750	CG	ASN	L	152	51.840	-25.773	-10.874	1.00	44.44	L	C
ATOM	5751	OD1	ASN	L	152	51.191	-26.044	-11.885	1.00	42.74	L	O
ATOM	5752	ND2	ASN	L	152	53.118	-26.110	-10.738	1.00	45.91	L	N
ATOM	5755	C	ASN	L	152	48.860	-25.992	-9.603	1.00	40.47	L	C
ATOM	5756	O	ASN	L	152	49.204	-27.093	-10.034	1.00	40.28	L	O
ATOM	5758	N	ALA	L	153	47.744	-25.817	-8.893	1.00	38.67	L	N
ATOM	5759	CA	ALA	L	153	46.798	-26.902	-8.617	1.00	39.00	L	C
ATOM	5761	CB	ALA	L	153	46.160	-26.704	-7.243	1.00	40.10	L	C
ATOM	5765	C	ALA	L	153	45.715	-26.942	-9.701	1.00	38.97	L	C
ATOM	5766	O	ALA	L	153	45.034	-25.943	-9.941	1.00	37.63	L	O
ATOM	5768	N	LEU	L	154	45.545	-28.092	-10.346	1.00	38.02	L	N
ATOM	5769	CA	LEU	L	154	44.566	-28.208	-11.427	1.00	39.82	L	C
ATOM	5771	CB	LEU	L	154	44.717	-29.520	-12.193	1.00	40.00	L	C
ATOM	5774	CG	LEU	L	154	45.505	-29.353	-13.483	1.00	42.88	L	C
ATOM	5776	CD1	LEU	L	154	47.003	-29.325	-13.191	1.00	43.14	L	C
ATOM	5780	CD2	LEU	L	154	45.124	-30.472	-14.434	1.00	42.40	L	C
ATOM	5784	C	LEU	L	154	43.132	-28.063	-10.926	1.00	40.15	L	C
ATOM	5785	O	LEU	L	154	42.778	-28.609	-9.877	1.00	35.98	L	O
ATOM	5787	N	GLN	L	155	42.319	-27.343	-11.707	1.00	38.53	L	N
ATOM	5788	CA	GLN	L	155	40.970	-26.971	-11.305	1.00	35.70	L	C
ATOM	5790	CB	GLN	L	155	40.707	-25.498	-11.627	1.00	32.72	L	C
ATOM	5793	CG	GLN	L	155	41.586	-24.531	-10.863	1.00	30.98	L	C
ATOM	5796	CD	GLN	L	155	41.511	-24.772	-9.378	1.00	28.89	L	C
ATOM	5797	OE1	GLN	L	155	42.471	-25.240	-8.765	1.00	23.19	L	O
ATOM	5798	NE2	GLN	L	155	40.352	-24.499	-8.796	1.00	27.15	L	N
ATOM	5801	C	GLN	L	155	39.959	-27.822	-12.026	1.00	35.34	L	C
ATOM	5802	O	GLN	L	155	40.192	-28.254	-13.156	1.00	32.05	L	O
ATOM	5804	N	SER	L	156	38.820	-28.041	-11.375	1.00	37.01	L	N
ATOM	5805	CA	SER	L	156	37.744	-28.824	-11.975	1.00	38.33	L	C
ATOM	5807	CB	SER	L	156	38.014	-30.316	-11.759	1.00	40.72	L	C
ATOM	5810	OG	SER	L	156	37.128	-31.116	-12.513	1.00	41.57	L	O
ATOM	5812	C	SER	L	156	36.384	-28.439	-11.394	1.00	37.32	L	C
ATOM	5813	O	SER	L	156	36.248	-28.257	-10.179	1.00	36.49	L	O
ATOM	5815	N	GLY	L	157	35.395	-28.299	-12.273	1.00	34.50	L	N
ATOM	5816	CA	GLY	L	157	34.009	-28.042	-11.874	1.00	35.89	L	C
ATOM	5819	C	GLY	L	157	33.659	-26.592	-11.574	1.00	36.75	L	C
ATOM	5820	O	GLY	L	157	32.543	-26.309	-11.131	1.00	35.23	L	O
ATOM	5822	N	ASN	L	158	34.596	-25.675	-11.828	1.00	35.34	L	N
ATOM	5823	CA	ASN	L	158	34.441	-24.255	-11.455	1.00	33.35	L	C
ATOM	5825	CB	ASN	L	158	35.394	-23.903	-10.288	1.00	32.43	L	C
ATOM	5828	CG	ASN	L	158	36.873	-24.208	-10.603	1.00	32.37	L	C
ATOM	5829	OD1	ASN	L	158	37.203	-24.796	-11.638	1.00	33.66	L	O
ATOM	5830	ND2	ASN	L	158	37.759	-23.788	-9.713	1.00	30.38	L	N
ATOM	5833	C	ASN	L	158	34.637	-23.276	-12.626	1.00	30.43	L	C
ATOM	5834	O	ASN	L	158	34.738	-22.063	-12.423	1.00	23.30	L	O
ATOM	5836	N	SER	L	159	34.661	-23.802	-13.849	1.00	32.33	L	N
ATOM	5837	CA	SER	L	159	34.948	-22.993	-15.014	1.00	30.78	L	C

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ATOM	5839	CB	SER	L	159	36.415	-23.189	-15.428	1.00	32.00	L	C
ATOM	5842	OG	SER	L	159	36.570	-24.162	-16.452	1.00	32.67	L	O
ATOM	5844	C	SER	L	159	33.981	-23.350	-16.145	1.00	30.89	L	C
ATOM	5845	O	SER	L	159	33.678	-24.525	-16.345	1.00	30.86	L	O
ATOM	5847	N	GLN	L	160	33.484	-22.334	-16.856	1.00	28.29	L	N
ATOM	5848	CA	GLN	L	160	32.637	-22.538	-18.032	1.00	28.38	L	C
ATOM	5850	CB	GLN	L	160	31.265	-21.921	-17.807	1.00	26.44	L	C
ATOM	5853	CG	GLN	L	160	30.524	-22.550	-16.671	1.00	25.96	L	C
ATOM	5856	CD	GLN	L	160	29.119	-22.063	-16.572	1.00	25.84	L	C
ATOM	5857	OE1	GLN	L	160	28.875	-20.926	-16.181	1.00	30.50	L	O
ATOM	5858	NE2	GLN	L	160	28.173	-22.919	-16.917	1.00	26.98	L	N
ATOM	5861	C	GLN	L	160	33.245	-21.941	-19.293	1.00	29.62	L	C
ATOM	5862	O	GLN	L	160	33.834	-20.869	-19.249	1.00	28.77	L	O
ATOM	5864	N	GLU	L	161	33.076	-22.636	-20.420	1.00	30.95	L	N
ATOM	5865	CA	GLU	L	161	33.524	-22.138	-21.711	1.00	33.83	L	C
ATOM	5867	CB	GLU	L	161	34.276	-23.222	-22.486	1.00	38.76	L	C
ATOM	5870	CG	GLU	L	161	35.494	-23.761	-21.770	1.00	39.08	L	C
ATOM	5873	CD	GLU	L	161	36.402	-24.558	-22.679	1.00	42.52	L	C
ATOM	5874	OE1	GLU	L	161	35.974	-24.934	-23.798	1.00	44.52	L	O
ATOM	5875	OE2	GLU	L	161	37.554	-24.816	-22.268	1.00	47.30	L	O
ATOM	5876	C	GLU	L	161	32.365	-21.637	-22.570	1.00	34.87	L	C
ATOM	5877	O	GLU	L	161	31.201	-21.991	-22.350	1.00	33.52	L	O
ATOM	5879	N	SER	L	162	32.719	-20.813	-23.552	1.00	33.74	L	N
ATOM	5880	CA	SER	L	162	31.801	-20.322	-24.572	1.00	32.35	L	C
ATOM	5882	CB	SER	L	162	31.182	-18.999	-24.128	1.00	35.98	L	C
ATOM	5885	OG	SER	L	162	30.182	-18.557	-25.020	1.00	35.55	L	O
ATOM	5887	C	SER	L	162	32.625	-20.124	-25.834	1.00	32.54	L	C
ATOM	5888	O	SER	L	162	33.729	-19.604	-25.765	1.00	30.03	L	O
ATOM	5890	N	VAL	L	163	32.122	-20.589	-26.974	1.00	33.10	L	N
ATOM	5891	CA	VAL	L	163	32.826	-20.427	-28.241	1.00	33.91	L	C
ATOM	5893	CB	VAL	L	163	33.243	-21.790	-28.850	1.00	32.64	L	C
ATOM	5895	CG1	VAL	L	163	34.207	-21.596	-30.029	1.00	31.57	L	C
ATOM	5899	CG2	VAL	L	163	33.892	-22.650	-27.798	1.00	34.29	L	C
ATOM	5903	C	VAL	L	163	31.934	-19.655	-29.208	1.00	34.43	L	C
ATOM	5904	O	VAL	L	163	30.721	-19.847	-29.229	1.00	31.52	L	O
ATOM	5906	N	THR	L	164	32.538	-18.763	-29.990	1.00	36.47	L	N
ATOM	5907	CA	THR	L	164	31.804	-18.032	-31.013	1.00	35.31	L	C
ATOM	5909	CB	THR	L	164	32.556	-16.767	-31.517	1.00	33.28	L	C
ATOM	5911	OG1	THR	L	164	33.743	-17.142	-32.221	1.00	30.68	L	O
ATOM	5913	CG2	THR	L	164	32.904	-15.847	-30.368	1.00	28.73	L	C
ATOM	5917	C	THR	L	164	31.514	-18.948	-32.197	1.00	33.32	L	C
ATOM	5918	O	THR	L	164	32.104	-20.023	-32.334	1.00	32.16	L	O
ATOM	5920	N	GLU	L	165	30.575	-18.522	-33.037	1.00	34.83	L	N
ATOM	5921	CA	GLU	L	165	30.347	-19.193	-34.311	1.00	34.72	L	C
ATOM	5923	CB	GLU	L	165	28.978	-18.841	-34.898	1.00	37.44	L	C
ATOM	5926	CG	GLU	L	165	27.812	-19.471	-34.120	1.00	43.21	L	C
ATOM	5929	CD	GLU	L	165	27.887	-21.000	-34.073	1.00	51.03	L	C
ATOM	5930	OE1	GLU	L	165	28.070	-21.633	-35.146	1.00	51.16	L	O
ATOM	5931	OE2	GLU	L	165	27.771	-21.567	-32.957	1.00	54.23	L	O
ATOM	5932	C	GLU	L	165	31.489	-18.822	-35.236	1.00	29.86	L	C
ATOM	5933	O	GLU	L	165	32.244	-17.900	-34.955	1.00	29.39	L	O
ATOM	5935	N	GLN	L	166	31.653	-19.563	-36.319	1.00	31.36	L	N
ATOM	5936	CA	GLN	L	166	32.793	-19.319	-37.186	1.00	30.42	L	C
ATOM	5938	CB	GLN	L	166	32.889	-20.405	-38.243	1.00	28.77	L	C
ATOM	5941	CG	GLN	L	166	34.140	-20.344	-39.035	1.00	28.12	L	C
ATOM	5944	CD	GLN	L	166	34.286	-21.516	-39.981	1.00	26.48	L	C
ATOM	5945	OE1	GLN	L	166	33.306	-22.100	-40.431	1.00	24.75	L	O
ATOM	5946	NE2	GLN	L	166	35.522	-21.871	-40.270	1.00	25.55	L	N
ATOM	5949	C	GLN	L	166	32.698	-17.926	-37.820	1.00	30.92	L	C
ATOM	5950	O	GLN	L	166	31.624	-17.508	-38.248	1.00	34.91	L	O
ATOM	5952	N	ASP	L	167	33.820	-17.215	-37.867	1.00	32.12	L	N
ATOM	5953	CA	ASP	L	167	33.832	-15.817	-38.298	1.00	33.08	L	C
ATOM	5955	CB	ASP	L	167	35.125	-15.123	-37.833	1.00	34.36	L	C
ATOM	5958	CG	ASP	L	167	35.176	-13.635	-38.204	1.00	34.47	L	C
ATOM	5959	OD1	ASP	L	167	34.544	-12.823	-37.502	1.00	34.75	L	O
ATOM	5960	OD2	ASP	L	167	35.865	-13.281	-39.191	1.00	33.86	L	O
ATOM	5961	C	ASP	L	167	33.686	-15.720	-39.808	1.00	31.48	L	C
ATOM	5962	O	ASP	L	167	34.312	-16.470	-40.549	1.00	34.77	L	O

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ATOM	5964	N	SER	L	168	32.865	-14.781	-40.264	1.00	32.07	L	N
ATOM	5965	CA	SER	L	168	32.556	-14.651	-41.683	1.00	33.45	L	C
ATOM	5967	CB	SER	L	168	31.249	-13.886	-41.855	1.00	34.85	L	C
ATOM	5970	OG	SER	L	168	31.439	-12.532	-41.521	1.00	40.40	L	O
ATOM	5972	C	SER	L	168	33.658	-13.991	-42.527	1.00	34.80	L	C
ATOM	5973	O	SER	L	168	33.551	-13.963	-43.755	1.00	39.95	L	O
ATOM	5975	N	LYS	L	169	34.707	-13.468	-41.891	1.00	36.87	L	N
ATOM	5976	CA	LYS	L	169	35.856	-12.897	-42.619	1.00	38.46	L	C
ATOM	5978	CB	LYS	L	169	36.268	-11.537	-42.051	1.00	42.53	L	C
ATOM	5981	CG	LYS	L	169	35.455	-10.363	-42.579	1.00	48.26	L	C
ATOM	5984	CD	LYS	L	169	35.925	-9.016	-42.003	1.00	49.20	L	C
ATOM	5987	CE	LYS	L	169	37.414	-8.710	-42.293	1.00	53.98	L	C
ATOM	5990	NZ	LYS	L	169	37.830	-8.937	-43.714	1.00	54.50	L	N
ATOM	5994	C	LYS	L	169	37.066	-13.818	-42.610	1.00	34.45	L	C
ATOM	5995	O	LYS	L	169	37.632	-14.082	-43.667	1.00	35.19	L	O
ATOM	5997	N	ASP	L	170	37.469	-14.281	-41.423	1.00	33.51	L	N
ATOM	5998	CA	ASP	L	170	38.679	-15.119	-41.274	1.00	32.06	L	C
ATOM	6000	CB	ASP	L	170	39.698	-14.524	-40.258	1.00	35.84	L	C
ATOM	6003	CG	ASP	L	170	39.183	-14.462	-38.806	1.00	37.71	L	C
ATOM	6004	OD1	ASP	L	170	38.166	-15.083	-38.446	1.00	38.90	L	O
ATOM	6005	OD2	ASP	L	170	39.828	-13.763	-38.000	1.00	43.09	L	O
ATOM	6006	C	ASP	L	170	38.406	-16.594	-40.987	1.00	29.88	L	C
ATOM	6007	O	ASP	L	170	39.337	-17.378	-40.902	1.00	32.35	L	O
ATOM	6009	N	SER	L	171	37.136	-16.970	-40.861	1.00	26.94	L	N
ATOM	6010	CA	SER	L	171	36.739	-18.377	-40.720	1.00	27.22	L	C
ATOM	6012	CB	SER	L	171	37.053	-19.163	-41.999	1.00	23.36	L	C
ATOM	6015	OG	SER	L	171	36.436	-18.565	-43.142	1.00	24.46	L	O
ATOM	6017	C	SER	L	171	37.333	-19.050	-39.477	1.00	26.73	L	C
ATOM	6018	O	SER	L	171	37.538	-20.264	-39.462	1.00	26.39	L	O
ATOM	6020	N	THR	L	172	37.575	-18.250	-38.434	1.00	27.07	L	N
ATOM	6021	CA	THR	L	172	38.126	-18.734	-37.169	1.00	22.43	L	C
ATOM	6023	CB	THR	L	172	39.376	-17.915	-36.694	1.00	24.57	L	C
ATOM	6025	OG1	THR	L	172	39.000	-16.566	-36.371	1.00	30.12	L	O
ATOM	6027	CG2	THR	L	172	40.496	-17.926	-37.732	1.00	25.53	L	C
ATOM	6031	C	THR	L	172	37.078	-18.673	-36.072	1.00	23.37	L	C
ATOM	6032	O	THR	L	172	35.972	-18.167	-36.290	1.00	24.31	L	O
ATOM	6034	N	TYR	L	173	37.448	-19.214	-34.907	1.00	24.61	L	N
ATOM	6035	CA	TYR	L	173	36.643	-19.212	-33.694	1.00	23.41	L	C
ATOM	6037	CB	TYR	L	173	36.412	-20.643	-33.207	1.00	29.32	L	C
ATOM	6040	CG	TYR	L	173	35.761	-21.536	-34.231	1.00	31.13	L	C
ATOM	6041	CD1	TYR	L	173	34.384	-21.680	-34.268	1.00	31.32	L	C
ATOM	6043	CE1	TYR	L	173	33.779	-22.476	-35.211	1.00	30.88	L	C
ATOM	6045	CZ	TYR	L	173	34.559	-23.141	-36.119	1.00	30.16	L	C
ATOM	6046	OH	TYR	L	173	33.965	-23.930	-37.058	1.00	34.02	L	O
ATOM	6048	CE2	TYR	L	173	35.935	-23.012	-36.103	1.00	30.58	L	C
ATOM	6050	CD2	TYR	L	173	36.521	-22.217	-35.169	1.00	28.39	L	C
ATOM	6052	C	TYR	L	173	37.370	-18.462	-32.603	1.00	23.24	L	C
ATOM	6053	O	TYR	L	173	38.599	-18.321	-32.641	1.00	19.59	L	O
ATOM	6055	N	SER	L	174	36.614	-17.995	-31.615	1.00	24.95	L	N
ATOM	6056	CA	SER	L	174	37.192	-17.497	-30.378	1.00	26.07	L	C
ATOM	6058	CB	SER	L	174	37.086	-15.976	-30.288	1.00	27.75	L	C
ATOM	6061	OG	SER	L	174	37.833	-15.374	-31.331	1.00	31.20	L	O
ATOM	6063	C	SER	L	174	36.483	-18.175	-29.218	1.00	29.37	L	C
ATOM	6064	O	SER	L	174	35.407	-18.719	-29.389	1.00	29.88	L	O
ATOM	6066	N	LEU	L	175	37.098	-18.147	-28.040	1.00	30.68	L	N
ATOM	6067	CA	LEU	L	175	36.588	-18.875	-26.880	1.00	26.18	L	C
ATOM	6069	CB	LEU	L	175	37.238	-20.269	-26.810	1.00	27.28	L	C
ATOM	6072	CG	LEU	L	175	36.899	-21.220	-25.655	1.00	27.53	L	C
ATOM	6074	CD1	LEU	L	175	37.113	-22.653	-26.077	1.00	22.57	L	C
ATOM	6078	CD2	LEU	L	175	37.715	-20.931	-24.393	1.00	25.16	L	C
ATOM	6082	C	LEU	L	175	36.910	-18.082	-25.640	1.00	24.86	L	C
ATOM	6083	O	LEU	L	175	38.029	-17.597	-25.492	1.00	25.64	L	O
ATOM	6085	N	SER	L	176	35.923	-17.916	-24.765	1.00	26.41	L	N
ATOM	6086	CA	SER	L	176	36.178	-17.441	-23.416	1.00	28.55	L	C
ATOM	6088	CB	SER	L	176	35.179	-16.355	-23.010	1.00	31.26	L	C
ATOM	6091	OG	SER	L	176	33.862	-16.863	-22.916	1.00	32.89	L	O
ATOM	6093	C	SER	L	176	36.072	-18.639	-22.482	1.00	30.96	L	C
ATOM	6094	O	SER	L	176	35.328	-19.573	-22.756	1.00	35.23	L	O

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ATOM	6096	N	SER	L	177	36.840	-18.619	-21.399	1.00	34.04	L	N
ATOM	6097	CA	SER	L	177	36.668	-19.558	-20.293	1.00	30.27	L	C
ATOM	6099	CB	SER	L	177	37.781	-20.594	-20.292	1.00	31.08	L	C
ATOM	6102	OG	SER	L	177	37.770	-21.294	-19.070	1.00	27.93	L	O
ATOM	6104	C	SER	L	177	36.676	-18.782	-18.991	1.00	31.32	L	C
ATOM	6105	O	SER	L	177	37.599	-18.023	-18.741	1.00	32.27	L	O
ATOM	6107	N	THR	L	178	35.644	-18.969	-18.169	1.00	31.30	L	N
ATOM	6108	CA	THR	L	178	35.489	-18.203	-16.943	1.00	30.24	L	C
ATOM	6110	CB	THR	L	178	34.186	-17.384	-16.956	1.00	32.10	L	C
ATOM	6112	OG1	THR	L	178	34.071	-16.684	-18.205	1.00	32.15	L	O
ATOM	6114	CG2	THR	L	178	34.175	-16.393	-15.806	1.00	27.85	L	C
ATOM	6118	C	THR	L	178	35.535	-19.063	-15.679	1.00	28.58	L	C
ATOM	6119	O	THR	L	178	34.609	-19.821	-15.383	1.00	23.32	L	O
ATOM	6121	N	LEU	L	179	36.631	-18.905	-14.941	1.00	28.79	L	N
ATOM	6122	CA	LEU	L	179	36.848	-19.529	-13.637	1.00	28.35	L	C
ATOM	6124	CB	LEU	L	179	38.354	-19.644	-13.378	1.00	27.48	L	C
ATOM	6127	CG	LEU	L	179	38.826	-20.264	-12.068	1.00	27.66	L	C
ATOM	6129	CD1	LEU	L	179	38.584	-21.754	-12.130	1.00	29.06	L	C
ATOM	6133	CD2	LEU	L	179	40.292	-19.958	-11.834	1.00	27.43	L	C
ATOM	6137	C	LEU	L	179	36.229	-18.645	-12.570	1.00	26.76	L	C
ATOM	6138	O	LEU	L	179	36.588	-17.478	-12.469	1.00	24.87	L	O
ATOM	6140	N	THR	L	180	35.312	-19.202	-11.779	1.00	30.35	L	N
ATOM	6141	CA	THR	L	180	34.630	-18.455	-10.727	1.00	33.54	L	C
ATOM	6143	CB	THR	L	180	33.097	-18.483	-10.921	1.00	36.42	L	C
ATOM	6145	OG1	THR	L	180	32.758	-17.860	-12.168	1.00	40.29	L	O
ATOM	6147	CG2	THR	L	180	32.378	-17.742	-9.773	1.00	36.08	L	C
ATOM	6151	C	THR	L	180	34.967	-19.006	-9.335	1.00	37.60	L	C
ATOM	6152	O	THR	L	180	34.836	-20.207	-9.090	1.00	40.96	L	O
ATOM	6154	N	LEU	L	181	35.404	-18.112	-8.442	1.00	38.42	L	N
ATOM	6155	CA	LEU	L	181	35.636	-18.419	-7.027	1.00	35.46	L	C
ATOM	6157	CB	LEU	L	181	37.134	-18.386	-6.688	1.00	34.84	L	C
ATOM	6160	CG	LEU	L	181	38.144	-19.157	-7.545	1.00	34.65	L	C
ATOM	6162	CD1	LEU	L	181	38.389	-18.453	-8.869	1.00	35.54	L	C
ATOM	6166	CD2	LEU	L	181	39.449	-19.325	-6.793	1.00	32.17	L	C
ATOM	6170	C	LEU	L	181	34.931	-17.384	-6.162	1.00	35.81	L	C
ATOM	6171	O	LEU	L	181	34.535	-16.325	-6.642	1.00	32.20	L	O
ATOM	6173	N	SER	L	182	34.789	-17.691	-4.875	1.00	38.48	L	N
ATOM	6174	CA	SER	L	182	34.430	-16.677	-3.889	1.00	40.00	L	C
ATOM	6176	CB	SER	L	182	34.056	-17.314	-2.550	1.00	39.97	L	C
ATOM	6179	OG	SER	L	182	35.154	-18.044	-2.028	1.00	41.68	L	O
ATOM	6181	C	SER	L	182	35.636	-15.765	-3.701	1.00	39.71	L	C
ATOM	6182	O	SER	L	182	36.776	-16.174	-3.955	1.00	38.11	L	O
ATOM	6184	N	LYS	L	183	35.376	-14.529	-3.283	1.00	40.16	L	N
ATOM	6185	CA	LYS	L	183	36.433	-13.609	-2.853	1.00	41.56	L	C
ATOM	6187	CB	LYS	L	183	35.820	-12.342	-2.240	1.00	41.26	L	C
ATOM	6190	CG	LYS	L	183	36.828	-11.287	-1.743	1.00	41.42	L	C
ATOM	6193	CD	LYS	L	183	36.135	-10.198	-0.922	1.00	40.80	L	C
ATOM	6196	CE	LYS	L	183	37.086	-9.062	-0.531	1.00	40.78	L	C
ATOM	6199	NZ	LYS	L	183	37.995	-9.438	0.581	1.00	35.82	L	N
ATOM	6203	C	LYS	L	183	37.324	-14.300	-1.823	1.00	42.13	L	C
ATOM	6204	O	LYS	L	183	38.554	-14.317	-1.964	1.00	41.13	L	O
ATOM	6206	N	ALA	L	184	36.687	-14.873	-0.798	1.00	42.16	L	N
ATOM	6207	CA	ALA	L	184	37.391	-15.559	0.287	1.00	42.49	L	C
ATOM	6209	CB	ALA	L	184	36.400	-16.292	1.190	1.00	42.47	L	C
ATOM	6213	C	ALA	L	184	38.450	-16.524	-0.243	1.00	42.76	L	C
ATOM	6214	O	ALA	L	184	39.619	-16.436	0.140	1.00	41.63	L	O
ATOM	6216	N	ASP	L	185	38.052	-17.426	-1.141	1.00	46.13	L	N
ATOM	6217	CA	ASP	L	185	38.991	-18.415	-1.690	1.00	44.00	L	C
ATOM	6219	CB	ASP	L	185	38.243	-19.597	-2.337	1.00	47.80	L	C
ATOM	6222	CG	ASP	L	185	39.135	-20.840	-2.534	1.00	50.72	L	C
ATOM	6223	OD1	ASP	L	185	40.083	-21.066	-1.739	1.00	52.27	L	O
ATOM	6224	OD2	ASP	L	185	38.872	-21.609	-3.490	1.00	53.80	L	O
ATOM	6225	C	ASP	L	185	39.972	-17.768	-2.679	1.00	40.68	L	C
ATOM	6226	O	ASP	L	185	41.135	-18.169	-2.749	1.00	36.93	L	O
ATOM	6228	N	TYR	L	186	39.512	-16.755	-3.416	1.00	40.48	L	N
ATOM	6229	CA	TYR	L	186	40.354	-16.069	-4.410	1.00	40.75	L	C
ATOM	6231	CB	TYR	L	186	39.546	-15.011	-5.196	1.00	37.27	L	C
ATOM	6234	CG	TYR	L	186	40.395	-14.161	-6.133	1.00	37.30	L	C

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ATOM	6235	CD1	TYR	L	186	41.002	-14.718	-7.252	1.00	36.31	L	C
ATOM	6237	CE1	TYR	L	186	41.788	-13.951	-8.108	1.00	36.20	L	C
ATOM	6239	CZ	TYR	L	186	41.973	-12.613	-7.850	1.00	35.59	L	C
ATOM	6240	OH	TYR	L	186	42.751	-11.861	-8.693	1.00	35.44	L	O
ATOM	6242	CE2	TYR	L	186	41.385	-12.028	-6.744	1.00	36.61	L	C
ATOM	6244	CD2	TYR	L	186	40.599	-12.803	-5.891	1.00	36.95	L	C
ATOM	6246	C	TYR	L	186	41.579	-15.429	-3.747	1.00	38.71	L	C
ATOM	6247	O	TYR	L	186	42.687	-15.494	-4.285	1.00	32.86	L	O
ATOM	6249	N	GLU	L	187	41.362	-14.829	-2.576	1.00	40.69	L	N
ATOM	6250	CA	GLU	L	187	42.432	-14.189	-1.795	1.00	42.64	L	C
ATOM	6252	CB	GLU	L	187	41.837	-13.153	-0.835	1.00	43.11	L	C
ATOM	6255	CG	GLU	L	187	41.400	-11.881	-1.538	1.00	43.81	L	C
ATOM	6258	CD	GLU	L	187	40.524	-10.995	-0.685	1.00	43.62	L	C
ATOM	6259	OE1	GLU	L	187	40.095	-11.426	0.409	1.00	41.82	L	O
ATOM	6260	OE2	GLU	L	187	40.253	-9.860	-1.127	1.00	45.57	L	O
ATOM	6261	C	GLU	L	187	43.348	-15.146	-1.005	1.00	43.40	L	C
ATOM	6262	O	GLU	L	187	44.389	-14.717	-0.499	1.00	44.40	L	O
ATOM	6264	N	LYS	L	188	42.974	-16.421	-0.894	1.00	41.06	L	N
ATOM	6265	CA	LYS	L	188	43.838	-17.414	-0.242	1.00	40.98	L	C
ATOM	6267	CB	LYS	L	188	43.008	-18.590	0.310	1.00	43.40	L	C
ATOM	6270	CG	LYS	L	188	42.236	-18.304	1.621	1.00	45.68	L	C
ATOM	6273	CD	LYS	L	188	43.108	-17.749	2.787	1.00	46.49	L	C
ATOM	6276	CE	LYS	L	188	44.301	-18.652	3.151	1.00	45.70	L	C
ATOM	6279	NZ	LYS	L	188	45.100	-18.104	4.286	1.00	45.08	L	N
ATOM	6283	C	LYS	L	188	44.971	-17.945	-1.142	1.00	40.44	L	C
ATOM	6284	O	LYS	L	188	45.934	-18.534	-0.632	1.00	38.51	L	O
ATOM	6286	N	HIS	L	189	44.865	-17.732	-2.458	1.00	39.12	L	N
ATOM	6287	CA	HIS	L	189	45.828	-18.281	-3.433	1.00	37.96	L	C
ATOM	6289	CB	HIS	L	189	45.114	-19.328	-4.301	1.00	34.01	L	C
ATOM	6292	CG	HIS	L	189	44.418	-20.389	-3.494	1.00	34.80	L	C
ATOM	6293	ND1	HIS	L	189	45.099	-21.355	-2.780	1.00	34.75	L	N
ATOM	6295	CE1	HIS	L	189	44.231	-22.129	-2.150	1.00	35.27	L	C
ATOM	6297	NE2	HIS	L	189	43.013	-21.697	-2.421	1.00	35.24	L	N
ATOM	6299	CD2	HIS	L	189	43.102	-20.608	-3.256	1.00	34.22	L	C
ATOM	6301	C	HIS	L	189	46.529	-17.167	-4.256	1.00	36.94	L	C
ATOM	6302	O	HIS	L	189	46.068	-16.028	-4.267	1.00	34.07	L	O
ATOM	6304	N	LYS	L	190	47.640	-17.499	-4.924	1.00	39.11	L	N
ATOM	6305	CA	LYS	L	190	48.585	-16.494	-5.471	1.00	39.09	L	C
ATOM	6307	CB	LYS	L	190	49.990	-16.783	-4.928	1.00	42.89	L	C
ATOM	6310	CG	LYS	L	190	51.143	-15.941	-5.511	1.00	42.98	L	C
ATOM	6313	CD	LYS	L	190	52.479	-16.360	-4.867	1.00	44.42	L	C
ATOM	6316	CE	LYS	L	190	53.637	-15.425	-5.226	1.00	45.17	L	C
ATOM	6319	NZ	LYS	L	190	54.795	-15.581	-4.288	1.00	43.96	L	N
ATOM	6323	C	LYS	L	190	48.651	-16.400	-7.005	1.00	38.45	L	C
ATOM	6324	O	LYS	L	190	48.343	-15.346	-7.574	1.00	36.16	L	O
ATOM	6326	N	VAL	L	191	49.097	-17.475	-7.660	1.00	35.28	L	N
ATOM	6327	CA	VAL	L	191	49.243	-17.491	-9.125	1.00	37.14	L	C
ATOM	6329	CB	VAL	L	191	50.474	-18.311	-9.583	1.00	38.23	L	C
ATOM	6331	CG1	VAL	L	191	50.602	-18.280	-11.106	1.00	37.39	L	C
ATOM	6335	CG2	VAL	L	191	51.747	-17.779	-8.929	1.00	40.15	L	C
ATOM	6339	C	VAL	L	191	47.996	-18.055	-9.813	1.00	34.68	L	C
ATOM	6340	O	VAL	L	191	47.496	-19.121	-9.448	1.00	32.06	L	O
ATOM	6342	N	TYR	L	192	47.504	-17.328	-10.812	1.00	36.70	L	N
ATOM	6343	CA	TYR	L	192	46.369	-17.773	-11.624	1.00	35.58	L	C
ATOM	6345	CB	TYR	L	192	45.210	-16.788	-11.491	1.00	32.47	L	C
ATOM	6348	CG	TYR	L	192	44.577	-16.849	-10.121	1.00	31.96	L	C
ATOM	6349	CD1	TYR	L	192	43.384	-17.536	-9.915	1.00	32.83	L	C
ATOM	6351	CE1	TYR	L	192	42.809	-17.614	-8.663	1.00	31.55	L	C
ATOM	6353	CZ	TYR	L	192	43.435	-17.010	-7.591	1.00	32.15	L	C
ATOM	6354	OH	TYR	L	192	42.866	-17.085	-6.346	1.00	31.08	L	O
ATOM	6356	CE2	TYR	L	192	44.623	-16.333	-7.768	1.00	31.22	L	C
ATOM	6358	CD2	TYR	L	192	45.189	-16.262	-9.029	1.00	30.85	L	C
ATOM	6360	C	TYR	L	192	46.802	-17.945	-13.078	1.00	34.78	L	C
ATOM	6361	O	TYR	L	192	47.371	-17.041	-13.675	1.00	33.68	L	O
ATOM	6363	N	ALA	L	193	46.539	-19.124	-13.631	1.00	36.13	L	N
ATOM	6364	CA	ALA	L	193	47.005	-19.476	-14.966	1.00	37.57	L	C
ATOM	6366	CB	ALA	L	193	48.306	-20.260	-14.868	1.00	36.55	L	C
ATOM	6370	C	ALA	L	193	45.964	-20.292	-15.722	1.00	35.68	L	C

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ATOM	6371	O	ALA	L	193	45.302	-21.158	-15.155	1.00	31.77	L	O
ATOM	6373	N	CYS	L	194	45.822	-20.006	-17.008	1.00	40.77	L	N
ATOM	6374	CA	CYS	L	194	45.073	-20.886	-17.903	1.00	41.93	L	C
ATOM	6376	CB	CYS	L	194	43.895	-20.160	-18.576	1.00	43.71	L	C
ATOM	6379	SG	CYS	L	194	44.341	-18.811	-19.684	1.00	47.55	L	S
ATOM	6381	C	CYS	L	194	46.050	-21.457	-18.921	1.00	40.68	L	C
ATOM	6382	O	CYS	L	194	46.825	-20.717	-19.531	1.00	41.65	L	O
ATOM	6384	N	GLU	L	195	46.042	-22.779	-19.065	1.00	39.22	L	N
ATOM	6385	CA	GLU	L	195	46.923	-23.434	-20.013	1.00	43.03	L	C
ATOM	6387	CB	GLU	L	195	47.739	-24.553	-19.352	1.00	45.41	L	C
ATOM	6390	CG	GLU	L	195	47.064	-25.914	-19.205	1.00	49.49	L	C
ATOM	6393	CD	GLU	L	195	48.070	-27.050	-19.275	1.00	50.76	L	C
ATOM	6394	OE1	GLU	L	195	48.747	-27.166	-20.321	1.00	52.44	L	O
ATOM	6395	OE2	GLU	L	195	48.185	-27.816	-18.290	1.00	55.09	L	O
ATOM	6396	C	GLU	L	195	46.096	-23.912	-21.201	1.00	38.74	L	C
ATOM	6397	O	GLU	L	195	45.054	-24.546	-21.040	1.00	36.74	L	O
ATOM	6399	N	VAL	L	196	46.558	-23.558	-22.389	1.00	37.23	L	N
ATOM	6400	CA	VAL	L	196	45.799	-23.752	-23.606	1.00	38.19	L	C
ATOM	6402	CB	VAL	L	196	45.556	-22.407	-24.343	1.00	36.91	L	C
ATOM	6404	CG1	VAL	L	196	44.877	-22.616	-25.697	1.00	34.72	L	C
ATOM	6408	CG2	VAL	L	196	44.736	-21.471	-23.462	1.00	34.22	L	C
ATOM	6412	C	VAL	L	196	46.607	-24.670	-24.472	1.00	39.34	L	C
ATOM	6413	O	VAL	L	196	47.793	-24.431	-24.680	1.00	38.45	L	O
ATOM	6415	N	THR	L	197	45.958	-25.730	-24.950	1.00	41.60	L	N
ATOM	6416	CA	THR	L	197	46.544	-26.652	-25.908	1.00	41.60	L	C
ATOM	6418	CB	THR	L	197	46.775	-28.066	-25.293	1.00	44.28	L	C
ATOM	6420	OG1	THR	L	197	46.988	-29.021	-26.338	1.00	46.04	L	O
ATOM	6422	CG2	THR	L	197	45.597	-28.504	-24.479	1.00	42.28	L	C
ATOM	6426	C	THR	L	197	45.644	-26.696	-27.145	1.00	39.74	L	C
ATOM	6427	O	THR	L	197	44.416	-26.753	-27.046	1.00	40.14	L	O
ATOM	6429	N	HIS	L	198	46.281	-26.626	-28.307	1.00	37.75	L	N
ATOM	6430	CA	HIS	L	198	45.597	-26.526	-29.582	1.00	39.95	L	C
ATOM	6432	CB	HIS	L	198	45.162	-25.065	-29.828	1.00	36.41	L	C
ATOM	6435	CG	HIS	L	198	44.363	-24.870	-31.082	1.00	33.78	L	C
ATOM	6436	ND1	HIS	L	198	44.942	-24.569	-32.296	1.00	31.61	L	N
ATOM	6438	CE1	HIS	L	198	44.003	-24.464	-33.218	1.00	27.93	L	C
ATOM	6440	NE2	HIS	L	198	42.834	-24.693	-32.648	1.00	29.05	L	N
ATOM	6442	CD2	HIS	L	198	43.030	-24.936	-31.309	1.00	31.13	L	C
ATOM	6444	C	HIS	L	198	46.537	-27.017	-30.694	1.00	40.86	L	C
ATOM	6445	O	HIS	L	198	47.762	-27.002	-30.538	1.00	38.78	L	O
ATOM	6447	N	GLN	L	199	45.948	-27.449	-31.807	1.00	44.99	L	N
ATOM	6448	CA	GLN	L	199	46.681	-28.051	-32.918	1.00	44.13	L	C
ATOM	6450	CB	GLN	L	199	45.688	-28.475	-33.998	1.00	46.58	L	C
ATOM	6453	CG	GLN	L	199	46.252	-29.410	-35.048	1.00	49.59	L	C
ATOM	6456	CD	GLN	L	199	45.276	-29.649	-36.182	1.00	51.64	L	C
ATOM	6457	OE1	GLN	L	199	44.065	-29.791	-35.958	1.00	51.22	L	O
ATOM	6458	NE2	GLN	L	199	45.795	-29.687	-37.414	1.00	52.35	L	N
ATOM	6461	C	GLN	L	199	47.758	-27.145	-33.532	1.00	42.62	L	C
ATOM	6462	O	GLN	L	199	48.796	-27.628	-33.984	1.00	44.60	L	O
ATOM	6464	N	GLY	L	200	47.509	-25.841	-33.557	1.00	42.42	L	N
ATOM	6465	CA	GLY	L	200	48.462	-24.879	-34.117	1.00	43.36	L	C
ATOM	6468	C	GLY	L	200	49.597	-24.520	-33.171	1.00	44.08	L	C
ATOM	6469	O	GLY	L	200	50.561	-23.858	-33.574	1.00	37.85	L	O
ATOM	6471	N	LEU	L	201	49.463	-24.938	-31.909	1.00	44.57	L	N
ATOM	6472	CA	LEU	L	201	50.498	-24.760	-30.897	1.00	45.78	L	C
ATOM	6474	CB	LEU	L	201	49.870	-24.493	-29.528	1.00	40.59	L	C
ATOM	6477	CG	LEU	L	201	49.059	-23.207	-29.397	1.00	35.81	L	C
ATOM	6479	CD1	LEU	L	201	48.397	-23.176	-28.040	1.00	31.44	L	C
ATOM	6483	CD2	LEU	L	201	49.924	-21.972	-29.622	1.00	34.38	L	C
ATOM	6487	C	LEU	L	201	51.377	-26.003	-30.809	1.00	49.77	L	C
ATOM	6488	O	LEU	L	201	50.901	-27.092	-30.462	1.00	50.88	L	O
ATOM	6490	N	SER	L	202	52.661	-25.823	-31.117	1.00	52.93	L	N
ATOM	6491	CA	SER	L	202	53.657	-26.894	-31.019	1.00	51.96	L	C
ATOM	6493	CB	SER	L	202	55.055	-26.329	-31.288	1.00	54.75	L	C
ATOM	6496	OG	SER	L	202	56.043	-27.337	-31.175	1.00	56.78	L	O
ATOM	6498	C	SER	L	202	53.618	-27.552	-29.642	1.00	53.84	L	C
ATOM	6499	O	SER	L	202	53.763	-28.771	-29.522	1.00	56.46	L	O
ATOM	6501	N	SER	L	203	53.432	-26.727	-28.614	1.00	52.32	L	N

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ATOM	6502	CA	SER	L	203	53.261	-27.191	-27.248	1.00	50.89	L C
ATOM	6504	CB	SER	L	203	54.622	-27.303	-26.557	1.00	52.49	L C
ATOM	6507	OG	SER	L	203	55.283	-26.048	-26.526	1.00	52.37	L O
ATOM	6509	C	SER	L	203	52.376	-26.199	-26.493	1.00	50.47	L C
ATOM	6510	O	SER	L	203	52.338	-25.015	-26.849	1.00	50.12	L O
ATOM	6512	N	PRO	L	204	51.684	-26.667	-25.434	1.00	49.00	L N
ATOM	6513	CA	PRO	L	204	50.755	-25.831	-24.668	1.00	48.32	L C
ATOM	6515	CB	PRO	L	204	50.495	-26.661	-23.409	1.00	49.24	L C
ATOM	6518	CG	PRO	L	204	50.667	-28.059	-23.851	1.00	49.62	L C
ATOM	6521	CD	PRO	L	204	51.753	-28.036	-24.887	1.00	49.96	L C
ATOM	6524	C	PRO	L	204	51.311	-24.461	-24.280	1.00	46.81	L C
ATOM	6525	O	PRO	L	204	52.472	-24.358	-23.890	1.00	49.06	L O
ATOM	6526	N	VAL	L	205	50.473	-23.431	-24.401	1.00	46.00	L N
ATOM	6527	CA	VAL	L	205	50.804	-22.058	-24.007	1.00	44.86	L C
ATOM	6529	CB	VAL	L	205	50.323	-21.043	-25.067	1.00	43.87	L C
ATOM	6531	CG1	VAL	L	205	50.645	-19.625	-24.639	1.00	46.06	L C
ATOM	6535	CG2	VAL	L	205	50.941	-21.346	-26.421	1.00	43.83	L C
ATOM	6539	C	VAL	L	205	50.113	-21.738	-22.683	1.00	43.45	L C
ATOM	6540	O	VAL	L	205	48.940	-22.068	-22.500	1.00	42.63	L O
ATOM	6542	N	THR	L	206	50.841	-21.104	-21.764	1.00	42.55	L N
ATOM	6543	CA	THR	L	206	50.273	-20.667	-20.486	1.00	43.06	L C
ATOM	6545	CB	THR	L	206	50.985	-21.330	-19.278	1.00	42.88	L C
ATOM	6547	OG1	THR	L	206	51.035	-22.750	-19.472	1.00	45.22	L O
ATOM	6549	CG2	THR	L	206	50.254	-21.030	-17.977	1.00	39.29	L C
ATOM	6553	C	THR	L	206	50.351	-19.139	-20.364	1.00	43.20	L C
ATOM	6554	O	THR	L	206	51.353	-18.516	-20.731	1.00	41.18	L O
ATOM	6556	N	LYS	L	207	49.264	-18.550	-19.882	1.00	41.82	L N
ATOM	6557	CA	LYS	L	207	49.204	-17.132	-19.581	1.00	41.36	L C
ATOM	6559	CB	LYS	L	207	48.220	-16.423	-20.515	1.00	45.01	L C
ATOM	6562	CG	LYS	L	207	48.769	-16.159	-21.930	1.00	45.79	L C
ATOM	6565	CD	LYS	L	207	49.557	-14.843	-21.990	1.00	47.42	L C
ATOM	6568	CE	LYS	L	207	50.000	-14.473	-23.411	1.00	48.29	L C
ATOM	6571	NZ	LYS	L	207	49.741	-13.014	-23.711	1.00	48.56	L N
ATOM	6575	C	LYS	L	207	48.762	-17.033	-18.129	1.00	41.24	L C
ATOM	6576	O	LYS	L	207	47.902	-17.803	-17.683	1.00	34.79	L O
ATOM	6578	N	SER	L	208	49.362	-16.104	-17.386	1.00	41.46	L N
ATOM	6579	CA	SER	L	208	49.163	-16.058	-15.943	1.00	39.23	L C
ATOM	6581	CB	SER	L	208	50.066	-17.094	-15.273	1.00	40.60	L C
ATOM	6584	OG	SER	L	208	51.421	-16.904	-15.653	1.00	42.39	L O
ATOM	6586	C	SER	L	208	49.429	-14.693	-15.330	1.00	38.28	L C
ATOM	6587	O	SER	L	208	50.118	-13.853	-15.911	1.00	40.12	L O
ATOM	6589	N	PHE	L	209	48.865	-14.493	-14.143	1.00	38.02	L N
ATOM	6590	CA	PHE	L	209	49.111	-13.303	-13.342	1.00	36.29	L C
ATOM	6592	CB	PHE	L	209	47.970	-12.289	-13.509	1.00	34.61	L C
ATOM	6595	CG	PHE	L	209	46.630	-12.754	-12.976	1.00	33.86	L C
ATOM	6596	CD1	PHE	L	209	46.292	-12.568	-11.643	1.00	32.58	L C
ATOM	6598	CE1	PHE	L	209	45.059	-12.974	-11.153	1.00	33.77	L C
ATOM	6600	CZ	PHE	L	209	44.140	-13.557	-12.002	1.00	34.43	L C
ATOM	6602	CE2	PHE	L	209	44.456	-13.733	-13.339	1.00	33.37	L C
ATOM	6604	CD2	PHE	L	209	45.690	-13.327	-13.821	1.00	33.14	L C
ATOM	6606	C	PHE	L	209	49.269	-13.690	-11.884	1.00	36.56	L C
ATOM	6607	O	PHE	L	209	48.859	-14.781	-11.485	1.00	34.56	L O
ATOM	6609	N	ASN	L	210	49.877	-12.799	-11.098	1.00	38.51	L N
ATOM	6610	CA	ASN	L	210	49.932	-12.947	-9.640	1.00	39.31	L C
ATOM	6612	CB	ASN	L	210	51.326	-12.636	-9.108	1.00	40.43	L C
ATOM	6615	CG	ASN	L	210	52.384	-13.570	-9.653	1.00	41.74	L C
ATOM	6616	OD1	ASN	L	210	52.145	-14.766	-9.852	1.00	44.55	L O
ATOM	6617	ND2	ASN	L	210	53.573	-13.029	-9.887	1.00	42.04	L N
ATOM	6620	C	ASN	L	210	48.928	-11.994	-9.017	1.00	40.31	L C
ATOM	6621	O	ASN	L	210	48.944	-10.795	-9.313	1.00	39.80	L O
ATOM	6623	N	ARG	L	211	48.057	-12.528	-8.162	1.00	41.37	L N
ATOM	6624	CA	ARG	L	211	46.926	-11.773	-7.625	1.00	42.74	L C
ATOM	6626	CB	ARG	L	211	46.177	-12.612	-6.583	1.00	38.76	L C
ATOM	6629	CG	ARG	L	211	45.067	-11.867	-5.843	1.00	39.89	L C
ATOM	6632	CD	ARG	L	211	44.365	-12.757	-4.836	1.00	40.10	L C
ATOM	6635	NE	ARG	L	211	45.300	-13.300	-3.853	1.00	39.72	L N
ATOM	6637	CZ	ARG	L	211	45.559	-12.783	-2.650	1.00	39.74	L C
ATOM	6638	NH1	ARG	L	211	44.947	-11.683	-2.213	1.00	37.79	L N

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ATOM	6641	NH2	ARG	L	211	46.443	-13.392	-1.863	1.00	38.19	L	N
ATOM	6644	C	ARG	L	211	47.391	-10.443	-7.019	1.00	47.84	L	C
ATOM	6645	O	ARG	L	211	48.264	-10.422	-6.149	1.00	47.51	L	O
ATOM	6647	N	GLY	L	212	46.817	-9.342	-7.504	1.00	51.81	L	N
ATOM	6648	CA	GLY	L	212	47.105	-8.003	-6.981	1.00	52.44	L	C
ATOM	6651	C	GLY	L	212	48.547	-7.555	-7.156	1.00	54.99	L	C
ATOM	6652	O	GLY	L	212	49.141	-7.000	-6.233	1.00	57.87	L	O
ATOM	6654	N	GLU	L	213	49.107	-7.782	-8.344	1.00	56.81	L	N
ATOM	6655	CA	GLU	L	213	50.524	-7.511	-8.600	1.00	56.81	L	C
ATOM	6657	CB	GLU	L	213	51.369	-8.697	-8.117	1.00	57.49	L	C
ATOM	6660	CG	GLU	L	213	52.882	-8.502	-8.176	1.00	58.45	L	C
ATOM	6663	CD	GLU	L	213	53.642	-9.789	-7.855	1.00	59.57	L	C
ATOM	6664	OE1	GLU	L	213	54.234	-10.389	-8.783	1.00	59.90	L	O
ATOM	6665	OE2	GLU	L	213	53.632	-10.211	-6.676	1.00	60.08	L	O
ATOM	6666	C	GLU	L	213	50.766	-7.252	-10.084	1.00	56.94	L	C
ATOM	6667	O	GLU	L	213	50.335	-6.230	-10.619	1.00	56.25	L	O
ATOM	6669	N	GLU	H	1	10.286	1.610	-47.649	1.00	39.75	H	N
ATOM	6670	CA	GLU	H	1	10.725	0.187	-47.539	1.00	41.82	H	C
ATOM	6672	CB	GLU	H	1	12.220	0.107	-47.113	1.00	48.22	H	C
ATOM	6675	CG	GLU	H	1	12.541	-0.356	-45.650	1.00	51.94	H	C
ATOM	6678	CD	GLU	H	1	12.635	0.768	-44.592	1.00	54.37	H	C
ATOM	6679	OE1	GLU	H	1	12.218	1.919	-44.846	1.00	54.80	H	O
ATOM	6680	OE2	GLU	H	1	13.133	0.477	-43.477	1.00	54.44	H	O
ATOM	6681	C	GLU	H	1	9.803	-0.621	-46.601	1.00	37.68	H	C
ATOM	6682	O	GLU	H	1	9.233	-0.086	-45.645	1.00	34.67	H	O
ATOM	6686	N	VAL	H	2	9.674	-1.917	-46.877	1.00	36.12	H	N
ATOM	6687	CA	VAL	H	2	8.913	-2.810	-45.998	1.00	34.66	H	C
ATOM	6689	CB	VAL	H	2	8.706	-4.214	-46.631	1.00	31.10	H	C
ATOM	6691	CG1	VAL	H	2	8.009	-5.158	-45.646	1.00	25.65	H	C
ATOM	6695	CG2	VAL	H	2	7.920	-4.093	-47.936	1.00	26.85	H	C
ATOM	6699	C	VAL	H	2	9.622	-2.964	-44.658	1.00	33.46	H	C
ATOM	6700	O	VAL	H	2	10.829	-3.172	-44.604	1.00	35.64	H	O
ATOM	6702	N	GLN	H	3	8.869	-2.852	-43.578	1.00	31.66	H	N
ATOM	6703	CA	GLN	H	3	9.391	-3.150	-42.259	1.00	34.98	H	C
ATOM	6705	CB	GLN	H	3	9.676	-1.867	-41.484	1.00	38.83	H	C
ATOM	6708	CG	GLN	H	3	11.139	-1.494	-41.359	1.00	44.13	H	C
ATOM	6711	CD	GLN	H	3	11.355	-0.392	-40.303	1.00	45.42	H	C
ATOM	6712	OE1	GLN	H	3	12.100	-0.577	-39.331	1.00	48.14	H	O
ATOM	6713	NE2	GLN	H	3	10.680	0.748	-40.485	1.00	47.28	H	N
ATOM	6716	C	GLN	H	3	8.382	-3.983	-41.487	1.00	28.77	H	C
ATOM	6717	O	GLN	H	3	7.182	-3.769	-41.604	1.00	24.59	H	O
ATOM	6719	N	LEU	H	4	8.900	-4.943	-40.728	1.00	30.43	H	N
ATOM	6720	CA	LEU	H	4	8.152	-5.687	-39.728	1.00	29.17	H	C
ATOM	6722	CB	LEU	H	4	8.052	-7.165	-40.118	1.00	32.01	H	C
ATOM	6725	CG	LEU	H	4	7.346	-7.459	-41.443	1.00	30.46	H	C
ATOM	6727	CD1	LEU	H	4	7.371	-8.912	-41.725	1.00	28.18	H	C
ATOM	6731	CD2	LEU	H	4	5.908	-6.959	-41.395	1.00	23.08	H	C
ATOM	6735	C	LEU	H	4	8.918	-5.551	-38.418	1.00	27.12	H	C
ATOM	6736	O	LEU	H	4	10.064	-5.984	-38.315	1.00	31.47	H	O
ATOM	6738	N	VAL	H	5	8.283	-4.951	-37.426	1.00	25.43	H	N
ATOM	6739	CA	VAL	H	5	8.887	-4.724	-36.127	1.00	27.06	H	C
ATOM	6741	CB	VAL	H	5	8.870	-3.222	-35.736	1.00	23.44	H	C
ATOM	6743	CG1	VAL	H	5	9.419	-3.035	-34.322	1.00	19.35	H	C
ATOM	6747	CG2	VAL	H	5	9.675	-2.397	-36.742	1.00	25.50	H	C
ATOM	6751	C	VAL	H	5	8.093	-5.499	-35.088	1.00	28.22	H	C
ATOM	6752	O	VAL	H	5	6.910	-5.212	-34.855	1.00	19.40	H	O
ATOM	6754	N	GLN	H	6	8.748	-6.475	-34.465	1.00	26.67	H	N
ATOM	6755	CA	GLN	H	6	8.118	-7.273	-33.428	1.00	25.18	H	C
ATOM	6757	CB	GLN	H	6	8.625	-8.699	-33.487	1.00	24.68	H	C
ATOM	6760	CG	GLN	H	6	8.466	-9.320	-34.877	1.00	25.18	H	C
ATOM	6763	CD	GLN	H	6	8.940	-10.737	-34.931	1.00	20.61	H	C
ATOM	6764	OE1	GLN	H	6	9.741	-11.100	-35.787	1.00	25.23	H	O
ATOM	6765	NE2	GLN	H	6	8.457	-11.551	-34.019	1.00	17.17	H	N
ATOM	6768	C	GLN	H	6	8.384	-6.685	-32.058	1.00	25.80	H	C
ATOM	6769	O	GLN	H	6	9.347	-5.950	-31.872	1.00	23.83	H	O
ATOM	6771	N	SER	H	7	7.520	-7.030	-31.108	1.00	24.20	H	N
ATOM	6772	CA	SER	H	7	7.614	-6.538	-29.744	1.00	26.00	H	C
ATOM	6774	CB	SER	H	7	6.322	-6.863	-28.988	1.00	25.41	H	C

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ATOM	6777	OG	SER	H	7	5.974	-8.213	-29.218	1.00	27.49	H	O
ATOM	6779	C	SER	H	7	8.828	-7.120	-29.021	1.00	23.30	H	C
ATOM	6780	O	SER	H	7	9.489	-8.029	-29.521	1.00	29.43	H	O
ATOM	6782	N	GLY	H	8	9.109	-6.580	-27.837	1.00	29.18	H	N
ATOM	6783	CA	GLY	H	8	10.309	-6.919	-27.076	1.00	27.92	H	C
ATOM	6786	C	GLY	H	8	10.301	-8.326	-26.498	1.00	27.24	H	C
ATOM	6787	O	GLY	H	8	9.258	-8.974	-26.479	1.00	27.87	H	O
ATOM	6789	N	PRO	H	9	11.468	-8.795	-26.006	1.00	25.98	H	N
ATOM	6790	CA	PRO	H	9	11.608	-10.119	-25.419	1.00	28.15	H	C
ATOM	6792	CB	PRO	H	9	13.099	-10.198	-25.078	1.00	28.95	H	C
ATOM	6795	CG	PRO	H	9	13.500	-8.797	-24.873	1.00	28.98	H	C
ATOM	6798	CD	PRO	H	9	12.737	-8.050	-25.930	1.00	28.19	H	C
ATOM	6801	C	PRO	H	9	10.792	-10.224	-24.154	1.00	26.75	H	C
ATOM	6802	O	PRO	H	9	10.654	-9.237	-23.443	1.00	29.13	H	O
ATOM	6803	N	GLU	H	10	10.256	-11.408	-23.885	1.00	27.88	H	N
ATOM	6804	CA	GLU	H	10	9.400	-11.613	-22.729	1.00	30.77	H	C
ATOM	6806	CB	GLU	H	10	7.964	-11.875	-23.170	1.00	34.61	H	C
ATOM	6809	CG	GLU	H	10	7.389	-10.792	-24.052	1.00	36.72	H	C
ATOM	6812	CD	GLU	H	10	6.065	-10.269	-23.561	1.00	37.81	H	C
ATOM	6813	OE1	GLU	H	10	5.379	-9.612	-24.364	1.00	43.27	H	O
ATOM	6814	OE2	GLU	H	10	5.716	-10.489	-22.381	1.00	37.47	H	O
ATOM	6815	C	GLU	H	10	9.861	-12.785	-21.908	1.00	28.91	H	C
ATOM	6816	O	GLU	H	10	10.445	-13.731	-22.430	1.00	32.68	H	O
ATOM	6818	N	LEU	H	11	9.594	-12.704	-20.612	1.00	32.05	H	N
ATOM	6819	CA	LEU	H	11	9.743	-13.826	-19.707	1.00	31.21	H	C
ATOM	6821	CB	LEU	H	11	10.733	-13.512	-18.595	1.00	32.30	H	C
ATOM	6824	CG	LEU	H	11	10.801	-14.497	-17.420	1.00	32.01	H	C
ATOM	6826	CD1	LEU	H	11	11.475	-15.788	-17.853	1.00	28.98	H	C
ATOM	6830	CD2	LEU	H	11	11.533	-13.851	-16.253	1.00	28.96	H	C
ATOM	6834	C	LEU	H	11	8.374	-14.083	-19.117	1.00	32.87	H	C
ATOM	6835	O	LEU	H	11	7.689	-13.152	-18.673	1.00	28.57	H	O
ATOM	6837	N	LYS	H	12	7.978	-15.348	-19.129	1.00	33.56	H	N
ATOM	6838	CA	LYS	H	12	6.688	-15.761	-18.613	1.00	34.28	H	C
ATOM	6840	CB	LYS	H	12	5.693	-15.988	-19.765	1.00	34.85	H	C
ATOM	6843	CG	LYS	H	12	5.226	-14.701	-20.479	1.00	33.62	H	C
ATOM	6846	CD	LYS	H	12	4.329	-13.842	-19.583	1.00	35.48	H	C
ATOM	6849	CE	LYS	H	12	3.972	-12.525	-20.250	1.00	36.01	H	C
ATOM	6852	NZ	LYS	H	12	3.050	-11.711	-19.416	1.00	32.22	H	N
ATOM	6856	C	LYS	H	12	6.897	-17.036	-17.833	1.00	34.16	H	C
ATOM	6857	O	LYS	H	12	7.882	-17.740	-18.053	1.00	35.65	H	O
ATOM	6859	N	LYS	H	13	5.975	-17.329	-16.922	1.00	29.60	H	N
ATOM	6860	CA	LYS	H	13	6.024	-18.574	-16.158	1.00	33.14	H	C
ATOM	6862	CB	LYS	H	13	5.369	-18.375	-14.795	1.00	32.40	H	C
ATOM	6865	CG	LYS	H	13	5.956	-17.211	-14.021	1.00	34.58	H	C
ATOM	6868	CD	LYS	H	13	5.425	-17.159	-12.588	1.00	33.80	H	C
ATOM	6871	CE	LYS	H	13	6.438	-16.513	-11.647	1.00	34.88	H	C
ATOM	6874	NZ	LYS	H	13	7.718	-17.290	-11.602	1.00	30.90	H	N
ATOM	6878	C	LYS	H	13	5.308	-19.684	-16.926	1.00	32.01	H	C
ATOM	6879	O	LYS	H	13	4.576	-19.398	-17.875	1.00	24.84	H	O
ATOM	6881	N	PRO	H	14	5.510	-20.957	-16.524	1.00	36.35	H	N
ATOM	6882	CA	PRO	H	14	4.741	-22.022	-17.183	1.00	36.88	H	C
ATOM	6884	CB	PRO	H	14	5.432	-23.316	-16.707	1.00	39.73	H	C
ATOM	6887	CG	PRO	H	14	6.708	-22.869	-16.013	1.00	38.39	H	C
ATOM	6890	CD	PRO	H	14	6.415	-21.497	-15.495	1.00	36.38	H	C
ATOM	6893	C	PRO	H	14	3.264	-21.982	-16.765	1.00	38.06	H	C
ATOM	6894	O	PRO	H	14	2.958	-21.647	-15.617	1.00	30.24	H	O
ATOM	6895	N	GLY	H	15	2.361	-22.291	-17.696	1.00	37.19	H	N
ATOM	6896	CA	GLY	H	15	0.918	-22.159	-17.445	1.00	37.08	H	C
ATOM	6899	C	GLY	H	15	0.364	-20.762	-17.706	1.00	36.37	H	C
ATOM	6900	O	GLY	H	15	-0.838	-20.543	-17.573	1.00	33.44	H	O
ATOM	6902	N	ALA	H	16	1.235	-19.824	-18.087	1.00	33.93	H	N
ATOM	6903	CA	ALA	H	16	0.841	-18.450	-18.408	1.00	32.50	H	C
ATOM	6905	CB	ALA	H	16	1.901	-17.466	-17.900	1.00	27.00	H	C
ATOM	6909	C	ALA	H	16	0.635	-18.281	-19.917	1.00	31.31	H	C
ATOM	6910	O	ALA	H	16	0.903	-19.196	-20.689	1.00	32.02	H	O
ATOM	6912	N	SER	H	17	0.164	-17.103	-20.326	1.00	31.75	H	N
ATOM	6913	CA	SER	H	17	-0.026	-16.767	-21.744	1.00	32.59	H	C
ATOM	6915	CB	SER	H	17	-1.514	-16.487	-22.028	1.00	36.70	H	C

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ATOM	6918	OG	SER	H	17	-2.346	-17.540	-21.548	1.00	38.32	H O
ATOM	6920	C	SER	H	17	0.822	-15.545	-22.148	1.00	30.65	H C
ATOM	6921	O	SER	H	17	1.011	-14.626	-21.350	1.00	27.89	H O
ATOM	6923	N	VAL	H	18	1.324	-15.543	-23.384	1.00	25.46	H N
ATOM	6924	CA	VAL	H	18	2.073	-14.401	-23.936	1.00	27.10	H C
ATOM	6926	CB	VAL	H	18	3.575	-14.773	-24.210	1.00	29.42	H C
ATOM	6928	CG1	VAL	H	18	3.670	-15.920	-25.163	1.00	23.50	H C
ATOM	6932	CG2	VAL	H	18	4.361	-13.590	-24.759	1.00	28.90	H C
ATOM	6936	C	VAL	H	18	1.414	-13.943	-25.237	1.00	29.54	H C
ATOM	6937	O	VAL	H	18	0.820	-14.748	-25.952	1.00	29.96	H O
ATOM	6939	N	LYS	H	19	1.525	-12.652	-25.539	1.00	30.13	H N
ATOM	6940	CA	LYS	H	19	1.005	-12.100	-26.782	1.00	30.27	H C
ATOM	6942	CB	LYS	H	19	-0.249	-11.269	-26.512	1.00	35.10	H C
ATOM	6945	CG	LYS	H	19	-1.151	-11.030	-27.727	1.00	34.09	H C
ATOM	6948	CD	LYS	H	19	-2.403	-10.251	-27.282	1.00	35.85	H C
ATOM	6951	CE	LYS	H	19	-3.426	-10.039	-28.411	1.00	37.19	H C
ATOM	6954	NZ	LYS	H	19	-4.539	-9.080	-28.018	1.00	32.60	H N
ATOM	6958	C	LYS	H	19	2.098	-11.253	-27.434	1.00	31.79	H C
ATOM	6959	O	LYS	H	19	2.430	-10.177	-26.938	1.00	33.02	H O
ATOM	6961	N	VAL	H	20	2.661	-11.762	-28.533	1.00	26.35	H N
ATOM	6962	CA	VAL	H	20	3.730	-11.098	-29.259	1.00	27.87	H C
ATOM	6964	CB	VAL	H	20	4.776	-12.133	-29.702	1.00	31.05	H C
ATOM	6966	CG1	VAL	H	20	5.744	-11.543	-30.734	1.00	33.46	H C
ATOM	6970	CG2	VAL	H	20	5.511	-12.682	-28.481	1.00	29.03	H C
ATOM	6974	C	VAL	H	20	3.147	-10.397	-30.485	1.00	28.99	H C
ATOM	6975	O	VAL	H	20	2.319	-10.969	-31.176	1.00	28.18	H O
ATOM	6977	N	SER	H	21	3.582	-9.168	-30.761	1.00	28.88	H N
ATOM	6978	CA	SER	H	21	3.043	-8.398	-31.889	1.00	29.76	H C
ATOM	6980	CB	SER	H	21	2.573	-7.009	-31.427	1.00	35.28	H C
ATOM	6983	OG	SER	H	21	3.658	-6.157	-31.111	1.00	39.69	H O
ATOM	6985	C	SER	H	21	4.029	-8.277	-33.049	1.00	27.68	H C
ATOM	6986	O	SER	H	21	5.225	-8.480	-32.881	1.00	25.72	H O
ATOM	6988	N	CYS	H	22	3.502	-7.964	-34.229	1.00	28.49	H N
ATOM	6989	CA	CYS	H	22	4.304	-7.812	-35.441	1.00	27.06	H C
ATOM	6991	CB	CYS	H	22	4.354	-9.129	-36.211	1.00	27.55	H C
ATOM	6994	SG	CYS	H	22	5.200	-9.020	-37.835	1.00	25.45	H S
ATOM	6996	C	CYS	H	22	3.734	-6.653	-36.294	1.00	29.35	H C
ATOM	6997	O	CYS	H	22	2.932	-6.849	-37.203	1.00	29.28	H O
ATOM	6999	N	LYS	H	23	4.150	-5.437	-35.962	1.00	30.17	H N
ATOM	7000	CA	LYS	H	23	3.722	-4.235	-36.664	1.00	26.52	H C
ATOM	7002	CB	LYS	H	23	4.114	-2.998	-35.853	1.00	30.79	H C
ATOM	7005	CG	LYS	H	23	3.898	-1.647	-36.553	1.00	31.86	H C
ATOM	7008	CD	LYS	H	23	2.435	-1.286	-36.647	1.00	32.60	H C
ATOM	7011	CE	LYS	H	23	2.215	0.056	-37.352	1.00	31.86	H C
ATOM	7014	NZ	LYS	H	23	2.105	-0.122	-38.834	1.00	30.34	H N
ATOM	7018	C	LYS	H	23	4.346	-4.166	-38.039	1.00	24.60	H C
ATOM	7019	O	LYS	H	23	5.569	-4.167	-38.164	1.00	26.34	H O
ATOM	7021	N	ALA	H	24	3.507	-4.092	-39.069	1.00	25.08	H N
ATOM	7022	CA	ALA	H	24	3.975	-4.065	-40.455	1.00	24.99	H C
ATOM	7024	CB	ALA	H	24	3.108	-4.977	-41.320	1.00	23.97	H C
ATOM	7028	C	ALA	H	24	3.942	-2.648	-41.006	1.00	21.49	H C
ATOM	7029	O	ALA	H	24	3.073	-1.881	-40.647	1.00	19.24	H O
ATOM	7031	N	SER	H	25	4.891	-2.300	-41.875	1.00	22.75	H N
ATOM	7032	CA	SER	H	25	4.850	-0.998	-42.553	1.00	28.27	H C
ATOM	7034	CB	SER	H	25	5.467	0.116	-41.671	1.00	31.66	H C
ATOM	7037	OG	SER	H	25	6.819	-0.133	-41.321	1.00	34.02	H O
ATOM	7039	C	SER	H	25	5.468	-1.023	-43.947	1.00	29.64	H C
ATOM	7040	O	SER	H	25	6.185	-1.961	-44.325	1.00	28.38	H O
ATOM	7042	N	GLY	H	26	5.124	-0.016	-44.740	1.00	29.77	H N
ATOM	7043	CA	GLY	H	26	5.691	0.120	-46.075	1.00	30.39	H C
ATOM	7046	C	GLY	H	26	5.097	-0.799	-47.119	1.00	30.05	H C
ATOM	7047	O	GLY	H	26	5.678	-0.981	-48.192	1.00	30.89	H O
ATOM	7049	N	TYR	H	27	3.945	-1.385	-46.804	1.00	30.64	H N
ATOM	7050	CA	TYR	H	27	3.145	-2.141	-47.778	1.00	29.71	H C
ATOM	7052	CB	TYR	H	27	3.740	-3.544	-48.015	1.00	27.92	H C
ATOM	7055	CG	TYR	H	27	3.486	-4.516	-46.884	1.00	25.96	H C
ATOM	7056	CD1	TYR	H	27	2.454	-5.445	-46.950	1.00	28.29	H C
ATOM	7058	CE1	TYR	H	27	2.200	-6.326	-45.889	1.00	26.48	H C

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ATOM	7060	CZ	TYR	H	27	2.998	-6.284	-44.771	1.00	26.96	H	C
ATOM	7061	OH	TYR	H	27	2.793	-7.152	-43.721	1.00	28.81	H	O
ATOM	7063	CE2	TYR	H	27	4.016	-5.363	-44.687	1.00	28.69	H	C
ATOM	7065	CD2	TYR	H	27	4.264	-4.497	-45.742	1.00	27.47	H	C
ATOM	7067	C	TYR	H	27	1.704	-2.235	-47.246	1.00	28.80	H	C
ATOM	7068	O	TYR	H	27	1.456	-1.890	-46.087	1.00	23.70	H	O
ATOM	7070	N	THR	H	28	0.769	-2.704	-48.077	1.00	29.08	H	N
ATOM	7071	CA	THR	H	28	-0.626	-2.857	-47.655	1.00	26.82	H	C
ATOM	7073	CB	THR	H	28	-1.639	-2.833	-48.835	1.00	31.54	H	C
ATOM	7075	OG1	THR	H	28	-1.405	-1.692	-49.666	1.00	37.18	H	O
ATOM	7077	CG2	THR	H	28	-3.070	-2.745	-48.312	1.00	29.93	H	C
ATOM	7081	C	THR	H	28	-0.748	-4.165	-46.892	1.00	24.49	H	C
ATOM	7082	O	THR	H	28	-0.569	-5.248	-47.446	1.00	19.85	H	O
ATOM	7084	N	PHE	H	29	-1.035	-4.042	-45.602	1.00	21.30	H	N
ATOM	7085	CA	PHE	H	29	-1.041	-5.164	-44.673	1.00	20.29	H	C
ATOM	7087	CB	PHE	H	29	-1.545	-4.658	-43.308	1.00	17.82	H	C
ATOM	7090	CG	PHE	H	29	-1.486	-5.671	-42.192	1.00	16.83	H	C
ATOM	7091	CD1	PHE	H	29	-0.294	-6.274	-41.842	1.00	18.76	H	C
ATOM	7093	CE1	PHE	H	29	-0.237	-7.174	-40.798	1.00	18.63	H	C
ATOM	7095	CZ	PHE	H	29	-1.387	-7.456	-40.070	1.00	19.20	H	C
ATOM	7097	CE2	PHE	H	29	-2.568	-6.851	-40.396	1.00	16.13	H	C
ATOM	7099	CD2	PHE	H	29	-2.617	-5.954	-41.436	1.00	17.98	H	C
ATOM	7101	C	PHE	H	29	-1.927	-6.279	-45.195	1.00	22.64	H	C
ATOM	7102	O	PHE	H	29	-1.487	-7.408	-45.335	1.00	26.18	H	O
ATOM	7104	N	THR	H	30	-3.170	-5.936	-45.526	1.00	24.43	H	N
ATOM	7105	CA	THR	H	30	-4.206	-6.921	-45.885	1.00	22.13	H	C
ATOM	7107	CB	THR	H	30	-5.580	-6.268	-45.795	1.00	22.87	H	C
ATOM	7109	OG1	THR	H	30	-5.601	-5.111	-46.641	1.00	26.55	H	O
ATOM	7111	CG2	THR	H	30	-5.871	-5.856	-44.342	1.00	16.64	H	C
ATOM	7115	C	THR	H	30	-4.056	-7.567	-47.274	1.00	23.27	H	C
ATOM	7116	O	THR	H	30	-4.857	-8.415	-47.639	1.00	22.74	H	O
ATOM	7118	N	ASN	H	31	-3.018	-7.184	-48.019	1.00	21.42	H	N
ATOM	7119	CA	ASN	H	31	-2.749	-7.716	-49.344	1.00	23.38	H	C
ATOM	7121	CB	ASN	H	31	-2.259	-6.593	-50.267	1.00	25.98	H	C
ATOM	7124	CG	ASN	H	31	-3.378	-5.716	-50.778	1.00	28.74	H	C
ATOM	7125	OD1	ASN	H	31	-4.555	-5.857	-50.404	1.00	38.11	H	O
ATOM	7126	ND2	ASN	H	31	-3.017	-4.794	-51.637	1.00	31.93	H	N
ATOM	7129	C	ASN	H	31	-1.720	-8.848	-49.365	1.00	23.17	H	C
ATOM	7130	O	ASN	H	31	-1.523	-9.489	-50.412	1.00	23.34	H	O
ATOM	7132	N	TYR	H	32	-1.040	-9.047	-48.240	1.00	21.70	H	N
ATOM	7133	CA	TYR	H	32	-0.125	-10.163	-48.036	1.00	25.03	H	C
ATOM	7135	CB	TYR	H	32	1.323	-9.686	-47.940	1.00	25.90	H	C
ATOM	7138	CG	TYR	H	32	1.841	-8.978	-49.158	1.00	26.41	H	C
ATOM	7139	CD1	TYR	H	32	2.727	-9.594	-50.023	1.00	28.29	H	C
ATOM	7141	CE1	TYR	H	32	3.205	-8.939	-51.133	1.00	24.73	H	C
ATOM	7143	CZ	TYR	H	32	2.803	-7.638	-51.360	1.00	26.55	H	C
ATOM	7144	OH	TYR	H	32	3.249	-6.942	-52.449	1.00	31.83	H	O
ATOM	7146	CE2	TYR	H	32	1.944	-7.022	-50.518	1.00	23.42	H	C
ATOM	7148	CD2	TYR	H	32	1.469	-7.685	-49.427	1.00	25.06	H	C
ATOM	7150	C	TYR	H	32	-0.460	-10.801	-46.715	1.00	22.75	H	C
ATOM	7151	O	TYR	H	32	-0.673	-10.091	-45.753	1.00	23.83	H	O
ATOM	7153	N	GLY	H	33	-0.472	-12.129	-46.647	1.00	23.62	H	N
ATOM	7154	CA	GLY	H	33	-0.644	-12.815	-45.370	1.00	23.53	H	C
ATOM	7157	C	GLY	H	33	0.623	-12.766	-44.532	1.00	25.13	H	C
ATOM	7158	O	GLY	H	33	1.635	-12.194	-44.951	1.00	23.95	H	O
ATOM	7160	N	MET	H	34	0.566	-13.358	-43.341	1.00	26.29	H	N
ATOM	7161	CA	MET	H	34	1.709	-13.380	-42.426	1.00	24.74	H	C
ATOM	7163	CB	MET	H	34	1.425	-12.494	-41.207	1.00	27.32	H	C
ATOM	7166	CG	MET	H	34	2.668	-12.129	-40.366	1.00	25.13	H	C
ATOM	7169	SD	MET	H	34	3.708	-10.917	-41.189	1.00	25.78	H	S
ATOM	7170	CE	MET	H	34	2.842	-9.410	-40.934	1.00	22.76	H	C
ATOM	7174	C	MET	H	34	2.012	-14.806	-41.956	1.00	23.02	H	C
ATOM	7175	O	MET	H	34	1.120	-15.518	-41.524	1.00	15.73	H	O
ATOM	7177	N	ASN	H	35	3.271	-15.232	-42.041	1.00	24.66	H	N
ATOM	7178	CA	ASN	H	35	3.647	-16.491	-41.401	1.00	23.84	H	C
ATOM	7180	CB	ASN	H	35	4.590	-17.289	-42.278	1.00	21.17	H	C
ATOM	7183	CG	ASN	H	35	4.083	-17.434	-43.675	1.00	23.27	H	C
ATOM	7184	OD1	ASN	H	35	2.878	-17.536	-43.919	1.00	26.93	H	O

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ATOM	7185	ND2	ASN	H	35	4.989	-17.426	-44.607	1.00	16.57	H N
ATOM	7188	C	ASN	H	35	4.273	-16.268	-40.038	1.00	21.88	H C
ATOM	7189	O	ASN	H	35	4.813	-15.194	-39.748	1.00	20.56	H O
ATOM	7191	N	TRP	H	36	4.171	-17.292	-39.198	1.00	25.58	H N
ATOM	7192	CA	TRP	H	36	4.910	-17.350	-37.948	1.00	25.77	H C
ATOM	7194	CB	TRP	H	36	3.968	-17.429	-36.753	1.00	23.88	H C
ATOM	7197	CG	TRP	H	36	3.217	-16.165	-36.544	1.00	27.31	H C
ATOM	7198	CD1	TRP	H	36	1.997	-15.858	-37.056	1.00	26.05	H C
ATOM	7200	NE1	TRP	H	36	1.621	-14.608	-36.667	1.00	24.40	H N
ATOM	7202	CE2	TRP	H	36	2.591	-14.069	-35.865	1.00	24.27	H C
ATOM	7203	CD2	TRP	H	36	3.622	-15.025	-35.761	1.00	26.62	H C
ATOM	7204	CE3	TRP	H	36	4.756	-14.718	-34.993	1.00	27.01	H C
ATOM	7206	CZ3	TRP	H	36	4.809	-13.469	-34.343	1.00	26.89	H C
ATOM	7208	CH2	TRP	H	36	3.760	-12.542	-34.471	1.00	25.94	H C
ATOM	7210	CZ2	TRP	H	36	2.646	-12.823	-35.223	1.00	25.33	H C
ATOM	7212	C	TRP	H	36	5.852	-18.544	-37.972	1.00	22.47	H C
ATOM	7213	O	TRP	H	36	5.453	-19.649	-38.322	1.00	22.97	H O
ATOM	7215	N	VAL	H	37	7.100	-18.291	-37.596	1.00	24.90	H N
ATOM	7216	CA	VAL	H	37	8.165	-19.291	-37.549	1.00	26.36	H C
ATOM	7218	CB	VAL	H	37	9.235	-18.937	-38.593	1.00	24.69	H C
ATOM	7220	CG1	VAL	H	37	10.385	-19.927	-38.577	1.00	30.64	H C
ATOM	7224	CG2	VAL	H	37	8.603	-18.874	-39.985	1.00	22.71	H C
ATOM	7228	C	VAL	H	37	8.767	-19.296	-36.125	1.00	25.33	H C
ATOM	7229	O	VAL	H	37	9.062	-18.238	-35.600	1.00	17.47	H O
ATOM	7231	N	ARG	H	38	8.941	-20.459	-35.493	1.00	24.74	H N
ATOM	7232	CA	ARG	H	38	9.720	-20.515	-34.249	1.00	22.87	H C
ATOM	7234	CB	ARG	H	38	8.899	-21.121	-33.094	1.00	20.73	H C
ATOM	7237	CG	ARG	H	38	9.215	-22.518	-32.622	1.00	19.62	H C
ATOM	7240	CD	ARG	H	38	8.796	-22.683	-31.163	1.00	27.00	H C
ATOM	7243	NE	ARG	H	38	8.378	-24.049	-30.874	1.00	28.33	H N
ATOM	7245	CZ	ARG	H	38	9.041	-24.932	-30.126	1.00	35.42	H C
ATOM	7246	NH1	ARG	H	38	10.190	-24.633	-29.535	1.00	39.60	H N
ATOM	7249	NH2	ARG	H	38	8.526	-26.145	-29.956	1.00	38.05	H N
ATOM	7252	C	ARG	H	38	11.102	-21.177	-34.381	1.00	18.54	H C
ATOM	7253	O	ARG	H	38	11.282	-22.103	-35.127	1.00	26.96	H O
ATOM	7255	N	GLN	H	39	12.074	-20.651	-33.636	1.00	26.17	H N
ATOM	7256	CA	GLN	H	39	13.370	-21.276	-33.442	1.00	23.54	H C
ATOM	7258	CB	GLN	H	39	14.439	-20.463	-34.160	1.00	26.29	H C
ATOM	7261	CG	GLN	H	39	15.665	-21.253	-34.550	1.00	25.57	H C
ATOM	7264	CD	GLN	H	39	16.622	-20.431	-35.359	1.00	25.96	H C
ATOM	7265	OE1	GLN	H	39	16.725	-19.217	-35.166	1.00	25.15	H O
ATOM	7266	NE2	GLN	H	39	17.327	-21.077	-36.282	1.00	24.26	H N
ATOM	7269	C	GLN	H	39	13.707	-21.429	-31.937	1.00	26.24	H C
ATOM	7270	O	GLN	H	39	13.967	-20.459	-31.227	1.00	19.16	H O
ATOM	7272	N	ALA	H	40	13.683	-22.664	-31.454	1.00	28.95	H N
ATOM	7273	CA	ALA	H	40	14.158	-22.963	-30.120	1.00	27.06	H C
ATOM	7275	CB	ALA	H	40	13.771	-24.384	-29.720	1.00	27.79	H C
ATOM	7279	C	ALA	H	40	15.681	-22.779	-30.093	1.00	26.83	H C
ATOM	7280	O	ALA	H	40	16.332	-22.867	-31.148	1.00	28.37	H O
ATOM	7282	N	PRO	H	41	16.246	-22.479	-28.900	1.00	30.34	H N
ATOM	7283	CA	PRO	H	41	17.676	-22.244	-28.702	1.00	30.06	H C
ATOM	7285	CB	PRO	H	41	17.816	-22.188	-27.179	1.00	33.23	H C
ATOM	7288	CG	PRO	H	41	16.504	-21.696	-26.714	1.00	32.08	H C
ATOM	7291	CD	PRO	H	41	15.494	-22.288	-27.640	1.00	31.46	H C
ATOM	7294	C	PRO	H	41	18.572	-23.323	-29.284	1.00	31.23	H C
ATOM	7295	O	PRO	H	41	18.616	-24.442	-28.774	1.00	31.51	H O
ATOM	7296	N	GLY	H	42	19.270	-22.971	-30.357	1.00	28.45	H N
ATOM	7297	CA	GLY	H	42	20.223	-23.872	-30.978	1.00	31.51	H C
ATOM	7300	C	GLY	H	42	19.611	-24.771	-32.028	1.00	34.49	H C
ATOM	7301	O	GLY	H	42	20.324	-25.546	-32.656	1.00	34.19	H O
ATOM	7303	N	GLN	H	43	18.299	-24.637	-32.245	1.00	37.22	H N
ATOM	7304	CA	GLN	H	43	17.541	-25.573	-33.074	1.00	32.28	H C
ATOM	7306	CB	GLN	H	43	16.246	-25.976	-32.356	1.00	39.11	H C
ATOM	7309	CG	GLN	H	43	16.298	-27.359	-31.730	1.00	45.11	H C
ATOM	7312	CD	GLN	H	43	17.330	-27.455	-30.644	1.00	50.05	H C
ATOM	7313	OE1	GLN	H	43	17.215	-26.800	-29.608	1.00	54.70	H O
ATOM	7314	NE2	GLN	H	43	18.355	-28.271	-30.870	1.00	48.78	H N
ATOM	7317	C	GLN	H	43	17.237	-25.008	-34.459	1.00	30.10	H C

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ATOM	7318	O	GLN	H	43	17.662	-23.901	-34.796	1.00	34.64	H	O
ATOM	7320	N	GLY	H	44	16.534	-25.797	-35.270	1.00	27.70	H	N
ATOM	7321	CA	GLY	H	44	16.124	-25.380	-36.611	1.00	22.82	H	C
ATOM	7324	C	GLY	H	44	14.866	-24.515	-36.625	1.00	18.17	H	C
ATOM	7325	O	GLY	H	44	14.155	-24.384	-35.612	1.00	22.53	H	O
ATOM	7327	N	LEU	H	45	14.579	-23.974	-37.804	1.00	18.71	H	N
ATOM	7328	CA	LEU	H	45	13.366	-23.218	-38.087	1.00	20.81	H	C
ATOM	7330	CB	LEU	H	45	13.550	-22.443	-39.383	1.00	17.43	H	C
ATOM	7333	CG	LEU	H	45	14.633	-21.370	-39.276	1.00	19.51	H	C
ATOM	7335	CD1	LEU	H	45	14.816	-20.667	-40.590	1.00	13.98	H	C
ATOM	7339	CD2	LEU	H	45	14.293	-20.356	-38.172	1.00	11.48	H	C
ATOM	7343	C	LEU	H	45	12.117	-24.117	-38.163	1.00	24.73	H	C
ATOM	7344	O	LEU	H	45	12.117	-25.117	-38.881	1.00	18.23	H	O
ATOM	7346	N	GLU	H	46	11.077	-23.778	-37.389	1.00	25.74	H	N
ATOM	7347	CA	GLU	H	46	9.801	-24.499	-37.446	1.00	24.08	H	C
ATOM	7349	CB	GLU	H	46	9.391	-25.030	-36.066	1.00	31.02	H	C
ATOM	7352	CG	GLU	H	46	10.488	-25.709	-35.274	1.00	31.47	H	C
ATOM	7355	CD	GLU	H	46	9.956	-26.402	-34.045	1.00	31.32	H	C
ATOM	7356	OE1	GLU	H	46	9.406	-27.519	-34.197	1.00	31.09	H	O
ATOM	7357	OE2	GLU	H	46	10.083	-25.834	-32.926	1.00	35.35	H	O
ATOM	7358	C	GLU	H	46	8.709	-23.568	-37.976	1.00	21.65	H	C
ATOM	7359	O	GLU	H	46	8.481	-22.493	-37.429	1.00	17.40	H	O
ATOM	7361	N	TRP	H	47	8.036	-23.986	-39.046	1.00	23.74	H	N
ATOM	7362	CA	TRP	H	47	6.926	-23.223	-39.614	1.00	21.45	H	C
ATOM	7364	CB	TRP	H	47	6.734	-23.583	-41.080	1.00	21.53	H	C
ATOM	7367	CG	TRP	H	47	6.060	-22.532	-41.864	1.00	20.32	H	C
ATOM	7368	CD1	TRP	H	47	6.642	-21.464	-42.483	1.00	21.59	H	C
ATOM	7370	NE1	TRP	H	47	5.690	-20.724	-43.136	1.00	23.15	H	N
ATOM	7372	CE2	TRP	H	47	4.465	-21.299	-42.926	1.00	23.37	H	C
ATOM	7373	CD2	TRP	H	47	4.664	-22.447	-42.140	1.00	20.67	H	C
ATOM	7374	CE3	TRP	H	47	3.561	-23.229	-41.794	1.00	19.53	H	C
ATOM	7376	CZ3	TRP	H	47	2.326	-22.851	-42.247	1.00	22.17	H	C
ATOM	7378	CH2	TRP	H	47	2.162	-21.701	-43.038	1.00	20.89	H	C
ATOM	7380	CZ2	TRP	H	47	3.212	-20.911	-43.367	1.00	23.65	H	C
ATOM	7382	C	TRP	H	47	5.647	-23.494	-38.819	1.00	24.29	H	C
ATOM	7383	O	TRP	H	47	5.116	-24.610	-38.815	1.00	28.46	H	O
ATOM	7385	N	MET	H	48	5.162	-22.468	-38.137	1.00	23.62	H	N
ATOM	7386	CA	MET	H	48	4.093	-22.646	-37.159	1.00	21.38	H	C
ATOM	7388	CB	MET	H	48	4.180	-21.587	-36.074	1.00	22.58	H	C
ATOM	7391	CG	MET	H	48	5.488	-21.571	-35.333	1.00	19.63	H	C
ATOM	7394	SD	MET	H	48	5.577	-20.232	-34.132	1.00	20.72	H	S
ATOM	7395	CE	MET	H	48	3.984	-20.347	-33.283	1.00	12.31	H	C
ATOM	7399	C	MET	H	48	2.749	-22.554	-37.840	1.00	19.36	H	C
ATOM	7400	O	MET	H	48	1.873	-23.379	-37.608	1.00	25.05	H	O
ATOM	7402	N	GLY	H	49	2.589	-21.534	-38.680	1.00	21.93	H	N
ATOM	7403	CA	GLY	H	49	1.358	-21.359	-39.418	1.00	24.71	H	C
ATOM	7406	C	GLY	H	49	1.284	-20.098	-40.244	1.00	26.87	H	C
ATOM	7407	O	GLY	H	49	2.285	-19.406	-40.445	1.00	21.71	H	O
ATOM	7409	N	TRP	H	50	0.059	-19.801	-40.685	1.00	30.50	H	N
ATOM	7410	CA	TRP	H	50	-0.256	-18.638	-41.522	1.00	24.26	H	C
ATOM	7412	CB	TRP	H	50	-0.321	-19.057	-43.000	1.00	20.38	H	C
ATOM	7415	CG	TRP	H	50	-1.455	-18.532	-43.842	1.00	22.04	H	C
ATOM	7416	CD1	TRP	H	50	-2.777	-18.915	-43.775	1.00	25.29	H	C
ATOM	7418	NE1	TRP	H	50	-3.508	-18.258	-44.735	1.00	25.11	H	N
ATOM	7420	CE2	TRP	H	50	-2.678	-17.435	-45.450	1.00	19.79	H	C
ATOM	7421	CD2	TRP	H	50	-1.376	-17.579	-44.923	1.00	22.68	H	C
ATOM	7422	CE3	TRP	H	50	-0.338	-16.830	-45.484	1.00	22.50	H	C
ATOM	7424	CZ3	TRP	H	50	-0.624	-15.987	-46.529	1.00	22.77	H	C
ATOM	7426	CH2	TRP	H	50	-1.936	-15.850	-47.022	1.00	21.95	H	C
ATOM	7428	CZ2	TRP	H	50	-2.968	-16.566	-46.492	1.00	19.52	H	C
ATOM	7430	C	TRP	H	50	-1.560	-17.994	-41.071	1.00	18.83	H	C
ATOM	7431	O	TRP	H	50	-2.474	-18.678	-40.644	1.00	22.40	H	O
ATOM	7433	N	ILE	H	51	-1.615	-16.667	-41.147	1.00	17.04	H	N
ATOM	7434	CA	ILE	H	51	-2.874	-15.956	-40.991	1.00	19.17	H	C
ATOM	7436	CB	ILE	H	51	-2.930	-15.039	-39.739	1.00	16.35	H	C
ATOM	7438	CG1	ILE	H	51	-4.363	-14.472	-39.557	1.00	18.38	H	C
ATOM	7441	CD1	ILE	H	51	-4.785	-14.220	-38.133	1.00	13.32	H	C
ATOM	7445	CG2	ILE	H	51	-1.892	-13.920	-39.855	1.00	13.56	H	C

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ATOM	7449	C	ILE	H	51	-3.078	-15.149	-42.253	1.00	18.45	H	C
ATOM	7450	O	ILE	H	51	-2.139	-14.555	-42.795	1.00	18.62	H	O
ATOM	7452	N	ASN	H	52	-4.315	-15.177	-42.728	1.00	22.79	H	N
ATOM	7453	CA	ASN	H	52	-4.746	-14.367	-43.838	1.00	22.85	H	C
ATOM	7455	CB	ASN	H	52	-5.982	-14.997	-44.493	1.00	25.31	H	C
ATOM	7458	CG	ASN	H	52	-6.297	-14.392	-45.847	1.00	24.08	H	C
ATOM	7459	OD1	ASN	H	52	-6.431	-13.179	-45.972	1.00	24.50	H	O
ATOM	7460	ND2	ASN	H	52	-6.438	-15.239	-46.863	1.00	22.24	H	N
ATOM	7463	C	ASN	H	52	-5.063	-12.989	-43.285	1.00	22.32	H	C
ATOM	7464	O	ASN	H	52	-6.002	-12.816	-42.500	1.00	18.42	H	O
ATOM	7466	N	THR	H	53	-4.274	-12.000	-43.673	1.00	20.16	H	N
ATOM	7467	CA	THR	H	53	-4.508	-10.639	-43.188	1.00	20.19	H	C
ATOM	7469	CB	THR	H	53	-3.327	-9.761	-43.530	1.00	17.32	H	C
ATOM	7471	OG1	THR	H	53	-3.031	-9.924	-44.915	1.00	15.86	H	O
ATOM	7473	CG2	THR	H	53	-2.117	-10.177	-42.691	1.00	16.93	H	C
ATOM	7477	C	THR	H	53	-5.805	-10.005	-43.728	1.00	22.94	H	C
ATOM	7478	O	THR	H	53	-6.332	-9.073	-43.124	1.00	20.07	H	O
ATOM	7480	N	TYR	H	54	-6.313	-10.530	-44.846	1.00	25.39	H	N
ATOM	7481	CA	TYR	H	54	-7.495	-9.993	-45.518	1.00	25.81	H	C
ATOM	7483	CB	TYR	H	54	-7.450	-10.262	-47.037	1.00	20.45	H	C
ATOM	7486	CG	TYR	H	54	-8.396	-9.359	-47.817	1.00	23.67	H	C
ATOM	7487	CD1	TYR	H	54	-7.922	-8.239	-48.510	1.00	21.14	H	C
ATOM	7489	CE1	TYR	H	54	-8.790	-7.398	-49.198	1.00	21.54	H	C
ATOM	7491	CZ	TYR	H	54	-10.153	-7.669	-49.186	1.00	20.89	H	C
ATOM	7492	OH	TYR	H	54	-11.023	-6.860	-49.876	1.00	20.50	H	O
ATOM	7494	CE2	TYR	H	54	-10.643	-8.755	-48.492	1.00	19.32	H	C
ATOM	7496	CD2	TYR	H	54	-9.779	-9.584	-47.804	1.00	21.20	H	C
ATOM	7498	C	TYR	H	54	-8.786	-10.573	-44.964	1.00	24.04	H	C
ATOM	7499	O	TYR	H	54	-9.732	-9.832	-44.705	1.00	29.33	H	O
ATOM	7501	N	THR	H	55	-8.827	-11.895	-44.813	1.00	24.83	H	N
ATOM	7502	CA	THR	H	55	-10.036	-12.597	-44.372	1.00	25.12	H	C
ATOM	7504	CB	THR	H	55	-10.283	-13.853	-45.227	1.00	23.67	H	C
ATOM	7506	OG1	THR	H	55	-9.232	-14.781	-44.984	1.00	24.23	H	O
ATOM	7508	CG2	THR	H	55	-10.334	-13.525	-46.725	1.00	19.80	H	C
ATOM	7512	C	THR	H	55	-9.985	-13.060	-42.914	1.00	24.11	H	C
ATOM	7513	O	THR	H	55	-11.027	-13.378	-42.332	1.00	18.81	H	O
ATOM	7515	N	GLY	H	56	-8.788	-13.142	-42.333	1.00	25.62	H	N
ATOM	7516	CA	GLY	H	56	-8.631	-13.592	-40.939	1.00	26.35	H	C
ATOM	7519	C	GLY	H	56	-8.577	-15.099	-40.739	1.00	26.20	H	C
ATOM	7520	O	GLY	H	56	-8.577	-15.589	-39.599	1.00	21.98	H	O
ATOM	7522	N	GLU	H	57	-8.523	-15.840	-41.843	1.00	26.88	H	N
ATOM	7523	CA	GLU	H	57	-8.382	-17.294	-41.801	1.00	30.37	H	C
ATOM	7525	CB	GLU	H	57	-8.704	-17.895	-43.180	1.00	36.01	H	C
ATOM	7528	CG	GLU	H	57	-10.131	-17.667	-43.698	1.00	36.91	H	C
ATOM	7531	CD	GLU	H	57	-10.236	-17.915	-45.207	1.00	37.68	H	C
ATOM	7532	OE1	GLU	H	57	-9.777	-17.056	-45.987	1.00	38.05	H	O
ATOM	7533	OE2	GLU	H	57	-10.767	-18.971	-45.619	1.00	40.24	H	O
ATOM	7534	C	GLU	H	57	-6.958	-17.733	-41.375	1.00	31.10	H	C
ATOM	7535	O	GLU	H	57	-5.942	-17.099	-41.723	1.00	27.03	H	O
ATOM	7537	N	THR	H	58	-6.884	-18.851	-40.660	1.00	28.13	H	N
ATOM	7538	CA	THR	H	58	-5.612	-19.350	-40.178	1.00	28.33	H	C
ATOM	7540	CB	THR	H	58	-5.493	-19.084	-38.675	1.00	25.12	H	C
ATOM	7542	OG1	THR	H	58	-6.554	-19.753	-37.993	1.00	25.52	H	O
ATOM	7544	CG2	THR	H	58	-5.579	-17.585	-38.392	1.00	19.47	H	C
ATOM	7548	C	THR	H	58	-5.444	-20.844	-40.436	1.00	29.10	H	C
ATOM	7549	O	THR	H	58	-6.372	-21.623	-40.211	1.00	34.54	H	O
ATOM	7551	N	THR	H	59	-4.260	-21.222	-40.911	1.00	24.53	H	N
ATOM	7552	CA	THR	H	59	-3.818	-22.621	-40.964	1.00	26.92	H	C
ATOM	7554	CB	THR	H	59	-3.363	-23.038	-42.382	1.00	24.01	H	C
ATOM	7556	OG1	THR	H	59	-4.394	-22.739	-43.322	1.00	27.05	H	O
ATOM	7558	CG2	THR	H	59	-3.086	-24.520	-42.446	1.00	18.89	H	C
ATOM	7562	C	THR	H	59	-2.622	-22.820	-40.042	1.00	29.23	H	C
ATOM	7563	O	THR	H	59	-1.672	-22.039	-40.082	1.00	32.74	H	O
ATOM	7565	N	TYR	H	60	-2.651	-23.879	-39.236	1.00	30.77	H	N
ATOM	7566	CA	TYR	H	60	-1.501	-24.235	-38.384	1.00	29.69	H	C
ATOM	7568	CB	TYR	H	60	-1.952	-24.357	-36.932	1.00	26.89	H	C
ATOM	7571	CG	TYR	H	60	-2.638	-23.123	-36.404	1.00	27.41	H	C
ATOM	7572	CD1	TYR	H	60	-1.935	-22.161	-35.692	1.00	26.28	H	C

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ATOM	7574	CE1	TYR	H	60	-2.578	-21.029	-35.194	1.00	26.66	H	C
ATOM	7576	CZ	TYR	H	60	-3.929	-20.843	-35.432	1.00	26.31	H	C
ATOM	7577	OH	TYR	H	60	-4.578	-19.715	-34.959	1.00	25.99	H	O
ATOM	7579	CE2	TYR	H	60	-4.643	-21.794	-36.138	1.00	26.28	H	C
ATOM	7581	CD2	TYR	H	60	-4.004	-22.922	-36.610	1.00	26.38	H	C
ATOM	7583	C	TYR	H	60	-0.836	-25.541	-38.813	1.00	24.94	H	C
ATOM	7584	O	TYR	H	60	-1.515	-26.456	-39.251	1.00	28.65	H	O
ATOM	7586	N	ALA	H	61	0.488	-25.626	-38.685	1.00	22.23	H	N
ATOM	7587	CA	ALA	H	61	1.179	-26.908	-38.813	1.00	23.97	H	C
ATOM	7589	CB	ALA	H	61	2.695	-26.722	-38.848	1.00	20.02	H	C
ATOM	7593	C	ALA	H	61	0.800	-27.778	-37.634	1.00	24.18	H	C
ATOM	7594	O	ALA	H	61	0.682	-27.272	-36.529	1.00	22.83	H	O
ATOM	7596	N	ASP	H	62	0.662	-29.083	-37.868	1.00	29.72	H	N
ATOM	7597	CA	ASP	H	62	0.184	-30.034	-36.853	1.00	30.55	H	C
ATOM	7599	CB	ASP	H	62	0.423	-31.493	-37.279	1.00	36.78	H	C
ATOM	7602	CG	ASP	H	62	-0.337	-31.882	-38.542	1.00	42.66	H	C
ATOM	7603	OD1	ASP	H	62	0.086	-32.854	-39.206	1.00	48.86	H	O
ATOM	7604	OD2	ASP	H	62	-1.341	-31.223	-38.876	1.00	45.60	H	O
ATOM	7605	C	ASP	H	62	0.799	-29.828	-35.473	1.00	33.39	H	C
ATOM	7606	O	ASP	H	62	0.086	-29.844	-34.475	1.00	26.25	H	O
ATOM	7608	N	ASP	H	63	2.114	-29.630	-35.412	1.00	34.21	H	N
ATOM	7609	CA	ASP	H	63	2.799	-29.439	-34.114	1.00	33.08	H	C
ATOM	7611	CB	ASP	H	63	4.321	-29.312	-34.312	1.00	36.54	H	C
ATOM	7614	CG	ASP	H	63	4.973	-30.615	-34.723	1.00	39.40	H	C
ATOM	7615	OD1	ASP	H	63	4.320	-31.677	-34.627	1.00	42.54	H	O
ATOM	7616	OD2	ASP	H	63	6.153	-30.574	-35.142	1.00	43.14	H	O
ATOM	7617	C	ASP	H	63	2.320	-28.218	-33.342	1.00	29.06	H	C
ATOM	7618	O	ASP	H	63	2.589	-28.117	-32.142	1.00	35.08	H	O
ATOM	7620	N	PHE	H	64	1.651	-27.283	-34.025	1.00	24.95	H	N
ATOM	7621	CA	PHE	H	64	1.203	-26.025	-33.411	1.00	29.59	H	C
ATOM	7623	CB	PHE	H	64	1.857	-24.841	-34.122	1.00	25.55	H	C
ATOM	7626	CG	PHE	H	64	3.332	-24.797	-33.911	1.00	26.64	H	C
ATOM	7627	CD1	PHE	H	64	3.843	-24.285	-32.734	1.00	25.89	H	C
ATOM	7629	CE1	PHE	H	64	5.188	-24.286	-32.502	1.00	28.03	H	C
ATOM	7631	CZ	PHE	H	64	6.056	-24.813	-33.454	1.00	22.34	H	C
ATOM	7633	CE2	PHE	H	64	5.561	-25.349	-34.611	1.00	27.49	H	C
ATOM	7635	CD2	PHE	H	64	4.200	-25.353	-34.833	1.00	26.85	H	C
ATOM	7637	C	PHE	H	64	-0.308	-25.850	-33.326	1.00	31.84	H	C
ATOM	7638	O	PHE	H	64	-0.800	-24.728	-33.241	1.00	32.77	H	O
ATOM	7640	N	LYS	H	65	-1.027	-26.970	-33.304	1.00	34.72	H	N
ATOM	7641	CA	LYS	H	65	-2.479	-26.977	-33.141	1.00	33.85	H	C
ATOM	7643	CB	LYS	H	65	-3.103	-28.113	-33.966	1.00	34.04	H	C
ATOM	7646	CG	LYS	H	65	-3.149	-27.841	-35.455	1.00	32.54	H	C
ATOM	7649	CD	LYS	H	65	-3.572	-29.075	-36.250	1.00	34.58	H	C
ATOM	7652	CE	LYS	H	65	-3.723	-28.750	-37.749	1.00	36.60	H	C
ATOM	7655	NZ	LYS	H	65	-3.539	-29.929	-38.656	1.00	33.54	H	N
ATOM	7659	C	LYS	H	65	-2.827	-27.163	-31.671	1.00	34.99	H	C
ATOM	7660	O	LYS	H	65	-2.423	-28.147	-31.047	1.00	35.09	H	O
ATOM	7662	N	GLY	H	66	-3.576	-26.219	-31.115	1.00	35.89	H	N
ATOM	7663	CA	GLY	H	66	-4.011	-26.318	-29.733	1.00	35.07	H	C
ATOM	7666	C	GLY	H	66	-3.775	-25.042	-28.956	1.00	34.11	H	C
ATOM	7667	O	GLY	H	66	-4.719	-24.303	-28.658	1.00	31.70	H	O
ATOM	7669	N	ARG	H	67	-2.511	-24.771	-28.646	1.00	33.37	H	N
ATOM	7670	CA	ARG	H	67	-2.172	-23.708	-27.693	1.00	34.72	H	C
ATOM	7672	CB	ARG	H	67	-1.004	-24.161	-26.816	1.00	35.74	H	C
ATOM	7675	CG	ARG	H	67	-1.395	-25.295	-25.870	1.00	38.35	H	C
ATOM	7678	CD	ARG	H	67	-0.288	-25.688	-24.902	1.00	38.45	H	C
ATOM	7681	NE	ARG	H	67	0.951	-26.079	-25.581	1.00	38.91	H	N
ATOM	7683	CZ	ARG	H	67	2.049	-25.327	-25.670	1.00	39.41	H	C
ATOM	7684	NH1	ARG	H	67	2.096	-24.111	-25.122	1.00	38.90	H	N
ATOM	7687	NH2	ARG	H	67	3.114	-25.801	-26.310	1.00	39.58	H	N
ATOM	7690	C	ARG	H	67	-1.869	-22.371	-28.354	1.00	32.06	H	C
ATOM	7691	O	ARG	H	67	-1.681	-21.363	-27.672	1.00	30.72	H	O
ATOM	7693	N	PHE	H	68	-1.855	-22.363	-29.682	1.00	31.26	H	N
ATOM	7694	CA	PHE	H	68	-1.384	-21.219	-30.450	1.00	33.08	H	C
ATOM	7696	CB	PHE	H	68	-0.285	-21.659	-31.418	1.00	31.68	H	C
ATOM	7699	CG	PHE	H	68	0.874	-22.365	-30.754	1.00	32.76	H	C
ATOM	7700	CD1	PHE	H	68	2.080	-21.709	-30.547	1.00	34.03	H	C

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ATOM	7702	CE1	PHE	H	68	3.148	-22.356	-29.931	1.00	33.41	H	C
ATOM	7704	CZ	PHE	H	68	3.019	-23.672	-29.523	1.00	30.62	H	C
ATOM	7706	CE2	PHE	H	68	1.825	-24.339	-29.727	1.00	33.43	H	C
ATOM	7708	CD2	PHE	H	68	0.759	-23.685	-30.341	1.00	33.54	H	C
ATOM	7710	C	PHE	H	68	-2.528	-20.585	-31.236	1.00	34.14	H	C
ATOM	7711	O	PHE	H	68	-3.262	-21.282	-31.949	1.00	36.64	H	O
ATOM	7713	N	VAL	H	69	-2.654	-19.263	-31.118	1.00	28.53	H	N
ATOM	7714	CA	VAL	H	69	-3.685	-18.512	-31.808	1.00	27.57	H	C
ATOM	7716	CB	VAL	H	69	-4.795	-18.102	-30.815	1.00	29.40	H	C
ATOM	7718	CG1	VAL	H	69	-5.781	-17.138	-31.453	1.00	29.42	H	C
ATOM	7722	CG2	VAL	H	69	-5.506	-19.334	-30.301	1.00	26.52	H	C
ATOM	7726	C	VAL	H	69	-3.084	-17.271	-32.462	1.00	28.71	H	C
ATOM	7727	O	VAL	H	69	-2.507	-16.431	-31.782	1.00	37.87	H	O
ATOM	7729	N	PHE	H	70	-3.214	-17.164	-33.779	1.00	20.00	H	N
ATOM	7730	CA	PHE	H	70	-2.905	-15.925	-34.502	1.00	23.65	H	C
ATOM	7732	CB	PHE	H	70	-2.488	-16.195	-35.968	1.00	21.54	H	C
ATOM	7735	CG	PHE	H	70	-1.537	-17.309	-36.134	1.00	25.31	H	C
ATOM	7736	CD1	PHE	H	70	-0.509	-17.520	-35.219	1.00	24.70	H	C
ATOM	7738	CE1	PHE	H	70	0.384	-18.565	-35.402	1.00	24.33	H	C
ATOM	7740	CZ	PHE	H	70	0.252	-19.393	-36.502	1.00	21.33	H	C
ATOM	7742	CE2	PHE	H	70	-0.762	-19.180	-37.418	1.00	21.21	H	C
ATOM	7744	CD2	PHE	H	70	-1.631	-18.148	-37.250	1.00	26.15	H	C
ATOM	7746	C	PHE	H	70	-4.132	-15.029	-34.530	1.00	26.86	H	C
ATOM	7747	O	PHE	H	70	-5.247	-15.520	-34.715	1.00	30.76	H	O
ATOM	7749	N	SER	H	71	-3.922	-13.724	-34.344	1.00	29.42	H	N
ATOM	7750	CA	SER	H	71	-4.977	-12.726	-34.425	1.00	24.86	H	C
ATOM	7752	CB	SER	H	71	-5.467	-12.338	-33.030	1.00	29.42	H	C
ATOM	7755	OG	SER	H	71	-4.532	-11.555	-32.302	1.00	27.89	H	O
ATOM	7757	C	SER	H	71	-4.481	-11.512	-35.206	1.00	26.32	H	C
ATOM	7758	O	SER	H	71	-3.320	-11.453	-35.624	1.00	27.03	H	O
ATOM	7760	N	LEU	H	72	-5.370	-10.553	-35.439	1.00	27.76	H	N
ATOM	7761	CA	LEU	H	72	-5.011	-9.349	-36.187	1.00	26.98	H	C
ATOM	7763	CB	LEU	H	72	-5.560	-9.412	-37.613	1.00	25.65	H	C
ATOM	7766	CG	LEU	H	72	-5.125	-10.492	-38.591	1.00	26.00	H	C
ATOM	7768	CD1	LEU	H	72	-6.125	-10.581	-39.730	1.00	25.54	H	C
ATOM	7772	CD2	LEU	H	72	-3.712	-10.247	-39.131	1.00	25.52	H	C
ATOM	7776	C	LEU	H	72	-5.563	-8.093	-35.534	1.00	29.78	H	C
ATOM	7777	O	LEU	H	72	-6.494	-8.151	-34.731	1.00	30.42	H	O
ATOM	7779	N	ASP	H	73	-4.951	-6.961	-35.870	1.00	29.04	H	N
ATOM	7780	CA	ASP	H	73	-5.595	-5.661	-35.752	1.00	26.85	H	C
ATOM	7782	CB	ASP	H	73	-5.189	-4.901	-34.474	1.00	26.53	H	C
ATOM	7785	CG	ASP	H	73	-6.038	-3.652	-34.242	1.00	29.22	H	C
ATOM	7786	OD1	ASP	H	73	-6.648	-3.168	-35.225	1.00	24.50	H	O
ATOM	7787	OD2	ASP	H	73	-6.102	-3.156	-33.084	1.00	28.46	H	O
ATOM	7788	C	ASP	H	73	-5.227	-4.903	-37.028	1.00	25.01	H	C
ATOM	7789	O	ASP	H	73	-4.163	-4.288	-37.137	1.00	26.61	H	O
ATOM	7791	N	THR	H	74	-6.116	-5.013	-38.005	1.00	26.98	H	N
ATOM	7792	CA	THR	H	74	-5.948	-4.412	-39.328	1.00	31.65	H	C
ATOM	7794	CB	THR	H	74	-7.112	-4.848	-40.263	1.00	33.32	H	C
ATOM	7796	OG1	THR	H	74	-6.599	-5.709	-41.287	1.00	35.29	H	O
ATOM	7798	CG2	THR	H	74	-7.801	-3.658	-40.902	1.00	37.45	H	C
ATOM	7802	C	THR	H	74	-5.833	-2.882	-39.291	1.00	34.76	H	C
ATOM	7803	O	THR	H	74	-5.165	-2.291	-40.141	1.00	35.38	H	O
ATOM	7805	N	SER	H	75	-6.468	-2.259	-38.296	1.00	32.35	H	N
ATOM	7806	CA	SER	H	75	-6.448	-0.804	-38.128	1.00	33.79	H	C
ATOM	7808	CB	SER	H	75	-7.464	-0.394	-37.063	1.00	34.77	H	C
ATOM	7811	OG	SER	H	75	-7.111	-0.944	-35.807	1.00	34.63	H	O
ATOM	7813	C	SER	H	75	-5.081	-0.238	-37.737	1.00	34.99	H	C
ATOM	7814	O	SER	H	75	-4.862	0.967	-37.838	1.00	34.06	H	O
ATOM	7816	N	VAL	H	76	-4.181	-1.099	-37.259	1.00	36.77	H	N
ATOM	7817	CA	VAL	H	76	-2.827	-0.687	-36.896	1.00	32.83	H	C
ATOM	7819	CB	VAL	H	76	-2.678	-0.593	-35.329	1.00	34.68	H	C
ATOM	7821	CG1	VAL	H	76	-2.899	-1.946	-34.657	1.00	30.49	H	C
ATOM	7825	CG2	VAL	H	76	-1.334	0.012	-34.933	1.00	36.70	H	C
ATOM	7829	C	VAL	H	76	-1.781	-1.598	-37.554	1.00	34.93	H	C
ATOM	7830	O	VAL	H	76	-0.633	-1.661	-37.106	1.00	35.98	H	O
ATOM	7832	N	SER	H	77	-2.186	-2.269	-38.640	1.00	30.14	H	N
ATOM	7833	CA	SER	H	77	-1.327	-3.139	-39.441	1.00	29.12	H	C

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ATOM	7835	CB	SER	H	77	-0.485	-2.307	-40.421	1.00	30.46	H	C
ATOM	7838	OG	SER	H	77	-1.313	-1.711	-41.407	1.00	29.38	H	O
ATOM	7840	C	SER	H	77	-0.444	-4.092	-38.620	1.00	24.19	H	C
ATOM	7841	O	SER	H	77	0.749	-4.217	-38.877	1.00	30.85	H	O
ATOM	7843	N	THR	H	78	-1.066	-4.799	-37.679	1.00	22.85	H	N
ATOM	7844	CA	THR	H	78	-0.361	-5.623	-36.707	1.00	23.30	H	C
ATOM	7846	CB	THR	H	78	-0.455	-4.983	-35.321	1.00	25.09	H	C
ATOM	7848	OG1	THR	H	78	0.059	-3.648	-35.389	1.00	23.52	H	O
ATOM	7850	CG2	THR	H	78	0.330	-5.787	-34.276	1.00	21.29	H	C
ATOM	7854	C	THR	H	78	-0.885	-7.065	-36.636	1.00	24.37	H	C
ATOM	7855	O	THR	H	78	-2.083	-7.298	-36.529	1.00	25.74	H	O
ATOM	7857	N	ALA	H	79	0.042	-8.022	-36.702	1.00	26.34	H	N
ATOM	7858	CA	ALA	H	79	-0.245	-9.440	-36.473	1.00	23.73	H	C
ATOM	7860	CB	ALA	H	79	0.473	-10.276	-37.484	1.00	22.08	H	C
ATOM	7864	C	ALA	H	79	0.175	-9.831	-35.053	1.00	20.53	H	C
ATOM	7865	O	ALA	H	79	1.174	-9.343	-34.544	1.00	22.24	H	O
ATOM	7867	N	TYR	H	80	-0.614	-10.684	-34.408	1.00	23.67	H	N
ATOM	7868	CA	TYR	H	80	-0.349	-11.111	-33.038	1.00	25.45	H	C
ATOM	7870	CB	TYR	H	80	-1.427	-10.602	-32.062	1.00	29.91	H	C
ATOM	7873	CG	TYR	H	80	-1.599	-9.099	-32.054	1.00	30.58	H	C
ATOM	7874	CD1	TYR	H	80	-0.927	-8.298	-31.124	1.00	30.74	H	C
ATOM	7876	CE1	TYR	H	80	-1.082	-6.911	-31.126	1.00	30.71	H	C
ATOM	7878	CZ	TYR	H	80	-1.915	-6.318	-32.065	1.00	30.99	H	C
ATOM	7879	OH	TYR	H	80	-2.077	-4.952	-32.094	1.00	31.41	H	O
ATOM	7881	CE2	TYR	H	80	-2.584	-7.098	-32.996	1.00	31.37	H	C
ATOM	7883	CD2	TYR	H	80	-2.428	-8.474	-32.981	1.00	30.50	H	C
ATOM	7885	C	TYR	H	80	-0.284	-12.629	-32.960	1.00	25.34	H	C
ATOM	7886	O	TYR	H	80	-1.025	-13.324	-33.646	1.00	27.64	H	O
ATOM	7888	N	LEU	H	81	0.637	-13.126	-32.133	1.00	27.47	H	N
ATOM	7889	CA	LEU	H	81	0.715	-14.532	-31.751	1.00	23.83	H	C
ATOM	7891	CB	LEU	H	81	2.101	-15.098	-32.060	1.00	26.44	H	C
ATOM	7894	CG	LEU	H	81	2.456	-16.504	-31.551	1.00	24.85	H	C
ATOM	7896	CD1	LEU	H	81	1.578	-17.592	-32.203	1.00	16.74	H	C
ATOM	7900	CD2	LEU	H	81	3.931	-16.758	-31.775	1.00	18.19	H	C
ATOM	7904	C	LEU	H	81	0.440	-14.576	-30.264	1.00	28.02	H	C
ATOM	7905	O	LEU	H	81	1.071	-13.867	-29.489	1.00	25.39	H	O
ATOM	7907	N	GLN	H	82	-0.547	-15.374	-29.884	1.00	29.78	H	N
ATOM	7908	CA	GLN	H	82	-0.836	-15.643	-28.501	1.00	28.43	H	C
ATOM	7910	CB	GLN	H	82	-2.273	-15.248	-28.175	1.00	30.83	H	C
ATOM	7913	CG	GLN	H	82	-2.696	-15.577	-26.751	1.00	34.26	H	C
ATOM	7916	CD	GLN	H	82	-3.715	-14.612	-26.192	1.00	35.39	H	C
ATOM	7917	OE1	GLN	H	82	-4.453	-13.955	-26.936	1.00	38.91	H	O
ATOM	7918	NE2	GLN	H	82	-3.751	-14.506	-24.868	1.00	37.56	H	N
ATOM	7921	C	GLN	H	82	-0.603	-17.126	-28.267	1.00	28.40	H	C
ATOM	7922	O	GLN	H	82	-1.162	-17.960	-28.976	1.00	33.56	H	O
ATOM	7924	N	ILE	H	83	0.263	-17.441	-27.303	1.00	27.74	H	N
ATOM	7925	CA	ILE	H	83	0.572	-18.820	-26.920	1.00	27.63	H	C
ATOM	7927	CB	ILE	H	83	2.095	-19.071	-26.851	1.00	24.57	H	C
ATOM	7929	CG1	ILE	H	83	2.766	-18.679	-28.175	1.00	24.23	H	C
ATOM	7932	CD1	ILE	H	83	4.277	-18.740	-28.147	1.00	26.68	H	C
ATOM	7936	CG2	ILE	H	83	2.376	-20.521	-26.507	1.00	24.12	H	C
ATOM	7940	C	ILE	H	83	-0.028	-19.006	-25.541	1.00	29.51	H	C
ATOM	7941	O	ILE	H	83	0.241	-18.194	-24.657	1.00	33.13	H	O
ATOM	7943	N	SER	H	84	-0.844	-20.051	-25.364	1.00	30.58	H	N
ATOM	7944	CA	SER	H	84	-1.512	-20.334	-24.080	1.00	32.14	H	C
ATOM	7946	CB	SER	H	84	-3.016	-20.527	-24.284	1.00	32.52	H	C
ATOM	7949	OG	SER	H	84	-3.659	-19.271	-24.366	1.00	36.26	H	O
ATOM	7951	C	SER	H	84	-0.938	-21.551	-23.364	1.00	30.87	H	C
ATOM	7952	O	SER	H	84	-0.371	-22.435	-23.992	1.00	31.03	H	O
ATOM	7954	N	SER	H	85	-1.130	-21.582	-22.044	1.00	34.35	H	N
ATOM	7955	CA	SER	H	85	-0.602	-22.637	-21.159	1.00	34.09	H	C
ATOM	7957	CB	SER	H	85	-1.422	-23.925	-21.297	1.00	34.24	H	C
ATOM	7960	OG	SER	H	85	-2.705	-23.727	-20.732	1.00	37.26	H	O
ATOM	7962	C	SER	H	85	0.895	-22.898	-21.375	1.00	28.97	H	C
ATOM	7963	O	SER	H	85	1.308	-24.040	-21.589	1.00	30.16	H	O
ATOM	7965	N	LEU	H	86	1.681	-21.823	-21.260	1.00	22.60	H	N
ATOM	7966	CA	LEU	H	86	3.116	-21.814	-21.578	1.00	32.94	H	C
ATOM	7968	CB	LEU	H	86	3.754	-20.469	-21.176	1.00	29.80	H	C

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ATOM	7971	CG	LEU	H	86	3.938	-19.446	-22.312	1.00	28.47	H	C
ATOM	7973	CD1	LEU	H	86	2.980	-19.686	-23.468	1.00	31.08	H	C
ATOM	7977	CD2	LEU	H	86	3.818	-18.012	-21.827	1.00	28.39	H	C
ATOM	7981	C	LEU	H	86	3.911	-22.967	-20.976	1.00	34.29	H	C
ATOM	7982	O	LEU	H	86	3.667	-23.368	-19.848	1.00	25.73	H	O
ATOM	7984	N	LYS	H	87	4.850	-23.500	-21.757	1.00	32.06	H	N
ATOM	7985	CA	LYS	H	87	5.719	-24.585	-21.303	1.00	37.94	H	C
ATOM	7987	CB	LYS	H	87	5.423	-25.855	-22.106	1.00	43.35	H	C
ATOM	7990	CG	LYS	H	87	4.077	-26.520	-21.790	1.00	45.90	H	C
ATOM	7993	CD	LYS	H	87	3.521	-27.306	-22.994	1.00	45.57	H	C
ATOM	7996	CE	LYS	H	87	4.511	-28.327	-23.578	1.00	47.22	H	C
ATOM	7999	NZ	LYS	H	87	4.844	-29.430	-22.627	1.00	50.73	H	N
ATOM	8003	C	LYS	H	87	7.186	-24.194	-21.480	1.00	37.32	H	C
ATOM	8004	O	LYS	H	87	7.498	-23.305	-22.265	1.00	41.73	H	O
ATOM	8006	N	ALA	H	88	8.083	-24.868	-20.763	1.00	36.49	H	N
ATOM	8007	CA	ALA	H	88	9.522	-24.584	-20.850	1.00	33.56	H	C
ATOM	8009	CB	ALA	H	88	10.286	-25.472	-19.896	1.00	29.59	H	C
ATOM	8013	C	ALA	H	88	10.057	-24.744	-22.282	1.00	35.50	H	C
ATOM	8014	O	ALA	H	88	10.938	-23.990	-22.717	1.00	32.47	H	O
ATOM	8016	N	GLU	H	89	9.490	-25.705	-23.012	1.00	36.02	H	N
ATOM	8017	CA	GLU	H	89	9.877	-25.999	-24.406	1.00	34.85	H	C
ATOM	8019	CB	GLU	H	89	9.394	-27.388	-24.865	1.00	40.24	H	C
ATOM	8022	CG	GLU	H	89	8.329	-28.073	-23.995	1.00	42.76	H	C
ATOM	8025	CD	GLU	H	89	8.891	-28.615	-22.687	1.00	46.41	H	C
ATOM	8026	OE1	GLU	H	89	8.148	-28.613	-21.674	1.00	44.25	H	O
ATOM	8027	OE2	GLU	H	89	10.078	-29.025	-22.668	1.00	47.20	H	O
ATOM	8028	C	GLU	H	89	9.422	-24.930	-25.406	1.00	31.29	H	C
ATOM	8029	O	GLU	H	89	9.911	-24.888	-26.530	1.00	33.83	H	O
ATOM	8031	N	ASP	H	90	8.497	-24.068	-24.995	1.00	30.11	H	N
ATOM	8032	CA	ASP	H	90	8.141	-22.888	-25.789	1.00	28.57	H	C
ATOM	8034	CB	ASP	H	90	6.783	-22.359	-25.377	1.00	28.15	H	C
ATOM	8037	CG	ASP	H	90	5.706	-23.378	-25.563	1.00	25.63	H	C
ATOM	8038	OD1	ASP	H	90	5.786	-24.151	-26.549	1.00	6.66	H	O
ATOM	8039	OD2	ASP	H	90	4.795	-23.412	-24.717	1.00	2.00	H	O
ATOM	8040	C	ASP	H	90	9.142	-21.750	-25.695	1.00	28.95	H	C
ATOM	8041	O	ASP	H	90	8.898	-20.673	-26.247	1.00	36.03	H	O
ATOM	8043	N	THR	H	91	10.246	-21.964	-24.985	1.00	26.59	H	N
ATOM	8044	CA	THR	H	91	11.308	-20.980	-24.937	1.00	24.21	H	C
ATOM	8046	CB	THR	H	91	12.339	-21.303	-23.845	1.00	22.44	H	C
ATOM	8048	OG1	THR	H	91	11.709	-21.251	-22.553	1.00	26.55	H	O
ATOM	8050	CG2	THR	H	91	13.511	-20.309	-23.909	1.00	23.69	H	C
ATOM	8054	C	THR	H	91	11.939	-21.007	-26.326	1.00	22.91	H	C
ATOM	8055	O	THR	H	91	12.536	-22.003	-26.703	1.00	23.54	H	O
ATOM	8057	N	ALA	H	92	11.734	-19.935	-27.088	1.00	21.73	H	N
ATOM	8058	CA	ALA	H	92	12.217	-19.849	-28.475	1.00	24.07	H	C
ATOM	8060	CB	ALA	H	92	11.421	-20.776	-29.367	1.00	14.67	H	C
ATOM	8064	C	ALA	H	92	12.085	-18.419	-28.995	1.00	25.06	H	C
ATOM	8065	O	ALA	H	92	11.316	-17.612	-28.455	1.00	28.86	H	O
ATOM	8067	N	VAL	H	93	12.847	-18.114	-30.034	1.00	28.61	H	N
ATOM	8068	CA	VAL	H	93	12.578	-16.929	-30.830	1.00	25.63	H	C
ATOM	8070	CB	VAL	H	93	13.769	-16.482	-31.660	1.00	18.28	H	C
ATOM	8072	CG1	VAL	H	93	13.443	-15.175	-32.350	1.00	9.83	H	C
ATOM	8076	CG2	VAL	H	93	14.993	-16.317	-30.775	1.00	18.78	H	C
ATOM	8080	C	VAL	H	93	11.403	-17.239	-31.751	1.00	24.01	H	C
ATOM	8081	O	VAL	H	93	11.335	-18.316	-32.338	1.00	20.21	H	O
ATOM	8083	N	TYR	H	94	10.468	-16.294	-31.798	1.00	25.45	H	N
ATOM	8084	CA	TYR	H	94	9.279	-16.332	-32.627	1.00	22.08	H	C
ATOM	8086	CB	TYR	H	94	8.031	-16.119	-31.747	1.00	19.33	H	C
ATOM	8089	CG	TYR	H	94	7.781	-17.302	-30.864	1.00	16.65	H	C
ATOM	8090	CD1	TYR	H	94	7.088	-18.400	-31.349	1.00	18.77	H	C
ATOM	8092	CE1	TYR	H	94	6.884	-19.527	-30.576	1.00	18.65	H	C
ATOM	8094	CZ	TYR	H	94	7.369	-19.570	-29.295	1.00	17.90	H	C
ATOM	8095	OH	TYR	H	94	7.156	-20.710	-28.562	1.00	19.11	H	O
ATOM	8097	CE2	TYR	H	94	8.087	-18.488	-28.773	1.00	18.42	H	C
ATOM	8099	CD2	TYR	H	94	8.295	-17.365	-29.566	1.00	20.37	H	C
ATOM	8101	C	TYR	H	94	9.417	-15.205	-33.637	1.00	22.15	H	C
ATOM	8102	O	TYR	H	94	9.566	-14.050	-33.259	1.00	26.25	H	O
ATOM	8104	N	TYR	H	95	9.388	-15.550	-34.917	1.00	24.17	H	N

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ATOM	8105	CA	TYR	H	95	9.444	-14.575	-36.000	1.00	24.88	H	C
ATOM	8107	CB	TYR	H	95	10.419	-15.025	-37.068	1.00	24.21	H	C
ATOM	8110	CG	TYR	H	95	11.872	-15.137	-36.687	1.00	27.68	H	C
ATOM	8111	CD1	TYR	H	95	12.701	-14.024	-36.746	1.00	29.70	H	C
ATOM	8113	CE1	TYR	H	95	14.054	-14.119	-36.468	1.00	27.47	H	C
ATOM	8115	CZ	TYR	H	95	14.592	-15.334	-36.133	1.00	25.18	H	C
ATOM	8116	OH	TYR	H	95	15.923	-15.377	-35.853	1.00	26.94	H	O
ATOM	8118	CE2	TYR	H	95	13.799	-16.474	-36.075	1.00	23.47	H	C
ATOM	8120	CD2	TYR	H	95	12.447	-16.373	-36.369	1.00	23.66	H	C
ATOM	8122	C	TYR	H	95	8.107	-14.451	-36.720	1.00	27.83	H	C
ATOM	8123	O	TYR	H	95	7.320	-15.401	-36.776	1.00	28.13	H	O
ATOM	8125	N	CYS	H	96	7.882	-13.282	-37.311	1.00	28.29	H	N
ATOM	8126	CA	CYS	H	96	6.873	-13.133	-38.351	1.00	27.75	H	C
ATOM	8128	CB	CYS	H	96	5.953	-11.955	-38.049	1.00	29.00	H	C
ATOM	8131	SG	CYS	H	96	6.759	-10.339	-37.808	1.00	28.42	H	S
ATOM	8133	C	CYS	H	96	7.596	-12.927	-39.672	1.00	23.39	H	C
ATOM	8134	O	CYS	H	96	8.631	-12.269	-39.691	1.00	22.91	H	O
ATOM	8136	N	GLU	H	97	7.088	-13.527	-40.749	1.00	24.86	H	N
ATOM	8137	CA	GLU	H	97	7.499	-13.146	-42.110	1.00	28.71	H	C
ATOM	8139	CB	GLU	H	97	8.492	-14.120	-42.801	1.00	28.02	H	C
ATOM	8142	CG	GLU	H	97	8.072	-15.550	-42.863	1.00	30.58	H	C
ATOM	8145	CD	GLU	H	97	8.371	-16.258	-44.205	1.00	28.90	H	C
ATOM	8146	OE1	GLU	H	97	9.353	-15.977	-44.942	1.00	26.45	H	O
ATOM	8147	OE2	GLU	H	97	7.578	-17.146	-44.515	1.00	33.22	H	O
ATOM	8148	C	GLU	H	97	6.303	-12.931	-43.004	1.00	26.95	H	C
ATOM	8149	O	GLU	H	97	5.275	-13.619	-42.911	1.00	28.62	H	O
ATOM	8151	N	ARG	H	98	6.459	-11.958	-43.885	1.00	25.24	H	N
ATOM	8152	CA	ARG	H	98	5.380	-11.568	-44.755	1.00	26.03	H	C
ATOM	8154	CB	ARG	H	98	5.588	-10.135	-45.268	1.00	19.72	H	C
ATOM	8157	CG	ARG	H	98	4.460	-9.687	-46.156	1.00	23.64	H	C
ATOM	8160	CD	ARG	H	98	4.737	-8.400	-46.870	1.00	24.21	H	C
ATOM	8163	NE	ARG	H	98	5.776	-8.516	-47.882	1.00	23.55	H	N
ATOM	8165	CZ	ARG	H	98	6.033	-7.588	-48.796	1.00	26.06	H	C
ATOM	8166	NH1	ARG	H	98	5.322	-6.461	-48.839	1.00	25.80	H	N
ATOM	8169	NH2	ARG	H	98	7.007	-7.778	-49.670	1.00	24.64	H	N
ATOM	8172	C	ARG	H	98	5.375	-12.590	-45.882	1.00	25.96	H	C
ATOM	8173	O	ARG	H	98	6.432	-12.892	-46.428	1.00	19.43	H	O
ATOM	8175	N	GLU	H	99	4.199	-13.146	-46.180	1.00	24.19	H	N
ATOM	8176	CA	GLU	H	99	3.993	-14.056	-47.314	1.00	25.74	H	C
ATOM	8178	CB	GLU	H	99	2.913	-15.053	-46.896	1.00	25.41	H	C
ATOM	8181	CG	GLU	H	99	2.658	-16.148	-47.897	1.00	26.70	H	C
ATOM	8184	CD	GLU	H	99	3.901	-16.907	-48.290	1.00	26.55	H	C
ATOM	8185	OE1	GLU	H	99	4.844	-16.951	-47.485	1.00	25.94	H	O
ATOM	8186	OE2	GLU	H	99	3.926	-17.477	-49.396	1.00	20.58	H	O
ATOM	8187	C	GLU	H	99	3.520	-13.166	-48.461	1.00	26.84	H	C
ATOM	8188	O	GLU	H	99	2.323	-12.940	-48.624	1.00	32.10	H	O
ATOM	8190	N	GLY	H	100	4.403	-12.620	-49.285	1.00	33.16	H	N
ATOM	8191	CA	GLY	H	100	5.128	-13.282	-50.386	1.00	22.73	H	C
ATOM	8194	C	GLY	H	100	5.721	-11.963	-50.904	1.00	22.89	H	C
ATOM	8195	O	GLY	H	100	6.007	-11.080	-50.090	1.00	23.35	H	O
ATOM	8197	N	GLY	H	101	5.898	-11.758	-52.203	1.00	25.39	H	N
ATOM	8198	CA	GLY	H	101	6.686	-10.601	-52.665	1.00	27.71	H	C
ATOM	8201	C	GLY	H	101	8.165	-10.701	-52.249	1.00	33.17	H	C
ATOM	8202	O	GLY	H	101	8.648	-11.799	-51.922	1.00	30.77	H	O
ATOM	8204	N	VAL	H	108	8.882	-9.567	-52.282	1.00	30.83	H	N
ATOM	8205	CA	VAL	H	108	10.258	-9.468	-51.775	1.00	27.55	H	C
ATOM	8207	CB	VAL	H	108	10.829	-8.011	-51.914	1.00	27.41	H	C
ATOM	8209	CG1	VAL	H	108	12.227	-7.873	-51.289	1.00	17.94	H	C
ATOM	8213	CG2	VAL	H	108	10.882	-7.599	-53.385	1.00	28.02	H	C
ATOM	8217	C	VAL	H	108	10.205	-9.894	-50.316	1.00	32.10	H	C
ATOM	8218	O	VAL	H	108	9.407	-9.360	-49.551	1.00	33.42	H	O
ATOM	8220	N	ASN	H	109	11.032	-10.872	-49.937	1.00	31.28	H	N
ATOM	8221	CA	ASN	H	109	10.868	-11.548	-48.648	1.00	27.01	H	C
ATOM	8223	CB	ASN	H	109	11.589	-12.902	-48.676	1.00	26.72	H	C
ATOM	8226	CG	ASN	H	109	11.203	-13.812	-47.519	1.00	24.94	H	C
ATOM	8227	OD1	ASN	H	109	10.090	-14.318	-47.456	1.00	26.44	H	O
ATOM	8228	ND2	ASN	H	109	12.142	-14.060	-46.630	1.00	25.17	H	N
ATOM	8231	C	ASN	H	109	11.331	-10.710	-47.452	1.00	26.64	H	C

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ATOM	8232	O	ASN	H	109	12.497	-10.318	-47.361	1.00	24.08	H	O
ATOM	8234	N	ASN	H	110	10.395	-10.441	-46.542	1.00	26.69	H	N
ATOM	8235	CA	ASN	H	110	10.681	-9.710	-45.323	1.00	28.03	H	C
ATOM	8237	CB	ASN	H	110	9.995	-8.342	-45.320	1.00	27.80	H	C
ATOM	8240	CG	ASN	H	110	10.616	-7.379	-46.301	1.00	27.42	H	C
ATOM	8241	OD1	ASN	H	110	11.457	-6.566	-45.934	1.00	32.21	H	O
ATOM	8242	ND2	ASN	H	110	10.204	-7.464	-47.555	1.00	22.21	H	N
ATOM	8245	C	ASN	H	110	10.287	-10.482	-44.074	1.00	26.90	H	C
ATOM	8246	O	ASN	H	110	9.257	-11.158	-44.034	1.00	27.05	H	O
ATOM	8248	N	TRP	H	111	11.139	-10.355	-43.063	1.00	27.87	H	N
ATOM	8249	CA	TRP	H	111	10.959	-10.970	-41.764	1.00	28.11	H	C
ATOM	8251	CB	TRP	H	111	12.104	-11.936	-41.497	1.00	24.76	H	C
ATOM	8254	CG	TRP	H	111	12.001	-13.247	-42.198	1.00	20.76	H	C
ATOM	8255	CD1	TRP	H	111	11.996	-13.469	-43.543	1.00	23.07	H	C
ATOM	8257	NE1	TRP	H	111	11.905	-14.812	-43.799	1.00	24.95	H	N
ATOM	8259	CE2	TRP	H	111	11.841	-15.485	-42.612	1.00	20.80	H	C
ATOM	8260	CD2	TRP	H	111	11.908	-14.526	-41.580	1.00	16.55	H	C
ATOM	8261	CE3	TRP	H	111	11.889	-14.958	-40.250	1.00	21.08	H	C
ATOM	8263	CZ3	TRP	H	111	11.799	-16.313	-40.000	1.00	23.79	H	C
ATOM	8265	CH2	TRP	H	111	11.751	-17.253	-41.060	1.00	23.87	H	C
ATOM	8267	CZ2	TRP	H	111	11.756	-16.855	-42.362	1.00	22.29	H	C
ATOM	8269	C	TRP	H	111	11.000	-9.892	-40.692	1.00	28.71	H	C
ATOM	8270	O	TRP	H	111	11.654	-8.862	-40.856	1.00	27.45	H	O
ATOM	8272	N	GLY	H	112	10.321	-10.149	-39.582	1.00	26.40	H	N
ATOM	8273	CA	GLY	H	112	10.537	-9.381	-38.382	1.00	26.14	H	C
ATOM	8276	C	GLY	H	112	11.850	-9.791	-37.740	1.00	23.03	H	C
ATOM	8277	O	GLY	H	112	12.415	-10.796	-38.102	1.00	26.04	H	O
ATOM	8279	N	GLN	H	113	12.301	-9.019	-36.753	1.00	29.04	H	N
ATOM	8280	CA	GLN	H	113	13.587	-9.258	-36.080	1.00	28.04	H	C
ATOM	8282	CB	GLN	H	113	14.095	-7.966	-35.379	1.00	26.51	H	C
ATOM	8285	CG	GLN	H	113	13.579	-7.666	-33.949	1.00	26.20	H	C
ATOM	8288	CD	GLN	H	113	12.229	-6.976	-33.914	1.00	26.07	H	C
ATOM	8289	OE1	GLN	H	113	11.545	-6.853	-34.941	1.00	24.30	H	O
ATOM	8290	NE2	GLN	H	113	11.841	-6.506	-32.733	1.00	25.24	H	N
ATOM	8293	C	GLN	H	113	13.559	-10.441	-35.099	1.00	27.87	H	C
ATOM	8294	O	GLN	H	113	14.615	-10.938	-34.695	1.00	24.88	H	O
ATOM	8296	N	GLY	H	114	12.358	-10.888	-34.737	1.00	26.83	H	N
ATOM	8297	CA	GLY	H	114	12.175	-11.930	-33.735	1.00	25.49	H	C
ATOM	8300	C	GLY	H	114	11.842	-11.386	-32.370	1.00	28.17	H	C
ATOM	8301	O	GLY	H	114	12.221	-10.274	-32.041	1.00	31.34	H	O
ATOM	8303	N	THR	H	115	11.087	-12.172	-31.600	1.00	28.55	H	N
ATOM	8304	CA	THR	H	115	10.838	-11.953	-30.181	1.00	25.21	H	C
ATOM	8306	CB	THR	H	115	9.316	-11.733	-29.891	1.00	27.30	H	C
ATOM	8308	OG1	THR	H	115	8.819	-10.600	-30.629	1.00	26.56	H	O
ATOM	8310	CG2	THR	H	115	9.065	-11.518	-28.418	1.00	24.09	H	C
ATOM	8314	C	THR	H	115	11.313	-13.233	-29.453	1.00	27.22	H	C
ATOM	8315	O	THR	H	115	10.913	-14.331	-29.827	1.00	27.51	H	O
ATOM	8317	N	LEU	H	116	12.179	-13.106	-28.444	1.00	26.19	H	N
ATOM	8318	CA	LEU	H	116	12.580	-14.274	-27.647	1.00	25.35	H	C
ATOM	8320	CB	LEU	H	116	14.056	-14.211	-27.185	1.00	24.29	H	C
ATOM	8323	CG	LEU	H	116	14.620	-15.254	-26.185	1.00	24.64	H	C
ATOM	8325	CD1	LEU	H	116	14.480	-16.702	-26.604	1.00	21.54	H	C
ATOM	8329	CD2	LEU	H	116	16.091	-14.995	-25.904	1.00	26.59	H	C
ATOM	8333	C	LEU	H	116	11.644	-14.327	-26.466	1.00	25.68	H	C
ATOM	8334	O	LEU	H	116	11.549	-13.374	-25.706	1.00	25.56	H	O
ATOM	8336	N	VAL	H	117	10.921	-15.433	-26.348	1.00	25.43	H	N
ATOM	8337	CA	VAL	H	117	10.101	-15.696	-25.182	1.00	17.92	H	C
ATOM	8339	CB	VAL	H	117	8.679	-16.133	-25.576	1.00	17.75	H	C
ATOM	8341	CG1	VAL	H	117	7.822	-16.410	-24.318	1.00	14.64	H	C
ATOM	8345	CG2	VAL	H	117	8.034	-15.077	-26.455	1.00	17.75	H	C
ATOM	8349	C	VAL	H	117	10.767	-16.794	-24.364	1.00	17.37	H	C
ATOM	8350	O	VAL	H	117	11.029	-17.882	-24.870	1.00	12.33	H	O
ATOM	8352	N	THR	H	118	11.033	-16.505	-23.091	1.00	23.95	H	N
ATOM	8353	CA	THR	H	118	11.612	-17.474	-22.172	1.00	22.92	H	C
ATOM	8355	CB	THR	H	118	12.809	-16.857	-21.406	1.00	27.19	H	C
ATOM	8357	OG1	THR	H	118	13.689	-16.202	-22.330	1.00	25.50	H	O
ATOM	8359	CG2	THR	H	118	13.578	-17.919	-20.628	1.00	26.58	H	C
ATOM	8363	C	THR	H	118	10.521	-17.888	-21.185	1.00	24.48	H	C

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ATOM	8364	O	THR	H	118	9.863	-17.032	-20.590	1.00	23.34	H	O
ATOM	8366	N	VAL	H	119	10.286	-19.190	-21.049	1.00	24.92	H	N
ATOM	8367	CA	VAL	H	119	9.358	-19.673	-20.031	1.00	23.47	H	C
ATOM	8369	CB	VAL	H	119	8.319	-20.684	-20.569	1.00	15.83	H	C
ATOM	8371	CG1	VAL	H	119	7.400	-21.149	-19.426	1.00	20.19	H	C
ATOM	8375	CG2	VAL	H	119	7.473	-20.048	-21.679	1.00	11.41	H	C
ATOM	8379	C	VAL	H	119	10.154	-20.290	-18.885	1.00	25.93	H	C
ATOM	8380	O	VAL	H	119	10.779	-21.336	-19.051	1.00	23.45	H	O
ATOM	8382	N	SER	H	120	10.139	-19.622	-17.731	1.00	29.66	H	N
ATOM	8383	CA	SER	H	120	10.841	-20.115	-16.538	1.00	33.71	H	C
ATOM	8385	CB	SER	H	120	12.296	-19.631	-16.546	1.00	35.78	H	C
ATOM	8388	OG	SER	H	120	12.978	-20.008	-15.361	1.00	35.68	H	O
ATOM	8390	C	SER	H	120	10.149	-19.636	-15.270	1.00	32.74	H	C
ATOM	8391	O	SER	H	120	9.485	-18.600	-15.292	1.00	33.43	H	O
ATOM	8393	N	SER	H	121	10.307	-20.388	-14.176	1.00	35.59	H	N
ATOM	8394	CA	SER	H	121	9.823	-19.942	-12.848	1.00	40.05	H	C
ATOM	8396	CB	SER	H	121	9.795	-21.097	-11.832	1.00	41.66	H	C
ATOM	8399	OG	SER	H	121	8.549	-21.773	-11.851	1.00	42.51	H	O
ATOM	8401	C	SER	H	121	10.679	-18.809	-12.284	1.00	41.69	H	C
ATOM	8402	O	SER	H	121	10.228	-18.079	-11.409	1.00	42.91	H	O
ATOM	8404	N	ALA	H	122	11.912	-18.680	-12.782	1.00	44.09	H	N
ATOM	8405	CA	ALA	H	122	12.863	-17.670	-12.307	1.00	43.86	H	C
ATOM	8407	CB	ALA	H	122	14.224	-17.882	-12.963	1.00	44.95	H	C
ATOM	8411	C	ALA	H	122	12.380	-16.248	-12.565	1.00	45.54	H	C
ATOM	8412	O	ALA	H	122	11.695	-15.983	-13.556	1.00	47.85	H	O
ATOM	8414	N	SER	H	123	12.739	-15.338	-11.662	1.00	45.30	H	N
ATOM	8415	CA	SER	H	123	12.402	-13.920	-11.803	1.00	45.61	H	C
ATOM	8417	CB	SER	H	123	12.273	-13.270	-10.427	1.00	47.10	H	C
ATOM	8420	OG	SER	H	123	13.268	-13.766	-9.548	1.00	49.06	H	O
ATOM	8422	C	SER	H	123	13.444	-13.181	-12.655	1.00	44.44	H	C
ATOM	8423	O	SER	H	123	14.572	-13.660	-12.839	1.00	40.43	H	O
ATOM	8425	N	THR	H	124	13.053	-12.017	-13.171	1.00	45.08	H	N
ATOM	8426	CA	THR	H	124	13.932	-11.201	-14.010	1.00	46.45	H	C
ATOM	8428	CB	THR	H	124	13.131	-10.126	-14.806	1.00	49.48	H	C
ATOM	8430	OG1	THR	H	124	13.984	-9.503	-15.777	1.00	51.02	H	O
ATOM	8432	CG2	THR	H	124	12.539	-9.060	-13.877	1.00	50.62	H	C
ATOM	8436	C	THR	H	124	15.043	-10.537	-13.180	1.00	46.82	H	C
ATOM	8437	O	THR	H	124	14.781	-9.976	-12.106	1.00	48.27	H	O
ATOM	8439	N	LYS	H	125	16.280	-10.630	-13.670	1.00	44.93	H	N
ATOM	8440	CA	LYS	H	125	17.426	-9.981	-13.032	1.00	43.78	H	C
ATOM	8442	CB	LYS	H	125	18.288	-10.999	-12.269	1.00	45.93	H	C
ATOM	8445	CG	LYS	H	125	18.972	-10.411	-11.018	1.00	45.78	H	C
ATOM	8448	CD	LYS	H	125	20.118	-11.290	-10.503	1.00	46.44	H	C
ATOM	8451	CE	LYS	H	125	20.175	-11.316	-8.970	1.00	47.72	H	C
ATOM	8454	NZ	LYS	H	125	20.117	-9.956	-8.344	1.00	47.92	H	N
ATOM	8458	C	LYS	H	125	18.282	-9.264	-14.076	1.00	42.52	H	C
ATOM	8459	O	LYS	H	125	18.628	-9.849	-15.110	1.00	37.91	H	O
ATOM	8461	N	GLY	H	126	18.623	-8.004	-13.788	1.00	39.38	H	N
ATOM	8462	CA	GLY	H	126	19.497	-7.206	-14.643	1.00	37.54	H	C
ATOM	8465	C	GLY	H	126	20.952	-7.521	-14.360	1.00	35.67	H	C
ATOM	8466	O	GLY	H	126	21.295	-7.850	-13.223	1.00	34.54	H	O
ATOM	8468	N	PRO	H	127	21.820	-7.419	-15.386	1.00	35.15	H	N
ATOM	8469	CA	PRO	H	127	23.225	-7.806	-15.243	1.00	36.68	H	C
ATOM	8471	CB	PRO	H	127	23.735	-7.849	-16.691	1.00	36.51	H	C
ATOM	8474	CG	PRO	H	127	22.860	-6.921	-17.437	1.00	36.24	H	C
ATOM	8477	CD	PRO	H	127	21.521	-6.921	-16.742	1.00	36.45	H	C
ATOM	8480	C	PRO	H	127	24.086	-6.832	-14.438	1.00	38.63	H	C
ATOM	8481	O	PRO	H	127	23.705	-5.677	-14.222	1.00	40.90	H	O
ATOM	8482	N	SER	H	128	25.236	-7.335	-13.998	1.00	36.31	H	N
ATOM	8483	CA	SER	H	128	26.320	-6.519	-13.493	1.00	34.83	H	C
ATOM	8485	CB	SER	H	128	26.834	-7.080	-12.165	1.00	33.89	H	C
ATOM	8488	OG	SER	H	128	25.866	-6.929	-11.137	1.00	31.42	H	O
ATOM	8490	C	SER	H	128	27.420	-6.540	-14.551	1.00	34.96	H	C
ATOM	8491	O	SER	H	128	27.811	-7.602	-15.021	1.00	30.40	H	O
ATOM	8493	N	VAL	H	129	27.895	-5.363	-14.943	1.00	36.06	H	N
ATOM	8494	CA	VAL	H	129	28.932	-5.253	-15.964	1.00	34.28	H	C
ATOM	8496	CB	VAL	H	129	28.555	-4.218	-17.054	1.00	33.77	H	C
ATOM	8498	CG1	VAL	H	129	29.584	-4.213	-18.178	1.00	35.46	H	C

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ATOM	8502	CG2	VAL	H	129	27.170	-4.498	-17.601	1.00	30.77	H	C
ATOM	8506	C	VAL	H	129	30.242	-4.855	-15.284	1.00	32.58	H	C
ATOM	8507	O	VAL	H	129	30.314	-3.824	-14.611	1.00	34.17	H	O
ATOM	8509	N	PHE	H	130	31.256	-5.701	-15.447	1.00	32.41	H	N
ATOM	8510	CA	PHE	H	130	32.592	-5.465	-14.917	1.00	33.72	H	C
ATOM	8512	CB	PHE	H	130	33.018	-6.606	-13.981	1.00	33.49	H	C
ATOM	8515	CG	PHE	H	130	32.019	-6.918	-12.898	1.00	32.75	H	C
ATOM	8516	CD1	PHE	H	130	31.769	-6.007	-11.883	1.00	32.01	H	C
ATOM	8518	CE1	PHE	H	130	30.846	-6.288	-10.883	1.00	32.30	H	C
ATOM	8520	CZ	PHE	H	130	30.171	-7.491	-10.886	1.00	32.77	H	C
ATOM	8522	CE2	PHE	H	130	30.414	-8.412	-11.893	1.00	33.10	H	C
ATOM	8524	CD2	PHE	H	130	31.338	-8.127	-12.888	1.00	32.02	H	C
ATOM	8526	C	PHE	H	130	33.576	-5.379	-16.082	1.00	34.31	H	C
ATOM	8527	O	PHE	H	130	33.401	-6.056	-17.088	1.00	35.96	H	O
ATOM	8529	N	PRO	H	131	34.618	-4.540	-15.954	1.00	35.83	H	N
ATOM	8530	CA	PRO	H	131	35.599	-4.412	-17.033	1.00	34.25	H	C
ATOM	8532	CB	PRO	H	131	36.390	-3.163	-16.634	1.00	35.48	H	C
ATOM	8535	CG	PRO	H	131	36.292	-3.113	-15.147	1.00	34.74	H	C
ATOM	8538	CD	PRO	H	131	34.929	-3.656	-14.811	1.00	33.90	H	C
ATOM	8541	C	PRO	H	131	36.540	-5.602	-17.138	1.00	31.80	H	C
ATOM	8542	O	PRO	H	131	36.770	-6.297	-16.156	1.00	32.76	H	O
ATOM	8543	N	LEU	H	132	37.054	-5.832	-18.339	1.00	33.15	H	N
ATOM	8544	CA	LEU	H	132	38.171	-6.740	-18.563	1.00	36.33	H	C
ATOM	8546	CB	LEU	H	132	37.803	-7.848	-19.560	1.00	36.81	H	C
ATOM	8549	CG	LEU	H	132	36.663	-8.793	-19.159	1.00	35.77	H	C
ATOM	8551	CD1	LEU	H	132	36.248	-9.650	-20.337	1.00	32.21	H	C
ATOM	8555	CD2	LEU	H	132	37.060	-9.660	-17.977	1.00	32.93	H	C
ATOM	8559	C	LEU	H	132	39.284	-5.859	-19.104	1.00	35.97	H	C
ATOM	8560	O	LEU	H	132	39.373	-5.617	-20.306	1.00	36.14	H	O
ATOM	8562	N	ALA	H	133	40.105	-5.352	-18.193	1.00	39.87	H	N
ATOM	8563	CA	ALA	H	133	41.058	-4.293	-18.503	1.00	43.26	H	C
ATOM	8565	CB	ALA	H	133	41.570	-3.654	-17.216	1.00	42.36	H	C
ATOM	8569	C	ALA	H	133	42.229	-4.803	-19.334	1.00	46.24	H	C
ATOM	8570	O	ALA	H	133	42.669	-5.942	-19.157	1.00	46.65	H	O
ATOM	8572	N	PRO	H	134	42.751	-3.952	-20.238	1.00	49.34	H	N
ATOM	8573	CA	PRO	H	134	43.908	-4.344	-21.036	1.00	51.17	H	C
ATOM	8575	CB	PRO	H	134	43.853	-3.384	-22.228	1.00	48.58	H	C
ATOM	8578	CG	PRO	H	134	43.136	-2.179	-21.730	1.00	47.99	H	C
ATOM	8581	CD	PRO	H	134	42.299	-2.580	-20.548	1.00	47.37	H	C
ATOM	8584	C	PRO	H	134	45.213	-4.195	-20.255	1.00	55.13	H	C
ATOM	8585	O	PRO	H	134	45.265	-3.457	-19.272	1.00	57.14	H	O
ATOM	8586	N	SER	H	135	46.254	-4.894	-20.690	1.00	59.44	H	N
ATOM	8587	CA	SER	H	135	47.546	-4.863	-20.004	1.00	64.17	H	C
ATOM	8589	CB	SER	H	135	47.508	-5.803	-18.794	1.00	63.79	H	C
ATOM	8592	OG	SER	H	135	47.188	-7.126	-19.191	1.00	62.73	H	O
ATOM	8594	C	SER	H	135	48.662	-5.261	-20.973	1.00	69.77	H	C
ATOM	8595	O	SER	H	135	48.429	-5.335	-22.183	1.00	70.48	H	O
ATOM	8597	N	SER	H	136	49.871	-5.493	-20.455	1.00	74.01	H	N
ATOM	8598	CA	SER	H	136	50.955	-6.075	-21.260	1.00	76.51	H	C
ATOM	8600	CB	SER	H	136	52.310	-5.910	-20.561	1.00	75.21	H	C
ATOM	8603	OG	SER	H	136	52.475	-6.860	-19.520	1.00	73.40	H	O
ATOM	8605	C	SER	H	136	50.699	-7.565	-21.570	1.00	81.86	H	C
ATOM	8606	O	SER	H	136	51.169	-8.073	-22.595	1.00	82.53	H	O
ATOM	8608	N	LYS	H	137	49.962	-8.249	-20.681	1.00	85.95	H	N
ATOM	8609	CA	LYS	H	137	49.586	-9.677	-20.851	1.00	85.58	H	C
ATOM	8611	CB	LYS	H	137	49.404	-10.380	-19.489	1.00	85.07	H	C
ATOM	8614	CG	LYS	H	137	50.663	-11.056	-18.938	1.00	83.96	H	C
ATOM	8617	CD	LYS	H	137	50.949	-12.389	-19.621	1.00	83.33	H	C
ATOM	8620	CE	LYS	H	137	52.144	-13.094	-18.991	1.00	83.38	H	C
ATOM	8623	NZ	LYS	H	137	52.350	-14.469	-19.528	1.00	81.97	H	N
ATOM	8627	C	LYS	H	137	48.319	-9.864	-21.701	1.00	87.99	H	C
ATOM	8628	O	LYS	H	137	48.094	-10.953	-22.246	1.00	87.19	H	O
ATOM	8630	N	SER	H	138	47.492	-8.816	-21.789	1.00	89.89	H	N
ATOM	8631	CA	SER	H	138	46.409	-8.759	-22.786	1.00	89.19	H	C
ATOM	8633	CB	SER	H	138	45.152	-8.063	-22.240	1.00	87.09	H	C
ATOM	8636	OG	SER	H	138	44.981	-6.777	-22.805	1.00	85.82	H	O
ATOM	8638	C	SER	H	138	46.901	-8.067	-24.076	1.00	90.89	H	C
ATOM	8639	O	SER	H	138	46.111	-7.837	-24.993	1.00	91.36	H	O

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ATOM	8641	N	THR	H	139	48.198	-7.735	-24.123	1.00	91.70	H	N
ATOM	8642	CA	THR	H	139	48.863	-7.192	-25.315	1.00	90.51	H	C
ATOM	8644	CB	THR	H	139	49.881	-6.047	-24.953	1.00	91.36	H	C
ATOM	8646	OG1	THR	H	139	49.175	-4.836	-24.640	1.00	90.80	H	O
ATOM	8648	CG2	THR	H	139	50.854	-5.774	-26.105	1.00	90.91	H	C
ATOM	8652	C	THR	H	139	49.586	-8.321	-26.057	1.00	89.25	H	C
ATOM	8653	O	THR	H	139	50.165	-9.216	-25.433	1.00	88.53	H	O
ATOM	8655	N	SER	H	140	49.537	-8.268	-27.388	1.00	88.72	H	N
ATOM	8656	CA	SER	H	140	50.203	-9.239	-28.260	1.00	87.83	H	C
ATOM	8658	CB	SER	H	140	49.166	-9.896	-29.187	1.00	88.22	H	C
ATOM	8661	OG	SER	H	140	49.601	-11.168	-29.637	1.00	88.23	H	O
ATOM	8663	C	SER	H	140	51.307	-8.524	-29.064	1.00	87.24	H	C
ATOM	8664	O	SER	H	140	51.348	-8.590	-30.300	1.00	86.84	H	O
ATOM	8666	N	GLY	H	141	52.202	-7.843	-28.343	1.00	84.48	H	N
ATOM	8667	CA	GLY	H	141	53.181	-6.941	-28.955	1.00	80.57	H	C
ATOM	8670	C	GLY	H	141	52.551	-5.596	-29.299	1.00	79.17	H	C
ATOM	8671	O	GLY	H	141	52.744	-4.607	-28.579	1.00	80.70	H	O
ATOM	8673	N	GLY	H	142	51.787	-5.570	-30.394	1.00	73.79	H	N
ATOM	8674	CA	GLY	H	142	51.143	-4.346	-30.892	1.00	68.18	H	C
ATOM	8677	C	GLY	H	142	49.621	-4.282	-30.787	1.00	64.43	H	C
ATOM	8678	O	GLY	H	142	49.046	-3.201	-30.948	1.00	64.56	H	O
ATOM	8680	N	THR	H	143	48.967	-5.424	-30.540	1.00	58.05	H	N
ATOM	8681	CA	THR	H	143	47.507	-5.486	-30.356	1.00	53.53	H	C
ATOM	8683	CB	THR	H	143	46.874	-6.581	-31.214	1.00	52.89	H	C
ATOM	8685	OG1	THR	H	143	46.968	-6.213	-32.592	1.00	53.54	H	O
ATOM	8687	CG2	THR	H	143	45.409	-6.766	-30.855	1.00	54.98	H	C
ATOM	8691	C	THR	H	143	47.155	-5.781	-28.908	1.00	48.91	H	C
ATOM	8692	O	THR	H	143	47.838	-6.556	-28.255	1.00	47.43	H	O
ATOM	8694	N	ALA	H	144	46.078	-5.168	-28.420	1.00	46.93	H	N
ATOM	8695	CA	ALA	H	144	45.628	-5.345	-27.040	1.00	43.98	H	C
ATOM	8697	CB	ALA	H	144	45.801	-4.056	-26.254	1.00	44.69	H	C
ATOM	8701	C	ALA	H	144	44.173	-5.798	-27.000	1.00	42.19	H	C
ATOM	8702	O	ALA	H	144	43.333	-5.312	-27.764	1.00	39.08	H	O
ATOM	8704	N	ALA	H	145	43.878	-6.727	-26.098	1.00	40.02	H	N
ATOM	8705	CA	ALA	H	145	42.515	-7.190	-25.896	1.00	36.52	H	C
ATOM	8707	CB	ALA	H	145	42.483	-8.692	-25.714	1.00	35.06	H	C
ATOM	8711	C	ALA	H	145	41.930	-6.503	-24.677	1.00	35.07	H	C
ATOM	8712	O	ALA	H	145	42.610	-6.330	-23.658	1.00	31.26	H	O
ATOM	8714	N	LEU	H	146	40.673	-6.090	-24.795	1.00	32.96	H	N
ATOM	8715	CA	LEU	H	146	39.916	-5.599	-23.649	1.00	31.62	H	C
ATOM	8717	CB	LEU	H	146	39.994	-4.065	-23.540	1.00	32.12	H	C
ATOM	8720	CG	LEU	H	146	39.458	-3.147	-24.653	1.00	31.54	H	C
ATOM	8722	CD1	LEU	H	146	38.004	-2.754	-24.416	1.00	31.93	H	C
ATOM	8726	CD2	LEU	H	146	40.304	-1.889	-24.740	1.00	31.46	H	C
ATOM	8730	C	LEU	H	146	38.493	-6.107	-23.816	1.00	30.16	H	C
ATOM	8731	O	LEU	H	146	38.157	-6.658	-24.863	1.00	29.67	H	O
ATOM	8733	N	GLY	H	147	37.670	-5.962	-22.784	1.00	25.21	H	N
ATOM	8734	CA	GLY	H	147	36.299	-6.412	-22.872	1.00	24.17	H	C
ATOM	8737	C	GLY	H	147	35.433	-6.016	-21.704	1.00	24.31	H	C
ATOM	8738	O	GLY	H	147	35.834	-5.225	-20.862	1.00	28.77	H	O
ATOM	8740	N	CYS	H	148	34.221	-6.551	-21.685	1.00	26.43	H	N
ATOM	8741	CA	CYS	H	148	33.313	-6.393	-20.563	1.00	27.92	H	C
ATOM	8743	CB	CYS	H	148	32.165	-5.448	-20.926	1.00	33.54	H	C
ATOM	8746	SG	CYS	H	148	32.656	-3.722	-20.942	1.00	40.27	H	S
ATOM	8748	C	CYS	H	148	32.755	-7.750	-20.196	1.00	24.83	H	C
ATOM	8749	O	CYS	H	148	32.440	-8.540	-21.078	1.00	24.93	H	O
ATOM	8751	N	LEU	H	149	32.650	-8.011	-18.895	1.00	26.36	H	N
ATOM	8752	CA	LEU	H	149	32.001	-9.212	-18.381	1.00	26.22	H	C
ATOM	8754	CB	LEU	H	149	32.773	-9.778	-17.181	1.00	23.19	H	C
ATOM	8757	CG	LEU	H	149	32.149	-10.967	-16.435	1.00	23.06	H	C
ATOM	8759	CD1	LEU	H	149	32.183	-12.250	-17.259	1.00	15.50	H	C
ATOM	8763	CD2	LEU	H	149	32.845	-11.174	-15.100	1.00	23.82	H	C
ATOM	8767	C	LEU	H	149	30.580	-8.835	-17.981	1.00	24.48	H	C
ATOM	8768	O	LEU	H	149	30.372	-8.039	-17.066	1.00	26.66	H	O
ATOM	8770	N	VAL	H	150	29.600	-9.385	-18.686	1.00	27.87	H	N
ATOM	8771	CA	VAL	H	150	28.199	-9.146	-18.358	1.00	28.86	H	C
ATOM	8773	CB	VAL	H	150	27.338	-8.937	-19.625	1.00	27.47	H	C
ATOM	8775	CG1	VAL	H	150	25.948	-8.463	-19.244	1.00	26.91	H	C

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ATOM	8779	CG2	VAL	H	150	28.000	-7.938	-20.563	1.00	26.57	H	C
ATOM	8783	C	VAL	H	150	27.737	-10.371	-17.582	1.00	30.06	H	C
ATOM	8784	O	VAL	H	150	27.628	-11.442	-18.148	1.00	29.12	H	O
ATOM	8786	N	LYS	H	151	27.489	-10.205	-16.284	1.00	31.47	H	N
ATOM	8787	CA	LYS	H	151	27.308	-11.332	-15.369	1.00	31.13	H	C
ATOM	8789	CB	LYS	H	151	28.487	-11.381	-14.393	1.00	33.71	H	C
ATOM	8792	CG	LYS	H	151	28.454	-12.559	-13.441	1.00	34.95	H	C
ATOM	8795	CD	LYS	H	151	29.817	-12.867	-12.861	1.00	36.04	H	C
ATOM	8798	CE	LYS	H	151	29.733	-14.029	-11.884	1.00	36.42	H	C
ATOM	8801	NZ	LYS	H	151	28.924	-13.662	-10.695	1.00	36.41	H	N
ATOM	8805	C	LYS	H	151	25.988	-11.268	-14.597	1.00	26.95	H	C
ATOM	8806	O	LYS	H	151	25.433	-10.199	-14.406	1.00	24.48	H	O
ATOM	8808	N	ASP	H	152	25.494	-12.439	-14.196	1.00	28.87	H	N
ATOM	8809	CA	ASP	H	152	24.293	-12.607	-13.355	1.00	30.95	H	C
ATOM	8811	CB	ASP	H	152	24.611	-12.269	-11.889	1.00	30.79	H	C
ATOM	8814	CG	ASP	H	152	25.612	-13.245	-11.256	1.00	32.61	H	C
ATOM	8815	OD1	ASP	H	152	25.662	-14.424	-11.665	1.00	30.49	H	O
ATOM	8816	OD2	ASP	H	152	26.339	-12.833	-10.323	1.00	35.78	H	O
ATOM	8817	C	ASP	H	152	23.023	-11.873	-13.818	1.00	30.02	H	C
ATOM	8818	O	ASP	H	152	22.449	-11.074	-13.073	1.00	29.03	H	O
ATOM	8820	N	TYR	H	153	22.579	-12.182	-15.039	1.00	31.11	H	N
ATOM	8821	CA	TYR	H	153	21.302	-11.685	-15.564	1.00	28.57	H	C
ATOM	8823	CB	TYR	H	153	21.523	-10.717	-16.728	1.00	25.83	H	C
ATOM	8826	CG	TYR	H	153	22.111	-11.333	-17.974	1.00	25.30	H	C
ATOM	8827	CD1	TYR	H	153	21.290	-11.823	-18.987	1.00	25.48	H	C
ATOM	8829	CE1	TYR	H	153	21.817	-12.383	-20.129	1.00	23.23	H	C
ATOM	8831	CZ	TYR	H	153	23.185	-12.451	-20.285	1.00	25.09	H	C
ATOM	8832	OH	TYR	H	153	23.714	-13.006	-21.437	1.00	23.64	H	O
ATOM	8834	CE2	TYR	H	153	24.027	-11.963	-19.296	1.00	22.64	H	C
ATOM	8836	CD2	TYR	H	153	23.485	-11.410	-18.150	1.00	25.88	H	C
ATOM	8838	C	TYR	H	153	20.387	-12.806	-16.031	1.00	27.96	H	C
ATOM	8839	O	TYR	H	153	20.839	-13.895	-16.392	1.00	26.67	H	O
ATOM	8841	N	PHE	H	154	19.094	-12.509	-16.038	1.00	31.15	H	N
ATOM	8842	CA	PHE	H	154	18.081	-13.432	-16.536	1.00	31.14	H	C
ATOM	8844	CB	PHE	H	154	17.779	-14.487	-15.469	1.00	36.10	H	C
ATOM	8847	CG	PHE	H	154	16.937	-15.633	-15.957	1.00	33.94	H	C
ATOM	8848	CD1	PHE	H	154	17.529	-16.763	-16.495	1.00	35.71	H	C
ATOM	8850	CE1	PHE	H	154	16.752	-17.831	-16.944	1.00	37.65	H	C
ATOM	8852	CZ	PHE	H	154	15.368	-17.773	-16.839	1.00	37.20	H	C
ATOM	8854	CE2	PHE	H	154	14.769	-16.656	-16.293	1.00	36.49	H	C
ATOM	8856	CD2	PHE	H	154	15.552	-15.592	-15.850	1.00	36.52	H	C
ATOM	8858	C	PHE	H	154	16.811	-12.655	-16.891	1.00	29.72	H	C
ATOM	8859	O	PHE	H	154	16.451	-11.692	-16.196	1.00	34.72	H	O
ATOM	8861	N	PRO	H	155	16.122	-13.051	-17.971	1.00	28.19	H	N
ATOM	8862	CA	PRO	H	155	16.424	-14.094	-18.977	1.00	29.98	H	C
ATOM	8864	CB	PRO	H	155	15.056	-14.339	-19.617	1.00	31.81	H	C
ATOM	8867	CG	PRO	H	155	14.393	-12.997	-19.557	1.00	30.17	H	C
ATOM	8870	CD	PRO	H	155	14.824	-12.403	-18.238	1.00	28.41	H	C
ATOM	8873	C	PRO	H	155	17.403	-13.624	-20.046	1.00	30.23	H	C
ATOM	8874	O	PRO	H	155	18.026	-12.588	-19.897	1.00	32.39	H	O
ATOM	8875	N	GLU	H	156	17.541	-14.387	-21.121	1.00	30.02	H	N
ATOM	8876	CA	GLU	H	156	18.088	-13.837	-22.346	1.00	29.65	H	C
ATOM	8878	CB	GLU	H	156	18.420	-14.957	-23.334	1.00	28.94	H	C
ATOM	8881	CG	GLU	H	156	19.667	-15.759	-22.979	1.00	28.50	H	C
ATOM	8884	CD	GLU	H	156	20.933	-15.184	-23.591	1.00	32.86	H	C
ATOM	8885	OE1	GLU	H	156	21.147	-13.954	-23.502	1.00	33.46	H	O
ATOM	8886	OE2	GLU	H	156	21.714	-15.970	-24.169	1.00	35.71	H	O
ATOM	8887	C	GLU	H	156	17.043	-12.875	-22.942	1.00	30.49	H	C
ATOM	8888	O	GLU	H	156	15.865	-12.927	-22.568	1.00	27.37	H	O
ATOM	8890	N	PRO	H	157	17.463	-11.990	-23.871	1.00	29.67	H	N
ATOM	8891	CA	PRO	H	157	18.823	-11.747	-24.334	1.00	30.63	H	C
ATOM	8893	CB	PRO	H	157	18.641	-11.662	-25.850	1.00	28.90	H	C
ATOM	8896	CG	PRO	H	157	17.218	-11.160	-26.033	1.00	28.41	H	C
ATOM	8899	CD	PRO	H	157	16.527	-11.188	-24.662	1.00	26.70	H	C
ATOM	8902	C	PRO	H	157	19.435	-10.445	-23.820	1.00	30.25	H	C
ATOM	8903	O	PRO	H	157	18.745	-9.581	-23.286	1.00	30.38	H	O
ATOM	8904	N	VAL	H	158	20.743	-10.335	-23.993	1.00	33.31	H	N
ATOM	8905	CA	VAL	H	158	21.472	-9.110	-23.742	1.00	35.79	H	C

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ATOM	8907	CB	VAL	H	158	22.574	-9.346	-22.672	1.00	36.57	H	C
ATOM	8909	CG1	VAL	H	158	23.718	-8.354	-22.807	1.00	35.84	H	C
ATOM	8913	CG2	VAL	H	158	21.964	-9.270	-21.280	1.00	39.04	H	C
ATOM	8917	C	VAL	H	158	22.065	-8.670	-25.076	1.00	38.64	H	C
ATOM	8918	O	VAL	H	158	22.383	-9.511	-25.917	1.00	38.95	H	O
ATOM	8920	N	THR	H	159	22.171	-7.360	-25.285	1.00	38.90	H	N
ATOM	8921	CA	THR	H	159	22.879	-6.821	-26.448	1.00	37.16	H	C
ATOM	8923	CB	THR	H	159	21.970	-5.923	-27.314	1.00	38.92	H	C
ATOM	8925	OG1	THR	H	159	21.381	-4.906	-26.497	1.00	41.56	H	O
ATOM	8927	CG2	THR	H	159	20.869	-6.742	-27.963	1.00	39.04	H	C
ATOM	8931	C	THR	H	159	24.085	-6.020	-25.963	1.00	37.27	H	C
ATOM	8932	O	THR	H	159	24.012	-5.326	-24.947	1.00	32.88	H	O
ATOM	8934	N	VAL	H	160	25.198	-6.136	-26.677	1.00	34.27	H	N
ATOM	8935	CA	VAL	H	160	26.406	-5.400	-26.339	1.00	32.63	H	C
ATOM	8937	CB	VAL	H	160	27.470	-6.292	-25.654	1.00	28.82	H	C
ATOM	8939	CG1	VAL	H	160	28.608	-5.433	-25.087	1.00	27.01	H	C
ATOM	8943	CG2	VAL	H	160	26.846	-7.136	-24.548	1.00	26.36	H	C
ATOM	8947	C	VAL	H	160	26.996	-4.769	-27.599	1.00	33.92	H	C
ATOM	8948	O	VAL	H	160	27.255	-5.457	-28.600	1.00	33.73	H	O
ATOM	8950	N	SER	H	161	27.187	-3.454	-27.543	1.00	38.78	H	N
ATOM	8951	CA	SER	H	161	27.907	-2.712	-28.577	1.00	38.50	H	C
ATOM	8953	CB	SER	H	161	26.962	-1.744	-29.318	1.00	41.32	H	C
ATOM	8956	OG	SER	H	161	26.289	-0.859	-28.428	1.00	40.60	H	O
ATOM	8958	C	SER	H	161	29.089	-1.966	-27.938	1.00	36.58	H	C
ATOM	8959	O	SER	H	161	29.195	-1.877	-26.713	1.00	28.41	H	O
ATOM	8961	N	TRP	H	162	29.979	-1.454	-28.782	1.00	38.67	H	N
ATOM	8962	CA	TRP	H	162	31.176	-0.761	-28.330	1.00	40.23	H	C
ATOM	8964	CB	TRP	H	162	32.414	-1.546	-28.744	1.00	39.85	H	C
ATOM	8967	CG	TRP	H	162	32.665	-2.733	-27.892	1.00	40.70	H	C
ATOM	8968	CD1	TRP	H	162	32.249	-4.013	-28.122	1.00	39.62	H	C
ATOM	8970	NE1	TRP	H	162	32.672	-4.836	-27.106	1.00	40.17	H	N
ATOM	8972	CE2	TRP	H	162	33.381	-4.094	-26.198	1.00	40.23	H	C
ATOM	8973	CD2	TRP	H	162	33.394	-2.759	-26.662	1.00	39.34	H	C
ATOM	8974	CE3	TRP	H	162	34.057	-1.786	-25.905	1.00	39.41	H	C
ATOM	8976	CZ3	TRP	H	162	34.682	-2.171	-24.725	1.00	39.91	H	C
ATOM	8978	CH2	TRP	H	162	34.653	-3.507	-24.290	1.00	40.48	H	C
ATOM	8980	CZ2	TRP	H	162	34.007	-4.480	-25.009	1.00	39.65	H	C
ATOM	8982	C	TRP	H	162	31.233	0.638	-28.928	1.00	40.19	H	C
ATOM	8983	O	TRP	H	162	31.178	0.780	-30.151	1.00	40.20	H	O
ATOM	8985	N	ASN	H	163	31.357	1.653	-28.070	1.00	39.33	H	N
ATOM	8986	CA	ASN	H	163	31.370	3.057	-28.498	1.00	41.89	H	C
ATOM	8988	CB	ASN	H	163	32.620	3.367	-29.339	1.00	40.11	H	C
ATOM	8991	CG	ASN	H	163	33.911	3.215	-28.569	1.00	38.26	H	C
ATOM	8992	OD1	ASN	H	163	33.926	3.170	-27.342	1.00	36.78	H	O
ATOM	8993	ND2	ASN	H	163	35.016	3.156	-29.301	1.00	39.32	H	N
ATOM	8996	C	ASN	H	163	30.118	3.421	-29.302	1.00	43.33	H	C
ATOM	8997	O	ASN	H	163	30.221	3.864	-30.448	1.00	47.68	H	O
ATOM	8999	N	SER	H	164	28.946	3.234	-28.694	1.00	44.23	H	N
ATOM	9000	CA	SER	H	164	27.637	3.355	-29.373	1.00	45.69	H	C
ATOM	9002	CB	SER	H	164	27.146	4.807	-29.339	1.00	46.17	H	C
ATOM	9005	OG	SER	H	164	26.996	5.257	-28.005	1.00	46.29	H	O
ATOM	9007	C	SER	H	164	27.603	2.829	-30.819	1.00	47.27	H	C
ATOM	9008	O	SER	H	164	26.992	3.442	-31.696	1.00	50.59	H	O
ATOM	9010	N	GLY	H	165	28.246	1.692	-31.062	1.00	47.27	H	N
ATOM	9011	CA	GLY	H	165	28.259	1.074	-32.392	1.00	47.10	H	C
ATOM	9014	C	GLY	H	165	29.407	1.515	-33.287	1.00	48.35	H	C
ATOM	9015	O	GLY	H	165	29.586	0.961	-34.374	1.00	49.52	H	O
ATOM	9017	N	ALA	H	166	30.186	2.503	-32.836	1.00	49.45	H	N
ATOM	9018	CA	ALA	H	166	31.331	3.017	-33.601	1.00	48.41	H	C
ATOM	9020	CB	ALA	H	166	31.922	4.227	-32.914	1.00	46.76	H	C
ATOM	9024	C	ALA	H	166	32.409	1.960	-33.793	1.00	48.52	H	C
ATOM	9025	O	ALA	H	166	33.027	1.885	-34.857	1.00	48.82	H	O
ATOM	9027	N	LEU	H	167	32.639	1.163	-32.751	1.00	48.29	H	N
ATOM	9028	CA	LEU	H	167	33.620	0.079	-32.782	1.00	49.19	H	C
ATOM	9030	CB	LEU	H	167	34.402	0.049	-31.464	1.00	47.51	H	C
ATOM	9033	CG	LEU	H	167	35.550	-0.954	-31.316	1.00	47.32	H	C
ATOM	9035	CD1	LEU	H	167	36.635	-0.742	-32.372	1.00	46.59	H	C
ATOM	9039	CD2	LEU	H	167	36.134	-0.868	-29.914	1.00	45.00	H	C

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ATOM	9043	C	LEU	H	167	32.907	-1.257	-33.032	1.00	50.84	H	C
ATOM	9044	O	LEU	H	167	32.134	-1.724	-32.191	1.00	52.27	H	O
ATOM	9046	N	THR	H	168	33.138	-1.842	-34.205	1.00	50.59	H	N
ATOM	9047	CA	THR	H	168	32.535	-3.130	-34.561	1.00	50.34	H	C
ATOM	9049	CB	THR	H	168	31.543	-3.002	-35.742	1.00	51.41	H	C
ATOM	9051	OG1	THR	H	168	32.250	-2.610	-36.923	1.00	53.75	H	O
ATOM	9053	CG2	THR	H	168	30.451	-1.995	-35.438	1.00	49.48	H	C
ATOM	9057	C	THR	H	168	33.576	-4.189	-34.929	1.00	52.27	H	C
ATOM	9058	O	THR	H	168	33.372	-5.373	-34.655	1.00	55.41	H	O
ATOM	9060	N	SER	H	169	34.671	-3.770	-35.563	1.00	51.37	H	N
ATOM	9061	CA	SER	H	169	35.729	-4.690	-35.987	1.00	49.68	H	C
ATOM	9063	CB	SER	H	169	36.619	-4.018	-37.040	1.00	53.49	H	C
ATOM	9066	OG	SER	H	169	37.749	-4.816	-37.347	1.00	56.68	H	O
ATOM	9068	C	SER	H	169	36.582	-5.176	-34.804	1.00	47.96	H	C
ATOM	9069	O	SER	H	169	36.931	-4.403	-33.918	1.00	48.63	H	O
ATOM	9071	N	GLY	H	170	36.907	-6.470	-34.803	1.00	47.65	H	N
ATOM	9072	CA	GLY	H	170	37.636	-7.097	-33.704	1.00	43.21	H	C
ATOM	9075	C	GLY	H	170	36.758	-7.537	-32.539	1.00	39.10	H	C
ATOM	9076	O	GLY	H	170	37.227	-8.268	-31.671	1.00	37.37	H	O
ATOM	9078	N	VAL	H	171	35.491	-7.107	-32.521	1.00	36.51	H	N
ATOM	9079	CA	VAL	H	171	34.548	-7.432	-31.441	1.00	36.21	H	C
ATOM	9081	CB	VAL	H	171	33.284	-6.518	-31.464	1.00	34.32	H	C
ATOM	9083	CG1	VAL	H	171	32.200	-7.046	-30.516	1.00	34.84	H	C
ATOM	9087	CG2	VAL	H	171	33.643	-5.078	-31.118	1.00	29.74	H	C
ATOM	9091	C	VAL	H	171	34.096	-8.891	-31.532	1.00	36.36	H	C
ATOM	9092	O	VAL	H	171	33.739	-9.374	-32.604	1.00	38.22	H	O
ATOM	9094	N	HIS	H	172	34.143	-9.580	-30.394	1.00	37.16	H	N
ATOM	9095	CA	HIS	H	172	33.632	-10.933	-30.260	1.00	31.63	H	C
ATOM	9097	CB	HIS	H	172	34.780	-11.928	-30.126	1.00	30.84	H	C
ATOM	9100	CG	HIS	H	172	35.543	-12.152	-31.391	1.00	29.89	H	C
ATOM	9101	ND1	HIS	H	172	34.947	-12.611	-32.545	1.00	31.55	H	N
ATOM	9103	CE1	HIS	H	172	35.860	-12.733	-33.492	1.00	31.14	H	C
ATOM	9105	NE2	HIS	H	172	37.029	-12.379	-32.991	1.00	32.03	H	N
ATOM	9107	CD2	HIS	H	172	36.857	-12.008	-31.678	1.00	31.79	H	C
ATOM	9109	C	HIS	H	172	32.793	-10.961	-28.998	1.00	30.29	H	C
ATOM	9110	O	HIS	H	172	33.321	-10.888	-27.905	1.00	28.68	H	O
ATOM	9112	N	THR	H	173	31.477	-11.014	-29.153	1.00	32.85	H	N
ATOM	9113	CA	THR	H	173	30.574	-11.195	-28.019	1.00	30.63	H	C
ATOM	9115	CB	THR	H	173	29.316	-10.324	-28.173	1.00	31.25	H	C
ATOM	9117	OG1	THR	H	173	29.707	-8.946	-28.322	1.00	29.82	H	O
ATOM	9119	CG2	THR	H	173	28.394	-10.485	-26.969	1.00	28.11	H	C
ATOM	9123	C	THR	H	173	30.232	-12.691	-27.986	1.00	28.88	H	C
ATOM	9124	O	THR	H	173	29.845	-13.258	-29.000	1.00	25.13	H	O
ATOM	9126	N	PHE	H	174	30.409	-13.325	-26.829	1.00	27.87	H	N
ATOM	9127	CA	PHE	H	174	30.294	-14.780	-26.721	1.00	26.01	H	C
ATOM	9129	CB	PHE	H	174	31.280	-15.335	-25.686	1.00	23.16	H	C
ATOM	9132	CG	PHE	H	174	32.707	-15.185	-26.087	1.00	22.10	H	C
ATOM	9133	CD1	PHE	H	174	33.282	-16.071	-26.965	1.00	22.06	H	C
ATOM	9135	CE1	PHE	H	174	34.591	-15.923	-27.343	1.00	24.20	H	C
ATOM	9137	CZ	PHE	H	174	35.341	-14.882	-26.868	1.00	21.23	H	C
ATOM	9139	CE2	PHE	H	174	34.781	-13.992	-26.012	1.00	24.45	H	C
ATOM	9141	CD2	PHE	H	174	33.464	-14.139	-25.624	1.00	22.54	H	C
ATOM	9143	C	PHE	H	174	28.887	-15.183	-26.343	1.00	23.27	H	C
ATOM	9144	O	PHE	H	174	28.229	-14.471	-25.571	1.00	29.38	H	O
ATOM	9146	N	PRO	H	175	28.416	-16.328	-26.876	1.00	24.86	H	N
ATOM	9147	CA	PRO	H	175	27.127	-16.855	-26.466	1.00	25.91	H	C
ATOM	9149	CB	PRO	H	175	27.142	-18.283	-27.026	1.00	29.50	H	C
ATOM	9152	CG	PRO	H	175	27.971	-18.179	-28.263	1.00	29.48	H	C
ATOM	9155	CD	PRO	H	175	29.054	-17.192	-27.897	1.00	29.12	H	C
ATOM	9158	C	PRO	H	175	27.029	-16.895	-24.960	1.00	23.47	H	C
ATOM	9159	O	PRO	H	175	27.975	-17.326	-24.307	1.00	17.17	H	O
ATOM	9160	N	ALA	H	176	25.914	-16.423	-24.416	1.00	29.78	H	N
ATOM	9161	CA	ALA	H	176	25.651	-16.552	-22.981	1.00	31.63	H	C
ATOM	9163	CB	ALA	H	176	24.312	-15.929	-22.636	1.00	29.92	H	C
ATOM	9167	C	ALA	H	176	25.666	-18.035	-22.608	1.00	36.78	H	C
ATOM	9168	O	ALA	H	176	25.227	-18.887	-23.398	1.00	42.01	H	O
ATOM	9170	N	VAL	H	177	26.211	-18.340	-21.433	1.00	38.99	H	N
ATOM	9171	CA	VAL	H	177	26.134	-19.683	-20.856	1.00	37.55	H	C

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ATOM	9173	CB	VAL	H	177	27.535	-20.337	-20.632	1.00	39.73	H	C
ATOM	9175	CG1	VAL	H	177	28.296	-20.424	-21.949	1.00	42.86	H	C
ATOM	9179	CG2	VAL	H	177	28.356	-19.583	-19.576	1.00	43.69	H	C
ATOM	9183	C	VAL	H	177	25.399	-19.561	-19.542	1.00	34.96	H	C
ATOM	9184	O	VAL	H	177	25.551	-18.565	-18.842	1.00	36.75	H	O
ATOM	9186	N	LEU	H	178	24.585	-20.560	-19.219	1.00	36.02	H	N
ATOM	9187	CA	LEU	H	178	23.877	-20.581	-17.939	1.00	37.20	H	C
ATOM	9189	CB	LEU	H	178	22.613	-21.447	-18.006	1.00	35.83	H	C
ATOM	9192	CG	LEU	H	178	21.592	-21.185	-16.892	1.00	36.22	H	C
ATOM	9194	CD1	LEU	H	178	20.875	-19.859	-17.116	1.00	34.05	H	C
ATOM	9198	CD2	LEU	H	178	20.584	-22.326	-16.785	1.00	36.81	H	C
ATOM	9202	C	LEU	H	178	24.830	-21.092	-16.862	1.00	37.16	H	C
ATOM	9203	O	LEU	H	178	25.556	-22.066	-17.071	1.00	38.80	H	O
ATOM	9205	N	GLN	H	179	24.842	-20.403	-15.728	1.00	36.47	H	N
ATOM	9206	CA	GLN	H	179	25.704	-20.752	-14.607	1.00	38.38	H	C
ATOM	9208	CB	GLN	H	179	26.153	-19.494	-13.859	1.00	37.22	H	C
ATOM	9211	CG	GLN	H	179	26.936	-18.507	-14.712	1.00	35.37	H	C
ATOM	9214	CD	GLN	H	179	27.083	-17.156	-14.053	1.00	36.16	H	C
ATOM	9215	OE1	GLN	H	179	26.099	-16.558	-13.608	1.00	32.55	H	O
ATOM	9216	NE2	GLN	H	179	28.315	-16.655	-14.001	1.00	35.83	H	N
ATOM	9219	C	GLN	H	179	24.942	-21.652	-13.657	1.00	39.66	H	C
ATOM	9220	O	GLN	H	179	23.717	-21.757	-13.739	1.00	39.79	H	O
ATOM	9222	N	SER	H	180	25.667	-22.279	-12.735	1.00	39.11	H	N
ATOM	9223	CA	SER	H	180	25.050	-23.176	-11.761	1.00	38.91	H	C
ATOM	9225	CB	SER	H	180	26.114	-23.761	-10.836	1.00	39.16	H	C
ATOM	9228	OG	SER	H	180	25.860	-25.134	-10.615	1.00	42.49	H	O
ATOM	9230	C	SER	H	180	23.961	-22.440	-10.967	1.00	37.72	H	C
ATOM	9231	O	SER	H	180	22.995	-23.039	-10.487	1.00	35.14	H	O
ATOM	9233	N	SER	H	181	24.135	-21.126	-10.863	1.00	39.95	H	N
ATOM	9234	CA	SER	H	181	23.162	-20.216	-10.273	1.00	40.21	H	C
ATOM	9236	CB	SER	H	181	23.768	-18.808	-10.262	1.00	41.56	H	C
ATOM	9239	OG	SER	H	181	22.832	-17.854	-9.809	1.00	45.06	H	O
ATOM	9241	C	SER	H	181	21.793	-20.162	-10.978	1.00	39.65	H	C
ATOM	9242	O	SER	H	181	20.800	-19.742	-10.371	1.00	36.62	H	O
ATOM	9244	N	GLY	H	182	21.739	-20.572	-12.247	1.00	39.36	H	N
ATOM	9245	CA	GLY	H	182	20.548	-20.375	-13.081	1.00	37.39	H	C
ATOM	9248	C	GLY	H	182	20.442	-18.941	-13.592	1.00	38.25	H	C
ATOM	9249	O	GLY	H	182	19.343	-18.460	-13.907	1.00	38.14	H	O
ATOM	9251	N	LEU	H	183	21.587	-18.256	-13.655	1.00	37.01	H	N
ATOM	9252	CA	LEU	H	183	21.682	-16.887	-14.168	1.00	34.15	H	C
ATOM	9254	CB	LEU	H	183	22.129	-15.916	-13.076	1.00	34.54	H	C
ATOM	9257	CG	LEU	H	183	21.222	-15.677	-11.876	1.00	33.56	H	C
ATOM	9259	CD1	LEU	H	183	21.883	-14.688	-10.940	1.00	33.42	H	C
ATOM	9263	CD2	LEU	H	183	19.861	-15.172	-12.313	1.00	36.28	H	C
ATOM	9267	C	LEU	H	183	22.705	-16.869	-15.295	1.00	33.79	H	C
ATOM	9268	O	LEU	H	183	23.712	-17.581	-15.240	1.00	32.18	H	O
ATOM	9270	N	TYR	H	184	22.453	-16.046	-16.307	1.00	31.66	H	N
ATOM	9271	CA	TYR	H	184	23.315	-16.006	-17.475	1.00	30.92	H	C
ATOM	9273	CB	TYR	H	184	22.541	-15.510	-18.720	1.00	34.29	H	C
ATOM	9276	CG	TYR	H	184	21.650	-16.575	-19.328	1.00	33.02	H	C
ATOM	9277	CD1	TYR	H	184	22.198	-17.611	-20.071	1.00	33.13	H	C
ATOM	9279	CE1	TYR	H	184	21.402	-18.602	-20.622	1.00	33.68	H	C
ATOM	9281	CZ	TYR	H	184	20.038	-18.567	-20.427	1.00	33.95	H	C
ATOM	9282	OH	TYR	H	184	19.263	-19.560	-20.982	1.00	34.13	H	O
ATOM	9284	CE2	TYR	H	184	19.462	-17.549	-19.684	1.00	33.90	H	C
ATOM	9286	CD2	TYR	H	184	20.269	-16.560	-19.137	1.00	32.94	H	C
ATOM	9288	C	TYR	H	184	24.561	-15.164	-17.228	1.00	26.66	H	C
ATOM	9289	O	TYR	H	184	24.586	-14.315	-16.340	1.00	23.69	H	O
ATOM	9291	N	SER	H	185	25.596	-15.444	-18.014	1.00	24.96	H	N
ATOM	9292	CA	SER	H	185	26.819	-14.662	-18.025	1.00	27.07	H	C
ATOM	9294	CB	SER	H	185	27.820	-15.218	-17.014	1.00	31.24	H	C
ATOM	9297	OG	SER	H	185	28.687	-14.211	-16.526	1.00	29.97	H	O
ATOM	9299	C	SER	H	185	27.408	-14.744	-19.417	1.00	26.32	H	C
ATOM	9300	O	SER	H	185	27.370	-15.795	-20.020	1.00	22.17	H	O
ATOM	9302	N	LEU	H	186	27.898	-13.625	-19.940	1.00	26.06	H	N
ATOM	9303	CA	LEU	H	186	28.757	-13.637	-21.123	1.00	27.04	H	C
ATOM	9305	CB	LEU	H	186	27.949	-13.451	-22.417	1.00	27.30	H	C
ATOM	9308	CG	LEU	H	186	27.073	-12.213	-22.628	1.00	26.09	H	C

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ATOM	9310	CD1	LEU	H	186	27.921	-11.031	-23.040	1.00	27.47	H	C
ATOM	9314	CD2	LEU	H	186	25.996	-12.494	-23.688	1.00	27.16	H	C
ATOM	9318	C	LEU	H	186	29.822	-12.559	-20.987	1.00	29.25	H	C
ATOM	9319	O	LEU	H	186	29.758	-11.710	-20.098	1.00	28.27	H	O
ATOM	9321	N	SER	H	187	30.826	-12.632	-21.846	1.00	28.56	H	N
ATOM	9322	CA	SER	H	187	31.824	-11.584	-21.960	1.00	29.45	H	C
ATOM	9324	CB	SER	H	187	33.225	-12.113	-21.629	1.00	31.43	H	C
ATOM	9327	OG	SER	H	187	33.390	-12.319	-20.230	1.00	34.09	H	O
ATOM	9329	C	SER	H	187	31.770	-11.075	-23.396	1.00	29.63	H	C
ATOM	9330	O	SER	H	187	31.396	-11.807	-24.308	1.00	22.96	H	O
ATOM	9332	N	SER	H	188	32.104	-9.802	-23.575	1.00	31.30	H	N
ATOM	9333	CA	SER	H	188	32.293	-9.235	-24.889	1.00	30.41	H	C
ATOM	9335	CB	SER	H	188	31.291	-8.114	-25.158	1.00	30.88	H	C
ATOM	9338	OG	SER	H	188	31.378	-7.715	-26.515	1.00	33.80	H	O
ATOM	9340	C	SER	H	188	33.696	-8.683	-24.928	1.00	30.01	H	C
ATOM	9341	O	SER	H	188	34.050	-7.844	-24.121	1.00	29.88	H	O
ATOM	9343	N	VAL	H	189	34.498	-9.152	-25.865	1.00	29.49	H	N
ATOM	9344	CA	VAL	H	189	35.867	-8.690	-25.953	1.00	30.73	H	C
ATOM	9346	CB	VAL	H	189	36.877	-9.848	-25.851	1.00	25.82	H	C
ATOM	9348	CG1	VAL	H	189	36.718	-10.576	-24.515	1.00	21.43	H	C
ATOM	9352	CG2	VAL	H	189	36.723	-10.815	-27.032	1.00	25.88	H	C
ATOM	9356	C	VAL	H	189	36.064	-7.945	-27.255	1.00	31.03	H	C
ATOM	9357	O	VAL	H	189	35.262	-8.053	-28.174	1.00	30.72	H	O
ATOM	9359	N	VAL	H	190	37.129	-7.161	-27.304	1.00	37.49	H	N
ATOM	9360	CA	VAL	H	190	37.534	-6.496	-28.526	1.00	38.09	H	C
ATOM	9362	CB	VAL	H	190	36.823	-5.122	-28.709	1.00	38.25	H	C
ATOM	9364	CG1	VAL	H	190	37.301	-4.109	-27.693	1.00	40.15	H	C
ATOM	9368	CG2	VAL	H	190	37.021	-4.608	-30.123	1.00	38.47	H	C
ATOM	9372	C	VAL	H	190	39.058	-6.378	-28.538	1.00	39.18	H	C
ATOM	9373	O	VAL	H	190	39.705	-6.232	-27.494	1.00	35.47	H	O
ATOM	9375	N	THR	H	191	39.617	-6.492	-29.735	1.00	39.82	H	N
ATOM	9376	CA	THR	H	191	41.046	-6.412	-29.940	1.00	40.25	H	C
ATOM	9378	CB	THR	H	191	41.528	-7.660	-30.733	1.00	41.71	H	C
ATOM	9380	OG1	THR	H	191	42.788	-8.091	-30.225	1.00	43.68	H	O
ATOM	9382	CG2	THR	H	191	41.623	-7.401	-32.238	1.00	43.13	H	C
ATOM	9386	C	THR	H	191	41.329	-5.071	-30.641	1.00	40.06	H	C
ATOM	9387	O	THR	H	191	40.665	-4.725	-31.631	1.00	37.80	H	O
ATOM	9389	N	VAL	H	192	42.265	-4.293	-30.088	1.00	42.79	H	N
ATOM	9390	CA	VAL	H	192	42.561	-2.935	-30.583	1.00	43.28	H	C
ATOM	9392	CB	VAL	H	192	41.786	-1.850	-29.780	1.00	39.99	H	C
ATOM	9394	CG1	VAL	H	192	40.281	-2.119	-29.818	1.00	36.90	H	C
ATOM	9398	CG2	VAL	H	192	42.297	-1.765	-28.336	1.00	37.65	H	C
ATOM	9402	C	VAL	H	192	44.073	-2.629	-30.538	1.00	46.49	H	C
ATOM	9403	O	VAL	H	192	44.816	-3.319	-29.848	1.00	46.83	H	O
ATOM	9405	N	PRO	H	193	44.533	-1.598	-31.278	1.00	49.11	H	N
ATOM	9406	CA	PRO	H	193	45.952	-1.249	-31.233	1.00	48.46	H	C
ATOM	9408	CB	PRO	H	193	46.068	-0.093	-32.236	1.00	50.63	H	C
ATOM	9411	CG	PRO	H	193	44.853	-0.167	-33.079	1.00	50.70	H	C
ATOM	9414	CD	PRO	H	193	43.788	-0.720	-32.200	1.00	51.30	H	C
ATOM	9417	C	PRO	H	193	46.391	-0.782	-29.853	1.00	49.46	H	C
ATOM	9418	O	PRO	H	193	45.711	0.041	-29.242	1.00	49.52	H	O
ATOM	9419	N	SER	H	194	47.524	-1.292	-29.376	1.00	50.04	H	N
ATOM	9420	CA	SER	H	194	48.049	-0.923	-28.060	1.00	52.64	H	C
ATOM	9422	CB	SER	H	194	49.153	-1.895	-27.648	1.00	54.75	H	C
ATOM	9425	OG	SER	H	194	50.029	-2.135	-28.732	1.00	58.42	H	O
ATOM	9427	C	SER	H	194	48.561	0.530	-28.002	1.00	54.25	H	C
ATOM	9428	O	SER	H	194	48.720	1.094	-26.919	1.00	53.05	H	O
ATOM	9430	N	SER	H	195	48.823	1.118	-29.169	1.00	54.90	H	N
ATOM	9431	CA	SER	H	195	49.124	2.539	-29.281	1.00	53.83	H	C
ATOM	9433	CB	SER	H	195	49.516	2.893	-30.724	1.00	53.59	H	C
ATOM	9436	OG	SER	H	195	48.427	2.715	-31.620	1.00	51.84	H	O
ATOM	9438	C	SER	H	195	47.920	3.383	-28.856	1.00	55.17	H	C
ATOM	9439	O	SER	H	195	48.086	4.441	-28.243	1.00	57.09	H	O
ATOM	9441	N	SER	H	196	46.715	2.903	-29.169	1.00	52.07	H	N
ATOM	9442	CA	SER	H	196	45.484	3.678	-28.966	1.00	51.60	H	C
ATOM	9444	CB	SER	H	196	44.396	3.196	-29.927	1.00	49.97	H	C
ATOM	9447	OG	SER	H	196	43.749	2.048	-29.409	1.00	49.21	H	O
ATOM	9449	C	SER	H	196	44.921	3.645	-27.540	1.00	50.21	H	C

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ATOM	9450	O	SER	H	196	43.903	4.273	-27.273	1.00	49.96	H	O
ATOM	9452	N	LEU	H	197	45.560	2.913	-26.635	1.00	50.19	H	N
ATOM	9453	CA	LEU	H	197	45.056	2.798	-25.269	1.00	49.85	H	C
ATOM	9455	CB	LEU	H	197	45.903	1.811	-24.456	1.00	50.12	H	C
ATOM	9458	CG	LEU	H	197	45.521	0.322	-24.553	1.00	50.11	H	C
ATOM	9460	CD1	LEU	H	197	45.037	-0.081	-25.938	1.00	47.91	H	C
ATOM	9464	CD2	LEU	H	197	46.693	-0.555	-24.118	1.00	49.12	H	C
ATOM	9468	C	LEU	H	197	44.976	4.160	-24.569	1.00	50.90	H	C
ATOM	9469	O	LEU	H	197	43.951	4.485	-23.978	1.00	51.36	H	O
ATOM	9471	N	GLY	H	198	46.042	4.956	-24.649	1.00	50.28	H	N
ATOM	9472	CA	GLY	H	198	46.054	6.296	-24.049	1.00	48.80	H	C
ATOM	9475	C	GLY	H	198	45.179	7.328	-24.757	1.00	47.41	H	C
ATOM	9476	O	GLY	H	198	44.683	8.264	-24.131	1.00	44.62	H	O
ATOM	9478	N	THR	H	199	44.996	7.152	-26.063	1.00	48.80	H	N
ATOM	9479	CA	THR	H	199	44.210	8.070	-26.893	1.00	48.64	H	C
ATOM	9481	CB	THR	H	199	44.681	8.005	-28.368	1.00	51.11	H	C
ATOM	9483	OG1	THR	H	199	46.031	8.473	-28.465	1.00	54.24	H	O
ATOM	9485	CG2	THR	H	199	43.789	8.850	-29.262	1.00	52.40	H	C
ATOM	9489	C	THR	H	199	42.712	7.755	-26.863	1.00	47.77	H	C
ATOM	9490	O	THR	H	199	41.911	8.552	-26.380	1.00	44.62	H	O
ATOM	9492	N	GLN	H	200	42.351	6.582	-27.384	1.00	47.14	H	N
ATOM	9493	CA	GLN	H	200	40.955	6.209	-27.621	1.00	46.51	H	C
ATOM	9495	CB	GLN	H	200	40.895	5.138	-28.717	1.00	44.42	H	C
ATOM	9498	CG	GLN	H	200	39.499	4.738	-29.182	1.00	45.90	H	C
ATOM	9501	CD	GLN	H	200	38.848	5.762	-30.098	1.00	45.82	H	C
ATOM	9502	OE1	GLN	H	200	38.205	6.700	-29.635	1.00	47.41	H	O
ATOM	9503	NE2	GLN	H	200	38.985	5.565	-31.405	1.00	42.97	H	N
ATOM	9506	C	GLN	H	200	40.243	5.710	-26.357	1.00	45.65	H	C
ATOM	9507	O	GLN	H	200	40.792	4.933	-25.572	1.00	43.98	H	O
ATOM	9509	N	THR	H	201	39.005	6.161	-26.189	1.00	47.58	H	N
ATOM	9510	CA	THR	H	201	38.143	5.726	-25.095	1.00	47.21	H	C
ATOM	9512	CB	THR	H	201	37.309	6.911	-24.540	1.00	48.57	H	C
ATOM	9514	OG1	THR	H	201	36.771	6.566	-23.259	1.00	50.58	H	O
ATOM	9516	CG2	THR	H	201	36.175	7.288	-25.489	1.00	49.30	H	C
ATOM	9520	C	THR	H	201	37.229	4.580	-25.568	1.00	48.00	H	C
ATOM	9521	O	THR	H	201	36.686	4.615	-26.684	1.00	51.43	H	O
ATOM	9523	N	TYR	H	202	37.081	3.559	-24.724	1.00	44.88	H	N
ATOM	9524	CA	TYR	H	202	36.286	2.372	-25.058	1.00	39.70	H	C
ATOM	9526	CB	TYR	H	202	37.185	1.140	-25.124	1.00	35.33	H	C
ATOM	9529	CG	TYR	H	202	38.255	1.254	-26.172	1.00	34.47	H	C
ATOM	9530	CD1	TYR	H	202	37.925	1.257	-27.518	1.00	34.73	H	C
ATOM	9532	CE1	TYR	H	202	38.895	1.373	-28.497	1.00	34.69	H	C
ATOM	9534	CZ	TYR	H	202	40.221	1.482	-28.132	1.00	34.96	H	C
ATOM	9535	OH	TYR	H	202	41.177	1.593	-29.119	1.00	36.42	H	O
ATOM	9537	CE2	TYR	H	202	40.583	1.480	-26.792	1.00	35.40	H	C
ATOM	9539	CD2	TYR	H	202	39.597	1.370	-25.821	1.00	34.99	H	C
ATOM	9541	C	TYR	H	202	35.197	2.152	-24.022	1.00	36.55	H	C
ATOM	9542	O	TYR	H	202	35.485	1.823	-22.869	1.00	34.23	H	O
ATOM	9544	N	ILE	H	203	33.950	2.356	-24.432	1.00	36.39	H	N
ATOM	9545	CA	ILE	H	203	32.796	2.077	-23.580	1.00	37.78	H	C
ATOM	9547	CB	ILE	H	203	31.865	3.303	-23.431	1.00	39.65	H	C
ATOM	9549	CG1	ILE	H	203	32.619	4.490	-22.816	1.00	42.19	H	C
ATOM	9552	CD1	ILE	H	203	33.625	5.152	-23.748	1.00	44.25	H	C
ATOM	9556	CG2	ILE	H	203	30.655	2.953	-22.571	1.00	36.04	H	C
ATOM	9560	C	ILE	H	203	32.008	0.916	-24.181	1.00	35.64	H	C
ATOM	9561	O	ILE	H	203	31.814	0.857	-25.399	1.00	36.87	H	O
ATOM	9563	N	CYS	H	204	31.578	-0.017	-23.334	1.00	34.14	H	N
ATOM	9564	CA	CYS	H	204	30.712	-1.102	-23.782	1.00	35.14	H	C
ATOM	9566	CB	CYS	H	204	31.141	-2.470	-23.221	1.00	35.57	H	C
ATOM	9569	SG	CYS	H	204	30.976	-2.706	-21.433	1.00	36.48	H	S
ATOM	9571	C	CYS	H	204	29.272	-0.764	-23.415	1.00	33.78	H	C
ATOM	9572	O	CYS	H	204	28.963	-0.446	-22.262	1.00	31.37	H	O
ATOM	9574	N	ASN	H	205	28.406	-0.818	-24.422	1.00	32.13	H	N
ATOM	9575	CA	ASN	H	205	27.006	-0.466	-24.265	1.00	34.14	H	C
ATOM	9577	CB	ASN	H	205	26.497	0.346	-25.468	1.00	32.25	H	C
ATOM	9580	CG	ASN	H	205	27.581	1.213	-26.101	1.00	30.36	H	C
ATOM	9581	OD1	ASN	H	205	28.058	2.172	-25.500	1.00	30.91	H	O
ATOM	9582	ND2	ASN	H	205	27.968	0.873	-27.322	1.00	29.84	H	N

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ATOM	9585	C	ASN	H	205	26.227	-1.761	-24.119	1.00	35.10	H	C
ATOM	9586	O	ASN	H	205	26.039	-2.500	-25.095	1.00	37.58	H	O
ATOM	9588	N	VAL	H	206	25.825	-2.048	-22.886	1.00	33.48	H	N
ATOM	9589	CA	VAL	H	206	25.077	-3.250	-22.561	1.00	34.28	H	C
ATOM	9591	CB	VAL	H	206	25.601	-3.891	-21.249	1.00	33.76	H	C
ATOM	9593	CG1	VAL	H	206	24.809	-5.158	-20.909	1.00	31.24	H	C
ATOM	9597	CG2	VAL	H	206	27.097	-4.189	-21.367	1.00	29.08	H	C
ATOM	9601	C	VAL	H	206	23.609	-2.880	-22.388	1.00	34.22	H	C
ATOM	9602	O	VAL	H	206	23.291	-1.995	-21.599	1.00	26.04	H	O
ATOM	9604	N	ASN	H	207	22.724	-3.547	-23.134	1.00	35.45	H	N
ATOM	9605	CA	ASN	H	207	21.279	-3.390	-22.943	1.00	38.10	H	C
ATOM	9607	CB	ASN	H	207	20.614	-2.859	-24.220	1.00	43.60	H	C
ATOM	9610	CG	ASN	H	207	19.430	-1.934	-23.932	1.00	47.66	H	C
ATOM	9611	OD1	ASN	H	207	18.623	-2.177	-23.025	1.00	48.62	H	O
ATOM	9612	ND2	ASN	H	207	19.322	-0.866	-24.715	1.00	50.96	H	N
ATOM	9615	C	ASN	H	207	20.625	-4.709	-22.523	1.00	36.03	H	C
ATOM	9616	O	ASN	H	207	20.903	-5.758	-23.089	1.00	30.00	H	O
ATOM	9618	N	HIS	H	208	19.766	-4.645	-21.511	1.00	36.32	H	N
ATOM	9619	CA	HIS	H	208	18.966	-5.794	-21.090	1.00	36.55	H	C
ATOM	9621	CB	HIS	H	208	19.536	-6.377	-19.790	1.00	34.97	H	C
ATOM	9624	CG	HIS	H	208	18.887	-7.652	-19.354	1.00	34.50	H	C
ATOM	9625	ND1	HIS	H	208	18.871	-8.785	-20.137	1.00	35.85	H	N
ATOM	9627	CE1	HIS	H	208	18.234	-9.748	-19.498	1.00	34.42	H	C
ATOM	9629	NE2	HIS	H	208	17.850	-9.288	-18.321	1.00	34.44	H	N
ATOM	9631	CD2	HIS	H	208	18.250	-7.981	-18.205	1.00	33.47	H	C
ATOM	9633	C	HIS	H	208	17.495	-5.348	-20.946	1.00	36.02	H	C
ATOM	9634	O	HIS	H	208	17.093	-4.825	-19.907	1.00	31.60	H	O
ATOM	9636	N	LYS	H	209	16.717	-5.550	-22.013	1.00	36.40	H	N
ATOM	9637	CA	LYS	H	209	15.322	-5.094	-22.088	1.00	39.34	H	C
ATOM	9639	CB	LYS	H	209	14.723	-5.362	-23.478	1.00	40.78	H	C
ATOM	9642	CG	LYS	H	209	15.095	-4.345	-24.557	1.00	42.53	H	C
ATOM	9645	CD	LYS	H	209	14.731	-4.862	-25.953	1.00	42.18	H	C
ATOM	9648	CE	LYS	H	209	15.193	-3.922	-27.067	1.00	43.81	H	C
ATOM	9651	NZ	LYS	H	209	15.378	-4.642	-28.368	1.00	42.37	H	N
ATOM	9655	C	LYS	H	209	14.381	-5.682	-21.029	1.00	39.21	H	C
ATOM	9656	O	LYS	H	209	13.537	-4.960	-20.516	1.00	38.49	H	O
ATOM	9658	N	PRO	H	210	14.486	-6.995	-20.734	1.00	40.00	H	N
ATOM	9659	CA	PRO	H	210	13.590	-7.612	-19.745	1.00	40.15	H	C
ATOM	9661	CB	PRO	H	210	14.137	-9.037	-19.619	1.00	38.91	H	C
ATOM	9664	CG	PRO	H	210	14.787	-9.297	-20.910	1.00	37.78	H	C
ATOM	9667	CD	PRO	H	210	15.393	-7.994	-21.325	1.00	37.78	H	C
ATOM	9670	C	PRO	H	210	13.564	-6.940	-18.377	1.00	42.64	H	C
ATOM	9671	O	PRO	H	210	12.498	-6.859	-17.761	1.00	43.72	H	O
ATOM	9672	N	SER	H	211	14.720	-6.478	-17.906	1.00	43.72	H	N
ATOM	9673	CA	SER	H	211	14.808	-5.760	-16.632	1.00	43.75	H	C
ATOM	9675	CB	SER	H	211	16.027	-6.222	-15.841	1.00	43.73	H	C
ATOM	9678	OG	SER	H	211	17.226	-5.828	-16.485	1.00	43.23	H	O
ATOM	9680	C	SER	H	211	14.887	-4.253	-16.844	1.00	45.26	H	C
ATOM	9681	O	SER	H	211	14.859	-3.495	-15.878	1.00	43.07	H	O
ATOM	9683	N	ASN	H	212	14.984	-3.822	-18.102	1.00	46.57	H	N
ATOM	9684	CA	ASN	H	212	15.077	-2.402	-18.433	1.00	47.42	H	C
ATOM	9686	CB	ASN	H	212	13.867	-1.635	-17.842	1.00	49.69	H	C
ATOM	9689	CG	ASN	H	212	13.478	-0.403	-18.655	1.00	50.40	H	C
ATOM	9690	OD1	ASN	H	212	13.703	-0.337	-19.867	1.00	54.65	H	O
ATOM	9691	ND2	ASN	H	212	12.865	0.568	-17.989	1.00	51.36	H	N
ATOM	9694	C	ASN	H	212	16.410	-1.831	-17.929	1.00	47.98	H	C
ATOM	9695	O	ASN	H	212	16.453	-0.766	-17.303	1.00	47.48	H	O
ATOM	9697	N	THR	H	213	17.494	-2.560	-18.193	1.00	46.12	H	N
ATOM	9698	CA	THR	H	213	18.836	-2.130	-17.805	1.00	46.73	H	C
ATOM	9700	CB	THR	H	213	19.696	-3.305	-17.298	1.00	46.85	H	C
ATOM	9702	OG1	THR	H	213	19.026	-3.965	-16.220	1.00	47.58	H	O
ATOM	9704	CG2	THR	H	213	21.048	-2.815	-16.806	1.00	47.12	H	C
ATOM	9708	C	THR	H	213	19.547	-1.501	-18.994	1.00	46.65	H	C
ATOM	9709	O	THR	H	213	19.424	-1.974	-20.124	1.00	44.64	H	O
ATOM	9711	N	LYS	H	214	20.283	-0.428	-18.724	1.00	47.98	H	N
ATOM	9712	CA	LYS	H	214	21.147	0.204	-19.714	1.00	49.55	H	C
ATOM	9714	CB	LYS	H	214	20.443	1.411	-20.355	1.00	54.40	H	C
ATOM	9717	CG	LYS	H	214	20.610	1.519	-21.876	1.00	56.26	H	C

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ATOM	9720	CD	LYS	H	214	22.076	1.619	-22.322	1.00	57.59	H	C
ATOM	9723	CE	LYS	H	214	22.204	1.567	-23.850	1.00	57.70	H	C
ATOM	9726	NZ	LYS	H	214	23.594	1.832	-24.322	1.00	57.48	H	N
ATOM	9730	C	LYS	H	214	22.424	0.629	-18.991	1.00	48.04	H	C
ATOM	9731	O	LYS	H	214	22.390	1.522	-18.149	1.00	47.50	H	O
ATOM	9733	N	VAL	H	215	23.538	-0.036	-19.297	1.00	46.44	H	N
ATOM	9734	CA	VAL	H	215	24.801	0.213	-18.600	1.00	45.66	H	C
ATOM	9736	CB	VAL	H	215	25.198	-0.978	-17.694	1.00	43.78	H	C
ATOM	9738	CG1	VAL	H	215	26.599	-0.790	-17.127	1.00	42.93	H	C
ATOM	9742	CG2	VAL	H	215	24.193	-1.147	-16.568	1.00	44.07	H	C
ATOM	9746	C	VAL	H	215	25.910	0.477	-19.605	1.00	45.12	H	C
ATOM	9747	O	VAL	H	215	26.222	-0.378	-20.430	1.00	47.07	H	O
ATOM	9749	N	ASP	H	216	26.494	1.668	-19.532	1.00	45.31	H	N
ATOM	9750	CA	ASP	H	216	27.629	2.034	-20.366	1.00	45.40	H	C
ATOM	9752	CB	ASP	H	216	27.395	3.395	-21.022	1.00	47.46	H	C
ATOM	9755	CG	ASP	H	216	26.442	3.317	-22.202	1.00	51.27	H	C
ATOM	9756	OD1	ASP	H	216	25.317	3.853	-22.099	1.00	55.80	H	O
ATOM	9757	OD2	ASP	H	216	26.813	2.713	-23.232	1.00	51.16	H	O
ATOM	9758	C	ASP	H	216	28.874	2.060	-19.493	1.00	45.86	H	C
ATOM	9759	O	ASP	H	216	29.077	3.003	-18.724	1.00	47.40	H	O
ATOM	9761	N	LYS	H	217	29.694	1.014	-19.599	1.00	45.23	H	N
ATOM	9762	CA	LYS	H	217	30.909	0.884	-18.787	1.00	44.11	H	C
ATOM	9764	CB	LYS	H	217	31.039	-0.536	-18.215	1.00	45.21	H	C
ATOM	9767	CG	LYS	H	217	31.840	-0.623	-16.896	1.00	45.31	H	C
ATOM	9770	CD	LYS	H	217	30.948	-0.338	-15.680	1.00	46.34	H	C
ATOM	9773	CE	LYS	H	217	31.671	-0.555	-14.368	1.00	47.49	H	C
ATOM	9776	NZ	LYS	H	217	32.317	0.691	-13.844	1.00	49.31	H	N
ATOM	9780	C	LYS	H	217	32.145	1.223	-19.617	1.00	41.31	H	C
ATOM	9781	O	LYS	H	217	32.324	0.697	-20.720	1.00	33.85	H	O
ATOM	9783	N	LYS	H	218	32.979	2.110	-19.075	1.00	41.50	H	N
ATOM	9784	CA	LYS	H	218	34.271	2.451	-19.665	1.00	43.00	H	C
ATOM	9786	CB	LYS	H	218	34.733	3.836	-19.178	1.00	43.94	H	C
ATOM	9789	CG	LYS	H	218	36.054	4.359	-19.774	1.00	43.12	H	C
ATOM	9792	CD	LYS	H	218	36.530	5.590	-18.992	1.00	45.50	H	C
ATOM	9795	CE	LYS	H	218	37.821	6.222	-19.547	1.00	46.28	H	C
ATOM	9798	NZ	LYS	H	218	38.435	7.213	-18.577	1.00	43.55	H	N
ATOM	9802	C	LYS	H	218	35.273	1.383	-19.252	1.00	41.55	H	C
ATOM	9803	O	LYS	H	218	35.274	0.947	-18.101	1.00	38.50	H	O
ATOM	9805	N	VAL	H	219	36.110	0.959	-20.197	1.00	42.56	H	N
ATOM	9806	CA	VAL	H	219	37.134	-0.050	-19.934	1.00	42.78	H	C
ATOM	9808	CB	VAL	H	219	36.937	-1.324	-20.788	1.00	36.43	H	C
ATOM	9810	CG1	VAL	H	219	37.850	-2.420	-20.282	1.00	34.30	H	C
ATOM	9814	CG2	VAL	H	219	35.495	-1.782	-20.742	1.00	33.17	H	C
ATOM	9818	C	VAL	H	219	38.522	0.516	-20.208	1.00	43.97	H	C
ATOM	9819	O	VAL	H	219	38.885	0.783	-21.357	1.00	42.87	H	O
ATOM	9821	N	GLU	H	220	39.304	0.662	-19.145	1.00	46.37	H	N
ATOM	9822	CA	GLU	H	220	40.593	1.329	-19.228	1.00	50.43	H	C
ATOM	9824	CB	GLU	H	220	40.500	2.722	-18.603	1.00	51.55	H	C
ATOM	9827	CG	GLU	H	220	39.891	2.750	-17.200	1.00	53.31	H	C
ATOM	9830	CD	GLU	H	220	39.661	4.155	-16.677	1.00	54.48	H	C
ATOM	9831	OE1	GLU	H	220	39.765	5.120	-17.464	1.00	57.13	H	O
ATOM	9832	OE2	GLU	H	220	39.369	4.294	-15.470	1.00	55.85	H	O
ATOM	9833	C	GLU	H	220	41.674	0.507	-18.538	1.00	50.59	H	C
ATOM	9834	O	GLU	H	220	41.364	-0.283	-17.644	1.00	50.30	H	O
ATOM	9836	N	PRO	H	221	42.947	0.684	-18.960	1.00	52.89	H	N
ATOM	9837	CA	PRO	H	221	44.087	0.041	-18.304	1.00	54.91	H	C
ATOM	9839	CB	PRO	H	221	45.303	0.653	-19.013	1.00	53.94	H	C
ATOM	9842	CG	PRO	H	221	44.808	1.140	-20.302	1.00	53.01	H	C
ATOM	9845	CD	PRO	H	221	43.373	1.510	-20.107	1.00	53.35	H	C
ATOM	9848	C	PRO	H	221	44.142	0.372	-16.819	1.00	56.11	H	C
ATOM	9849	O	PRO	H	221	43.910	1.519	-16.449	1.00	55.83	H	O
ATOM	9850	N	LYS	H	222	44.438	-0.620	-15.983	1.00	59.29	H	N
ATOM	9851	CA	LYS	H	222	44.555	-0.389	-14.539	1.00	62.16	H	C
ATOM	9853	CB	LYS	H	222	44.428	-1.700	-13.751	1.00	64.18	H	C
ATOM	9856	CG	LYS	H	222	43.021	-1.984	-13.230	1.00	65.03	H	C
ATOM	9859	CD	LYS	H	222	43.057	-2.728	-11.898	1.00	64.95	H	C
ATOM	9862	CE	LYS	H	222	43.390	-1.787	-10.741	1.00	65.52	H	C
ATOM	9865	NZ	LYS	H	222	43.536	-2.515	-9.454	1.00	65.67	H	N

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ATOM	9869	C	LYS	H	222	45.877	0.295	-14.197	1.00	64.49	H	C
ATOM	9870	O	LYS	H	222	46.949	-0.256	-14.444	1.00	66.76	H	O
ATOM	9872	N	ILE	B	16	37.740	-46.441	-92.900	1.00	25.44	B	N
ATOM	9873	CA	ILE	B	16	39.099	-45.944	-92.536	1.00	27.26	B	C
ATOM	9875	CB	ILE	B	16	40.140	-46.281	-93.651	1.00	22.90	B	C
ATOM	9877	CG1	ILE	B	16	40.364	-47.802	-93.774	1.00	21.87	B	C
ATOM	9880	CD1	ILE	B	16	40.973	-48.473	-92.567	1.00	20.02	B	C
ATOM	9884	CG2	ILE	B	16	41.485	-45.579	-93.430	1.00	17.84	B	C
ATOM	9888	C	ILE	B	16	39.048	-44.424	-92.294	1.00	31.54	B	C
ATOM	9889	O	ILE	B	16	38.798	-43.663	-93.228	1.00	29.23	B	O
ATOM	9893	N	LEU	B	17	39.281	-44.003	-91.039	1.00	31.68	B	N
ATOM	9894	CA	LEU	B	17	39.487	-42.589	-90.691	1.00	29.30	B	C
ATOM	9896	CB	LEU	B	17	39.167	-42.308	-89.217	1.00	28.35	B	C
ATOM	9899	CG	LEU	B	17	39.747	-40.994	-88.653	1.00	31.53	B	C
ATOM	9901	CD1	LEU	B	17	39.782	-40.958	-87.112	1.00	26.18	B	C
ATOM	9905	CD2	LEU	B	17	39.010	-39.774	-89.199	1.00	30.41	B	C
ATOM	9909	C	LEU	B	17	40.931	-42.182	-90.950	1.00	31.79	B	C
ATOM	9910	O	LEU	B	17	41.848	-42.898	-90.565	1.00	31.22	B	O
ATOM	9912	N	GLY	B	18	41.123	-41.027	-91.591	1.00	33.28	B	N
ATOM	9913	CA	GLY	B	18	42.432	-40.383	-91.663	1.00	30.51	B	C
ATOM	9916	C	GLY	B	18	43.394	-40.929	-92.692	1.00	33.23	B	C
ATOM	9917	O	GLY	B	18	44.611	-40.714	-92.589	1.00	31.68	B	O
ATOM	9919	N	GLY	B	19	42.864	-41.623	-93.694	1.00	35.58	B	N
ATOM	9920	CA	GLY	B	19	43.698	-42.179	-94.750	1.00	36.21	B	C
ATOM	9923	C	GLY	B	19	43.545	-41.485	-96.086	1.00	37.50	B	C
ATOM	9924	O	GLY	B	19	43.090	-40.345	-96.167	1.00	36.36	B	O
ATOM	9926	N	ARG	B	20	43.961	-42.192	-97.130	1.00	39.95	B	N
ATOM	9927	CA	ARG	B	20	43.799	-41.764	-98.520	1.00	43.76	B	C
ATOM	9929	CB	ARG	B	20	45.145	-41.318	-99.100	1.00	47.17	B	C
ATOM	9932	CG	ARG	B	20	45.663	-39.976	-98.589	1.00	52.03	B	C
ATOM	9935	CD	ARG	B	20	47.189	-39.873	-98.754	1.00	53.23	B	C
ATOM	9938	NE	ARG	B	20	47.655	-40.208	-100.107	1.00	57.29	B	N
ATOM	9940	CZ	ARG	B	20	48.939	-40.305	-100.466	1.00	57.53	B	C
ATOM	9941	NH1	ARG	B	20	49.914	-40.092	-99.583	1.00	60.12	B	N
ATOM	9944	NH2	ARG	B	20	49.258	-40.613	-101.719	1.00	57.77	B	N
ATOM	9947	C	ARG	B	20	43.276	-42.949	-99.339	1.00	42.11	B	C
ATOM	9948	O	ARG	B	20	43.316	-44.100	-98.884	1.00	35.76	B	O
ATOM	9950	N	GLU	B	21	42.799	-42.667	-100.546	1.00	44.21	B	N
ATOM	9951	CA	GLU	B	21	42.431	-43.725	-101.483	1.00	43.86	B	C
ATOM	9953	CB	GLU	B	21	41.935	-43.136	-102.804	1.00	43.96	B	C
ATOM	9956	CG	GLU	B	21	41.593	-44.182	-103.871	1.00	44.58	B	C
ATOM	9959	CD	GLU	B	21	40.995	-43.578	-105.132	1.00	44.42	B	C
ATOM	9960	OE1	GLU	B	21	40.356	-42.506	-105.046	1.00	48.25	B	O
ATOM	9961	OE2	GLU	B	21	41.161	-44.183	-106.208	1.00	44.53	B	O
ATOM	9962	C	GLU	B	21	43.624	-44.638	-101.730	1.00	42.83	B	C
ATOM	9963	O	GLU	B	21	44.755	-44.170	-101.883	1.00	42.95	B	O
ATOM	9965	N	ALA	B	22	43.361	-45.942	-101.763	1.00	44.73	B	N
ATOM	9966	CA	ALA	B	22	44.398	-46.933	-102.006	1.00	44.29	B	C
ATOM	9968	CB	ALA	B	22	43.941	-48.314	-101.532	1.00	43.86	B	C
ATOM	9972	C	ALA	B	22	44.761	-46.977	-103.486	1.00	47.13	B	C
ATOM	9973	O	ALA	B	22	43.900	-46.863	-104.356	1.00	49.13	B	O
ATOM	9975	N	GLU	B	23	46.055	-47.106	-103.755	1.00	45.62	B	N
ATOM	9976	CA	GLU	B	23	46.556	-47.438	-105.082	1.00	45.94	B	C
ATOM	9978	CB	GLU	B	23	48.086	-47.632	-105.037	1.00	48.26	B	C
ATOM	9981	CG	GLU	B	23	48.633	-48.541	-103.884	1.00	51.48	B	C
ATOM	9984	CD	GLU	B	23	48.945	-47.813	-102.554	1.00	51.54	B	C
ATOM	9985	OE1	GLU	B	23	48.041	-47.168	-101.974	1.00	51.14	B	O
ATOM	9986	OE2	GLU	B	23	50.094	-47.924	-102.073	1.00	53.70	B	O
ATOM	9987	C	GLU	B	23	45.825	-48.699	-105.597	1.00	45.66	B	C
ATOM	9988	O	GLU	B	23	45.889	-49.756	-104.968	1.00	43.12	B	O
ATOM	9990	N	ALA	B	24	45.124	-48.573	-106.726	1.00	43.66	B	N
ATOM	9991	CA	ALA	B	24	44.090	-49.550	-107.123	1.00	43.72	B	C
ATOM	9993	CB	ALA	B	24	43.303	-49.032	-108.321	1.00	46.29	B	C
ATOM	9997	C	ALA	B	24	44.638	-50.943	-107.421	1.00	42.34	B	C
ATOM	9998	O	ALA	B	24	45.588	-51.087	-108.192	1.00	44.36	B	O
ATOM	10000	N	HIS	B	25	44.024	-51.955	-106.799	1.00	41.10	B	N
ATOM	10001	CA	HIS	B	25	44.450	-53.370	-106.893	1.00	41.44	B	C
ATOM	10003	CB	HIS	B	25	44.211	-53.916	-108.313	1.00	42.00	B	C

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ATOM	10006	CG	HIS	B	25	42.789	-53.804	-108.776	1.00	42.94	B C
ATOM	10007	ND1	HIS	B	25	42.404	-52.984	-109.815	1.00	42.34	B N
ATOM	10009	CE1	HIS	B	25	41.100	-53.091	-109.997	1.00	42.23	B C
ATOM	10011	NE2	HIS	B	25	40.623	-53.944	-109.111	1.00	43.22	B N
ATOM	10013	CD2	HIS	B	25	41.659	-54.408	-108.337	1.00	43.34	B C
ATOM	10015	C	HIS	B	25	45.905	-53.655	-106.444	1.00	41.05	B C
ATOM	10016	O	HIS	B	25	46.492	-54.669	-106.837	1.00	39.79	B O
ATOM	10018	N	ALA	B	26	46.467	-52.777	-105.606	1.00	40.97	B N
ATOM	10019	CA	ALA	B	26	47.825	-52.955	-105.063	1.00	38.44	B C
ATOM	10021	CB	ALA	B	26	48.497	-51.618	-104.851	1.00	37.53	B C
ATOM	10025	C	ALA	B	26	47.815	-53.755	-103.757	1.00	37.97	B C
ATOM	10026	O	ALA	B	26	48.880	-54.163	-103.276	1.00	35.67	B O
ATOM	10028	N	ARG	B	27	46.614	-53.961	-103.198	1.00	37.39	B N
ATOM	10029	CA	ARG	B	27	46.367	-54.917	-102.114	1.00	33.76	B C
ATOM	10031	CB	ARG	B	27	45.733	-54.211	-100.916	1.00	35.17	B C
ATOM	10034	CG	ARG	B	27	46.688	-53.261	-100.242	1.00	35.76	B C
ATOM	10037	CD	ARG	B	27	46.012	-52.290	-99.315	1.00	36.72	B C
ATOM	10040	NE	ARG	B	27	46.961	-51.252	-98.911	1.00	40.13	B N
ATOM	10042	CZ	ARG	B	27	47.322	-50.208	-99.662	1.00	42.42	B C
ATOM	10043	NH1	ARG	B	27	46.821	-50.035	-100.882	1.00	44.67	B N
ATOM	10046	NH2	ARG	B	27	48.196	-49.327	-99.185	1.00	42.63	B N
ATOM	10049	C	ARG	B	27	45.446	-56.035	-102.623	1.00	29.29	B C
ATOM	10050	O	ARG	B	27	44.267	-56.100	-102.258	1.00	28.48	B O
ATOM	10052	N	PRO	B	28	45.990	-56.937	-103.453	1.00	24.06	B N
ATOM	10053	CA	PRO	B	28	45.188	-57.936	-104.184	1.00	27.75	B C
ATOM	10055	CB	PRO	B	28	46.191	-58.540	-105.175	1.00	23.04	B C
ATOM	10058	CG	PRO	B	28	47.517	-58.313	-104.590	1.00	20.43	B C
ATOM	10061	CD	PRO	B	28	47.433	-57.082	-103.728	1.00	25.44	B C
ATOM	10064	C	PRO	B	28	44.594	-59.035	-103.309	1.00	30.78	B C
ATOM	10065	O	PRO	B	28	43.809	-59.845	-103.793	1.00	33.44	B O
ATOM	10066	N	TYR	B	29	44.974	-59.054	-102.034	1.00	30.08	B N
ATOM	10067	CA	TYR	B	29	44.411	-59.975	-101.050	1.00	27.56	B C
ATOM	10069	CB	TYR	B	29	45.421	-60.210	-99.916	1.00	27.47	B C
ATOM	10072	CG	TYR	B	29	46.026	-58.939	-99.364	1.00	27.98	B C
ATOM	10073	CD1	TYR	B	29	45.369	-58.204	-98.389	1.00	22.35	B C
ATOM	10075	CE1	TYR	B	29	45.903	-57.033	-97.898	1.00	26.78	B C
ATOM	10077	CZ	TYR	B	29	47.124	-56.583	-98.359	1.00	26.15	B C
ATOM	10078	OH	TYR	B	29	47.643	-55.414	-97.852	1.00	28.87	B O
ATOM	10080	CE2	TYR	B	29	47.807	-57.285	-99.333	1.00	26.84	B C
ATOM	10082	CD2	TYR	B	29	47.257	-58.466	-99.829	1.00	27.81	B C
ATOM	10084	C	TYR	B	29	43.089	-59.463	-100.482	1.00	25.94	B C
ATOM	10085	O	TYR	B	29	42.353	-60.209	-99.846	1.00	27.05	B O
ATOM	10087	N	MET	B	30	42.782	-58.195	-100.742	1.00	28.87	B N
ATOM	10088	CA	MET	B	30	41.681	-57.496	-100.084	1.00	26.23	B C
ATOM	10090	CB	MET	B	30	41.847	-55.983	-100.298	1.00	24.84	B C
ATOM	10093	CG	MET	B	30	40.893	-55.121	-99.475	1.00	26.92	B C
ATOM	10096	SD	MET	B	30	41.238	-55.209	-97.719	1.00	28.47	B S
ATOM	10097	CE	MET	B	30	39.598	-55.021	-97.022	1.00	16.99	B C
ATOM	10101	C	MET	B	30	40.300	-57.948	-100.573	1.00	29.35	B C
ATOM	10102	O	MET	B	30	40.048	-58.006	-101.783	1.00	31.19	B O
ATOM	10104	N	ALA	B	31	39.404	-58.221	-99.619	1.00	29.61	B N
ATOM	10105	CA	ALA	B	31	38.071	-58.752	-99.903	1.00	29.14	B C
ATOM	10107	CB	ALA	B	31	37.978	-60.197	-99.454	1.00	26.12	B C
ATOM	10111	C	ALA	B	31	36.989	-57.946	-99.208	1.00	32.79	B C
ATOM	10112	O	ALA	B	31	37.211	-57.381	-98.126	1.00	38.34	B O
ATOM	10114	N	SER	B	32	35.810	-57.920	-99.828	1.00	33.73	B N
ATOM	10115	CA	SER	B	32	34.633	-57.255	-99.271	1.00	34.44	B C
ATOM	10117	CB	SER	B	32	34.071	-56.241	-100.280	1.00	33.21	B C
ATOM	10120	OG	SER	B	32	32.768	-55.805	-99.935	1.00	34.27	B O
ATOM	10122	C	SER	B	32	33.581	-58.298	-98.917	1.00	35.41	B C
ATOM	10123	O	SER	B	32	33.181	-59.088	-99.767	1.00	38.54	B O
ATOM	10125	N	VAL	B	33	33.134	-58.293	-97.668	1.00	36.32	B N
ATOM	10126	CA	VAL	B	33	32.161	-59.270	-97.192	1.00	37.62	B C
ATOM	10128	CB	VAL	B	33	32.592	-59.855	-95.828	1.00	35.15	B C
ATOM	10130	CG1	VAL	B	33	31.480	-60.686	-95.184	1.00	32.81	B C
ATOM	10134	CG2	VAL	B	33	33.851	-60.694	-96.022	1.00	31.95	B C
ATOM	10138	C	VAL	B	33	30.768	-58.624	-97.178	1.00	40.86	B C
ATOM	10139	O	VAL	B	33	30.497	-57.690	-96.414	1.00	39.96	B O

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ATOM	10141	N	GLN	B	34	29.903	-59.132	-98.058	1.00	44.03	B N
ATOM	10142	CA	GLN	B	34	28.619	-58.510	-98.377	1.00	44.84	B C
ATOM	10144	CB	GLN	B	34	28.548	-58.195	-99.876	1.00	45.16	B C
ATOM	10147	CG	GLN	B	34	29.813	-57.603	-100.457	1.00	45.06	B C
ATOM	10150	CD	GLN	B	34	29.623	-57.108	-101.869	1.00	47.25	B C
ATOM	10151	OE1	GLN	B	34	28.623	-57.427	-102.520	1.00	50.56	B O
ATOM	10152	NE2	GLN	B	34	30.589	-56.328	-102.362	1.00	46.11	B N
ATOM	10155	C	GLN	B	34	27.444	-59.414	-98.032	1.00	45.84	B C
ATOM	10156	O	GLN	B	34	27.442	-60.599	-98.372	1.00	44.34	B O
ATOM	10158	N	VAL	B	35	26.456	-58.846	-97.351	1.00	47.01	B N
ATOM	10159	CA	VAL	B	35	25.135	-59.448	-97.251	1.00	50.74	B C
ATOM	10161	CB	VAL	B	35	24.570	-59.411	-95.797	1.00	50.19	B C
ATOM	10163	CG1	VAL	B	35	24.611	-58.001	-95.215	1.00	49.71	B C
ATOM	10167	CG2	VAL	B	35	23.154	-59.972	-95.754	1.00	48.79	B C
ATOM	10171	C	VAL	B	35	24.233	-58.695	-98.244	1.00	54.44	B C
ATOM	10172	O	VAL	B	35	24.034	-57.479	-98.118	1.00	55.41	B O
ATOM	10174	N	ASN	B	36	23.736	-59.416	-99.254	1.00	55.06	B N
ATOM	10175	CA	ASN	B	36	22.794	-58.875	-100.247	1.00	55.30	B C
ATOM	10177	CB	ASN	B	36	21.499	-58.375	-99.569	1.00	54.25	B C
ATOM	10180	CG	ASN	B	36	20.713	-59.493	-98.900	1.00	52.40	B C
ATOM	10181	OD1	ASN	B	36	20.768	-60.657	-99.318	1.00	50.89	B O
ATOM	10182	ND2	ASN	B	36	19.957	-59.138	-97.868	1.00	46.40	B N
ATOM	10185	C	ASN	B	36	23.393	-57.764	-101.118	1.00	58.49	B C
ATOM	10186	O	ASN	B	36	22.795	-56.687	-101.273	1.00	60.12	B O
ATOM	10188	N	GLY	B	37	24.578	-58.022	-101.673	1.00	57.49	B N
ATOM	10189	CA	GLY	B	37	25.234	-57.072	-102.578	1.00	55.35	B C
ATOM	10192	C	GLY	B	37	25.725	-55.766	-101.960	1.00	54.30	B C
ATOM	10193	O	GLY	B	37	26.347	-54.962	-102.651	1.00	53.82	B O
ATOM	10195	N	GLU	B	38	25.445	-55.552	-100.671	1.00	54.27	B N
ATOM	10196	CA	GLU	B	38	25.910	-54.365	-99.932	1.00	54.49	B C
ATOM	10198	CB	GLU	B	38	24.753	-53.720	-99.156	1.00	57.56	B C
ATOM	10201	CG	GLU	B	38	23.798	-52.911	-100.031	1.00	61.34	B C
ATOM	10204	CD	GLU	B	38	22.734	-52.162	-99.236	1.00	63.69	B C
ATOM	10205	OE1	GLU	B	38	22.447	-52.548	-98.079	1.00	66.52	B O
ATOM	10206	OE2	GLU	B	38	22.177	-51.184	-99.784	1.00	67.77	B O
ATOM	10207	C	GLU	B	38	27.027	-54.743	-98.954	1.00	51.59	B C
ATOM	10208	O	GLU	B	38	26.809	-55.545	-98.043	1.00	53.44	B O
ATOM	10210	N	HIS	B	39	28.215	-54.164	-99.153	1.00	45.66	B N
ATOM	10211	CA	HIS	B	39	29.347	-54.315	-98.229	1.00	42.86	B C
ATOM	10213	CB	HIS	B	39	30.449	-53.302	-98.584	1.00	39.93	B C
ATOM	10216	CG	HIS	B	39	31.598	-53.278	-97.620	1.00	38.99	B C
ATOM	10217	ND1	HIS	B	39	31.508	-52.700	-96.370	1.00	36.86	B N
ATOM	10219	CE1	HIS	B	39	32.666	-52.823	-95.747	1.00	34.48	B C
ATOM	10221	NE2	HIS	B	39	33.510	-53.448	-96.551	1.00	32.04	B N
ATOM	10223	CD2	HIS	B	39	32.869	-53.738	-97.730	1.00	34.29	B C
ATOM	10225	C	HIS	B	39	28.929	-54.167	-96.748	1.00	40.49	B C
ATOM	10226	O	HIS	B	39	28.206	-53.238	-96.375	1.00	39.27	B O
ATOM	10228	N	LEU	B	40	29.378	-55.116	-95.929	1.00	38.74	B N
ATOM	10229	CA	LEU	B	40	29.152	-55.110	-94.480	1.00	38.17	B C
ATOM	10231	CB	LEU	B	40	28.334	-56.340	-94.074	1.00	36.78	B C
ATOM	10234	CG	LEU	B	40	28.118	-56.623	-92.588	1.00	37.93	B C
ATOM	10236	CD1	LEU	B	40	27.140	-55.623	-91.933	1.00	41.67	B C
ATOM	10240	CD2	LEU	B	40	27.651	-58.054	-92.391	1.00	40.25	B C
ATOM	10244	C	LEU	B	40	30.484	-55.104	-93.716	1.00	39.13	B C
ATOM	10245	O	LEU	B	40	30.627	-54.381	-92.713	1.00	37.41	B O
ATOM	10247	N	CYS	B	41	31.432	-55.920	-94.190	1.00	35.09	B N
ATOM	10248	CA	CYS	B	41	32.718	-56.143	-93.529	1.00	35.01	B C
ATOM	10250	CB	CYS	B	41	32.672	-57.450	-92.735	1.00	39.73	B C
ATOM	10253	SG	CYS	B	41	31.959	-57.264	-91.099	1.00	44.11	B S
ATOM	10255	C	CYS	B	41	33.846	-56.245	-94.536	1.00	30.78	B C
ATOM	10256	O	CYS	B	41	33.612	-56.546	-95.697	1.00	33.34	B O
ATOM	10258	N	GLY	B	42	35.070	-56.001	-94.077	1.00	29.05	B N
ATOM	10259	CA	GLY	B	42	36.264	-56.362	-94.829	1.00	27.22	B C
ATOM	10262	C	GLY	B	42	36.564	-57.843	-94.619	1.00	25.68	B C
ATOM	10263	O	GLY	B	42	35.987	-58.507	-93.744	1.00	27.95	B O
ATOM	10265	N	GLY	B	43	37.458	-58.362	-95.441	1.00	21.25	B N
ATOM	10266	CA	GLY	B	43	38.007	-59.693	-95.258	1.00	25.48	B C
ATOM	10269	C	GLY	B	43	39.326	-59.717	-96.001	1.00	26.84	B C

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ATOM	10270	O	GLY	B	43	39.730	-58.702	-96.582	1.00	22.17	B	O
ATOM	10272	N	VAL	B	44	39.974	-60.876	-96.001	1.00	28.47	B	N
ATOM	10273	CA	VAL	B	44	41.301	-61.033	-96.588	1.00	30.81	B	C
ATOM	10275	CB	VAL	B	44	42.411	-60.688	-95.554	1.00	34.36	B	C
ATOM	10277	CG1	VAL	B	44	42.115	-61.332	-94.198	1.00	36.04	B	C
ATOM	10281	CG2	VAL	B	44	43.778	-61.091	-96.079	1.00	28.87	B	C
ATOM	10285	C	VAL	B	44	41.499	-62.458	-97.100	1.00	31.86	B	C
ATOM	10286	O	VAL	B	44	41.210	-63.418	-96.391	1.00	35.40	B	O
ATOM	10288	N	LEU	B	45	41.998	-62.574	-98.331	1.00	28.42	B	N
ATOM	10289	CA	LEU	B	45	42.223	-63.858	-98.970	1.00	29.75	B	C
ATOM	10291	CB	LEU	B	45	42.390	-63.662	-100.495	1.00	26.37	B	C
ATOM	10294	CG	LEU	B	45	42.378	-64.822	-101.510	1.00	26.08	B	C
ATOM	10296	CD1	LEU	B	45	41.005	-65.479	-101.649	1.00	21.26	B	C
ATOM	10300	CD2	LEU	B	45	42.861	-64.339	-102.881	1.00	24.35	B	C
ATOM	10304	C	LEU	B	45	43.466	-64.473	-98.330	1.00	33.62	B	C
ATOM	10305	O	LEU	B	45	44.574	-63.945	-98.472	1.00	34.99	B	O
ATOM	10307	N	VAL	B	46	43.273	-65.576	-97.604	1.00	35.94	B	N
ATOM	10308	CA	VAL	B	46	44.387	-66.307	-96.972	1.00	32.69	B	C
ATOM	10310	CB	VAL	B	46	44.124	-66.576	-95.452	1.00	31.73	B	C
ATOM	10312	CG1	VAL	B	46	44.368	-65.307	-94.651	1.00	27.65	B	C
ATOM	10316	CG2	VAL	B	46	42.708	-67.123	-95.186	1.00	27.32	B	C
ATOM	10320	C	VAL	B	46	44.786	-67.608	-97.703	1.00	36.51	B	C
ATOM	10321	O	VAL	B	46	45.856	-68.156	-97.438	1.00	35.05	B	O
ATOM	10323	N	ALA	B	47	43.947	-68.084	-98.627	1.00	36.31	B	N
ATOM	10324	CA	ALA	B	47	44.247	-69.280	-99.429	1.00	37.71	B	C
ATOM	10326	CB	ALA	B	47	43.607	-70.515	-98.804	1.00	33.79	B	C
ATOM	10330	C	ALA	B	47	43.746	-69.088	-100.862	1.00	40.80	B	C
ATOM	10331	O	ALA	B	47	43.374	-67.980	-101.251	1.00	43.21	B	O
ATOM	10333	N	GLU	B	48	43.731	-70.162	-101.645	1.00	44.49	B	N
ATOM	10334	CA	GLU	B	48	43.173	-70.106	-102.999	1.00	44.53	B	C
ATOM	10336	CB	GLU	B	48	43.706	-71.270	-103.849	1.00	46.73	B	C
ATOM	10339	CG	GLU	B	48	43.980	-70.917	-105.322	1.00	48.61	B	C
ATOM	10342	CD	GLU	B	48	45.100	-71.752	-105.957	1.00	50.86	B	C
ATOM	10343	OE1	GLU	B	48	45.445	-72.836	-105.426	1.00	54.50	B	O
ATOM	10344	OE2	GLU	B	48	45.640	-71.317	-107.002	1.00	52.98	B	O
ATOM	10345	C	GLU	B	48	41.629	-70.085	-102.944	1.00	45.72	B	C
ATOM	10346	O	GLU	B	48	40.987	-69.596	-103.876	1.00	49.32	B	O
ATOM	10348	N	GLN	B	49	41.051	-70.566	-101.836	1.00	42.23	B	N
ATOM	10349	CA	GLN	B	49	39.596	-70.722	-101.684	1.00	40.07	B	C
ATOM	10351	CB	GLN	B	49	39.249	-72.213	-101.799	1.00	42.74	B	C
ATOM	10354	CG	GLN	B	49	37.753	-72.541	-101.957	1.00	42.70	B	C
ATOM	10357	CD	GLN	B	49	37.501	-73.778	-102.822	1.00	42.73	B	C
ATOM	10358	OE1	GLN	B	49	38.373	-74.639	-102.976	1.00	41.86	B	O
ATOM	10359	NE2	GLN	B	49	36.304	-73.862	-103.393	1.00	43.64	B	N
ATOM	10362	C	GLN	B	49	39.049	-70.197	-100.355	1.00	38.48	B	C
ATOM	10363	O	GLN	B	49	37.893	-70.465	-100.013	1.00	36.98	B	O
ATOM	10365	N	TRP	B	50	39.859	-69.439	-99.614	1.00	39.16	B	N
ATOM	10366	CA	TRP	B	50	39.511	-69.054	-98.240	1.00	37.11	B	C
ATOM	10368	CB	TRP	B	50	40.310	-69.904	-97.255	1.00	37.00	B	C
ATOM	10371	CG	TRP	B	50	39.878	-71.330	-97.249	1.00	35.91	B	C
ATOM	10372	CD1	TRP	B	50	40.410	-72.359	-97.978	1.00	36.02	B	C
ATOM	10374	NE1	TRP	B	50	39.733	-73.525	-97.709	1.00	35.72	B	N
ATOM	10376	CE2	TRP	B	50	38.737	-73.260	-96.803	1.00	35.45	B	C
ATOM	10377	CD2	TRP	B	50	38.802	-71.886	-96.490	1.00	33.75	B	C
ATOM	10378	CE3	TRP	B	50	37.881	-71.353	-95.581	1.00	34.88	B	C
ATOM	10380	CZ3	TRP	B	50	36.944	-72.195	-95.011	1.00	36.28	B	C
ATOM	10382	CH2	TRP	B	50	36.909	-73.563	-95.334	1.00	35.59	B	C
ATOM	10384	CZ2	TRP	B	50	37.792	-74.111	-96.228	1.00	35.62	B	C
ATOM	10386	C	TRP	B	50	39.739	-67.576	-97.948	1.00	35.98	B	C
ATOM	10387	O	TRP	B	50	40.752	-67.002	-98.351	1.00	39.42	B	O
ATOM	10389	N	VAL	B	51	38.780	-66.983	-97.239	1.00	32.08	B	N
ATOM	10390	CA	VAL	B	51	38.814	-65.575	-96.860	1.00	31.41	B	C
ATOM	10392	CB	VAL	B	51	37.803	-64.752	-97.697	1.00	30.05	B	C
ATOM	10394	CG1	VAL	B	51	37.700	-63.318	-97.170	1.00	31.04	B	C
ATOM	10398	CG2	VAL	B	51	38.206	-64.771	-99.168	1.00	29.64	B	C
ATOM	10402	C	VAL	B	51	38.510	-65.401	-95.360	1.00	30.22	B	C
ATOM	10403	O	VAL	B	51	37.450	-65.819	-94.878	1.00	27.25	B	O
ATOM	10405	N	LEU	B	52	39.444	-64.760	-94.648	1.00	28.01	B	N

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ATOM	10406	CA	LEU	B	52	39.348	-64.536	-93.202	1.00	25.12	B	C
ATOM	10408	CB	LEU	B	52	40.755	-64.612	-92.572	1.00	26.22	B	C
ATOM	10411	CG	LEU	B	52	41.004	-64.452	-91.057	1.00	26.17	B	C
ATOM	10413	CD1	LEU	B	52	40.288	-65.496	-90.213	1.00	22.03	B	C
ATOM	10417	CD2	LEU	B	52	42.514	-64.511	-90.808	1.00	22.32	B	C
ATOM	10421	C	LEU	B	52	38.711	-63.176	-92.946	1.00	25.46	B	C
ATOM	10422	O	LEU	B	52	39.041	-62.190	-93.608	1.00	23.81	B	O
ATOM	10424	N	SER	B	53	37.795	-63.141	-91.983	1.00	23.96	B	N
ATOM	10425	CA	SER	B	53	37.074	-61.948	-91.630	1.00	26.54	B	C
ATOM	10427	CB	SER	B	53	35.765	-61.884	-92.406	1.00	29.00	B	C
ATOM	10430	OG	SER	B	53	35.073	-60.676	-92.156	1.00	30.28	B	O
ATOM	10432	C	SER	B	53	36.808	-61.990	-90.128	1.00	28.54	B	C
ATOM	10433	O	SER	B	53	37.444	-62.756	-89.409	1.00	33.43	B	O
ATOM	10435	N	ALA	B	54	35.878	-61.174	-89.659	1.00	30.74	B	N
ATOM	10436	CA	ALA	B	54	35.540	-61.128	-88.237	1.00	35.56	B	C
ATOM	10438	CB	ALA	B	54	35.390	-59.697	-87.783	1.00	30.25	B	C
ATOM	10442	C	ALA	B	54	34.264	-61.928	-87.971	1.00	40.11	B	C
ATOM	10443	O	ALA	B	54	33.421	-62.083	-88.855	1.00	41.26	B	O
ATOM	10445	N	ALA	B	55	34.136	-62.438	-86.750	1.00	43.29	B	N
ATOM	10446	CA	ALA	B	55	33.062	-63.363	-86.395	1.00	44.50	B	C
ATOM	10448	CB	ALA	B	55	33.397	-64.090	-85.103	1.00	43.96	B	C
ATOM	10452	C	ALA	B	55	31.712	-62.678	-86.272	1.00	47.71	B	C
ATOM	10453	O	ALA	B	55	30.699	-63.259	-86.642	1.00	50.05	B	O
ATOM	10455	N	HIS	B	56	31.697	-61.452	-85.760	1.00	52.45	B	N
ATOM	10456	CA	HIS	B	56	30.448	-60.717	-85.540	1.00	54.47	B	C
ATOM	10458	CB	HIS	B	56	30.665	-59.580	-84.525	1.00	60.79	B	C
ATOM	10461	CG	HIS	B	56	29.429	-59.172	-83.773	1.00	63.96	B	C
ATOM	10462	ND1	HIS	B	56	28.947	-59.875	-82.687	1.00	68.14	B	N
ATOM	10464	CE1	HIS	B	56	27.864	-59.277	-82.220	1.00	68.81	B	C
ATOM	10466	NE2	HIS	B	56	27.633	-58.203	-82.954	1.00	70.12	B	N
ATOM	10468	CD2	HIS	B	56	28.600	-58.111	-83.928	1.00	68.83	B	C
ATOM	10470	C	HIS	B	56	29.840	-60.167	-86.841	1.00	55.04	B	C
ATOM	10471	O	HIS	B	56	28.730	-59.648	-86.816	1.00	59.17	B	O
ATOM	10473	N	CYS	B	57	30.554	-60.268	-87.963	1.00	54.05	B	N
ATOM	10474	CA	CYS	B	57	29.960	-59.997	-89.280	1.00	58.67	B	C
ATOM	10476	CB	CYS	B	57	31.013	-60.072	-90.395	1.00	55.09	B	C
ATOM	10479	SG	CYS	B	57	32.453	-59.001	-90.167	1.00	53.83	B	S
ATOM	10481	C	CYS	B	57	28.835	-60.995	-89.588	1.00	63.07	B	C
ATOM	10482	O	CYS	B	57	27.773	-60.615	-90.084	1.00	63.91	B	O
ATOM	10484	N	LEU	B	58	29.098	-62.271	-89.302	1.00	68.35	B	N
ATOM	10485	CA	LEU	B	58	28.111	-63.350	-89.411	1.00	69.66	B	C
ATOM	10487	CB	LEU	B	58	28.703	-64.650	-88.845	1.00	70.39	B	C
ATOM	10490	CG	LEU	B	58	27.943	-65.972	-89.012	1.00	69.34	B	C
ATOM	10492	CD1	LEU	B	58	28.465	-66.757	-90.211	1.00	67.83	B	C
ATOM	10496	CD2	LEU	B	58	28.063	-66.802	-87.738	1.00	69.82	B	C
ATOM	10500	C	LEU	B	58	26.821	-63.003	-88.662	1.00	73.25	B	C
ATOM	10501	O	LEU	B	58	25.732	-63.068	-89.234	1.00	74.73	B	O
ATOM	10503	N	GLU	B	59	26.955	-62.633	-87.388	1.00	76.02	B	N
ATOM	10504	CA	GLU	B	59	25.810	-62.239	-86.552	1.00	78.84	B	C
ATOM	10506	CB	GLU	B	59	26.269	-61.891	-85.126	1.00	81.51	B	C
ATOM	10509	CG	GLU	B	59	26.472	-63.104	-84.204	1.00	83.71	B	C
ATOM	10512	CD	GLU	B	59	25.318	-63.320	-83.226	1.00	84.97	B	C
ATOM	10513	OE1	GLU	B	59	24.787	-64.451	-83.162	1.00	86.12	B	O
ATOM	10514	OE2	GLU	B	59	24.948	-62.360	-82.518	1.00	85.36	B	O
ATOM	10515	C	GLU	B	59	25.034	-61.058	-87.141	1.00	81.28	B	C
ATOM	10516	O	GLU	B	59	23.806	-61.107	-87.243	1.00	82.12	B	O
ATOM	10518	N	ASP	B	60	25.755	-60.006	-87.525	1.00	82.96	B	N
ATOM	10519	CA	ASP	B	60	25.143	-58.795	-88.093	1.00	82.97	B	C
ATOM	10521	CB	ASP	B	60	26.168	-57.648	-88.155	1.00	83.36	B	C
ATOM	10524	CG	ASP	B	60	26.540	-57.106	-86.776	1.00	83.92	B	C
ATOM	10525	OD1	ASP	B	60	25.890	-57.480	-85.771	1.00	84.33	B	O
ATOM	10526	OD2	ASP	B	60	27.489	-56.294	-86.703	1.00	82.79	B	O
ATOM	10527	C	ASP	B	60	24.523	-59.014	-89.483	1.00	83.48	B	C
ATOM	10528	O	ASP	B	60	23.625	-58.268	-89.881	1.00	83.47	B	O
ATOM	10530	N	ALA	B	61	24.992	-60.031	-90.210	1.00	83.73	B	N
ATOM	10531	CA	ALA	B	61	24.459	-60.356	-91.546	1.00	84.10	B	C
ATOM	10533	CB	ALA	B	61	25.361	-61.371	-92.249	1.00	84.18	B	C
ATOM	10537	C	ALA	B	61	23.014	-60.875	-91.524	1.00	85.40	B	C

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ATOM	10538	O	ALA	B	61	22.353	-60.913	-92.568	1.00	86.87	B O
ATOM	10540	N	ALA	B	62	22.544	-61.287	-90.344	1.00	83.95	B N
ATOM	10541	CA	ALA	B	62	21.169	-61.756	-90.137	1.00	81.99	B C
ATOM	10543	CB	ALA	B	62	20.154	-60.643	-90.461	1.00	81.06	B C
ATOM	10547	C	ALA	B	62	20.864	-63.039	-90.923	1.00	80.25	B C
ATOM	10548	O	ALA	B	62	20.969	-64.137	-90.377	1.00	78.78	B O
ATOM	10550	N	ASP	B	63	20.501	-62.901	-92.196	1.00	79.84	B N
ATOM	10551	CA	ASP	B	63	20.071	-64.057	-93.002	1.00	78.87	B C
ATOM	10553	CB	ASP	B	63	18.614	-64.414	-92.645	1.00	80.66	B C
ATOM	10556	CG	ASP	B	63	17.714	-63.183	-92.539	1.00	82.27	B C
ATOM	10557	OD1	ASP	B	63	17.276	-62.856	-91.412	1.00	82.06	B O
ATOM	10558	OD2	ASP	B	63	17.459	-62.536	-93.579	1.00	82.85	B O
ATOM	10559	C	ASP	B	63	20.225	-63.917	-94.534	1.00	77.32	B C
ATOM	10560	O	ASP	B	63	19.946	-64.872	-95.265	1.00	77.78	B O
ATOM	10562	N	GLY	B	64	20.675	-62.757	-95.018	1.00	73.64	B N
ATOM	10563	CA	GLY	B	64	20.837	-62.530	-96.456	1.00	70.44	B C
ATOM	10566	C	GLY	B	64	21.958	-63.357	-97.059	1.00	66.74	B C
ATOM	10567	O	GLY	B	64	22.793	-63.909	-96.338	1.00	63.69	B O
ATOM	10569	N	LYS	B	65	21.976	-63.453	-98.386	1.00	64.90	B N
ATOM	10570	CA	LYS	B	65	23.012	-64.225	-99.069	1.00	63.63	B C
ATOM	10572	CB	LYS	B	65	22.731	-64.367	-100.577	1.00	63.74	B C
ATOM	10575	CG	LYS	B	65	23.587	-65.448	-101.251	1.00	64.33	B C
ATOM	10578	CD	LYS	B	65	23.229	-65.673	-102.721	1.00	64.55	B C
ATOM	10581	CE	LYS	B	65	23.361	-67.153	-103.101	1.00	64.73	B C
ATOM	10584	NZ	LYS	B	65	23.335	-67.416	-104.584	1.00	63.36	B N
ATOM	10588	C	LYS	B	65	24.366	-63.558	-98.830	1.00	61.58	B C
ATOM	10589	O	LYS	B	65	24.615	-62.441	-99.305	1.00	61.04	B O
ATOM	10591	N	VAL	B	66	25.220	-64.237	-98.064	1.00	57.01	B N
ATOM	10592	CA	VAL	B	66	26.576	-63.766	-97.829	1.00	53.61	B C
ATOM	10594	CB	VAL	B	66	27.210	-64.410	-96.582	1.00	52.73	B C
ATOM	10596	CG1	VAL	B	66	28.705	-64.126	-96.538	1.00	52.64	B C
ATOM	10600	CG2	VAL	B	66	26.527	-63.900	-95.317	1.00	51.29	B C
ATOM	10604	C	VAL	B	66	27.429	-64.068	-99.055	1.00	51.01	B C
ATOM	10605	O	VAL	B	66	27.424	-65.188	-99.573	1.00	51.68	B O
ATOM	10607	N	GLN	B	67	28.145	-63.051	-99.517	1.00	47.80	B N
ATOM	10608	CA	GLN	B	67	29.021	-63.166	-100.665	1.00	46.92	B C
ATOM	10610	CB	GLN	B	67	28.331	-62.566	-101.890	1.00	49.23	B C
ATOM	10613	CG	GLN	B	67	27.111	-63.356	-102.372	1.00	48.49	B C
ATOM	10616	CD	GLN	B	67	26.428	-62.719	-103.567	1.00	47.51	B C
ATOM	10617	OE1	GLN	B	67	26.217	-61.501	-103.607	1.00	45.66	B O
ATOM	10618	NE2	GLN	B	67	26.070	-63.545	-104.552	1.00	46.56	B N
ATOM	10621	C	GLN	B	67	30.329	-62.434	-100.383	1.00	43.71	B C
ATOM	10622	O	GLN	B	67	30.394	-61.591	-99.498	1.00	46.76	B O
ATOM	10624	N	VAL	B	68	31.358	-62.756	-101.152	1.00	41.06	B N
ATOM	10625	CA	VAL	B	68	32.683	-62.174	-100.988	1.00	40.46	B C
ATOM	10627	CB	VAL	B	68	33.684	-63.251	-100.507	1.00	39.79	B C
ATOM	10629	CG1	VAL	B	68	35.116	-62.729	-100.536	1.00	39.65	B C
ATOM	10633	CG2	VAL	B	68	33.298	-63.748	-99.113	1.00	35.87	B C
ATOM	10637	C	VAL	B	68	33.154	-61.581	-102.321	1.00	37.53	B C
ATOM	10638	O	VAL	B	68	33.271	-62.293	-103.314	1.00	32.48	B O
ATOM	10640	N	LEU	B	69	33.416	-60.277	-102.342	1.00	38.13	B N
ATOM	10641	CA	LEU	B	69	33.859	-59.594	-103.568	1.00	38.71	B C
ATOM	10643	CB	LEU	B	69	33.212	-58.198	-103.671	1.00	39.39	B C
ATOM	10646	CG	LEU	B	69	33.567	-57.339	-104.891	1.00	38.23	B C
ATOM	10648	CD1	LEU	B	69	33.055	-58.009	-106.151	1.00	39.44	B C
ATOM	10652	CD2	LEU	B	69	33.001	-55.915	-104.742	1.00	40.33	B C
ATOM	10656	C	LEU	B	69	35.384	-59.472	-103.621	1.00	36.12	B C
ATOM	10657	O	LEU	B	69	35.982	-58.654	-102.912	1.00	38.17	B O
ATOM	10659	N	LEU	B	70	36.011	-60.292	-104.452	1.00	32.95	B N
ATOM	10660	CA	LEU	B	70	37.452	-60.198	-104.648	1.00	33.88	B C
ATOM	10662	CB	LEU	B	70	38.074	-61.584	-104.831	1.00	32.44	B C
ATOM	10665	CG	LEU	B	70	37.897	-62.601	-103.697	1.00	30.43	B C
ATOM	10667	CD1	LEU	B	70	38.680	-63.864	-104.050	1.00	31.19	B C
ATOM	10671	CD2	LEU	B	70	38.339	-62.040	-102.347	1.00	29.11	B C
ATOM	10675	C	LEU	B	70	37.745	-59.315	-105.856	1.00	35.58	B C
ATOM	10676	O	LEU	B	70	36.823	-58.921	-106.581	1.00	35.91	B O
ATOM	10678	N	GLY	B	71	39.029	-58.999	-106.049	1.00	36.24	B N
ATOM	10679	CA	GLY	B	71	39.505	-58.156	-107.156	1.00	34.22	B C

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ATOM	10682	C	GLY	B	71	38.973	-56.726	-107.263	1.00	36.34	B C
ATOM	10683	O	GLY	B	71	39.074	-56.123	-108.334	1.00	43.02	B O
ATOM	10685	N	ALA	B	72	38.434	-56.161	-106.180	1.00	32.78	B N
ATOM	10686	CA	ALA	B	72	37.756	-54.857	-106.255	1.00	31.64	B C
ATOM	10688	CB	ALA	B	72	36.463	-54.871	-105.428	1.00	29.09	B C
ATOM	10692	C	ALA	B	72	38.621	-53.684	-105.821	1.00	35.79	B C
ATOM	10693	O	ALA	B	72	39.355	-53.758	-104.827	1.00	44.04	B O
ATOM	10695	N	HIS	B	73	38.528	-52.589	-106.566	1.00	35.36	B N
ATOM	10696	CA	HIS	B	73	38.888	-51.283	-106.027	1.00	34.64	B C
ATOM	10698	CB	HIS	B	73	39.859	-50.517	-106.920	1.00	33.76	B C
ATOM	10701	CG	HIS	B	73	40.312	-49.226	-106.314	1.00	34.97	B C
ATOM	10702	ND1	HIS	B	73	40.630	-49.110	-104.978	1.00	32.16	B N
ATOM	10704	CE1	HIS	B	73	40.975	-47.863	-104.718	1.00	34.95	B C
ATOM	10706	NE2	HIS	B	73	40.895	-47.165	-105.837	1.00	36.36	B N
ATOM	10708	CD2	HIS	B	73	40.487	-47.996	-106.852	1.00	34.88	B C
ATOM	10710	C	HIS	B	73	37.618	-50.474	-105.761	1.00	33.41	B C
ATOM	10711	O	HIS	B	73	37.455	-49.962	-104.668	1.00	29.64	B O
ATOM	10713	N	SER	B	74	36.727	-50.394	-106.753	1.00	34.60	B N
ATOM	10714	CA	SER	B	74	35.398	-49.784	-106.596	1.00	35.84	B C
ATOM	10716	CB	SER	B	74	34.988	-49.063	-107.893	1.00	38.62	B C
ATOM	10719	OG	SER	B	74	33.634	-48.618	-107.839	1.00	39.81	B O
ATOM	10721	C	SER	B	74	34.303	-50.803	-106.234	1.00	34.63	B C
ATOM	10722	O	SER	B	74	34.206	-51.867	-106.837	1.00	36.48	B O
ATOM	10724	N	LEU	B	75	33.470	-50.453	-105.257	1.00	37.65	B N
ATOM	10725	CA	LEU	B	75	32.287	-51.251	-104.909	1.00	39.72	B C
ATOM	10727	CB	LEU	B	75	31.670	-50.784	-103.571	1.00	36.30	B C
ATOM	10730	CG	LEU	B	75	31.871	-51.631	-102.298	1.00	37.89	B C
ATOM	10732	CD1	LEU	B	75	33.285	-52.172	-102.152	1.00	37.78	B C
ATOM	10736	CD2	LEU	B	75	31.484	-50.852	-101.039	1.00	37.56	B C
ATOM	10740	C	LEU	B	75	31.236	-51.205	-106.039	1.00	44.65	B C
ATOM	10741	O	LEU	B	75	30.641	-52.231	-106.366	1.00	47.52	B O
ATOM	10743	N	SER	B	76	31.033	-50.026	-106.637	1.00	45.22	B N
ATOM	10744	CA	SER	B	76	29.980	-49.816	-107.650	1.00	45.43	B C
ATOM	10746	CB	SER	B	76	29.489	-48.366	-107.622	1.00	42.98	B C
ATOM	10749	OG	SER	B	76	28.624	-48.140	-106.524	1.00	44.06	B O
ATOM	10751	C	SER	B	76	30.415	-50.140	-109.078	1.00	48.68	B C
ATOM	10752	O	SER	B	76	29.780	-50.931	-109.775	1.00	47.16	B O
ATOM	10754	N	GLN	B	77	31.496	-49.509	-109.511	1.00	51.43	B N
ATOM	10755	CA	GLN	B	77	31.885	-49.550	-110.911	1.00	52.24	B C
ATOM	10757	CB	GLN	B	77	32.910	-48.455	-111.203	1.00	54.35	B C
ATOM	10760	CG	GLN	B	77	32.380	-47.047	-110.949	1.00	56.59	B C
ATOM	10763	CD	GLN	B	77	33.034	-46.007	-111.839	1.00	59.71	B C
ATOM	10764	OE1	GLN	B	77	34.168	-46.179	-112.301	1.00	65.21	B O
ATOM	10765	NE2	GLN	B	77	32.316	-44.919	-112.092	1.00	62.48	B N
ATOM	10768	C	GLN	B	77	32.436	-50.916	-111.318	1.00	52.78	B C
ATOM	10769	O	GLN	B	77	33.045	-51.609	-110.498	1.00	50.73	B O
ATOM	10771	N	PRO	B	78	32.208	-51.314	-112.587	1.00	51.87	B N
ATOM	10772	CA	PRO	B	78	32.768	-52.561	-113.084	1.00	51.17	B C
ATOM	10774	CB	PRO	B	78	31.922	-52.850	-114.323	1.00	53.24	B C
ATOM	10777	CG	PRO	B	78	31.574	-51.498	-114.843	1.00	53.16	B C
ATOM	10780	CD	PRO	B	78	31.410	-50.625	-113.619	1.00	52.36	B C
ATOM	10783	C	PRO	B	78	34.237	-52.400	-113.469	1.00	51.68	B C
ATOM	10784	O	PRO	B	78	34.638	-51.339	-113.954	1.00	51.10	B O
ATOM	10785	N	GLU	B	79	35.022	-53.450	-113.230	1.00	51.32	B N
ATOM	10786	CA	GLU	B	79	36.442	-53.491	-113.587	1.00	50.10	B C
ATOM	10788	CB	GLU	B	79	37.343	-53.141	-112.393	1.00	50.71	B C
ATOM	10791	CG	GLU	B	79	36.867	-51.977	-111.522	1.00	51.07	B C
ATOM	10794	CD	GLU	B	79	37.676	-51.847	-110.246	1.00	50.71	B C
ATOM	10795	OE1	GLU	B	79	37.238	-52.404	-109.219	1.00	47.87	B O
ATOM	10796	OE2	GLU	B	79	38.749	-51.204	-110.277	1.00	52.10	B O
ATOM	10797	C	GLU	B	79	36.766	-54.908	-114.050	1.00	50.42	B C
ATOM	10798	O	GLU	B	79	36.056	-55.854	-113.686	1.00	49.26	B O
ATOM	10800	N	PRO	B	80	37.854	-55.071	-114.827	1.00	50.66	B N
ATOM	10801	CA	PRO	B	80	38.137	-56.411	-115.340	1.00	50.02	B C
ATOM	10803	CB	PRO	B	80	39.454	-56.235	-116.123	1.00	49.95	B C
ATOM	10806	CG	PRO	B	80	39.571	-54.771	-116.392	1.00	50.08	B C
ATOM	10809	CD	PRO	B	80	38.878	-54.091	-115.241	1.00	51.02	B C
ATOM	10812	C	PRO	B	80	38.312	-57.415	-114.203	1.00	50.32	B C

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ATOM	10813	O	PRO	B	80	37.763	-58.516	-114.264	1.00	51.01	B O
ATOM	10814	N	SER	B	81	39.036	-57.008	-113.159	1.00	49.68	B N
ATOM	10815	CA	SER	B	81	39.451	-57.918	-112.090	1.00	46.44	B C
ATOM	10817	CB	SER	B	81	40.692	-57.365	-111.388	1.00	47.39	B C
ATOM	10820	OG	SER	B	81	41.824	-57.496	-112.238	1.00	49.26	B O
ATOM	10822	C	SER	B	81	38.359	-58.244	-111.073	1.00	42.87	B C
ATOM	10823	O	SER	B	81	38.431	-59.271	-110.401	1.00	43.41	B O
ATOM	10825	N	LYS	B	82	37.348	-57.394	-110.963	1.00	41.44	B N
ATOM	10826	CA	LYS	B	82	36.255	-57.648	-110.023	1.00	43.60	B C
ATOM	10828	CB	LYS	B	82	35.181	-56.548	-110.102	1.00	44.07	B C
ATOM	10831	CG	LYS	B	82	35.574	-55.204	-109.497	1.00	43.51	B C
ATOM	10834	CD	LYS	B	82	34.430	-54.194	-109.573	1.00	43.53	B C
ATOM	10837	CE	LYS	B	82	33.345	-54.458	-108.535	1.00	43.93	B C
ATOM	10840	NZ	LYS	B	82	32.353	-53.333	-108.456	1.00	43.72	B N
ATOM	10844	C	LYS	B	82	35.600	-59.000	-110.295	1.00	43.44	B C
ATOM	10845	O	LYS	B	82	35.435	-59.392	-111.448	1.00	46.25	B O
ATOM	10847	N	ARG	B	83	35.254	-59.710	-109.225	1.00	43.81	B N
ATOM	10848	CA	ARG	B	83	34.359	-60.859	-109.308	1.00	44.23	B C
ATOM	10850	CB	ARG	B	83	35.082	-62.101	-109.814	1.00	46.54	B C
ATOM	10853	CG	ARG	B	83	34.240	-63.352	-109.627	1.00	47.37	B C
ATOM	10856	CD	ARG	B	83	34.614	-64.466	-110.564	1.00	49.39	B C
ATOM	10859	NE	ARG	B	83	33.843	-65.661	-110.233	1.00	50.24	B N
ATOM	10861	CZ	ARG	B	83	33.730	-66.730	-111.011	1.00	53.60	B C
ATOM	10862	NH1	ARG	B	83	34.336	-66.776	-112.196	1.00	53.54	B N
ATOM	10865	NH2	ARG	B	83	32.995	-67.761	-110.597	1.00	54.70	B N
ATOM	10868	C	ARG	B	83	33.718	-61.189	-107.964	1.00	44.24	B C
ATOM	10869	O	ARG	B	83	34.420	-61.415	-106.976	1.00	46.63	B O
ATOM	10871	N	LEU	B	84	32.387	-61.244	-107.951	1.00	42.37	B N
ATOM	10872	CA	LEU	B	84	31.615	-61.652	-106.782	1.00	40.91	B C
ATOM	10874	CB	LEU	B	84	30.180	-61.121	-106.913	1.00	41.66	B C
ATOM	10877	CG	LEU	B	84	29.233	-61.185	-105.708	1.00	42.19	B C
ATOM	10879	CD1	LEU	B	84	29.977	-60.904	-104.425	1.00	41.22	B C
ATOM	10883	CD2	LEU	B	84	28.075	-60.198	-105.877	1.00	41.26	B C
ATOM	10887	C	LEU	B	84	31.630	-63.185	-106.657	1.00	41.57	B C
ATOM	10888	O	LEU	B	84	31.649	-63.891	-107.675	1.00	39.59	B O
ATOM	10890	N	TYR	B	85	31.658	-63.684	-105.415	1.00	41.98	B N
ATOM	10891	CA	TYR	B	85	31.714	-65.130	-105.114	1.00	41.55	B C
ATOM	10893	CB	TYR	B	85	33.092	-65.521	-104.579	1.00	37.99	B C
ATOM	10896	CG	TYR	B	85	34.205	-65.556	-105.598	1.00	37.60	B C
ATOM	10897	CD1	TYR	B	85	34.540	-66.734	-106.257	1.00	36.48	B C
ATOM	10899	CE1	TYR	B	85	35.586	-66.768	-107.179	1.00	37.61	B C
ATOM	10901	CZ	TYR	B	85	36.311	-65.611	-107.437	1.00	37.65	B C
ATOM	10902	OH	TYR	B	85	37.349	-65.607	-108.345	1.00	38.79	B O
ATOM	10904	CE2	TYR	B	85	36.001	-64.444	-106.786	1.00	37.52	B C
ATOM	10906	CD2	TYR	B	85	34.957	-64.422	-105.868	1.00	38.01	B C
ATOM	10908	C	TYR	B	85	30.651	-65.506	-104.074	1.00	42.35	B C
ATOM	10909	O	TYR	B	85	29.925	-64.649	-103.589	1.00	40.36	B O
ATOM	10911	N	ASP	B	86	30.568	-66.788	-103.726	1.00	45.39	B N
ATOM	10912	CA	ASP	B	86	29.494	-67.279	-102.861	1.00	48.04	B C
ATOM	10914	CB	ASP	B	86	28.464	-68.043	-103.715	1.00	51.98	B C
ATOM	10917	CG	ASP	B	86	27.019	-67.680	-103.375	1.00	55.44	B C
ATOM	10918	OD1	ASP	B	86	26.702	-67.485	-102.172	1.00	55.49	B O
ATOM	10919	OD2	ASP	B	86	26.204	-67.599	-104.326	1.00	56.18	B O
ATOM	10920	C	ASP	B	86	30.025	-68.173	-101.728	1.00	47.18	B C
ATOM	10921	O	ASP	B	86	31.009	-68.899	-101.893	1.00	44.10	B O
ATOM	10923	N	VAL	B	87	29.344	-68.123	-100.588	1.00	51.42	B N
ATOM	10924	CA	VAL	B	87	29.763	-68.846	-99.388	1.00	53.62	B C
ATOM	10926	CB	VAL	B	87	29.495	-68.011	-98.088	1.00	52.27	B C
ATOM	10928	CG1	VAL	B	87	28.004	-67.973	-97.729	1.00	50.27	B C
ATOM	10932	CG2	VAL	B	87	30.293	-68.572	-96.925	1.00	53.70	B C
ATOM	10936	C	VAL	B	87	29.060	-70.204	-99.282	1.00	56.34	B C
ATOM	10937	O	VAL	B	87	27.860	-70.266	-98.998	1.00	59.22	B O
ATOM	10939	N	LEU	B	88	29.802	-71.285	-99.513	1.00	56.61	B N
ATOM	10940	CA	LEU	B	88	29.291	-72.628	-99.208	1.00	56.36	B C
ATOM	10942	CB	LEU	B	88	30.135	-73.743	-99.828	1.00	55.73	B C
ATOM	10945	CG	LEU	B	88	30.927	-73.474	-101.101	1.00	57.16	B C
ATOM	10947	CD1	LEU	B	88	32.233	-72.804	-100.738	1.00	57.21	B C
ATOM	10951	CD2	LEU	B	88	31.194	-74.772	-101.852	1.00	56.77	B C

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ATOM	10955	C	LEU	B	88	29.279	-72.816	-97.696	1.00	58.15	B	C
ATOM	10956	O	LEU	B	88	28.382	-73.460	-97.148	1.00	59.20	B	O
ATOM	10958	N	ARG	B	89	30.279	-72.240	-97.031	1.00	58.02	B	N
ATOM	10959	CA	ARG	B	89	30.506	-72.476	-95.615	1.00	56.49	B	C
ATOM	10961	CB	ARG	B	89	31.493	-73.637	-95.462	1.00	56.31	B	C
ATOM	10964	CG	ARG	B	89	31.111	-74.655	-94.403	1.00	58.01	B	C
ATOM	10967	CD	ARG	B	89	32.308	-75.519	-94.014	1.00	58.69	B	C
ATOM	10970	NE	ARG	B	89	32.954	-76.161	-95.165	1.00	59.80	B	N
ATOM	10972	CZ	ARG	B	89	34.171	-76.716	-95.142	1.00	59.60	B	C
ATOM	10973	NH1	ARG	B	89	34.903	-76.713	-94.029	1.00	59.72	B	N
ATOM	10976	NH2	ARG	B	89	34.667	-77.275	-96.242	1.00	59.64	B	N
ATOM	10979	C	ARG	B	89	31.059	-71.213	-94.936	1.00	55.64	B	C
ATOM	10980	O	ARG	B	89	32.066	-70.659	-95.379	1.00	55.70	B	O
ATOM	10982	N	ALA	B	90	30.383	-70.761	-93.879	1.00	53.33	B	N
ATOM	10983	CA	ALA	B	90	30.890	-69.707	-93.007	1.00	53.35	B	C
ATOM	10985	CB	ALA	B	90	29.846	-68.626	-92.805	1.00	51.34	B	C
ATOM	10989	C	ALA	B	90	31.248	-70.361	-91.676	1.00	54.21	B	C
ATOM	10990	O	ALA	B	90	30.362	-70.827	-90.960	1.00	55.99	B	O
ATOM	10992	N	VAL	B	91	32.544	-70.405	-91.362	1.00	53.95	B	N
ATOM	10993	CA	VAL	B	91	33.053	-71.093	-90.168	1.00	52.71	B	C
ATOM	10995	CB	VAL	B	91	34.194	-72.075	-90.532	1.00	51.83	B	C
ATOM	10997	CG1	VAL	B	91	34.645	-72.862	-89.299	1.00	49.35	B	C
ATOM	11001	CG2	VAL	B	91	33.757	-73.014	-91.651	1.00	52.30	B	C
ATOM	11005	C	VAL	B	91	33.585	-70.090	-89.139	1.00	52.51	B	C
ATOM	11006	O	VAL	B	91	34.754	-69.693	-89.209	1.00	51.51	B	O
ATOM	11008	N	PRO	B	92	32.736	-69.681	-88.175	1.00	53.51	B	N
ATOM	11009	CA	PRO	B	92	33.224	-68.806	-87.114	1.00	51.85	B	C
ATOM	11011	CB	PRO	B	92	31.939	-68.294	-86.452	1.00	53.50	B	C
ATOM	11014	CG	PRO	B	92	30.949	-69.371	-86.674	1.00	54.78	B	C
ATOM	11017	CD	PRO	B	92	31.309	-70.016	-87.997	1.00	54.99	B	C
ATOM	11020	C	PRO	B	92	34.040	-69.619	-86.131	1.00	53.38	B	C
ATOM	11021	O	PRO	B	92	33.904	-70.847	-86.091	1.00	55.30	B	O
ATOM	11022	N	HIS	B	93	34.887	-68.954	-85.352	1.00	49.46	B	N
ATOM	11023	CA	HIS	B	93	35.687	-69.656	-84.364	1.00	50.17	B	C
ATOM	11025	CB	HIS	B	93	36.722	-68.729	-83.736	1.00	44.28	B	C
ATOM	11028	CG	HIS	B	93	37.747	-69.441	-82.913	1.00	43.03	B	C
ATOM	11029	ND1	HIS	B	93	37.558	-69.741	-81.580	1.00	40.49	B	N
ATOM	11031	CE1	HIS	B	93	38.625	-70.367	-81.119	1.00	39.25	B	C
ATOM	11033	NE2	HIS	B	93	39.499	-70.477	-82.100	1.00	40.46	B	N
ATOM	11035	CD2	HIS	B	93	38.974	-69.910	-83.234	1.00	39.10	B	C
ATOM	11037	C	HIS	B	93	34.739	-70.223	-83.307	1.00	51.86	B	C
ATOM	11038	O	HIS	B	93	33.852	-69.508	-82.838	1.00	49.69	B	O
ATOM	11040	N	PRO	B	94	34.906	-71.518	-82.948	1.00	56.85	B	N
ATOM	11041	CA	PRO	B	94	33.962	-72.200	-82.044	1.00	57.28	B	C
ATOM	11043	CB	PRO	B	94	34.512	-73.632	-81.966	1.00	58.38	B	C
ATOM	11046	CG	PRO	B	94	35.934	-73.540	-82.418	1.00	59.16	B	C
ATOM	11049	CD	PRO	B	94	35.977	-72.426	-83.407	1.00	57.31	B	C
ATOM	11052	C	PRO	B	94	33.813	-71.613	-80.639	1.00	59.70	B	C
ATOM	11053	O	PRO	B	94	32.944	-72.058	-79.888	1.00	61.05	B	O
ATOM	11054	N	ASP	B	95	34.644	-70.633	-80.291	1.00	62.36	B	N
ATOM	11055	CA	ASP	B	95	34.550	-69.943	-79.006	1.00	62.17	B	C
ATOM	11057	CB	ASP	B	95	35.897	-70.022	-78.291	1.00	62.64	B	C
ATOM	11060	CG	ASP	B	95	36.443	-71.448	-78.239	1.00	64.10	B	C
ATOM	11061	OD1	ASP	B	95	35.639	-72.379	-78.025	1.00	64.82	B	O
ATOM	11062	OD2	ASP	B	95	37.667	-71.642	-78.414	1.00	62.75	B	O
ATOM	11063	C	ASP	B	95	34.091	-68.488	-79.160	1.00	62.12	B	C
ATOM	11064	O	ASP	B	95	34.092	-67.733	-78.190	1.00	62.21	B	O
ATOM	11066	N	SER	B	96	33.686	-68.108	-80.373	1.00	64.12	B	N
ATOM	11067	CA	SER	B	96	33.072	-66.801	-80.622	1.00	67.86	B	C
ATOM	11069	CB	SER	B	96	32.769	-66.610	-82.114	1.00	67.27	B	C
ATOM	11072	OG	SER	B	96	33.944	-66.581	-82.896	1.00	69.32	B	O
ATOM	11074	C	SER	B	96	31.756	-66.690	-79.868	1.00	71.20	B	C
ATOM	11075	O	SER	B	96	30.903	-67.566	-79.995	1.00	73.91	B	O
ATOM	11077	N	ARG	B	97	31.585	-65.618	-79.100	1.00	72.33	B	N
ATOM	11078	CA	ARG	B	97	30.307	-65.338	-78.443	1.00	74.80	B	C
ATOM	11080	CB	ARG	B	97	30.452	-65.464	-76.920	1.00	77.11	B	C
ATOM	11083	CG	ARG	B	97	30.883	-66.859	-76.437	1.00	78.58	B	C
ATOM	11086	CD	ARG	B	97	29.812	-67.931	-76.689	1.00	78.97	B	C

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ATOM	11089	NE	ARG	B	97	30.189	-69.250	-76.160	1.00	78.73	B	N
ATOM	11091	CZ	ARG	B	97	30.803	-70.224	-76.841	1.00	78.40	B	C
ATOM	11092	NH1	ARG	B	97	31.143	-70.073	-78.115	1.00	78.11	B	N
ATOM	11095	NH2	ARG	B	97	31.081	-71.374	-76.238	1.00	78.88	B	N
ATOM	11098	C	ARG	B	97	29.808	-63.942	-78.848	1.00	77.20	B	C
ATOM	11099	O	ARG	B	97	30.611	-63.069	-79.192	1.00	78.19	B	O
ATOM	11101	N	PRO	B	98	28.478	-63.725	-78.820	1.00	79.22	B	N
ATOM	11102	CA	PRO	B	98	27.922	-62.438	-79.259	1.00	77.99	B	C
ATOM	11104	CB	PRO	B	98	26.412	-62.708	-79.303	1.00	79.41	B	C
ATOM	11107	CG	PRO	B	98	26.194	-63.786	-78.299	1.00	80.09	B	C
ATOM	11110	CD	PRO	B	98	27.421	-64.654	-78.373	1.00	80.51	B	C
ATOM	11113	C	PRO	B	98	28.224	-61.273	-78.314	1.00	77.83	B	C
ATOM	11114	O	PRO	B	98	28.195	-60.115	-78.738	1.00	81.07	B	O
ATOM	11115	N	ASP	B	99	28.520	-61.584	-77.055	1.00	75.45	B	N
ATOM	11116	CA	ASP	B	99	28.696	-60.567	-76.018	1.00	74.68	B	C
ATOM	11118	CB	ASP	B	99	27.808	-60.903	-74.806	1.00	75.42	B	C
ATOM	11121	CG	ASP	B	99	28.062	-62.305	-74.242	1.00	75.50	B	C
ATOM	11122	OD1	ASP	B	99	28.493	-63.208	-74.998	1.00	75.59	B	O
ATOM	11123	OD2	ASP	B	99	27.816	-62.501	-73.034	1.00	74.97	B	O
ATOM	11124	C	ASP	B	99	30.166	-60.370	-75.590	1.00	74.55	B	C
ATOM	11125	O	ASP	B	99	30.433	-59.783	-74.529	1.00	73.12	B	O
ATOM	11127	N	THR	B	100	31.102	-60.857	-76.416	1.00	71.97	B	N
ATOM	11128	CA	THR	B	100	32.549	-60.683	-76.191	1.00	68.31	B	C
ATOM	11130	CB	THR	B	100	33.209	-61.940	-75.531	1.00	68.10	B	C
ATOM	11132	OG1	THR	B	100	33.318	-63.007	-76.485	1.00	67.69	B	O
ATOM	11134	CG2	THR	B	100	32.413	-62.419	-74.319	1.00	67.27	B	C
ATOM	11138	C	THR	B	100	33.269	-60.388	-77.512	1.00	66.00	B	C
ATOM	11139	O	THR	B	100	32.760	-60.730	-78.586	1.00	65.38	B	O
ATOM	11141	N	ILE	B	101	34.446	-59.760	-77.423	1.00	62.94	B	N
ATOM	11142	CA	ILE	B	101	35.312	-59.518	-78.606	1.00	60.61	B	C
ATOM	11144	CB	ILE	B	101	36.047	-58.113	-78.585	1.00	60.32	B	C
ATOM	11146	CG1	ILE	B	101	36.571	-57.713	-77.191	1.00	60.38	B	C
ATOM	11149	CD1	ILE	B	101	37.460	-58.737	-76.504	1.00	61.59	B	C
ATOM	11153	CG2	ILE	B	101	35.111	-57.023	-79.090	1.00	62.64	B	C
ATOM	11157	C	ILE	B	101	36.344	-60.637	-78.832	1.00	56.19	B	C
ATOM	11158	O	ILE	B	101	37.126	-60.580	-79.792	1.00	52.05	B	O
ATOM	11160	N	ASP	B	102	36.323	-61.650	-77.961	1.00	54.84	B	N
ATOM	11161	CA	ASP	B	102	37.302	-62.744	-77.994	1.00	53.53	B	C
ATOM	11163	CB	ASP	B	102	37.281	-63.526	-76.678	1.00	53.90	B	C
ATOM	11166	CG	ASP	B	102	37.603	-62.660	-75.467	1.00	54.72	B	C
ATOM	11167	OD1	ASP	B	102	38.778	-62.275	-75.287	1.00	53.14	B	O
ATOM	11168	OD2	ASP	B	102	36.676	-62.381	-74.680	1.00	57.45	B	O
ATOM	11169	C	ASP	B	102	37.032	-63.707	-79.140	1.00	52.43	B	C
ATOM	11170	O	ASP	B	102	35.880	-63.999	-79.452	1.00	53.84	B	O
ATOM	11172	N	HIS	B	103	38.105	-64.210	-79.750	1.00	52.18	B	N
ATOM	11173	CA	HIS	B	103	38.029	-65.200	-80.840	1.00	50.40	B	C
ATOM	11175	CB	HIS	B	103	37.534	-66.562	-80.306	1.00	46.91	B	C
ATOM	11178	CG	HIS	B	103	37.967	-66.840	-78.901	1.00	43.50	B	C
ATOM	11179	ND1	HIS	B	103	39.270	-67.144	-78.569	1.00	39.79	B	N
ATOM	11181	CE1	HIS	B	103	39.365	-67.292	-77.260	1.00	40.28	B	C
ATOM	11183	NE2	HIS	B	103	38.173	-67.086	-76.729	1.00	42.73	B	N
ATOM	11185	CD2	HIS	B	103	37.284	-66.786	-77.732	1.00	43.67	B	C
ATOM	11187	C	HIS	B	103	37.169	-64.695	-82.002	1.00	50.92	B	C
ATOM	11188	O	HIS	B	103	36.416	-65.457	-82.606	1.00	52.58	B	O
ATOM	11190	N	ASP	B	104	37.318	-63.408	-82.320	1.00	48.05	B	N
ATOM	11191	CA	ASP	B	104	36.531	-62.752	-83.362	1.00	45.62	B	C
ATOM	11193	CB	ASP	B	104	36.468	-61.237	-83.082	1.00	49.77	B	C
ATOM	11196	CG	ASP	B	104	35.301	-60.539	-83.798	1.00	51.56	B	C
ATOM	11197	OD1	ASP	B	104	34.758	-61.095	-84.781	1.00	49.90	B	O
ATOM	11198	OD2	ASP	B	104	34.932	-59.422	-83.364	1.00	51.77	B	O
ATOM	11199	C	ASP	B	104	37.096	-63.039	-84.763	1.00	42.55	B	C
ATOM	11200	O	ASP	B	104	37.383	-62.124	-85.544	1.00	44.53	B	O
ATOM	11202	N	LEU	B	105	37.243	-64.318	-85.078	1.00	38.63	B	N
ATOM	11203	CA	LEU	B	105	37.646	-64.736	-86.408	1.00	39.07	B	C
ATOM	11205	CB	LEU	B	105	38.946	-65.551	-86.365	1.00	36.49	B	C
ATOM	11208	CG	LEU	B	105	40.246	-64.834	-85.975	1.00	35.30	B	C
ATOM	11210	CD1	LEU	B	105	41.428	-65.680	-86.418	1.00	30.02	B	C
ATOM	11214	CD2	LEU	B	105	40.350	-63.419	-86.564	1.00	27.58	B	C

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ATOM	11218	C	LEU	B	105	36.529	-65.531	-87.084	1.00	37.85	B	C
ATOM	11219	O	LEU	B	105	35.570	-65.987	-86.451	1.00	36.57	B	O
ATOM	11221	N	LEU	B	106	36.672	-65.669	-88.392	1.00	38.28	B	N
ATOM	11222	CA	LEU	B	106	35.652	-66.253	-89.236	1.00	37.87	B	C
ATOM	11224	CB	LEU	B	106	34.492	-65.269	-89.425	1.00	37.41	B	C
ATOM	11227	CG	LEU	B	106	33.396	-65.570	-90.451	1.00	38.93	B	C
ATOM	11229	CD1	LEU	B	106	32.659	-66.829	-90.070	1.00	40.78	B	C
ATOM	11233	CD2	LEU	B	106	32.418	-64.421	-90.557	1.00	38.72	B	C
ATOM	11237	C	LEU	B	106	36.332	-66.526	-90.549	1.00	35.77	B	C
ATOM	11238	O	LEU	B	106	36.895	-65.617	-91.139	1.00	36.74	B	O
ATOM	11240	N	LEU	B	107	36.332	-67.788	-90.967	1.00	37.47	B	N
ATOM	11241	CA	LEU	B	107	36.800	-68.161	-92.291	1.00	37.61	B	C
ATOM	11243	CB	LEU	B	107	37.690	-69.408	-92.245	1.00	33.00	B	C
ATOM	11246	CG	LEU	B	107	39.217	-69.303	-92.192	1.00	30.37	B	C
ATOM	11248	CD1	LEU	B	107	39.749	-68.219	-93.101	1.00	24.93	B	C
ATOM	11252	CD2	LEU	B	107	39.684	-69.095	-90.771	1.00	33.70	B	C
ATOM	11256	C	LEU	B	107	35.590	-68.431	-93.186	1.00	40.15	B	C
ATOM	11257	O	LEU	B	107	34.655	-69.141	-92.802	1.00	38.93	B	O
ATOM	11259	N	LEU	B	108	35.617	-67.851	-94.379	1.00	42.05	B	N
ATOM	11260	CA	LEU	B	108	34.572	-68.061	-95.367	1.00	40.63	B	C
ATOM	11262	CB	LEU	B	108	34.027	-66.720	-95.868	1.00	41.05	B	C
ATOM	11265	CG	LEU	B	108	33.297	-65.870	-94.834	1.00	38.75	B	C
ATOM	11267	CD1	LEU	B	108	32.967	-64.503	-95.423	1.00	38.60	B	C
ATOM	11271	CD2	LEU	B	108	32.049	-66.577	-94.335	1.00	38.22	B	C
ATOM	11275	C	LEU	B	108	35.175	-68.825	-96.517	1.00	38.65	B	C
ATOM	11276	O	LEU	B	108	36.215	-68.425	-97.034	1.00	34.86	B	O
ATOM	11278	N	GLN	B	109	34.528	-69.931	-96.894	1.00	41.50	B	N
ATOM	11279	CA	GLN	B	109	34.919	-70.715	-98.058	1.00	41.30	B	C
ATOM	11281	CB	GLN	B	109	34.588	-72.181	-97.835	1.00	42.46	B	C
ATOM	11284	CG	GLN	B	109	35.153	-73.091	-98.902	1.00	40.86	B	C
ATOM	11287	CD	GLN	B	109	34.876	-74.548	-98.621	1.00	41.42	B	C
ATOM	11288	OE1	GLN	B	109	35.635	-75.423	-99.043	1.00	39.42	B	O
ATOM	11289	NE2	GLN	B	109	33.790	-74.820	-97.895	1.00	39.58	B	N
ATOM	11292	C	GLN	B	109	34.175	-70.249	-99.300	1.00	40.95	B	C
ATOM	11293	O	GLN	B	109	32.957	-70.094	-99.273	1.00	42.76	B	O
ATOM	11295	N	LEU	B	110	34.910	-70.059	-100.389	1.00	40.96	B	N
ATOM	11296	CA	LEU	B	110	34.327	-69.643	-101.659	1.00	42.75	B	C
ATOM	11298	CB	LEU	B	110	35.320	-68.784	-102.443	1.00	40.37	B	C
ATOM	11301	CG	LEU	B	110	35.955	-67.610	-101.699	1.00	37.73	B	C
ATOM	11303	CD1	LEU	B	110	36.882	-66.842	-102.633	1.00	37.30	B	C
ATOM	11307	CD2	LEU	B	110	34.893	-66.707	-101.107	1.00	33.94	B	C
ATOM	11311	C	LEU	B	110	33.934	-70.865	-102.495	1.00	45.66	B	C
ATOM	11312	O	LEU	B	110	34.657	-71.866	-102.530	1.00	46.73	B	O
ATOM	11314	N	SER	B	111	32.791	-70.767	-103.176	1.00	49.04	B	N
ATOM	11315	CA	SER	B	111	32.243	-71.863	-103.998	1.00	48.62	B	C
ATOM	11317	CB	SER	B	111	30.957	-71.411	-104.699	1.00	49.22	B	C
ATOM	11320	OG	SER	B	111	29.899	-71.270	-103.764	1.00	48.64	B	O
ATOM	11322	C	SER	B	111	33.218	-72.434	-105.024	1.00	48.30	B	C
ATOM	11323	O	SER	B	111	33.028	-73.552	-105.491	1.00	50.90	B	O
ATOM	11325	N	GLU	B	112	34.239	-71.662	-105.386	1.00	49.02	B	N
ATOM	11326	CA	GLU	B	112	35.342	-72.168	-106.191	1.00	52.04	B	C
ATOM	11328	CB	GLU	B	112	34.983	-72.126	-107.681	1.00	54.27	B	C
ATOM	11331	CG	GLU	B	112	34.484	-70.771	-108.181	1.00	56.58	B	C
ATOM	11334	CD	GLU	B	112	34.564	-70.635	-109.697	1.00	57.28	B	C
ATOM	11335	OE1	GLU	B	112	34.192	-71.591	-110.417	1.00	57.99	B	O
ATOM	11336	OE2	GLU	B	112	35.007	-69.565	-110.165	1.00	59.49	B	O
ATOM	11337	C	GLU	B	112	36.631	-71.387	-105.929	1.00	51.93	B	C
ATOM	11338	O	GLU	B	112	36.595	-70.249	-105.455	1.00	52.44	B	O
ATOM	11340	N	LYS	B	113	37.766	-72.017	-106.233	1.00	52.83	B	N
ATOM	11341	CA	LYS	B	113	39.072	-71.364	-106.149	1.00	52.48	B	C
ATOM	11343	CB	LYS	B	113	40.196	-72.328	-106.543	1.00	53.45	B	C
ATOM	11346	CG	LYS	B	113	40.395	-73.504	-105.584	1.00	54.09	B	C
ATOM	11349	CD	LYS	B	113	41.302	-74.583	-106.178	1.00	54.33	B	C
ATOM	11352	CE	LYS	B	113	42.759	-74.143	-106.229	1.00	54.82	B	C
ATOM	11355	NZ	LYS	B	113	43.638	-75.165	-106.881	1.00	53.92	B	N
ATOM	11359	C	LYS	B	113	39.092	-70.151	-107.073	1.00	53.27	B	C
ATOM	11360	O	LYS	B	113	38.843	-70.275	-108.272	1.00	57.18	B	O
ATOM	11362	N	ALA	B	114	39.381	-68.985	-106.505	1.00	51.39	B	N

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ATOM	11363	CA	ALA	B	114	39.364	-67.724	-107.240	1.00	49.30	B C
ATOM	11365	CB	ALA	B	114	39.438	-66.543	-106.252	1.00	50.14	B C
ATOM	11369	C	ALA	B	114	40.510	-67.646	-108.238	1.00	46.01	B C
ATOM	11370	O	ALA	B	114	41.560	-68.261	-108.036	1.00	43.29	B O
ATOM	11372	N	THR	B	115	40.315	-66.886	-109.313	1.00	46.36	B N
ATOM	11373	CA	THR	B	115	41.363	-66.748	-110.329	1.00	48.03	B C
ATOM	11375	CB	THR	B	115	40.816	-66.289	-111.710	1.00	48.67	B C
ATOM	11377	OG1	THR	B	115	39.528	-66.873	-111.944	1.00	50.37	B O
ATOM	11379	CG2	THR	B	115	41.782	-66.692	-112.842	1.00	45.96	B C
ATOM	11383	C	THR	B	115	42.426	-65.768	-109.838	1.00	46.66	B C
ATOM	11384	O	THR	B	115	42.138	-64.596	-109.582	1.00	46.92	B O
ATOM	11386	N	LEU	B	116	43.646	-66.276	-109.695	1.00	46.90	B N
ATOM	11387	CA	LEU	B	116	44.787	-65.481	-109.254	1.00	48.21	B C
ATOM	11389	CB	LEU	B	116	45.867	-66.379	-108.619	1.00	47.80	B C
ATOM	11392	CG	LEU	B	116	45.751	-66.649	-107.114	1.00	46.50	B C
ATOM	11394	CD1	LEU	B	116	44.349	-67.133	-106.714	1.00	45.05	B C
ATOM	11398	CD2	LEU	B	116	46.821	-67.645	-106.683	1.00	47.63	B C
ATOM	11402	C	LEU	B	116	45.393	-64.680	-110.412	1.00	50.28	B C
ATOM	11403	O	LEU	B	116	45.627	-65.215	-111.505	1.00	51.04	B O
ATOM	11405	N	GLY	B	117	45.640	-63.398	-110.155	1.00	50.18	B N
ATOM	11406	CA	GLY	B	117	46.328	-62.514	-111.099	1.00	49.80	B C
ATOM	11409	C	GLY	B	117	46.903	-61.316	-110.363	1.00	51.23	B C
ATOM	11410	O	GLY	B	117	46.903	-61.284	-109.128	1.00	52.42	B O
ATOM	11412	N	PRO	B	118	47.411	-60.321	-111.109	1.00	50.57	B N
ATOM	11413	CA	PRO	B	118	47.839	-59.053	-110.508	1.00	48.91	B C
ATOM	11415	CB	PRO	B	118	47.901	-58.112	-111.720	1.00	49.04	B C
ATOM	11418	CG	PRO	B	118	48.293	-59.008	-112.856	1.00	50.73	B C
ATOM	11421	CD	PRO	B	118	47.652	-60.349	-112.567	1.00	51.39	B C
ATOM	11424	C	PRO	B	118	46.892	-58.489	-109.416	1.00	47.46	B C
ATOM	11425	O	PRO	B	118	47.365	-57.899	-108.435	1.00	49.48	B O
ATOM	11426	N	ALA	B	119	45.582	-58.693	-109.583	1.00	44.58	B N
ATOM	11427	CA	ALA	B	119	44.566	-58.084	-108.720	1.00	42.93	B C
ATOM	11429	CB	ALA	B	119	43.510	-57.395	-109.582	1.00	41.17	B C
ATOM	11433	C	ALA	B	119	43.884	-59.040	-107.738	1.00	39.52	B C
ATOM	11434	O	ALA	B	119	43.041	-58.607	-106.952	1.00	37.52	B O
ATOM	11436	N	VAL	B	120	44.217	-60.328	-107.790	1.00	38.53	B N
ATOM	11437	CA	VAL	B	120	43.726	-61.292	-106.791	1.00	40.55	B C
ATOM	11439	CB	VAL	B	120	42.462	-62.067	-107.281	1.00	36.70	B C
ATOM	11441	CG1	VAL	B	120	41.940	-63.001	-106.186	1.00	35.55	B C
ATOM	11445	CG2	VAL	B	120	41.356	-61.100	-107.718	1.00	30.29	B C
ATOM	11449	C	VAL	B	120	44.858	-62.260	-106.379	1.00	41.98	B C
ATOM	11450	O	VAL	B	120	45.413	-62.971	-107.215	1.00	42.33	B O
ATOM	11452	N	ARG	B	121	45.205	-62.261	-105.090	1.00	44.37	B N
ATOM	11453	CA	ARG	B	121	46.329	-63.059	-104.584	1.00	44.25	B C
ATOM	11455	CB	ARG	B	121	47.656	-62.403	-104.978	1.00	45.39	B C
ATOM	11458	CG	ARG	B	121	48.897	-63.289	-104.806	1.00	47.79	B C
ATOM	11461	CD	ARG	B	121	50.160	-62.514	-105.159	1.00	50.33	B C
ATOM	11464	NE	ARG	B	121	49.955	-61.682	-106.349	1.00	53.92	B N
ATOM	11466	CZ	ARG	B	121	50.021	-62.112	-107.615	1.00	56.26	B C
ATOM	11467	NH1	ARG	B	121	50.305	-63.384	-107.904	1.00	57.13	B N
ATOM	11470	NH2	ARG	B	121	49.808	-61.254	-108.611	1.00	55.53	B N
ATOM	11473	C	ARG	B	121	46.248	-63.168	-103.063	1.00	40.77	B C
ATOM	11474	O	ARG	B	121	46.069	-62.153	-102.401	1.00	43.84	B O
ATOM	11476	N	PRO	B	122	46.406	-64.385	-102.500	1.00	39.83	B N
ATOM	11477	CA	PRO	B	122	46.275	-64.491	-101.045	1.00	40.66	B C
ATOM	11479	CB	PRO	B	122	46.121	-66.004	-100.790	1.00	40.42	B C
ATOM	11482	CG	PRO	B	122	46.283	-66.689	-102.114	1.00	40.82	B C
ATOM	11485	CD	PRO	B	122	46.745	-65.681	-103.119	1.00	41.88	B C
ATOM	11488	C	PRO	B	122	47.496	-63.927	-100.307	1.00	39.03	B C
ATOM	11489	O	PRO	B	122	48.611	-63.920	-100.850	1.00	39.15	B O
ATOM	11490	N	LEU	B	123	47.270	-63.458	-99.083	1.00	37.40	B N
ATOM	11491	CA	LEU	B	123	48.318	-62.808	-98.293	1.00	36.54	B C
ATOM	11493	CB	LEU	B	123	47.740	-61.604	-97.553	1.00	34.60	B C
ATOM	11496	CG	LEU	B	123	48.687	-60.681	-96.784	1.00	32.58	B C
ATOM	11498	CD1	LEU	B	123	47.860	-59.601	-96.160	1.00	25.32	B C
ATOM	11502	CD2	LEU	B	123	49.779	-60.082	-97.690	1.00	32.13	B C
ATOM	11506	C	LEU	B	123	48.936	-63.770	-97.283	1.00	34.27	B C
ATOM	11507	O	LEU	B	123	48.206	-64.391	-96.498	1.00	31.78	B O

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ATOM	11509	N	PRO	B	124	50.280	-63.893	-97.297	1.00	32.59	B	N
ATOM	11510	CA	PRO	B	124	50.990	-64.591	-96.225	1.00	34.78	B	C
ATOM	11512	CB	PRO	B	124	52.472	-64.328	-96.541	1.00	34.18	B	C
ATOM	11515	CG	PRO	B	124	52.506	-64.085	-97.999	1.00	35.47	B	C
ATOM	11518	CD	PRO	B	124	51.205	-63.409	-98.339	1.00	33.59	B	C
ATOM	11521	C	PRO	B	124	50.630	-64.034	-94.847	1.00	32.21	B	C
ATOM	11522	O	PRO	B	124	50.732	-62.826	-94.619	1.00	27.23	B	O
ATOM	11523	N	TRP	B	125	50.217	-64.924	-93.953	1.00	32.05	B	N
ATOM	11524	CA	TRP	B	125	49.784	-64.554	-92.615	1.00	34.23	B	C
ATOM	11526	CB	TRP	B	125	48.371	-65.103	-92.331	1.00	34.29	B	C
ATOM	11529	CG	TRP	B	125	48.195	-66.586	-92.482	1.00	35.41	B	C
ATOM	11530	CD1	TRP	B	125	47.992	-67.282	-93.646	1.00	36.40	B	C
ATOM	11532	NE1	TRP	B	125	47.873	-68.627	-93.380	1.00	36.37	B	N
ATOM	11534	CE2	TRP	B	125	47.992	-68.822	-92.030	1.00	37.31	B	C
ATOM	11535	CD2	TRP	B	125	48.193	-67.557	-91.434	1.00	36.10	B	C
ATOM	11536	CE3	TRP	B	125	48.358	-67.485	-90.052	1.00	35.45	B	C
ATOM	11538	CZ3	TRP	B	125	48.309	-68.650	-89.316	1.00	35.37	B	C
ATOM	11540	CH2	TRP	B	125	48.099	-69.887	-89.927	1.00	34.82	B	C
ATOM	11542	CZ2	TRP	B	125	47.940	-69.997	-91.284	1.00	36.30	B	C
ATOM	11544	C	TRP	B	125	50.815	-64.998	-91.564	1.00	35.21	B	C
ATOM	11545	O	TRP	B	125	51.567	-65.952	-91.786	1.00	39.04	B	O
ATOM	11547	N	GLN	B	126	50.874	-64.279	-90.440	1.00	33.62	B	N
ATOM	11548	CA	GLN	B	126	51.883	-64.552	-89.406	1.00	33.70	B	C
ATOM	11550	CB	GLN	B	126	52.055	-63.396	-88.407	1.00	31.61	B	C
ATOM	11553	CG	GLN	B	126	53.242	-63.609	-87.424	1.00	28.87	B	C
ATOM	11556	CD	GLN	B	126	54.593	-63.756	-88.130	1.00	28.85	B	C
ATOM	11557	OE1	GLN	B	126	55.110	-64.859	-88.285	1.00	30.93	B	O
ATOM	11558	NE2	GLN	B	126	55.150	-62.645	-88.573	1.00	30.67	B	N
ATOM	11561	C	GLN	B	126	51.566	-65.813	-88.630	1.00	33.71	B	C
ATOM	11562	O	GLN	B	126	50.486	-65.950	-88.037	1.00	33.51	B	O
ATOM	11564	N	ARG	B	127	52.563	-66.688	-88.608	1.00	31.77	B	N
ATOM	11565	CA	ARG	B	127	52.469	-68.033	-88.072	1.00	33.43	B	C
ATOM	11567	CB	ARG	B	127	53.161	-68.965	-89.068	1.00	33.90	B	C
ATOM	11570	CG	ARG	B	127	53.176	-70.433	-88.690	1.00	39.72	B	C
ATOM	11573	CD	ARG	B	127	53.622	-71.280	-89.881	1.00	41.87	B	C
ATOM	11576	NE	ARG	B	127	52.650	-71.168	-90.970	1.00	45.09	B	N
ATOM	11578	CZ	ARG	B	127	51.514	-71.856	-91.048	1.00	44.24	B	C
ATOM	11579	NH1	ARG	B	127	51.193	-72.740	-90.109	1.00	43.32	B	N
ATOM	11582	NH2	ARG	B	127	50.695	-71.659	-92.075	1.00	42.33	B	N
ATOM	11585	C	ARG	B	127	53.129	-68.168	-86.695	1.00	30.09	B	C
ATOM	11586	O	ARG	B	127	52.744	-69.034	-85.892	1.00	26.87	B	O
ATOM	11588	N	VAL	B	128	54.142	-67.330	-86.455	1.00	26.17	B	N
ATOM	11589	CA	VAL	B	128	54.966	-67.381	-85.247	1.00	24.60	B	C
ATOM	11591	CB	VAL	B	128	56.424	-66.916	-85.551	1.00	20.93	B	C
ATOM	11593	CG1	VAL	B	128	57.298	-66.974	-84.310	1.00	17.45	B	C
ATOM	11597	CG2	VAL	B	128	57.041	-67.748	-86.713	1.00	17.68	B	C
ATOM	11601	C	VAL	B	128	54.311	-66.450	-84.232	1.00	21.94	B	C
ATOM	11602	O	VAL	B	128	54.173	-65.252	-84.491	1.00	22.55	B	O
ATOM	11604	N	ASP	B	129	53.875	-67.011	-83.109	1.00	18.70	B	N
ATOM	11605	CA	ASP	B	129	53.161	-66.257	-82.092	1.00	23.72	B	C
ATOM	11607	CB	ASP	B	129	52.415	-67.214	-81.159	1.00	24.41	B	C
ATOM	11610	CG	ASP	B	129	51.400	-66.528	-80.296	1.00	25.51	B	C
ATOM	11611	OD1	ASP	B	129	51.250	-65.297	-80.378	1.00	29.26	B	O
ATOM	11612	OD2	ASP	B	129	50.727	-67.224	-79.519	1.00	26.23	B	O
ATOM	11613	C	ASP	B	129	54.168	-65.391	-81.336	1.00	23.86	B	C
ATOM	11614	O	ASP	B	129	54.766	-65.810	-80.348	1.00	21.25	B	O
ATOM	11616	N	ARG	B	130	54.382	-64.196	-81.865	1.00	26.50	B	N
ATOM	11617	CA	ARG	B	130	55.261	-63.200	-81.269	1.00	28.45	B	C
ATOM	11619	CB	ARG	B	130	56.670	-63.300	-81.867	1.00	28.36	B	C
ATOM	11622	CG	ARG	B	130	57.737	-62.612	-81.035	1.00	32.41	B	C
ATOM	11625	CD	ARG	B	130	59.078	-62.489	-81.761	1.00	39.23	B	C
ATOM	11628	NE	ARG	B	130	59.910	-63.697	-81.704	1.00	43.31	B	N
ATOM	11630	CZ	ARG	B	130	60.155	-64.511	-82.734	1.00	46.13	B	C
ATOM	11631	NH1	ARG	B	130	59.630	-64.278	-83.942	1.00	45.77	B	N
ATOM	11634	NH2	ARG	B	130	60.937	-65.577	-82.555	1.00	46.50	B	N
ATOM	11637	C	ARG	B	130	54.657	-61.838	-81.581	1.00	25.04	B	C
ATOM	11638	O	ARG	B	130	54.446	-61.515	-82.749	1.00	21.19	B	O
ATOM	11640	N	ASP	B	131	54.362	-61.064	-80.543	1.00	24.39	B	N

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ATOM	11641	CA	ASP	B	131	53.761	-59.739	-80.689	1.00	23.69	B	C
ATOM	11643	CB	ASP	B	131	53.849	-58.962	-79.380	1.00	23.97	B	C
ATOM	11646	CG	ASP	B	131	52.866	-59.419	-78.369	1.00	22.63	B	C
ATOM	11647	OD1	ASP	B	131	51.935	-60.139	-78.743	1.00	25.98	B	O
ATOM	11648	OD2	ASP	B	131	53.020	-59.044	-77.192	1.00	25.21	B	O
ATOM	11649	C	ASP	B	131	54.455	-58.904	-81.732	1.00	22.63	B	C
ATOM	11650	O	ASP	B	131	55.676	-58.942	-81.840	1.00	25.47	B	O
ATOM	11652	N	VAL	B	132	53.672	-58.159	-82.503	1.00	20.80	B	N
ATOM	11653	CA	VAL	B	132	54.218	-57.057	-83.278	1.00	19.03	B	C
ATOM	11655	CB	VAL	B	132	53.214	-56.499	-84.325	1.00	19.19	B	C
ATOM	11657	CG1	VAL	B	132	53.756	-55.225	-84.981	1.00	18.01	B	C
ATOM	11661	CG2	VAL	B	132	52.940	-57.543	-85.412	1.00	14.19	B	C
ATOM	11665	C	VAL	B	132	54.614	-56.005	-82.245	1.00	22.76	B	C
ATOM	11666	O	VAL	B	132	53.875	-55.718	-81.290	1.00	16.29	B	O
ATOM	11668	N	GLU	B	133	55.806	-55.459	-82.407	1.00	22.76	B	N
ATOM	11669	CA	GLU	B	133	56.359	-54.556	-81.401	1.00	20.31	B	C
ATOM	11671	CB	GLU	B	133	57.835	-54.332	-81.681	1.00	18.25	B	C
ATOM	11674	CG	GLU	B	133	58.627	-55.540	-81.396	1.00	17.67	B	C
ATOM	11677	CD	GLU	B	133	60.012	-55.429	-81.911	1.00	15.27	B	C
ATOM	11678	OE1	GLU	B	133	60.338	-54.365	-82.482	1.00	18.17	B	O
ATOM	11679	OE2	GLU	B	133	60.766	-56.403	-81.738	1.00	14.57	B	O
ATOM	11680	C	GLU	B	133	55.673	-53.223	-81.407	1.00	16.40	B	C
ATOM	11681	O	GLU	B	133	55.391	-52.713	-82.486	1.00	11.97	B	O
ATOM	11683	N	PRO	B	134	55.412	-52.650	-80.201	1.00	15.37	B	N
ATOM	11684	CA	PRO	B	134	54.860	-51.315	-80.076	1.00	17.80	B	C
ATOM	11686	CB	PRO	B	134	55.137	-50.949	-78.609	1.00	16.82	B	C
ATOM	11689	CG	PRO	B	134	55.266	-52.233	-77.898	1.00	17.07	B	C
ATOM	11692	CD	PRO	B	134	55.671	-53.265	-78.882	1.00	16.65	B	C
ATOM	11695	C	PRO	B	134	55.577	-50.332	-80.987	1.00	17.30	B	C
ATOM	11696	O	PRO	B	134	56.811	-50.343	-81.073	1.00	21.19	B	O
ATOM	11697	N	GLY	B	135	54.807	-49.501	-81.668	1.00	18.47	B	N
ATOM	11698	CA	GLY	B	135	55.370	-48.488	-82.531	1.00	19.00	B	C
ATOM	11701	C	GLY	B	135	55.460	-48.896	-83.977	1.00	17.35	B	C
ATOM	11702	O	GLY	B	135	55.489	-48.036	-84.845	1.00	27.90	B	O
ATOM	11704	N	THR	B	136	55.497	-50.194	-84.266	1.00	20.52	B	N
ATOM	11705	CA	THR	B	136	55.588	-50.629	-85.661	1.00	22.00	B	C
ATOM	11707	CB	THR	B	136	55.579	-52.179	-85.827	1.00	18.31	B	C
ATOM	11709	OG1	THR	B	136	56.321	-52.804	-84.762	1.00	13.04	B	O
ATOM	11711	CG2	THR	B	136	56.203	-52.574	-87.172	1.00	18.38	B	C
ATOM	11715	C	THR	B	136	54.414	-50.034	-86.443	1.00	23.24	B	C
ATOM	11716	O	THR	B	136	53.261	-50.090	-85.986	1.00	24.17	B	O
ATOM	11718	N	LEU	B	137	54.718	-49.440	-87.595	1.00	23.72	B	N
ATOM	11719	CA	LEU	B	137	53.699	-48.917	-88.496	1.00	24.22	B	C
ATOM	11721	CB	LEU	B	137	54.286	-47.849	-89.424	1.00	25.95	B	C
ATOM	11724	CG	LEU	B	137	54.947	-46.636	-88.754	1.00	30.15	B	C
ATOM	11726	CD1	LEU	B	137	55.655	-45.771	-89.793	1.00	29.17	B	C
ATOM	11730	CD2	LEU	B	137	53.939	-45.810	-87.979	1.00	26.86	B	C
ATOM	11734	C	LEU	B	137	53.117	-50.047	-89.337	1.00	23.10	B	C
ATOM	11735	O	LEU	B	137	53.832	-50.670	-90.122	1.00	27.08	B	O
ATOM	11737	N	CYS	B	138	51.818	-50.287	-89.183	1.00	25.84	B	N
ATOM	11738	CA	CYS	B	138	51.112	-51.326	-89.933	1.00	27.63	B	C
ATOM	11740	CB	CYS	B	138	50.395	-52.288	-88.979	1.00	27.57	B	C
ATOM	11743	SG	CYS	B	138	51.412	-53.304	-87.825	1.00	29.65	B	S
ATOM	11745	C	CYS	B	138	50.084	-50.696	-90.877	1.00	24.10	B	C
ATOM	11746	O	CYS	B	138	49.595	-49.608	-90.627	1.00	19.77	B	O
ATOM	11748	N	ASP	B	139	49.753	-51.392	-91.960	1.00	23.67	B	N
ATOM	11749	CA	ASP	B	139	48.785	-50.902	-92.941	1.00	22.41	B	C
ATOM	11751	CB	ASP	B	139	49.328	-51.204	-94.344	1.00	30.30	B	C
ATOM	11754	CG	ASP	B	139	48.369	-50.804	-95.445	1.00	31.38	B	C
ATOM	11755	OD1	ASP	B	139	48.266	-49.593	-95.735	1.00	31.27	B	O
ATOM	11756	OD2	ASP	B	139	47.732	-51.720	-96.016	1.00	37.08	B	O
ATOM	11757	C	ASP	B	139	47.424	-51.582	-92.715	1.00	21.74	B	C
ATOM	11758	O	ASP	B	139	47.369	-52.791	-92.620	1.00	25.00	B	O
ATOM	11760	N	VAL	B	140	46.340	-50.806	-92.571	1.00	27.87	B	N
ATOM	11761	CA	VAL	B	140	44.958	-51.351	-92.520	1.00	23.33	B	C
ATOM	11763	CB	VAL	B	140	44.256	-51.057	-91.178	1.00	23.44	B	C
ATOM	11765	CG1	VAL	B	140	44.178	-49.566	-90.929	1.00	23.51	B	C
ATOM	11769	CG2	VAL	B	140	42.862	-51.662	-91.187	1.00	23.35	B	C

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ATOM	11773	C	VAL	B	140	44.095	-50.762	-93.644	1.00	25.55	B	C
ATOM	11774	O	VAL	B	140	44.131	-49.556	-93.878	1.00	26.66	B	O
ATOM	11776	N	ALA	B	141	43.317	-51.611	-94.321	1.00	28.46	B	N
ATOM	11777	CA	ALA	B	141	42.506	-51.212	-95.481	1.00	27.18	B	C
ATOM	11779	CB	ALA	B	141	43.079	-51.819	-96.741	1.00	25.46	B	C
ATOM	11783	C	ALA	B	141	41.035	-51.604	-95.327	1.00	28.30	B	C
ATOM	11784	O	ALA	B	141	40.699	-52.565	-94.632	1.00	26.48	B	O
ATOM	11786	N	GLY	B	142	40.154	-50.848	-95.979	1.00	31.86	B	N
ATOM	11787	CA	GLY	B	142	38.715	-51.118	-95.914	1.00	31.54	B	C
ATOM	11790	C	GLY	B	142	37.807	-50.119	-96.635	1.00	33.87	B	C
ATOM	11791	O	GLY	B	142	38.220	-49.012	-97.000	1.00	33.90	B	O
ATOM	11793	N	TRP	B	143	36.564	-50.545	-96.851	1.00	32.79	B	N
ATOM	11794	CA	TRP	B	143	35.511	-49.701	-97.408	1.00	29.63	B	C
ATOM	11796	CB	TRP	B	143	34.685	-50.448	-98.474	1.00	26.76	B	C
ATOM	11799	CG	TRP	B	143	35.401	-50.828	-99.744	1.00	26.59	B	C
ATOM	11800	CD1	TRP	B	143	35.463	-50.107	-100.896	1.00	25.81	B	C
ATOM	11802	NE1	TRP	B	143	36.190	-50.791	-101.850	1.00	28.24	B	N
ATOM	11804	CE2	TRP	B	143	36.600	-51.986	-101.320	1.00	30.12	B	C
ATOM	11805	CD2	TRP	B	143	36.109	-52.049	-99.993	1.00	28.49	B	C
ATOM	11806	CE3	TRP	B	143	36.391	-53.183	-99.220	1.00	27.79	B	C
ATOM	11808	CZ3	TRP	B	143	37.141	-54.207	-99.789	1.00	26.22	B	C
ATOM	11810	CH2	TRP	B	143	37.611	-54.117	-101.109	1.00	26.40	B	C
ATOM	11812	CZ2	TRP	B	143	37.353	-53.016	-101.888	1.00	27.88	B	C
ATOM	11814	C	TRP	B	143	34.589	-49.300	-96.264	1.00	28.31	B	C
ATOM	11815	O	TRP	B	143	33.396	-49.120	-96.471	1.00	31.03	B	O
ATOM	11817	N	GLY	B	144	35.138	-49.170	-95.057	1.00	30.95	B	N
ATOM	11818	CA	GLY	B	144	34.359	-48.766	-93.887	1.00	28.10	B	C
ATOM	11821	C	GLY	B	144	34.142	-47.272	-93.898	1.00	25.72	B	C
ATOM	11822	O	GLY	B	144	34.825	-46.555	-94.639	1.00	23.47	B	O
ATOM	11824	N	ILE	B	145	33.214	-46.798	-93.063	1.00	29.43	B	N
ATOM	11825	CA	ILE	B	145	32.906	-45.360	-92.970	1.00	33.48	B	C
ATOM	11827	CB	ILE	B	145	31.805	-45.016	-91.875	1.00	34.96	B	C
ATOM	11829	CG1	ILE	B	145	32.240	-45.405	-90.455	1.00	35.09	B	C
ATOM	11832	CD1	ILE	B	145	31.175	-45.095	-89.339	1.00	30.59	B	C
ATOM	11836	CG2	ILE	B	145	30.473	-45.698	-92.215	1.00	34.74	B	C
ATOM	11840	C	ILE	B	145	34.202	-44.570	-92.754	1.00	37.06	B	C
ATOM	11841	O	ILE	B	145	35.143	-45.046	-92.102	1.00	42.92	B	O
ATOM	11843	N	VAL	B	146	34.256	-43.373	-93.326	1.00	37.33	B	N
ATOM	11844	CA	VAL	B	146	35.512	-42.631	-93.458	1.00	38.16	B	C
ATOM	11846	CB	VAL	B	146	35.520	-41.823	-94.788	1.00	39.60	B	C
ATOM	11848	CG1	VAL	B	146	35.030	-40.390	-94.567	1.00	40.07	B	C
ATOM	11852	CG2	VAL	B	146	36.896	-41.862	-95.437	1.00	40.03	B	C
ATOM	11856	C	VAL	B	146	35.765	-41.754	-92.224	1.00	38.99	B	C
ATOM	11857	O	VAL	B	146	36.832	-41.151	-92.075	1.00	36.62	B	O
ATOM	11859	N	SER	B	147	34.761	-41.716	-91.348	1.00	37.10	B	N
ATOM	11860	CA	SER	B	147	34.805	-41.049	-90.060	1.00	41.77	B	C
ATOM	11862	CB	SER	B	147	34.767	-39.519	-90.218	1.00	43.69	B	C
ATOM	11865	OG	SER	B	147	33.446	-39.012	-90.142	1.00	43.39	B	O
ATOM	11867	C	SER	B	147	33.568	-41.601	-89.317	1.00	43.56	B	C
ATOM	11868	O	SER	B	147	32.815	-42.394	-89.901	1.00	42.52	B	O
ATOM	11870	N	HIS	B	148	33.334	-41.210	-88.066	1.00	44.75	B	N
ATOM	11871	CA	HIS	B	148	32.315	-41.909	-87.264	1.00	49.26	B	C
ATOM	11873	CB	HIS	B	148	32.634	-41.872	-85.758	1.00	51.25	B	C
ATOM	11876	CG	HIS	B	148	31.931	-40.790	-84.991	1.00	52.87	B	C
ATOM	11877	ND1	HIS	B	148	32.541	-39.601	-84.651	1.00	51.31	B	N
ATOM	11879	CE1	HIS	B	148	31.694	-38.861	-83.957	1.00	53.25	B	C
ATOM	11881	NE2	HIS	B	148	30.561	-39.528	-83.826	1.00	52.81	B	N
ATOM	11883	CD2	HIS	B	148	30.686	-40.743	-84.456	1.00	53.25	B	C
ATOM	11885	C	HIS	B	148	30.859	-41.494	-87.539	1.00	55.00	B	C
ATOM	11886	O	HIS	B	148	29.949	-42.323	-87.386	1.00	56.71	B	O
ATOM	11888	N	ALA	B	149	30.631	-40.230	-87.911	1.00	56.32	B	N
ATOM	11889	CA	ALA	B	149	29.295	-39.782	-88.339	1.00	56.03	B	C
ATOM	11891	CB	ALA	B	149	29.225	-38.259	-88.442	1.00	58.52	B	C
ATOM	11895	C	ALA	B	149	29.047	-40.441	-89.689	1.00	56.29	B	C
ATOM	11896	O	ALA	B	149	27.959	-40.947	-89.964	1.00	59.70	B	O
ATOM	11898	N	GLY	B	150	30.077	-40.399	-90.527	1.00	54.27	B	N
ATOM	11899	CA	GLY	B	150	30.397	-41.517	-91.400	1.00	52.28	B	C
ATOM	11902	C	GLY	B	150	29.803	-41.613	-92.779	1.00	49.92	B	C

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ATOM	11903	O	GLY	B	150	28.659	-42.041	-92.938	1.00	53.45	B O
ATOM	11905	N	ARG	B	151	30.619	-41.264	-93.771	1.00	47.78	B N
ATOM	11906	CA	ARG	B	151	30.311	-41.498	-95.179	1.00	50.13	B C
ATOM	11908	CB	ARG	B	151	30.808	-40.298	-96.009	1.00	50.96	B C
ATOM	11911	CG	ARG	B	151	31.381	-40.595	-97.407	1.00	49.67	B C
ATOM	11914	CD	ARG	B	151	32.576	-39.689	-97.676	1.00	52.44	B C
ATOM	11917	NE	ARG	B	151	32.994	-39.687	-99.079	1.00	52.08	B N
ATOM	11919	CZ	ARG	B	151	34.252	-39.772	-99.519	1.00	54.56	B C
ATOM	11920	NH1	ARG	B	151	35.283	-39.873	-98.684	1.00	56.41	B N
ATOM	11923	NH2	ARG	B	151	34.489	-39.743	-100.827	1.00	55.57	B N
ATOM	11926	C	ARG	B	151	30.972	-42.811	-95.631	1.00	47.73	B C
ATOM	11927	O	ARG	B	151	32.181	-42.976	-95.480	1.00	44.04	B O
ATOM	11929	N	ARG	B	152	30.174	-43.736	-96.175	1.00	49.35	B N
ATOM	11930	CA	ARG	B	152	30.678	-44.996	-96.760	1.00	48.01	B C
ATOM	11932	CB	ARG	B	152	29.527	-45.995	-96.963	1.00	54.94	B C
ATOM	11935	CG	ARG	B	152	28.912	-46.567	-95.677	1.00	59.29	B C
ATOM	11938	CD	ARG	B	152	29.523	-47.943	-95.296	1.00	63.53	B C
ATOM	11941	NE	ARG	B	152	28.917	-48.530	-94.087	1.00	63.81	B N
ATOM	11943	CZ	ARG	B	152	29.251	-49.708	-93.555	1.00	63.55	B C
ATOM	11944	NH1	ARG	B	152	30.198	-50.456	-94.116	1.00	65.67	B N
ATOM	11947	NH2	ARG	B	152	28.634	-50.142	-92.458	1.00	63.17	B N
ATOM	11950	C	ARG	B	152	31.324	-44.717	-98.118	1.00	43.24	B C
ATOM	11951	O	ARG	B	152	30.646	-44.214	-99.008	1.00	44.71	B O
ATOM	11953	N	PRO	B	153	32.625	-45.037	-98.294	1.00	38.63	B N
ATOM	11954	CA	PRO	B	153	33.263	-44.787	-99.592	1.00	39.93	B C
ATOM	11956	CB	PRO	B	153	34.747	-44.648	-99.235	1.00	35.61	B C
ATOM	11959	CG	PRO	B	153	34.917	-45.520	-98.042	1.00	38.02	B C
ATOM	11962	CD	PRO	B	153	33.581	-45.599	-97.325	1.00	38.62	B C
ATOM	11965	C	PRO	B	153	33.079	-45.906	-100.620	1.00	43.13	B C
ATOM	11966	O	PRO	B	153	32.858	-47.070	-100.264	1.00	44.56	B O
ATOM	11967	N	ASP	B	154	33.193	-45.530	-101.891	1.00	41.28	B N
ATOM	11968	CA	ASP	B	154	33.048	-46.460	-102.989	1.00	40.63	B C
ATOM	11970	CB	ASP	B	154	32.655	-45.723	-104.270	1.00	39.03	B C
ATOM	11973	CG	ASP	B	154	32.139	-46.660	-105.326	1.00	37.49	B C
ATOM	11974	OD1	ASP	B	154	31.084	-47.279	-105.064	1.00	35.40	B O
ATOM	11975	OD2	ASP	B	154	32.794	-46.789	-106.390	1.00	36.37	B O
ATOM	11976	C	ASP	B	154	34.348	-47.220	-103.226	1.00	39.41	B C
ATOM	11977	O	ASP	B	154	34.325	-48.436	-103.395	1.00	40.01	B O
ATOM	11979	N	ARG	B	155	35.471	-46.501	-103.246	1.00	40.14	B N
ATOM	11980	CA	ARG	B	155	36.781	-47.121	-103.488	1.00	39.29	B C
ATOM	11982	CB	ARG	B	155	37.623	-46.398	-104.562	1.00	41.67	B C
ATOM	11985	CG	ARG	B	155	37.232	-44.963	-104.934	1.00	45.16	B C
ATOM	11988	CD	ARG	B	155	37.405	-44.699	-106.437	1.00	44.03	B C
ATOM	11991	NE	ARG	B	155	37.971	-43.378	-106.697	1.00	47.23	B N
ATOM	11993	CZ	ARG	B	155	37.330	-42.218	-106.543	1.00	47.79	B C
ATOM	11994	NH1	ARG	B	155	36.060	-42.178	-106.132	1.00	46.07	B N
ATOM	11997	NH2	ARG	B	155	37.972	-41.081	-106.808	1.00	47.12	B N
ATOM	12000	C	ARG	B	155	37.566	-47.332	-102.193	1.00	38.26	B C
ATOM	12001	O	ARG	B	155	37.285	-46.721	-101.156	1.00	36.67	B O
ATOM	12003	N	LEU	B	156	38.534	-48.239	-102.257	1.00	35.66	B N
ATOM	12004	CA	LEU	B	156	39.175	-48.737	-101.045	1.00	34.73	B C
ATOM	12006	CB	LEU	B	156	39.864	-50.073	-101.325	1.00	32.14	B C
ATOM	12009	CG	LEU	B	156	40.467	-50.836	-100.140	1.00	26.36	B C
ATOM	12011	CD1	LEU	B	156	39.442	-51.728	-99.469	1.00	17.99	B C
ATOM	12015	CD2	LEU	B	156	41.650	-51.649	-100.636	1.00	26.90	B C
ATOM	12019	C	LEU	B	156	40.173	-47.725	-100.483	1.00	34.63	B C
ATOM	12020	O	LEU	B	156	41.003	-47.174	-101.219	1.00	30.74	B O
ATOM	12022	N	GLN	B	157	40.080	-47.509	-99.171	1.00	36.08	B N
ATOM	12023	CA	GLN	B	157	40.979	-46.615	-98.437	1.00	34.90	B C
ATOM	12025	CB	GLN	B	157	40.168	-45.775	-97.448	1.00	35.63	B C
ATOM	12028	CG	GLN	B	157	38.941	-45.075	-98.050	1.00	35.50	B C
ATOM	12031	CD	GLN	B	157	39.305	-44.060	-99.118	1.00	38.58	B C
ATOM	12032	OE1	GLN	B	157	40.058	-43.118	-98.868	1.00	40.61	B O
ATOM	12033	NE2	GLN	B	157	38.761	-44.243	-100.314	1.00	36.91	B N
ATOM	12036	C	GLN	B	157	42.045	-47.417	-97.675	1.00	34.47	B C
ATOM	12037	O	GLN	B	157	41.819	-48.572	-97.325	1.00	33.08	B O
ATOM	12039	N	HIS	B	158	43.201	-46.794	-97.429	1.00	36.49	B N
ATOM	12040	CA	HIS	B	158	44.249	-47.359	-96.562	1.00	32.94	B C

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ATOM	12042	CB	HIS	B	158	45.387	-47.963	-97.397	1.00	37.16	B	C
ATOM	12045	CG	HIS	B	158	46.402	-46.968	-97.876	1.00	40.13	B	C
ATOM	12046	ND1	HIS	B	158	46.132	-46.037	-98.859	1.00	43.82	B	N
ATOM	12048	CE1	HIS	B	158	47.216	-45.317	-99.092	1.00	45.85	B	C
ATOM	12050	NE2	HIS	B	158	48.181	-45.748	-98.298	1.00	46.63	B	N
ATOM	12052	CD2	HIS	B	158	47.701	-46.786	-97.535	1.00	41.53	B	C
ATOM	12054	C	HIS	B	158	44.810	-46.313	-95.593	1.00	30.83	B	C
ATOM	12055	O	HIS	B	158	44.766	-45.113	-95.864	1.00	30.21	B	O
ATOM	12057	N	VAL	B	159	45.315	-46.775	-94.451	1.00	28.83	B	N
ATOM	12058	CA	VAL	B	159	46.049	-45.909	-93.528	1.00	26.54	B	C
ATOM	12060	CB	VAL	B	159	45.093	-45.257	-92.522	1.00	26.57	B	C
ATOM	12062	CG1	VAL	B	159	44.635	-46.274	-91.487	1.00	27.69	B	C
ATOM	12066	CG2	VAL	B	159	45.746	-44.038	-91.881	1.00	24.34	B	C
ATOM	12070	C	VAL	B	159	47.180	-46.679	-92.830	1.00	26.07	B	C
ATOM	12071	O	VAL	B	159	47.078	-47.891	-92.628	1.00	28.36	B	O
ATOM	12073	N	LEU	B	160	48.283	-45.986	-92.536	1.00	24.54	B	N
ATOM	12074	CA	LEU	B	160	49.342	-46.517	-91.679	1.00	24.67	B	C
ATOM	12076	CB	LEU	B	160	50.710	-45.956	-92.071	1.00	27.75	B	C
ATOM	12079	CG	LEU	B	160	51.447	-46.636	-93.221	1.00	27.59	B	C
ATOM	12081	CD1	LEU	B	160	51.907	-48.043	-92.822	1.00	25.42	B	C
ATOM	12085	CD2	LEU	B	160	50.567	-46.679	-94.470	1.00	33.94	B	C
ATOM	12089	C	LEU	B	160	49.038	-46.158	-90.219	1.00	21.89	B	C
ATOM	12090	O	LEU	B	160	48.829	-44.997	-89.906	1.00	26.59	B	O
ATOM	12092	N	LEU	B	161	49.008	-47.162	-89.346	1.00	23.53	B	N
ATOM	12093	CA	LEU	B	161	48.791	-46.973	-87.911	1.00	25.23	B	C
ATOM	12095	CB	LEU	B	161	47.552	-47.743	-87.450	1.00	23.78	B	C
ATOM	12098	CG	LEU	B	161	46.246	-47.365	-88.125	1.00	24.72	B	C
ATOM	12100	CD1	LEU	B	161	45.036	-47.866	-87.322	1.00	26.57	B	C
ATOM	12104	CD2	LEU	B	161	46.208	-45.877	-88.273	1.00	23.48	B	C
ATOM	12108	C	LEU	B	161	49.991	-47.504	-87.155	1.00	22.81	B	C
ATOM	12109	O	LEU	B	161	50.573	-48.487	-87.566	1.00	25.80	B	O
ATOM	12111	N	PRO	B	162	50.374	-46.848	-86.050	1.00	22.63	B	N
ATOM	12112	CA	PRO	B	162	51.381	-47.438	-85.186	1.00	20.52	B	C
ATOM	12114	CB	PRO	B	162	51.980	-46.229	-84.490	1.00	22.63	B	C
ATOM	12117	CG	PRO	B	162	50.854	-45.248	-84.426	1.00	22.79	B	C
ATOM	12120	CD	PRO	B	162	49.945	-45.523	-85.574	1.00	22.15	B	C
ATOM	12123	C	PRO	B	162	50.758	-48.403	-84.183	1.00	16.88	B	C
ATOM	12124	O	PRO	B	162	49.707	-48.113	-83.622	1.00	19.29	B	O
ATOM	12125	N	VAL	B	163	51.393	-49.551	-83.975	1.00	16.91	B	N
ATOM	12126	CA	VAL	B	163	50.907	-50.488	-82.974	1.00	19.29	B	C
ATOM	12128	CB	VAL	B	163	51.605	-51.841	-83.073	1.00	18.42	B	C
ATOM	12130	CG1	VAL	B	163	51.273	-52.731	-81.885	1.00	18.20	B	C
ATOM	12134	CG2	VAL	B	163	51.232	-52.528	-84.391	1.00	24.14	B	C
ATOM	12138	C	VAL	B	163	51.076	-49.868	-81.572	1.00	16.32	B	C
ATOM	12139	O	VAL	B	163	52.063	-49.218	-81.278	1.00	18.15	B	O
ATOM	12141	N	LEU	B	164	50.073	-50.066	-80.740	1.00	18.44	B	N
ATOM	12142	CA	LEU	B	164	50.048	-49.563	-79.374	1.00	18.92	B	C
ATOM	12144	CB	LEU	B	164	48.727	-48.852	-79.113	1.00	19.12	B	C
ATOM	12147	CG	LEU	B	164	48.601	-48.201	-77.735	1.00	21.31	B	C
ATOM	12149	CD1	LEU	B	164	49.470	-46.942	-77.734	1.00	20.79	B	C
ATOM	12153	CD2	LEU	B	164	47.154	-47.885	-77.389	1.00	21.95	B	C
ATOM	12157	C	LEU	B	164	50.177	-50.763	-78.448	1.00	20.38	B	C
ATOM	12158	O	LEU	B	164	49.498	-51.770	-78.633	1.00	25.37	B	O
ATOM	12160	N	ASP	B	165	51.050	-50.659	-77.451	1.00	21.20	B	N
ATOM	12161	CA	ASP	B	165	51.314	-51.786	-76.558	1.00	17.79	B	C
ATOM	12163	CB	ASP	B	165	52.502	-51.489	-75.631	1.00	17.93	B	C
ATOM	12166	CG	ASP	B	165	52.165	-50.507	-74.533	1.00	23.72	B	C
ATOM	12167	OD1	ASP	B	165	52.180	-49.270	-74.802	1.00	21.53	B	O
ATOM	12168	OD2	ASP	B	165	51.911	-50.980	-73.397	1.00	26.78	B	O
ATOM	12169	C	ASP	B	165	50.077	-52.186	-75.742	1.00	17.72	B	C
ATOM	12170	O	ASP	B	165	49.190	-51.360	-75.488	1.00	23.00	B	O
ATOM	12172	N	ARG	B	166	50.077	-53.427	-75.273	1.00	18.47	B	N
ATOM	12173	CA	ARG	B	166	48.905	-54.035	-74.649	1.00	21.81	B	C
ATOM	12175	CB	ARG	B	166	49.093	-55.552	-74.539	1.00	23.30	B	C
ATOM	12178	CG	ARG	B	166	47.814	-56.307	-74.170	1.00	21.17	B	C
ATOM	12181	CD	ARG	B	166	47.975	-57.833	-74.337	1.00	19.88	B	C
ATOM	12184	NE	ARG	B	166	48.142	-58.193	-75.738	1.00	20.21	B	N
ATOM	12186	CZ	ARG	B	166	49.283	-58.588	-76.293	1.00	18.27	B	C

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ATOM	12187	NH1	ARG	B	166	50.391	-58.711	-75.564	1.00	15.42	B	N
ATOM	12190	NH2	ARG	B	166	49.315	-58.873	-77.592	1.00	22.32	B	N
ATOM	12193	C	ARG	B	166	48.599	-53.469	-73.278	1.00	23.19	B	C
ATOM	12194	O	ARG	B	166	47.424	-53.413	-72.882	1.00	21.62	B	O
ATOM	12196	N	ALA	B	167	49.635	-53.049	-72.554	1.00	24.76	B	N
ATOM	12197	CA	ALA	B	167	49.430	-52.494	-71.204	1.00	23.05	B	C
ATOM	12199	CB	ALA	B	167	50.733	-52.511	-70.403	1.00	20.45	B	C
ATOM	12203	C	ALA	B	167	48.809	-51.098	-71.255	1.00	17.95	B	C
ATOM	12204	O	ALA	B	167	47.945	-50.778	-70.442	1.00	22.75	B	O
ATOM	12206	N	THR	B	168	49.235	-50.271	-72.212	1.00	22.33	B	N
ATOM	12207	CA	THR	B	168	48.580	-48.977	-72.463	1.00	21.21	B	C
ATOM	12209	CB	THR	B	168	49.291	-48.134	-73.567	1.00	20.43	B	C
ATOM	12211	OG1	THR	B	168	50.653	-47.940	-73.206	1.00	19.10	B	O
ATOM	12213	CG2	THR	B	168	48.618	-46.758	-73.743	1.00	21.56	B	C
ATOM	12217	C	THR	B	168	47.156	-49.235	-72.888	1.00	24.35	B	C
ATOM	12218	O	THR	B	168	46.228	-48.652	-72.346	1.00	23.26	B	O
ATOM	12220	N	CYS	B	169	46.988	-50.133	-73.858	1.00	28.46	B	N
ATOM	12221	CA	CYS	B	169	45.666	-50.477	-74.337	1.00	24.45	B	C
ATOM	12223	CB	CYS	B	169	45.731	-51.501	-75.456	1.00	26.91	B	C
ATOM	12226	SG	CYS	B	169	44.380	-51.286	-76.564	1.00	32.16	B	S
ATOM	12228	C	CYS	B	169	44.735	-50.985	-73.245	1.00	18.16	B	C
ATOM	12229	O	CYS	B	169	43.534	-50.754	-73.300	1.00	27.91	B	O
ATOM	12231	N	ASN	B	170	45.287	-51.656	-72.245	1.00	24.91	B	N
ATOM	12232	CA	ASN	B	170	44.491	-52.114	-71.100	1.00	23.60	B	C
ATOM	12234	CB	ASN	B	170	45.022	-53.458	-70.602	1.00	22.63	B	C
ATOM	12237	CG	ASN	B	170	44.463	-54.601	-71.377	1.00	21.06	B	C
ATOM	12238	OD1	ASN	B	170	43.301	-54.565	-71.770	1.00	21.33	B	O
ATOM	12239	ND2	ASN	B	170	45.287	-55.618	-71.639	1.00	18.34	B	N
ATOM	12242	C	ASN	B	170	44.327	-51.167	-69.923	1.00	25.41	B	C
ATOM	12243	O	ASN	B	170	43.759	-51.558	-68.902	1.00	27.31	B	O
ATOM	12245	N	ARG	B	171	44.775	-49.917	-70.040	1.00	27.23	B	N
ATOM	12246	CA	ARG	B	171	44.409	-48.938	-69.014	1.00	24.14	B	C
ATOM	12248	CB	ARG	B	171	45.077	-47.602	-69.243	1.00	25.06	B	C
ATOM	12251	CG	ARG	B	171	46.561	-47.644	-69.196	1.00	26.07	B	C
ATOM	12254	CD	ARG	B	171	47.132	-46.326	-68.647	1.00	33.56	B	C
ATOM	12257	NE	ARG	B	171	48.183	-45.876	-69.544	1.00	38.34	B	N
ATOM	12259	CZ	ARG	B	171	48.044	-44.923	-70.451	1.00	38.14	B	C
ATOM	12260	NH1	ARG	B	171	49.065	-44.604	-71.227	1.00	39.48	B	N
ATOM	12263	NH2	ARG	B	171	46.910	-44.268	-70.555	1.00	38.60	B	N
ATOM	12266	C	ARG	B	171	42.908	-48.711	-68.995	1.00	22.38	B	C
ATOM	12267	O	ARG	B	171	42.233	-48.847	-70.027	1.00	18.23	B	O
ATOM	12269	N	ARG	B	172	42.386	-48.323	-67.829	1.00	17.09	B	N
ATOM	12270	CA	ARG	B	172	40.950	-48.174	-67.652	1.00	16.72	B	C
ATOM	12272	CB	ARG	B	172	40.620	-47.768	-66.186	1.00	13.48	B	C
ATOM	12275	CG	ARG	B	172	41.042	-46.385	-65.795	1.00	15.41	B	C
ATOM	12278	CD	ARG	B	172	40.744	-46.151	-64.309	1.00	22.79	B	C
ATOM	12281	NE	ARG	B	172	41.772	-46.781	-63.537	1.00	18.11	B	N
ATOM	12283	CZ	ARG	B	172	41.808	-46.893	-62.220	1.00	21.10	B	C
ATOM	12284	NH1	ARG	B	172	40.811	-46.488	-61.457	1.00	23.33	B	N
ATOM	12287	NH2	ARG	B	172	42.855	-47.485	-61.676	1.00	18.99	B	N
ATOM	12290	C	ARG	B	172	40.326	-47.160	-68.601	1.00	21.22	B	C
ATOM	12291	O	ARG	B	172	39.203	-47.346	-69.045	1.00	31.84	B	O
ATOM	12293	N	THR	B	173	41.039	-46.065	-68.865	1.00	27.38	B	N
ATOM	12294	CA	THR	B	173	40.655	-45.062	-69.865	1.00	25.19	B	C
ATOM	12296	CB	THR	B	173	41.852	-44.099	-70.131	1.00	25.98	B	C
ATOM	12298	OG1	THR	B	173	42.487	-43.778	-68.887	1.00	21.76	B	O
ATOM	12300	CG2	THR	B	173	41.415	-42.811	-70.859	1.00	23.23	B	C
ATOM	12304	C	THR	B	173	40.338	-45.726	-71.197	1.00	28.05	B	C
ATOM	12305	O	THR	B	173	39.479	-45.268	-71.961	1.00	32.99	B	O
ATOM	12307	N	HIS	B	174	41.077	-46.785	-71.480	1.00	24.13	B	N
ATOM	12308	CA	HIS	B	174	41.041	-47.454	-72.782	1.00	22.58	B	C
ATOM	12310	CB	HIS	B	174	42.477	-47.697	-73.221	1.00	19.66	B	C
ATOM	12313	CG	HIS	B	174	43.280	-46.437	-73.315	1.00	21.51	B	C
ATOM	12314	ND1	HIS	B	174	44.624	-46.379	-73.023	1.00	25.60	B	N
ATOM	12316	CE1	HIS	B	174	45.056	-45.137	-73.184	1.00	27.46	B	C
ATOM	12318	NE2	HIS	B	174	44.036	-44.386	-73.560	1.00	28.22	B	N
ATOM	12320	CD2	HIS	B	174	42.914	-45.174	-73.647	1.00	25.46	B	C
ATOM	12322	C	HIS	B	174	40.170	-48.726	-72.767	1.00	20.04	B	C

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ATOM	12323	O	HIS	B	174	38.981	-48.626	-72.511	1.00	31.31	B	O
ATOM	12325	N	HIS	B	175	40.736	-49.904	-73.024	1.00	25.30	B	N
ATOM	12326	CA	HIS	B	175	39.938	-51.140	-73.070	1.00	22.04	B	C
ATOM	12328	CB	HIS	B	175	40.278	-51.949	-74.300	1.00	22.74	B	C
ATOM	12331	CG	HIS	B	175	40.013	-51.212	-75.570	1.00	21.64	B	C
ATOM	12332	ND1	HIS	B	175	38.822	-50.568	-75.813	1.00	17.46	B	N
ATOM	12334	CE1	HIS	B	175	38.872	-49.995	-76.999	1.00	23.38	B	C
ATOM	12336	NE2	HIS	B	175	40.056	-50.238	-77.534	1.00	25.28	B	N
ATOM	12338	CD2	HIS	B	175	40.790	-50.998	-76.659	1.00	23.73	B	C
ATOM	12340	C	HIS	B	175	40.025	-51.989	-71.816	1.00	24.97	B	C
ATOM	12341	O	HIS	B	175	39.580	-53.145	-71.824	1.00	20.13	B	O
ATOM	12343	N	ASP	B	176	40.622	-51.411	-70.763	1.00	26.50	B	N
ATOM	12344	CA	ASP	B	176	40.388	-51.789	-69.363	1.00	23.45	B	C
ATOM	12346	CB	ASP	B	176	39.004	-51.262	-68.952	1.00	25.86	B	C
ATOM	12349	CG	ASP	B	176	38.836	-51.121	-67.440	1.00	25.83	B	C
ATOM	12350	OD1	ASP	B	176	39.826	-51.257	-66.687	1.00	23.55	B	O
ATOM	12351	OD2	ASP	B	176	37.714	-50.820	-67.002	1.00	27.35	B	O
ATOM	12352	C	ASP	B	176	40.492	-53.293	-69.057	1.00	29.03	B	C
ATOM	12353	O	ASP	B	176	39.699	-53.813	-68.283	1.00	27.39	B	O
ATOM	12355	N	GLY	B	177	41.460	-53.988	-69.661	1.00	24.47	B	N
ATOM	12356	CA	GLY	B	177	41.682	-55.410	-69.374	1.00	26.75	B	C
ATOM	12359	C	GLY	B	177	41.184	-56.381	-70.429	1.00	30.00	B	C
ATOM	12360	O	GLY	B	177	41.541	-57.547	-70.419	1.00	31.57	B	O
ATOM	12362	N	ALA	B	178	40.360	-55.896	-71.347	1.00	32.65	B	N
ATOM	12363	CA	ALA	B	178	39.756	-56.736	-72.363	1.00	28.75	B	C
ATOM	12365	CB	ALA	B	178	38.616	-55.991	-73.037	1.00	28.68	B	C
ATOM	12369	C	ALA	B	178	40.744	-57.238	-73.409	1.00	25.30	B	C
ATOM	12370	O	ALA	B	178	40.424	-58.135	-74.170	1.00	29.04	B	O
ATOM	12372	N	ILE	B	179	41.944	-56.671	-73.438	1.00	25.89	B	N
ATOM	12373	CA	ILE	B	179	42.917	-56.989	-74.474	1.00	25.51	B	C
ATOM	12375	CB	ILE	B	179	43.754	-55.758	-74.874	1.00	24.88	B	C
ATOM	12377	CG1	ILE	B	179	42.851	-54.565	-75.194	1.00	16.41	B	C
ATOM	12380	CD1	ILE	B	179	41.709	-54.860	-76.195	1.00	19.54	B	C
ATOM	12384	CG2	ILE	B	179	44.628	-56.103	-76.034	1.00	13.47	B	C
ATOM	12388	C	ILE	B	179	43.853	-58.090	-74.020	1.00	23.13	B	C
ATOM	12389	O	ILE	B	179	44.753	-57.876	-73.203	1.00	25.10	B	O
ATOM	12391	N	THR	B	180	43.648	-59.273	-74.583	1.00	22.84	B	N
ATOM	12392	CA	THR	B	180	44.400	-60.448	-74.193	1.00	25.44	B	C
ATOM	12394	CB	THR	B	180	43.504	-61.712	-74.271	1.00	27.04	B	C
ATOM	12396	OG1	THR	B	180	43.033	-61.878	-75.603	1.00	24.83	B	O
ATOM	12398	CG2	THR	B	180	42.294	-61.572	-73.344	1.00	25.63	B	C
ATOM	12402	C	THR	B	180	45.618	-60.588	-75.108	1.00	24.43	B	C
ATOM	12403	O	THR	B	180	45.783	-59.820	-76.054	1.00	22.80	B	O
ATOM	12405	N	GLN	B	181	46.453	-61.584	-74.830	1.00	27.19	B	N
ATOM	12406	CA	GLN	B	181	47.626	-61.878	-75.655	1.00	27.49	B	C
ATOM	12408	CB	GLN	B	181	48.516	-62.904	-74.972	1.00	29.96	B	C
ATOM	12411	CG	GLN	B	181	49.174	-62.420	-73.716	1.00	32.90	B	C
ATOM	12414	CD	GLN	B	181	49.737	-63.566	-72.900	1.00	36.57	B	C
ATOM	12415	OE1	GLN	B	181	48.989	-64.415	-72.387	1.00	39.84	B	O
ATOM	12416	NE2	GLN	B	181	51.058	-63.608	-72.784	1.00	36.06	B	N
ATOM	12419	C	GLN	B	181	47.271	-62.401	-77.037	1.00	24.29	B	C
ATOM	12420	O	GLN	B	181	48.156	-62.538	-77.886	1.00	18.67	B	O
ATOM	12422	N	ARG	B	182	45.985	-62.671	-77.264	1.00	25.40	B	N
ATOM	12423	CA	ARG	B	182	45.494	-63.100	-78.567	1.00	30.47	B	C
ATOM	12425	CB	ARG	B	182	44.379	-64.141	-78.387	1.00	35.17	B	C
ATOM	12428	CG	ARG	B	182	44.669	-65.173	-77.273	1.00	40.82	B	C
ATOM	12431	CD	ARG	B	182	43.646	-66.313	-77.211	1.00	41.00	B	C
ATOM	12434	NE	ARG	B	182	43.829	-67.276	-78.294	1.00	43.02	B	N
ATOM	12436	CZ	ARG	B	182	43.155	-68.422	-78.415	1.00	46.17	B	C
ATOM	12437	NH1	ARG	B	182	42.226	-68.767	-77.526	1.00	47.48	B	N
ATOM	12440	NH2	ARG	B	182	43.409	-69.234	-79.443	1.00	44.75	B	N
ATOM	12443	C	ARG	B	182	45.008	-61.886	-79.376	1.00	25.77	B	C
ATOM	12444	O	ARG	B	182	44.527	-62.024	-80.503	1.00	23.74	B	O
ATOM	12446	N	MET	B	183	45.162	-60.697	-78.795	1.00	26.60	B	N
ATOM	12447	CA	MET	B	183	44.725	-59.449	-79.395	1.00	23.37	B	C
ATOM	12449	CB	MET	B	183	43.602	-58.856	-78.560	1.00	23.04	B	C
ATOM	12452	CG	MET	B	183	42.279	-59.552	-78.753	1.00	28.87	B	C
ATOM	12455	SD	MET	B	183	41.228	-59.441	-77.311	1.00	27.27	B	S

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ATOM	12456	CE	MET	B	183	40.440	-57.869	-77.602	1.00	26.41	B	C
ATOM	12460	C	MET	B	183	45.879	-58.460	-79.423	1.00	23.18	B	C
ATOM	12461	O	MET	B	183	46.832	-58.628	-78.684	1.00	18.39	B	O
ATOM	12463	N	MET	B	184	45.766	-57.436	-80.274	1.00	22.51	B	N
ATOM	12464	CA	MET	B	184	46.714	-56.328	-80.343	1.00	19.16	B	C
ATOM	12466	CB	MET	B	184	47.739	-56.542	-81.481	1.00	12.38	B	C
ATOM	12469	CG	MET	B	184	47.161	-56.685	-82.833	1.00	15.65	B	C
ATOM	12472	SD	MET	B	184	48.408	-57.002	-84.091	1.00	20.88	B	S
ATOM	12473	CE	MET	B	184	49.372	-55.487	-83.928	1.00	24.15	B	C
ATOM	12477	C	MET	B	184	45.938	-54.997	-80.487	1.00	26.16	B	C
ATOM	12478	O	MET	B	184	44.707	-54.989	-80.598	1.00	27.39	B	O
ATOM	12480	N	CYS	B	185	46.656	-53.873	-80.426	1.00	31.68	B	N
ATOM	12481	CA	CYS	B	185	46.046	-52.532	-80.504	1.00	24.79	B	C
ATOM	12483	CB	CYS	B	185	45.985	-51.881	-79.118	1.00	33.38	B	C
ATOM	12486	SG	CYS	B	185	44.751	-52.627	-78.038	1.00	31.13	B	S
ATOM	12488	C	CYS	B	185	46.819	-51.642	-81.452	1.00	25.25	B	C
ATOM	12489	O	CYS	B	185	48.001	-51.875	-81.700	1.00	23.30	B	O
ATOM	12491	N	ALA	B	186	46.140	-50.635	-81.996	1.00	25.26	B	N
ATOM	12492	CA	ALA	B	186	46.785	-49.577	-82.764	1.00	25.79	B	C
ATOM	12494	CB	ALA	B	186	46.569	-49.770	-84.229	1.00	19.31	B	C
ATOM	12498	C	ALA	B	186	46.226	-48.238	-82.308	1.00	27.30	B	C
ATOM	12499	O	ALA	B	186	45.150	-48.173	-81.724	1.00	23.06	B	O
ATOM	12501	N	GLU	B	187	46.962	-47.164	-82.564	1.00	32.54	B	N
ATOM	12502	CA	GLU	B	187	46.491	-45.822	-82.177	1.00	34.16	B	C
ATOM	12504	CB	GLU	B	187	47.606	-44.785	-82.353	1.00	39.81	B	C
ATOM	12507	CG	GLU	B	187	48.503	-44.657	-81.108	1.00	41.73	B	C
ATOM	12510	CD	GLU	B	187	49.840	-43.993	-81.396	1.00	41.27	B	C
ATOM	12511	OE1	GLU	B	187	49.857	-42.937	-82.072	1.00	48.18	B	O
ATOM	12512	OE2	GLU	B	187	50.870	-44.534	-80.950	1.00	35.43	B	O
ATOM	12513	C	GLU	B	187	45.226	-45.420	-82.936	1.00	31.85	B	C
ATOM	12514	O	GLU	B	187	45.046	-45.808	-84.087	1.00	23.94	B	O
ATOM	12516	N	SER	B	188	44.339	-44.672	-82.269	1.00	29.13	B	N
ATOM	12517	CA	SER	B	188	43.047	-44.290	-82.854	1.00	29.24	B	C
ATOM	12519	CB	SER	B	188	41.938	-44.853	-81.992	1.00	29.49	B	C
ATOM	12522	OG	SER	B	188	42.022	-44.288	-80.710	1.00	23.72	B	O
ATOM	12524	C	SER	B	188	42.797	-42.779	-83.035	1.00	30.41	B	C
ATOM	12525	O	SER	B	188	41.722	-42.398	-83.487	1.00	35.94	B	O
ATOM	12527	N	ASN	B	189	43.756	-41.923	-82.688	1.00	33.96	B	N
ATOM	12528	CA	ASN	B	189	43.598	-40.471	-82.861	1.00	36.25	B	C
ATOM	12530	CB	ASN	B	189	44.382	-39.732	-81.769	1.00	41.76	B	C
ATOM	12533	CG	ASN	B	189	43.822	-38.329	-81.464	1.00	42.76	B	C
ATOM	12534	OD1	ASN	B	189	42.711	-37.959	-81.874	1.00	44.05	B	O
ATOM	12535	ND2	ASN	B	189	44.596	-37.554	-80.717	1.00	48.51	B	N
ATOM	12538	C	ASN	B	189	44.081	-40.005	-84.235	1.00	37.18	B	C
ATOM	12539	O	ASN	B	189	45.198	-40.317	-84.630	1.00	28.62	B	O
ATOM	12541	N	ARG	B	190	43.258	-39.251	-84.960	1.00	43.34	B	N
ATOM	12542	CA	ARG	B	190	43.601	-38.801	-86.331	1.00	47.86	B	C
ATOM	12544	CB	ARG	B	190	45.051	-38.265	-86.452	1.00	56.87	B	C
ATOM	12547	CG	ARG	B	190	45.493	-37.165	-85.490	1.00	64.92	B	C
ATOM	12550	CD	ARG	B	190	44.799	-35.827	-85.777	1.00	68.56	B	C
ATOM	12553	NE	ARG	B	190	43.820	-35.469	-84.748	1.00	69.84	B	N
ATOM	12555	CZ	ARG	B	190	42.927	-34.484	-84.854	1.00	70.25	B	C
ATOM	12556	NH1	ARG	B	190	42.855	-33.730	-85.952	1.00	71.33	B	N
ATOM	12559	NH2	ARG	B	190	42.098	-34.248	-83.843	1.00	71.75	B	N
ATOM	12562	C	ARG	B	190	43.479	-39.907	-87.383	1.00	49.60	B	C
ATOM	12563	O	ARG	B	190	43.286	-39.615	-88.562	1.00	52.36	B	O
ATOM	12565	N	ARG	B	191	43.577	-41.160	-86.943	1.00	46.89	B	N
ATOM	12566	CA	ARG	B	191	43.977	-42.284	-87.778	1.00	41.72	B	C
ATOM	12568	CB	ARG	B	191	45.508	-42.376	-87.720	1.00	46.85	B	C
ATOM	12571	CG	ARG	B	191	46.241	-42.410	-89.043	1.00	50.50	B	C
ATOM	12574	CD	ARG	B	191	46.045	-41.137	-89.868	1.00	55.03	B	C
ATOM	12577	NE	ARG	B	191	46.781	-39.965	-89.370	1.00	58.53	B	N
ATOM	12579	CZ	ARG	B	191	47.947	-39.512	-89.852	1.00	60.20	B	C
ATOM	12580	NH1	ARG	B	191	48.566	-40.131	-90.859	1.00	58.75	B	N
ATOM	12583	NH2	ARG	B	191	48.505	-38.422	-89.318	1.00	58.28	B	N
ATOM	12586	C	ARG	B	191	43.340	-43.554	-87.170	1.00	38.78	B	C
ATOM	12587	O	ARG	B	191	43.591	-43.866	-86.003	1.00	38.01	B	O
ATOM	12589	N	ASP	B	192	42.513	-44.281	-87.919	1.00	31.46	B	N

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ATOM	12590	CA	ASP	B	192	41.752	-45.393	-87.306	1.00	32.51	B	C
ATOM	12592	CB	ASP	B	192	40.675	-44.828	-86.348	1.00	21.27	B	C
ATOM	12595	CG	ASP	B	192	40.324	-45.757	-85.173	1.00	25.16	B	C
ATOM	12596	OD1	ASP	B	192	40.851	-46.876	-85.048	1.00	23.93	B	O
ATOM	12597	OD2	ASP	B	192	39.480	-45.347	-84.338	1.00	22.08	B	O
ATOM	12598	C	ASP	B	192	41.075	-46.278	-88.343	1.00	29.77	B	C
ATOM	12599	O	ASP	B	192	41.008	-45.935	-89.514	1.00	28.89	B	O
ATOM	12601	N	SER	B	193	40.598	-47.429	-87.878	1.00	31.41	B	N
ATOM	12602	CA	SER	B	193	39.627	-48.230	-88.608	1.00	30.60	B	C
ATOM	12604	CB	SER	B	193	39.980	-49.731	-88.546	1.00	24.61	B	C
ATOM	12607	OG	SER	B	193	40.219	-50.205	-87.232	1.00	23.64	B	O
ATOM	12609	C	SER	B	193	38.225	-47.957	-88.054	1.00	28.28	B	C
ATOM	12610	O	SER	B	193	38.060	-47.636	-86.889	1.00	26.62	B	O
ATOM	12612	N	CYS	B	194	37.211	-48.059	-88.897	1.00	33.44	B	N
ATOM	12613	CA	CYS	B	194	35.860	-47.676	-88.491	1.00	34.54	B	C
ATOM	12615	CB	CYS	B	194	35.483	-46.333	-89.128	1.00	42.51	B	C
ATOM	12618	SG	CYS	B	194	36.648	-44.948	-88.878	1.00	43.06	B	S
ATOM	12620	C	CYS	B	194	34.835	-48.731	-88.889	1.00	34.89	B	C
ATOM	12621	O	CYS	B	194	35.167	-49.707	-89.584	1.00	31.54	B	O
ATOM	12623	N	LYS	B	195	33.590	-48.527	-88.450	1.00	35.30	B	N
ATOM	12624	CA	LYS	B	195	32.478	-49.382	-88.852	1.00	36.48	B	C
ATOM	12626	CB	LYS	B	195	31.143	-48.702	-88.548	1.00	43.84	B	C
ATOM	12629	CG	LYS	B	195	29.908	-49.586	-88.764	1.00	45.58	B	C
ATOM	12632	CD	LYS	B	195	28.614	-48.822	-88.415	1.00	48.20	B	C
ATOM	12635	CE	LYS	B	195	27.345	-49.649	-88.697	1.00	49.81	B	C
ATOM	12638	NZ	LYS	B	195	26.137	-48.785	-88.920	1.00	50.73	B	N
ATOM	12642	C	LYS	B	195	32.601	-49.707	-90.341	1.00	36.37	B	C
ATOM	12643	O	LYS	B	195	32.814	-48.813	-91.167	1.00	38.14	B	O
ATOM	12645	N	GLY	B	196	32.527	-50.996	-90.669	1.00	34.77	B	N
ATOM	12646	CA	GLY	B	196	32.722	-51.474	-92.044	1.00	31.07	B	C
ATOM	12649	C	GLY	B	196	34.132	-51.928	-92.374	1.00	28.95	B	C
ATOM	12650	O	GLY	B	196	34.339	-52.607	-93.387	1.00	28.36	B	O
ATOM	12652	N	ASP	B	197	35.112	-51.563	-91.541	1.00	28.85	B	N
ATOM	12653	CA	ASP	B	197	36.484	-52.030	-91.727	1.00	30.11	B	C
ATOM	12655	CB	ASP	B	197	37.505	-50.986	-91.263	1.00	32.11	B	C
ATOM	12658	CG	ASP	B	197	37.480	-49.716	-92.106	1.00	32.64	B	C
ATOM	12659	OD1	ASP	B	197	37.596	-49.815	-93.347	1.00	25.98	B	O
ATOM	12660	OD2	ASP	B	197	37.354	-48.620	-91.514	1.00	28.14	B	O
ATOM	12661	C	ASP	B	197	36.720	-53.343	-90.986	1.00	27.89	B	C
ATOM	12662	O	ASP	B	197	37.725	-54.005	-91.230	1.00	23.25	B	O
ATOM	12664	N	SER	B	198	35.801	-53.705	-90.086	1.00	27.74	B	N
ATOM	12665	CA	SER	B	198	35.899	-54.941	-89.303	1.00	28.33	B	C
ATOM	12667	CB	SER	B	198	34.637	-55.164	-88.473	1.00	32.77	B	C
ATOM	12670	OG	SER	B	198	34.074	-53.940	-88.067	1.00	35.65	B	O
ATOM	12672	C	SER	B	198	36.066	-56.136	-90.217	1.00	34.26	B	C
ATOM	12673	O	SER	B	198	35.490	-56.189	-91.301	1.00	36.53	B	O
ATOM	12675	N	GLY	B	199	36.860	-57.097	-89.773	1.00	30.10	B	N
ATOM	12676	CA	GLY	B	199	37.126	-58.276	-90.551	1.00	25.02	B	C
ATOM	12679	C	GLY	B	199	38.278	-58.042	-91.501	1.00	26.51	B	C
ATOM	12680	O	GLY	B	199	38.868	-58.993	-92.011	1.00	25.55	B	O
ATOM	12682	N	GLY	B	200	38.609	-56.779	-91.744	1.00	21.40	B	N
ATOM	12683	CA	GLY	B	200	39.683	-56.459	-92.668	1.00	19.67	B	C
ATOM	12686	C	GLY	B	200	41.069	-56.686	-92.088	1.00	18.61	B	C
ATOM	12687	O	GLY	B	200	41.238	-56.963	-90.905	1.00	24.41	B	O
ATOM	12689	N	PRO	B	201	42.085	-56.557	-92.924	1.00	19.41	B	N
ATOM	12690	CA	PRO	B	201	43.452	-56.891	-92.550	1.00	20.21	B	C
ATOM	12692	CB	PRO	B	201	44.087	-57.196	-93.905	1.00	14.63	B	C
ATOM	12695	CG	PRO	B	201	43.389	-56.287	-94.840	1.00	16.23	B	C
ATOM	12698	CD	PRO	B	201	41.986	-56.123	-94.328	1.00	18.49	B	C
ATOM	12701	C	PRO	B	201	44.281	-55.802	-91.865	1.00	19.96	B	C
ATOM	12702	O	PRO	B	201	44.224	-54.626	-92.261	1.00	25.78	B	O
ATOM	12703	N	LEU	B	202	45.067	-56.209	-90.866	1.00	21.43	B	N
ATOM	12704	CA	LEU	B	202	46.146	-55.384	-90.322	1.00	21.51	B	C
ATOM	12706	CB	LEU	B	202	46.092	-55.315	-88.799	1.00	22.40	B	C
ATOM	12709	CG	LEU	B	202	47.095	-54.366	-88.132	1.00	26.16	B	C
ATOM	12711	CD1	LEU	B	202	46.977	-52.967	-88.727	1.00	30.54	B	C
ATOM	12715	CD2	LEU	B	202	46.884	-54.299	-86.618	1.00	22.05	B	C
ATOM	12719	C	LEU	B	202	47.428	-56.025	-90.780	1.00	19.80	B	C

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ATOM	12720	O	LEU	B	202	47.732	-57.166	-90.424	1.00	23.87	B	O
ATOM	12722	N	VAL	B	203	48.176	-55.304	-91.597	1.00	21.60	B	N
ATOM	12723	CA	VAL	B	203	49.307	-55.889	-92.299	1.00	23.05	B	C
ATOM	12725	CB	VAL	B	203	49.119	-55.799	-93.817	1.00	21.19	B	C
ATOM	12727	CG1	VAL	B	203	50.339	-56.388	-94.554	1.00	19.96	B	C
ATOM	12731	CG2	VAL	B	203	47.849	-56.540	-94.229	1.00	18.47	B	C
ATOM	12735	C	VAL	B	203	50.577	-55.182	-91.869	1.00	27.66	B	C
ATOM	12736	O	VAL	B	203	50.609	-53.958	-91.755	1.00	30.26	B	O
ATOM	12738	N	CYS	B	204	51.618	-55.961	-91.613	1.00	33.39	B	N
ATOM	12739	CA	CYS	B	204	52.807	-55.431	-90.984	1.00	32.24	B	C
ATOM	12741	CB	CYS	B	204	52.648	-55.525	-89.467	1.00	37.62	B	C
ATOM	12744	SG	CYS	B	204	53.062	-53.960	-88.775	1.00	48.12	B	S
ATOM	12746	C	CYS	B	204	54.071	-56.124	-91.457	1.00	34.61	B	C
ATOM	12747	O	CYS	B	204	54.273	-57.308	-91.209	1.00	40.52	B	O
ATOM	12749	N	GLY	B	205	54.911	-55.378	-92.169	1.00	33.44	B	N
ATOM	12750	CA	GLY	B	205	56.124	-55.926	-92.762	1.00	31.85	B	C
ATOM	12753	C	GLY	B	205	55.893	-56.808	-93.989	1.00	30.55	B	C
ATOM	12754	O	GLY	B	205	56.761	-57.600	-94.349	1.00	31.65	B	O
ATOM	12756	N	GLY	B	206	54.727	-56.664	-94.619	1.00	29.64	B	N
ATOM	12757	CA	GLY	B	206	54.300	-57.523	-95.719	1.00	28.20	B	C
ATOM	12760	C	GLY	B	206	53.526	-58.774	-95.314	1.00	27.32	B	C
ATOM	12761	O	GLY	B	206	53.221	-59.617	-96.171	1.00	29.21	B	O
ATOM	12763	N	VAL	B	207	53.195	-58.886	-94.027	1.00	21.74	B	N
ATOM	12764	CA	VAL	B	207	52.625	-60.095	-93.452	1.00	23.06	B	C
ATOM	12766	CB	VAL	B	207	53.608	-60.717	-92.416	1.00	28.00	B	C
ATOM	12768	CG1	VAL	B	207	52.990	-61.924	-91.712	1.00	27.18	B	C
ATOM	12772	CG2	VAL	B	207	54.913	-61.099	-93.073	1.00	26.98	B	C
ATOM	12776	C	VAL	B	207	51.339	-59.742	-92.729	1.00	24.52	B	C
ATOM	12777	O	VAL	B	207	51.279	-58.723	-92.050	1.00	27.17	B	O
ATOM	12779	N	LEU	B	208	50.307	-60.574	-92.855	1.00	21.49	B	N
ATOM	12780	CA	LEU	B	208	49.075	-60.344	-92.110	1.00	19.75	B	C
ATOM	12782	CB	LEU	B	208	47.915	-61.183	-92.660	1.00	19.46	B	C
ATOM	12785	CG	LEU	B	208	46.549	-60.993	-91.984	1.00	21.09	B	C
ATOM	12787	CD1	LEU	B	208	45.990	-59.594	-92.231	1.00	20.90	B	C
ATOM	12791	CD2	LEU	B	208	45.578	-62.058	-92.451	1.00	24.00	B	C
ATOM	12795	C	LEU	B	208	49.306	-60.672	-90.639	1.00	16.80	B	C
ATOM	12796	O	LEU	B	208	49.732	-61.779	-90.311	1.00	17.28	B	O
ATOM	12798	N	GLU	B	209	49.007	-59.716	-89.759	1.00	19.57	B	N
ATOM	12799	CA	GLU	B	209	49.160	-59.901	-88.307	1.00	18.30	B	C
ATOM	12801	CB	GLU	B	209	50.145	-58.858	-87.737	1.00	20.45	B	C
ATOM	12804	CG	GLU	B	209	51.604	-59.002	-88.212	1.00	22.24	B	C
ATOM	12807	CD	GLU	B	209	52.406	-60.092	-87.487	1.00	22.68	B	C
ATOM	12808	OE1	GLU	B	209	51.894	-60.705	-86.527	1.00	20.36	B	O
ATOM	12809	OE2	GLU	B	209	53.570	-60.330	-87.882	1.00	23.81	B	O
ATOM	12810	C	GLU	B	209	47.840	-59.808	-87.544	1.00	19.66	B	C
ATOM	12811	O	GLU	B	209	47.707	-60.371	-86.467	1.00	21.43	B	O
ATOM	12813	N	GLY	B	210	46.875	-59.076	-88.080	1.00	20.19	B	N
ATOM	12814	CA	GLY	B	210	45.633	-58.844	-87.367	1.00	22.73	B	C
ATOM	12817	C	GLY	B	210	44.441	-58.773	-88.285	1.00	24.35	B	C
ATOM	12818	O	GLY	B	210	44.579	-58.555	-89.492	1.00	29.49	B	O
ATOM	12820	N	VAL	B	211	43.280	-59.001	-87.690	1.00	23.47	B	N
ATOM	12821	CA	VAL	B	211	41.994	-58.839	-88.334	1.00	27.41	B	C
ATOM	12823	CB	VAL	B	211	41.218	-60.196	-88.437	1.00	26.91	B	C
ATOM	12825	CG1	VAL	B	211	39.808	-59.985	-88.945	1.00	22.67	B	C
ATOM	12829	CG2	VAL	B	211	41.947	-61.137	-89.339	1.00	24.74	B	C
ATOM	12833	C	VAL	B	211	41.218	-57.847	-87.489	1.00	26.97	B	C
ATOM	12834	O	VAL	B	211	41.057	-58.037	-86.274	1.00	29.50	B	O
ATOM	12836	N	VAL	B	212	40.768	-56.772	-88.126	1.00	25.07	B	N
ATOM	12837	CA	VAL	B	212	40.040	-55.722	-87.429	1.00	30.10	B	C
ATOM	12839	CB	VAL	B	212	39.562	-54.624	-88.410	1.00	26.29	B	C
ATOM	12841	CG1	VAL	B	212	38.905	-53.504	-87.667	1.00	22.55	B	C
ATOM	12845	CG2	VAL	B	212	40.721	-54.100	-89.261	1.00	23.72	B	C
ATOM	12849	C	VAL	B	212	38.838	-56.354	-86.732	1.00	32.68	B	C
ATOM	12850	O	VAL	B	212	38.007	-56.977	-87.392	1.00	32.55	B	O
ATOM	12852	N	THR	B	213	38.751	-56.205	-85.410	1.00	38.68	B	N
ATOM	12853	CA	THR	B	213	37.755	-56.931	-84.617	1.00	43.21	B	C
ATOM	12855	CB	THR	B	213	38.284	-57.420	-83.232	1.00	44.47	B	C
ATOM	12857	OG1	THR	B	213	37.737	-56.618	-82.178	1.00	51.49	B	O

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ATOM	12859	CG2	THR	B	213	39.776	-57.391	-83.161	1.00	45.20	B	C
ATOM	12863	C	THR	B	213	36.547	-56.066	-84.348	1.00	48.06	B	C
ATOM	12864	O	THR	B	213	36.689	-54.904	-83.949	1.00	48.06	B	O
ATOM	12866	N	SER	B	214	35.370	-56.680	-84.514	1.00	52.98	B	N
ATOM	12867	CA	SER	B	214	34.056	-56.028	-84.388	1.00	53.87	B	C
ATOM	12869	CB	SER	B	214	32.943	-57.038	-84.683	1.00	54.46	B	C
ATOM	12872	OG	SER	B	214	33.121	-57.650	-85.952	1.00	56.90	B	O
ATOM	12874	C	SER	B	214	33.773	-55.386	-83.024	1.00	56.74	B	C
ATOM	12875	O	SER	B	214	34.412	-55.709	-82.012	1.00	55.19	B	O
ATOM	12877	N	GLY	B	215	32.795	-54.479	-83.020	1.00	57.46	B	N
ATOM	12878	CA	GLY	B	215	32.375	-53.799	-81.801	1.00	58.22	B	C
ATOM	12881	C	GLY	B	215	31.651	-52.491	-82.057	1.00	59.41	B	C
ATOM	12882	O	GLY	B	215	31.572	-52.017	-83.196	1.00	58.04	B	O
ATOM	12884	N	SER	B	216	31.139	-51.908	-80.973	1.00	60.54	B	N
ATOM	12885	CA	SER	B	216	30.436	-50.626	-81.010	1.00	58.52	B	C
ATOM	12887	CB	SER	B	216	29.458	-50.531	-79.829	1.00	62.23	B	C
ATOM	12890	OG	SER	B	216	28.595	-51.655	-79.770	1.00	63.51	B	O
ATOM	12892	C	SER	B	216	31.401	-49.440	-80.941	1.00	58.82	B	C
ATOM	12893	O	SER	B	216	30.979	-48.307	-80.669	1.00	59.52	B	O
ATOM	12895	N	ARG	B	217	32.687	-49.687	-81.190	1.00	52.13	B	N
ATOM	12896	CA	ARG	B	217	33.693	-48.661	-80.985	1.00	49.02	B	C
ATOM	12898	CB	ARG	B	217	35.099	-49.260	-81.009	1.00	47.01	B	C
ATOM	12901	CG	ARG	B	217	36.190	-48.329	-80.506	1.00	44.75	B	C
ATOM	12904	CD	ARG	B	217	37.541	-49.000	-80.614	1.00	43.24	B	C
ATOM	12907	NE	ARG	B	217	37.833	-49.308	-82.006	1.00	40.55	B	N
ATOM	12909	CZ	ARG	B	217	38.405	-48.474	-82.866	1.00	40.85	B	C
ATOM	12910	NH1	ARG	B	217	38.802	-47.263	-82.488	1.00	41.60	B	N
ATOM	12913	NH2	ARG	B	217	38.596	-48.863	-84.111	1.00	41.87	B	N
ATOM	12916	C	ARG	B	217	33.542	-47.574	-82.044	1.00	46.79	B	C
ATOM	12917	O	ARG	B	217	33.588	-47.845	-83.253	1.00	43.16	B	O
ATOM	12919	N	VAL	B	218	33.333	-46.349	-81.565	1.00	45.08	B	N
ATOM	12920	CA	VAL	B	218	33.277	-45.168	-82.420	1.00	44.05	B	C
ATOM	12922	CB	VAL	B	218	32.370	-44.007	-81.831	1.00	42.47	B	C
ATOM	12924	CG1	VAL	B	218	31.669	-44.430	-80.534	1.00	45.34	B	C
ATOM	12928	CG2	VAL	B	218	33.145	-42.684	-81.665	1.00	37.20	B	C
ATOM	12932	C	VAL	B	218	34.723	-44.760	-82.688	1.00	42.28	B	C
ATOM	12933	O	VAL	B	218	35.502	-44.535	-81.763	1.00	47.05	B	O
ATOM	12935	N	CYS	B	219	35.078	-44.718	-83.964	1.00	42.66	B	N
ATOM	12936	CA	CYS	B	219	36.449	-44.539	-84.365	1.00	40.61	B	C
ATOM	12938	CB	CYS	B	219	36.652	-45.026	-85.811	1.00	45.01	B	C
ATOM	12941	SG	CYS	B	219	35.958	-44.035	-87.177	1.00	44.56	B	S
ATOM	12943	C	CYS	B	219	36.896	-43.095	-84.184	1.00	38.26	B	C
ATOM	12944	O	CYS	B	219	36.081	-42.216	-83.920	1.00	35.49	B	O
ATOM	12946	N	GLY	B	220	38.207	-42.875	-84.290	1.00	38.66	B	N
ATOM	12947	CA	GLY	B	220	38.796	-41.545	-84.193	1.00	36.27	B	C
ATOM	12950	C	GLY	B	220	39.009	-40.990	-82.800	1.00	34.67	B	C
ATOM	12951	O	GLY	B	220	39.574	-39.908	-82.666	1.00	31.81	B	O
ATOM	12953	N	ASN	B	221	38.561	-41.722	-81.775	1.00	34.53	B	N
ATOM	12954	CA	ASN	B	221	38.732	-41.330	-80.361	1.00	31.34	B	C
ATOM	12956	CB	ASN	B	221	37.532	-41.804	-79.526	1.00	30.32	B	C
ATOM	12959	CG	ASN	B	221	37.630	-41.368	-78.079	1.00	33.10	B	C
ATOM	12960	OD1	ASN	B	221	38.596	-40.687	-77.695	1.00	29.33	B	O
ATOM	12961	ND2	ASN	B	221	36.632	-41.747	-77.260	1.00	30.55	B	N
ATOM	12964	C	ASN	B	221	40.008	-41.892	-79.708	1.00	25.77	B	C
ATOM	12965	O	ASN	B	221	40.168	-43.115	-79.556	1.00	31.37	B	O
ATOM	12967	N	ARG	B	222	40.877	-40.998	-79.260	1.00	21.52	B	N
ATOM	12968	CA	ARG	B	222	42.143	-41.397	-78.662	1.00	31.80	B	C
ATOM	12970	CB	ARG	B	222	42.990	-40.174	-78.280	1.00	39.15	B	C
ATOM	12973	CG	ARG	B	222	42.325	-39.248	-77.270	1.00	42.38	B	C
ATOM	12976	CD	ARG	B	222	43.326	-38.407	-76.524	1.00	43.71	B	C
ATOM	12979	NE	ARG	B	222	42.674	-37.524	-75.548	1.00	46.61	B	N
ATOM	12981	CZ	ARG	B	222	42.638	-37.716	-74.222	1.00	48.44	B	C
ATOM	12982	NH1	ARG	B	222	43.201	-38.782	-73.650	1.00	48.01	B	N
ATOM	12985	NH2	ARG	B	222	42.026	-36.820	-73.455	1.00	48.27	B	N
ATOM	12988	C	ARG	B	222	41.975	-42.294	-77.441	1.00	29.03	B	C
ATOM	12989	O	ARG	B	222	42.868	-43.078	-77.147	1.00	26.64	B	O
ATOM	12991	N	LYS	B	223	40.839	-42.176	-76.742	1.00	19.67	B	N
ATOM	12992	CA	LYS	B	223	40.588	-42.968	-75.549	1.00	23.73	B	C

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ATOM	12994	CB	LYS	B	223	39.543	-42.280	-74.663	1.00	26.03	B	C
ATOM	12997	CG	LYS	B	223	40.011	-40.935	-74.111	1.00	24.43	B	C
ATOM	13000	CD	LYS	B	223	38.967	-40.338	-73.182	1.00	26.56	B	C
ATOM	13003	CE	LYS	B	223	39.451	-39.070	-72.541	1.00	26.53	B	C
ATOM	13006	NZ	LYS	B	223	38.410	-38.586	-71.534	1.00	26.62	B	N
ATOM	13010	C	LYS	B	223	40.138	-44.383	-75.830	1.00	23.91	B	C
ATOM	13011	O	LYS	B	223	39.960	-45.137	-74.897	1.00	25.38	B	O
ATOM	13013	N	LYS	B	224	39.928	-44.739	-77.100	1.00	25.57	B	N
ATOM	13014	CA	LYS	B	224	39.579	-46.107	-77.475	1.00	23.84	B	C
ATOM	13016	CB	LYS	B	224	38.086	-46.197	-77.726	1.00	27.62	B	C
ATOM	13019	CG	LYS	B	224	37.227	-45.953	-76.487	1.00	22.32	B	C
ATOM	13022	CD	LYS	B	224	37.413	-47.064	-75.495	1.00	28.01	B	C
ATOM	13025	CE	LYS	B	224	36.370	-47.038	-74.389	1.00	30.00	B	C
ATOM	13028	NZ	LYS	B	224	36.718	-45.985	-73.460	1.00	30.16	B	N
ATOM	13032	C	LYS	B	224	40.333	-46.526	-78.728	1.00	26.59	B	C
ATOM	13033	O	LYS	B	224	39.846	-46.292	-79.821	1.00	26.94	B	O
ATOM	13035	N	PRO	B	225	41.534	-47.125	-78.568	1.00	21.64	B	N
ATOM	13036	CA	PRO	B	225	42.341	-47.586	-79.692	1.00	24.08	B	C
ATOM	13038	CB	PRO	B	225	43.583	-48.179	-79.008	1.00	24.21	B	C
ATOM	13041	CG	PRO	B	225	43.609	-47.510	-77.623	1.00	21.28	B	C
ATOM	13044	CD	PRO	B	225	42.198	-47.388	-77.279	1.00	19.22	B	C
ATOM	13047	C	PRO	B	225	41.652	-48.654	-80.537	1.00	24.95	B	C
ATOM	13048	O	PRO	B	225	40.725	-49.311	-80.064	1.00	19.94	B	O
ATOM	13049	N	GLY	B	226	42.114	-48.815	-81.779	1.00	25.87	B	N
ATOM	13050	CA	GLY	B	226	41.706	-49.936	-82.601	1.00	23.30	B	C
ATOM	13053	C	GLY	B	226	42.083	-51.256	-81.954	1.00	24.37	B	C
ATOM	13054	O	GLY	B	226	43.182	-51.391	-81.399	1.00	20.66	B	O
ATOM	13056	N	ILE	B	227	41.149	-52.209	-81.989	1.00	26.50	B	N
ATOM	13057	CA	ILE	B	227	41.370	-53.579	-81.511	1.00	26.12	B	C
ATOM	13059	CB	ILE	B	227	40.251	-54.075	-80.599	1.00	23.20	B	C
ATOM	13061	CG1	ILE	B	227	40.032	-53.100	-79.451	1.00	27.37	B	C
ATOM	13064	CD1	ILE	B	227	38.962	-53.533	-78.473	1.00	25.99	B	C
ATOM	13068	CG2	ILE	B	227	40.620	-55.455	-80.016	1.00	24.03	B	C
ATOM	13072	C	ILE	B	227	41.476	-54.525	-82.705	1.00	22.93	B	C
ATOM	13073	O	ILE	B	227	40.673	-54.453	-83.600	1.00	24.13	B	O
ATOM	13075	N	TYR	B	228	42.495	-55.383	-82.702	1.00	24.67	B	N
ATOM	13076	CA	TYR	B	228	42.776	-56.303	-83.800	1.00	27.23	B	C
ATOM	13078	CB	TYR	B	228	43.970	-55.808	-84.632	1.00	30.05	B	C
ATOM	13081	CG	TYR	B	228	43.768	-54.405	-85.142	1.00	31.24	B	C
ATOM	13082	CD1	TYR	B	228	43.292	-54.167	-86.431	1.00	34.27	B	C
ATOM	13084	CE1	TYR	B	228	43.077	-52.867	-86.893	1.00	31.75	B	C
ATOM	13086	CZ	TYR	B	228	43.329	-51.788	-86.052	1.00	32.54	B	C
ATOM	13087	OH	TYR	B	228	43.123	-50.480	-86.484	1.00	34.49	B	O
ATOM	13089	CE2	TYR	B	228	43.792	-52.007	-84.770	1.00	32.60	B	C
ATOM	13091	CD2	TYR	B	228	44.017	-53.309	-84.326	1.00	32.70	B	C
ATOM	13093	C	TYR	B	228	43.036	-57.679	-83.186	1.00	29.09	B	C
ATOM	13094	O	TYR	B	228	43.648	-57.774	-82.126	1.00	32.03	B	O
ATOM	13096	N	THR	B	229	42.518	-58.732	-83.820	1.00	33.05	B	N
ATOM	13097	CA	THR	B	229	42.749	-60.102	-83.359	1.00	28.74	B	C
ATOM	13099	CB	THR	B	229	41.557	-61.033	-83.664	1.00	27.50	B	C
ATOM	13101	OG1	THR	B	229	40.393	-60.526	-82.999	1.00	35.85	B	O
ATOM	13103	CG2	THR	B	229	41.840	-62.435	-83.160	1.00	27.56	B	C
ATOM	13107	C	THR	B	229	43.984	-60.599	-84.045	1.00	25.39	B	C
ATOM	13108	O	THR	B	229	44.106	-60.457	-85.259	1.00	27.69	B	O
ATOM	13110	N	ARG	B	230	44.900	-61.188	-83.273	1.00	25.80	B	N
ATOM	13111	CA	ARG	B	230	46.200	-61.611	-83.801	1.00	22.04	B	C
ATOM	13113	CB	ARG	B	230	47.243	-61.674	-82.687	1.00	16.56	B	C
ATOM	13116	CG	ARG	B	230	47.309	-60.448	-81.785	1.00	21.78	B	C
ATOM	13119	CD	ARG	B	230	48.451	-60.508	-80.760	1.00	20.47	B	C
ATOM	13122	NE	ARG	B	230	49.634	-61.154	-81.339	1.00	20.11	B	N
ATOM	13124	CZ	ARG	B	230	50.078	-62.374	-81.025	1.00	19.36	B	C
ATOM	13125	NH1	ARG	B	230	49.464	-63.094	-80.088	1.00	15.22	B	N
ATOM	13128	NH2	ARG	B	230	51.166	-62.864	-81.634	1.00	17.45	B	N
ATOM	13131	C	ARG	B	230	46.100	-62.971	-84.496	1.00	23.77	B	C
ATOM	13132	O	ARG	B	230	45.770	-63.954	-83.861	1.00	23.45	B	O
ATOM	13134	N	VAL	B	231	46.396	-63.020	-85.799	1.00	24.64	B	N
ATOM	13135	CA	VAL	B	231	46.173	-64.227	-86.590	1.00	24.06	B	C
ATOM	13137	CB	VAL	B	231	46.328	-63.989	-88.137	1.00	19.98	B	C

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ATOM	13139	CG1	VAL	B	231	45.390	-62.868	-88.619	1.00	15.87	B	C
ATOM	13143	CG2	VAL	B	231	47.761	-63.676	-88.517	1.00	20.74	B	C
ATOM	13147	C	VAL	B	231	47.100	-65.345	-86.106	1.00	31.59	B	C
ATOM	13148	O	VAL	B	231	46.669	-66.492	-85.989	1.00	30.56	B	O
ATOM	13150	N	ALA	B	232	48.348	-64.988	-85.778	1.00	34.03	B	N
ATOM	13151	CA	ALA	B	232	49.348	-65.922	-85.239	1.00	29.56	B	C
ATOM	13153	CB	ALA	B	232	50.632	-65.180	-84.896	1.00	28.02	B	C
ATOM	13157	C	ALA	B	232	48.862	-66.711	-84.025	1.00	27.13	B	C
ATOM	13158	O	ALA	B	232	49.232	-67.863	-83.848	1.00	30.33	B	O
ATOM	13160	N	SER	B	233	48.003	-66.104	-83.224	1.00	29.52	B	N
ATOM	13161	CA	SER	B	233	47.456	-66.758	-82.041	1.00	32.05	B	C
ATOM	13163	CB	SER	B	233	46.819	-65.705	-81.138	1.00	32.47	B	C
ATOM	13166	OG	ASER	B	233	46.469	-66.253	-79.886	0.70	33.28	B	O
ATOM	13167	OG	BSER	B	233	46.476	-66.253	-79.881	0.30	32.87	B	O
ATOM	13170	C	SER	B	233	46.418	-67.841	-82.379	1.00	36.21	B	C
ATOM	13171	O	SER	B	233	46.042	-68.639	-81.511	1.00	32.89	B	O
ATOM	13173	N	TYR	B	234	45.946	-67.840	-83.628	1.00	36.81	B	N
ATOM	13174	CA	TYR	B	234	44.969	-68.809	-84.119	1.00	33.43	B	C
ATOM	13176	CB	TYR	B	234	43.687	-68.069	-84.538	1.00	27.07	B	C
ATOM	13179	CG	TYR	B	234	43.034	-67.410	-83.355	1.00	27.36	B	C
ATOM	13180	CD1	TYR	B	234	42.121	-68.102	-82.570	1.00	24.29	B	C
ATOM	13182	CE1	TYR	B	234	41.547	-67.516	-81.470	1.00	27.04	B	C
ATOM	13184	CZ	TYR	B	234	41.885	-66.214	-81.131	1.00	27.17	B	C
ATOM	13185	OH	TYR	B	234	41.313	-65.636	-80.024	1.00	24.92	B	O
ATOM	13187	CE2	TYR	B	234	42.802	-65.513	-81.889	1.00	23.22	B	C
ATOM	13189	CD2	TYR	B	234	43.363	-66.105	-82.990	1.00	24.96	B	C
ATOM	13191	C	TYR	B	234	45.537	-69.629	-85.275	1.00	32.65	B	C
ATOM	13192	O	TYR	B	234	44.787	-70.129	-86.101	1.00	32.40	B	O
ATOM	13194	N	ALA	B	235	46.859	-69.788	-85.313	1.00	33.23	B	N
ATOM	13195	CA	ALA	B	235	47.530	-70.362	-86.468	1.00	36.14	B	C
ATOM	13197	CB	ALA	B	235	49.038	-70.188	-86.358	1.00	35.92	B	C
ATOM	13201	C	ALA	B	235	47.180	-71.829	-86.685	1.00	40.42	B	C
ATOM	13202	O	ALA	B	235	47.099	-72.268	-87.827	1.00	37.42	B	O
ATOM	13204	N	ALA	B	236	46.969	-72.574	-85.596	1.00	44.20	B	N
ATOM	13205	CA	ALA	B	236	46.585	-73.992	-85.682	1.00	44.92	B	C
ATOM	13207	CB	ALA	B	236	46.840	-74.698	-84.354	1.00	45.62	B	C
ATOM	13211	C	ALA	B	236	45.118	-74.160	-86.111	1.00	46.95	B	C
ATOM	13212	O	ALA	B	236	44.770	-75.138	-86.793	1.00	44.28	B	O
ATOM	13214	N	TRP	B	237	44.275	-73.206	-85.711	1.00	45.41	B	N
ATOM	13215	CA	TRP	B	237	42.873	-73.171	-86.131	1.00	44.74	B	C
ATOM	13217	CB	TRP	B	237	42.097	-72.176	-85.284	1.00	46.44	B	C
ATOM	13220	CG	TRP	B	237	40.679	-72.060	-85.689	1.00	47.73	B	C
ATOM	13221	CD1	TRP	B	237	39.682	-72.956	-85.439	1.00	48.34	B	C
ATOM	13223	NE1	TRP	B	237	38.496	-72.503	-85.968	1.00	48.60	B	N
ATOM	13225	CE2	TRP	B	237	38.712	-71.296	-86.581	1.00	48.23	B	C
ATOM	13226	CD2	TRP	B	237	40.079	-70.983	-86.424	1.00	49.07	B	C
ATOM	13227	CE3	TRP	B	237	40.564	-69.781	-86.961	1.00	49.18	B	C
ATOM	13229	CZ3	TRP	B	237	39.675	-68.940	-87.628	1.00	47.94	B	C
ATOM	13231	CH2	TRP	B	237	38.320	-69.280	-87.765	1.00	47.55	B	C
ATOM	13233	CZ2	TRP	B	237	37.820	-70.449	-87.253	1.00	48.82	B	C
ATOM	13235	C	TRP	B	237	42.717	-72.809	-87.611	1.00	43.89	B	C
ATOM	13236	O	TRP	B	237	41.906	-73.412	-88.318	1.00	43.80	B	O
ATOM	13238	N	ILE	B	238	43.483	-71.818	-88.066	1.00	41.60	B	N
ATOM	13239	CA	ILE	B	238	43.484	-71.413	-89.472	1.00	41.42	B	C
ATOM	13241	CB	ILE	B	238	44.378	-70.159	-89.731	1.00	40.10	B	C
ATOM	13243	CG1	ILE	B	238	43.760	-68.917	-89.084	1.00	37.96	B	C
ATOM	13246	CD1	ILE	B	238	44.693	-67.720	-89.048	1.00	37.39	B	C
ATOM	13250	CG2	ILE	B	238	44.584	-69.923	-91.243	1.00	38.65	B	C
ATOM	13254	C	ILE	B	238	43.947	-72.562	-90.366	1.00	41.67	B	C
ATOM	13255	O	ILE	B	238	43.383	-72.769	-91.440	1.00	43.03	B	O
ATOM	13257	N	ASP	B	239	44.967	-73.299	-89.922	1.00	40.13	B	N
ATOM	13258	CA	ASP	B	239	45.498	-74.433	-90.684	1.00	38.88	B	C
ATOM	13260	CB	ASP	B	239	46.751	-75.012	-89.999	1.00	41.07	B	C
ATOM	13263	CG	ASP	B	239	47.972	-74.107	-90.106	1.00	39.85	B	C
ATOM	13264	OD1	ASP	B	239	48.036	-73.261	-91.020	1.00	40.45	B	O
ATOM	13265	OD2	ASP	B	239	48.881	-74.257	-89.263	1.00	34.60	B	O
ATOM	13266	C	ASP	B	239	44.478	-75.568	-90.860	1.00	35.34	B	C
ATOM	13267	O	ASP	B	239	44.451	-76.224	-91.919	1.00	29.37	B	O

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ATOM	13269	N	SER	B	240	43.676	-75.804	-89.814	1.00	31.43	B	N
ATOM	13270	CA	SER	B	240	42.705	-76.898	-89.789	1.00	35.28	B	C
ATOM	13272	CB	SER	B	240	42.243	-77.205	-88.362	1.00	32.54	B	C
ATOM	13275	OG	ASER	B	240	41.543	-76.119	-87.793	0.60	34.01	B	O
ATOM	13276	OG	BSER	B	240	41.545	-76.114	-87.795	0.40	33.91	B	O
ATOM	13279	C	SER	B	240	41.502	-76.639	-90.690	1.00	39.25	B	C
ATOM	13280	O	SER	B	240	40.983	-77.568	-91.311	1.00	41.26	B	O
ATOM	13282	N	VAL	B	241	41.066	-75.383	-90.761	1.00	42.50	B	N
ATOM	13283	CA	VAL	B	241	39.999	-74.996	-91.678	1.00	39.20	B	C
ATOM	13285	CB	VAL	B	241	39.357	-73.676	-91.240	1.00	38.67	B	C
ATOM	13287	CG1	VAL	B	241	38.297	-73.229	-92.236	1.00	41.01	B	C
ATOM	13291	CG2	VAL	B	241	38.739	-73.840	-89.850	1.00	37.15	B	C
ATOM	13295	C	VAL	B	241	40.512	-74.973	-93.138	1.00	40.16	B	C
ATOM	13296	O	VAL	B	241	39.831	-75.471	-94.030	1.00	42.73	B	O
ATOM	13298	N	LEU	B	242	41.725	-74.459	-93.369	1.00	39.93	B	N
ATOM	13299	CA	LEU	B	242	42.328	-74.414	-94.729	1.00	40.02	B	C
ATOM	13301	CB	LEU	B	242	43.447	-73.358	-94.810	1.00	37.96	B	C
ATOM	13304	CG	LEU	B	242	43.039	-71.901	-95.059	1.00	35.95	B	C
ATOM	13306	CD1	LEU	B	242	42.081	-71.428	-94.012	1.00	33.01	B	C
ATOM	13310	CD2	LEU	B	242	44.268	-71.016	-95.095	1.00	37.74	B	C
ATOM	13314	C	LEU	B	242	42.891	-75.745	-95.246	1.00	43.69	B	C
ATOM	13315	O	LEU	B	242	43.248	-75.850	-96.432	1.00	41.13	B	O
ATOM	13317	N	ALA	B	243	42.987	-76.746	-94.371	1.00	44.89	B	N
ATOM	13318	CA	ALA	B	243	43.600	-78.025	-94.725	1.00	44.55	B	C
ATOM	13320	CB	ALA	B	243	43.643	-78.939	-93.509	1.00	44.61	B	C
ATOM	13324	C	ALA	B	243	42.863	-78.708	-95.879	1.00	45.79	B	C
ATOM	13325	O	ALA	B	243	43.480	-79.312	-96.763	1.00	48.06	B	O
ATOM	13327	OXT	ALA	B	243	41.634	-78.667	-95.950	1.00	43.21	B	O
ATOM	13328	N	ASP	D	1	48.973	-32.215	-66.529	1.00	19.57	D	N
ATOM	13329	CA	ASP	D	1	48.225	-32.692	-65.331	1.00	24.41	D	C
ATOM	13331	CB	ASP	D	1	49.025	-32.404	-64.042	1.00	26.97	D	C
ATOM	13334	CG	ASP	D	1	49.111	-30.913	-63.702	1.00	32.13	D	C
ATOM	13335	OD1	ASP	D	1	49.242	-30.078	-64.640	1.00	28.05	D	O
ATOM	13336	OD2	ASP	D	1	49.041	-30.579	-62.487	1.00	31.06	D	O
ATOM	13337	C	ASP	D	1	46.853	-32.036	-65.278	1.00	21.56	D	C
ATOM	13338	O	ASP	D	1	46.668	-30.908	-65.781	1.00	25.79	D	O
ATOM	13342	N	ILE	D	2	45.894	-32.724	-64.666	1.00	22.91	D	N
ATOM	13343	CA	ILE	D	2	44.509	-32.222	-64.563	1.00	21.69	D	C
ATOM	13345	CB	ILE	D	2	43.496	-33.203	-65.207	1.00	19.40	D	C
ATOM	13347	CG1	ILE	D	2	43.829	-33.417	-66.693	1.00	25.16	D	C
ATOM	13350	CD1	ILE	D	2	42.831	-34.241	-67.486	1.00	25.49	D	C
ATOM	13354	CG2	ILE	D	2	42.041	-32.716	-65.022	1.00	19.22	D	C
ATOM	13358	C	ILE	D	2	44.166	-32.014	-63.090	1.00	26.88	D	C
ATOM	13359	O	ILE	D	2	44.398	-32.898	-62.261	1.00	30.79	D	O
ATOM	13361	N	GLN	D	3	43.620	-30.841	-62.771	1.00	25.83	D	N
ATOM	13362	CA	GLN	D	3	43.249	-30.493	-61.404	1.00	24.89	D	C
ATOM	13364	CB	GLN	D	3	43.170	-28.973	-61.229	1.00	31.96	D	C
ATOM	13367	CG	GLN	D	3	42.984	-28.463	-59.797	1.00	29.94	D	C
ATOM	13370	CD	GLN	D	3	42.672	-26.982	-59.746	1.00	35.38	D	C
ATOM	13371	OE1	GLN	D	3	42.206	-26.393	-60.723	1.00	47.20	D	O
ATOM	13372	NE2	GLN	D	3	42.916	-26.367	-58.599	1.00	39.60	D	N
ATOM	13375	C	GLN	D	3	41.897	-31.096	-61.070	1.00	24.25	D	C
ATOM	13376	O	GLN	D	3	40.986	-31.154	-61.901	1.00	20.21	D	O
ATOM	13378	N	VAL	D	4	41.762	-31.543	-59.829	1.00	20.69	D	N
ATOM	13379	CA	VAL	D	4	40.531	-32.103	-59.389	1.00	20.45	D	C
ATOM	13381	CB	VAL	D	4	40.607	-33.631	-59.293	1.00	26.93	D	C
ATOM	13383	CG1	VAL	D	4	39.261	-34.207	-58.858	1.00	31.60	D	C
ATOM	13387	CG2	VAL	D	4	41.038	-34.213	-60.647	1.00	25.84	D	C
ATOM	13391	C	VAL	D	4	40.255	-31.487	-58.045	1.00	23.12	D	C
ATOM	13392	O	VAL	D	4	41.082	-31.560	-57.122	1.00	22.41	D	O
ATOM	13394	N	THR	D	5	39.088	-30.867	-57.941	1.00	24.54	D	N
ATOM	13395	CA	THR	D	5	38.617	-30.330	-56.681	1.00	20.09	D	C
ATOM	13397	CB	THR	D	5	38.138	-28.873	-56.853	1.00	22.80	D	C
ATOM	13399	OG1	THR	D	5	39.254	-28.080	-57.176	1.00	22.15	D	O
ATOM	13401	CG2	THR	D	5	37.526	-28.338	-55.555	1.00	21.63	D	C
ATOM	13405	C	THR	D	5	37.454	-31.145	-56.192	1.00	18.91	D	C
ATOM	13406	O	THR	D	5	36.415	-31.199	-56.850	1.00	22.90	D	O
ATOM	13408	N	GLN	D	6	37.614	-31.742	-55.014	1.00	28.74	D	N

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ATOM	13409	CA	GLN	D	6	36.606	-32.573	-54.418	1.00	23.73	D	C
ATOM	13411	CB	GLN	D	6	37.190	-33.910	-53.965	1.00	24.43	D	C
ATOM	13414	CG	GLN	D	6	36.124	-34.842	-53.363	1.00	27.14	D	C
ATOM	13417	CD	GLN	D	6	36.607	-36.243	-53.121	1.00	29.14	D	C
ATOM	13418	OE1	GLN	D	6	37.618	-36.678	-53.685	1.00	29.57	D	O
ATOM	13419	NE2	GLN	D	6	35.892	-36.963	-52.272	1.00	26.51	D	N
ATOM	13422	C	GLN	D	6	36.017	-31.886	-53.207	1.00	25.91	D	C
ATOM	13423	O	GLN	D	6	36.756	-31.321	-52.389	1.00	21.21	D	O
ATOM	13425	N	SER	D	7	34.691	-31.979	-53.069	1.00	25.02	D	N
ATOM	13426	CA	SER	D	7	34.006	-31.337	-51.944	1.00	23.41	D	C
ATOM	13428	CB	SER	D	7	33.661	-29.874	-52.279	1.00	26.36	D	C
ATOM	13431	OG	SER	D	7	33.278	-29.733	-53.615	1.00	27.44	D	O
ATOM	13433	C	SER	D	7	32.760	-32.089	-51.496	1.00	20.11	D	C
ATOM	13434	O	SER	D	7	32.172	-32.827	-52.270	1.00	17.38	D	O
ATOM	13436	N	PRO	D	8	32.362	-31.936	-50.213	1.00	20.95	D	N
ATOM	13437	CA	PRO	D	8	33.012	-31.202	-49.150	1.00	20.86	D	C
ATOM	13439	CB	PRO	D	8	31.915	-31.094	-48.088	1.00	22.69	D	C
ATOM	13442	CG	PRO	D	8	31.151	-32.325	-48.232	1.00	20.93	D	C
ATOM	13445	CD	PRO	D	8	31.143	-32.611	-49.731	1.00	18.09	D	C
ATOM	13448	C	PRO	D	8	34.199	-31.997	-48.598	1.00	23.11	D	C
ATOM	13449	O	PRO	D	8	34.405	-33.155	-48.991	1.00	28.31	D	O
ATOM	13450	N	SER	D	9	34.950	-31.386	-47.683	1.00	23.18	D	N
ATOM	13451	CA	SER	D	9	36.032	-32.063	-46.978	1.00	25.81	D	C
ATOM	13453	CB	SER	D	9	36.928	-31.059	-46.272	1.00	29.03	D	C
ATOM	13456	OG	SER	D	9	37.318	-30.064	-47.196	1.00	38.54	D	O
ATOM	13458	C	SER	D	9	35.487	-33.051	-45.982	1.00	24.05	D	C
ATOM	13459	O	SER	D	9	36.058	-34.107	-45.785	1.00	18.27	D	O
ATOM	13461	N	SER	D	10	34.367	-32.711	-45.355	1.00	24.78	D	N
ATOM	13462	CA	SER	D	10	33.684	-33.657	-44.500	1.00	22.43	D	C
ATOM	13464	CB	SER	D	10	34.355	-33.723	-43.112	1.00	24.16	D	C
ATOM	13467	OG	SER	D	10	34.357	-32.461	-42.487	1.00	30.49	D	O
ATOM	13469	C	SER	D	10	32.187	-33.330	-44.425	1.00	22.54	D	C
ATOM	13470	O	SER	D	10	31.733	-32.216	-44.731	1.00	20.86	D	O
ATOM	13472	N	LEU	D	11	31.417	-34.348	-44.109	1.00	22.69	D	N
ATOM	13473	CA	LEU	D	11	29.981	-34.203	-43.931	1.00	22.25	D	C
ATOM	13475	CB	LEU	D	11	29.197	-34.378	-45.240	1.00	22.13	D	C
ATOM	13478	CG	LEU	D	11	29.091	-35.745	-45.905	1.00	20.33	D	C
ATOM	13480	CD1	LEU	D	11	27.960	-36.598	-45.314	1.00	18.37	D	C
ATOM	13484	CD2	LEU	D	11	28.928	-35.596	-47.436	1.00	23.97	D	C
ATOM	13488	C	LEU	D	11	29.530	-35.214	-42.922	1.00	24.57	D	C
ATOM	13489	O	LEU	D	11	30.217	-36.222	-42.667	1.00	25.25	D	O
ATOM	13491	N	SER	D	12	28.373	-34.911	-42.351	1.00	26.67	D	N
ATOM	13492	CA	SER	D	12	27.732	-35.727	-41.361	1.00	26.87	D	C
ATOM	13494	CB	SER	D	12	27.901	-35.083	-39.991	1.00	30.17	D	C
ATOM	13497	OG	SER	D	12	27.493	-35.975	-38.995	1.00	30.87	D	O
ATOM	13499	C	SER	D	12	26.245	-35.813	-41.692	1.00	26.02	D	C
ATOM	13500	O	SER	D	12	25.575	-34.796	-41.839	1.00	25.36	D	O
ATOM	13502	N	ALA	D	13	25.727	-37.030	-41.783	1.00	24.10	D	N
ATOM	13503	CA	ALA	D	13	24.323	-37.238	-42.116	1.00	26.90	D	C
ATOM	13505	CB	ALA	D	13	24.176	-37.461	-43.588	1.00	28.31	D	C
ATOM	13509	C	ALA	D	13	23.808	-38.430	-41.346	1.00	28.05	D	C
ATOM	13510	O	ALA	D	13	24.592	-39.235	-40.880	1.00	26.76	D	O
ATOM	13512	N	SER	D	14	22.490	-38.546	-41.217	1.00	30.67	D	N
ATOM	13513	CA	SER	D	14	21.874	-39.675	-40.529	1.00	25.25	D	C
ATOM	13515	CB	SER	D	14	20.503	-39.275	-40.003	1.00	26.90	D	C
ATOM	13518	OG	SER	D	14	20.585	-38.111	-39.208	1.00	33.41	D	O
ATOM	13520	C	SER	D	14	21.726	-40.916	-41.424	1.00	26.66	D	C
ATOM	13521	O	SER	D	14	21.773	-40.833	-42.663	1.00	23.39	D	O
ATOM	13523	N	VAL	D	15	21.518	-42.061	-40.776	1.00	20.93	D	N
ATOM	13524	CA	VAL	D	15	21.249	-43.328	-41.457	1.00	26.09	D	C
ATOM	13526	CB	VAL	D	15	21.135	-44.512	-40.430	1.00	25.46	D	C
ATOM	13528	CG1	VAL	D	15	20.622	-45.811	-41.082	1.00	22.95	D	C
ATOM	13532	CG2	VAL	D	15	22.485	-44.765	-39.768	1.00	24.08	D	C
ATOM	13536	C	VAL	D	15	19.972	-43.199	-42.291	1.00	28.08	D	C
ATOM	13537	O	VAL	D	15	18.915	-42.804	-41.780	1.00	29.11	D	O
ATOM	13539	N	GLY	D	16	20.087	-43.529	-43.575	1.00	27.77	D	N
ATOM	13540	CA	GLY	D	16	19.010	-43.361	-44.532	1.00	26.28	D	C
ATOM	13543	C	GLY	D	16	19.047	-42.075	-45.344	1.00	26.03	D	C

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ATOM	13544	O	GLY	D	16	18.415	-42.004	-46.388	1.00	24.84	D O
ATOM	13546	N	ASP	D	17	19.778	-41.054	-44.895	1.00	27.51	D N
ATOM	13547	CA	ASP	D	17	19.919	-39.818	-45.685	1.00	26.21	D C
ATOM	13549	CB	ASP	D	17	20.653	-38.715	-44.903	1.00	25.90	D C
ATOM	13552	CG	ASP	D	17	19.813	-38.096	-43.823	1.00	27.62	D C
ATOM	13553	OD1	ASP	D	17	18.591	-38.364	-43.764	1.00	39.37	D O
ATOM	13554	OD2	ASP	D	17	20.381	-37.334	-43.016	1.00	29.26	D O
ATOM	13555	C	ASP	D	17	20.666	-40.040	-47.011	1.00	26.68	D C
ATOM	13556	O	ASP	D	17	21.462	-40.975	-47.147	1.00	30.93	D O
ATOM	13558	N	ARG	D	18	20.385	-39.163	-47.970	1.00	27.18	D N
ATOM	13559	CA	ARG	D	18	21.147	-39.054	-49.195	1.00	26.36	D C
ATOM	13561	CB	ARG	D	18	20.319	-38.510	-50.340	1.00	27.00	D C
ATOM	13564	CG	ARG	D	18	21.175	-38.357	-51.619	1.00	30.93	D C
ATOM	13567	CD	ARG	D	18	20.426	-37.813	-52.760	1.00	34.70	D C
ATOM	13570	NE	ARG	D	18	19.295	-38.674	-53.084	1.00	44.15	D N
ATOM	13572	CZ	ARG	D	18	18.244	-38.290	-53.801	1.00	43.90	D C
ATOM	13573	NH1	ARG	D	18	18.181	-37.055	-54.301	1.00	43.67	D N
ATOM	13576	NH2	ARG	D	18	17.255	-39.152	-54.021	1.00	39.28	D N
ATOM	13579	C	ARG	D	18	22.348	-38.143	-48.974	1.00	25.60	D C
ATOM	13580	O	ARG	D	18	22.212	-36.959	-48.602	1.00	27.50	D O
ATOM	13582	N	VAL	D	19	23.516	-38.729	-49.216	1.00	23.65	D N
ATOM	13583	CA	VAL	D	19	24.813	-38.084	-49.111	1.00	24.05	D C
ATOM	13585	CB	VAL	D	19	25.843	-39.040	-48.431	1.00	21.27	D C
ATOM	13587	CG1	VAL	D	19	27.280	-38.567	-48.644	1.00	23.14	D C
ATOM	13591	CG2	VAL	D	19	25.529	-39.218	-46.928	1.00	18.30	D C
ATOM	13595	C	VAL	D	19	25.241	-37.818	-50.552	1.00	21.67	D C
ATOM	13596	O	VAL	D	19	25.174	-38.708	-51.372	1.00	20.46	D O
ATOM	13598	N	THR	D	20	25.629	-36.588	-50.864	1.00	27.05	D N
ATOM	13599	CA	THR	D	20	26.116	-36.252	-52.209	1.00	23.42	D C
ATOM	13601	CB	THR	D	20	25.155	-35.312	-52.981	1.00	25.07	D C
ATOM	13603	OG1	THR	D	20	24.894	-34.150	-52.213	1.00	38.55	D O
ATOM	13605	CG2	THR	D	20	23.850	-35.985	-53.301	1.00	27.26	D C
ATOM	13609	C	THR	D	20	27.517	-35.636	-52.114	1.00	24.90	D C
ATOM	13610	O	THR	D	20	27.796	-34.811	-51.223	1.00	22.86	D O
ATOM	13612	N	ILE	D	21	28.404	-36.081	-53.005	1.00	25.69	D N
ATOM	13613	CA	ILE	D	21	29.831	-35.688	-53.013	1.00	26.57	D C
ATOM	13615	CB	ILE	D	21	30.730	-36.853	-52.486	1.00	31.11	D C
ATOM	13617	CG1	ILE	D	21	30.437	-37.123	-51.009	1.00	30.64	D C
ATOM	13620	CD1	ILE	D	21	31.123	-38.390	-50.436	1.00	29.62	D C
ATOM	13624	CG2	ILE	D	21	32.210	-36.548	-52.678	1.00	26.71	D C
ATOM	13628	C	ILE	D	21	30.225	-35.312	-54.445	1.00	22.51	D C
ATOM	13629	O	ILE	D	21	29.790	-35.998	-55.385	1.00	22.54	D O
ATOM	13631	N	THR	D	22	31.004	-34.231	-54.646	1.00	26.62	D N
ATOM	13632	CA	THR	D	22	31.348	-33.813	-56.040	1.00	28.09	D C
ATOM	13634	CB	THR	D	22	30.640	-32.432	-56.461	1.00	33.03	D C
ATOM	13636	OG1	THR	D	22	31.335	-31.306	-55.944	1.00	38.54	D O
ATOM	13638	CG2	THR	D	22	29.227	-32.351	-55.955	1.00	29.38	D C
ATOM	13642	C	THR	D	22	32.866	-33.767	-56.345	1.00	26.88	D C
ATOM	13643	O	THR	D	22	33.679	-33.619	-55.456	1.00	23.25	D O
ATOM	13645	N	CYS	D	23	33.222	-33.920	-57.619	1.00	27.11	D N
ATOM	13646	CA	CYS	D	23	34.543	-33.626	-58.100	1.00	29.52	D C
ATOM	13648	CB	CYS	D	23	35.399	-34.892	-58.354	1.00	32.01	D C
ATOM	13651	SG	CYS	D	23	36.043	-35.430	-56.782	1.00	51.73	D S
ATOM	13653	C	CYS	D	23	34.389	-32.812	-59.340	1.00	24.57	D C
ATOM	13654	O	CYS	D	23	33.763	-33.270	-60.293	1.00	25.41	D O
ATOM	13656	N	ILE	D	24	34.950	-31.604	-59.325	1.00	27.70	D N
ATOM	13657	CA	ILE	D	24	35.008	-30.779	-60.520	1.00	28.71	D C
ATOM	13659	CB	ILE	D	24	34.573	-29.322	-60.256	1.00	28.50	D C
ATOM	13661	CG1	ILE	D	24	33.064	-29.176	-59.963	1.00	32.83	D C
ATOM	13664	CD1	ILE	D	24	32.521	-30.007	-58.894	1.00	38.35	D C
ATOM	13668	CG2	ILE	D	24	34.819	-28.482	-61.518	1.00	28.22	D C
ATOM	13672	C	ILE	D	24	36.450	-30.828	-61.057	1.00	32.49	D C
ATOM	13673	O	ILE	D	24	37.393	-30.727	-60.285	1.00	32.44	D O
ATOM	13675	N	THR	D	25	36.610	-30.982	-62.373	1.00	30.24	D N
ATOM	13676	CA	THR	D	25	37.925	-31.082	-62.982	1.00	29.16	D C
ATOM	13678	CB	THR	D	25	38.032	-32.313	-63.901	1.00	29.13	D C
ATOM	13680	OG1	THR	D	25	37.091	-32.209	-64.980	1.00	26.63	D O
ATOM	13682	CG2	THR	D	25	37.789	-33.588	-63.111	1.00	24.56	D C

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ATOM	13686	C	THR	D	25	38.308	-29.820	-63.762	1.00	29.07	D C
ATOM	13687	O	THR	D	25	37.431	-29.079	-64.202	1.00	30.03	D O
ATOM	13689	N	SER	D	26	39.616	-29.585	-63.938	1.00	32.08	D N
ATOM	13690	CA	SER	D	26	40.068	-28.330	-64.567	1.00	36.35	D C
ATOM	13692	CB	SER	D	26	41.580	-28.012	-64.335	1.00	40.56	D C
ATOM	13695	OG	SER	D	26	42.504	-29.051	-64.675	1.00	38.34	D O
ATOM	13697	C	SER	D	26	39.687	-28.294	-66.037	1.00	39.18	D C
ATOM	13698	O	SER	D	26	39.505	-27.218	-66.613	1.00	46.60	D O
ATOM	13700	N	THR	D	27	39.522	-29.476	-66.617	1.00	36.43	D N
ATOM	13701	CA	THR	D	27	39.239	-29.620	-68.032	1.00	34.46	D C
ATOM	13703	CB	THR	D	27	40.579	-29.829	-68.841	1.00	36.28	D C
ATOM	13705	OG1	THR	D	27	40.326	-29.660	-70.243	1.00	45.08	D O
ATOM	13707	CG2	THR	D	27	41.188	-31.179	-68.606	1.00	35.39	D C
ATOM	13711	C	THR	D	27	38.223	-30.753	-68.282	1.00	28.55	D C
ATOM	13712	O	THR	D	27	37.869	-31.508	-67.375	1.00	31.91	D O
ATOM	13714	N	ASP	D	28	37.749	-30.850	-69.517	1.00	28.66	D N
ATOM	13715	CA	ASP	D	28	36.725	-31.818	-69.869	1.00	28.99	D C
ATOM	13717	CB	ASP	D	28	36.017	-31.430	-71.182	1.00	20.71	D C
ATOM	13720	CG	ASP	D	28	34.689	-32.223	-71.410	1.00	27.85	D C
ATOM	13721	OD1	ASP	D	28	33.584	-31.650	-71.254	1.00	29.94	D O
ATOM	13722	OD2	ASP	D	28	34.740	-33.427	-71.719	1.00	27.91	D O
ATOM	13723	C	ASP	D	28	37.343	-33.209	-69.973	1.00	27.05	D C
ATOM	13724	O	ASP	D	28	38.277	-33.408	-70.735	1.00	31.78	D O
ATOM	13726	N	ILE	D	29	36.785	-34.170	-69.239	1.00	24.21	D N
ATOM	13727	CA	ILE	D	29	37.358	-35.514	-69.183	1.00	23.76	D C
ATOM	13729	CB	ILE	D	29	37.950	-35.824	-67.763	1.00	18.28	D C
ATOM	13731	CG1	ILE	D	29	36.882	-35.862	-66.682	1.00	22.62	D C
ATOM	13734	CD1	ILE	D	29	37.255	-36.886	-65.550	1.00	22.33	D C
ATOM	13738	CG2	ILE	D	29	39.036	-34.837	-67.429	1.00	13.90	D C
ATOM	13742	C	ILE	D	29	36.425	-36.635	-69.614	1.00	27.66	D C
ATOM	13743	O	ILE	D	29	36.694	-37.809	-69.335	1.00	31.60	D O
ATOM	13745	N	ASP	D	30	35.325	-36.264	-70.272	1.00	28.90	D N
ATOM	13746	CA	ASP	D	30	34.296	-37.195	-70.710	1.00	24.76	D C
ATOM	13748	CB	ASP	D	30	34.872	-38.119	-71.786	1.00	24.79	D C
ATOM	13751	CG	ASP	D	30	35.525	-37.347	-72.894	1.00	21.67	D C
ATOM	13752	OD1	ASP	D	30	34.797	-36.665	-73.623	1.00	23.19	D O
ATOM	13753	OD2	ASP	D	30	36.767	-37.391	-73.049	1.00	33.85	D O
ATOM	13754	C	ASP	D	30	33.701	-37.902	-69.504	1.00	27.74	D C
ATOM	13755	O	ASP	D	30	33.231	-37.235	-68.587	1.00	25.51	D O
ATOM	13757	N	ASP	D	31	33.702	-39.231	-69.474	1.00	25.33	D N
ATOM	13758	CA	ASP	D	31	33.083	-39.952	-68.342	1.00	30.45	D C
ATOM	13760	CB	ASP	D	31	32.075	-40.977	-68.879	1.00	34.21	D C
ATOM	13763	CG	ASP	D	31	32.697	-41.927	-69.879	1.00	39.14	D C
ATOM	13764	OD1	ASP	D	31	33.859	-41.677	-70.285	1.00	39.74	D O
ATOM	13765	OD2	ASP	D	31	32.050	-42.918	-70.266	1.00	47.57	D O
ATOM	13766	C	ASP	D	31	34.133	-40.639	-67.439	1.00	29.18	D C
ATOM	13767	O	ASP	D	31	33.796	-41.460	-66.586	1.00	29.06	D O
ATOM	13769	N	ASP	D	32	35.399	-40.248	-67.602	1.00	27.83	D N
ATOM	13770	CA	ASP	D	32	36.530	-40.943	-67.012	1.00	26.56	D C
ATOM	13772	CB	ASP	D	32	37.769	-40.717	-67.871	1.00	24.54	D C
ATOM	13775	CG	ASP	D	32	37.671	-41.412	-69.206	1.00	26.39	D C
ATOM	13776	OD1	ASP	D	32	37.534	-42.644	-69.203	1.00	29.06	D O
ATOM	13777	OD2	ASP	D	32	37.731	-40.747	-70.249	1.00	29.32	D O
ATOM	13778	C	ASP	D	32	36.785	-40.541	-65.558	1.00	21.42	D C
ATOM	13779	O	ASP	D	32	37.847	-40.061	-65.200	1.00	13.97	D O
ATOM	13781	N	MET	D	33	35.780	-40.766	-64.723	1.00	27.01	D N
ATOM	13782	CA	MET	D	33	35.858	-40.471	-63.310	1.00	24.32	D C
ATOM	13784	CB	MET	D	33	34.774	-39.476	-62.915	1.00	25.82	D C
ATOM	13787	CG	MET	D	33	34.789	-39.026	-61.441	1.00	19.73	D C
ATOM	13790	SD	MET	D	33	36.361	-38.333	-60.880	1.00	28.62	D S
ATOM	13791	CE	MET	D	33	36.511	-36.793	-61.766	1.00	26.84	D C
ATOM	13795	C	MET	D	33	35.637	-41.762	-62.547	1.00	28.66	D C
ATOM	13796	O	MET	D	33	34.733	-42.538	-62.860	1.00	36.36	D O
ATOM	13798	N	ASN	D	34	36.426	-41.938	-61.500	1.00	28.11	D N
ATOM	13799	CA	ASN	D	34	36.346	-43.093	-60.639	1.00	21.47	D C
ATOM	13801	CB	ASN	D	34	37.655	-43.876	-60.702	1.00	21.22	D C
ATOM	13804	CG	ASN	D	34	38.053	-44.231	-62.136	1.00	19.56	D C
ATOM	13805	OD1	ASN	D	34	37.768	-45.311	-62.612	1.00	21.13	D O

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ATOM	13806	ND2	ASN	D	34	38.667	-43.291	-62.824	1.00	15.44	D N
ATOM	13809	C	ASN	D	34	36.084	-42.643	-59.208	1.00	18.56	D C
ATOM	13810	O	ASN	D	34	36.369	-41.523	-58.837	1.00	25.59	D O
ATOM	13812	N	TRP	D	35	35.564	-43.541	-58.399	1.00	20.95	D N
ATOM	13813	CA	TRP	D	35	35.350	-43.236	-56.985	1.00	18.24	D C
ATOM	13815	CB	TRP	D	35	33.878	-42.956	-56.716	1.00	22.65	D C
ATOM	13818	CG	TRP	D	35	33.393	-41.721	-57.362	1.00	23.75	D C
ATOM	13819	CD1	TRP	D	35	32.830	-41.621	-58.579	1.00	23.33	D C
ATOM	13821	NE1	TRP	D	35	32.487	-40.334	-58.833	1.00	23.97	D N
ATOM	13823	CE2	TRP	D	35	32.822	-39.558	-57.761	1.00	24.90	D C
ATOM	13824	CD2	TRP	D	35	33.401	-40.404	-56.810	1.00	23.96	D C
ATOM	13825	CE3	TRP	D	35	33.828	-39.863	-55.595	1.00	27.35	D C
ATOM	13827	CZ3	TRP	D	35	33.678	-38.500	-55.390	1.00	25.24	D C
ATOM	13829	CH2	TRP	D	35	33.118	-37.677	-56.376	1.00	24.10	D C
ATOM	13831	CZ2	TRP	D	35	32.678	-38.181	-57.559	1.00	21.08	D C
ATOM	13833	C	TRP	D	35	35.771	-44.393	-56.164	1.00	17.08	D C
ATOM	13834	O	TRP	D	35	35.351	-45.532	-56.442	1.00	19.35	D O
ATOM	13836	N	TYR	D	36	36.589	-44.096	-55.153	1.00	21.50	D N
ATOM	13837	CA	TYR	D	36	37.095	-45.067	-54.199	1.00	22.21	D C
ATOM	13839	CB	TYR	D	36	38.628	-44.988	-54.098	1.00	26.01	D C
ATOM	13842	CG	TYR	D	36	39.397	-45.388	-55.322	1.00	24.74	D C
ATOM	13843	CD1	TYR	D	36	40.007	-46.640	-55.395	1.00	25.44	D C
ATOM	13845	CE1	TYR	D	36	40.726	-47.025	-56.498	1.00	24.30	D C
ATOM	13847	CZ	TYR	D	36	40.866	-46.176	-57.569	1.00	24.66	D C
ATOM	13848	OH	TYR	D	36	41.607	-46.627	-58.641	1.00	26.35	D O
ATOM	13850	CE2	TYR	D	36	40.287	-44.916	-57.544	1.00	24.23	D C
ATOM	13852	CD2	TYR	D	36	39.545	-44.520	-56.408	1.00	26.43	D C
ATOM	13854	C	TYR	D	36	36.554	-44.794	-52.802	1.00	22.90	D C
ATOM	13855	O	TYR	D	36	36.283	-43.652	-52.434	1.00	22.53	D O
ATOM	13857	N	GLN	D	37	36.434	-45.868	-52.029	1.00	23.80	D N
ATOM	13858	CA	GLN	D	37	36.139	-45.816	-50.600	1.00	24.57	D C
ATOM	13860	CB	GLN	D	37	34.910	-46.693	-50.318	1.00	25.51	D C
ATOM	13863	CG	GLN	D	37	34.398	-46.722	-48.883	1.00	26.28	D C
ATOM	13866	CD	GLN	D	37	33.468	-47.905	-48.651	1.00	24.39	D C
ATOM	13867	OE1	GLN	D	37	33.829	-49.048	-48.928	1.00	24.49	D O
ATOM	13868	NE2	GLN	D	37	32.250	-47.629	-48.191	1.00	25.14	D N
ATOM	13871	C	GLN	D	37	37.362	-46.338	-49.845	1.00	26.54	D C
ATOM	13872	O	GLN	D	37	38.028	-47.293	-50.290	1.00	26.31	D O
ATOM	13874	N	GLN	D	38	37.691	-45.695	-48.731	1.00	24.41	D N
ATOM	13875	CA	GLN	D	38	38.710	-46.208	-47.832	1.00	27.86	D C
ATOM	13877	CB	GLN	D	38	40.043	-45.479	-48.021	1.00	29.31	D C
ATOM	13880	CG	GLN	D	38	41.189	-46.099	-47.216	1.00	26.56	D C
ATOM	13883	CD	GLN	D	38	42.511	-45.403	-47.455	1.00	28.84	D C
ATOM	13884	OE1	GLN	D	38	43.557	-46.038	-47.583	1.00	27.15	D O
ATOM	13885	NE2	GLN	D	38	42.465	-44.097	-47.524	1.00	24.65	D N
ATOM	13888	C	GLN	D	38	38.298	-46.091	-46.373	1.00	28.26	D C
ATOM	13889	O	GLN	D	38	38.010	-45.007	-45.887	1.00	29.09	D O
ATOM	13891	N	LYS	D	39	38.289	-47.224	-45.686	1.00	31.58	D N
ATOM	13892	CA	LYS	D	39	38.109	-47.257	-44.245	1.00	37.31	D C
ATOM	13894	CB	LYS	D	39	37.285	-48.476	-43.866	1.00	40.00	D C
ATOM	13897	CG	LYS	D	39	35.930	-48.488	-44.573	1.00	40.40	D C
ATOM	13900	CD	LYS	D	39	35.001	-49.492	-43.955	1.00	41.69	D C
ATOM	13903	CE	LYS	D	39	33.662	-49.530	-44.655	1.00	43.81	D C
ATOM	13906	NZ	LYS	D	39	32.720	-50.444	-43.930	1.00	45.82	D N
ATOM	13910	C	LYS	D	39	39.479	-47.223	-43.564	1.00	39.96	D C
ATOM	13911	O	LYS	D	39	40.495	-47.569	-44.189	1.00	35.82	D O
ATOM	13913	N	PRO	D	40	39.522	-46.787	-42.289	1.00	42.77	D N
ATOM	13914	CA	PRO	D	40	40.769	-46.355	-41.638	1.00	44.48	D C
ATOM	13916	CB	PRO	D	40	40.305	-45.976	-40.223	1.00	47.51	D C
ATOM	13919	CG	PRO	D	40	38.860	-45.650	-40.399	1.00	45.42	D C
ATOM	13922	CD	PRO	D	40	38.387	-46.671	-41.359	1.00	45.74	D C
ATOM	13925	C	PRO	D	40	41.902	-47.381	-41.587	1.00	44.02	D C
ATOM	13926	O	PRO	D	40	43.073	-47.002	-41.605	1.00	49.61	D O
ATOM	13927	N	GLY	D	41	41.575	-48.661	-41.535	1.00	38.33	D N
ATOM	13928	CA	GLY	D	41	42.627	-49.669	-41.486	1.00	43.53	D C
ATOM	13931	C	GLY	D	41	42.995	-50.259	-42.832	1.00	40.36	D C
ATOM	13932	O	GLY	D	41	43.975	-50.986	-42.940	1.00	43.33	D O
ATOM	13934	N	LYS	D	42	42.230	-49.914	-43.858	1.00	38.03	D N

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ATOM	13935	CA	LYS	D	42	42.079	-50.757	-45.027	1.00	37.97	D	C
ATOM	13937	CB	LYS	D	42	40.588	-51.092	-45.194	1.00	44.93	D	C
ATOM	13940	CG	LYS	D	42	39.902	-51.622	-43.907	1.00	46.57	D	C
ATOM	13943	CD	LYS	D	42	38.492	-52.194	-44.185	1.00	48.07	D	C
ATOM	13946	CE	LYS	D	42	37.761	-52.618	-42.870	1.00	51.72	D	C
ATOM	13949	NZ	LYS	D	42	36.239	-52.680	-42.963	1.00	49.90	D	N
ATOM	13953	C	LYS	D	42	42.620	-50.123	-46.305	1.00	30.72	D	C
ATOM	13954	O	LYS	D	42	42.899	-48.937	-46.350	1.00	31.81	D	O
ATOM	13956	N	VAL	D	43	42.746	-50.945	-47.340	1.00	31.34	D	N
ATOM	13957	CA	VAL	D	43	43.212	-50.524	-48.644	1.00	31.02	D	C
ATOM	13959	CB	VAL	D	43	43.834	-51.721	-49.427	1.00	31.82	D	C
ATOM	13961	CG1	VAL	D	43	44.248	-51.339	-50.827	1.00	34.86	D	C
ATOM	13965	CG2	VAL	D	43	45.040	-52.228	-48.705	1.00	34.60	D	C
ATOM	13969	C	VAL	D	43	42.048	-49.851	-49.384	1.00	29.76	D	C
ATOM	13970	O	VAL	D	43	40.872	-50.098	-49.076	1.00	30.34	D	O
ATOM	13972	N	PRO	D	44	42.360	-48.895	-50.274	1.00	30.43	D	N
ATOM	13973	CA	PRO	D	44	41.251	-48.331	-51.029	1.00	28.97	D	C
ATOM	13975	CB	PRO	D	44	41.911	-47.224	-51.859	1.00	27.75	D	C
ATOM	13978	CG	PRO	D	44	43.126	-46.884	-51.110	1.00	31.17	D	C
ATOM	13981	CD	PRO	D	44	43.617	-48.184	-50.558	1.00	28.40	D	C
ATOM	13984	C	PRO	D	44	40.547	-49.371	-51.892	1.00	22.98	D	C
ATOM	13985	O	PRO	D	44	41.193	-50.285	-52.436	1.00	27.14	D	O
ATOM	13986	N	LYS	D	45	39.225	-49.223	-51.964	1.00	28.18	D	N
ATOM	13987	CA	LYS	D	45	38.309	-50.041	-52.767	1.00	31.51	D	C
ATOM	13989	CB	LYS	D	45	37.226	-50.628	-51.855	1.00	34.90	D	C
ATOM	13992	CG	LYS	D	45	36.322	-51.678	-52.463	1.00	37.11	D	C
ATOM	13995	CD	LYS	D	45	35.368	-52.206	-51.370	1.00	40.72	D	C
ATOM	13998	CE	LYS	D	45	34.075	-52.858	-51.910	1.00	43.90	D	C
ATOM	14001	NZ	LYS	D	45	32.936	-52.807	-50.887	1.00	45.13	D	N
ATOM	14005	C	LYS	D	45	37.654	-49.155	-53.830	1.00	27.81	D	C
ATOM	14006	O	LYS	D	45	37.020	-48.158	-53.495	1.00	25.67	D	O
ATOM	14008	N	LEU	D	46	37.823	-49.518	-55.106	1.00	21.45	D	N
ATOM	14009	CA	LEU	D	46	37.117	-48.861	-56.200	1.00	24.98	D	C
ATOM	14011	CB	LEU	D	46	37.763	-49.178	-57.545	1.00	16.53	D	C
ATOM	14014	CG	LEU	D	46	37.211	-48.458	-58.767	1.00	21.09	D	C
ATOM	14016	CD1	LEU	D	46	37.386	-47.011	-58.612	1.00	23.73	D	C
ATOM	14020	CD2	LEU	D	46	37.947	-48.879	-59.986	1.00	18.78	D	C
ATOM	14024	C	LEU	D	46	35.646	-49.306	-56.201	1.00	27.40	D	C
ATOM	14025	O	LEU	D	46	35.335	-50.508	-56.293	1.00	24.52	D	O
ATOM	14027	N	LEU	D	47	34.754	-48.320	-56.082	1.00	24.57	D	N
ATOM	14028	CA	LEU	D	47	33.320	-48.555	-56.054	1.00	26.84	D	C
ATOM	14030	CB	LEU	D	47	32.681	-47.637	-55.027	1.00	24.47	D	C
ATOM	14033	CG	LEU	D	47	32.997	-47.834	-53.547	1.00	24.27	D	C
ATOM	14035	CD1	LEU	D	47	31.893	-47.247	-52.725	1.00	22.16	D	C
ATOM	14039	CD2	LEU	D	47	33.164	-49.286	-53.187	1.00	21.79	D	C
ATOM	14043	C	LEU	D	47	32.660	-48.306	-57.411	1.00	28.13	D	C
ATOM	14044	O	LEU	D	47	31.813	-49.087	-57.867	1.00	30.53	D	O
ATOM	14046	N	ILE	D	48	33.026	-47.185	-58.014	1.00	27.03	D	N
ATOM	14047	CA	ILE	D	48	32.441	-46.699	-59.258	1.00	25.86	D	C
ATOM	14049	CB	ILE	D	48	31.666	-45.385	-59.071	1.00	23.02	D	C
ATOM	14051	CG1	ILE	D	48	30.579	-45.480	-57.982	1.00	26.89	D	C
ATOM	14054	CD1	ILE	D	48	29.472	-46.399	-58.247	1.00	23.66	D	C
ATOM	14058	CG2	ILE	D	48	31.099	-44.886	-60.408	1.00	24.89	D	C
ATOM	14062	C	ILE	D	48	33.611	-46.370	-60.167	1.00	22.34	D	C
ATOM	14063	O	ILE	D	48	34.566	-45.739	-59.730	1.00	31.22	D	O
ATOM	14065	N	SER	D	49	33.534	-46.793	-61.419	1.00	22.90	D	N
ATOM	14066	CA	SER	D	49	34.565	-46.470	-62.422	1.00	24.91	D	C
ATOM	14068	CB	SER	D	49	35.225	-47.759	-62.898	1.00	23.68	D	C
ATOM	14071	OG	SER	D	49	34.286	-48.614	-63.519	1.00	29.51	D	O
ATOM	14073	C	SER	D	49	33.980	-45.690	-63.605	1.00	27.66	D	C
ATOM	14074	O	SER	D	49	32.820	-45.292	-63.578	1.00	22.43	D	O
ATOM	14076	N	GLY	D	50	34.785	-45.467	-64.645	1.00	27.77	D	N
ATOM	14077	CA	GLY	D	50	34.400	-44.606	-65.753	1.00	24.55	D	C
ATOM	14080	C	GLY	D	50	33.040	-44.954	-66.303	1.00	30.19	D	C
ATOM	14081	O	GLY	D	50	32.669	-46.124	-66.328	1.00	38.06	D	O
ATOM	14083	N	GLY	D	51	32.291	-43.941	-66.728	1.00	28.78	D	N
ATOM	14084	CA	GLY	D	51	30.933	-44.131	-67.270	1.00	28.38	D	C
ATOM	14087	C	GLY	D	51	29.881	-44.310	-66.188	1.00	27.91	D	C

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ATOM	14088	O	GLY	D	51	28.766	-44.781	-66.455	1.00	26.87	D	O
ATOM	14090	N	ASN	D	52	30.251	-43.935	-64.967	1.00	30.53	D	N
ATOM	14091	CA	ASN	D	52	29.437	-44.166	-63.782	1.00	29.12	D	C
ATOM	14093	CB	ASN	D	52	28.248	-43.214	-63.829	1.00	34.31	D	C
ATOM	14096	CG	ASN	D	52	28.694	-41.765	-63.733	1.00	36.82	D	C
ATOM	14097	OD1	ASN	D	52	29.440	-41.427	-62.824	1.00	40.42	D	O
ATOM	14098	ND2	ASN	D	52	28.273	-40.913	-64.686	1.00	33.25	D	N
ATOM	14101	C	ASN	D	52	29.051	-45.645	-63.585	1.00	30.61	D	C
ATOM	14102	O	ASN	D	52	27.912	-45.974	-63.238	1.00	33.36	D	O
ATOM	14104	N	THR	D	53	30.043	-46.522	-63.784	1.00	22.05	D	N
ATOM	14105	CA	THR	D	53	29.863	-47.979	-63.793	1.00	20.62	D	C
ATOM	14107	CB	THR	D	53	30.896	-48.631	-64.758	1.00	22.22	D	C
ATOM	14109	OG1	THR	D	53	30.714	-48.078	-66.057	1.00	26.58	D	O
ATOM	14111	CG2	THR	D	53	30.791	-50.175	-64.830	1.00	19.41	D	C
ATOM	14115	C	THR	D	53	30.067	-48.515	-62.371	1.00	24.84	D	C
ATOM	14116	O	THR	D	53	31.184	-48.513	-61.856	1.00	25.16	D	O
ATOM	14118	N	LEU	D	54	28.977	-48.948	-61.739	1.00	27.31	D	N
ATOM	14119	CA	LEU	D	54	29.027	-49.594	-60.428	1.00	29.35	D	C
ATOM	14121	CB	LEU	D	54	27.598	-49.808	-59.907	1.00	28.32	D	C
ATOM	14124	CG	LEU	D	54	27.398	-50.299	-58.474	1.00	25.72	D	C
ATOM	14126	CD1	LEU	D	54	27.834	-49.269	-57.444	1.00	24.93	D	C
ATOM	14130	CD2	LEU	D	54	25.952	-50.637	-58.284	1.00	29.74	D	C
ATOM	14134	C	LEU	D	54	29.771	-50.927	-60.530	1.00	29.32	D	C
ATOM	14135	O	LEU	D	54	29.413	-51.776	-61.340	1.00	28.60	D	O
ATOM	14137	N	ARG	D	55	30.829	-51.104	-59.740	1.00	31.51	D	N
ATOM	14138	CA	ARG	D	55	31.553	-52.375	-59.738	1.00	33.30	D	C
ATOM	14140	CB	ARG	D	55	32.850	-52.277	-58.928	1.00	40.35	D	C
ATOM	14143	CG	ARG	D	55	33.912	-51.333	-59.501	1.00	44.95	D	C
ATOM	14146	CD	ARG	D	55	34.178	-51.515	-61.024	1.00	46.02	D	C
ATOM	14149	NE	ARG	D	55	35.576	-51.228	-61.345	1.00	48.65	D	N
ATOM	14151	CZ	ARG	D	55	36.140	-51.346	-62.548	1.00	49.14	D	C
ATOM	14152	NH1	ARG	D	55	35.425	-51.741	-63.593	1.00	54.73	D	N
ATOM	14155	NH2	ARG	D	55	37.427	-51.061	-62.709	1.00	46.65	D	N
ATOM	14158	C	ARG	D	55	30.715	-53.522	-59.174	1.00	32.58	D	C
ATOM	14159	O	ARG	D	55	29.976	-53.326	-58.215	1.00	34.68	D	O
ATOM	14161	N	PRO	D	56	30.843	-54.736	-59.759	1.00	36.36	D	N
ATOM	14162	CA	PRO	D	56	30.186	-55.933	-59.233	1.00	35.21	D	C
ATOM	14164	CB	PRO	D	56	30.855	-57.065	-60.016	1.00	38.48	D	C
ATOM	14167	CG	PRO	D	56	31.165	-56.452	-61.319	1.00	39.04	D	C
ATOM	14170	CD	PRO	D	56	31.581	-55.040	-60.999	1.00	37.26	D	C
ATOM	14173	C	PRO	D	56	30.393	-56.128	-57.732	1.00	35.33	D	C
ATOM	14174	O	PRO	D	56	31.528	-56.135	-57.265	1.00	36.15	D	O
ATOM	14175	N	GLY	D	57	29.299	-56.266	-56.993	1.00	26.46	D	N
ATOM	14176	CA	GLY	D	57	29.378	-56.521	-55.566	1.00	31.17	D	C
ATOM	14179	C	GLY	D	57	29.219	-55.302	-54.683	1.00	29.16	D	C
ATOM	14180	O	GLY	D	57	29.114	-55.441	-53.466	1.00	34.16	D	O
ATOM	14182	N	VAL	D	58	29.219	-54.111	-55.291	1.00	34.24	D	N
ATOM	14183	CA	VAL	D	58	29.083	-52.851	-54.562	1.00	29.71	D	C
ATOM	14185	CB	VAL	D	58	29.877	-51.698	-55.235	1.00	28.16	D	C
ATOM	14187	CG1	VAL	D	58	29.707	-50.394	-54.454	1.00	19.29	D	C
ATOM	14191	CG2	VAL	D	58	31.369	-52.075	-55.322	1.00	25.50	D	C
ATOM	14195	C	VAL	D	58	27.588	-52.560	-54.463	1.00	31.44	D	C
ATOM	14196	O	VAL	D	58	26.861	-52.688	-55.459	1.00	29.45	D	O
ATOM	14198	N	PRO	D	59	27.098	-52.260	-53.245	1.00	29.19	D	N
ATOM	14199	CA	PRO	D	59	25.680	-52.036	-53.071	1.00	28.16	D	C
ATOM	14201	CB	PRO	D	59	25.588	-51.629	-51.606	1.00	27.76	D	C
ATOM	14204	CG	PRO	D	59	26.683	-52.323	-50.998	1.00	28.56	D	C
ATOM	14207	CD	PRO	D	59	27.792	-52.181	-51.954	1.00	29.87	D	C
ATOM	14210	C	PRO	D	59	25.098	-50.969	-53.992	1.00	26.31	D	C
ATOM	14211	O	PRO	D	59	25.759	-49.984	-54.310	1.00	29.09	D	O
ATOM	14212	N	SER	D	60	23.859	-51.177	-54.416	1.00	29.56	D	N
ATOM	14213	CA	SER	D	60	23.217	-50.340	-55.423	1.00	29.02	D	C
ATOM	14215	CB	SER	D	60	21.908	-51.004	-55.897	1.00	38.41	D	C
ATOM	14218	OG	SER	D	60	21.134	-51.460	-54.786	1.00	42.50	D	O
ATOM	14220	C	SER	D	60	22.935	-48.919	-54.952	1.00	30.03	D	C
ATOM	14221	O	SER	D	60	22.784	-48.024	-55.783	1.00	24.17	D	O
ATOM	14223	N	ARG	D	61	22.871	-48.698	-53.632	1.00	26.60	D	N
ATOM	14224	CA	ARG	D	61	22.708	-47.343	-53.100	1.00	26.75	D	C

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ATOM	14226	CB	ARG	D	61	22.591	-47.364	-51.581	1.00	28.78	D C
ATOM	14229	CG	ARG	D	61	23.774	-47.952	-50.885	1.00	31.92	D C
ATOM	14232	CD	ARG	D	61	23.630	-47.815	-49.400	1.00	32.72	D C
ATOM	14235	NE	ARG	D	61	24.797	-48.355	-48.726	1.00	36.88	D N
ATOM	14237	CZ	ARG	D	61	24.948	-49.627	-48.372	1.00	38.14	D C
ATOM	14238	NH1	ARG	D	61	24.016	-50.533	-48.648	1.00	44.10	D N
ATOM	14241	NH2	ARG	D	61	26.056	-50.001	-47.754	1.00	34.40	D N
ATOM	14244	C	ARG	D	61	23.842	-46.400	-53.516	1.00	23.75	D C
ATOM	14245	O	ARG	D	61	23.699	-45.185	-53.459	1.00	24.94	D O
ATOM	14247	N	PHE	D	62	24.971	-46.967	-53.927	1.00	30.31	D N
ATOM	14248	CA	PHE	D	62	26.062	-46.197	-54.486	1.00	26.78	D C
ATOM	14250	CB	PHE	D	62	27.391	-46.933	-54.285	1.00	28.56	D C
ATOM	14253	CG	PHE	D	62	27.852	-46.959	-52.861	1.00	27.28	D C
ATOM	14254	CD1	PHE	D	62	28.552	-45.890	-52.339	1.00	27.71	D C
ATOM	14256	CE1	PHE	D	62	28.970	-45.906	-51.027	1.00	29.22	D C
ATOM	14258	CZ	PHE	D	62	28.710	-47.001	-50.237	1.00	28.43	D C
ATOM	14260	CE2	PHE	D	62	28.025	-48.076	-50.747	1.00	26.39	D C
ATOM	14262	CD2	PHE	D	62	27.598	-48.053	-52.051	1.00	25.00	D C
ATOM	14264	C	PHE	D	62	25.825	-45.959	-55.975	1.00	30.49	D C
ATOM	14265	O	PHE	D	62	25.576	-46.893	-56.733	1.00	35.90	D O
ATOM	14267	N	SER	D	63	25.912	-44.706	-56.400	1.00	32.22	D N
ATOM	14268	CA	SER	D	63	25.820	-44.401	-57.814	1.00	26.18	D C
ATOM	14270	CB	SER	D	63	24.358	-44.259	-58.243	1.00	28.90	D C
ATOM	14273	OG	SER	D	63	23.772	-43.095	-57.709	1.00	28.18	D O
ATOM	14275	C	SER	D	63	26.570	-43.148	-58.113	1.00	27.36	D C
ATOM	14276	O	SER	D	63	26.681	-42.262	-57.265	1.00	24.28	D O
ATOM	14278	N	GLY	D	64	27.107	-43.085	-59.328	1.00	24.83	D N
ATOM	14279	CA	GLY	D	64	27.759	-41.900	-59.831	1.00	25.07	D C
ATOM	14282	C	GLY	D	64	26.955	-41.245	-60.937	1.00	27.82	D C
ATOM	14283	O	GLY	D	64	26.152	-41.899	-61.604	1.00	29.25	D O
ATOM	14285	N	SER	D	65	27.197	-39.954	-61.156	1.00	28.23	D N
ATOM	14286	CA	SER	D	65	26.547	-39.210	-62.229	1.00	31.92	D C
ATOM	14288	CB	SER	D	65	25.229	-38.606	-61.751	1.00	34.45	D C
ATOM	14291	OG	SER	D	65	25.445	-37.740	-60.650	1.00	38.75	D O
ATOM	14293	C	SER	D	65	27.413	-38.074	-62.731	1.00	28.36	D C
ATOM	14294	O	SER	D	65	28.176	-37.502	-61.988	1.00	22.28	D O
ATOM	14296	N	GLY	D	66	27.250	-37.732	-64.000	1.00	28.51	D N
ATOM	14297	CA	GLY	D	66	27.882	-36.556	-64.539	1.00	28.37	D C
ATOM	14300	C	GLY	D	66	28.931	-36.939	-65.529	1.00	26.52	D C
ATOM	14301	O	GLY	D	66	29.410	-38.063	-65.539	1.00	35.55	D O
ATOM	14303	N	SER	D	67	29.241	-36.001	-66.408	1.00	21.98	D N
ATOM	14304	CA	SER	D	67	30.272	-36.209	-67.395	1.00	29.87	D C
ATOM	14306	CB	SER	D	67	29.744	-37.081	-68.546	1.00	28.03	D C
ATOM	14309	OG	SER	D	67	29.027	-36.318	-69.495	1.00	33.55	D O
ATOM	14311	C	SER	D	67	30.759	-34.827	-67.842	1.00	25.47	D C
ATOM	14312	O	SER	D	67	30.026	-33.858	-67.765	1.00	37.07	D O
ATOM	14314	N	GLY	D	68	32.008	-34.734	-68.253	1.00	30.12	D N
ATOM	14315	CA	GLY	D	68	32.576	-33.477	-68.703	1.00	30.71	D C
ATOM	14318	C	GLY	D	68	33.501	-33.029	-67.621	1.00	24.62	D C
ATOM	14319	O	GLY	D	68	34.577	-33.566	-67.497	1.00	27.36	D O
ATOM	14321	N	THR	D	69	33.060	-32.068	-66.813	1.00	29.97	D N
ATOM	14322	CA	THR	D	69	33.871	-31.529	-65.716	1.00	26.63	D C
ATOM	14324	CB	THR	D	69	34.061	-30.007	-65.837	1.00	29.25	D C
ATOM	14326	OG1	THR	D	69	32.792	-29.361	-65.695	1.00	22.95	D O
ATOM	14328	CG2	THR	D	69	34.760	-29.591	-67.182	1.00	20.12	D C
ATOM	14332	C	THR	D	69	33.263	-31.771	-64.336	1.00	26.86	D C
ATOM	14333	O	THR	D	69	33.988	-31.723	-63.359	1.00	25.38	D O
ATOM	14335	N	ASP	D	70	31.950	-32.023	-64.271	1.00	26.49	D N
ATOM	14336	CA	ASP	D	70	31.173	-32.035	-63.022	1.00	26.27	D C
ATOM	14338	CB	ASP	D	70	29.943	-31.115	-63.135	1.00	29.07	D C
ATOM	14341	CG	ASP	D	70	30.293	-29.614	-63.281	1.00	31.26	D C
ATOM	14342	OD1	ASP	D	70	31.473	-29.209	-63.373	1.00	26.00	D O
ATOM	14343	OD2	ASP	D	70	29.333	-28.820	-63.301	1.00	32.48	D O
ATOM	14344	C	ASP	D	70	30.689	-33.450	-62.652	1.00	24.36	D C
ATOM	14345	O	ASP	D	70	29.790	-34.005	-63.286	1.00	23.67	D O
ATOM	14347	N	PHE	D	71	31.261	-34.021	-61.600	1.00	24.90	D N
ATOM	14348	CA	PHE	D	71	31.010	-35.425	-61.247	1.00	22.55	D C
ATOM	14350	CB	PHE	D	71	32.288	-36.241	-61.431	1.00	19.80	D C

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ATOM	14353	CG	PHE	D	71	32.799	-36.218	-62.876	1.00	19.54	D C
ATOM	14354	CD1	PHE	D	71	32.379	-37.172	-63.790	1.00	18.61	D C
ATOM	14356	CE1	PHE	D	71	32.821	-37.148	-65.113	1.00	25.10	D C
ATOM	14358	CZ	PHE	D	71	33.718	-36.157	-65.529	1.00	20.59	D C
ATOM	14360	CE2	PHE	D	71	34.130	-35.208	-64.647	1.00	19.12	D C
ATOM	14362	CD2	PHE	D	71	33.688	-35.253	-63.291	1.00	16.91	D C
ATOM	14364	C	PHE	D	71	30.440	-35.520	-59.827	1.00	21.61	D C
ATOM	14365	O	PHE	D	71	30.752	-34.705	-58.980	1.00	28.30	D O
ATOM	14367	N	THR	D	72	29.540	-36.470	-59.613	1.00	25.78	D N
ATOM	14368	CA	THR	D	72	28.868	-36.621	-58.336	1.00	25.62	D C
ATOM	14370	CB	THR	D	72	27.432	-36.006	-58.385	1.00	23.90	D C
ATOM	14372	OG1	THR	D	72	27.495	-34.662	-58.875	1.00	25.14	D O
ATOM	14374	CG2	THR	D	72	26.783	-35.968	-57.045	1.00	24.08	D C
ATOM	14378	C	THR	D	72	28.805	-38.106	-58.009	1.00	25.39	D C
ATOM	14379	O	THR	D	72	28.464	-38.923	-58.844	1.00	27.12	D O
ATOM	14381	N	LEU	D	73	29.144	-38.423	-56.773	1.00	26.32	D N
ATOM	14382	CA	LEU	D	73	28.881	-39.699	-56.180	1.00	23.73	D C
ATOM	14384	CB	LEU	D	73	30.111	-40.174	-55.428	1.00	22.91	D C
ATOM	14387	CG	LEU	D	73	29.978	-41.318	-54.447	1.00	24.18	D C
ATOM	14389	CD1	LEU	D	73	29.655	-42.561	-55.160	1.00	19.36	D C
ATOM	14393	CD2	LEU	D	73	31.275	-41.487	-53.661	1.00	19.61	D C
ATOM	14397	C	LEU	D	73	27.760	-39.475	-55.181	1.00	24.08	D C
ATOM	14398	O	LEU	D	73	27.847	-38.587	-54.343	1.00	28.07	D O
ATOM	14400	N	THR	D	74	26.741	-40.324	-55.255	1.00	22.40	D N
ATOM	14401	CA	THR	D	74	25.577	-40.246	-54.387	1.00	28.50	D C
ATOM	14403	CB	THR	D	74	24.351	-39.945	-55.231	1.00	27.25	D C
ATOM	14405	OG1	THR	D	74	24.503	-38.624	-55.765	1.00	24.36	D O
ATOM	14407	CG2	THR	D	74	23.064	-40.034	-54.413	1.00	22.43	D C
ATOM	14411	C	THR	D	74	25.433	-41.561	-53.643	1.00	25.66	D C
ATOM	14412	O	THR	D	74	25.540	-42.606	-54.241	1.00	32.11	D O
ATOM	14414	N	ILE	D	75	25.291	-41.499	-52.326	1.00	22.22	D N
ATOM	14415	CA	ILE	D	75	24.803	-42.646	-51.549	1.00	27.18	D C
ATOM	14417	CB	ILE	D	75	25.612	-42.883	-50.224	1.00	23.69	D C
ATOM	14419	CG1	ILE	D	75	27.135	-42.724	-50.454	1.00	21.60	D C
ATOM	14422	CD1	ILE	D	75	27.970	-42.768	-49.214	1.00	24.13	D C
ATOM	14426	CG2	ILE	D	75	25.317	-44.269	-49.661	1.00	19.91	D C
ATOM	14430	C	ILE	D	75	23.331	-42.375	-51.208	1.00	29.24	D C
ATOM	14431	O	ILE	D	75	23.048	-41.487	-50.424	1.00	31.02	D O
ATOM	14433	N	SER	D	76	22.409	-43.172	-51.752	1.00	33.66	D N
ATOM	14434	CA	SER	D	76	20.962	-42.875	-51.659	1.00	32.65	D C
ATOM	14436	CB	SER	D	76	20.178	-43.680	-52.693	1.00	35.78	D C
ATOM	14439	OG	SER	D	76	20.217	-45.077	-52.399	1.00	41.64	D O
ATOM	14441	C	SER	D	76	20.354	-43.109	-50.281	1.00	33.79	D C
ATOM	14442	O	SER	D	76	19.371	-42.450	-49.900	1.00	35.88	D O
ATOM	14444	N	SER	D	77	20.923	-44.053	-49.544	1.00	33.75	D N
ATOM	14445	CA	SER	D	77	20.465	-44.364	-48.201	1.00	31.69	D C
ATOM	14447	CB	SER	D	77	19.432	-45.497	-48.225	1.00	32.75	D C
ATOM	14450	OG	SER	D	77	19.199	-45.983	-46.927	1.00	39.45	D O
ATOM	14452	C	SER	D	77	21.678	-44.758	-47.388	1.00	31.73	D C
ATOM	14453	O	SER	D	77	22.107	-45.905	-47.423	1.00	35.95	D O
ATOM	14455	N	LEU	D	78	22.217	-43.789	-46.653	1.00	28.56	D N
ATOM	14456	CA	LEU	D	78	23.472	-43.944	-45.967	1.00	29.79	D C
ATOM	14458	CB	LEU	D	78	23.908	-42.607	-45.365	1.00	29.88	D C
ATOM	14461	CG	LEU	D	78	25.254	-42.579	-44.639	1.00	28.42	D C
ATOM	14463	CD1	LEU	D	78	26.351	-42.861	-45.640	1.00	23.97	D C
ATOM	14467	CD2	LEU	D	78	25.479	-41.253	-43.933	1.00	27.13	D C
ATOM	14471	C	LEU	D	78	23.324	-44.990	-44.872	1.00	29.47	D C
ATOM	14472	O	LEU	D	78	22.466	-44.858	-44.009	1.00	26.89	D O
ATOM	14474	N	GLN	D	79	24.144	-46.040	-44.943	1.00	29.19	D N
ATOM	14475	CA	GLN	D	79	24.121	-47.110	-43.956	1.00	30.05	D C
ATOM	14477	CB	GLN	D	79	24.123	-48.497	-44.622	1.00	28.19	D C
ATOM	14480	CG	GLN	D	79	22.892	-48.854	-45.462	1.00	29.10	D C
ATOM	14483	CD	GLN	D	79	21.585	-48.584	-44.758	1.00	29.94	D C
ATOM	14484	OE1	GLN	D	79	21.339	-49.097	-43.679	1.00	29.19	D O
ATOM	14485	NE2	GLN	D	79	20.739	-47.765	-45.368	1.00	34.70	D N
ATOM	14488	C	GLN	D	79	25.341	-46.944	-43.056	1.00	30.15	D C
ATOM	14489	O	GLN	D	79	26.330	-46.336	-43.457	1.00	26.76	D O
ATOM	14491	N	PRO	D	80	25.275	-47.478	-41.830	1.00	30.40	D N

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ATOM	14492	CA	PRO	D	80	26.376	-47.363	-40.863	1.00	31.68	D	C
ATOM	14494	CB	PRO	D	80	25.945	-48.308	-39.749	1.00	31.64	D	C
ATOM	14497	CG	PRO	D	80	24.493	-48.325	-39.827	1.00	32.58	D	C
ATOM	14500	CD	PRO	D	80	24.140	-48.216	-41.261	1.00	31.88	D	C
ATOM	14503	C	PRO	D	80	27.756	-47.764	-41.399	1.00	28.99	D	C
ATOM	14504	O	PRO	D	80	28.746	-47.109	-41.092	1.00	28.58	D	O
ATOM	14505	N	GLU	D	81	27.797	-48.819	-42.205	1.00	28.68	D	N
ATOM	14506	CA	GLU	D	81	29.045	-49.340	-42.775	1.00	30.29	D	C
ATOM	14508	CB	GLU	D	81	28.845	-50.761	-43.307	1.00	28.25	D	C
ATOM	14511	CG	GLU	D	81	27.828	-50.918	-44.423	1.00	34.74	D	C
ATOM	14514	CD	GLU	D	81	26.494	-51.513	-43.965	1.00	43.46	D	C
ATOM	14515	OE1	GLU	D	81	25.899	-51.057	-42.940	1.00	40.82	D	O
ATOM	14516	OE2	GLU	D	81	26.041	-52.451	-44.654	1.00	47.54	D	O
ATOM	14517	C	GLU	D	81	29.611	-48.473	-43.895	1.00	30.45	D	C
ATOM	14518	O	GLU	D	81	30.666	-48.784	-44.443	1.00	32.05	D	O
ATOM	14520	N	ASP	D	82	28.886	-47.417	-44.257	1.00	31.69	D	N
ATOM	14521	CA	ASP	D	82	29.332	-46.470	-45.272	1.00	28.01	D	C
ATOM	14523	CB	ASP	D	82	28.118	-45.842	-45.958	1.00	32.15	D	C
ATOM	14526	CG	ASP	D	82	27.327	-46.851	-46.738	1.00	30.80	D	C
ATOM	14527	OD1	ASP	D	82	27.942	-47.847	-47.173	1.00	35.80	D	O
ATOM	14528	OD2	ASP	D	82	26.111	-46.664	-46.904	1.00	27.92	D	O
ATOM	14529	C	ASP	D	82	30.265	-45.381	-44.743	1.00	26.99	D	C
ATOM	14530	O	ASP	D	82	30.785	-44.600	-45.545	1.00	23.23	D	O
ATOM	14532	N	VAL	D	83	30.487	-45.319	-43.422	1.00	25.48	D	N
ATOM	14533	CA	VAL	D	83	31.464	-44.376	-42.878	1.00	27.11	D	C
ATOM	14535	CB	VAL	D	83	31.436	-44.223	-41.302	1.00	31.38	D	C
ATOM	14537	CG1	VAL	D	83	30.059	-43.713	-40.827	1.00	32.69	D	C
ATOM	14541	CG2	VAL	D	83	31.825	-45.494	-40.585	1.00	29.63	D	C
ATOM	14545	C	VAL	D	83	32.864	-44.748	-43.403	1.00	28.07	D	C
ATOM	14546	O	VAL	D	83	33.378	-45.855	-43.185	1.00	26.35	D	O
ATOM	14548	N	ALA	D	84	33.446	-43.807	-44.133	1.00	23.32	D	N
ATOM	14549	CA	ALA	D	84	34.720	-43.993	-44.802	1.00	25.07	D	C
ATOM	14551	CB	ALA	D	84	34.545	-44.943	-45.992	1.00	26.25	D	C
ATOM	14555	C	ALA	D	84	35.157	-42.620	-45.278	1.00	26.17	D	C
ATOM	14556	O	ALA	D	84	34.410	-41.639	-45.107	1.00	21.62	D	O
ATOM	14558	N	THR	D	85	36.360	-42.528	-45.843	1.00	24.62	D	N
ATOM	14559	CA	THR	D	85	36.709	-41.384	-46.665	1.00	21.77	D	C
ATOM	14561	CB	THR	D	85	38.121	-40.820	-46.367	1.00	20.79	D	C
ATOM	14563	OG1	THR	D	85	38.107	-40.247	-45.066	1.00	27.09	D	O
ATOM	14565	CG2	THR	D	85	38.504	-39.693	-47.343	1.00	21.26	D	C
ATOM	14569	C	THR	D	85	36.547	-41.856	-48.092	1.00	27.22	D	C
ATOM	14570	O	THR	D	85	36.887	-42.997	-48.414	1.00	17.46	D	O
ATOM	14572	N	TYR	D	86	35.962	-40.985	-48.916	1.00	28.12	D	N
ATOM	14573	CA	TYR	D	86	35.712	-41.235	-50.313	1.00	22.80	D	C
ATOM	14575	CB	TYR	D	86	34.207	-40.997	-50.614	1.00	22.25	D	C
ATOM	14578	CG	TYR	D	86	33.298	-42.037	-49.948	1.00	20.76	D	C
ATOM	14579	CD1	TYR	D	86	32.927	-43.191	-50.612	1.00	23.74	D	C
ATOM	14581	CE1	TYR	D	86	32.155	-44.176	-49.986	1.00	19.70	D	C
ATOM	14583	CZ	TYR	D	86	31.753	-43.999	-48.677	1.00	22.91	D	C
ATOM	14584	OH	TYR	D	86	30.989	-44.963	-48.036	1.00	19.15	D	O
ATOM	14586	CE2	TYR	D	86	32.128	-42.865	-48.002	1.00	21.28	D	C
ATOM	14588	CD2	TYR	D	86	32.894	-41.897	-48.627	1.00	17.54	D	C
ATOM	14590	C	TYR	D	86	36.669	-40.351	-51.142	1.00	25.73	D	C
ATOM	14591	O	TYR	D	86	36.858	-39.173	-50.817	1.00	25.01	D	O
ATOM	14593	N	TYR	D	87	37.302	-40.944	-52.165	1.00	22.30	D	N
ATOM	14594	CA	TYR	D	87	38.235	-40.245	-53.074	1.00	21.15	D	C
ATOM	14596	CB	TYR	D	87	39.681	-40.789	-52.972	1.00	22.58	D	C
ATOM	14599	CG	TYR	D	87	40.291	-40.635	-51.617	1.00	17.27	D	C
ATOM	14600	CD1	TYR	D	87	40.969	-39.470	-51.271	1.00	20.42	D	C
ATOM	14602	CE1	TYR	D	87	41.483	-39.293	-50.009	1.00	15.93	D	C
ATOM	14604	CZ	TYR	D	87	41.348	-40.303	-49.089	1.00	18.29	D	C
ATOM	14605	OH	TYR	D	87	41.854	-40.141	-47.838	1.00	21.68	D	O
ATOM	14607	CE2	TYR	D	87	40.666	-41.466	-49.394	1.00	14.46	D	C
ATOM	14609	CD2	TYR	D	87	40.146	-41.630	-50.652	1.00	17.04	D	C
ATOM	14611	C	TYR	D	87	37.809	-40.434	-54.510	1.00	20.23	D	C
ATOM	14612	O	TYR	D	87	37.623	-41.555	-54.954	1.00	21.73	D	O
ATOM	14614	N	CYS	D	88	37.675	-39.335	-55.247	1.00	20.76	D	N
ATOM	14615	CA	CYS	D	88	37.525	-39.422	-56.682	1.00	23.97	D	C

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ATOM	14617	CB	CYS	D	88	36.786	-38.217	-57.250	1.00	31.52	D C
ATOM	14620	SG	CYS	D	88	37.593	-36.643	-57.101	1.00	34.61	D S
ATOM	14622	C	CYS	D	88	38.882	-39.604	-57.348	1.00	23.12	D C
ATOM	14623	O	CYS	D	88	39.927	-39.331	-56.754	1.00	22.11	D O
ATOM	14625	N	LEU	D	89	38.851	-40.131	-58.567	1.00	23.55	D N
ATOM	14626	CA	LEU	D	89	40.046	-40.273	-59.350	1.00	23.64	D C
ATOM	14628	CB	LEU	D	89	40.697	-41.642	-59.151	1.00	21.20	D C
ATOM	14631	CG	LEU	D	89	41.865	-41.890	-60.131	1.00	23.42	D C
ATOM	14633	CD1	LEU	D	89	43.189	-41.499	-59.535	1.00	16.08	D C
ATOM	14637	CD2	LEU	D	89	41.886	-43.325	-60.534	1.00	21.64	D C
ATOM	14641	C	LEU	D	89	39.741	-40.044	-60.824	1.00	22.50	D C
ATOM	14642	O	LEU	D	89	39.035	-40.795	-61.473	1.00	24.42	D O
ATOM	14644	N	GLN	D	90	40.383	-39.024	-61.332	1.00	21.44	D N
ATOM	14645	CA	GLN	D	90	40.335	-38.627	-62.714	1.00	25.59	D C
ATOM	14647	CB	GLN	D	90	40.830	-37.174	-62.689	1.00	26.82	D C
ATOM	14650	CG	GLN	D	90	41.095	-36.496	-63.935	1.00	29.48	D C
ATOM	14653	CD	GLN	D	90	42.328	-36.969	-64.655	1.00	19.89	D C
ATOM	14654	OE1	GLN	D	90	43.474	-36.844	-64.208	1.00	26.78	D O
ATOM	14655	NE2	GLN	D	90	42.092	-37.456	-65.823	1.00	24.69	D N
ATOM	14658	C	GLN	D	90	41.255	-39.564	-63.511	1.00	24.41	D C
ATOM	14659	O	GLN	D	90	42.419	-39.669	-63.176	1.00	24.58	D O
ATOM	14661	N	SER	D	91	40.746	-40.218	-64.563	1.00	25.09	D N
ATOM	14662	CA	SER	D	91	41.561	-41.085	-65.433	1.00	23.75	D C
ATOM	14664	CB	SER	D	91	41.324	-42.564	-65.110	1.00	28.68	D C
ATOM	14667	OG	SER	D	91	39.952	-42.888	-65.101	1.00	27.41	D O
ATOM	14669	C	SER	D	91	41.404	-40.835	-66.948	1.00	22.49	D C
ATOM	14670	O	SER	D	91	41.363	-41.746	-67.769	1.00	23.99	D O
ATOM	14672	N	ASP	D	92	41.353	-39.570	-67.293	1.00	23.36	D N
ATOM	14673	CA	ASP	D	92	41.367	-39.088	-68.670	1.00	22.56	D C
ATOM	14675	CB	ASP	D	92	41.155	-37.570	-68.634	1.00	25.39	D C
ATOM	14678	CG	ASP	D	92	41.245	-36.942	-69.976	1.00	26.61	D C
ATOM	14679	OD1	ASP	D	92	40.226	-36.906	-70.683	1.00	27.79	D O
ATOM	14680	OD2	ASP	D	92	42.336	-36.460	-70.300	1.00	28.44	D O
ATOM	14681	C	ASP	D	92	42.666	-39.402	-69.406	1.00	24.59	D C
ATOM	14682	O	ASP	D	92	42.645	-39.776	-70.589	1.00	20.40	D O
ATOM	14684	N	SER	D	93	43.783	-39.256	-68.694	1.00	22.26	D N
ATOM	14685	CA	SER	D	93	45.122	-39.366	-69.279	1.00	23.17	D C
ATOM	14687	CB	SER	D	93	45.437	-38.103	-70.076	1.00	24.63	D C
ATOM	14690	OG	SER	D	93	45.139	-36.940	-69.309	1.00	17.68	D O
ATOM	14692	C	SER	D	93	46.145	-39.553	-68.173	1.00	22.37	D C
ATOM	14693	O	SER	D	93	45.819	-39.409	-67.010	1.00	18.71	D O
ATOM	14695	N	LEU	D	94	47.385	-39.889	-68.530	1.00	25.40	D N
ATOM	14696	CA	LEU	D	94	48.458	-39.933	-67.541	1.00	25.92	D C
ATOM	14698	CB	LEU	D	94	49.565	-40.908	-67.945	1.00	22.65	D C
ATOM	14701	CG	LEU	D	94	49.144	-42.378	-67.965	1.00	27.95	D C
ATOM	14703	CD1	LEU	D	94	50.213	-43.176	-68.669	1.00	24.33	D C
ATOM	14707	CD2	LEU	D	94	48.849	-42.925	-66.544	1.00	25.24	D C
ATOM	14711	C	LEU	D	94	49.033	-38.535	-67.440	1.00	24.84	D C
ATOM	14712	O	LEU	D	94	49.247	-37.898	-68.469	1.00	30.22	D O
ATOM	14714	N	PRO	D	95	49.311	-38.054	-66.207	1.00	17.81	D N
ATOM	14715	CA	PRO	D	95	49.148	-38.694	-64.908	1.00	17.93	D C
ATOM	14717	CB	PRO	D	95	50.081	-37.877	-64.021	1.00	18.50	D C
ATOM	14720	CG	PRO	D	95	50.003	-36.559	-64.560	1.00	18.07	D C
ATOM	14723	CD	PRO	D	95	49.848	-36.700	-66.048	1.00	18.43	D C
ATOM	14726	C	PRO	D	95	47.717	-38.576	-64.393	1.00	17.72	D C
ATOM	14727	O	PRO	D	95	47.064	-37.578	-64.666	1.00	16.78	D O
ATOM	14728	N	TYR	D	96	47.228	-39.594	-63.693	1.00	23.06	D N
ATOM	14729	CA	TYR	D	96	45.895	-39.541	-63.081	1.00	14.78	D C
ATOM	14731	CB	TYR	D	96	45.442	-40.921	-62.612	1.00	16.14	D C
ATOM	14734	CG	TYR	D	96	45.245	-42.001	-63.661	1.00	17.13	D C
ATOM	14735	CD1	TYR	D	96	45.156	-41.691	-65.020	1.00	17.38	D C
ATOM	14737	CE1	TYR	D	96	44.941	-42.645	-65.937	1.00	15.77	D C
ATOM	14739	CZ	TYR	D	96	44.790	-43.951	-65.541	1.00	17.77	D C
ATOM	14740	OH	TYR	D	96	44.553	-44.887	-66.492	1.00	17.87	D O
ATOM	14742	CE2	TYR	D	96	44.841	-44.308	-64.200	1.00	15.05	D C
ATOM	14744	CD2	TYR	D	96	45.090	-43.329	-63.278	1.00	15.05	D C
ATOM	14746	C	TYR	D	96	45.960	-38.617	-61.871	1.00	21.05	D C
ATOM	14747	O	TYR	D	96	47.041	-38.251	-61.435	1.00	16.87	D O

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ATOM	14749	N	THR	D	97	44.794	-38.255	-61.315	1.00	22.41	D	N
ATOM	14750	CA	THR	D	97	44.727	-37.339	-60.182	1.00	19.27	D	C
ATOM	14752	CB	THR	D	97	44.372	-35.849	-60.564	1.00	23.55	D	C
ATOM	14754	OG1	THR	D	97	45.007	-35.462	-61.789	1.00	19.90	D	O
ATOM	14756	CG2	THR	D	97	44.749	-34.866	-59.416	1.00	18.47	D	C
ATOM	14760	C	THR	D	97	43.612	-37.800	-59.262	1.00	20.18	D	C
ATOM	14761	O	THR	D	97	42.496	-37.968	-59.714	1.00	18.25	D	O
ATOM	14763	N	PHE	D	98	43.941	-37.946	-57.978	1.00	17.72	D	N
ATOM	14764	CA	PHE	D	98	42.975	-38.130	-56.931	1.00	19.02	D	C
ATOM	14766	CB	PHE	D	98	43.628	-38.810	-55.733	1.00	16.64	D	C
ATOM	14769	CG	PHE	D	98	43.751	-40.308	-55.830	1.00	16.93	D	C
ATOM	14770	CD1	PHE	D	98	42.640	-41.125	-55.674	1.00	16.30	D	C
ATOM	14772	CE1	PHE	D	98	42.732	-42.493	-55.713	1.00	15.69	D	C
ATOM	14774	CZ	PHE	D	98	43.973	-43.088	-55.887	1.00	16.00	D	C
ATOM	14776	CE2	PHE	D	98	45.112	-42.288	-55.993	1.00	16.64	D	C
ATOM	14778	CD2	PHE	D	98	44.996	-40.899	-55.969	1.00	15.33	D	C
ATOM	14780	C	PHE	D	98	42.504	-36.759	-56.450	1.00	23.22	D	C
ATOM	14781	O	PHE	D	98	43.284	-35.823	-56.404	1.00	24.78	D	O
ATOM	14783	N	GLY	D	99	41.241	-36.646	-56.062	1.00	25.63	D	N
ATOM	14784	CA	GLY	D	99	40.803	-35.504	-55.284	1.00	22.02	D	C
ATOM	14787	C	GLY	D	99	41.242	-35.574	-53.819	1.00	19.87	D	C
ATOM	14788	O	GLY	D	99	41.809	-36.564	-53.371	1.00	24.13	D	O
ATOM	14790	N	GLN	D	100	40.930	-34.521	-53.067	1.00	17.76	D	N
ATOM	14791	CA	GLN	D	100	41.467	-34.303	-51.729	1.00	20.61	D	C
ATOM	14793	CB	GLN	D	100	41.405	-32.826	-51.364	1.00	20.81	D	C
ATOM	14796	CG	GLN	D	100	42.122	-31.883	-52.348	1.00	25.98	D	C
ATOM	14799	CD	GLN	D	100	41.378	-31.633	-53.674	1.00	26.07	D	C
ATOM	14800	OE1	GLN	D	100	40.359	-32.252	-53.982	1.00	32.19	D	O
ATOM	14801	NE2	GLN	D	100	41.892	-30.707	-54.448	1.00	31.10	D	N
ATOM	14804	C	GLN	D	100	40.751	-35.143	-50.679	1.00	16.02	D	C
ATOM	14805	O	GLN	D	100	41.194	-35.251	-49.539	1.00	21.53	D	O
ATOM	14807	N	GLY	D	101	39.640	-35.743	-51.073	1.00	23.63	D	N
ATOM	14808	CA	GLY	D	101	38.920	-36.670	-50.215	1.00	24.16	D	C
ATOM	14811	C	GLY	D	101	37.772	-35.988	-49.498	1.00	19.70	D	C
ATOM	14812	O	GLY	D	101	37.788	-34.777	-49.312	1.00	23.12	D	O
ATOM	14814	N	THR	D	102	36.789	-36.803	-49.110	1.00	23.12	D	N
ATOM	14815	CA	THR	D	102	35.608	-36.385	-48.339	1.00	19.43	D	C
ATOM	14817	CB	THR	D	102	34.339	-36.243	-49.202	1.00	20.17	D	C
ATOM	14819	OG1	THR	D	102	34.567	-35.342	-50.290	1.00	22.19	D	O
ATOM	14821	CG2	THR	D	102	33.177	-35.711	-48.365	1.00	16.57	D	C
ATOM	14825	C	THR	D	102	35.319	-37.430	-47.262	1.00	20.19	D	C
ATOM	14826	O	THR	D	102	35.013	-38.592	-47.551	1.00	18.78	D	O
ATOM	14828	N	LYS	D	103	35.445	-37.028	-46.012	1.00	19.52	D	N
ATOM	14829	CA	LYS	D	103	35.133	-37.910	-44.908	1.00	21.81	D	C
ATOM	14831	CB	LYS	D	103	35.896	-37.453	-43.664	1.00	22.97	D	C
ATOM	14834	CG	LYS	D	103	35.842	-38.453	-42.523	1.00	24.14	D	C
ATOM	14837	CD	LYS	D	103	35.941	-37.747	-41.171	1.00	29.39	D	C
ATOM	14840	CE	LYS	D	103	37.302	-37.845	-40.569	1.00	36.08	D	C
ATOM	14843	NZ	LYS	D	103	37.363	-39.041	-39.724	1.00	37.15	D	N
ATOM	14847	C	LYS	D	103	33.634	-37.882	-44.624	1.00	22.14	D	C
ATOM	14848	O	LYS	D	103	33.098	-36.848	-44.257	1.00	21.42	D	O
ATOM	14850	N	VAL	D	104	32.974	-39.027	-44.792	1.00	26.54	D	N
ATOM	14851	CA	VAL	D	104	31.551	-39.170	-44.521	1.00	23.50	D	C
ATOM	14853	CB	VAL	D	104	30.876	-40.053	-45.569	1.00	22.74	D	C
ATOM	14855	CG1	VAL	D	104	29.409	-40.285	-45.188	1.00	24.14	D	C
ATOM	14859	CG2	VAL	D	104	31.004	-39.421	-46.967	1.00	18.29	D	C
ATOM	14863	C	VAL	D	104	31.331	-39.766	-43.130	1.00	29.41	D	C
ATOM	14864	O	VAL	D	104	31.807	-40.861	-42.856	1.00	28.82	D	O
ATOM	14866	N	GLU	D	105	30.595	-39.045	-42.276	1.00	28.13	D	N
ATOM	14867	CA	GLU	D	105	30.346	-39.448	-40.893	1.00	28.64	D	C
ATOM	14869	CB	GLU	D	105	30.939	-38.421	-39.928	1.00	31.57	D	C
ATOM	14872	CG	GLU	D	105	32.398	-38.055	-40.236	1.00	35.47	D	C
ATOM	14875	CD	GLU	D	105	33.176	-37.619	-39.002	1.00	37.71	D	C
ATOM	14876	OE1	GLU	D	105	33.318	-36.392	-38.799	1.00	41.28	D	O
ATOM	14877	OE2	GLU	D	105	33.634	-38.506	-38.235	1.00	37.76	D	O
ATOM	14878	C	GLU	D	105	28.849	-39.604	-40.621	1.00	25.14	D	C
ATOM	14879	O	GLU	D	105	28.021	-39.041	-41.310	1.00	21.64	D	O
ATOM	14881	N	ILE	D	106	28.490	-40.398	-39.626	1.00	32.36	D	N

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ATOM	14882	CA	ILE	D	106	27.072	-40.610	-39.333	1.00	29.59	D	C
ATOM	14884	CB	ILE	D	106	26.686	-42.098	-39.205	1.00	27.88	D	C
ATOM	14886	CG1	ILE	D	106	26.529	-42.705	-40.585	1.00	24.47	D	C
ATOM	14889	CD1	ILE	D	106	25.983	-44.058	-40.566	1.00	24.61	D	C
ATOM	14893	CG2	ILE	D	106	25.366	-42.267	-38.449	1.00	28.17	D	C
ATOM	14897	C	ILE	D	106	26.697	-39.879	-38.087	1.00	31.86	D	C
ATOM	14898	O	ILE	D	106	27.394	-39.958	-37.078	1.00	35.56	D	O
ATOM	14900	N	LYS	D	107	25.588	-39.154	-38.177	1.00	35.20	D	N
ATOM	14901	CA	LYS	D	107	24.985	-38.536	-37.017	1.00	34.44	D	C
ATOM	14903	CB	LYS	D	107	24.512	-37.111	-37.325	1.00	37.48	D	C
ATOM	14906	CG	LYS	D	107	23.017	-36.868	-37.381	1.00	43.55	D	C
ATOM	14909	CD	LYS	D	107	22.540	-36.073	-36.181	1.00	46.00	D	C
ATOM	14912	CE	LYS	D	107	22.850	-34.594	-36.358	1.00	47.73	D	C
ATOM	14915	NZ	LYS	D	107	22.653	-33.837	-35.091	1.00	47.52	D	N
ATOM	14919	C	LYS	D	107	23.879	-39.471	-36.542	1.00	33.34	D	C
ATOM	14920	O	LYS	D	107	23.188	-40.118	-37.328	1.00	35.03	D	O
ATOM	14922	N	ARG	D	108	23.732	-39.527	-35.233	1.00	33.03	D	N
ATOM	14923	CA	ARG	D	108	23.187	-40.680	-34.569	1.00	31.01	D	C
ATOM	14925	CB	ARG	D	108	24.305	-41.714	-34.538	1.00	32.10	D	C
ATOM	14928	CG	ARG	D	108	24.050	-42.977	-33.803	1.00	37.21	D	C
ATOM	14931	CD	ARG	D	108	24.979	-43.109	-32.625	1.00	39.14	D	C
ATOM	14934	NE	ARG	D	108	24.977	-44.485	-32.170	1.00	43.01	D	N
ATOM	14936	CZ	ARG	D	108	24.055	-45.038	-31.387	1.00	41.52	D	C
ATOM	14937	NH1	ARG	D	108	23.043	-44.335	-30.905	1.00	42.43	D	N
ATOM	14940	NH2	ARG	D	108	24.174	-46.318	-31.067	1.00	45.02	D	N
ATOM	14943	C	ARG	D	108	22.758	-40.199	-33.187	1.00	29.58	D	C
ATOM	14944	O	ARG	D	108	23.211	-39.147	-32.737	1.00	30.07	D	O
ATOM	14946	N	THR	D	109	21.856	-40.926	-32.538	1.00	31.51	D	N
ATOM	14947	CA	THR	D	109	21.395	-40.566	-31.189	1.00	31.58	D	C
ATOM	14949	CB	THR	D	109	20.217	-41.476	-30.704	1.00	31.60	D	C
ATOM	14951	OG1	THR	D	109	20.539	-42.856	-30.914	1.00	33.30	D	O
ATOM	14953	CG2	THR	D	109	18.946	-41.169	-31.459	1.00	25.01	D	C
ATOM	14957	C	THR	D	109	22.533	-40.637	-30.180	1.00	31.79	D	C
ATOM	14958	O	THR	D	109	23.572	-41.235	-30.445	1.00	35.81	D	O
ATOM	14960	N	VAL	D	110	22.327	-40.029	-29.018	1.00	31.94	D	N
ATOM	14961	CA	VAL	D	110	23.354	-39.981	-27.985	1.00	33.09	D	C
ATOM	14963	CB	VAL	D	110	23.073	-38.850	-26.964	1.00	33.06	D	C
ATOM	14965	CG1	VAL	D	110	23.279	-37.504	-27.623	1.00	35.90	D	C
ATOM	14969	CG2	VAL	D	110	23.982	-38.958	-25.784	1.00	32.84	D	C
ATOM	14973	C	VAL	D	110	23.501	-41.323	-27.258	1.00	35.00	D	C
ATOM	14974	O	VAL	D	110	22.512	-41.960	-26.892	1.00	35.42	D	O
ATOM	14976	N	ALA	D	111	24.748	-41.749	-27.076	1.00	33.63	D	N
ATOM	14977	CA	ALA	D	111	25.062	-42.979	-26.373	1.00	30.52	D	C
ATOM	14979	CB	ALA	D	111	25.590	-44.016	-27.330	1.00	28.06	D	C
ATOM	14983	C	ALA	D	111	26.096	-42.674	-25.301	1.00	32.32	D	C
ATOM	14984	O	ALA	D	111	27.192	-42.189	-25.605	1.00	34.60	D	O
ATOM	14986	N	ALA	D	112	25.739	-42.937	-24.046	1.00	29.23	D	N
ATOM	14987	CA	ALA	D	112	26.682	-42.814	-22.940	1.00	29.88	D	C
ATOM	14989	CB	ALA	D	112	25.966	-42.934	-21.606	1.00	25.30	D	C
ATOM	14993	C	ALA	D	112	27.714	-43.921	-23.084	1.00	29.74	D	C
ATOM	14994	O	ALA	D	112	27.378	-45.018	-23.538	1.00	32.65	D	O
ATOM	14996	N	PRO	D	113	28.982	-43.634	-22.748	1.00	27.72	D	N
ATOM	14997	CA	PRO	D	113	29.965	-44.707	-22.751	1.00	27.32	D	C
ATOM	14999	CB	PRO	D	113	31.295	-43.963	-22.645	1.00	26.69	D	C
ATOM	15002	CG	PRO	D	113	30.964	-42.689	-21.969	1.00	26.88	D	C
ATOM	15005	CD	PRO	D	113	29.578	-42.336	-22.393	1.00	26.25	D	C
ATOM	15008	C	PRO	D	113	29.788	-45.625	-21.557	1.00	29.97	D	C
ATOM	15009	O	PRO	D	113	29.350	-45.177	-20.500	1.00	30.27	D	O
ATOM	15010	N	SER	D	114	30.104	-46.905	-21.746	1.00	31.38	D	N
ATOM	15011	CA	SER	D	114	30.398	-47.809	-20.637	1.00	28.44	D	C
ATOM	15013	CB	SER	D	114	30.195	-49.271	-21.047	1.00	31.00	D	C
ATOM	15016	OG	SER	D	114	29.261	-49.396	-22.110	1.00	37.75	D	O
ATOM	15018	C	SER	D	114	31.865	-47.563	-20.277	1.00	28.88	D	C
ATOM	15019	O	SER	D	114	32.692	-47.392	-21.168	1.00	29.06	D	O
ATOM	15021	N	VAL	D	115	32.193	-47.528	-18.985	1.00	30.10	D	N
ATOM	15022	CA	VAL	D	115	33.564	-47.210	-18.565	1.00	29.12	D	C
ATOM	15024	CB	VAL	D	115	33.630	-45.911	-17.744	1.00	26.46	D	C
ATOM	15026	CG1	VAL	D	115	35.053	-45.662	-17.241	1.00	21.50	D	C

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ATOM	15030	CG2	VAL	D	115	33.147	-44.738	-18.586	1.00	21.91	D	C
ATOM	15034	C	VAL	D	115	34.182	-48.351	-17.767	1.00	29.14	D	C
ATOM	15035	O	VAL	D	115	33.528	-48.933	-16.917	1.00	25.04	D	O
ATOM	15037	N	PHE	D	116	35.441	-48.660	-18.086	1.00	31.23	D	N
ATOM	15038	CA	PHE	D	116	36.198	-49.741	-17.466	1.00	29.75	D	C
ATOM	15040	CB	PHE	D	116	36.376	-50.917	-18.439	1.00	33.06	D	C
ATOM	15043	CG	PHE	D	116	35.086	-51.458	-19.011	1.00	34.46	D	C
ATOM	15044	CD1	PHE	D	116	34.391	-52.475	-18.366	1.00	35.78	D	C
ATOM	15046	CE1	PHE	D	116	33.213	-52.983	-18.905	1.00	33.55	D	C
ATOM	15048	CZ	PHE	D	116	32.730	-52.485	-20.093	1.00	33.99	D	C
ATOM	15050	CE2	PHE	D	116	33.413	-51.481	-20.750	1.00	33.27	D	C
ATOM	15052	CD2	PHE	D	116	34.589	-50.976	-20.214	1.00	32.96	D	C
ATOM	15054	C	PHE	D	116	37.584	-49.231	-17.100	1.00	27.39	D	C
ATOM	15055	O	PHE	D	116	38.196	-48.490	-17.865	1.00	24.57	D	O
ATOM	15057	N	ILE	D	117	38.091	-49.657	-15.945	1.00	30.76	D	N
ATOM	15058	CA	ILE	D	117	39.436	-49.291	-15.511	1.00	28.81	D	C
ATOM	15060	CB	ILE	D	117	39.388	-48.460	-14.191	1.00	30.10	D	C
ATOM	15062	CG1	ILE	D	117	40.780	-47.918	-13.834	1.00	28.19	D	C
ATOM	15065	CD1	ILE	D	117	40.759	-46.847	-12.775	1.00	26.00	D	C
ATOM	15069	CG2	ILE	D	117	38.784	-49.277	-13.057	1.00	25.02	D	C
ATOM	15073	C	ILE	D	117	40.282	-50.564	-15.378	1.00	29.40	D	C
ATOM	15074	O	ILE	D	117	39.769	-51.614	-14.988	1.00	27.02	D	O
ATOM	15076	N	PHE	D	118	41.563	-50.464	-15.745	1.00	31.05	D	N
ATOM	15077	CA	PHE	D	118	42.510	-51.581	-15.691	1.00	29.55	D	C
ATOM	15079	CB	PHE	D	118	42.968	-51.996	-17.089	1.00	30.50	D	C
ATOM	15082	CG	PHE	D	118	41.879	-52.537	-17.950	1.00	30.95	D	C
ATOM	15083	CD1	PHE	D	118	41.530	-53.875	-17.879	1.00	29.74	D	C
ATOM	15085	CE1	PHE	D	118	40.530	-54.384	-18.674	1.00	30.56	D	C
ATOM	15087	CZ	PHE	D	118	39.861	-53.558	-19.546	1.00	30.88	D	C
ATOM	15089	CE2	PHE	D	118	40.197	-52.211	-19.624	1.00	30.79	D	C
ATOM	15091	CD2	PHE	D	118	41.206	-51.711	-18.835	1.00	30.33	D	C
ATOM	15093	C	PHE	D	118	43.756	-51.178	-14.937	1.00	29.55	D	C
ATOM	15094	O	PHE	D	118	44.518	-50.350	-15.426	1.00	31.14	D	O
ATOM	15096	N	PRO	D	119	43.999	-51.786	-13.765	1.00	28.66	D	N
ATOM	15097	CA	PRO	D	119	45.267	-51.525	-13.095	1.00	29.35	D	C
ATOM	15099	CB	PRO	D	119	45.169	-52.344	-11.804	1.00	29.92	D	C
ATOM	15102	CG	PRO	D	119	43.726	-52.651	-11.632	1.00	31.03	D	C
ATOM	15105	CD	PRO	D	119	43.140	-52.701	-12.997	1.00	29.98	D	C
ATOM	15108	C	PRO	D	119	46.440	-52.007	-13.930	1.00	27.14	D	C
ATOM	15109	O	PRO	D	119	46.240	-52.749	-14.883	1.00	25.56	D	O
ATOM	15110	N	PRO	D	120	47.667	-51.622	-13.554	1.00	29.13	D	N
ATOM	15111	CA	PRO	D	120	48.806	-52.126	-14.300	1.00	30.79	D	C
ATOM	15113	CB	PRO	D	120	50.003	-51.384	-13.691	1.00	27.20	D	C
ATOM	15116	CG	PRO	D	120	49.442	-50.309	-12.896	1.00	29.10	D	C
ATOM	15119	CD	PRO	D	120	48.090	-50.759	-12.448	1.00	29.73	D	C
ATOM	15122	C	PRO	D	120	48.976	-53.621	-14.118	1.00	33.17	D	C
ATOM	15123	O	PRO	D	120	48.596	-54.180	-13.080	1.00	33.53	D	O
ATOM	15124	N	SER	D	121	49.540	-54.252	-15.139	1.00	34.61	D	N
ATOM	15125	CA	SER	D	121	49.883	-55.661	-15.093	1.00	36.58	D	C
ATOM	15127	CB	SER	D	121	50.432	-56.085	-16.450	1.00	34.74	D	C
ATOM	15130	OG	SER	D	121	50.750	-57.452	-16.452	1.00	38.70	D	O
ATOM	15132	C	SER	D	121	50.931	-55.924	-14.010	1.00	38.64	D	C
ATOM	15133	O	SER	D	121	51.852	-55.122	-13.821	1.00	37.91	D	O
ATOM	15135	N	ASP	D	122	50.802	-57.046	-13.305	1.00	39.96	D	N
ATOM	15136	CA	ASP	D	122	51.814	-57.423	-12.327	1.00	40.89	D	C
ATOM	15138	CB	ASP	D	122	51.420	-58.700	-11.564	1.00	46.16	D	C
ATOM	15141	CG	ASP	D	122	50.536	-58.421	-10.338	1.00	48.41	D	C
ATOM	15142	OD1	ASP	D	122	50.770	-57.421	-9.621	1.00	46.39	D	O
ATOM	15143	OD2	ASP	D	122	49.613	-59.225	-10.084	1.00	50.90	D	O
ATOM	15144	C	ASP	D	122	53.143	-57.604	-13.057	1.00	39.97	D	C
ATOM	15145	O	ASP	D	122	54.201	-57.233	-12.549	1.00	39.70	D	O
ATOM	15147	N	GLU	D	123	53.075	-58.150	-14.265	1.00	40.92	D	N
ATOM	15148	CA	GLU	D	123	54.254	-58.304	-15.106	1.00	41.52	D	C
ATOM	15150	CB	GLU	D	123	53.874	-58.981	-16.414	1.00	41.20	D	C
ATOM	15153	CG	GLU	D	123	55.073	-59.428	-17.223	1.00	43.54	D	C
ATOM	15156	CD	GLU	D	123	54.680	-60.002	-18.564	1.00	48.16	D	C
ATOM	15157	OE1	GLU	D	123	53.464	-60.049	-18.866	1.00	51.94	D	O
ATOM	15158	OE2	GLU	D	123	55.593	-60.400	-19.319	1.00	52.58	D	O

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ATOM	15159	C	GLU	D	123	54.933	-56.973	-15.418	1.00	41.78	D	C
ATOM	15160	O	GLU	D	123	56.163	-56.902	-15.475	1.00	41.61	D	O
ATOM	15162	N	GLN	D	124	54.126	-55.931	-15.639	1.00	41.22	D	N
ATOM	15163	CA	GLN	D	124	54.637	-54.613	-16.020	1.00	39.06	D	C
ATOM	15165	CB	GLN	D	124	53.523	-53.710	-16.564	1.00	36.82	D	C
ATOM	15168	CG	GLN	D	124	54.082	-52.438	-17.204	1.00	37.60	D	C
ATOM	15171	CD	GLN	D	124	53.044	-51.384	-17.552	1.00	33.82	D	C
ATOM	15172	OE1	GLN	D	124	51.851	-51.530	-17.276	1.00	29.25	D	O
ATOM	15173	NE2	GLN	D	124	53.507	-50.304	-18.169	1.00	33.21	D	N
ATOM	15176	C	GLN	D	124	55.350	-53.912	-14.865	1.00	39.73	D	C
ATOM	15177	O	GLN	D	124	56.408	-53.311	-15.072	1.00	38.43	D	O
ATOM	15179	N	LEU	D	125	54.764	-53.965	-13.666	1.00	41.44	D	N
ATOM	15180	CA	LEU	D	125	55.404	-53.410	-12.463	1.00	42.32	D	C
ATOM	15182	CB	LEU	D	125	54.605	-53.747	-11.198	1.00	37.58	D	C
ATOM	15185	CG	LEU	D	125	53.410	-52.905	-10.742	1.00	33.02	D	C
ATOM	15187	CD1	LEU	D	125	53.620	-51.428	-11.052	1.00	31.93	D	C
ATOM	15191	CD2	LEU	D	125	52.118	-53.421	-11.324	1.00	31.83	D	C
ATOM	15195	C	LEU	D	125	56.826	-53.957	-12.317	1.00	44.07	D	C
ATOM	15196	O	LEU	D	125	57.767	-53.210	-12.043	1.00	44.84	D	O
ATOM	15198	N	LYS	D	126	56.954	-55.267	-12.508	1.00	46.83	D	N
ATOM	15199	CA	LYS	D	126	58.245	-55.968	-12.542	1.00	50.83	D	C
ATOM	15201	CB	LYS	D	126	58.040	-57.354	-13.177	1.00	54.90	D	C
ATOM	15204	CG	LYS	D	126	58.628	-58.538	-12.421	1.00	56.24	D	C
ATOM	15207	CD	LYS	D	126	57.774	-59.791	-12.673	1.00	56.17	D	C
ATOM	15210	CE	LYS	D	126	58.559	-61.079	-12.507	1.00	57.56	D	C
ATOM	15213	NZ	LYS	D	126	59.624	-61.239	-13.537	1.00	59.31	D	N
ATOM	15217	C	LYS	D	126	59.326	-55.195	-13.322	1.00	52.15	D	C
ATOM	15218	O	LYS	D	126	60.465	-55.081	-12.859	1.00	53.19	D	O
ATOM	15220	N	SER	D	127	58.959	-54.672	-14.497	1.00	50.79	D	N
ATOM	15221	CA	SER	D	127	59.883	-53.908	-15.353	1.00	48.68	D	C
ATOM	15223	CB	SER	D	127	59.476	-54.031	-16.832	1.00	50.68	D	C
ATOM	15226	OG	SER	D	127	58.198	-53.463	-17.091	1.00	49.93	D	O
ATOM	15228	C	SER	D	127	60.026	-52.422	-14.954	1.00	47.27	D	C
ATOM	15229	O	SER	D	127	60.800	-51.690	-15.574	1.00	46.30	D	O
ATOM	15231	N	GLY	D	128	59.278	-51.983	-13.939	1.00	45.20	D	N
ATOM	15232	CA	GLY	D	128	59.483	-50.670	-13.316	1.00	44.46	D	C
ATOM	15235	C	GLY	D	128	58.550	-49.533	-13.719	1.00	44.32	D	C
ATOM	15236	O	GLY	D	128	58.847	-48.372	-13.425	1.00	44.67	D	O
ATOM	15238	N	THR	D	129	57.425	-49.852	-14.366	1.00	42.57	D	N
ATOM	15239	CA	THR	D	129	56.453	-48.836	-14.823	1.00	40.41	D	C
ATOM	15241	CB	THR	D	129	56.625	-48.522	-16.331	1.00	41.75	D	C
ATOM	15243	OG1	THR	D	129	58.008	-48.301	-16.622	1.00	44.53	D	O
ATOM	15245	CG2	THR	D	129	55.819	-47.282	-16.734	1.00	41.17	D	C
ATOM	15249	C	THR	D	129	55.003	-49.281	-14.592	1.00	37.87	D	C
ATOM	15250	O	THR	D	129	54.674	-50.458	-14.738	1.00	35.71	D	O
ATOM	15252	N	ALA	D	130	54.143	-48.325	-14.242	1.00	36.71	D	N
ATOM	15253	CA	ALA	D	130	52.703	-48.565	-14.087	1.00	34.74	D	C
ATOM	15255	CB	ALA	D	130	52.246	-48.110	-12.707	1.00	33.49	D	C
ATOM	15259	C	ALA	D	130	51.903	-47.837	-15.179	1.00	34.70	D	C
ATOM	15260	O	ALA	D	130	51.999	-46.615	-15.321	1.00	34.83	D	O
ATOM	15262	N	SER	D	131	51.131	-48.593	-15.960	1.00	31.77	D	N
ATOM	15263	CA	SER	D	131	50.190	-48.020	-16.902	1.00	28.49	D	C
ATOM	15265	CB	SER	D	131	50.479	-48.516	-18.310	1.00	28.78	D	C
ATOM	15268	OG	SER	D	131	51.859	-48.361	-18.587	1.00	30.26	D	O
ATOM	15270	C	SER	D	131	48.776	-48.379	-16.470	1.00	27.13	D	C
ATOM	15271	O	SER	D	131	48.406	-49.548	-16.424	1.00	25.44	D	O
ATOM	15273	N	VAL	D	132	47.998	-47.357	-16.125	1.00	26.88	D	N
ATOM	15274	CA	VAL	D	132	46.616	-47.537	-15.708	1.00	26.00	D	C
ATOM	15276	CB	VAL	D	132	46.255	-46.646	-14.490	1.00	20.58	D	C
ATOM	15278	CG1	VAL	D	132	44.985	-47.142	-13.822	1.00	17.41	D	C
ATOM	15282	CG2	VAL	D	132	47.415	-46.583	-13.502	1.00	16.64	D	C
ATOM	15286	C	VAL	D	132	45.775	-47.146	-16.908	1.00	25.48	D	C
ATOM	15287	O	VAL	D	132	45.922	-46.040	-17.428	1.00	30.57	D	O
ATOM	15289	N	VAL	D	133	44.910	-48.051	-17.361	1.00	25.94	D	N
ATOM	15290	CA	VAL	D	133	44.162	-47.846	-18.598	1.00	27.27	D	C
ATOM	15292	CB	VAL	D	133	44.412	-49.016	-19.599	1.00	26.21	D	C
ATOM	15294	CG1	VAL	D	133	43.535	-48.899	-20.842	1.00	22.42	D	C
ATOM	15298	CG2	VAL	D	133	45.880	-49.055	-20.010	1.00	24.94	D	C

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ATOM	15302	C	VAL	D	133	42.666	-47.632	-18.305	1.00	28.46	D	C
ATOM	15303	O	VAL	D	133	42.048	-48.378	-17.543	1.00	27.42	D	O
ATOM	15305	N	CYS	D	134	42.101	-46.585	-18.899	1.00	31.94	D	N
ATOM	15306	CA	CYS	D	134	40.676	-46.307	-18.789	1.00	31.66	D	C
ATOM	15308	CB	CYS	D	134	40.451	-44.938	-18.130	1.00	34.11	D	C
ATOM	15311	SG	CYS	D	134	38.731	-44.420	-17.972	1.00	36.06	D	S
ATOM	15313	C	CYS	D	134	40.039	-46.406	-20.183	1.00	33.22	D	C
ATOM	15314	O	CYS	D	134	40.525	-45.818	-21.151	1.00	33.36	D	O
ATOM	15316	N	LEU	D	135	38.955	-47.169	-20.274	1.00	32.61	D	N
ATOM	15317	CA	LEU	D	135	38.301	-47.450	-21.545	1.00	32.21	D	C
ATOM	15319	CB	LEU	D	135	38.270	-48.962	-21.774	1.00	31.24	D	C
ATOM	15322	CG	LEU	D	135	37.463	-49.519	-22.948	1.00	32.70	D	C
ATOM	15324	CD1	LEU	D	135	37.919	-48.937	-24.296	1.00	27.46	D	C
ATOM	15328	CD2	LEU	D	135	37.584	-51.039	-22.928	1.00	33.39	D	C
ATOM	15332	C	LEU	D	135	36.880	-46.889	-21.566	1.00	31.76	D	C
ATOM	15333	O	LEU	D	135	36.059	-47.242	-20.721	1.00	31.70	D	O
ATOM	15335	N	LEU	D	136	36.603	-46.006	-22.530	1.00	33.85	D	N
ATOM	15336	CA	LEU	D	136	35.239	-45.548	-22.807	1.00	30.59	D	C
ATOM	15338	CB	LEU	D	136	35.210	-44.041	-23.084	1.00	30.02	D	C
ATOM	15341	CG	LEU	D	136	35.494	-43.100	-21.902	1.00	29.87	D	C
ATOM	15343	CD1	LEU	D	136	36.729	-43.532	-21.139	1.00	27.59	D	C
ATOM	15347	CD2	LEU	D	136	35.647	-41.652	-22.366	1.00	28.29	D	C
ATOM	15351	C	LEU	D	136	34.750	-46.324	-24.017	1.00	31.44	D	C
ATOM	15352	O	LEU	D	136	35.324	-46.204	-25.096	1.00	37.86	D	O
ATOM	15354	N	ASN	D	137	33.699	-47.120	-23.850	1.00	32.20	D	N
ATOM	15355	CA	ASN	D	137	33.246	-48.027	-24.916	1.00	32.34	D	C
ATOM	15357	CB	ASN	D	137	33.100	-49.459	-24.366	1.00	35.12	D	C
ATOM	15360	CG	ASN	D	137	33.546	-50.529	-25.360	1.00	38.43	D	C
ATOM	15361	OD1	ASN	D	137	34.679	-50.514	-25.842	1.00	42.18	D	O
ATOM	15362	ND2	ASN	D	137	32.662	-51.477	-25.649	1.00	39.41	D	N
ATOM	15365	C	ASN	D	137	31.931	-47.573	-25.570	1.00	30.34	D	C
ATOM	15366	O	ASN	D	137	30.942	-47.316	-24.881	1.00	27.97	D	O
ATOM	15368	N	ASN	D	138	31.943	-47.464	-26.902	1.00	29.02	D	N
ATOM	15369	CA	ASN	D	138	30.728	-47.294	-27.692	1.00	28.20	D	C
ATOM	15371	CB	ASN	D	138	29.896	-48.585	-27.677	1.00	30.41	D	C
ATOM	15374	CG	ASN	D	138	30.694	-49.824	-28.079	1.00	36.99	D	C
ATOM	15375	OD1	ASN	D	138	31.434	-49.840	-29.073	1.00	38.74	D	O
ATOM	15376	ND2	ASN	D	138	30.512	-50.892	-27.311	1.00	44.52	D	N
ATOM	15379	C	ASN	D	138	29.836	-46.094	-27.287	1.00	27.01	D	C
ATOM	15380	O	ASN	D	138	28.670	-46.266	-26.898	1.00	28.24	D	O
ATOM	15382	N	PHE	D	139	30.382	-44.886	-27.410	1.00	24.88	D	N
ATOM	15383	CA	PHE	D	139	29.644	-43.653	-27.093	1.00	28.00	D	C
ATOM	15385	CB	PHE	D	139	30.340	-42.878	-25.955	1.00	29.11	D	C
ATOM	15388	CG	PHE	D	139	31.760	-42.450	-26.263	1.00	28.78	D	C
ATOM	15389	CD1	PHE	D	139	32.022	-41.192	-26.793	1.00	28.17	D	C
ATOM	15391	CE1	PHE	D	139	33.321	-40.790	-27.075	1.00	26.79	D	C
ATOM	15393	CZ	PHE	D	139	34.373	-41.642	-26.819	1.00	27.16	D	C
ATOM	15395	CE2	PHE	D	139	34.130	-42.891	-26.288	1.00	26.75	D	C
ATOM	15397	CD2	PHE	D	139	32.830	-43.288	-26.002	1.00	27.54	D	C
ATOM	15399	C	PHE	D	139	29.386	-42.747	-28.306	1.00	29.03	D	C
ATOM	15400	O	PHE	D	139	30.031	-42.876	-29.364	1.00	31.03	D	O
ATOM	15402	N	TYR	D	140	28.394	-41.870	-28.160	1.00	29.92	D	N
ATOM	15403	CA	TYR	D	140	28.122	-40.821	-29.147	1.00	31.12	D	C
ATOM	15405	CB	TYR	D	140	27.152	-41.299	-30.242	1.00	29.92	D	C
ATOM	15408	CG	TYR	D	140	27.111	-40.328	-31.391	1.00	30.80	D	C
ATOM	15409	CD1	TYR	D	140	28.010	-40.438	-32.448	1.00	24.94	D	C
ATOM	15411	CE1	TYR	D	140	28.007	-39.526	-33.482	1.00	31.63	D	C
ATOM	15413	CZ	TYR	D	140	27.103	-38.473	-33.450	1.00	31.49	D	C
ATOM	15414	OH	TYR	D	140	27.085	-37.546	-34.454	1.00	28.96	D	O
ATOM	15416	CE2	TYR	D	140	26.219	-38.336	-32.400	1.00	27.23	D	C
ATOM	15418	CD2	TYR	D	140	26.225	-39.255	-31.381	1.00	28.73	D	C
ATOM	15420	C	TYR	D	140	27.560	-39.574	-28.455	1.00	34.37	D	C
ATOM	15421	O	TYR	D	140	26.641	-39.692	-27.637	1.00	34.18	D	O
ATOM	15423	N	PRO	D	141	28.074	-38.373	-28.799	1.00	34.24	D	N
ATOM	15424	CA	PRO	D	141	29.070	-38.051	-29.827	1.00	33.63	D	C
ATOM	15426	CB	PRO	D	141	28.758	-36.588	-30.171	1.00	32.65	D	C
ATOM	15429	CG	PRO	D	141	28.106	-36.030	-28.974	1.00	32.13	D	C
ATOM	15432	CD	PRO	D	141	27.588	-37.157	-28.119	1.00	33.61	D	C

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ATOM	15435	C	PRO	D	141	30.547	-38.224	-29.434	1.00	35.56	D	C
ATOM	15436	O	PRO	D	141	30.871	-38.600	-28.318	1.00	31.71	D	O
ATOM	15437	N	ARG	D	142	31.418	-37.941	-30.394	1.00	39.14	D	N
ATOM	15438	CA	ARG	D	142	32.867	-38.072	-30.264	1.00	37.08	D	C
ATOM	15440	CB	ARG	D	142	33.489	-37.472	-31.523	1.00	41.30	D	C
ATOM	15443	CG	ARG	D	142	34.967	-37.275	-31.509	1.00	46.19	D	C
ATOM	15446	CD	ARG	D	142	35.703	-38.569	-31.413	1.00	52.29	D	C
ATOM	15449	NE	ARG	D	142	37.138	-38.330	-31.526	1.00	57.43	D	N
ATOM	15451	CZ	ARG	D	142	37.780	-38.094	-32.670	1.00	60.40	D	C
ATOM	15452	NH1	ARG	D	142	37.120	-38.073	-33.831	1.00	60.11	D	N
ATOM	15455	NH2	ARG	D	142	39.097	-37.885	-32.653	1.00	59.46	D	N
ATOM	15458	C	ARG	D	142	33.454	-37.406	-29.015	1.00	37.18	D	C
ATOM	15459	O	ARG	D	142	34.409	-37.904	-28.426	1.00	37.44	D	O
ATOM	15461	N	GLU	D	143	32.871	-36.280	-28.624	1.00	36.04	D	N
ATOM	15462	CA	GLU	D	143	33.399	-35.438	-27.558	1.00	36.98	D	C
ATOM	15464	CB	GLU	D	143	32.740	-34.050	-27.607	1.00	39.85	D	C
ATOM	15467	CG	GLU	D	143	33.201	-33.158	-28.776	1.00	41.92	D	C
ATOM	15470	CD	GLU	D	143	32.669	-33.598	-30.136	1.00	43.37	D	C
ATOM	15471	OE1	GLU	D	143	31.490	-34.005	-30.210	1.00	45.37	D	O
ATOM	15472	OE2	GLU	D	143	33.434	-33.532	-31.131	1.00	42.99	D	O
ATOM	15473	C	GLU	D	143	33.204	-36.051	-26.160	1.00	37.43	D	C
ATOM	15474	O	GLU	D	143	32.079	-36.331	-25.742	1.00	37.88	D	O
ATOM	15476	N	ALA	D	144	34.313	-36.234	-25.447	1.00	34.18	D	N
ATOM	15477	CA	ALA	D	144	34.304	-36.815	-24.112	1.00	37.33	D	C
ATOM	15479	CB	ALA	D	144	34.262	-38.339	-24.194	1.00	37.08	D	C
ATOM	15483	C	ALA	D	144	35.547	-36.362	-23.365	1.00	36.80	D	C
ATOM	15484	O	ALA	D	144	36.591	-36.127	-23.978	1.00	37.64	D	O
ATOM	15486	N	LYS	D	145	35.430	-36.241	-22.048	1.00	37.39	D	N
ATOM	15487	CA	LYS	D	145	36.562	-35.843	-21.211	1.00	39.09	D	C
ATOM	15489	CB	LYS	D	145	36.279	-34.533	-20.481	1.00	39.83	D	C
ATOM	15492	CG	LYS	D	145	37.552	-33.781	-20.115	1.00	42.52	D	C
ATOM	15495	CD	LYS	D	145	37.283	-32.588	-19.203	1.00	43.56	D	C
ATOM	15498	CE	LYS	D	145	37.149	-32.999	-17.750	1.00	45.83	D	C
ATOM	15501	NZ	LYS	D	145	36.957	-31.803	-16.880	1.00	43.85	D	N
ATOM	15505	C	LYS	D	145	36.894	-36.933	-20.205	1.00	35.48	D	C
ATOM	15506	O	LYS	D	145	35.994	-37.489	-19.582	1.00	31.31	D	O
ATOM	15508	N	VAL	D	146	38.188	-37.237	-20.089	1.00	35.08	D	N
ATOM	15509	CA	VAL	D	146	38.703	-38.226	-19.145	1.00	36.58	D	C
ATOM	15511	CB	VAL	D	146	39.436	-39.383	-19.862	1.00	35.47	D	C
ATOM	15513	CG1	VAL	D	146	39.919	-40.415	-18.854	1.00	34.12	D	C
ATOM	15517	CG2	VAL	D	146	38.531	-40.038	-20.892	1.00	36.56	D	C
ATOM	15521	C	VAL	D	146	39.679	-37.520	-18.201	1.00	36.13	D	C
ATOM	15522	O	VAL	D	146	40.666	-36.929	-18.642	1.00	35.35	D	O
ATOM	15524	N	GLN	D	147	39.390	-37.584	-16.905	1.00	40.14	D	N
ATOM	15525	CA	GLN	D	147	40.224	-36.961	-15.872	1.00	38.74	D	C
ATOM	15527	CB	GLN	D	147	39.396	-35.920	-15.100	1.00	43.79	D	C
ATOM	15530	CG	GLN	D	147	40.103	-35.254	-13.909	1.00	45.49	D	C
ATOM	15533	CD	GLN	D	147	41.346	-34.466	-14.307	1.00	50.28	D	C
ATOM	15534	OE1	GLN	D	147	42.412	-34.607	-13.693	1.00	50.78	D	O
ATOM	15535	NE2	GLN	D	147	41.214	-33.628	-15.336	1.00	52.62	D	N
ATOM	15538	C	GLN	D	147	40.767	-38.038	-14.930	1.00	36.50	D	C
ATOM	15539	O	GLN	D	147	39.995	-38.772	-14.308	1.00	34.45	D	O
ATOM	15541	N	TRP	D	148	42.092	-38.130	-14.827	1.00	34.03	D	N
ATOM	15542	CA	TRP	D	148	42.722	-39.067	-13.898	1.00	34.45	D	C
ATOM	15544	CB	TRP	D	148	44.066	-39.544	-14.446	1.00	30.66	D	C
ATOM	15547	CG	TRP	D	148	43.918	-40.598	-15.490	1.00	29.58	D	C
ATOM	15548	CD1	TRP	D	148	44.074	-40.449	-16.834	1.00	29.30	D	C
ATOM	15550	NE1	TRP	D	148	43.845	-41.643	-17.467	1.00	29.69	D	N
ATOM	15552	CE2	TRP	D	148	43.531	-42.591	-16.530	1.00	29.30	D	C
ATOM	15553	CD2	TRP	D	148	43.562	-41.967	-15.274	1.00	29.25	D	C
ATOM	15554	CE3	TRP	D	148	43.280	-42.729	-14.135	1.00	28.96	D	C
ATOM	15556	CZ3	TRP	D	148	42.971	-44.066	-14.287	1.00	28.54	D	C
ATOM	15558	CH2	TRP	D	148	42.954	-44.660	-15.547	1.00	29.27	D	C
ATOM	15560	CZ2	TRP	D	148	43.232	-43.942	-16.681	1.00	29.79	D	C
ATOM	15562	C	TRP	D	148	42.915	-38.451	-12.510	1.00	35.26	D	C
ATOM	15563	O	TRP	D	148	43.365	-37.316	-12.386	1.00	35.44	D	O
ATOM	15565	N	LYS	D	149	42.548	-39.208	-11.479	1.00	35.54	D	N
ATOM	15566	CA	LYS	D	149	42.760	-38.815	-10.095	1.00	38.11	D	C

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ATOM	15568	CB	LYS	D	149	41.427	-38.644	-9.368	1.00	40.72	D	C
ATOM	15571	CG	LYS	D	149	40.555	-37.472	-9.795	1.00	41.09	D	C
ATOM	15574	CD	LYS	D	149	39.265	-37.475	-8.952	1.00	41.77	D	C
ATOM	15577	CE	LYS	D	149	38.562	-36.118	-8.888	1.00	42.78	D	C
ATOM	15580	NZ	LYS	D	149	37.509	-35.986	-9.914	1.00	42.94	D	N
ATOM	15584	C	LYS	D	149	43.547	-39.917	-9.382	1.00	38.03	D	C
ATOM	15585	O	LYS	D	149	43.187	-41.086	-9.474	1.00	36.30	D	O
ATOM	15587	N	VAL	D	150	44.609	-39.538	-8.674	1.00	37.91	D	N
ATOM	15588	CA	VAL	D	150	45.321	-40.452	-7.781	1.00	36.63	D	C
ATOM	15590	CB	VAL	D	150	46.800	-40.590	-8.184	1.00	34.89	D	C
ATOM	15592	CG1	VAL	D	150	47.487	-41.659	-7.351	1.00	33.82	D	C
ATOM	15596	CG2	VAL	D	150	46.911	-40.922	-9.659	1.00	31.87	D	C
ATOM	15600	C	VAL	D	150	45.195	-39.926	-6.345	1.00	37.19	D	C
ATOM	15601	O	VAL	D	150	45.719	-38.856	-6.020	1.00	37.56	D	O
ATOM	15603	N	ASP	D	151	44.493	-40.676	-5.496	1.00	35.96	D	N
ATOM	15604	CA	ASP	D	151	44.184	-40.243	-4.124	1.00	37.33	D	C
ATOM	15606	CB	ASP	D	151	45.455	-40.143	-3.245	1.00	37.08	D	C
ATOM	15609	CG	ASP	D	151	45.949	-41.499	-2.724	1.00	34.84	D	C
ATOM	15610	OD1	ASP	D	151	45.172	-42.482	-2.698	1.00	32.13	D	O
ATOM	15611	OD2	ASP	D	151	47.129	-41.560	-2.311	1.00	32.66	D	O
ATOM	15612	C	ASP	D	151	43.440	-38.903	-4.172	1.00	37.55	D	C
ATOM	15613	O	ASP	D	151	43.746	-37.970	-3.428	1.00	37.91	D	O
ATOM	15615	N	ASN	D	152	42.470	-38.828	-5.077	1.00	37.12	D	N
ATOM	15616	CA	ASN	D	152	41.647	-37.631	-5.312	1.00	38.08	D	C
ATOM	15618	CB	ASN	D	152	40.775	-37.325	-4.088	1.00	40.69	D	C
ATOM	15621	CG	ASN	D	152	39.363	-36.897	-4.477	1.00	45.14	D	C
ATOM	15622	OD1	ASN	D	152	38.914	-35.800	-4.129	1.00	45.59	D	O
ATOM	15623	ND2	ASN	D	152	38.665	-37.757	-5.221	1.00	47.05	D	N
ATOM	15626	C	ASN	D	152	42.373	-36.355	-5.795	1.00	36.43	D	C
ATOM	15627	O	ASN	D	152	41.743	-35.305	-5.926	1.00	36.65	D	O
ATOM	15629	N	ALA	D	153	43.673	-36.446	-6.078	1.00	33.09	D	N
ATOM	15630	CA	ALA	D	153	44.406	-35.337	-6.679	1.00	33.65	D	C
ATOM	15632	CB	ALA	D	153	45.860	-35.362	-6.262	1.00	31.73	D	C
ATOM	15636	C	ALA	D	153	44.289	-35.448	-8.198	1.00	33.55	D	C
ATOM	15637	O	ALA	D	153	44.605	-36.488	-8.777	1.00	30.56	D	O
ATOM	15639	N	LEU	D	154	43.833	-34.369	-8.830	1.00	34.49	D	N
ATOM	15640	CA	LEU	D	154	43.655	-34.325	-10.276	1.00	35.99	D	C
ATOM	15642	CB	LEU	D	154	42.848	-33.077	-10.664	1.00	40.15	D	C
ATOM	15645	CG	LEU	D	154	41.387	-33.066	-10.193	1.00	43.14	D	C
ATOM	15647	CD1	LEU	D	154	40.756	-31.690	-10.337	1.00	42.70	D	C
ATOM	15651	CD2	LEU	D	154	40.578	-34.084	-10.975	1.00	45.09	D	C
ATOM	15655	C	LEU	D	154	45.001	-34.357	-11.019	1.00	35.56	D	C
ATOM	15656	O	LEU	D	154	45.910	-33.588	-10.710	1.00	35.73	D	O
ATOM	15658	N	GLN	D	155	45.114	-35.251	-11.999	1.00	33.47	D	N
ATOM	15659	CA	GLN	D	155	46.352	-35.438	-12.744	1.00	33.18	D	C
ATOM	15661	CB	GLN	D	155	46.543	-36.920	-13.088	1.00	32.91	D	C
ATOM	15664	CG	GLN	D	155	46.513	-37.874	-11.909	1.00	32.02	D	C
ATOM	15667	CD	GLN	D	155	47.631	-37.627	-10.930	1.00	29.51	D	C
ATOM	15668	OE1	GLN	D	155	47.389	-37.326	-9.760	1.00	25.58	D	O
ATOM	15669	NE2	GLN	D	155	48.865	-37.743	-11.400	1.00	26.71	D	N
ATOM	15672	C	GLN	D	155	46.346	-34.651	-14.046	1.00	33.11	D	C
ATOM	15673	O	GLN	D	155	45.292	-34.403	-14.634	1.00	33.54	D	O
ATOM	15675	N	SER	D	156	47.536	-34.260	-14.490	1.00	33.03	D	N
ATOM	15676	CA	SER	D	156	47.744	-33.837	-15.870	1.00	37.14	D	C
ATOM	15678	CB	SER	D	156	47.312	-32.387	-16.107	1.00	42.00	D	C
ATOM	15681	OG	SER	D	156	48.295	-31.473	-15.641	1.00	44.81	D	O
ATOM	15683	C	SER	D	156	49.212	-33.999	-16.221	1.00	37.76	D	C
ATOM	15684	O	SER	D	156	50.075	-34.027	-15.335	1.00	29.55	D	O
ATOM	15686	N	GLY	D	157	49.478	-34.112	-17.522	1.00	37.09	D	N
ATOM	15687	CA	GLY	D	157	50.830	-34.292	-18.036	1.00	37.74	D	C
ATOM	15690	C	GLY	D	157	51.270	-35.741	-18.145	1.00	39.38	D	C
ATOM	15691	O	GLY	D	157	52.274	-36.025	-18.792	1.00	43.20	D	O
ATOM	15693	N	ASN	D	158	50.521	-36.659	-17.532	1.00	38.65	D	N
ATOM	15694	CA	ASN	D	158	50.937	-38.063	-17.442	1.00	36.08	D	C
ATOM	15696	CB	ASN	D	158	51.246	-38.442	-15.977	1.00	35.48	D	C
ATOM	15699	CG	ASN	D	158	50.128	-38.074	-15.010	1.00	33.80	D	C
ATOM	15700	OD1	ASN	D	158	48.986	-37.842	-15.399	1.00	35.68	D	O
ATOM	15701	ND2	ASN	D	158	50.467	-38.020	-13.734	1.00	33.93	D	N

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ATOM	15704	C	ASN	D	158	49.954	-39.056	-18.072	1.00	34.29	D	C
ATOM	15705	O	ASN	D	158	50.002	-40.245	-17.777	1.00	33.25	D	O
ATOM	15707	N	SER	D	159	49.080	-38.565	-18.949	1.00	34.43	D	N
ATOM	15708	CA	SER	D	159	48.137	-39.424	-19.664	1.00	32.18	D	C
ATOM	15710	CB	SER	D	159	46.729	-39.364	-19.043	1.00	30.03	D	C
ATOM	15713	OG	SER	D	159	46.224	-38.042	-18.969	1.00	28.71	D	O
ATOM	15715	C	SER	D	159	48.088	-39.079	-21.147	1.00	32.21	D	C
ATOM	15716	O	SER	D	159	48.432	-37.963	-21.544	1.00	30.66	D	O
ATOM	15718	N	GLN	D	160	47.691	-40.065	-21.954	1.00	32.47	D	N
ATOM	15719	CA	GLN	D	160	47.448	-39.883	-23.386	1.00	30.75	D	C
ATOM	15721	CB	GLN	D	160	48.608	-40.438	-24.202	1.00	30.58	D	C
ATOM	15724	CG	GLN	D	160	49.943	-39.843	-23.843	1.00	31.86	D	C
ATOM	15727	CD	GLN	D	160	51.003	-40.138	-24.881	1.00	31.77	D	C
ATOM	15728	OE1	GLN	D	160	51.282	-39.310	-25.754	1.00	32.06	D	O
ATOM	15729	NE2	GLN	D	160	51.597	-41.321	-24.797	1.00	30.39	D	N
ATOM	15732	C	GLN	D	160	46.175	-40.599	-23.803	1.00	31.17	D	C
ATOM	15733	O	GLN	D	160	45.767	-41.566	-23.163	1.00	33.67	D	O
ATOM	15735	N	GLU	D	161	45.569	-40.123	-24.889	1.00	31.98	D	N
ATOM	15736	CA	GLU	D	161	44.319	-40.673	-25.406	1.00	31.46	D	C
ATOM	15738	CB	GLU	D	161	43.222	-39.619	-25.396	1.00	33.09	D	C
ATOM	15741	CG	GLU	D	161	42.811	-39.200	-24.023	1.00	35.15	D	C
ATOM	15744	CD	GLU	D	161	41.595	-38.298	-24.026	1.00	36.71	D	C
ATOM	15745	OE1	GLU	D	161	41.254	-37.730	-25.097	1.00	38.31	D	O
ATOM	15746	OE2	GLU	D	161	40.985	-38.155	-22.945	1.00	41.05	D	O
ATOM	15747	C	GLU	D	161	44.450	-41.179	-26.827	1.00	27.44	D	C
ATOM	15748	O	GLU	D	161	45.317	-40.748	-27.588	1.00	25.73	D	O
ATOM	15750	N	SER	D	162	43.562	-42.102	-27.164	1.00	27.69	D	N
ATOM	15751	CA	SER	D	162	43.418	-42.603	-28.512	1.00	28.23	D	C
ATOM	15753	CB	SER	D	162	44.196	-43.893	-28.658	1.00	30.31	D	C
ATOM	15756	OG	SER	D	162	44.415	-44.198	-30.010	1.00	30.35	D	O
ATOM	15758	C	SER	D	162	41.945	-42.869	-28.707	1.00	28.46	D	C
ATOM	15759	O	SER	D	162	41.287	-43.382	-27.804	1.00	27.71	D	O
ATOM	15761	N	VAL	D	163	41.406	-42.489	-29.858	1.00	30.04	D	N
ATOM	15762	CA	VAL	D	163	39.987	-42.682	-30.116	1.00	27.10	D	C
ATOM	15764	CB	VAL	D	163	39.246	-41.346	-30.259	1.00	27.85	D	C
ATOM	15766	CG1	VAL	D	163	37.750	-41.591	-30.378	1.00	28.84	D	C
ATOM	15770	CG2	VAL	D	163	39.537	-40.438	-29.062	1.00	28.04	D	C
ATOM	15774	C	VAL	D	163	39.850	-43.491	-31.385	1.00	27.06	D	C
ATOM	15775	O	VAL	D	163	40.619	-43.279	-32.324	1.00	25.24	D	O
ATOM	15777	N	THR	D	164	38.903	-44.432	-31.405	1.00	27.15	D	N
ATOM	15778	CA	THR	D	164	38.660	-45.235	-32.603	1.00	28.10	D	C
ATOM	15780	CB	THR	D	164	37.803	-46.520	-32.350	1.00	29.51	D	C
ATOM	15782	OG1	THR	D	164	36.661	-46.219	-31.535	1.00	34.64	D	O
ATOM	15784	CG2	THR	D	164	38.629	-47.628	-31.685	1.00	27.01	D	C
ATOM	15788	C	THR	D	164	37.946	-44.371	-33.615	1.00	32.43	D	C
ATOM	15789	O	THR	D	164	37.360	-43.342	-33.268	1.00	36.29	D	O
ATOM	15791	N	GLU	D	165	37.987	-44.781	-34.877	1.00	30.38	D	N
ATOM	15792	CA	GLU	D	165	37.078	-44.202	-35.834	1.00	31.13	D	C
ATOM	15794	CB	GLU	D	165	37.494	-44.494	-37.274	1.00	36.06	D	C
ATOM	15797	CG	GLU	D	165	38.190	-43.307	-37.948	1.00	44.65	D	C
ATOM	15800	CD	GLU	D	165	37.282	-42.063	-38.102	1.00	52.43	D	C
ATOM	15801	OE1	GLU	D	165	36.029	-42.203	-38.273	1.00	49.18	D	O
ATOM	15802	OE2	GLU	D	165	37.845	-40.938	-38.046	1.00	52.85	D	O
ATOM	15803	C	GLU	D	165	35.677	-44.718	-35.541	1.00	28.03	D	C
ATOM	15804	O	GLU	D	165	35.496	-45.702	-34.837	1.00	25.73	D	O
ATOM	15806	N	GLN	D	166	34.692	-44.036	-36.099	1.00	30.47	D	N
ATOM	15807	CA	GLN	D	166	33.297	-44.414	-35.934	1.00	30.73	D	C
ATOM	15809	CB	GLN	D	166	32.415	-43.488	-36.776	1.00	29.32	D	C
ATOM	15812	CG	GLN	D	166	30.991	-43.421	-36.326	1.00	30.43	D	C
ATOM	15815	CD	GLN	D	166	30.241	-42.266	-36.920	1.00	30.89	D	C
ATOM	15816	OE1	GLN	D	166	30.576	-41.766	-38.014	1.00	34.28	D	O
ATOM	15817	NE2	GLN	D	166	29.202	-41.839	-36.222	1.00	26.71	D	N
ATOM	15820	C	GLN	D	166	33.068	-45.883	-36.321	1.00	28.74	D	C
ATOM	15821	O	GLN	D	166	33.509	-46.338	-37.374	1.00	25.41	D	O
ATOM	15823	N	ASP	D	167	32.374	-46.614	-35.455	1.00	30.23	D	N
ATOM	15824	CA	ASP	D	167	32.185	-48.045	-35.637	1.00	28.99	D	C
ATOM	15826	CB	ASP	D	167	31.597	-48.686	-34.379	1.00	32.03	D	C
ATOM	15829	CG	ASP	D	167	31.454	-50.187	-34.510	1.00	32.07	D	C

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ATOM	15830	OD1	ASP	D	167	32.474	-50.908	-34.441	1.00	37.59	D	O
ATOM	15831	OD2	ASP	D	167	30.313	-50.644	-34.696	1.00	32.20	D	O
ATOM	15832	C	ASP	D	167	31.268	-48.303	-36.803	1.00	28.01	D	C
ATOM	15833	O	ASP	D	167	30.302	-47.574	-36.983	1.00	30.14	D	O
ATOM	15835	N	SER	D	168	31.568	-49.354	-37.575	1.00	28.72	D	N
ATOM	15836	CA	SER	D	168	30.867	-49.650	-38.828	1.00	29.80	D	C
ATOM	15838	CB	SER	D	168	31.730	-50.541	-39.733	1.00	31.87	D	C
ATOM	15841	OG	SER	D	168	31.876	-51.855	-39.185	1.00	29.49	D	O
ATOM	15843	C	SER	D	168	29.503	-50.309	-38.628	1.00	29.96	D	C
ATOM	15844	O	SER	D	168	28.778	-50.516	-39.599	1.00	30.34	D	O
ATOM	15846	N	LYS	D	169	29.158	-50.648	-37.384	1.00	33.12	D	N
ATOM	15847	CA	LYS	D	169	27.887	-51.301	-37.093	1.00	34.76	D	C
ATOM	15849	CB	LYS	D	169	28.115	-52.623	-36.356	1.00	39.32	D	C
ATOM	15852	CG	LYS	D	169	28.835	-53.652	-37.223	1.00	41.84	D	C
ATOM	15855	CD	LYS	D	169	28.988	-55.021	-36.555	1.00	43.16	D	C
ATOM	15858	CE	LYS	D	169	29.279	-56.106	-37.592	1.00	45.57	D	C
ATOM	15861	NZ	LYS	D	169	30.065	-55.586	-38.763	1.00	46.95	D	N
ATOM	15865	C	LYS	D	169	26.937	-50.408	-36.318	1.00	33.26	D	C
ATOM	15866	O	LYS	D	169	25.777	-50.289	-36.703	1.00	32.76	D	O
ATOM	15868	N	ASP	D	170	27.419	-49.777	-35.247	1.00	33.20	D	N
ATOM	15869	CA	ASP	D	170	26.569	-48.912	-34.424	1.00	36.00	D	C
ATOM	15871	CB	ASP	D	170	26.465	-49.449	-32.979	1.00	40.28	D	C
ATOM	15874	CG	ASP	D	170	27.785	-49.410	-32.221	1.00	42.24	D	C
ATOM	15875	OD1	ASP	D	170	28.727	-48.737	-32.678	1.00	42.34	D	O
ATOM	15876	OD2	ASP	D	170	27.871	-50.058	-31.152	1.00	45.54	D	O
ATOM	15877	C	ASP	D	170	26.948	-47.423	-34.443	1.00	33.34	D	C
ATOM	15878	O	ASP	D	170	26.369	-46.630	-33.703	1.00	33.74	D	O
ATOM	15880	N	SER	D	171	27.899	-47.046	-35.292	1.00	33.62	D	N
ATOM	15881	CA	SER	D	171	28.255	-45.632	-35.487	1.00	33.82	D	C
ATOM	15883	CB	SER	D	171	27.078	-44.863	-36.103	1.00	25.73	D	C
ATOM	15886	OG	SER	D	171	26.557	-45.586	-37.194	1.00	27.43	D	O
ATOM	15888	C	SER	D	171	28.732	-44.928	-34.207	1.00	32.41	D	C
ATOM	15889	O	SER	D	171	28.561	-43.715	-34.070	1.00	31.95	D	O
ATOM	15891	N	THR	D	172	29.348	-45.685	-33.296	1.00	32.89	D	N
ATOM	15892	CA	THR	D	172	29.850	-45.124	-32.034	1.00	29.07	D	C
ATOM	15894	CB	THR	D	172	29.399	-45.950	-30.806	1.00	29.96	D	C
ATOM	15896	OG1	THR	D	172	29.889	-47.290	-30.917	1.00	30.75	D	O
ATOM	15898	CG2	THR	D	172	27.865	-45.962	-30.675	1.00	25.69	D	C
ATOM	15902	C	THR	D	172	31.375	-44.995	-32.029	1.00	24.97	D	C
ATOM	15903	O	THR	D	172	32.068	-45.469	-32.927	1.00	26.50	D	O
ATOM	15905	N	TYR	D	173	31.879	-44.324	-31.004	1.00	28.98	D	N
ATOM	15906	CA	TYR	D	173	33.300	-44.157	-30.797	1.00	25.87	D	C
ATOM	15908	CB	TYR	D	173	33.625	-42.669	-30.676	1.00	28.62	D	C
ATOM	15911	CG	TYR	D	173	33.320	-41.861	-31.913	1.00	27.20	D	C
ATOM	15912	CD1	TYR	D	173	34.216	-41.820	-32.968	1.00	27.80	D	C
ATOM	15914	CE1	TYR	D	173	33.959	-41.072	-34.101	1.00	26.92	D	C
ATOM	15916	CZ	TYR	D	173	32.770	-40.360	-34.207	1.00	29.72	D	C
ATOM	15917	OH	TYR	D	173	32.514	-39.636	-35.353	1.00	28.75	D	O
ATOM	15919	CE2	TYR	D	173	31.856	-40.380	-33.174	1.00	29.12	D	C
ATOM	15921	CD2	TYR	D	173	32.137	-41.131	-32.027	1.00	29.23	D	C
ATOM	15923	C	TYR	D	173	33.731	-44.881	-29.531	1.00	27.51	D	C
ATOM	15924	O	TYR	D	173	32.929	-45.109	-28.621	1.00	29.23	D	O
ATOM	15926	N	SER	D	174	35.005	-45.246	-29.467	1.00	26.48	D	N
ATOM	15927	CA	SER	D	174	35.584	-45.769	-28.237	1.00	24.31	D	C
ATOM	15929	CB	SER	D	174	35.764	-47.287	-28.317	1.00	24.07	D	C
ATOM	15932	OG	SER	D	174	34.504	-47.933	-28.300	1.00	28.45	D	O
ATOM	15934	C	SER	D	174	36.906	-45.068	-27.952	1.00	19.92	D	C
ATOM	15935	O	SER	D	174	37.594	-44.642	-28.865	1.00	18.96	D	O
ATOM	15937	N	LEU	D	175	37.252	-44.949	-26.675	1.00	24.70	D	N
ATOM	15938	CA	LEU	D	175	38.438	-44.211	-26.285	1.00	25.47	D	C
ATOM	15940	CB	LEU	D	175	38.041	-42.815	-25.816	1.00	25.20	D	C
ATOM	15943	CG	LEU	D	175	39.119	-41.825	-25.364	1.00	22.37	D	C
ATOM	15945	CD1	LEU	D	175	38.727	-40.446	-25.867	1.00	25.49	D	C
ATOM	15949	CD2	LEU	D	175	39.301	-41.833	-23.846	1.00	23.33	D	C
ATOM	15953	C	LEU	D	175	39.204	-44.929	-25.195	1.00	26.86	D	C
ATOM	15954	O	LEU	D	175	38.613	-45.432	-24.237	1.00	25.28	D	O
ATOM	15956	N	SER	D	176	40.525	-44.974	-25.362	1.00	27.38	D	N
ATOM	15957	CA	SER	D	176	41.428	-45.410	-24.316	1.00	29.19	D	C

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ATOM	15959	CB	SER	D	176	42.442	-46.410	-24.859	1.00	33.77	D	C
ATOM	15962	OG	SER	D	176	43.403	-45.767	-25.680	1.00	37.34	D	O
ATOM	15964	C	SER	D	176	42.167	-44.203	-23.754	1.00	30.52	D	C
ATOM	15965	O	SER	D	176	42.667	-43.377	-24.514	1.00	30.01	D	O
ATOM	15967	N	SER	D	177	42.219	-44.111	-22.424	1.00	31.83	D	N
ATOM	15968	CA	SER	D	177	43.109	-43.184	-21.725	1.00	30.27	D	C
ATOM	15970	CB	SER	D	177	42.320	-42.275	-20.778	1.00	30.61	D	C
ATOM	15973	OG	SER	D	177	43.035	-41.079	-20.519	1.00	32.91	D	O
ATOM	15975	C	SER	D	177	44.118	-44.009	-20.930	1.00	30.59	D	C
ATOM	15976	O	SER	D	177	43.726	-44.911	-20.206	1.00	29.89	D	O
ATOM	15978	N	THR	D	178	45.405	-43.693	-21.070	1.00	28.97	D	N
ATOM	15979	CA	THR	D	178	46.458	-44.406	-20.377	1.00	28.38	D	C
ATOM	15981	CB	THR	D	178	47.406	-45.101	-21.387	1.00	29.09	D	C
ATOM	15983	OG1	THR	D	178	46.634	-45.953	-22.242	1.00	31.29	D	O
ATOM	15985	CG2	THR	D	178	48.480	-45.940	-20.669	1.00	28.86	D	C
ATOM	15989	C	THR	D	178	47.245	-43.469	-19.451	1.00	28.06	D	C
ATOM	15990	O	THR	D	178	47.981	-42.607	-19.923	1.00	27.36	D	O
ATOM	15992	N	LEU	D	179	47.072	-43.649	-18.136	1.00	26.29	D	N
ATOM	15993	CA	LEU	D	179	47.867	-42.945	-17.113	1.00	26.08	D	C
ATOM	15995	CB	LEU	D	179	47.086	-42.861	-15.791	1.00	25.21	D	C
ATOM	15998	CG	LEU	D	179	47.722	-42.138	-14.599	1.00	26.26	D	C
ATOM	16000	CD1	LEU	D	179	47.712	-40.632	-14.814	1.00	28.61	D	C
ATOM	16004	CD2	LEU	D	179	47.002	-42.500	-13.311	1.00	25.59	D	C
ATOM	16008	C	LEU	D	179	49.169	-43.702	-16.897	1.00	27.09	D	C
ATOM	16009	O	LEU	D	179	49.139	-44.900	-16.613	1.00	27.94	D	O
ATOM	16011	N	THR	D	180	50.309	-43.021	-17.045	1.00	30.50	D	N
ATOM	16012	CA	THR	D	180	51.626	-43.654	-16.854	1.00	30.60	D	C
ATOM	16014	CB	THR	D	180	52.514	-43.543	-18.121	1.00	32.67	D	C
ATOM	16016	OG1	THR	D	180	51.854	-44.176	-19.228	1.00	33.88	D	O
ATOM	16018	CG2	THR	D	180	53.866	-44.228	-17.902	1.00	30.78	D	C
ATOM	16022	C	THR	D	180	52.371	-43.102	-15.622	1.00	31.85	D	C
ATOM	16023	O	THR	D	180	52.488	-41.880	-15.427	1.00	29.00	D	O
ATOM	16025	N	LEU	D	181	52.858	-44.027	-14.794	1.00	32.12	D	N
ATOM	16026	CA	LEU	D	181	53.596	-43.712	-13.569	1.00	33.43	D	C
ATOM	16028	CB	LEU	D	181	52.731	-44.015	-12.339	1.00	31.62	D	C
ATOM	16031	CG	LEU	D	181	51.864	-42.899	-11.756	1.00	29.87	D	C
ATOM	16033	CD1	LEU	D	181	50.536	-42.775	-12.449	1.00	25.58	D	C
ATOM	16037	CD2	LEU	D	181	51.648	-43.164	-10.271	1.00	32.46	D	C
ATOM	16041	C	LEU	D	181	54.880	-44.534	-13.476	1.00	34.17	D	C
ATOM	16042	O	LEU	D	181	55.022	-45.561	-14.135	1.00	33.85	D	O
ATOM	16044	N	SER	D	182	55.818	-44.084	-12.648	1.00	38.37	D	N
ATOM	16045	CA	SER	D	182	56.928	-44.941	-12.240	1.00	39.27	D	C
ATOM	16047	CB	SER	D	182	58.045	-44.123	-11.593	1.00	40.02	D	C
ATOM	16050	OG	SER	D	182	57.671	-43.690	-10.296	1.00	42.36	D	O
ATOM	16052	C	SER	D	182	56.377	-45.953	-11.243	1.00	39.75	D	C
ATOM	16053	O	SER	D	182	55.328	-45.726	-10.639	1.00	37.90	D	O
ATOM	16055	N	LYS	D	183	57.078	-47.070	-11.074	1.00	43.74	D	N
ATOM	16056	CA	LYS	D	183	56.732	-48.040	-10.035	1.00	44.36	D	C
ATOM	16058	CB	LYS	D	183	57.684	-49.240	-10.069	1.00	44.77	D	C
ATOM	16061	CG	LYS	D	183	57.254	-50.413	-9.191	1.00	44.98	D	C
ATOM	16064	CD	LYS	D	183	58.378	-51.442	-9.035	1.00	45.67	D	C
ATOM	16067	CE	LYS	D	183	57.968	-52.587	-8.120	1.00	45.92	D	C
ATOM	16070	NZ	LYS	D	183	57.676	-52.116	-6.729	1.00	45.82	D	N
ATOM	16074	C	LYS	D	183	56.796	-47.355	-8.669	1.00	46.88	D	C
ATOM	16075	O	LYS	D	183	55.909	-47.539	-7.829	1.00	47.63	D	O
ATOM	16077	N	ALA	D	184	57.848	-46.564	-8.462	1.00	46.70	D	N
ATOM	16078	CA	ALA	D	184	58.023	-45.801	-7.226	1.00	45.20	D	C
ATOM	16080	CB	ALA	D	184	59.250	-44.890	-7.332	1.00	46.92	D	C
ATOM	16084	C	ALA	D	184	56.786	-44.973	-6.884	1.00	44.41	D	C
ATOM	16085	O	ALA	D	184	56.285	-45.034	-5.762	1.00	41.87	D	O
ATOM	16087	N	ASP	D	185	56.289	-44.212	-7.855	1.00	43.99	D	N
ATOM	16088	CA	ASP	D	185	55.181	-43.293	-7.606	1.00	42.27	D	C
ATOM	16090	CB	ASP	D	185	55.165	-42.173	-8.653	1.00	44.69	D	C
ATOM	16093	CG	ASP	D	185	54.563	-40.883	-8.116	1.00	49.02	D	C
ATOM	16094	OD1	ASP	D	185	53.582	-40.385	-8.714	1.00	50.64	D	O
ATOM	16095	OD2	ASP	D	185	55.065	-40.369	-7.086	1.00	50.57	D	O
ATOM	16096	C	ASP	D	185	53.824	-44.011	-7.547	1.00	40.11	D	C
ATOM	16097	O	ASP	D	185	52.938	-43.587	-6.807	1.00	38.69	D	O

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ATOM	16099	N	TYR	D	186	53.670	-45.094	-8.313	1.00	37.25	D	N
ATOM	16100	CA	TYR	D	186	52.436	-45.893	-8.300	1.00	36.60	D	C
ATOM	16102	CB	TYR	D	186	52.461	-46.973	-9.397	1.00	34.06	D	C
ATOM	16105	CG	TYR	D	186	51.267	-47.919	-9.363	1.00	33.86	D	C
ATOM	16106	CD1	TYR	D	186	49.988	-47.473	-9.678	1.00	33.27	D	C
ATOM	16108	CE1	TYR	D	186	48.887	-48.333	-9.645	1.00	32.91	D	C
ATOM	16110	CZ	TYR	D	186	49.067	-49.656	-9.289	1.00	34.12	D	C
ATOM	16111	OH	TYR	D	186	47.989	-50.506	-9.240	1.00	34.03	D	O
ATOM	16113	CE2	TYR	D	186	50.329	-50.128	-8.976	1.00	32.80	D	C
ATOM	16115	CD2	TYR	D	186	51.421	-49.261	-9.017	1.00	33.55	D	C
ATOM	16117	C	TYR	D	186	52.168	-46.536	-6.930	1.00	35.62	D	C
ATOM	16118	O	TYR	D	186	51.053	-46.460	-6.417	1.00	32.60	D	O
ATOM	16120	N	GLU	D	187	53.197	-47.145	-6.339	1.00	37.51	D	N
ATOM	16121	CA	GLU	D	187	53.074	-47.832	-5.033	1.00	40.24	D	C
ATOM	16123	CB	GLU	D	187	54.318	-48.695	-4.753	1.00	44.53	D	C
ATOM	16126	CG	GLU	D	187	54.672	-49.730	-5.834	1.00	48.07	D	C
ATOM	16129	CD	GLU	D	187	53.838	-50.999	-5.764	1.00	50.87	D	C
ATOM	16130	OE1	GLU	D	187	52.691	-50.949	-5.262	1.00	51.16	D	O
ATOM	16131	OE2	GLU	D	187	54.332	-52.051	-6.229	1.00	52.56	D	O
ATOM	16132	C	GLU	D	187	52.868	-46.861	-3.852	1.00	39.07	D	C
ATOM	16133	O	GLU	D	187	52.556	-47.277	-2.738	1.00	37.05	D	O
ATOM	16135	N	LYS	D	188	53.055	-45.574	-4.120	1.00	40.18	D	N
ATOM	16136	CA	LYS	D	188	52.930	-44.494	-3.142	1.00	39.27	D	C
ATOM	16138	CB	LYS	D	188	53.542	-43.233	-3.775	1.00	41.65	D	C
ATOM	16141	CG	LYS	D	188	54.252	-42.270	-2.865	1.00	43.39	D	C
ATOM	16144	CD	LYS	D	188	54.604	-40.995	-3.642	1.00	43.40	D	C
ATOM	16147	CE	LYS	D	188	55.868	-40.335	-3.109	1.00	44.77	D	C
ATOM	16150	NZ	LYS	D	188	57.085	-41.089	-3.532	1.00	46.07	D	N
ATOM	16154	C	LYS	D	188	51.463	-44.213	-2.746	1.00	38.41	D	C
ATOM	16155	O	LYS	D	188	51.188	-43.743	-1.630	1.00	34.22	D	O
ATOM	16157	N	HIS	D	189	50.531	-44.494	-3.667	1.00	37.82	D	N
ATOM	16158	CA	HIS	D	189	49.127	-44.058	-3.547	1.00	36.28	D	C
ATOM	16160	CB	HIS	D	189	48.822	-43.007	-4.629	1.00	35.79	D	C
ATOM	16163	CG	HIS	D	189	49.745	-41.821	-4.602	1.00	36.10	D	C
ATOM	16164	ND1	HIS	D	189	49.762	-40.909	-3.564	1.00	36.34	D	N
ATOM	16166	CE1	HIS	D	189	50.674	-39.982	-3.809	1.00	36.94	D	C
ATOM	16168	NE2	HIS	D	189	51.243	-40.255	-4.972	1.00	35.63	D	N
ATOM	16170	CD2	HIS	D	189	50.679	-41.397	-5.489	1.00	33.77	D	C
ATOM	16172	C	HIS	D	189	48.132	-45.234	-3.621	1.00	34.10	D	C
ATOM	16173	O	HIS	D	189	48.481	-46.325	-4.069	1.00	31.99	D	O
ATOM	16175	N	LYS	D	190	46.894	-45.004	-3.181	1.00	34.90	D	N
ATOM	16176	CA	LYS	D	190	45.894	-46.077	-3.047	1.00	36.79	D	C
ATOM	16178	CB	LYS	D	190	45.215	-45.991	-1.671	1.00	38.91	D	C
ATOM	16181	CG	LYS	D	190	44.106	-47.030	-1.425	1.00	38.77	D	C
ATOM	16184	CD	LYS	D	190	43.619	-46.998	0.031	1.00	40.74	D	C
ATOM	16187	CE	LYS	D	190	42.582	-48.087	0.333	1.00	41.42	D	C
ATOM	16190	NZ	LYS	D	190	42.602	-48.512	1.771	1.00	39.05	D	N
ATOM	16194	C	LYS	D	190	44.823	-46.056	-4.137	1.00	38.54	D	C
ATOM	16195	O	LYS	D	190	44.696	-47.007	-4.913	1.00	39.33	D	O
ATOM	16197	N	VAL	D	191	44.053	-44.968	-4.170	1.00	37.39	D	N
ATOM	16198	CA	VAL	D	191	42.872	-44.854	-5.023	1.00	34.04	D	C
ATOM	16200	CB	VAL	D	191	41.814	-43.901	-4.407	1.00	33.29	D	C
ATOM	16202	CG1	VAL	D	191	40.522	-43.924	-5.228	1.00	30.42	D	C
ATOM	16206	CG2	VAL	D	191	41.551	-44.249	-2.922	1.00	30.00	D	C
ATOM	16210	C	VAL	D	191	43.258	-44.315	-6.395	1.00	34.11	D	C
ATOM	16211	O	VAL	D	191	43.824	-43.223	-6.502	1.00	33.76	D	O
ATOM	16213	N	TYR	D	192	42.951	-45.096	-7.431	1.00	32.52	D	N
ATOM	16214	CA	TYR	D	192	43.135	-44.689	-8.820	1.00	30.69	D	C
ATOM	16216	CB	TYR	D	192	44.060	-45.676	-9.536	1.00	28.33	D	C
ATOM	16219	CG	TYR	D	192	45.498	-45.483	-9.122	1.00	27.51	D	C
ATOM	16220	CD1	TYR	D	192	46.376	-44.740	-9.904	1.00	27.16	D	C
ATOM	16222	CE1	TYR	D	192	47.686	-44.544	-9.517	1.00	27.83	D	C
ATOM	16224	CZ	TYR	D	192	48.130	-45.078	-8.318	1.00	26.98	D	C
ATOM	16225	OH	TYR	D	192	49.424	-44.885	-7.919	1.00	26.79	D	O
ATOM	16227	CE2	TYR	D	192	47.279	-45.805	-7.522	1.00	28.45	D	C
ATOM	16229	CD2	TYR	D	192	45.964	-45.998	-7.927	1.00	29.20	D	C
ATOM	16231	C	TYR	D	192	41.776	-44.615	-9.490	1.00	27.53	D	C
ATOM	16232	O	TYR	D	192	41.050	-45.599	-9.518	1.00	24.27	D	O

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ATOM	16234	N	ALA	D	193	41.432	-43.438	-10.013	1.00	30.95	D	N
ATOM	16235	CA	ALA	D	193	40.110	-43.192	-10.587	1.00	32.32	D	C
ATOM	16237	CB	ALA	D	193	39.261	-42.390	-9.598	1.00	29.12	D	C
ATOM	16241	C	ALA	D	193	40.204	-42.450	-11.915	1.00	31.75	D	C
ATOM	16242	O	ALA	D	193	40.863	-41.418	-12.001	1.00	29.95	D	O
ATOM	16244	N	CYS	D	194	39.559	-42.972	-12.955	1.00	38.65	D	N
ATOM	16245	CA	CYS	D	194	39.306	-42.167	-14.150	1.00	38.12	D	C
ATOM	16247	CB	CYS	D	194	39.603	-42.925	-15.456	1.00	41.97	D	C
ATOM	16250	SG	CYS	D	194	38.380	-44.133	-15.993	1.00	45.44	D	S
ATOM	16252	C	CYS	D	194	37.864	-41.667	-14.069	1.00	38.55	D	C
ATOM	16253	O	CYS	D	194	36.938	-42.445	-13.825	1.00	35.85	D	O
ATOM	16255	N	GLU	D	195	37.699	-40.354	-14.225	1.00	41.02	D	N
ATOM	16256	CA	GLU	D	195	36.393	-39.700	-14.172	1.00	40.19	D	C
ATOM	16258	CB	GLU	D	195	36.441	-38.461	-13.267	1.00	41.74	D	C
ATOM	16261	CG	GLU	D	195	35.075	-37.797	-13.038	1.00	43.78	D	C
ATOM	16264	CD	GLU	D	195	35.168	-36.370	-12.504	1.00	44.86	D	C
ATOM	16265	OE1	GLU	D	195	35.699	-35.487	-13.220	1.00	45.69	D	O
ATOM	16266	OE2	GLU	D	195	34.677	-36.130	-11.379	1.00	45.42	D	O
ATOM	16267	C	GLU	D	195	36.008	-39.296	-15.589	1.00	36.20	D	C
ATOM	16268	O	GLU	D	195	36.749	-38.578	-16.256	1.00	33.18	D	O
ATOM	16270	N	VAL	D	196	34.840	-39.746	-16.036	1.00	36.84	D	N
ATOM	16271	CA	VAL	D	196	34.418	-39.564	-17.421	1.00	37.63	D	C
ATOM	16273	CB	VAL	D	196	34.080	-40.921	-18.076	1.00	36.55	D	C
ATOM	16275	CG1	VAL	D	196	33.663	-40.725	-19.529	1.00	36.34	D	C
ATOM	16279	CG2	VAL	D	196	35.279	-41.875	-17.980	1.00	35.41	D	C
ATOM	16283	C	VAL	D	196	33.220	-38.612	-17.530	1.00	36.83	D	C
ATOM	16284	O	VAL	D	196	32.188	-38.821	-16.883	1.00	33.70	D	O
ATOM	16286	N	THR	D	197	33.378	-37.565	-18.344	1.00	38.36	D	N
ATOM	16287	CA	THR	D	197	32.293	-36.626	-18.666	1.00	37.73	D	C
ATOM	16289	CB	THR	D	197	32.710	-35.166	-18.387	1.00	38.84	D	C
ATOM	16291	OG1	THR	D	197	33.022	-35.015	-16.999	1.00	38.26	D	O
ATOM	16293	CG2	THR	D	197	31.590	-34.193	-18.761	1.00	39.70	D	C
ATOM	16297	C	THR	D	197	31.900	-36.750	-20.139	1.00	37.89	D	C
ATOM	16298	O	THR	D	197	32.755	-36.762	-21.022	1.00	33.38	D	O
ATOM	16300	N	HIS	D	198	30.598	-36.834	-20.394	1.00	39.44	D	N
ATOM	16301	CA	HIS	D	198	30.074	-36.974	-21.748	1.00	38.43	D	C
ATOM	16303	CB	HIS	D	198	30.194	-38.443	-22.199	1.00	37.37	D	C
ATOM	16306	CG	HIS	D	198	29.631	-38.721	-23.564	1.00	35.05	D	C
ATOM	16307	ND1	HIS	D	198	30.320	-38.455	-24.729	1.00	32.61	D	N
ATOM	16309	CE1	HIS	D	198	29.580	-38.807	-25.763	1.00	31.14	D	C
ATOM	16311	NE2	HIS	D	198	28.439	-39.297	-25.314	1.00	33.29	D	N
ATOM	16313	CD2	HIS	D	198	28.452	-39.264	-23.941	1.00	33.34	D	C
ATOM	16315	C	HIS	D	198	28.623	-36.474	-21.793	1.00	41.74	D	C
ATOM	16316	O	HIS	D	198	27.922	-36.476	-20.769	1.00	38.95	D	O
ATOM	16318	N	GLN	D	199	28.191	-36.030	-22.974	1.00	43.67	D	N
ATOM	16319	CA	GLN	D	199	26.853	-35.463	-23.160	1.00	43.93	D	C
ATOM	16321	CB	GLN	D	199	26.648	-35.061	-24.627	1.00	46.28	D	C
ATOM	16324	CG	GLN	D	199	25.225	-34.605	-24.954	1.00	48.17	D	C
ATOM	16327	CD	GLN	D	199	25.081	-34.033	-26.347	1.00	50.85	D	C
ATOM	16328	OE1	GLN	D	199	26.046	-33.967	-27.115	1.00	54.41	D	O
ATOM	16329	NE2	GLN	D	199	23.860	-33.620	-26.687	1.00	54.51	D	N
ATOM	16332	C	GLN	D	199	25.738	-36.413	-22.714	1.00	43.84	D	C
ATOM	16333	O	GLN	D	199	24.764	-35.983	-22.106	1.00	48.58	D	O
ATOM	16335	N	GLY	D	200	25.888	-37.699	-23.021	1.00	42.80	D	N
ATOM	16336	CA	GLY	D	200	24.913	-38.732	-22.645	1.00	41.96	D	C
ATOM	16339	C	GLY	D	200	24.961	-39.217	-21.205	1.00	40.62	D	C
ATOM	16340	O	GLY	D	200	24.310	-40.206	-20.865	1.00	38.70	D	O
ATOM	16342	N	LEU	D	201	25.741	-38.532	-20.368	1.00	42.21	D	N
ATOM	16343	CA	LEU	D	201	25.808	-38.803	-18.937	1.00	41.75	D	C
ATOM	16345	CB	LEU	D	201	27.255	-39.068	-18.508	1.00	35.33	D	C
ATOM	16348	CG	LEU	D	201	27.876	-40.399	-18.933	1.00	30.90	D	C
ATOM	16350	CD1	LEU	D	201	29.348	-40.445	-18.555	1.00	24.45	D	C
ATOM	16354	CD2	LEU	D	201	27.123	-41.586	-18.339	1.00	31.71	D	C
ATOM	16358	C	LEU	D	201	25.263	-37.590	-18.182	1.00	46.14	D	C
ATOM	16359	O	LEU	D	201	25.722	-36.464	-18.403	1.00	46.98	D	O
ATOM	16361	N	SER	D	202	24.288	-37.827	-17.297	1.00	48.27	D	N
ATOM	16362	CA	SER	D	202	23.693	-36.763	-16.476	1.00	49.04	D	C
ATOM	16364	CB	SER	D	202	22.461	-37.278	-15.713	1.00	51.12	D	C

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ATOM	16367	OG	SER	D	202	22.714	-38.523	-15.078	1.00	51.09	D	O
ATOM	16369	C	SER	D	202	24.735	-36.175	-15.513	1.00	50.73	D	C
ATOM	16370	O	SER	D	202	24.909	-34.957	-15.440	1.00	51.01	D	O
ATOM	16372	N	SER	D	203	25.428	-37.046	-14.787	1.00	49.62	D	N
ATOM	16373	CA	SER	D	203	26.593	-36.641	-14.004	1.00	49.43	D	C
ATOM	16375	CB	SER	D	203	26.290	-36.699	-12.502	1.00	50.66	D	C
ATOM	16378	OG	SER	D	203	25.822	-37.982	-12.112	1.00	51.17	D	O
ATOM	16380	C	SER	D	203	27.784	-37.540	-14.359	1.00	49.42	D	C
ATOM	16381	O	SER	D	203	27.587	-38.680	-14.791	1.00	51.11	D	O
ATOM	16383	N	PRO	D	204	29.023	-37.028	-14.194	1.00	47.80	D	N
ATOM	16384	CA	PRO	D	204	30.223	-37.823	-14.468	1.00	46.13	D	C
ATOM	16386	CB	PRO	D	204	31.363	-36.904	-14.017	1.00	45.04	D	C
ATOM	16389	CG	PRO	D	204	30.817	-35.547	-14.147	1.00	45.68	D	C
ATOM	16392	CD	PRO	D	204	29.373	-35.659	-13.775	1.00	46.28	D	C
ATOM	16395	C	PRO	D	204	30.292	-39.151	-13.713	1.00	46.65	D	C
ATOM	16396	O	PRO	D	204	29.969	-39.208	-12.523	1.00	47.98	D	O
ATOM	16397	N	VAL	D	205	30.712	-40.201	-14.418	1.00	45.61	D	N
ATOM	16398	CA	VAL	D	205	30.868	-41.535	-13.847	1.00	42.96	D	C
ATOM	16400	CB	VAL	D	205	30.379	-42.635	-14.826	1.00	45.57	D	C
ATOM	16402	CG1	VAL	D	205	30.367	-44.003	-14.145	1.00	47.04	D	C
ATOM	16406	CG2	VAL	D	205	28.994	-42.300	-15.370	1.00	47.22	D	C
ATOM	16410	C	VAL	D	205	32.345	-41.767	-13.543	1.00	42.43	D	C
ATOM	16411	O	VAL	D	205	33.198	-41.585	-14.414	1.00	40.17	D	O
ATOM	16413	N	THR	D	206	32.639	-42.146	-12.298	1.00	41.03	D	N
ATOM	16414	CA	THR	D	206	33.983	-42.532	-11.895	1.00	38.54	D	C
ATOM	16416	CB	THR	D	206	34.381	-41.909	-10.533	1.00	39.58	D	C
ATOM	16418	OG1	THR	D	206	34.270	-40.483	-10.607	1.00	41.40	D	O
ATOM	16420	CG2	THR	D	206	35.811	-42.271	-10.161	1.00	38.33	D	C
ATOM	16424	C	THR	D	206	34.041	-44.051	-11.794	1.00	35.16	D	C
ATOM	16425	O	THR	D	206	33.097	-44.693	-11.324	1.00	31.19	D	O
ATOM	16427	N	LYS	D	207	35.141	-44.612	-12.282	1.00	33.94	D	N
ATOM	16428	CA	LYS	D	207	35.494	-45.999	-12.045	1.00	34.16	D	C
ATOM	16430	CB	LYS	D	207	35.602	-46.792	-13.351	1.00	37.15	D	C
ATOM	16433	CG	LYS	D	207	34.285	-46.987	-14.096	1.00	37.18	D	C
ATOM	16436	CD	LYS	D	207	33.360	-47.969	-13.373	1.00	38.88	D	C
ATOM	16439	CE	LYS	D	207	32.006	-48.076	-14.070	1.00	39.50	D	C
ATOM	16442	NZ	LYS	D	207	30.967	-48.701	-13.215	1.00	39.35	D	N
ATOM	16446	C	LYS	D	207	36.833	-45.945	-11.342	1.00	32.99	D	C
ATOM	16447	O	LYS	D	207	37.758	-45.289	-11.819	1.00	28.90	D	O
ATOM	16449	N	SER	D	208	36.927	-46.596	-10.188	1.00	32.63	D	N
ATOM	16450	CA	SER	D	208	38.166	-46.589	-9.423	1.00	34.88	D	C
ATOM	16452	CB	SER	D	208	38.057	-45.619	-8.238	1.00	35.83	D	C
ATOM	16455	OG	SER	D	208	36.774	-45.672	-7.627	1.00	37.02	D	O
ATOM	16457	C	SER	D	208	38.556	-47.982	-8.946	1.00	35.88	D	C
ATOM	16458	O	SER	D	208	37.736	-48.899	-8.930	1.00	37.55	D	O
ATOM	16460	N	PHE	D	209	39.832	-48.134	-8.597	1.00	35.66	D	N
ATOM	16461	CA	PHE	D	209	40.308	-49.315	-7.895	1.00	34.47	D	C
ATOM	16463	CB	PHE	D	209	40.938	-50.320	-8.859	1.00	30.65	D	C
ATOM	16466	CG	PHE	D	209	42.191	-49.831	-9.519	1.00	29.51	D	C
ATOM	16467	CD1	PHE	D	209	43.409	-49.875	-8.857	1.00	29.10	D	C
ATOM	16469	CE1	PHE	D	209	44.572	-49.430	-9.470	1.00	30.20	D	C
ATOM	16471	CZ	PHE	D	209	44.525	-48.953	-10.761	1.00	29.49	D	C
ATOM	16473	CE2	PHE	D	209	43.319	-48.917	-11.435	1.00	29.96	D	C
ATOM	16475	CD2	PHE	D	209	42.160	-49.356	-10.818	1.00	29.38	D	C
ATOM	16477	C	PHE	D	209	41.306	-48.916	-6.810	1.00	37.09	D	C
ATOM	16478	O	PHE	D	209	42.036	-47.934	-6.962	1.00	39.98	D	O
ATOM	16480	N	ASN	D	210	41.318	-49.681	-5.720	1.00	37.21	D	N
ATOM	16481	CA	ASN	D	210	42.311	-49.521	-4.651	1.00	34.25	D	C
ATOM	16483	CB	ASN	D	210	41.704	-49.888	-3.304	1.00	33.38	D	C
ATOM	16486	CG	ASN	D	210	40.571	-48.978	-2.904	1.00	33.17	D	C
ATOM	16487	OD1	ASN	D	210	40.398	-47.896	-3.457	1.00	33.54	D	O
ATOM	16488	ND2	ASN	D	210	39.793	-49.411	-1.920	1.00	34.26	D	N
ATOM	16491	C	ASN	D	210	43.508	-50.420	-4.934	1.00	30.44	D	C
ATOM	16492	O	ASN	D	210	43.351	-51.630	-5.103	1.00	28.02	D	O
ATOM	16494	N	ARG	D	211	44.699	-49.835	-4.990	1.00	30.03	D	N
ATOM	16495	CA	ARG	D	211	45.892	-50.582	-5.377	1.00	35.18	D	C
ATOM	16497	CB	ARG	D	211	47.103	-49.657	-5.393	1.00	33.25	D	C
ATOM	16500	CG	ARG	D	211	48.376	-50.345	-5.845	1.00	31.85	D	C

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ATOM	16503	CD	ARG	D	211	49.564	-49.417	-5.759	1.00	31.50	D	C
ATOM	16506	NE	ARG	D	211	49.639	-48.772	-4.458	1.00	30.34	D	N
ATOM	16508	CZ	ARG	D	211	49.947	-49.402	-3.325	1.00	30.43	D	C
ATOM	16509	NH1	ARG	D	211	50.247	-50.696	-3.320	1.00	29.16	D	N
ATOM	16512	NH2	ARG	D	211	49.972	-48.722	-2.189	1.00	28.99	D	N
ATOM	16515	C	ARG	D	211	46.176	-51.777	-4.456	1.00	41.18	D	C
ATOM	16516	O	ARG	D	211	46.447	-51.600	-3.264	1.00	43.62	D	O
ATOM	16518	N	GLY	D	212	46.124	-52.985	-5.019	1.00	45.70	D	N
ATOM	16519	CA	GLY	D	212	46.390	-54.215	-4.263	1.00	45.88	D	C
ATOM	16522	C	GLY	D	212	45.244	-54.612	-3.347	1.00	48.12	D	C
ATOM	16523	O	GLY	D	212	45.450	-54.831	-2.150	1.00	48.60	D	O
ATOM	16525	N	GLU	D	213	44.038	-54.699	-3.915	1.00	49.33	D	N
ATOM	16526	CA	GLU	D	213	42.822	-55.053	-3.169	1.00	49.58	D	C
ATOM	16528	CB	GLU	D	213	42.228	-53.815	-2.483	1.00	51.00	D	C
ATOM	16531	CG	GLU	D	213	43.007	-53.338	-1.243	1.00	52.20	D	C
ATOM	16534	CD	GLU	D	213	42.317	-52.210	-0.485	1.00	50.89	D	C
ATOM	16535	OE1	GLU	D	213	41.126	-51.939	-0.755	1.00	52.48	D	O
ATOM	16536	OE2	GLU	D	213	42.974	-51.588	0.379	1.00	46.68	D	O
ATOM	16537	C	GLU	D	213	41.757	-55.688	-4.069	1.00	48.61	D	C
ATOM	16538	O	GLU	D	213	42.032	-56.091	-5.201	1.00	45.50	D	O
ATOM	16540	N	GLU	E	1	43.361	-66.395	-59.205	1.00	45.81	E	N
ATOM	16541	CA	GLU	E	1	43.110	-65.205	-58.342	1.00	42.61	E	C
ATOM	16543	CB	GLU	E	1	43.050	-65.629	-56.876	1.00	47.52	E	C
ATOM	16546	CG	GLU	E	1	42.731	-64.499	-55.890	1.00	50.47	E	C
ATOM	16549	CD	GLU	E	1	43.429	-64.670	-54.529	1.00	54.38	E	C
ATOM	16550	OE1	GLU	E	1	43.597	-65.826	-54.060	1.00	59.16	E	O
ATOM	16551	OE2	GLU	E	1	43.814	-63.638	-53.928	1.00	58.37	E	O
ATOM	16552	C	GLU	E	1	44.240	-64.207	-58.525	1.00	36.60	E	C
ATOM	16553	O	GLU	E	1	45.401	-64.573	-58.404	1.00	36.70	E	O
ATOM	16557	N	VAL	E	2	43.903	-62.953	-58.817	1.00	34.34	E	N
ATOM	16558	CA	VAL	E	2	44.896	-61.878	-58.869	1.00	31.82	E	C
ATOM	16560	CB	VAL	E	2	44.314	-60.623	-59.526	1.00	28.68	E	C
ATOM	16562	CG1	VAL	E	2	45.290	-59.438	-59.404	1.00	24.69	E	C
ATOM	16566	CG2	VAL	E	2	43.993	-60.927	-60.973	1.00	26.92	E	C
ATOM	16570	C	VAL	E	2	45.441	-61.538	-57.471	1.00	31.24	E	C
ATOM	16571	O	VAL	E	2	44.677	-61.246	-56.539	1.00	26.34	E	O
ATOM	16573	N	GLN	E	3	46.763	-61.607	-57.328	1.00	29.40	E	N
ATOM	16574	CA	GLN	E	3	47.428	-61.205	-56.110	1.00	32.39	E	C
ATOM	16576	CB	GLN	E	3	48.029	-62.417	-55.402	1.00	37.61	E	C
ATOM	16579	CG	GLN	E	3	47.121	-63.080	-54.390	1.00	40.10	E	C
ATOM	16582	CD	GLN	E	3	47.828	-64.214	-53.667	1.00	44.10	E	C
ATOM	16583	OE1	GLN	E	3	47.745	-65.376	-54.080	1.00	45.91	E	O
ATOM	16584	NE2	GLN	E	3	48.565	-63.875	-52.602	1.00	48.83	E	N
ATOM	16587	C	GLN	E	3	48.533	-60.205	-56.391	1.00	30.41	E	C
ATOM	16588	O	GLN	E	3	49.308	-60.369	-57.342	1.00	26.65	E	O
ATOM	16590	N	LEU	E	4	48.576	-59.171	-55.551	1.00	30.61	E	N
ATOM	16591	CA	LEU	E	4	49.668	-58.196	-55.491	1.00	28.61	E	C
ATOM	16593	CB	LEU	E	4	49.167	-56.791	-55.848	1.00	28.10	E	C
ATOM	16596	CG	LEU	E	4	48.654	-56.615	-57.281	1.00	29.88	E	C
ATOM	16598	CD1	LEU	E	4	48.294	-55.192	-57.529	1.00	28.48	E	C
ATOM	16602	CD2	LEU	E	4	49.682	-57.115	-58.307	1.00	27.51	E	C
ATOM	16606	C	LEU	E	4	50.214	-58.199	-54.070	1.00	26.28	E	C
ATOM	16607	O	LEU	E	4	49.516	-57.775	-53.155	1.00	26.99	E	O
ATOM	16609	N	VAL	E	5	51.442	-58.696	-53.884	1.00	24.82	E	N
ATOM	16610	CA	VAL	E	5	52.037	-58.824	-52.549	1.00	25.39	E	C
ATOM	16612	CB	VAL	E	5	52.422	-60.302	-52.212	1.00	28.03	E	C
ATOM	16614	CG1	VAL	E	5	52.860	-60.443	-50.734	1.00	23.12	E	C
ATOM	16618	CG2	VAL	E	5	51.253	-61.242	-52.530	1.00	24.65	E	C
ATOM	16622	C	VAL	E	5	53.248	-57.901	-52.415	1.00	26.85	E	C
ATOM	16623	O	VAL	E	5	54.261	-58.078	-53.085	1.00	29.63	E	O
ATOM	16625	N	GLN	E	6	53.120	-56.899	-51.555	1.00	28.37	E	N
ATOM	16626	CA	GLN	E	6	54.185	-55.925	-51.348	1.00	26.85	E	C
ATOM	16628	CB	GLN	E	6	53.602	-54.535	-51.083	1.00	27.34	E	C
ATOM	16631	CG	GLN	E	6	53.048	-53.905	-52.318	1.00	23.89	E	C
ATOM	16634	CD	GLN	E	6	52.471	-52.539	-52.082	1.00	20.30	E	C
ATOM	16635	OE1	GLN	E	6	51.270	-52.373	-52.092	1.00	23.44	E	O
ATOM	16636	NE2	GLN	E	6	53.320	-51.558	-51.863	1.00	21.80	E	N
ATOM	16639	C	GLN	E	6	55.129	-56.302	-50.227	1.00	30.71	E	C

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ATOM	16640	O	GLN	E	6	54.768	-57.050	-49.299	1.00	24.90	E O
ATOM	16642	N	SER	E	7	56.345	-55.762	-50.327	1.00	29.21	E N
ATOM	16643	CA	SER	E	7	57.391	-56.046	-49.371	1.00	28.15	E C
ATOM	16645	CB	SER	E	7	58.763	-55.600	-49.892	1.00	26.60	E C
ATOM	16648	OG	SER	E	7	58.776	-54.229	-50.234	1.00	27.79	E O
ATOM	16650	C	SER	E	7	57.064	-55.383	-48.050	1.00	27.88	E C
ATOM	16651	O	SER	E	7	56.200	-54.518	-47.972	1.00	29.50	E O
ATOM	16653	N	GLY	E	8	57.759	-55.818	-47.007	1.00	30.06	E N
ATOM	16654	CA	GLY	E	8	57.426	-55.456	-45.642	1.00	26.95	E C
ATOM	16657	C	GLY	E	8	57.803	-54.039	-45.282	1.00	28.72	E C
ATOM	16658	O	GLY	E	8	58.440	-53.334	-46.074	1.00	30.52	E O
ATOM	16660	N	PRO	E	9	57.397	-53.602	-44.079	1.00	29.77	E N
ATOM	16661	CA	PRO	E	9	57.683	-52.241	-43.647	1.00	31.34	E C
ATOM	16663	CB	PRO	E	9	56.949	-52.118	-42.306	1.00	30.32	E C
ATOM	16666	CG	PRO	E	9	56.641	-53.492	-41.874	1.00	27.28	E C
ATOM	16669	CD	PRO	E	9	56.623	-54.362	-43.083	1.00	30.08	E C
ATOM	16672	C	PRO	E	9	59.176	-52.007	-43.483	1.00	32.24	E C
ATOM	16673	O	PRO	E	9	59.917	-52.941	-43.202	1.00	34.90	E O
ATOM	16674	N	GLU	E	10	59.593	-50.761	-43.683	1.00	33.21	E N
ATOM	16675	CA	GLU	E	10	60.999	-50.379	-43.694	1.00	32.14	E C
ATOM	16677	CB	GLU	E	10	61.408	-49.916	-45.101	1.00	33.21	E C
ATOM	16680	CG	GLU	E	10	61.240	-50.975	-46.214	1.00	35.14	E C
ATOM	16683	CD	GLU	E	10	62.501	-51.777	-46.501	1.00	34.56	E C
ATOM	16684	OE1	GLU	E	10	63.442	-51.751	-45.690	1.00	32.42	E O
ATOM	16685	OE2	GLU	E	10	62.555	-52.434	-47.561	1.00	38.18	E O
ATOM	16686	C	GLU	E	10	61.214	-49.242	-42.716	1.00	31.38	E C
ATOM	16687	O	GLU	E	10	60.318	-48.446	-42.475	1.00	35.40	E O
ATOM	16689	N	LEU	E	11	62.400	-49.195	-42.124	1.00	31.96	E N
ATOM	16690	CA	LEU	E	11	62.843	-48.035	-41.372	1.00	31.09	E C
ATOM	16692	CB	LEU	E	11	62.948	-48.352	-39.871	1.00	29.38	E C
ATOM	16695	CG	LEU	E	11	63.606	-47.303	-38.960	1.00	29.82	E C
ATOM	16697	CD1	LEU	E	11	62.813	-45.987	-38.918	1.00	26.14	E C
ATOM	16701	CD2	LEU	E	11	63.792	-47.878	-37.570	1.00	30.98	E C
ATOM	16705	C	LEU	E	11	64.196	-47.655	-41.970	1.00	30.59	E C
ATOM	16706	O	LEU	E	11	65.097	-48.491	-42.071	1.00	30.89	E O
ATOM	16708	N	LYS	E	12	64.322	-46.407	-42.393	1.00	26.41	E N
ATOM	16709	CA	LYS	E	12	65.533	-45.944	-43.042	1.00	29.62	E C
ATOM	16711	CB	LYS	E	12	65.310	-45.803	-44.552	1.00	29.74	E C
ATOM	16714	CG	LYS	E	12	65.085	-47.121	-45.280	1.00	28.86	E C
ATOM	16717	CD	LYS	E	12	66.384	-47.945	-45.438	1.00	31.34	E C
ATOM	16720	CE	LYS	E	12	66.074	-49.311	-46.021	1.00	32.85	E C
ATOM	16723	NZ	LYS	E	12	67.276	-50.055	-46.456	1.00	33.76	E N
ATOM	16727	C	LYS	E	12	65.913	-44.611	-42.441	1.00	32.39	E C
ATOM	16728	O	LYS	E	12	65.053	-43.881	-41.958	1.00	35.52	E O
ATOM	16730	N	LYS	E	13	67.202	-44.300	-42.461	1.00	35.01	E N
ATOM	16731	CA	LYS	E	13	67.692	-43.053	-41.901	1.00	35.82	E C
ATOM	16733	CB	LYS	E	13	69.144	-43.208	-41.441	1.00	40.75	E C
ATOM	16736	CG	LYS	E	13	69.351	-44.308	-40.396	1.00	43.06	E C
ATOM	16739	CD	LYS	E	13	70.832	-44.533	-40.092	1.00	42.05	E C
ATOM	16742	CE	LYS	E	13	71.041	-45.559	-38.980	1.00	44.10	E C
ATOM	16745	NZ	LYS	E	13	70.406	-45.124	-37.702	1.00	46.88	E N
ATOM	16749	C	LYS	E	13	67.584	-41.982	-42.961	1.00	33.75	E C
ATOM	16750	O	LYS	E	13	67.642	-42.293	-44.152	1.00	34.61	E O
ATOM	16752	N	PRO	E	14	67.409	-40.716	-42.544	1.00	33.41	E N
ATOM	16753	CA	PRO	E	14	67.418	-39.622	-43.516	1.00	33.70	E C
ATOM	16755	CB	PRO	E	14	67.437	-38.369	-42.635	1.00	33.84	E C
ATOM	16758	CG	PRO	E	14	66.805	-38.791	-41.355	1.00	32.05	E C
ATOM	16761	CD	PRO	E	14	67.160	-40.239	-41.171	1.00	32.78	E C
ATOM	16764	C	PRO	E	14	68.655	-39.680	-44.416	1.00	31.92	E C
ATOM	16765	O	PRO	E	14	69.729	-40.006	-43.939	1.00	32.74	E O
ATOM	16766	N	GLY	E	15	68.497	-39.400	-45.705	1.00	30.81	E N
ATOM	16767	CA	GLY	E	15	69.617	-39.467	-46.649	1.00	30.33	E C
ATOM	16770	C	GLY	E	15	69.744	-40.783	-47.397	1.00	27.88	E C
ATOM	16771	O	GLY	E	15	70.218	-40.809	-48.531	1.00	30.77	E O
ATOM	16773	N	ALA	E	16	69.304	-41.871	-46.771	1.00	27.56	E N
ATOM	16774	CA	ALA	E	16	69.387	-43.202	-47.360	1.00	27.98	E C
ATOM	16776	CB	ALA	E	16	69.060	-44.249	-46.305	1.00	29.11	E C
ATOM	16780	C	ALA	E	16	68.476	-43.383	-48.575	1.00	28.26	E C

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ATOM	16781	O	ALA	E	16	67.811	-42.452	-49.012	1.00	28.42	E O
ATOM	16783	N	SER	E	17	68.481	-44.594	-49.125	1.00	30.36	E N
ATOM	16784	CA	SER	E	17	67.579	-44.994	-50.205	1.00	27.43	E C
ATOM	16786	CB	SER	E	17	68.360	-45.233	-51.498	1.00	28.83	E C
ATOM	16789	OG	SER	E	17	68.799	-44.003	-52.047	1.00	30.20	E O
ATOM	16791	C	SER	E	17	66.838	-46.268	-49.806	1.00	25.64	E C
ATOM	16792	O	SER	E	17	67.313	-47.031	-48.984	1.00	23.68	E O
ATOM	16794	N	VAL	E	18	65.665	-46.478	-50.391	1.00	25.18	E N
ATOM	16795	CA	VAL	E	18	64.846	-47.661	-50.124	1.00	23.49	E C
ATOM	16797	CB	VAL	E	18	63.730	-47.357	-49.077	1.00	21.83	E C
ATOM	16799	CG1	VAL	E	18	62.725	-46.369	-49.643	1.00	16.12	E C
ATOM	16803	CG2	VAL	E	18	63.057	-48.640	-48.601	1.00	20.09	E C
ATOM	16807	C	VAL	E	18	64.214	-48.110	-51.435	1.00	22.97	E C
ATOM	16808	O	VAL	E	18	63.906	-47.289	-52.301	1.00	22.32	E O
ATOM	16810	N	LYS	E	19	64.038	-49.415	-51.578	1.00	24.24	E N
ATOM	16811	CA	LYS	E	19	63.450	-49.988	-52.775	1.00	25.40	E C
ATOM	16813	CB	LYS	E	19	64.520	-50.659	-53.603	1.00	29.70	E C
ATOM	16816	CG	LYS	E	19	64.102	-51.121	-54.969	1.00	27.47	E C
ATOM	16819	CD	LYS	E	19	65.254	-51.967	-55.514	1.00	26.94	E C
ATOM	16822	CE	LYS	E	19	64.950	-52.543	-56.859	1.00	27.65	E C
ATOM	16825	NZ	LYS	E	19	65.914	-53.646	-57.171	1.00	22.24	E N
ATOM	16829	C	LYS	E	19	62.399	-50.990	-52.353	1.00	24.50	E C
ATOM	16830	O	LYS	E	19	62.720	-52.019	-51.767	1.00	25.94	E O
ATOM	16832	N	VAL	E	20	61.145	-50.660	-52.661	1.00	23.41	E N
ATOM	16833	CA	VAL	E	20	59.961	-51.418	-52.261	1.00	24.90	E C
ATOM	16835	CB	VAL	E	20	58.852	-50.428	-51.790	1.00	28.28	E C
ATOM	16837	CG1	VAL	E	20	57.481	-51.103	-51.680	1.00	31.52	E C
ATOM	16841	CG2	VAL	E	20	59.269	-49.800	-50.456	1.00	32.24	E C
ATOM	16845	C	VAL	E	20	59.486	-52.236	-53.456	1.00	23.66	E C
ATOM	16846	O	VAL	E	20	59.491	-51.739	-54.576	1.00	24.78	E O
ATOM	16848	N	SER	E	21	59.101	-53.492	-53.223	1.00	25.05	E N
ATOM	16849	CA	SER	E	21	58.644	-54.372	-54.290	1.00	25.66	E C
ATOM	16851	CB	SER	E	21	59.462	-55.671	-54.307	1.00	32.53	E C
ATOM	16854	OG	SER	E	21	59.257	-56.459	-53.154	1.00	35.58	E O
ATOM	16856	C	SER	E	21	57.124	-54.655	-54.260	1.00	26.81	E C
ATOM	16857	O	SER	E	21	56.462	-54.510	-53.227	1.00	18.48	E O
ATOM	16859	N	CYS	E	22	56.606	-55.034	-55.431	1.00	27.56	E N
ATOM	16860	CA	CYS	E	22	55.209	-55.408	-55.657	1.00	27.74	E C
ATOM	16862	CB	CYS	E	22	54.442	-54.237	-56.304	1.00	30.59	E C
ATOM	16865	SG	CYS	E	22	52.649	-54.540	-56.585	1.00	30.39	E S
ATOM	16867	C	CYS	E	22	55.165	-56.638	-56.575	1.00	29.21	E C
ATOM	16868	O	CYS	E	22	55.279	-56.521	-57.800	1.00	27.90	E O
ATOM	16870	N	LYS	E	23	55.013	-57.814	-55.977	1.00	27.07	E N
ATOM	16871	CA	LYS	E	23	54.981	-59.080	-56.721	1.00	28.97	E C
ATOM	16873	CB	LYS	E	23	55.634	-60.196	-55.872	1.00	31.05	E C
ATOM	16876	CG	LYS	E	23	55.382	-61.660	-56.282	1.00	34.03	E C
ATOM	16879	CD	LYS	E	23	56.198	-62.100	-57.489	1.00	37.11	E C
ATOM	16882	CE	LYS	E	23	56.492	-63.610	-57.475	1.00	38.58	E C
ATOM	16885	NZ	LYS	E	23	57.847	-63.904	-56.934	1.00	41.40	E N
ATOM	16889	C	LYS	E	23	53.542	-59.412	-57.175	1.00	30.45	E C
ATOM	16890	O	LYS	E	23	52.633	-59.573	-56.355	1.00	34.33	E O
ATOM	16892	N	ALA	E	24	53.359	-59.470	-58.496	1.00	27.62	E N
ATOM	16893	CA	ALA	E	24	52.092	-59.808	-59.141	1.00	25.35	E C
ATOM	16895	CB	ALA	E	24	51.952	-59.030	-60.454	1.00	20.29	E C
ATOM	16899	C	ALA	E	24	52.011	-61.311	-59.420	1.00	22.63	E C
ATOM	16900	O	ALA	E	24	53.023	-61.963	-59.662	1.00	24.06	E O
ATOM	16902	N	SER	E	25	50.804	-61.852	-59.368	1.00	23.69	E N
ATOM	16903	CA	SER	E	25	50.538	-63.231	-59.752	1.00	27.84	E C
ATOM	16905	CB	SER	E	25	50.999	-64.241	-58.677	1.00	27.33	E C
ATOM	16908	OG	SER	E	25	50.230	-64.142	-57.491	1.00	30.87	E O
ATOM	16910	C	SER	E	25	49.049	-63.385	-60.032	1.00	31.19	E C
ATOM	16911	O	SER	E	25	48.227	-62.533	-59.633	1.00	26.98	E O
ATOM	16913	N	GLY	E	26	48.719	-64.468	-60.730	1.00	28.91	E N
ATOM	16914	CA	GLY	E	26	47.350	-64.736	-61.146	1.00	28.96	E C
ATOM	16917	C	GLY	E	26	46.894	-63.971	-62.376	1.00	31.23	E C
ATOM	16918	O	GLY	E	26	45.688	-63.893	-62.643	1.00	30.95	E O
ATOM	16920	N	TYR	E	27	47.839	-63.384	-63.111	1.00	29.16	E N
ATOM	16921	CA	TYR	E	27	47.529	-62.719	-64.376	1.00	28.01	E C

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ATOM	16923	CB	TYR	E	27	46.774	-61.393	-64.142	1.00	28.84	E C
ATOM	16926	CG	TYR	E	27	47.628	-60.260	-63.598	1.00	29.20	E C
ATOM	16927	CD1	TYR	E	27	48.219	-59.339	-64.463	1.00	30.72	E C
ATOM	16929	CE1	TYR	E	27	48.998	-58.290	-63.985	1.00	28.44	E C
ATOM	16931	CZ	TYR	E	27	49.193	-58.151	-62.635	1.00	26.00	E C
ATOM	16932	OH	TYR	E	27	49.977	-57.122	-62.177	1.00	27.67	E O
ATOM	16934	CE2	TYR	E	27	48.605	-59.044	-61.740	1.00	29.54	E C
ATOM	16936	CD2	TYR	E	27	47.826	-60.090	-62.226	1.00	27.82	E C
ATOM	16938	C	TYR	E	27	48.812	-62.481	-65.175	1.00	27.01	E C
ATOM	16939	O	TYR	E	27	49.908	-62.523	-64.614	1.00	25.37	E O
ATOM	16941	N	THR	E	28	48.673	-62.224	-66.475	1.00	25.48	E N
ATOM	16942	CA	THR	E	28	49.827	-61.926	-67.330	1.00	25.80	E C
ATOM	16944	CB	THR	E	28	49.484	-62.069	-68.826	1.00	27.75	E C
ATOM	16946	OG1	THR	E	28	48.834	-63.323	-69.047	1.00	32.12	E O
ATOM	16948	CG2	THR	E	28	50.755	-62.006	-69.699	1.00	23.45	E C
ATOM	16952	C	THR	E	28	50.339	-60.512	-67.019	1.00	22.81	E C
ATOM	16953	O	THR	E	28	49.627	-59.524	-67.176	1.00	21.44	E O
ATOM	16955	N	PHE	E	29	51.587	-60.442	-66.580	1.00	23.28	E N
ATOM	16956	CA	PHE	E	29	52.161	-59.244	-65.980	1.00	26.12	E C
ATOM	16958	CB	PHE	E	29	53.540	-59.585	-65.402	1.00	23.11	E C
ATOM	16961	CG	PHE	E	29	54.187	-58.462	-64.643	1.00	22.05	E C
ATOM	16962	CD1	PHE	E	29	53.619	-57.989	-63.457	1.00	18.67	E C
ATOM	16964	CE1	PHE	E	29	54.230	-56.959	-62.745	1.00	20.45	E C
ATOM	16966	CZ	PHE	E	29	55.431	-56.412	-63.199	1.00	21.30	E C
ATOM	16968	CE2	PHE	E	29	56.018	-56.882	-64.363	1.00	20.28	E C
ATOM	16970	CD2	PHE	E	29	55.397	-57.913	-65.083	1.00	24.32	E C
ATOM	16972	C	PHE	E	29	52.241	-58.078	-66.968	1.00	25.34	E C
ATOM	16973	O	PHE	E	29	51.826	-56.974	-66.653	1.00	26.22	E O
ATOM	16975	N	THR	E	30	52.729	-58.341	-68.174	1.00	22.25	E N
ATOM	16976	CA	THR	E	30	52.874	-57.297	-69.179	1.00	21.54	E C
ATOM	16978	CB	THR	E	30	53.894	-57.706	-70.242	1.00	19.16	E C
ATOM	16980	OG1	THR	E	30	53.457	-58.903	-70.896	1.00	27.04	E O
ATOM	16982	CG2	THR	E	30	55.243	-57.933	-69.600	1.00	14.18	E C
ATOM	16986	C	THR	E	30	51.560	-56.859	-69.851	1.00	25.42	E C
ATOM	16987	O	THR	E	30	51.580	-55.995	-70.722	1.00	28.86	E O
ATOM	16989	N	ASN	E	31	50.433	-57.440	-69.436	1.00	26.85	E N
ATOM	16990	CA	ASN	E	31	49.097	-57.071	-69.946	1.00	25.25	E C
ATOM	16992	CB	ASN	E	31	48.063	-58.189	-69.691	1.00	24.62	E C
ATOM	16995	CG	ASN	E	31	48.048	-59.262	-70.770	1.00	19.10	E C
ATOM	16996	OD1	ASN	E	31	49.030	-59.483	-71.498	1.00	25.22	E O
ATOM	16997	ND2	ASN	E	31	46.931	-59.971	-70.847	1.00	21.48	E N
ATOM	17000	C	ASN	E	31	48.551	-55.808	-69.322	1.00	23.41	E C
ATOM	17001	O	ASN	E	31	47.741	-55.120	-69.934	1.00	26.09	E O
ATOM	17003	N	TYR	E	32	48.981	-55.533	-68.094	1.00	22.97	E N
ATOM	17004	CA	TYR	E	32	48.507	-54.415	-67.300	1.00	22.74	E C
ATOM	17006	CB	TYR	E	32	47.616	-54.895	-66.149	1.00	21.77	E C
ATOM	17009	CG	TYR	E	32	46.390	-55.733	-66.497	1.00	21.56	E C
ATOM	17010	CD1	TYR	E	32	45.114	-55.170	-66.465	1.00	22.22	E C
ATOM	17012	CE1	TYR	E	32	43.999	-55.913	-66.755	1.00	20.44	E C
ATOM	17014	CZ	TYR	E	32	44.115	-57.256	-67.050	1.00	22.11	E C
ATOM	17015	OH	TYR	E	32	42.959	-57.962	-67.318	1.00	27.65	E O
ATOM	17017	CE2	TYR	E	32	45.361	-57.859	-67.083	1.00	18.79	E C
ATOM	17019	CD2	TYR	E	32	46.495	-57.096	-66.799	1.00	20.23	E C
ATOM	17021	C	TYR	E	32	49.698	-53.680	-66.685	1.00	22.46	E C
ATOM	17022	O	TYR	E	32	50.644	-54.306	-66.212	1.00	25.60	E O
ATOM	17024	N	GLY	E	33	49.637	-52.354	-66.669	1.00	22.53	E N
ATOM	17025	CA	GLY	E	33	50.670	-51.553	-66.038	1.00	24.09	E C
ATOM	17028	C	GLY	E	33	50.424	-51.446	-64.552	1.00	21.45	E C
ATOM	17029	O	GLY	E	33	49.420	-51.946	-64.047	1.00	21.24	E O
ATOM	17031	N	MET	E	34	51.350	-50.809	-63.841	1.00	22.33	E N
ATOM	17032	CA	MET	E	34	51.218	-50.642	-62.390	1.00	24.25	E C
ATOM	17034	CB	MET	E	34	52.331	-51.385	-61.674	1.00	21.45	E C
ATOM	17037	CG	MET	E	34	52.103	-51.671	-60.200	1.00	23.10	E C
ATOM	17040	SD	MET	E	34	50.995	-53.059	-59.916	1.00	28.20	E S
ATOM	17041	CE	MET	E	34	51.880	-54.403	-60.693	1.00	22.31	E C
ATOM	17045	C	MET	E	34	51.286	-49.167	-62.030	1.00	23.22	E C
ATOM	17046	O	MET	E	34	52.174	-48.448	-62.501	1.00	23.65	E O
ATOM	17048	N	ASN	E	35	50.350	-48.735	-61.192	1.00	19.83	E N

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ATOM	17049	CA	ASN	E	35	50.388	-47.411	-60.593	1.00	21.90	E	C
ATOM	17051	CB	ASN	E	35	48.994	-46.811	-60.390	1.00	23.06	E	C
ATOM	17054	CG	ASN	E	35	48.145	-46.795	-61.634	1.00	26.53	E	C
ATOM	17055	OD1	ASN	E	35	48.634	-46.656	-62.761	1.00	23.14	E	O
ATOM	17056	ND2	ASN	E	35	46.833	-46.890	-61.422	1.00	22.83	E	N
ATOM	17059	C	ASN	E	35	50.987	-47.512	-59.200	1.00	23.59	E	C
ATOM	17060	O	ASN	E	35	50.859	-48.526	-58.516	1.00	23.35	E	O
ATOM	17062	N	TRP	E	36	51.588	-46.418	-58.767	1.00	23.35	E	N
ATOM	17063	CA	TRP	E	36	52.098	-46.296	-57.431	1.00	21.65	E	C
ATOM	17065	CB	TRP	E	36	53.602	-46.036	-57.507	1.00	21.09	E	C
ATOM	17068	CG	TRP	E	36	54.338	-47.296	-57.797	1.00	23.40	E	C
ATOM	17069	CD1	TRP	E	36	54.787	-47.734	-59.013	1.00	21.20	E	C
ATOM	17071	NE1	TRP	E	36	55.402	-48.944	-58.866	1.00	21.95	E	N
ATOM	17073	CE2	TRP	E	36	55.351	-49.317	-57.548	1.00	20.18	E	C
ATOM	17074	CD2	TRP	E	36	54.682	-48.308	-56.851	1.00	20.25	E	C
ATOM	17075	CE3	TRP	E	36	54.492	-48.451	-55.473	1.00	22.82	E	C
ATOM	17077	CZ3	TRP	E	36	54.985	-49.587	-54.851	1.00	21.22	E	C
ATOM	17079	CH2	TRP	E	36	55.631	-50.573	-55.573	1.00	21.59	E	C
ATOM	17081	CZ2	TRP	E	36	55.830	-50.462	-56.920	1.00	23.19	E	C
ATOM	17083	C	TRP	E	36	51.383	-45.155	-56.770	1.00	13.93	E	C
ATOM	17084	O	TRP	E	36	51.215	-44.129	-57.372	1.00	13.75	E	O
ATOM	17086	N	VAL	E	37	50.993	-45.331	-55.517	1.00	24.14	E	N
ATOM	17087	CA	VAL	E	37	50.160	-44.379	-54.813	1.00	19.31	E	C
ATOM	17089	CB	VAL	E	37	48.688	-44.905	-54.736	1.00	21.14	E	C
ATOM	17091	CG1	VAL	E	37	47.787	-43.976	-53.930	1.00	15.34	E	C
ATOM	17095	CG2	VAL	E	37	48.110	-45.143	-56.136	1.00	19.69	E	C
ATOM	17099	C	VAL	E	37	50.714	-44.223	-53.399	1.00	23.73	E	C
ATOM	17100	O	VAL	E	37	51.084	-45.213	-52.787	1.00	24.89	E	O
ATOM	17102	N	ARG	E	38	50.798	-42.996	-52.874	1.00	23.48	E	N
ATOM	17103	CA	ARG	E	38	51.124	-42.854	-51.455	1.00	25.97	E	C
ATOM	17105	CB	ARG	E	38	52.496	-42.213	-51.211	1.00	30.87	E	C
ATOM	17108	CG	ARG	E	38	52.584	-40.738	-51.334	1.00	30.30	E	C
ATOM	17111	CD	ARG	E	38	53.907	-40.251	-50.710	1.00	31.62	E	C
ATOM	17114	NE	ARG	E	38	53.693	-39.077	-49.871	1.00	35.50	E	N
ATOM	17116	CZ	ARG	E	38	54.664	-38.386	-49.289	1.00	41.20	E	C
ATOM	17117	NH1	ARG	E	38	55.942	-38.739	-49.443	1.00	45.93	E	N
ATOM	17120	NH2	ARG	E	38	54.352	-37.336	-48.542	1.00	42.14	E	N
ATOM	17123	C	ARG	E	38	50.043	-42.214	-50.601	1.00	20.05	E	C
ATOM	17124	O	ARG	E	38	49.165	-41.511	-51.088	1.00	18.25	E	O
ATOM	17126	N	GLN	E	39	50.097	-42.553	-49.325	1.00	22.48	E	N
ATOM	17127	CA	GLN	E	39	49.288	-41.936	-48.318	1.00	25.55	E	C
ATOM	17129	CB	GLN	E	39	48.101	-42.832	-47.993	1.00	27.38	E	C
ATOM	17132	CG	GLN	E	39	47.147	-42.288	-46.958	1.00	25.90	E	C
ATOM	17135	CD	GLN	E	39	45.818	-42.992	-47.008	1.00	23.35	E	C
ATOM	17136	OE1	GLN	E	39	44.769	-42.363	-47.161	1.00	19.77	E	O
ATOM	17137	NE2	GLN	E	39	45.855	-44.307	-46.943	1.00	23.35	E	N
ATOM	17140	C	GLN	E	39	50.171	-41.725	-47.111	1.00	26.42	E	C
ATOM	17141	O	GLN	E	39	50.491	-42.671	-46.392	1.00	27.02	E	O
ATOM	17143	N	ALA	E	40	50.588	-40.473	-46.926	1.00	28.23	E	N
ATOM	17144	CA	ALA	E	40	51.276	-40.040	-45.721	1.00	27.90	E	C
ATOM	17146	CB	ALA	E	40	51.707	-38.576	-45.842	1.00	26.11	E	C
ATOM	17150	C	ALA	E	40	50.324	-40.220	-44.546	1.00	30.93	E	C
ATOM	17151	O	ALA	E	40	49.105	-40.170	-44.723	1.00	29.79	E	O
ATOM	17153	N	PRO	E	41	50.861	-40.425	-43.334	1.00	33.06	E	N
ATOM	17154	CA	PRO	E	41	49.964	-40.724	-42.208	1.00	34.14	E	C
ATOM	17156	CB	PRO	E	41	50.923	-40.834	-41.019	1.00	35.11	E	C
ATOM	17159	CG	PRO	E	41	52.213	-41.228	-41.637	1.00	35.80	E	C
ATOM	17162	CD	PRO	E	41	52.267	-40.432	-42.911	1.00	33.95	E	C
ATOM	17165	C	PRO	E	41	48.897	-39.670	-41.945	1.00	33.57	E	C
ATOM	17166	O	PRO	E	41	49.199	-38.477	-41.861	1.00	38.62	E	O
ATOM	17167	N	GLY	E	42	47.651	-40.122	-41.834	1.00	32.79	E	N
ATOM	17168	CA	GLY	E	42	46.521	-39.237	-41.625	1.00	32.77	E	C
ATOM	17171	C	GLY	E	42	46.112	-38.361	-42.808	1.00	33.41	E	C
ATOM	17172	O	GLY	E	42	45.282	-37.469	-42.651	1.00	31.00	E	O
ATOM	17174	N	GLN	E	43	46.662	-38.620	-43.992	1.00	36.03	E	N
ATOM	17175	CA	GLN	E	43	46.466	-37.728	-45.142	1.00	30.29	E	C
ATOM	17177	CB	GLN	E	43	47.809	-37.172	-45.624	1.00	30.92	E	C
ATOM	17180	CG	GLN	E	43	48.561	-36.362	-44.593	1.00	37.04	E	C

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ATOM	17183	CD	GLN	E	43	47.795	-35.120	-44.160	1.00	43.95	E	C
ATOM	17184	OE1	GLN	E	43	47.280	-34.363	-44.995	1.00	47.10	E	O
ATOM	17185	NE2	GLN	E	43	47.712	-34.905	-42.850	1.00	47.30	E	N
ATOM	17188	C	GLN	E	43	45.760	-38.465	-46.258	1.00	27.09	E	C
ATOM	17189	O	GLN	E	43	45.394	-39.634	-46.114	1.00	28.47	E	O
ATOM	17191	N	GLY	E	44	45.559	-37.779	-47.376	1.00	24.18	E	N
ATOM	17192	CA	GLY	E	44	44.814	-38.334	-48.475	1.00	23.65	E	C
ATOM	17195	C	GLY	E	44	45.683	-39.156	-49.388	1.00	18.02	E	C
ATOM	17196	O	GLY	E	44	46.886	-39.215	-49.216	1.00	25.49	E	O
ATOM	17198	N	LEU	E	45	45.062	-39.796	-50.366	1.00	25.41	E	N
ATOM	17199	CA	LEU	E	45	45.793	-40.592	-51.359	1.00	21.76	E	C
ATOM	17201	CB	LEU	E	45	44.837	-41.524	-52.089	1.00	23.56	E	C
ATOM	17204	CG	LEU	E	45	44.041	-42.528	-51.286	1.00	21.92	E	C
ATOM	17206	CD1	LEU	E	45	43.184	-43.335	-52.254	1.00	20.25	E	C
ATOM	17210	CD2	LEU	E	45	44.978	-43.437	-50.460	1.00	22.71	E	C
ATOM	17214	C	LEU	E	45	46.444	-39.677	-52.401	1.00	23.48	E	C
ATOM	17215	O	LEU	E	45	45.815	-38.703	-52.847	1.00	24.51	E	O
ATOM	17217	N	GLU	E	46	47.677	-40.004	-52.811	1.00	24.62	E	N
ATOM	17218	CA	GLU	E	46	48.343	-39.283	-53.888	1.00	21.46	E	C
ATOM	17220	CB	GLU	E	46	49.529	-38.471	-53.371	1.00	26.40	E	C
ATOM	17223	CG	GLU	E	46	49.315	-37.731	-52.087	1.00	27.56	E	C
ATOM	17226	CD	GLU	E	46	50.616	-37.256	-51.506	1.00	26.92	E	C
ATOM	17227	OE1	GLU	E	46	51.028	-37.779	-50.439	1.00	26.86	E	O
ATOM	17228	OE2	GLU	E	46	51.234	-36.382	-52.139	1.00	33.13	E	O
ATOM	17229	C	GLU	E	46	48.845	-40.237	-54.959	1.00	22.53	E	C
ATOM	17230	O	GLU	E	46	49.574	-41.196	-54.677	1.00	25.39	E	O
ATOM	17232	N	TRP	E	47	48.464	-39.948	-56.196	1.00	20.56	E	N
ATOM	17233	CA	TRP	E	47	48.877	-40.727	-57.332	1.00	22.88	E	C
ATOM	17235	CB	TRP	E	47	47.914	-40.492	-58.482	1.00	19.92	E	C
ATOM	17238	CG	TRP	E	47	47.919	-41.560	-59.509	1.00	22.88	E	C
ATOM	17239	CD1	TRP	E	47	47.227	-42.725	-59.473	1.00	23.12	E	C
ATOM	17241	NE1	TRP	E	47	47.464	-43.443	-60.603	1.00	21.42	E	N
ATOM	17243	CE2	TRP	E	47	48.344	-42.753	-61.395	1.00	20.09	E	C
ATOM	17244	CD2	TRP	E	47	48.656	-41.565	-60.732	1.00	19.46	E	C
ATOM	17245	CE3	TRP	E	47	49.540	-40.660	-61.338	1.00	24.78	E	C
ATOM	17247	CZ3	TRP	E	47	50.070	-40.984	-62.563	1.00	21.36	E	C
ATOM	17249	CH2	TRP	E	47	49.727	-42.180	-63.204	1.00	20.75	E	C
ATOM	17251	CZ2	TRP	E	47	48.875	-43.077	-62.639	1.00	17.71	E	C
ATOM	17253	C	TRP	E	47	50.296	-40.295	-57.714	1.00	25.90	E	C
ATOM	17254	O	TRP	E	47	50.532	-39.118	-58.021	1.00	23.94	E	O
ATOM	17256	N	MET	E	48	51.226	-41.253	-57.673	1.00	28.23	E	N
ATOM	17257	CA	MET	E	48	52.654	-40.988	-57.889	1.00	24.20	E	C
ATOM	17259	CB	MET	E	48	53.497	-41.927	-57.066	1.00	18.65	E	C
ATOM	17262	CG	MET	E	48	53.302	-41.774	-55.601	1.00	18.43	E	C
ATOM	17265	SD	MET	E	48	54.150	-43.057	-54.704	1.00	19.60	E	S
ATOM	17266	CE	MET	E	48	55.843	-42.529	-54.858	1.00	21.52	E	C
ATOM	17270	C	MET	E	48	53.067	-41.137	-59.321	1.00	22.49	E	C
ATOM	17271	O	MET	E	48	53.886	-40.366	-59.811	1.00	28.41	E	O
ATOM	17273	N	GLY	E	49	52.496	-42.125	-59.999	1.00	18.39	E	N
ATOM	17274	CA	GLY	E	49	52.833	-42.369	-61.379	1.00	16.32	E	C
ATOM	17277	C	GLY	E	49	52.551	-43.769	-61.873	1.00	16.96	E	C
ATOM	17278	O	GLY	E	49	52.011	-44.596	-61.169	1.00	16.68	E	O
ATOM	17280	N	TRP	E	50	52.940	-44.023	-63.109	1.00	20.14	E	N
ATOM	17281	CA	TRP	E	50	52.658	-45.275	-63.770	1.00	16.94	E	C
ATOM	17283	CB	TRP	E	50	51.606	-45.005	-64.838	1.00	22.28	E	C
ATOM	17286	CG	TRP	E	50	51.749	-45.628	-66.186	1.00	19.14	E	C
ATOM	17287	CD1	TRP	E	50	52.587	-45.230	-67.204	1.00	23.36	E	C
ATOM	17289	NE1	TRP	E	50	52.409	-46.029	-68.314	1.00	21.05	E	N
ATOM	17291	CE2	TRP	E	50	51.422	-46.941	-68.030	1.00	25.78	E	C
ATOM	17292	CD2	TRP	E	50	50.997	-46.716	-66.689	1.00	18.07	E	C
ATOM	17293	CE3	TRP	E	50	50.012	-47.538	-66.147	1.00	21.64	E	C
ATOM	17295	CZ3	TRP	E	50	49.477	-48.522	-66.927	1.00	22.09	E	C
ATOM	17297	CH2	TRP	E	50	49.919	-48.734	-68.254	1.00	21.99	E	C
ATOM	17299	CZ2	TRP	E	50	50.896	-47.966	-68.814	1.00	20.34	E	C
ATOM	17301	C	TRP	E	50	53.942	-45.808	-64.349	1.00	24.10	E	C
ATOM	17302	O	TRP	E	50	54.761	-45.036	-64.838	1.00	26.64	E	O
ATOM	17304	N	ILE	E	51	54.130	-47.124	-64.257	1.00	20.65	E	N
ATOM	17305	CA	ILE	E	51	55.096	-47.804	-65.084	1.00	22.17	E	C

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ATOM	17307	CB	ILE	E	51	56.169	-48.589	-64.275	1.00	20.11	E	C
ATOM	17309	CG1	ILE	E	51	57.199	-49.209	-65.239	1.00	22.02	E	C
ATOM	17312	CD1	ILE	E	51	58.602	-49.424	-64.664	1.00	18.26	E	C
ATOM	17316	CG2	ILE	E	51	55.512	-49.601	-63.313	1.00	13.25	E	C
ATOM	17320	C	ILE	E	51	54.344	-48.731	-66.041	1.00	25.20	E	C
ATOM	17321	O	ILE	E	51	53.393	-49.443	-65.646	1.00	22.52	E	O
ATOM	17323	N	ASN	E	52	54.756	-48.672	-67.308	1.00	16.52	E	N
ATOM	17324	CA	ASN	E	52	54.278	-49.583	-68.328	1.00	16.49	E	C
ATOM	17326	CB	ASN	E	52	54.443	-48.924	-69.703	1.00	14.19	E	C
ATOM	17329	CG	ASN	E	52	53.823	-49.740	-70.834	1.00	18.18	E	C
ATOM	17330	OD1	ASN	E	52	53.946	-50.973	-70.887	1.00	21.43	E	O
ATOM	17331	ND2	ASN	E	52	53.171	-49.052	-71.752	1.00	20.18	E	N
ATOM	17334	C	ASN	E	52	55.094	-50.872	-68.196	1.00	18.87	E	C
ATOM	17335	O	ASN	E	52	56.325	-50.875	-68.407	1.00	19.61	E	O
ATOM	17337	N	THR	E	53	54.424	-51.951	-67.786	1.00	16.17	E	N
ATOM	17338	CA	THR	E	53	55.067	-53.239	-67.545	1.00	20.06	E	C
ATOM	17340	CB	THR	E	53	54.142	-54.175	-66.736	1.00	16.62	E	C
ATOM	17342	OG1	THR	E	53	52.935	-54.333	-67.465	1.00	18.91	E	O
ATOM	17344	CG2	THR	E	53	53.810	-53.612	-65.298	1.00	10.24	E	C
ATOM	17348	C	THR	E	53	55.463	-53.975	-68.854	1.00	20.76	E	C
ATOM	17349	O	THR	E	53	56.186	-54.977	-68.799	1.00	24.69	E	O
ATOM	17351	N	TYR	E	54	54.982	-53.487	-70.002	1.00	17.95	E	N
ATOM	17352	CA	TYR	E	54	55.283	-54.067	-71.311	1.00	19.27	E	C
ATOM	17354	CB	TYR	E	54	54.082	-53.979	-72.287	1.00	17.85	E	C
ATOM	17357	CG	TYR	E	54	54.267	-54.864	-73.507	1.00	17.18	E	C
ATOM	17358	CD1	TYR	E	54	53.686	-56.123	-73.575	1.00	19.27	E	C
ATOM	17360	CE1	TYR	E	54	53.868	-56.940	-74.684	1.00	21.16	E	C
ATOM	17362	CZ	TYR	E	54	54.667	-56.517	-75.738	1.00	20.33	E	C
ATOM	17363	OH	TYR	E	54	54.852	-57.331	-76.821	1.00	18.54	E	O
ATOM	17365	CE2	TYR	E	54	55.266	-55.278	-75.695	1.00	19.97	E	C
ATOM	17367	CD2	TYR	E	54	55.051	-54.452	-74.578	1.00	11.76	E	C
ATOM	17369	C	TYR	E	54	56.504	-53.404	-71.938	1.00	21.93	E	C
ATOM	17370	O	TYR	E	54	57.401	-54.091	-72.408	1.00	26.66	E	O
ATOM	17372	N	THR	E	55	56.527	-52.074	-71.966	1.00	25.48	E	N
ATOM	17373	CA	THR	E	55	57.607	-51.323	-72.632	1.00	23.25	E	C
ATOM	17375	CB	THR	E	55	57.024	-50.145	-73.403	1.00	23.75	E	C
ATOM	17377	OG1	THR	E	55	56.303	-49.294	-72.501	1.00	28.13	E	O
ATOM	17379	CG2	THR	E	55	56.071	-50.657	-74.500	1.00	18.72	E	C
ATOM	17383	C	THR	E	55	58.677	-50.798	-71.665	1.00	26.93	E	C
ATOM	17384	O	THR	E	55	59.835	-50.565	-72.061	1.00	24.82	E	O
ATOM	17386	N	GLY	E	56	58.297	-50.641	-70.398	1.00	19.62	E	N
ATOM	17387	CA	GLY	E	56	59.195	-50.128	-69.366	1.00	23.63	E	C
ATOM	17390	C	GLY	E	56	59.091	-48.621	-69.128	1.00	29.02	E	C
ATOM	17391	O	GLY	E	56	59.684	-48.108	-68.172	1.00	32.83	E	O
ATOM	17393	N	GLU	E	57	58.339	-47.910	-69.972	1.00	32.68	E	N
ATOM	17394	CA	GLU	E	57	58.235	-46.452	-69.855	1.00	32.74	E	C
ATOM	17396	CB	GLU	E	57	57.833	-45.761	-71.182	1.00	33.15	E	C
ATOM	17399	CG	GLU	E	57	56.506	-46.146	-71.813	1.00	41.40	E	C
ATOM	17402	CD	GLU	E	57	56.528	-46.181	-73.375	1.00	44.50	E	C
ATOM	17403	OE1	GLU	E	57	57.399	-45.541	-74.011	1.00	48.94	E	O
ATOM	17404	OE2	GLU	E	57	55.652	-46.862	-73.965	1.00	46.71	E	O
ATOM	17405	C	GLU	E	57	57.363	-46.013	-68.676	1.00	30.95	E	C
ATOM	17406	O	GLU	E	57	56.423	-46.712	-68.251	1.00	29.34	E	O
ATOM	17408	N	THR	E	58	57.697	-44.836	-68.159	1.00	28.93	E	N
ATOM	17409	CA	THR	E	58	57.161	-44.355	-66.897	1.00	27.41	E	C
ATOM	17411	CB	THR	E	58	58.257	-44.334	-65.809	1.00	24.06	E	C
ATOM	17413	OG1	THR	E	58	59.429	-43.650	-66.290	1.00	27.56	E	O
ATOM	17415	CG2	THR	E	58	58.640	-45.716	-65.421	1.00	12.88	E	C
ATOM	17419	C	THR	E	58	56.607	-42.958	-67.032	1.00	30.29	E	C
ATOM	17420	O	THR	E	58	57.128	-42.162	-67.811	1.00	30.14	E	O
ATOM	17422	N	THR	E	59	55.531	-42.681	-66.284	1.00	30.56	E	N
ATOM	17423	CA	THR	E	59	54.985	-41.337	-66.117	1.00	28.91	E	C
ATOM	17425	CB	THR	E	59	53.571	-41.198	-66.729	1.00	28.95	E	C
ATOM	17427	OG1	THR	E	59	53.604	-41.562	-68.107	1.00	30.42	E	O
ATOM	17429	CG2	THR	E	59	53.054	-39.786	-66.616	1.00	29.89	E	C
ATOM	17433	C	THR	E	59	54.897	-41.058	-64.619	1.00	31.92	E	C
ATOM	17434	O	THR	E	59	54.336	-41.853	-63.862	1.00	30.64	E	O
ATOM	17436	N	TYR	E	60	55.453	-39.927	-64.204	1.00	29.29	E	N

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ATOM	17437	CA	TYR	E	60	55.396	-39.488	-62.823	1.00	25.84	E	C
ATOM	17439	CB	TYR	E	60	56.794	-39.131	-62.353	1.00	25.55	E	C
ATOM	17442	CG	TYR	E	60	57.758	-40.281	-62.458	1.00	21.89	E	C
ATOM	17443	CD1	TYR	E	60	57.861	-41.201	-61.435	1.00	24.18	E	C
ATOM	17445	CE1	TYR	E	60	58.732	-42.241	-61.501	1.00	24.72	E	C
ATOM	17447	CZ	TYR	E	60	59.503	-42.413	-62.630	1.00	23.01	E	C
ATOM	17448	OH	TYR	E	60	60.369	-43.476	-62.664	1.00	23.68	E	O
ATOM	17450	CE2	TYR	E	60	59.426	-41.517	-63.672	1.00	21.19	E	C
ATOM	17452	CD2	TYR	E	60	58.560	-40.448	-63.576	1.00	23.95	E	C
ATOM	17454	C	TYR	E	60	54.510	-38.265	-62.694	1.00	26.44	E	C
ATOM	17455	O	TYR	E	60	54.466	-37.423	-63.596	1.00	26.63	E	O
ATOM	17457	N	ALA	E	61	53.790	-38.182	-61.577	1.00	25.75	E	N
ATOM	17458	CA	ALA	E	61	53.054	-36.984	-61.233	1.00	26.98	E	C
ATOM	17460	CB	ALA	E	61	52.126	-37.236	-60.038	1.00	24.01	E	C
ATOM	17464	C	ALA	E	61	54.099	-35.929	-60.906	1.00	24.46	E	C
ATOM	17465	O	ALA	E	61	55.210	-36.269	-60.548	1.00	20.53	E	O
ATOM	17467	N	ASP	E	62	53.758	-34.653	-61.055	1.00	28.06	E	N
ATOM	17468	CA	ASP	E	62	54.733	-33.570	-60.829	1.00	27.68	E	C
ATOM	17470	CB	ASP	E	62	54.089	-32.186	-61.112	1.00	33.85	E	C
ATOM	17473	CG	ASP	E	62	53.989	-31.878	-62.623	1.00	39.86	E	C
ATOM	17474	OD1	ASP	E	62	54.999	-32.047	-63.348	1.00	49.52	E	O
ATOM	17475	OD2	ASP	E	62	52.913	-31.469	-63.101	1.00	41.29	E	O
ATOM	17476	C	ASP	E	62	55.416	-33.609	-59.452	1.00	27.74	E	C
ATOM	17477	O	ASP	E	62	56.626	-33.346	-59.337	1.00	25.00	E	O
ATOM	17479	N	ASP	E	63	54.669	-33.961	-58.410	1.00	24.36	E	N
ATOM	17480	CA	ASP	E	63	55.237	-34.014	-57.049	1.00	25.69	E	C
ATOM	17482	CB	ASP	E	63	54.116	-34.126	-56.012	1.00	35.83	E	C
ATOM	17485	CG	ASP	E	63	53.297	-32.839	-55.869	1.00	37.82	E	C
ATOM	17486	OD1	ASP	E	63	53.769	-31.733	-56.253	1.00	33.55	E	O
ATOM	17487	OD2	ASP	E	63	52.174	-32.958	-55.340	1.00	39.96	E	O
ATOM	17488	C	ASP	E	63	56.234	-35.164	-56.796	1.00	30.06	E	C
ATOM	17489	O	ASP	E	63	56.893	-35.206	-55.735	1.00	23.42	E	O
ATOM	17491	N	PHE	E	64	56.343	-36.096	-57.748	1.00	23.74	E	N
ATOM	17492	CA	PHE	E	64	57.198	-37.264	-57.580	1.00	26.32	E	C
ATOM	17494	CB	PHE	E	64	56.328	-38.502	-57.490	1.00	20.36	E	C
ATOM	17497	CG	PHE	E	64	55.487	-38.507	-56.282	1.00	19.04	E	C
ATOM	17498	CD1	PHE	E	64	56.003	-38.962	-55.084	1.00	20.13	E	C
ATOM	17500	CE1	PHE	E	64	55.254	-38.921	-53.950	1.00	22.53	E	C
ATOM	17502	CZ	PHE	E	64	53.966	-38.396	-53.989	1.00	18.73	E	C
ATOM	17504	CE2	PHE	E	64	53.450	-37.911	-55.163	1.00	17.94	E	C
ATOM	17506	CD2	PHE	E	64	54.200	-37.955	-56.306	1.00	20.70	E	C
ATOM	17508	C	PHE	E	64	58.237	-37.402	-58.668	1.00	24.60	E	C
ATOM	17509	O	PHE	E	64	58.766	-38.483	-58.891	1.00	33.90	E	O
ATOM	17511	N	LYS	E	65	58.533	-36.300	-59.341	1.00	29.38	E	N
ATOM	17512	CA	LYS	E	65	59.609	-36.284	-60.316	1.00	33.29	E	C
ATOM	17514	CB	LYS	E	65	59.334	-35.234	-61.394	1.00	35.87	E	C
ATOM	17517	CG	LYS	E	65	58.084	-35.521	-62.226	1.00	36.19	E	C
ATOM	17520	CD	LYS	E	65	57.727	-34.347	-63.127	1.00	36.57	E	C
ATOM	17523	CE	LYS	E	65	57.011	-34.800	-64.387	1.00	35.68	E	C
ATOM	17526	NZ	LYS	E	65	56.228	-33.677	-64.975	1.00	40.68	E	N
ATOM	17530	C	LYS	E	65	60.899	-35.977	-59.569	1.00	31.57	E	C
ATOM	17531	O	LYS	E	65	60.982	-34.979	-58.851	1.00	32.77	E	O
ATOM	17533	N	GLY	E	66	61.884	-36.857	-59.698	1.00	36.07	E	N
ATOM	17534	CA	GLY	E	66	63.224	-36.585	-59.170	1.00	32.70	E	C
ATOM	17537	C	GLY	E	66	63.802	-37.665	-58.289	1.00	29.23	E	C
ATOM	17538	O	GLY	E	66	64.744	-38.347	-58.684	1.00	33.74	E	O
ATOM	17540	N	ARG	E	67	63.275	-37.806	-57.082	1.00	20.61	E	N
ATOM	17541	CA	ARG	E	67	63.791	-38.805	-56.155	1.00	25.40	E	C
ATOM	17543	CB	ARG	E	67	63.706	-38.311	-54.713	1.00	23.13	E	C
ATOM	17546	CG	ARG	E	67	64.315	-36.956	-54.508	1.00	26.67	E	C
ATOM	17549	CD	ARG	E	67	64.396	-36.571	-53.041	1.00	26.08	E	C
ATOM	17552	NE	ARG	E	67	63.073	-36.340	-52.463	1.00	25.32	E	N
ATOM	17554	CZ	ARG	E	67	62.444	-37.152	-51.621	1.00	22.19	E	C
ATOM	17555	NH1	ARG	E	67	62.993	-38.285	-51.226	1.00	23.36	E	N
ATOM	17558	NH2	ARG	E	67	61.242	-36.820	-51.181	1.00	25.96	E	N
ATOM	17561	C	ARG	E	67	63.109	-40.175	-56.264	1.00	25.60	E	C
ATOM	17562	O	ARG	E	67	63.494	-41.100	-55.540	1.00	24.89	E	O
ATOM	17564	N	PHE	E	68	62.132	-40.309	-57.170	1.00	27.13	E	N

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ATOM	17565	CA	PHE	E	68	61.286	-41.518	-57.273	1.00	23.54	E	C
ATOM	17567	CB	PHE	E	68	59.804	-41.163	-57.062	1.00	22.48	E	C
ATOM	17570	CG	PHE	E	68	59.522	-40.523	-55.744	1.00	23.93	E	C
ATOM	17571	CD1	PHE	E	68	59.071	-41.272	-54.677	1.00	25.35	E	C
ATOM	17573	CE1	PHE	E	68	58.829	-40.677	-53.459	1.00	18.46	E	C
ATOM	17575	CZ	PHE	E	68	59.048	-39.333	-53.297	1.00	20.39	E	C
ATOM	17577	CE2	PHE	E	68	59.479	-38.574	-54.346	1.00	22.00	E	C
ATOM	17579	CD2	PHE	E	68	59.713	-39.162	-55.562	1.00	26.97	E	C
ATOM	17581	C	PHE	E	68	61.444	-42.179	-58.625	1.00	23.80	E	C
ATOM	17582	O	PHE	E	68	61.245	-41.519	-59.655	1.00	20.89	E	O
ATOM	17584	N	VAL	E	69	61.799	-43.473	-58.619	1.00	26.79	E	N
ATOM	17585	CA	VAL	E	69	62.053	-44.239	-59.845	1.00	21.38	E	C
ATOM	17587	CB	VAL	E	69	63.554	-44.462	-60.064	1.00	23.11	E	C
ATOM	17589	CG1	VAL	E	69	63.790	-45.183	-61.375	1.00	12.41	E	C
ATOM	17593	CG2	VAL	E	69	64.277	-43.142	-60.048	1.00	22.42	E	C
ATOM	17597	C	VAL	E	69	61.350	-45.592	-59.861	1.00	20.04	E	C
ATOM	17598	O	VAL	E	69	61.484	-46.377	-58.928	1.00	18.12	E	O
ATOM	17600	N	PHE	E	70	60.577	-45.851	-60.915	1.00	18.90	E	N
ATOM	17601	CA	PHE	E	70	59.922	-47.146	-61.088	1.00	19.62	E	C
ATOM	17603	CB	PHE	E	70	58.535	-47.034	-61.751	1.00	19.63	E	C
ATOM	17606	CG	PHE	E	70	57.622	-45.995	-61.131	1.00	19.70	E	C
ATOM	17607	CD1	PHE	E	70	57.538	-45.840	-59.756	1.00	20.68	E	C
ATOM	17609	CE1	PHE	E	70	56.696	-44.865	-59.193	1.00	19.59	E	C
ATOM	17611	CZ	PHE	E	70	55.932	-44.052	-60.005	1.00	21.53	E	C
ATOM	17613	CE2	PHE	E	70	56.004	-44.209	-61.392	1.00	19.33	E	C
ATOM	17615	CD2	PHE	E	70	56.847	-45.176	-61.937	1.00	18.38	E	C
ATOM	17617	C	PHE	E	70	60.811	-48.023	-61.956	1.00	18.55	E	C
ATOM	17618	O	PHE	E	70	61.389	-47.543	-62.938	1.00	23.45	E	O
ATOM	17620	N	SER	E	71	60.910	-49.299	-61.589	1.00	16.20	E	N
ATOM	17621	CA	SER	E	71	61.559	-50.312	-62.426	1.00	20.12	E	C
ATOM	17623	CB	SER	E	71	63.018	-50.509	-62.014	1.00	16.10	E	C
ATOM	17626	OG	SER	E	71	63.108	-50.686	-60.621	1.00	24.00	E	O
ATOM	17628	C	SER	E	71	60.784	-51.620	-62.333	1.00	22.37	E	C
ATOM	17629	O	SER	E	71	59.823	-51.724	-61.551	1.00	22.67	E	O
ATOM	17631	N	LEU	E	72	61.191	-52.590	-63.158	1.00	20.88	E	N
ATOM	17632	CA	LEU	E	72	60.559	-53.904	-63.253	1.00	17.96	E	C
ATOM	17634	CB	LEU	E	72	59.894	-54.064	-64.616	1.00	21.62	E	C
ATOM	17637	CG	LEU	E	72	58.892	-52.997	-65.021	1.00	17.90	E	C
ATOM	17639	CD1	LEU	E	72	58.557	-53.154	-66.481	1.00	13.13	E	C
ATOM	17643	CD2	LEU	E	72	57.675	-53.082	-64.123	1.00	24.52	E	C
ATOM	17647	C	LEU	E	72	61.569	-55.008	-63.154	1.00	21.97	E	C
ATOM	17648	O	LEU	E	72	62.710	-54.819	-63.524	1.00	19.71	E	O
ATOM	17650	N	ASP	E	73	61.146	-56.159	-62.645	1.00	26.26	E	N
ATOM	17651	CA	ASP	E	73	61.794	-57.418	-62.985	1.00	27.11	E	C
ATOM	17653	CB	ASP	E	73	62.525	-58.059	-61.813	1.00	28.49	E	C
ATOM	17656	CG	ASP	E	73	63.470	-59.175	-62.267	1.00	24.66	E	C
ATOM	17657	OD1	ASP	E	73	63.227	-59.744	-63.347	1.00	22.38	E	O
ATOM	17658	OD2	ASP	E	73	64.453	-59.475	-61.564	1.00	25.32	E	O
ATOM	17659	C	ASP	E	73	60.717	-58.344	-63.538	1.00	29.33	E	C
ATOM	17660	O	ASP	E	73	60.014	-59.025	-62.805	1.00	29.91	E	O
ATOM	17662	N	THR	E	74	60.618	-58.353	-64.856	1.00	30.27	E	N
ATOM	17663	CA	THR	E	74	59.529	-59.005	-65.551	1.00	32.11	E	C
ATOM	17665	CB	THR	E	74	59.524	-58.542	-67.030	1.00	30.75	E	C
ATOM	17667	OG1	THR	E	74	58.245	-58.007	-67.347	1.00	35.93	E	O
ATOM	17669	CG2	THR	E	74	59.881	-59.640	-67.974	1.00	30.98	E	C
ATOM	17673	C	THR	E	74	59.582	-60.537	-65.391	1.00	32.79	E	C
ATOM	17674	O	THR	E	74	58.545	-61.203	-65.369	1.00	35.69	E	O
ATOM	17676	N	SER	E	75	60.791	-61.076	-65.245	1.00	36.20	E	N
ATOM	17677	CA	SER	E	75	61.002	-62.506	-64.996	1.00	34.83	E	C
ATOM	17679	CB	SER	E	75	62.491	-62.826	-65.091	1.00	35.55	E	C
ATOM	17682	OG	SER	E	75	63.159	-62.364	-63.935	1.00	34.07	E	O
ATOM	17684	C	SER	E	75	60.476	-62.997	-63.632	1.00	37.76	E	C
ATOM	17685	O	SER	E	75	60.246	-64.194	-63.451	1.00	35.12	E	O
ATOM	17687	N	VAL	E	76	60.321	-62.080	-62.673	1.00	35.85	E	N
ATOM	17688	CA	VAL	E	76	59.753	-62.398	-61.359	1.00	31.84	E	C
ATOM	17690	CB	VAL	E	76	60.757	-62.062	-60.242	1.00	32.64	E	C
ATOM	17692	CG1	VAL	E	76	60.120	-62.161	-58.878	1.00	39.14	E	C
ATOM	17696	CG2	VAL	E	76	61.946	-63.014	-60.323	1.00	35.23	E	C

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ATOM	17700	C	VAL	E	76	58.436	-61.635	-61.192	1.00	32.03	E	C
ATOM	17701	O	VAL	E	76	57.901	-61.509	-60.088	1.00	30.94	E	O
ATOM	17703	N	SER	E	77	57.912	-61.163	-62.322	1.00	28.84	E	N
ATOM	17704	CA	SER	E	77	56.730	-60.330	-62.386	1.00	30.11	E	C
ATOM	17706	CB	SER	E	77	55.490	-61.215	-62.526	1.00	31.53	E	C
ATOM	17709	OG	SER	E	77	55.279	-61.944	-61.349	1.00	39.14	E	O
ATOM	17711	C	SER	E	77	56.627	-59.376	-61.194	1.00	25.33	E	C
ATOM	17712	O	SER	E	77	55.657	-59.396	-60.460	1.00	21.60	E	O
ATOM	17714	N	THR	E	78	57.661	-58.556	-61.009	1.00	26.14	E	N
ATOM	17715	CA	THR	E	78	57.737	-57.612	-59.886	1.00	25.05	E	C
ATOM	17717	CB	THR	E	78	58.844	-58.038	-58.880	1.00	24.81	E	C
ATOM	17719	OG1	THR	E	78	58.665	-59.407	-58.528	1.00	26.63	E	O
ATOM	17721	CG2	THR	E	78	58.823	-57.209	-57.607	1.00	19.58	E	C
ATOM	17725	C	THR	E	78	57.995	-56.188	-60.401	1.00	23.95	E	C
ATOM	17726	O	THR	E	78	58.771	-55.992	-61.335	1.00	22.95	E	O
ATOM	17728	N	ALA	E	79	57.294	-55.223	-59.807	1.00	22.50	E	N
ATOM	17729	CA	ALA	E	79	57.521	-53.799	-60.009	1.00	21.03	E	C
ATOM	17731	CB	ALA	E	79	56.196	-53.077	-60.292	1.00	15.40	E	C
ATOM	17735	C	ALA	E	79	58.145	-53.254	-58.742	1.00	20.97	E	C
ATOM	17736	O	ALA	E	79	57.826	-53.714	-57.642	1.00	20.71	E	O
ATOM	17738	N	TYR	E	80	59.033	-52.277	-58.901	1.00	21.36	E	N
ATOM	17739	CA	TYR	E	80	59.726	-51.646	-57.784	1.00	22.23	E	C
ATOM	17741	CB	TYR	E	80	61.239	-51.957	-57.827	1.00	24.92	E	C
ATOM	17744	CG	TYR	E	80	61.554	-53.413	-57.885	1.00	21.60	E	C
ATOM	17745	CD1	TYR	E	80	61.659	-54.162	-56.719	1.00	24.57	E	C
ATOM	17747	CE1	TYR	E	80	61.966	-55.510	-56.756	1.00	25.85	E	C
ATOM	17749	CZ	TYR	E	80	62.140	-56.139	-57.978	1.00	26.02	E	C
ATOM	17750	OH	TYR	E	80	62.440	-57.482	-57.999	1.00	27.13	E	O
ATOM	17752	CE2	TYR	E	80	62.035	-55.421	-59.162	1.00	23.64	E	C
ATOM	17754	CD2	TYR	E	80	61.743	-54.059	-59.109	1.00	24.53	E	C
ATOM	17756	C	TYR	E	80	59.581	-50.145	-57.773	1.00	21.55	E	C
ATOM	17757	O	TYR	E	80	59.479	-49.492	-58.814	1.00	19.84	E	O
ATOM	17759	N	LEU	E	81	59.596	-49.602	-56.564	1.00	24.83	E	N
ATOM	17760	CA	LEU	E	81	59.677	-48.173	-56.368	1.00	23.80	E	C
ATOM	17762	CB	LEU	E	81	58.448	-47.641	-55.624	1.00	23.00	E	C
ATOM	17765	CG	LEU	E	81	58.463	-46.204	-55.077	1.00	20.80	E	C
ATOM	17767	CD1	LEU	E	81	58.547	-45.101	-56.167	1.00	9.61	E	C
ATOM	17771	CD2	LEU	E	81	57.244	-46.047	-54.207	1.00	16.24	E	C
ATOM	17775	C	LEU	E	81	60.932	-47.942	-55.572	1.00	21.64	E	C
ATOM	17776	O	LEU	E	81	61.082	-48.463	-54.485	1.00	23.91	E	O
ATOM	17778	N	GLN	E	82	61.856	-47.195	-56.144	1.00	21.13	E	N
ATOM	17779	CA	GLN	E	82	63.016	-46.754	-55.414	1.00	21.41	E	C
ATOM	17781	CB	GLN	E	82	64.269	-46.995	-56.245	1.00	23.14	E	C
ATOM	17784	CG	GLN	E	82	65.551	-46.727	-55.528	1.00	22.93	E	C
ATOM	17787	CD	GLN	E	82	66.736	-47.246	-56.308	1.00	26.57	E	C
ATOM	17788	OE1	GLN	E	82	67.004	-48.433	-56.304	1.00	23.58	E	O
ATOM	17789	NE2	GLN	E	82	67.438	-46.354	-56.999	1.00	32.14	E	N
ATOM	17792	C	GLN	E	82	62.851	-45.278	-55.072	1.00	16.59	E	C
ATOM	17793	O	GLN	E	82	62.543	-44.466	-55.942	1.00	19.82	E	O
ATOM	17795	N	ILE	E	83	63.016	-44.950	-53.792	1.00	20.99	E	N
ATOM	17796	CA	ILE	E	83	63.075	-43.555	-53.330	1.00	21.79	E	C
ATOM	17798	CB	ILE	E	83	62.039	-43.230	-52.227	1.00	21.02	E	C
ATOM	17800	CG1	ILE	E	83	60.711	-43.937	-52.484	1.00	19.35	E	C
ATOM	17803	CD1	ILE	E	83	59.667	-43.716	-51.366	1.00	21.19	E	C
ATOM	17807	CG2	ILE	E	83	61.839	-41.713	-52.149	1.00	18.89	E	C
ATOM	17811	C	ILE	E	83	64.450	-43.210	-52.764	1.00	23.74	E	C
ATOM	17812	O	ILE	E	83	64.958	-43.894	-51.869	1.00	21.30	E	O
ATOM	17814	N	SER	E	84	65.022	-42.116	-53.263	1.00	26.69	E	N
ATOM	17815	CA	SER	E	84	66.364	-41.678	-52.890	1.00	25.06	E	C
ATOM	17817	CB	SER	E	84	67.138	-41.311	-54.139	1.00	27.73	E	C
ATOM	17820	OG	SER	E	84	67.281	-42.450	-54.946	1.00	32.86	E	O
ATOM	17822	C	SER	E	84	66.333	-40.474	-51.981	1.00	25.62	E	C
ATOM	17823	O	SER	E	84	65.310	-39.818	-51.868	1.00	27.47	E	O
ATOM	17825	N	SER	E	85	67.467	-40.187	-51.340	1.00	28.80	E	N
ATOM	17826	CA	SER	E	85	67.618	-39.008	-50.488	1.00	27.22	E	C
ATOM	17828	CB	SER	E	85	67.804	-37.769	-51.353	1.00	30.22	E	C
ATOM	17831	OG	SER	E	85	68.946	-37.920	-52.184	1.00	32.28	E	O
ATOM	17833	C	SER	E	85	66.432	-38.827	-49.541	1.00	27.81	E	C

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ATOM	17834	O	SER	E	85	65.836	-37.750	-49.465	1.00	24.90	E	O
ATOM	17836	N	LEU	E	86	66.120	-39.899	-48.814	1.00	26.51	E	N
ATOM	17837	CA	LEU	E	86	64.944	-39.959	-47.951	1.00	29.18	E	C
ATOM	17839	CB	LEU	E	86	64.875	-41.318	-47.246	1.00	29.09	E	C
ATOM	17842	CG	LEU	E	86	64.462	-42.495	-48.138	1.00	25.28	E	C
ATOM	17844	CD1	LEU	E	86	64.699	-43.803	-47.443	1.00	23.42	E	C
ATOM	17848	CD2	LEU	E	86	63.003	-42.386	-48.532	1.00	20.35	E	C
ATOM	17852	C	LEU	E	86	64.894	-38.827	-46.931	1.00	30.66	E	C
ATOM	17853	O	LEU	E	86	65.899	-38.488	-46.313	1.00	31.70	E	O
ATOM	17855	N	LYS	E	87	63.708	-38.224	-46.815	1.00	33.24	E	N
ATOM	17856	CA	LYS	E	87	63.401	-37.172	-45.850	1.00	35.49	E	C
ATOM	17858	CB	LYS	E	87	62.763	-35.957	-46.555	1.00	38.89	E	C
ATOM	17861	CG	LYS	E	87	63.598	-35.378	-47.698	1.00	40.14	E	C
ATOM	17864	CD	LYS	E	87	62.825	-34.392	-48.583	1.00	41.06	E	C
ATOM	17867	CE	LYS	E	87	63.761	-33.806	-49.680	1.00	43.26	E	C
ATOM	17870	NZ	LYS	E	87	63.074	-32.929	-50.697	1.00	41.97	E	N
ATOM	17874	C	LYS	E	87	62.397	-37.775	-44.879	1.00	35.49	E	C
ATOM	17875	O	LYS	E	87	61.723	-38.745	-45.217	1.00	35.37	E	O
ATOM	17877	N	ALA	E	88	62.282	-37.188	-43.688	1.00	36.11	E	N
ATOM	17878	CA	ALA	E	88	61.264	-37.595	-42.701	1.00	33.64	E	C
ATOM	17880	CB	ALA	E	88	61.353	-36.718	-41.444	1.00	29.97	E	C
ATOM	17884	C	ALA	E	88	59.856	-37.543	-43.292	1.00	30.38	E	C
ATOM	17885	O	ALA	E	88	59.009	-38.356	-42.947	1.00	27.79	E	O
ATOM	17887	N	GLU	E	89	59.641	-36.586	-44.194	1.00	33.32	E	N
ATOM	17888	CA	GLU	E	89	58.355	-36.351	-44.858	1.00	33.72	E	C
ATOM	17890	CB	GLU	E	89	58.381	-35.018	-45.613	1.00	38.76	E	C
ATOM	17893	CG	GLU	E	89	58.381	-33.777	-44.716	1.00	41.68	E	C
ATOM	17896	CD	GLU	E	89	59.757	-33.396	-44.200	1.00	46.63	E	C
ATOM	17897	OE1	GLU	E	89	60.764	-33.792	-44.833	1.00	44.32	E	O
ATOM	17898	OE2	GLU	E	89	59.827	-32.693	-43.159	1.00	49.77	E	O
ATOM	17899	C	GLU	E	89	57.953	-37.442	-45.849	1.00	34.39	E	C
ATOM	17900	O	GLU	E	89	56.794	-37.489	-46.272	1.00	31.31	E	O
ATOM	17902	N	ASP	E	90	58.913	-38.285	-46.240	1.00	31.74	E	N
ATOM	17903	CA	ASP	E	90	58.628	-39.465	-47.057	1.00	27.31	E	C
ATOM	17905	CB	ASP	E	90	59.884	-39.973	-47.748	1.00	24.96	E	C
ATOM	17908	CG	ASP	E	90	60.421	-39.005	-48.744	1.00	22.36	E	C
ATOM	17909	OD1	ASP	E	90	59.625	-38.292	-49.370	1.00	26.32	E	O
ATOM	17910	OD2	ASP	E	90	61.650	-38.989	-48.934	1.00	26.57	E	O
ATOM	17911	C	ASP	E	90	58.027	-40.605	-46.256	1.00	22.79	E	C
ATOM	17912	O	ASP	E	90	57.652	-41.621	-46.837	1.00	25.51	E	O
ATOM	17914	N	THR	E	91	57.964	-40.461	-44.936	1.00	23.54	E	N
ATOM	17915	CA	THR	E	91	57.273	-41.432	-44.089	1.00	24.73	E	C
ATOM	17917	CB	THR	E	91	57.300	-41.025	-42.592	1.00	26.19	E	C
ATOM	17919	OG1	THR	E	91	58.657	-40.893	-42.150	1.00	23.99	E	O
ATOM	17921	CG2	THR	E	91	56.569	-42.051	-41.722	1.00	24.19	E	C
ATOM	17925	C	THR	E	91	55.829	-41.524	-44.557	1.00	26.14	E	C
ATOM	17926	O	THR	E	91	55.066	-40.546	-44.481	1.00	26.53	E	O
ATOM	17928	N	ALA	E	92	55.471	-42.697	-45.070	1.00	23.41	E	N
ATOM	17929	CA	ALA	E	92	54.172	-42.909	-45.676	1.00	20.23	E	C
ATOM	17931	CB	ALA	E	92	54.043	-42.051	-46.945	1.00	18.83	E	C
ATOM	17935	C	ALA	E	92	53.974	-44.379	-46.016	1.00	17.50	E	C
ATOM	17936	O	ALA	E	92	54.949	-45.135	-46.095	1.00	21.47	E	O
ATOM	17938	N	VAL	E	93	52.715	-44.767	-46.234	1.00	22.88	E	N
ATOM	17939	CA	VAL	E	93	52.374	-46.033	-46.892	1.00	21.18	E	C
ATOM	17941	CB	VAL	E	93	50.993	-46.569	-46.457	1.00	20.20	E	C
ATOM	17943	CG1	VAL	E	93	50.676	-47.864	-47.191	1.00	14.16	E	C
ATOM	17947	CG2	VAL	E	93	50.955	-46.805	-44.935	1.00	21.20	E	C
ATOM	17951	C	VAL	E	93	52.385	-45.860	-48.422	1.00	23.32	E	C
ATOM	17952	O	VAL	E	93	51.793	-44.929	-48.960	1.00	23.78	E	O
ATOM	17954	N	TYR	E	94	53.063	-46.771	-49.107	1.00	24.98	E	N
ATOM	17955	CA	TYR	E	94	53.184	-46.757	-50.569	1.00	21.09	E	C
ATOM	17957	CB	TYR	E	94	54.656	-46.789	-50.981	1.00	18.31	E	C
ATOM	17960	CG	TYR	E	94	55.393	-45.546	-50.563	1.00	16.32	E	C
ATOM	17961	CD1	TYR	E	94	55.510	-44.469	-51.432	1.00	19.59	E	C
ATOM	17963	CE1	TYR	E	94	56.152	-43.308	-51.061	1.00	17.02	E	C
ATOM	17965	CZ	TYR	E	94	56.703	-43.201	-49.819	1.00	17.08	E	C
ATOM	17966	OH	TYR	E	94	57.331	-42.027	-49.512	1.00	21.17	E	O
ATOM	17968	CE2	TYR	E	94	56.618	-44.248	-48.916	1.00	16.36	E	C

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ATOM	17970	CD2	TYR	E	94	55.966	-45.432	-49.299	1.00	18.62	E	C
ATOM	17972	C	TYR	E	94	52.504	-47.994	-51.097	1.00	21.71	E	C
ATOM	17973	O	TYR	E	94	52.835	-49.104	-50.674	1.00	32.23	E	O
ATOM	17975	N	TYR	E	95	51.575	-47.802	-52.029	1.00	23.89	E	N
ATOM	17976	CA	TYR	E	95	50.782	-48.886	-52.602	1.00	23.75	E	C
ATOM	17978	CB	TYR	E	95	49.301	-48.540	-52.553	1.00	24.60	E	C
ATOM	17981	CG	TYR	E	95	48.684	-48.400	-51.195	1.00	25.48	E	C
ATOM	17982	CD1	TYR	E	95	48.298	-49.528	-50.476	1.00	22.52	E	C
ATOM	17984	CE1	TYR	E	95	47.677	-49.409	-49.238	1.00	25.46	E	C
ATOM	17986	CZ	TYR	E	95	47.434	-48.158	-48.715	1.00	25.51	E	C
ATOM	17987	OH	TYR	E	95	46.840	-48.079	-47.485	1.00	28.74	E	O
ATOM	17989	CE2	TYR	E	95	47.794	-46.997	-49.419	1.00	23.62	E	C
ATOM	17991	CD2	TYR	E	95	48.400	-47.126	-50.657	1.00	26.10	E	C
ATOM	17993	C	TYR	E	95	51.078	-49.042	-54.071	1.00	22.24	E	C
ATOM	17994	O	TYR	E	95	51.351	-48.074	-54.759	1.00	24.85	E	O
ATOM	17996	N	CYS	E	96	50.953	-50.260	-54.553	1.00	24.35	E	N
ATOM	17997	CA	CYS	E	96	50.874	-50.504	-55.974	1.00	28.02	E	C
ATOM	17999	CB	CYS	E	96	51.855	-51.607	-56.411	1.00	28.06	E	C
ATOM	18002	SG	CYS	E	96	51.699	-53.139	-55.512	1.00	32.92	E	S
ATOM	18004	C	CYS	E	96	49.426	-50.860	-56.286	1.00	23.39	E	C
ATOM	18005	O	CYS	E	96	48.676	-51.360	-55.434	1.00	22.74	E	O
ATOM	18007	N	GLU	E	97	49.032	-50.549	-57.507	1.00	21.55	E	N
ATOM	18008	CA	GLU	E	97	47.721	-50.839	-57.985	1.00	20.52	E	C
ATOM	18010	CB	GLU	E	97	46.837	-49.587	-57.876	1.00	26.41	E	C
ATOM	18013	CG	GLU	E	97	45.426	-49.752	-58.465	1.00	24.17	E	C
ATOM	18016	CD	GLU	E	97	44.740	-48.442	-58.791	1.00	25.51	E	C
ATOM	18017	OE1	GLU	E	97	45.445	-47.468	-59.116	1.00	27.02	E	O
ATOM	18018	OE2	GLU	E	97	43.488	-48.409	-58.745	1.00	23.30	E	O
ATOM	18019	C	GLU	E	97	47.840	-51.255	-59.436	1.00	23.91	E	C
ATOM	18020	O	GLU	E	97	48.330	-50.507	-60.263	1.00	22.36	E	O
ATOM	18022	N	ARG	E	98	47.366	-52.440	-59.765	1.00	26.29	E	N
ATOM	18023	CA	ARG	E	98	47.316	-52.814	-61.159	1.00	24.99	E	C
ATOM	18025	CB	ARG	E	98	46.925	-54.276	-61.286	1.00	26.18	E	C
ATOM	18028	CG	ARG	E	98	46.875	-54.759	-62.702	1.00	27.37	E	C
ATOM	18031	CD	ARG	E	98	46.392	-56.159	-62.757	1.00	24.02	E	C
ATOM	18034	NE	ARG	E	98	44.947	-56.254	-62.627	1.00	20.20	E	N
ATOM	18036	CZ	ARG	E	98	44.232	-57.291	-63.027	1.00	20.72	E	C
ATOM	18037	NH1	ARG	E	98	44.828	-58.334	-63.584	1.00	20.91	E	N
ATOM	18040	NH2	ARG	E	98	42.906	-57.278	-62.895	1.00	19.62	E	N
ATOM	18043	C	ARG	E	98	46.337	-51.882	-61.884	1.00	23.45	E	C
ATOM	18044	O	ARG	E	98	45.215	-51.678	-61.423	1.00	23.36	E	O
ATOM	18046	N	GLU	E	99	46.781	-51.294	-62.997	1.00	23.02	E	N
ATOM	18047	CA	GLU	E	99	45.910	-50.493	-63.893	1.00	27.53	E	C
ATOM	18049	CB	GLU	E	99	46.764	-49.405	-64.551	1.00	24.81	E	C
ATOM	18052	CG	GLU	E	99	46.009	-48.497	-65.500	1.00	19.47	E	C
ATOM	18055	CD	GLU	E	99	44.822	-47.843	-64.880	1.00	25.79	E	C
ATOM	18056	OE1	GLU	E	99	44.718	-47.780	-63.630	1.00	23.21	E	O
ATOM	18057	OE2	GLU	E	99	43.984	-47.361	-65.662	1.00	27.51	E	O
ATOM	18058	C	GLU	E	99	45.414	-51.465	-64.942	1.00	26.47	E	C
ATOM	18059	O	GLU	E	99	46.049	-51.609	-65.978	1.00	30.84	E	O
ATOM	18061	N	GLY	E	100	44.299	-52.152	-64.748	1.00	33.02	E	N
ATOM	18062	CA	GLY	E	100	42.912	-51.710	-64.957	1.00	27.89	E	C
ATOM	18065	C	GLY	E	100	42.283	-53.123	-64.875	1.00	28.71	E	C
ATOM	18066	O	GLY	E	100	42.874	-54.001	-64.248	1.00	29.43	E	O
ATOM	18068	N	GLY	E	101	41.128	-53.387	-65.487	1.00	33.38	E	N
ATOM	18069	CA	GLY	E	101	40.415	-54.653	-65.258	1.00	29.46	E	C
ATOM	18072	C	GLY	E	101	39.858	-54.667	-63.845	1.00	27.19	E	C
ATOM	18073	O	GLY	E	101	39.791	-53.633	-63.190	1.00	29.35	E	O
ATOM	18075	N	VAL	E	108	39.471	-55.833	-63.351	1.00	29.50	E	N
ATOM	18076	CA	VAL	E	108	38.991	-55.936	-61.968	1.00	26.08	E	C
ATOM	18078	CB	VAL	E	108	38.706	-57.397	-61.556	1.00	22.76	E	C
ATOM	18080	CG1	VAL	E	108	38.468	-57.500	-60.035	1.00	12.62	E	C
ATOM	18084	CG2	VAL	E	108	37.514	-57.924	-62.351	1.00	23.11	E	C
ATOM	18088	C	VAL	E	108	40.059	-55.323	-61.083	1.00	23.76	E	C
ATOM	18089	O	VAL	E	108	41.213	-55.740	-61.127	1.00	29.15	E	O
ATOM	18091	N	ASN	E	109	39.677	-54.325	-60.297	1.00	25.50	E	N
ATOM	18092	CA	ASN	E	109	40.641	-53.463	-59.613	1.00	26.20	E	C
ATOM	18094	CB	ASN	E	109	39.958	-52.186	-59.141	1.00	24.73	E	C

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ATOM	18097	CG	ASN	E	109	40.947	-51.134	-58.688	1.00	24.12	E	C
ATOM	18098	OD1	ASN	E	109	41.635	-50.531	-59.495	1.00	29.11	E	O
ATOM	18099	ND2	ASN	E	109	40.992	-50.888	-57.398	1.00	20.31	E	N
ATOM	18102	C	ASN	E	109	41.350	-54.111	-58.421	1.00	28.69	E	C
ATOM	18103	O	ASN	E	109	40.724	-54.396	-57.405	1.00	22.78	E	O
ATOM	18105	N	ASN	E	110	42.672	-54.264	-58.556	1.00	26.87	E	N
ATOM	18106	CA	ASN	E	110	43.522	-54.890	-57.557	1.00	27.53	E	C
ATOM	18108	CB	ASN	E	110	44.113	-56.164	-58.140	1.00	27.19	E	C
ATOM	18111	CG	ASN	E	110	43.118	-57.300	-58.137	1.00	28.62	E	C
ATOM	18112	OD1	ASN	E	110	42.999	-58.018	-57.146	1.00	33.65	E	O
ATOM	18113	ND2	ASN	E	110	42.387	-57.460	-59.233	1.00	22.75	E	N
ATOM	18116	C	ASN	E	110	44.643	-53.994	-57.014	1.00	28.89	E	C
ATOM	18117	O	ASN	E	110	45.389	-53.381	-57.784	1.00	26.09	E	O
ATOM	18119	N	TRP	E	111	44.731	-53.932	-55.678	1.00	25.29	E	N
ATOM	18120	CA	TRP	E	111	45.787	-53.214	-54.975	1.00	25.75	E	C
ATOM	18122	CB	TRP	E	111	45.196	-52.264	-53.961	1.00	21.23	E	C
ATOM	18125	CG	TRP	E	111	44.494	-51.114	-54.532	1.00	21.11	E	C
ATOM	18126	CD1	TRP	E	111	43.388	-51.141	-55.315	1.00	19.91	E	C
ATOM	18128	NE1	TRP	E	111	43.010	-49.872	-55.632	1.00	22.06	E	N
ATOM	18130	CE2	TRP	E	111	43.876	-48.988	-55.055	1.00	20.26	E	C
ATOM	18131	CD2	TRP	E	111	44.822	-49.740	-54.345	1.00	18.19	E	C
ATOM	18132	CE3	TRP	E	111	45.835	-49.072	-53.662	1.00	22.18	E	C
ATOM	18134	CZ3	TRP	E	111	45.875	-47.694	-53.722	1.00	21.63	E	C
ATOM	18136	CH2	TRP	E	111	44.901	-46.973	-54.417	1.00	22.86	E	C
ATOM	18138	CZ2	TRP	E	111	43.901	-47.600	-55.097	1.00	19.37	E	C
ATOM	18140	C	TRP	E	111	46.669	-54.192	-54.203	1.00	27.25	E	C
ATOM	18141	O	TRP	E	111	46.196	-55.256	-53.786	1.00	27.81	E	O
ATOM	18143	N	GLY	E	112	47.935	-53.815	-54.000	1.00	26.66	E	N
ATOM	18144	CA	GLY	E	112	48.783	-54.448	-52.996	1.00	27.29	E	C
ATOM	18147	C	GLY	E	112	48.365	-54.001	-51.601	1.00	25.61	E	C
ATOM	18148	O	GLY	E	112	47.526	-53.121	-51.458	1.00	32.03	E	O
ATOM	18150	N	GLN	E	113	48.950	-54.607	-50.573	1.00	31.54	E	N
ATOM	18151	CA	GLN	E	113	48.557	-54.337	-49.180	1.00	26.71	E	C
ATOM	18153	CB	GLN	E	113	48.842	-55.565	-48.285	1.00	29.26	E	C
ATOM	18156	CG	GLN	E	113	50.296	-55.744	-47.734	1.00	31.08	E	C
ATOM	18159	CD	GLN	E	113	51.279	-56.362	-48.732	1.00	31.05	E	C
ATOM	18160	OE1	GLN	E	113	51.025	-56.398	-49.938	1.00	28.43	E	O
ATOM	18161	NE2	GLN	E	113	52.417	-56.855	-48.222	1.00	29.99	E	N
ATOM	18164	C	GLN	E	113	49.182	-53.066	-48.600	1.00	27.85	E	C
ATOM	18165	O	GLN	E	113	48.803	-52.619	-47.510	1.00	28.73	E	O
ATOM	18167	N	GLY	E	114	50.117	-52.468	-49.336	1.00	29.66	E	N
ATOM	18168	CA	GLY	E	114	50.833	-51.287	-48.869	1.00	27.88	E	C
ATOM	18171	C	GLY	E	114	52.127	-51.660	-48.170	1.00	26.39	E	C
ATOM	18172	O	GLY	E	114	52.207	-52.684	-47.506	1.00	26.61	E	O
ATOM	18174	N	THR	E	115	53.146	-50.831	-48.368	1.00	25.61	E	N
ATOM	18175	CA	THR	E	115	54.359	-50.864	-47.578	1.00	24.35	E	C
ATOM	18177	CB	THR	E	115	55.629	-50.996	-48.452	1.00	19.13	E	C
ATOM	18179	OG1	THR	E	115	55.542	-52.158	-49.286	1.00	17.95	E	O
ATOM	18181	CG2	THR	E	115	56.848	-51.089	-47.557	1.00	22.18	E	C
ATOM	18185	C	THR	E	115	54.480	-49.555	-46.811	1.00	22.42	E	C
ATOM	18186	O	THR	E	115	54.521	-48.496	-47.411	1.00	25.63	E	O
ATOM	18188	N	LEU	E	116	54.571	-49.628	-45.485	1.00	25.47	E	N
ATOM	18189	CA	LEU	E	116	54.910	-48.449	-44.701	1.00	23.68	E	C
ATOM	18191	CB	LEU	E	116	54.309	-48.561	-43.307	1.00	25.55	E	C
ATOM	18194	CG	LEU	E	116	54.512	-47.397	-42.329	1.00	26.87	E	C
ATOM	18196	CD1	LEU	E	116	54.370	-46.052	-43.006	1.00	28.24	E	C
ATOM	18200	CD2	LEU	E	116	53.515	-47.520	-41.201	1.00	29.87	E	C
ATOM	18204	C	LEU	E	116	56.438	-48.270	-44.638	1.00	24.44	E	C
ATOM	18205	O	LEU	E	116	57.146	-49.167	-44.204	1.00	20.30	E	O
ATOM	18207	N	VAL	E	117	56.933	-47.123	-45.113	1.00	25.27	E	N
ATOM	18208	CA	VAL	E	117	58.341	-46.739	-44.984	1.00	20.16	E	C
ATOM	18210	CB	VAL	E	117	58.890	-46.197	-46.299	1.00	23.11	E	C
ATOM	18212	CG1	VAL	E	117	60.348	-45.724	-46.140	1.00	19.22	E	C
ATOM	18216	CG2	VAL	E	117	58.761	-47.248	-47.394	1.00	25.16	E	C
ATOM	18220	C	VAL	E	117	58.396	-45.622	-43.946	1.00	20.45	E	C
ATOM	18221	O	VAL	E	117	57.644	-44.677	-44.039	1.00	20.27	E	O
ATOM	18223	N	THR	E	118	59.244	-45.768	-42.933	1.00	21.82	E	N
ATOM	18224	CA	THR	E	118	59.450	-44.740	-41.907	1.00	21.54	E	C

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ATOM	18226	CB	THR	E	118	59.273	-45.336	-40.488	1.00	21.53	E	C
ATOM	18228	OG1	THR	E	118	57.911	-45.748	-40.313	1.00	25.56	E	O
ATOM	18230	CG2	THR	E	118	59.644	-44.330	-39.399	1.00	19.60	E	C
ATOM	18234	C	THR	E	118	60.865	-44.211	-42.085	1.00	21.66	E	C
ATOM	18235	O	THR	E	118	61.800	-45.000	-42.178	1.00	22.62	E	O
ATOM	18237	N	VAL	E	119	61.024	-42.894	-42.178	1.00	20.55	E	N
ATOM	18238	CA	VAL	E	119	62.357	-42.302	-42.253	1.00	23.29	E	C
ATOM	18240	CB	VAL	E	119	62.494	-41.312	-43.411	1.00	19.13	E	C
ATOM	18242	CG1	VAL	E	119	63.930	-40.865	-43.510	1.00	17.35	E	C
ATOM	18246	CG2	VAL	E	119	62.025	-41.956	-44.737	1.00	18.28	E	C
ATOM	18250	C	VAL	E	119	62.713	-41.606	-40.931	1.00	27.58	E	C
ATOM	18251	O	VAL	E	119	62.202	-40.531	-40.633	1.00	29.65	E	O
ATOM	18253	N	SER	E	120	63.599	-42.233	-40.158	1.00	29.33	E	N
ATOM	18254	CA	SER	E	120	63.987	-41.753	-38.830	1.00	33.19	E	C
ATOM	18256	CB	SER	E	120	63.115	-42.410	-37.756	1.00	35.20	E	C
ATOM	18259	OG	SER	E	120	63.167	-41.676	-36.541	1.00	36.92	E	O
ATOM	18261	C	SER	E	120	65.442	-42.092	-38.543	1.00	32.72	E	C
ATOM	18262	O	SER	E	120	65.990	-43.009	-39.141	1.00	30.45	E	O
ATOM	18264	N	SER	E	121	66.060	-41.355	-37.623	1.00	37.17	E	N
ATOM	18265	CA	SER	E	121	67.389	-41.723	-37.103	1.00	37.20	E	C
ATOM	18267	CB	SER	E	121	68.151	-40.488	-36.608	1.00	37.78	E	C
ATOM	18270	OG	SER	E	121	68.500	-39.621	-37.679	1.00	34.29	E	O
ATOM	18272	C	SER	E	121	67.260	-42.750	-35.971	1.00	40.95	E	C
ATOM	18273	O	SER	E	121	68.225	-43.446	-35.639	1.00	41.76	E	O
ATOM	18275	N	ALA	E	122	66.061	-42.842	-35.391	1.00	40.67	E	N
ATOM	18276	CA	ALA	E	122	65.785	-43.767	-34.291	1.00	38.63	E	C
ATOM	18278	CB	ALA	E	122	64.397	-43.480	-33.694	1.00	35.96	E	C
ATOM	18282	C	ALA	E	122	65.885	-45.223	-34.742	1.00	38.47	E	C
ATOM	18283	O	ALA	E	122	65.773	-45.529	-35.935	1.00	38.78	E	O
ATOM	18285	N	SER	E	123	66.097	-46.115	-33.777	1.00	39.35	E	N
ATOM	18286	CA	SER	E	123	66.339	-47.528	-34.054	1.00	39.23	E	C
ATOM	18288	CB	SER	E	123	67.551	-48.032	-33.260	1.00	43.17	E	C
ATOM	18291	OG	SER	E	123	68.700	-47.227	-33.502	1.00	44.30	E	O
ATOM	18293	C	SER	E	123	65.103	-48.345	-33.713	1.00	39.02	E	C
ATOM	18294	O	SER	E	123	64.218	-47.876	-33.001	1.00	40.07	E	O
ATOM	18296	N	THR	E	124	65.052	-49.567	-34.231	1.00	40.54	E	N
ATOM	18297	CA	THR	E	124	63.891	-50.432	-34.082	1.00	39.95	E	C
ATOM	18299	CB	THR	E	124	63.958	-51.621	-35.057	1.00	40.85	E	C
ATOM	18301	OG1	THR	E	124	63.953	-51.134	-36.406	1.00	42.41	E	O
ATOM	18303	CG2	THR	E	124	62.770	-52.552	-34.857	1.00	42.33	E	C
ATOM	18307	C	THR	E	124	63.780	-50.963	-32.656	1.00	42.60	E	C
ATOM	18308	O	THR	E	124	64.792	-51.239	-32.010	1.00	44.92	E	O
ATOM	18310	N	LYS	E	125	62.548	-51.081	-32.169	1.00	40.05	E	N
ATOM	18311	CA	LYS	E	125	62.281	-51.685	-30.872	1.00	38.98	E	C
ATOM	18313	CB	LYS	E	125	62.200	-50.625	-29.773	1.00	39.76	E	C
ATOM	18316	CG	LYS	E	125	62.200	-51.233	-28.373	1.00	41.99	E	C
ATOM	18319	CD	LYS	E	125	61.798	-50.236	-27.295	1.00	42.24	E	C
ATOM	18322	CE	LYS	E	125	61.602	-50.919	-25.932	1.00	42.89	E	C
ATOM	18325	NZ	LYS	E	125	60.554	-52.004	-25.930	1.00	41.30	E	N
ATOM	18329	C	LYS	E	125	60.982	-52.463	-30.915	1.00	35.23	E	C
ATOM	18330	O	LYS	E	125	59.942	-51.917	-31.267	1.00	36.71	E	O
ATOM	18332	N	GLY	E	126	61.041	-53.734	-30.549	1.00	35.30	E	N
ATOM	18333	CA	GLY	E	126	59.846	-54.559	-30.451	1.00	35.86	E	C
ATOM	18336	C	GLY	E	126	59.013	-54.184	-29.241	1.00	36.40	E	C
ATOM	18337	O	GLY	E	126	59.536	-53.660	-28.252	1.00	37.85	E	O
ATOM	18339	N	PRO	E	127	57.708	-54.463	-29.297	1.00	35.89	E	N
ATOM	18340	CA	PRO	E	127	56.833	-54.111	-28.190	1.00	35.78	E	C
ATOM	18342	CB	PRO	E	127	55.443	-54.197	-28.822	1.00	36.64	E	C
ATOM	18345	CG	PRO	E	127	55.578	-55.259	-29.849	1.00	36.16	E	C
ATOM	18348	CD	PRO	E	127	56.978	-55.136	-30.385	1.00	35.95	E	C
ATOM	18351	C	PRO	E	127	56.921	-55.076	-27.009	1.00	36.88	E	C
ATOM	18352	O	PRO	E	127	57.202	-56.264	-27.191	1.00	39.55	E	O
ATOM	18353	N	SER	E	128	56.696	-54.557	-25.807	1.00	33.11	E	N
ATOM	18354	CA	SER	E	128	56.311	-55.391	-24.679	1.00	32.71	E	C
ATOM	18356	CB	SER	E	128	56.673	-54.730	-23.345	1.00	35.31	E	C
ATOM	18359	OG	SER	E	128	58.071	-54.527	-23.222	1.00	34.75	E	O
ATOM	18361	C	SER	E	128	54.803	-55.538	-24.788	1.00	31.04	E	C
ATOM	18362	O	SER	E	128	54.120	-54.594	-25.172	1.00	31.18	E	O

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ATOM	18364	N	VAL	E	129	54.273	-56.710	-24.467	1.00	29.61	E	N
ATOM	18365	CA	VAL	E	129	52.823	-56.915	-24.505	1.00	30.55	E	C
ATOM	18367	CB	VAL	E	129	52.429	-57.962	-25.557	1.00	28.60	E	C
ATOM	18369	CG1	VAL	E	129	50.928	-57.942	-25.789	1.00	29.67	E	C
ATOM	18373	CG2	VAL	E	129	53.177	-57.702	-26.868	1.00	29.87	E	C
ATOM	18377	C	VAL	E	129	52.315	-57.326	-23.116	1.00	31.56	E	C
ATOM	18378	O	VAL	E	129	52.738	-58.346	-22.572	1.00	35.46	E	O
ATOM	18380	N	PHE	E	130	51.424	-56.518	-22.547	1.00	28.21	E	N
ATOM	18381	CA	PHE	E	130	50.883	-56.761	-21.214	1.00	27.39	E	C
ATOM	18383	CB	PHE	E	130	51.134	-55.557	-20.308	1.00	27.09	E	C
ATOM	18386	CG	PHE	E	130	52.575	-55.133	-20.246	1.00	27.89	E	C
ATOM	18387	CD1	PHE	E	130	53.548	-56.003	-19.779	1.00	27.27	E	C
ATOM	18389	CE1	PHE	E	130	54.876	-55.618	-19.716	1.00	26.86	E	C
ATOM	18391	CZ	PHE	E	130	55.248	-54.354	-20.118	1.00	26.67	E	C
ATOM	18393	CE2	PHE	E	130	54.290	-53.472	-20.577	1.00	27.39	E	C
ATOM	18395	CD2	PHE	E	130	52.958	-53.862	-20.637	1.00	27.47	E	C
ATOM	18397	C	PHE	E	130	49.390	-57.018	-21.305	1.00	26.91	E	C
ATOM	18398	O	PHE	E	130	48.736	-56.517	-22.212	1.00	29.62	E	O
ATOM	18400	N	PRO	E	131	48.833	-57.781	-20.353	1.00	27.51	E	N
ATOM	18401	CA	PRO	E	131	47.410	-58.058	-20.395	1.00	28.15	E	C
ATOM	18403	CB	PRO	E	131	47.313	-59.408	-19.695	1.00	27.96	E	C
ATOM	18406	CG	PRO	E	131	48.407	-59.372	-18.680	1.00	27.60	E	C
ATOM	18409	CD	PRO	E	131	49.475	-58.444	-19.204	1.00	28.14	E	C
ATOM	18412	C	PRO	E	131	46.590	-57.017	-19.646	1.00	30.60	E	C
ATOM	18413	O	PRO	E	131	47.012	-56.532	-18.593	1.00	37.40	E	O
ATOM	18414	N	LEU	E	132	45.426	-56.688	-20.196	1.00	28.76	E	N
ATOM	18415	CA	LEU	E	132	44.453	-55.857	-19.514	1.00	28.34	E	C
ATOM	18417	CB	LEU	E	132	43.860	-54.824	-20.477	1.00	27.41	E	C
ATOM	18420	CG	LEU	E	132	44.899	-53.922	-21.143	1.00	26.15	E	C
ATOM	18422	CD1	LEU	E	132	44.283	-53.076	-22.245	1.00	26.83	E	C
ATOM	18426	CD2	LEU	E	132	45.553	-53.042	-20.103	1.00	29.76	E	C
ATOM	18430	C	LEU	E	132	43.405	-56.819	-18.995	1.00	27.96	E	C
ATOM	18431	O	LEU	E	132	42.488	-57.192	-19.721	1.00	31.86	E	O
ATOM	18433	N	ALA	E	133	43.573	-57.243	-17.740	1.00	32.75	E	N
ATOM	18434	CA	ALA	E	133	42.770	-58.314	-17.164	1.00	30.19	E	C
ATOM	18436	CB	ALA	E	133	43.406	-58.801	-15.864	1.00	32.23	E	C
ATOM	18440	C	ALA	E	133	41.328	-57.865	-16.917	1.00	30.06	E	C
ATOM	18441	O	ALA	E	133	41.103	-56.747	-16.455	1.00	32.27	E	O
ATOM	18443	N	PRO	E	134	40.344	-58.732	-17.226	1.00	30.05	E	N
ATOM	18444	CA	PRO	E	134	38.950	-58.433	-16.880	1.00	34.10	E	C
ATOM	18446	CB	PRO	E	134	38.169	-59.491	-17.650	1.00	31.15	E	C
ATOM	18449	CG	PRO	E	134	39.106	-60.632	-17.774	1.00	30.14	E	C
ATOM	18452	CD	PRO	E	134	40.476	-60.040	-17.893	1.00	28.56	E	C
ATOM	18455	C	PRO	E	134	38.723	-58.576	-15.374	1.00	39.66	E	C
ATOM	18456	O	PRO	E	134	39.459	-59.325	-14.728	1.00	44.60	E	O
ATOM	18457	N	SER	E	135	37.730	-57.879	-14.814	1.00	43.36	E	N
ATOM	18458	CA	SER	E	135	37.579	-57.821	-13.344	1.00	44.93	E	C
ATOM	18460	CB	SER	E	135	38.511	-56.744	-12.774	1.00	47.21	E	C
ATOM	18463	OG	SER	E	135	38.208	-55.468	-13.315	1.00	46.19	E	O
ATOM	18465	C	SER	E	135	36.146	-57.587	-12.842	1.00	47.31	E	C
ATOM	18466	O	SER	E	135	35.227	-57.366	-13.634	1.00	44.36	E	O
ATOM	18468	N	SER	E	136	35.984	-57.641	-11.513	1.00	48.97	E	N
ATOM	18469	CA	SER	E	136	34.674	-57.548	-10.846	1.00	47.51	E	C
ATOM	18471	CB	SER	E	136	34.852	-57.581	-9.323	1.00	48.26	E	C
ATOM	18474	OG	SER	E	136	35.563	-58.738	-8.916	1.00	46.55	E	O
ATOM	18476	C	SER	E	136	33.883	-56.305	-11.233	1.00	47.90	E	C
ATOM	18477	O	SER	E	136	32.987	-56.370	-12.077	1.00	49.31	E	O
ATOM	18479	N	GLY	E	142	26.205	-60.189	-17.298	1.00	47.53	E	N
ATOM	18480	CA	GLY	E	142	26.622	-58.914	-17.882	1.00	48.55	E	C
ATOM	18483	C	GLY	E	142	27.757	-59.026	-18.896	1.00	50.08	E	C
ATOM	18484	O	GLY	E	142	28.189	-60.131	-19.236	1.00	51.62	E	O
ATOM	18486	N	THR	E	143	28.235	-57.875	-19.378	1.00	48.52	E	N
ATOM	18487	CA	THR	E	143	29.347	-57.809	-20.337	1.00	45.44	E	C
ATOM	18489	CB	THR	E	143	29.082	-56.749	-21.413	1.00	46.39	E	C
ATOM	18491	OG1	THR	E	143	27.891	-57.099	-22.124	1.00	48.21	E	O
ATOM	18493	CG2	THR	E	143	30.242	-56.651	-22.399	1.00	45.23	E	C
ATOM	18497	C	THR	E	143	30.665	-57.490	-19.633	1.00	44.27	E	C
ATOM	18498	O	THR	E	143	30.701	-56.701	-18.684	1.00	43.94	E	O

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ATOM	18500	N	ALA	E	144	31.739	-58.122	-20.104	1.00	40.61	E	N
ATOM	18501	CA	ALA	E	144	33.076	-57.922	-19.563	1.00	38.56	E	C
ATOM	18503	CB	ALA	E	144	33.610	-59.219	-18.992	1.00	42.64	E	C
ATOM	18507	C	ALA	E	144	34.010	-57.388	-20.648	1.00	37.69	E	C
ATOM	18508	O	ALA	E	144	33.764	-57.573	-21.851	1.00	33.81	E	O
ATOM	18510	N	ALA	E	145	35.068	-56.708	-20.206	1.00	36.38	E	N
ATOM	18511	CA	ALA	E	145	36.053	-56.099	-21.095	1.00	33.12	E	C
ATOM	18513	CB	ALA	E	145	35.943	-54.574	-21.054	1.00	34.74	E	C
ATOM	18517	C	ALA	E	145	37.455	-56.532	-20.714	1.00	29.43	E	C
ATOM	18518	O	ALA	E	145	37.796	-56.599	-19.532	1.00	29.62	E	O
ATOM	18520	N	LEU	E	146	38.255	-56.844	-21.727	1.00	27.86	E	N
ATOM	18521	CA	LEU	E	146	39.657	-57.206	-21.549	1.00	29.49	E	C
ATOM	18523	CB	LEU	E	146	39.821	-58.719	-21.341	1.00	29.77	E	C
ATOM	18526	CG	LEU	E	146	39.246	-59.633	-22.433	1.00	26.61	E	C
ATOM	18528	CD1	LEU	E	146	40.267	-60.675	-22.847	1.00	26.32	E	C
ATOM	18532	CD2	LEU	E	146	37.926	-60.280	-21.996	1.00	23.96	E	C
ATOM	18536	C	LEU	E	146	40.450	-56.764	-22.770	1.00	31.49	E	C
ATOM	18537	O	LEU	E	146	39.880	-56.336	-23.777	1.00	35.03	E	O
ATOM	18539	N	GLY	E	147	41.766	-56.865	-22.675	1.00	32.33	E	N
ATOM	18540	CA	GLY	E	147	42.617	-56.430	-23.756	1.00	29.40	E	C
ATOM	18543	C	GLY	E	147	44.084	-56.714	-23.534	1.00	30.48	E	C
ATOM	18544	O	GLY	E	147	44.463	-57.451	-22.617	1.00	27.50	E	O
ATOM	18546	N	CYS	E	148	44.899	-56.115	-24.397	1.00	32.26	E	N
ATOM	18547	CA	CYS	E	148	46.347	-56.199	-24.322	1.00	30.95	E	C
ATOM	18549	CB	CYS	E	148	46.886	-57.160	-25.384	1.00	35.56	E	C
ATOM	18552	SG	CYS	E	148	46.523	-58.919	-25.111	1.00	35.80	E	S
ATOM	18554	C	CYS	E	148	46.910	-54.813	-24.571	1.00	28.43	E	C
ATOM	18555	O	CYS	E	148	46.382	-54.074	-25.397	1.00	30.92	E	O
ATOM	18557	N	LEU	E	149	47.976	-54.468	-23.855	1.00	27.83	E	N
ATOM	18558	CA	LEU	E	149	48.656	-53.182	-24.015	1.00	26.51	E	C
ATOM	18560	CB	LEU	E	149	48.942	-52.565	-22.639	1.00	24.18	E	C
ATOM	18563	CG	LEU	E	149	49.843	-51.325	-22.563	1.00	25.00	E	C
ATOM	18565	CD1	LEU	E	149	49.278	-50.182	-23.426	1.00	21.79	E	C
ATOM	18569	CD2	LEU	E	149	50.042	-50.871	-21.125	1.00	19.16	E	C
ATOM	18573	C	LEU	E	149	49.951	-53.425	-24.775	1.00	27.61	E	C
ATOM	18574	O	LEU	E	149	50.853	-54.066	-24.257	1.00	28.51	E	O
ATOM	18576	N	VAL	E	150	50.031	-52.944	-26.011	1.00	31.28	E	N
ATOM	18577	CA	VAL	E	150	51.232	-53.126	-26.833	1.00	29.61	E	C
ATOM	18579	CB	VAL	E	150	50.866	-53.370	-28.312	1.00	27.28	E	C
ATOM	18581	CG1	VAL	E	150	52.108	-53.456	-29.188	1.00	24.24	E	C
ATOM	18585	CG2	VAL	E	150	50.042	-54.664	-28.438	1.00	26.74	E	C
ATOM	18589	C	VAL	E	150	52.087	-51.880	-26.626	1.00	30.58	E	C
ATOM	18590	O	VAL	E	150	51.768	-50.812	-27.128	1.00	32.39	E	O
ATOM	18592	N	LYS	E	151	53.162	-52.031	-25.860	1.00	32.82	E	N
ATOM	18593	CA	LYS	E	151	53.856	-50.898	-25.249	1.00	32.40	E	C
ATOM	18595	CB	LYS	E	151	53.885	-51.118	-23.734	1.00	35.97	E	C
ATOM	18598	CG	LYS	E	151	54.494	-49.990	-22.896	1.00	36.11	E	C
ATOM	18601	CD	LYS	E	151	53.509	-48.884	-22.584	1.00	36.41	E	C
ATOM	18604	CE	LYS	E	151	53.936	-48.105	-21.348	1.00	36.60	E	C
ATOM	18607	NZ	LYS	E	151	55.399	-47.866	-21.311	1.00	36.68	E	N
ATOM	18611	C	LYS	E	151	55.280	-50.724	-25.782	1.00	30.30	E	C
ATOM	18612	O	LYS	E	151	56.005	-51.694	-25.959	1.00	32.16	E	O
ATOM	18614	N	ASP	E	152	55.664	-49.475	-26.033	1.00	31.04	E	N
ATOM	18615	CA	ASP	E	152	57.053	-49.099	-26.325	1.00	32.69	E	C
ATOM	18617	CB	ASP	E	152	57.945	-49.356	-25.104	1.00	36.61	E	C
ATOM	18620	CG	ASP	E	152	57.620	-48.447	-23.931	1.00	37.42	E	C
ATOM	18621	OD1	ASP	E	152	57.283	-47.262	-24.152	1.00	37.77	E	O
ATOM	18622	OD2	ASP	E	152	57.730	-48.924	-22.782	1.00	36.80	E	O
ATOM	18623	C	ASP	E	152	57.655	-49.786	-27.551	1.00	32.28	E	C
ATOM	18624	O	ASP	E	152	58.522	-50.652	-27.425	1.00	31.31	E	O
ATOM	18626	N	TYR	E	153	57.201	-49.384	-28.736	1.00	33.88	E	N
ATOM	18627	CA	TYR	E	153	57.767	-49.893	-29.990	1.00	30.40	E	C
ATOM	18629	CB	TYR	E	153	56.849	-50.933	-30.619	1.00	26.56	E	C
ATOM	18632	CG	TYR	E	153	55.517	-50.416	-31.113	1.00	28.23	E	C
ATOM	18633	CD1	TYR	E	153	55.355	-49.984	-32.438	1.00	24.58	E	C
ATOM	18635	CE1	TYR	E	153	54.134	-49.541	-32.897	1.00	25.36	E	C
ATOM	18637	CZ	TYR	E	153	53.055	-49.515	-32.028	1.00	25.71	E	C
ATOM	18638	OH	TYR	E	153	51.846	-49.076	-32.460	1.00	26.75	E	O

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ATOM	18640	CE2	TYR	E	153	53.193	-49.940	-30.713	1.00	25.56	E	C
ATOM	18642	CD2	TYR	E	153	54.407	-50.392	-30.271	1.00	23.50	E	C
ATOM	18644	C	TYR	E	153	58.072	-48.799	-31.002	1.00	28.97	E	C
ATOM	18645	O	TYR	E	153	57.570	-47.683	-30.900	1.00	29.19	E	O
ATOM	18647	N	PHE	E	154	58.922	-49.145	-31.963	1.00	31.25	E	N
ATOM	18648	CA	PHE	E	154	59.287	-48.267	-33.059	1.00	31.43	E	C
ATOM	18650	CB	PHE	E	154	60.357	-47.266	-32.633	1.00	34.03	E	C
ATOM	18653	CG	PHE	E	154	60.538	-46.139	-33.608	1.00	34.05	E	C
ATOM	18654	CD1	PHE	E	154	59.711	-45.021	-33.556	1.00	35.89	E	C
ATOM	18656	CE1	PHE	E	154	59.865	-43.973	-34.464	1.00	35.55	E	C
ATOM	18658	CZ	PHE	E	154	60.848	-44.043	-35.444	1.00	34.82	E	C
ATOM	18660	CE2	PHE	E	154	61.675	-45.154	-35.514	1.00	34.11	E	C
ATOM	18662	CD2	PHE	E	154	61.517	-46.200	-34.597	1.00	35.48	E	C
ATOM	18664	C	PHE	E	154	59.828	-49.127	-34.194	1.00	32.38	E	C
ATOM	18665	O	PHE	E	154	60.548	-50.083	-33.940	1.00	27.95	E	O
ATOM	18667	N	PRO	E	155	59.450	-48.829	-35.448	1.00	30.79	E	N
ATOM	18668	CA	PRO	E	155	58.497	-47.835	-35.890	1.00	32.00	E	C
ATOM	18670	CB	PRO	E	155	59.002	-47.496	-37.294	1.00	31.04	E	C
ATOM	18673	CG	PRO	E	155	59.542	-48.773	-37.803	1.00	28.39	E	C
ATOM	18676	CD	PRO	E	155	60.013	-49.566	-36.591	1.00	30.49	E	C
ATOM	18679	C	PRO	E	155	57.091	-48.434	-35.946	1.00	33.16	E	C
ATOM	18680	O	PRO	E	155	56.851	-49.534	-35.440	1.00	31.05	E	O
ATOM	18681	N	GLU	E	156	56.162	-47.714	-36.554	1.00	32.87	E	N
ATOM	18682	CA	GLU	E	156	54.917	-48.330	-36.961	1.00	33.62	E	C
ATOM	18684	CB	GLU	E	156	53.915	-47.262	-37.389	1.00	35.87	E	C
ATOM	18687	CG	GLU	E	156	53.385	-46.403	-36.242	1.00	33.75	E	C
ATOM	18690	CD	GLU	E	156	52.083	-46.934	-35.648	1.00	35.68	E	C
ATOM	18691	OE1	GLU	E	156	51.972	-48.155	-35.399	1.00	33.85	E	O
ATOM	18692	OE2	GLU	E	156	51.168	-46.115	-35.412	1.00	36.28	E	O
ATOM	18693	C	GLU	E	156	55.225	-49.305	-38.110	1.00	35.08	E	C
ATOM	18694	O	GLU	E	156	56.282	-49.208	-38.755	1.00	31.84	E	O
ATOM	18696	N	PRO	E	157	54.318	-50.262	-38.369	1.00	34.40	E	N
ATOM	18697	CA	PRO	E	157	53.081	-50.578	-37.677	1.00	34.61	E	C
ATOM	18699	CB	PRO	E	157	52.146	-50.878	-38.840	1.00	35.02	E	C
ATOM	18702	CG	PRO	E	157	53.058	-51.570	-39.844	1.00	35.97	E	C
ATOM	18705	CD	PRO	E	157	54.476	-51.113	-39.563	1.00	34.44	E	C
ATOM	18708	C	PRO	E	157	53.166	-51.831	-36.795	1.00	35.21	E	C
ATOM	18709	O	PRO	E	157	54.147	-52.580	-36.854	1.00	31.58	E	O
ATOM	18710	N	VAL	E	158	52.130	-52.038	-35.986	1.00	33.76	E	N
ATOM	18711	CA	VAL	E	158	51.852	-53.341	-35.411	1.00	35.15	E	C
ATOM	18713	CB	VAL	E	158	51.933	-53.362	-33.867	1.00	34.07	E	C
ATOM	18715	CG1	VAL	E	158	53.327	-53.026	-33.410	1.00	30.82	E	C
ATOM	18719	CG2	VAL	E	158	50.890	-52.443	-33.246	1.00	33.68	E	C
ATOM	18723	C	VAL	E	158	50.463	-53.790	-35.824	1.00	35.73	E	C
ATOM	18724	O	VAL	E	158	49.580	-52.968	-36.088	1.00	39.78	E	O
ATOM	18726	N	THR	E	159	50.281	-55.102	-35.880	1.00	37.31	E	N
ATOM	18727	CA	THR	E	159	48.973	-55.694	-36.094	1.00	39.31	E	C
ATOM	18729	CB	THR	E	159	48.985	-56.643	-37.297	1.00	41.40	E	C
ATOM	18731	OG1	THR	E	159	49.816	-57.773	-37.014	1.00	42.78	E	O
ATOM	18733	CG2	THR	E	159	49.512	-55.923	-38.528	1.00	44.06	E	C
ATOM	18737	C	THR	E	159	48.564	-56.441	-34.828	1.00	39.96	E	C
ATOM	18738	O	THR	E	159	49.409	-56.994	-34.122	1.00	39.87	E	O
ATOM	18740	N	VAL	E	160	47.273	-56.411	-34.516	1.00	38.99	E	N
ATOM	18741	CA	VAL	E	160	46.759	-57.155	-33.393	1.00	38.17	E	C
ATOM	18743	CB	VAL	E	160	46.479	-56.256	-32.186	1.00	33.68	E	C
ATOM	18745	CG1	VAL	E	160	45.829	-57.064	-31.071	1.00	29.21	E	C
ATOM	18749	CG2	VAL	E	160	47.768	-55.614	-31.711	1.00	29.66	E	C
ATOM	18753	C	VAL	E	160	45.489	-57.874	-33.804	1.00	39.99	E	C
ATOM	18754	O	VAL	E	160	44.602	-57.273	-34.403	1.00	40.72	E	O
ATOM	18756	N	SER	E	161	45.430	-59.170	-33.490	1.00	41.77	E	N
ATOM	18757	CA	SER	E	161	44.238	-59.980	-33.716	1.00	40.45	E	C
ATOM	18759	CB	SER	E	161	44.451	-60.952	-34.889	1.00	42.58	E	C
ATOM	18762	OG	SER	E	161	45.245	-62.067	-34.511	1.00	44.51	E	O
ATOM	18764	C	SER	E	161	43.907	-60.732	-32.431	1.00	37.42	E	C
ATOM	18765	O	SER	E	161	44.692	-60.726	-31.490	1.00	36.94	E	O
ATOM	18767	N	TRP	E	162	42.739	-61.361	-32.398	1.00	37.33	E	N
ATOM	18768	CA	TRP	E	162	42.286	-62.087	-31.223	1.00	38.56	E	C
ATOM	18770	CB	TRP	E	162	41.120	-61.347	-30.564	1.00	35.69	E	C

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ATOM	18773	CG	TRP	E	162	41.560	-60.151	-29.778	1.00	34.58	E	C
ATOM	18774	CD1	TRP	E	162	41.674	-58.869	-30.228	1.00	34.95	E	C
ATOM	18776	NE1	TRP	E	162	42.112	-58.047	-29.215	1.00	34.98	E	N
ATOM	18778	CE2	TRP	E	162	42.296	-58.797	-28.086	1.00	35.16	E	C
ATOM	18779	CD2	TRP	E	162	41.964	-60.131	-28.405	1.00	33.31	E	C
ATOM	18780	CE3	TRP	E	162	42.066	-61.106	-27.410	1.00	33.47	E	C
ATOM	18782	CZ3	TRP	E	162	42.496	-60.732	-26.157	1.00	34.55	E	C
ATOM	18784	CH2	TRP	E	162	42.818	-59.400	-25.869	1.00	34.77	E	C
ATOM	18786	CZ2	TRP	E	162	42.728	-58.419	-26.818	1.00	35.21	E	C
ATOM	18788	C	TRP	E	162	41.877	-63.504	-31.609	1.00	39.26	E	C
ATOM	18789	O	TRP	E	162	41.060	-63.686	-32.509	1.00	40.39	E	O
ATOM	18791	N	ASN	E	163	42.450	-64.488	-30.913	1.00	41.68	E	N
ATOM	18792	CA	ASN	E	163	42.261	-65.911	-31.219	1.00	39.55	E	C
ATOM	18794	CB	ASN	E	163	40.859	-66.374	-30.800	1.00	36.73	E	C
ATOM	18797	CG	ASN	E	163	40.600	-66.182	-29.309	1.00	33.82	E	C
ATOM	18798	OD1	ASN	E	163	41.524	-65.970	-28.528	1.00	31.78	E	O
ATOM	18799	ND2	ASN	E	163	39.335	-66.257	-28.915	1.00	32.40	E	N
ATOM	18802	C	ASN	E	163	42.534	-66.200	-32.700	1.00	39.71	E	C
ATOM	18803	O	ASN	E	163	41.662	-66.665	-33.434	1.00	37.18	E	O
ATOM	18805	N	SER	E	164	43.761	-65.887	-33.118	1.00	41.23	E	N
ATOM	18806	CA	SER	E	164	44.242	-66.078	-34.490	1.00	40.93	E	C
ATOM	18808	CB	SER	E	164	44.702	-67.530	-34.692	1.00	39.75	E	C
ATOM	18811	OG	SER	E	164	45.615	-67.927	-33.681	1.00	38.55	E	O
ATOM	18813	C	SER	E	164	43.222	-65.698	-35.564	1.00	41.73	E	C
ATOM	18814	O	SER	E	164	43.120	-66.372	-36.585	1.00	46.96	E	O
ATOM	18816	N	GLY	E	165	42.470	-64.626	-35.330	1.00	42.46	E	N
ATOM	18817	CA	GLY	E	165	41.473	-64.143	-36.290	1.00	40.94	E	C
ATOM	18820	C	GLY	E	165	40.040	-64.595	-36.036	1.00	39.15	E	C
ATOM	18821	O	GLY	E	165	39.118	-64.119	-36.699	1.00	33.06	E	O
ATOM	18823	N	ALA	E	166	39.849	-65.504	-35.082	1.00	40.21	E	N
ATOM	18824	CA	ALA	E	166	38.524	-66.048	-34.781	1.00	41.74	E	C
ATOM	18826	CB	ALA	E	166	38.637	-67.263	-33.855	1.00	43.12	E	C
ATOM	18830	C	ALA	E	166	37.617	-64.990	-34.163	1.00	43.83	E	C
ATOM	18831	O	ALA	E	166	36.494	-64.794	-34.620	1.00	46.56	E	O
ATOM	18833	N	LEU	E	167	38.114	-64.306	-33.134	1.00	43.98	E	N
ATOM	18834	CA	LEU	E	167	37.348	-63.264	-32.439	1.00	42.38	E	C
ATOM	18836	CB	LEU	E	167	37.821	-63.154	-30.985	1.00	40.80	E	C
ATOM	18839	CG	LEU	E	167	37.052	-62.262	-30.010	1.00	39.56	E	C
ATOM	18841	CD1	LEU	E	167	35.575	-62.612	-29.982	1.00	38.05	E	C
ATOM	18845	CD2	LEU	E	167	37.655	-62.385	-28.620	1.00	37.96	E	C
ATOM	18849	C	LEU	E	167	37.484	-61.915	-33.161	1.00	42.08	E	C
ATOM	18850	O	LEU	E	167	38.579	-61.392	-33.322	1.00	43.31	E	O
ATOM	18852	N	THR	E	168	36.370	-61.365	-33.625	1.00	41.17	E	N
ATOM	18853	CA	THR	E	168	36.398	-60.067	-34.291	1.00	41.92	E	C
ATOM	18855	CB	THR	E	168	36.339	-60.228	-35.823	1.00	44.57	E	C
ATOM	18857	OG1	THR	E	168	35.184	-60.989	-36.185	1.00	48.75	E	O
ATOM	18859	CG2	THR	E	168	37.570	-60.952	-36.326	1.00	43.31	E	C
ATOM	18863	C	THR	E	168	35.300	-59.126	-33.787	1.00	39.87	E	C
ATOM	18864	O	THR	E	168	35.492	-57.908	-33.767	1.00	41.47	E	O
ATOM	18866	N	SER	E	169	34.173	-59.692	-33.363	1.00	40.66	E	N
ATOM	18867	CA	SER	E	169	33.077	-58.935	-32.754	1.00	41.25	E	C
ATOM	18869	CB	SER	E	169	31.859	-59.849	-32.544	1.00	44.19	E	C
ATOM	18872	OG	SER	E	169	30.863	-59.217	-31.746	1.00	45.75	E	O
ATOM	18874	C	SER	E	169	33.458	-58.292	-31.413	1.00	41.52	E	C
ATOM	18875	O	SER	E	169	33.912	-58.976	-30.487	1.00	43.81	E	O
ATOM	18877	N	GLY	E	170	33.246	-56.980	-31.306	1.00	38.63	E	N
ATOM	18878	CA	GLY	E	170	33.504	-56.245	-30.061	1.00	34.79	E	C
ATOM	18881	C	GLY	E	170	34.944	-55.785	-29.898	1.00	32.86	E	C
ATOM	18882	O	GLY	E	170	35.291	-55.180	-28.878	1.00	35.36	E	O
ATOM	18884	N	VAL	E	171	35.781	-56.058	-30.900	1.00	29.09	E	N
ATOM	18885	CA	VAL	E	171	37.205	-55.723	-30.839	1.00	31.14	E	C
ATOM	18887	CB	VAL	E	171	38.048	-56.678	-31.723	1.00	30.94	E	C
ATOM	18889	CG1	VAL	E	171	39.447	-56.119	-31.950	1.00	31.05	E	C
ATOM	18893	CG2	VAL	E	171	38.127	-58.065	-31.088	1.00	23.30	E	C
ATOM	18897	C	VAL	E	171	37.476	-54.273	-31.254	1.00	29.63	E	C
ATOM	18898	O	VAL	E	171	37.095	-53.845	-32.336	1.00	32.72	E	O
ATOM	18900	N	HIS	E	172	38.154	-53.530	-30.386	1.00	30.49	E	N
ATOM	18901	CA	HIS	E	172	38.574	-52.171	-30.697	1.00	28.98	E	C

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ATOM	18903	CB	HIS	E	172	37.820	-51.152	-29.826	1.00	29.81	E	C
ATOM	18906	CG	HIS	E	172	36.337	-51.132	-30.056	1.00	27.94	E	C
ATOM	18907	ND1	HIS	E	172	35.774	-50.675	-31.227	1.00	26.24	E	N
ATOM	18909	CE1	HIS	E	172	34.457	-50.773	-31.148	1.00	29.34	E	C
ATOM	18911	NE2	HIS	E	172	34.142	-51.278	-29.969	1.00	22.78	E	N
ATOM	18913	CD2	HIS	E	172	35.301	-51.503	-29.262	1.00	28.15	E	C
ATOM	18915	C	HIS	E	172	40.075	-52.069	-30.484	1.00	27.28	E	C
ATOM	18916	O	HIS	E	172	40.550	-52.072	-29.350	1.00	30.94	E	O
ATOM	18918	N	THR	E	173	40.819	-52.047	-31.580	1.00	24.01	E	N
ATOM	18919	CA	THR	E	173	42.260	-51.858	-31.537	1.00	28.19	E	C
ATOM	18921	CB	THR	E	173	43.019	-52.671	-32.620	1.00	25.38	E	C
ATOM	18923	OG1	THR	E	173	42.863	-54.076	-32.368	1.00	24.79	E	O
ATOM	18925	CG2	THR	E	173	44.529	-52.329	-32.618	1.00	21.83	E	C
ATOM	18929	C	THR	E	173	42.481	-50.386	-31.746	1.00	28.81	E	C
ATOM	18930	O	THR	E	173	42.109	-49.843	-32.785	1.00	26.67	E	O
ATOM	18932	N	PHE	E	174	43.070	-49.735	-30.746	1.00	30.91	E	N
ATOM	18933	CA	PHE	E	174	43.223	-48.293	-30.791	1.00	30.94	E	C
ATOM	18935	CB	PHE	E	174	43.320	-47.719	-29.386	1.00	26.21	E	C
ATOM	18938	CG	PHE	E	174	42.031	-47.807	-28.649	1.00	27.92	E	C
ATOM	18939	CD1	PHE	E	174	41.067	-46.842	-28.817	1.00	27.82	E	C
ATOM	18941	CE1	PHE	E	174	39.860	-46.938	-28.175	1.00	27.43	E	C
ATOM	18943	CZ	PHE	E	174	39.593	-48.002	-27.363	1.00	26.64	E	C
ATOM	18945	CE2	PHE	E	174	40.537	-48.982	-27.200	1.00	28.38	E	C
ATOM	18947	CD2	PHE	E	174	41.743	-48.894	-27.854	1.00	28.25	E	C
ATOM	18949	C	PHE	E	174	44.397	-47.871	-31.648	1.00	31.48	E	C
ATOM	18950	O	PHE	E	174	45.348	-48.637	-31.824	1.00	29.64	E	O
ATOM	18952	N	PRO	E	175	44.305	-46.664	-32.232	1.00	33.05	E	N
ATOM	18953	CA	PRO	E	175	45.422	-46.088	-32.960	1.00	33.41	E	C
ATOM	18955	CB	PRO	E	175	44.865	-44.758	-33.479	1.00	33.29	E	C
ATOM	18958	CG	PRO	E	175	43.404	-44.877	-33.397	1.00	33.19	E	C
ATOM	18961	CD	PRO	E	175	43.112	-45.799	-32.279	1.00	32.95	E	C
ATOM	18964	C	PRO	E	175	46.616	-45.835	-32.051	1.00	34.20	E	C
ATOM	18965	O	PRO	E	175	46.442	-45.366	-30.929	1.00	29.88	E	O
ATOM	18966	N	ALA	E	176	47.817	-46.138	-32.539	1.00	37.51	E	N
ATOM	18967	CA	ALA	E	176	49.029	-45.943	-31.758	1.00	35.53	E	C
ATOM	18969	CB	ALA	E	176	50.240	-46.461	-32.516	1.00	33.45	E	C
ATOM	18973	C	ALA	E	176	49.195	-44.470	-31.417	1.00	38.39	E	C
ATOM	18974	O	ALA	E	176	48.894	-43.609	-32.237	1.00	45.13	E	O
ATOM	18976	N	VAL	E	177	49.625	-44.196	-30.188	1.00	39.30	E	N
ATOM	18977	CA	VAL	E	177	50.039	-42.858	-29.773	1.00	38.84	E	C
ATOM	18979	CB	VAL	E	177	49.408	-42.428	-28.419	1.00	40.28	E	C
ATOM	18981	CG1	VAL	E	177	47.890	-42.494	-28.491	1.00	40.32	E	C
ATOM	18985	CG2	VAL	E	177	49.958	-43.276	-27.242	1.00	44.64	E	C
ATOM	18989	C	VAL	E	177	51.556	-42.835	-29.651	1.00	36.47	E	C
ATOM	18990	O	VAL	E	177	52.173	-43.847	-29.303	1.00	33.37	E	O
ATOM	18992	N	LEU	E	178	52.146	-41.680	-29.955	1.00	37.78	E	N
ATOM	18993	CA	LEU	E	178	53.579	-41.465	-29.802	1.00	38.62	E	C
ATOM	18995	CB	LEU	E	178	54.118	-40.529	-30.879	1.00	37.67	E	C
ATOM	18998	CG	LEU	E	178	55.623	-40.251	-30.871	1.00	38.72	E	C
ATOM	19000	CD1	LEU	E	178	56.415	-41.538	-30.998	1.00	37.20	E	C
ATOM	19004	CD2	LEU	E	178	55.968	-39.273	-32.003	1.00	40.29	E	C
ATOM	19008	C	LEU	E	178	53.824	-40.872	-28.427	1.00	40.63	E	C
ATOM	19009	O	LEU	E	178	53.267	-39.830	-28.071	1.00	41.50	E	O
ATOM	19011	N	GLN	E	179	54.665	-41.549	-27.660	1.00	41.56	E	N
ATOM	19012	CA	GLN	E	179	54.929	-41.180	-26.285	1.00	41.85	E	C
ATOM	19014	CB	GLN	E	179	55.263	-42.432	-25.474	1.00	41.75	E	C
ATOM	19017	CG	GLN	E	179	54.176	-43.496	-25.518	1.00	39.42	E	C
ATOM	19020	CD	GLN	E	179	54.600	-44.787	-24.868	1.00	40.97	E	C
ATOM	19021	OE1	GLN	E	179	55.514	-45.463	-25.338	1.00	40.18	E	O
ATOM	19022	NE2	GLN	E	179	53.930	-45.142	-23.779	1.00	43.22	E	N
ATOM	19025	C	GLN	E	179	56.077	-40.186	-26.230	1.00	43.47	E	C
ATOM	19026	O	GLN	E	179	56.825	-40.028	-27.203	1.00	42.57	E	O
ATOM	19028	N	SER	E	180	56.205	-39.522	-25.082	1.00	44.23	E	N
ATOM	19029	CA	SER	E	180	57.298	-38.583	-24.828	1.00	43.65	E	C
ATOM	19031	CB	SER	E	180	57.247	-38.108	-23.374	1.00	46.02	E	C
ATOM	19034	OG	SER	E	180	57.536	-39.177	-22.479	1.00	47.23	E	O
ATOM	19036	C	SER	E	180	58.660	-39.221	-25.116	1.00	45.02	E	C
ATOM	19037	O	SER	E	180	59.596	-38.542	-25.545	1.00	47.95	E	O

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ATOM	19039	N	SER	E	181	58.755	-40.531	-24.883	1.00	42.92	E	N
ATOM	19040	CA	SER	E	181	59.989	-41.285	-25.095	1.00	40.43	E	C
ATOM	19042	CB	SER	E	181	59.874	-42.664	-24.434	1.00	39.42	E	C
ATOM	19045	OG	SER	E	181	58.759	-43.388	-24.930	1.00	35.25	E	O
ATOM	19047	C	SER	E	181	60.372	-41.462	-26.565	1.00	40.16	E	C
ATOM	19048	O	SER	E	181	61.508	-41.841	-26.862	1.00	40.98	E	O
ATOM	19050	N	GLY	E	182	59.433	-41.205	-27.475	1.00	38.39	E	N
ATOM	19051	CA	GLY	E	182	59.661	-41.406	-28.908	1.00	37.70	E	C
ATOM	19054	C	GLY	E	182	59.296	-42.804	-29.382	1.00	38.29	E	C
ATOM	19055	O	GLY	E	182	59.603	-43.178	-30.515	1.00	38.75	E	O
ATOM	19057	N	LEU	E	183	58.647	-43.574	-28.507	1.00	37.09	E	N
ATOM	19058	CA	LEU	E	183	58.152	-44.907	-28.828	1.00	34.19	E	C
ATOM	19060	CB	LEU	E	183	58.618	-45.923	-27.797	1.00	33.25	E	C
ATOM	19063	CG	LEU	E	183	60.050	-46.441	-27.884	1.00	35.69	E	C
ATOM	19065	CD1	LEU	E	183	61.073	-45.320	-27.918	1.00	39.92	E	C
ATOM	19069	CD2	LEU	E	183	60.296	-47.326	-26.692	1.00	33.46	E	C
ATOM	19073	C	LEU	E	183	56.637	-44.911	-28.842	1.00	33.58	E	C
ATOM	19074	O	LEU	E	183	55.994	-44.156	-28.112	1.00	32.34	E	O
ATOM	19076	N	TYR	E	184	56.065	-45.791	-29.651	1.00	31.66	E	N
ATOM	19077	CA	TYR	E	184	54.617	-45.900	-29.736	1.00	32.97	E	C
ATOM	19079	CB	TYR	E	184	54.196	-46.408	-31.117	1.00	36.59	E	C
ATOM	19082	CG	TYR	E	184	54.494	-45.426	-32.212	1.00	37.52	E	C
ATOM	19083	CD1	TYR	E	184	53.611	-44.388	-32.494	1.00	36.93	E	C
ATOM	19085	CE1	TYR	E	184	53.885	-43.471	-33.489	1.00	37.48	E	C
ATOM	19087	CZ	TYR	E	184	55.057	-43.588	-34.216	1.00	37.66	E	C
ATOM	19088	OH	TYR	E	184	55.326	-42.684	-35.212	1.00	39.64	E	O
ATOM	19090	CE2	TYR	E	184	55.949	-44.603	-33.955	1.00	36.51	E	C
ATOM	19092	CD2	TYR	E	184	55.669	-45.514	-32.952	1.00	38.00	E	C
ATOM	19094	C	TYR	E	184	54.067	-46.812	-28.657	1.00	31.41	E	C
ATOM	19095	O	TYR	E	184	54.793	-47.596	-28.044	1.00	29.10	E	O
ATOM	19097	N	SER	E	185	52.768	-46.691	-28.424	1.00	32.98	E	N
ATOM	19098	CA	SER	E	185	52.059	-47.610	-27.549	1.00	31.99	E	C
ATOM	19100	CB	SER	E	185	52.141	-47.134	-26.094	1.00	33.98	E	C
ATOM	19103	OG	SER	E	185	51.361	-47.944	-25.226	1.00	34.21	E	O
ATOM	19105	C	SER	E	185	50.624	-47.676	-28.023	1.00	29.77	E	C
ATOM	19106	O	SER	E	185	50.081	-46.674	-28.462	1.00	29.91	E	O
ATOM	19108	N	LEU	E	186	50.021	-48.858	-27.979	1.00	30.81	E	N
ATOM	19109	CA	LEU	E	186	48.592	-48.984	-28.270	1.00	29.55	E	C
ATOM	19111	CB	LEU	E	186	48.339	-49.200	-29.772	1.00	29.14	E	C
ATOM	19114	CG	LEU	E	186	48.576	-50.538	-30.469	1.00	27.70	E	C
ATOM	19116	CD1	LEU	E	186	47.589	-51.627	-30.041	1.00	27.64	E	C
ATOM	19120	CD2	LEU	E	186	48.476	-50.304	-31.957	1.00	23.42	E	C
ATOM	19124	C	LEU	E	186	47.918	-50.068	-27.454	1.00	29.18	E	C
ATOM	19125	O	LEU	E	186	48.567	-50.931	-26.884	1.00	29.53	E	O
ATOM	19127	N	SER	E	187	46.596	-49.992	-27.412	1.00	32.17	E	N
ATOM	19128	CA	SER	E	187	45.780	-50.958	-26.715	1.00	29.61	E	C
ATOM	19130	CB	SER	E	187	44.979	-50.263	-25.621	1.00	33.26	E	C
ATOM	19133	OG	SER	E	187	44.800	-51.125	-24.515	1.00	40.95	E	O
ATOM	19135	C	SER	E	187	44.832	-51.590	-27.710	1.00	28.97	E	C
ATOM	19136	O	SER	E	187	44.421	-50.962	-28.676	1.00	27.57	E	O
ATOM	19138	N	SER	E	188	44.505	-52.850	-27.479	1.00	32.42	E	N
ATOM	19139	CA	SER	E	188	43.460	-53.525	-28.224	1.00	27.47	E	C
ATOM	19141	CB	SER	E	188	44.028	-54.604	-29.141	1.00	27.77	E	C
ATOM	19144	OG	SER	E	188	42.996	-55.174	-29.932	1.00	27.63	E	O
ATOM	19146	C	SER	E	188	42.543	-54.135	-27.198	1.00	27.43	E	C
ATOM	19147	O	SER	E	188	42.976	-54.949	-26.384	1.00	31.91	E	O
ATOM	19149	N	VAL	E	189	41.288	-53.708	-27.210	1.00	27.76	E	N
ATOM	19150	CA	VAL	E	189	40.291	-54.226	-26.288	1.00	27.31	E	C
ATOM	19152	CB	VAL	E	189	39.566	-53.096	-25.513	1.00	25.78	E	C
ATOM	19154	CG1	VAL	E	189	40.550	-52.342	-24.593	1.00	24.18	E	C
ATOM	19158	CG2	VAL	E	189	38.871	-52.148	-26.462	1.00	20.58	E	C
ATOM	19162	C	VAL	E	189	39.267	-55.059	-27.046	1.00	29.41	E	C
ATOM	19163	O	VAL	E	189	39.140	-54.961	-28.275	1.00	30.71	E	O
ATOM	19165	N	VAL	E	190	38.582	-55.918	-26.301	1.00	28.75	E	N
ATOM	19166	CA	VAL	E	190	37.430	-56.640	-26.811	1.00	28.68	E	C
ATOM	19168	CB	VAL	E	190	37.812	-58.010	-27.455	1.00	25.83	E	C
ATOM	19170	CG1	VAL	E	190	38.337	-58.999	-26.405	1.00	23.01	E	C
ATOM	19174	CG2	VAL	E	190	36.618	-58.598	-28.187	1.00	25.43	E	C

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ATOM	19178	C	VAL	E	190	36.446	-56.826	-25.665	1.00	28.03	E	C
ATOM	19179	O	VAL	E	190	36.850	-57.039	-24.518	1.00	24.88	E	O
ATOM	19181	N	THR	E	191	35.157	-56.691	-25.969	1.00	33.99	E	N
ATOM	19182	CA	THR	E	191	34.109	-57.015	-25.001	1.00	32.71	E	C
ATOM	19184	CB	THR	E	191	33.000	-55.947	-24.932	1.00	34.46	E	C
ATOM	19186	OG1	THR	E	191	32.706	-55.470	-26.252	1.00	35.11	E	O
ATOM	19188	CG2	THR	E	191	33.432	-54.786	-24.037	1.00	31.69	E	C
ATOM	19192	C	THR	E	191	33.499	-58.362	-25.352	1.00	33.75	E	C
ATOM	19193	O	THR	E	191	33.254	-58.677	-26.525	1.00	34.60	E	O
ATOM	19195	N	VAL	E	192	33.281	-59.150	-24.310	1.00	35.15	E	N
ATOM	19196	CA	VAL	E	192	32.743	-60.490	-24.414	1.00	35.77	E	C
ATOM	19198	CB	VAL	E	192	33.851	-61.557	-24.231	1.00	31.08	E	C
ATOM	19200	CG1	VAL	E	192	34.944	-61.406	-25.293	1.00	22.78	E	C
ATOM	19204	CG2	VAL	E	192	34.458	-61.474	-22.837	1.00	26.54	E	C
ATOM	19208	C	VAL	E	192	31.732	-60.618	-23.286	1.00	38.94	E	C
ATOM	19209	O	VAL	E	192	31.725	-59.786	-22.380	1.00	43.53	E	O
ATOM	19211	N	PRO	E	193	30.861	-61.639	-23.335	1.00	40.85	E	N
ATOM	19212	CA	PRO	E	193	30.013	-61.909	-22.163	1.00	39.64	E	C
ATOM	19214	CB	PRO	E	193	29.158	-63.100	-22.610	1.00	39.94	E	C
ATOM	19217	CG	PRO	E	193	29.204	-63.064	-24.116	1.00	41.62	E	C
ATOM	19220	CD	PRO	E	193	30.570	-62.556	-24.452	1.00	40.08	E	C
ATOM	19223	C	PRO	E	193	30.813	-62.263	-20.906	1.00	40.97	E	C
ATOM	19224	O	PRO	E	193	31.916	-62.803	-21.001	1.00	41.96	E	O
ATOM	19225	N	SER	E	194	30.255	-61.948	-19.737	1.00	42.70	E	N
ATOM	19226	CA	SER	E	194	30.847	-62.342	-18.454	1.00	44.61	E	C
ATOM	19228	CB	SER	E	194	30.069	-61.712	-17.290	1.00	45.69	E	C
ATOM	19231	OG	SER	E	194	30.261	-60.310	-17.231	1.00	45.41	E	O
ATOM	19233	C	SER	E	194	30.861	-63.868	-18.273	1.00	45.36	E	C
ATOM	19234	O	SER	E	194	31.709	-64.410	-17.568	1.00	38.09	E	O
ATOM	19236	N	SER	E	195	29.897	-64.537	-18.905	1.00	49.26	E	N
ATOM	19237	CA	SER	E	195	29.755	-65.989	-18.855	1.00	49.05	E	C
ATOM	19239	CB	SER	E	195	28.452	-66.392	-19.548	1.00	50.36	E	C
ATOM	19242	OG	SER	E	195	27.364	-65.643	-19.039	1.00	50.11	E	O
ATOM	19244	C	SER	E	195	30.921	-66.705	-19.530	1.00	49.31	E	C
ATOM	19245	O	SER	E	195	31.355	-67.767	-19.076	1.00	46.72	E	O
ATOM	19247	N	SER	E	196	31.424	-66.109	-20.610	1.00	48.32	E	N
ATOM	19248	CA	SER	E	196	32.483	-66.715	-21.411	1.00	49.47	E	C
ATOM	19250	CB	SER	E	196	32.607	-65.991	-22.755	1.00	50.33	E	C
ATOM	19253	OG	SER	E	196	33.441	-64.848	-22.631	1.00	48.99	E	O
ATOM	19255	C	SER	E	196	33.857	-66.708	-20.741	1.00	50.79	E	C
ATOM	19256	O	SER	E	196	34.753	-67.423	-21.187	1.00	53.27	E	O
ATOM	19258	N	LEU	E	197	34.036	-65.900	-19.697	1.00	50.67	E	N
ATOM	19259	CA	LEU	E	197	35.374	-65.646	-19.148	1.00	50.78	E	C
ATOM	19261	CB	LEU	E	197	35.324	-64.629	-17.991	1.00	47.28	E	C
ATOM	19264	CG	LEU	E	197	35.356	-63.150	-18.403	1.00	43.24	E	C
ATOM	19266	CD1	LEU	E	197	35.177	-62.249	-17.195	1.00	41.58	E	C
ATOM	19270	CD2	LEU	E	197	36.652	-62.812	-19.126	1.00	41.70	E	C
ATOM	19274	C	LEU	E	197	36.096	-66.921	-18.715	1.00	53.03	E	C
ATOM	19275	O	LEU	E	197	37.155	-67.250	-19.261	1.00	54.58	E	O
ATOM	19277	N	GLY	E	198	35.518	-67.629	-17.747	1.00	52.83	E	N
ATOM	19278	CA	GLY	E	198	36.096	-68.872	-17.234	1.00	54.16	E	C
ATOM	19281	C	GLY	E	198	36.186	-69.973	-18.278	1.00	55.07	E	C
ATOM	19282	O	GLY	E	198	37.159	-70.728	-18.309	1.00	55.44	E	O
ATOM	19284	N	THR	E	199	35.168	-70.055	-19.132	1.00	54.51	E	N
ATOM	19285	CA	THR	E	199	35.113	-71.040	-20.213	1.00	53.83	E	C
ATOM	19287	CB	THR	E	199	33.701	-71.070	-20.852	1.00	55.74	E	C
ATOM	19289	OG1	THR	E	199	32.809	-71.778	-19.988	1.00	57.29	E	O
ATOM	19291	CG2	THR	E	199	33.713	-71.734	-22.233	1.00	55.26	E	C
ATOM	19295	C	THR	E	199	36.144	-70.776	-21.314	1.00	54.93	E	C
ATOM	19296	O	THR	E	199	37.101	-71.539	-21.476	1.00	55.55	E	O
ATOM	19298	N	GLN	E	200	35.941	-69.686	-22.054	1.00	53.15	E	N
ATOM	19299	CA	GLN	E	200	36.660	-69.422	-23.297	1.00	49.21	E	C
ATOM	19301	CB	GLN	E	200	35.836	-68.464	-24.159	1.00	52.98	E	C
ATOM	19304	CG	GLN	E	200	36.422	-68.142	-25.541	1.00	55.83	E	C
ATOM	19307	CD	GLN	E	200	36.541	-69.357	-26.445	1.00	57.96	E	C
ATOM	19308	OE1	GLN	E	200	35.848	-70.362	-26.258	1.00	60.60	E	O
ATOM	19309	NE2	GLN	E	200	37.421	-69.267	-27.438	1.00	57.40	E	N
ATOM	19312	C	GLN	E	200	38.057	-68.853	-23.065	1.00	46.45	E	C

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ATOM	19313	O	GLN	E	200	38.295	-68.135	-22.095	1.00	47.37	E	O
ATOM	19315	N	THR	E	201	38.974	-69.181	-23.972	1.00	43.88	E	N
ATOM	19316	CA	THR	E	201	40.351	-68.695	-23.909	1.00	42.86	E	C
ATOM	19318	CB	THR	E	201	41.341	-69.806	-24.303	1.00	42.43	E	C
ATOM	19320	OG1	THR	E	201	41.207	-70.899	-23.386	1.00	43.67	E	O
ATOM	19322	CG2	THR	E	201	42.790	-69.309	-24.275	1.00	41.67	E	C
ATOM	19326	C	THR	E	201	40.526	-67.480	-24.821	1.00	40.23	E	C
ATOM	19327	O	THR	E	201	40.157	-67.523	-26.002	1.00	41.83	E	O
ATOM	19329	N	TYR	E	202	41.072	-66.398	-24.263	1.00	36.97	E	N
ATOM	19330	CA	TYR	E	202	41.293	-65.157	-25.015	1.00	36.22	E	C
ATOM	19332	CB	TYR	E	202	40.550	-63.990	-24.370	1.00	33.84	E	C
ATOM	19335	CG	TYR	E	202	39.047	-64.168	-24.408	1.00	33.82	E	C
ATOM	19336	CD1	TYR	E	202	38.355	-64.103	-25.611	1.00	32.06	E	C
ATOM	19338	CE1	TYR	E	202	36.984	-64.279	-25.657	1.00	33.56	E	C
ATOM	19340	CZ	TYR	E	202	36.289	-64.525	-24.484	1.00	32.96	E	C
ATOM	19341	OH	TYR	E	202	34.929	-64.695	-24.536	1.00	35.16	E	O
ATOM	19343	CE2	TYR	E	202	36.947	-64.588	-23.281	1.00	31.54	E	C
ATOM	19345	CD2	TYR	E	202	38.321	-64.414	-23.245	1.00	31.54	E	C
ATOM	19347	C	TYR	E	202	42.774	-64.836	-25.140	1.00	35.17	E	C
ATOM	19348	O	TYR	E	202	43.451	-64.592	-24.142	1.00	35.22	E	O
ATOM	19350	N	ILE	E	203	43.260	-64.851	-26.382	1.00	36.40	E	N
ATOM	19351	CA	ILE	E	203	44.669	-64.615	-26.703	1.00	35.88	E	C
ATOM	19353	CB	ILE	E	203	45.334	-65.881	-27.308	1.00	37.23	E	C
ATOM	19355	CG1	ILE	E	203	45.228	-67.080	-26.352	1.00	38.30	E	C
ATOM	19358	CD1	ILE	E	203	45.356	-68.423	-27.051	1.00	36.62	E	C
ATOM	19362	CG2	ILE	E	203	46.797	-65.604	-27.653	1.00	37.50	E	C
ATOM	19366	C	ILE	E	203	44.756	-63.508	-27.747	1.00	34.13	E	C
ATOM	19367	O	ILE	E	203	44.060	-63.564	-28.765	1.00	31.41	E	O
ATOM	19369	N	CYS	E	204	45.596	-62.507	-27.502	1.00	35.38	E	N
ATOM	19370	CA	CYS	E	204	45.828	-61.453	-28.492	1.00	36.41	E	C
ATOM	19372	CB	CYS	E	204	45.907	-60.067	-27.841	1.00	37.36	E	C
ATOM	19375	SG	CYS	E	204	47.309	-59.800	-26.758	1.00	41.10	E	S
ATOM	19377	C	CYS	E	204	47.100	-61.768	-29.258	1.00	35.87	E	C
ATOM	19378	O	CYS	E	204	48.111	-62.127	-28.663	1.00	37.21	E	O
ATOM	19380	N	ASN	E	205	47.036	-61.636	-30.578	1.00	37.15	E	N
ATOM	19381	CA	ASN	E	205	48.155	-61.958	-31.456	1.00	36.31	E	C
ATOM	19383	CB	ASN	E	205	47.671	-62.835	-32.612	1.00	35.45	E	C
ATOM	19386	CG	ASN	E	205	46.679	-63.900	-32.158	1.00	36.58	E	C
ATOM	19387	OD1	ASN	E	205	45.498	-63.853	-32.506	1.00	37.24	E	O
ATOM	19388	ND2	ASN	E	205	47.151	-64.844	-31.349	1.00	36.66	E	N
ATOM	19391	C	ASN	E	205	48.794	-60.674	-31.979	1.00	35.69	E	C
ATOM	19392	O	ASN	E	205	48.181	-59.954	-32.768	1.00	41.33	E	O
ATOM	19394	N	VAL	E	206	50.019	-60.396	-31.529	1.00	32.20	E	N
ATOM	19395	CA	VAL	E	206	50.698	-59.132	-31.801	1.00	32.81	E	C
ATOM	19397	CB	VAL	E	206	51.182	-58.502	-30.482	1.00	29.12	E	C
ATOM	19399	CG1	VAL	E	206	51.866	-57.151	-30.729	1.00	25.18	E	C
ATOM	19403	CG2	VAL	E	206	50.008	-58.344	-29.518	1.00	30.09	E	C
ATOM	19407	C	VAL	E	206	51.889	-59.324	-32.743	1.00	34.70	E	C
ATOM	19408	O	VAL	E	206	52.811	-60.079	-32.432	1.00	32.02	E	O
ATOM	19410	N	ASN	E	207	51.870	-58.648	-33.892	1.00	39.36	E	N
ATOM	19411	CA	ASN	E	207	52.994	-58.721	-34.828	1.00	38.54	E	C
ATOM	19413	CB	ASN	E	207	52.571	-59.349	-36.168	1.00	43.66	E	C
ATOM	19416	CG	ASN	E	207	53.758	-59.985	-36.936	1.00	47.20	E	C
ATOM	19417	OD1	ASN	E	207	54.932	-59.672	-36.686	1.00	52.32	E	O
ATOM	19418	ND2	ASN	E	207	53.443	-60.885	-37.871	1.00	46.99	E	N
ATOM	19421	C	ASN	E	207	53.612	-57.351	-35.065	1.00	36.96	E	C
ATOM	19422	O	ASN	E	207	52.915	-56.406	-35.405	1.00	38.93	E	O
ATOM	19424	N	HIS	E	208	54.926	-57.264	-34.877	1.00	32.62	E	N
ATOM	19425	CA	HIS	E	208	55.706	-56.073	-35.192	1.00	34.24	E	C
ATOM	19427	CB	HIS	E	208	56.221	-55.437	-33.893	1.00	28.36	E	C
ATOM	19430	CG	HIS	E	208	57.118	-54.253	-34.089	1.00	25.55	E	C
ATOM	19431	ND1	HIS	E	208	56.695	-53.076	-34.669	1.00	28.06	E	N
ATOM	19433	CE1	HIS	E	208	57.696	-52.215	-34.691	1.00	26.42	E	C
ATOM	19435	NE2	HIS	E	208	58.745	-52.781	-34.125	1.00	23.38	E	N
ATOM	19437	CD2	HIS	E	208	58.404	-54.048	-33.730	1.00	24.47	E	C
ATOM	19439	C	HIS	E	208	56.843	-56.534	-36.100	1.00	37.20	E	C
ATOM	19440	O	HIS	E	208	57.859	-57.026	-35.630	1.00	37.65	E	O
ATOM	19442	N	LYS	E	209	56.651	-56.406	-37.411	1.00	40.81	E	N

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ATOM	19443	CA	LYS	E	209	57.598	-56.970	-38.379	1.00	41.45	E	C
ATOM	19445	CB	LYS	E	209	57.055	-56.892	-39.811	1.00	42.60	E	C
ATOM	19448	CG	LYS	E	209	55.892	-57.819	-40.074	1.00	42.27	E	C
ATOM	19451	CD	LYS	E	209	55.529	-57.850	-41.554	1.00	44.38	E	C
ATOM	19454	CE	LYS	E	209	54.060	-58.239	-41.764	1.00	45.63	E	C
ATOM	19457	NZ	LYS	E	209	53.687	-58.378	-43.199	1.00	45.39	E	N
ATOM	19461	C	LYS	E	209	58.986	-56.343	-38.301	1.00	42.10	E	C
ATOM	19462	O	LYS	E	209	59.980	-57.067	-38.316	1.00	43.30	E	O
ATOM	19464	N	PRO	E	210	59.073	-55.005	-38.182	1.00	42.48	E	N
ATOM	19465	CA	PRO	E	210	60.403	-54.393	-38.119	1.00	42.34	E	C
ATOM	19467	CB	PRO	E	210	60.099	-52.940	-37.754	1.00	42.17	E	C
ATOM	19470	CG	PRO	E	210	58.757	-52.691	-38.325	1.00	42.97	E	C
ATOM	19473	CD	PRO	E	210	58.008	-53.987	-38.123	1.00	43.57	E	C
ATOM	19476	C	PRO	E	210	61.368	-55.020	-37.097	1.00	44.50	E	C
ATOM	19477	O	PRO	E	210	62.582	-54.879	-37.249	1.00	47.03	E	O
ATOM	19478	N	SER	E	211	60.843	-55.705	-36.082	1.00	44.02	E	N
ATOM	19479	CA	SER	E	211	61.685	-56.363	-35.086	1.00	43.72	E	C
ATOM	19481	CB	SER	E	211	61.436	-55.738	-33.717	1.00	41.80	E	C
ATOM	19484	OG	SER	E	211	60.318	-56.334	-33.084	1.00	40.66	E	O
ATOM	19486	C	SER	E	211	61.449	-57.875	-35.015	1.00	44.74	E	C
ATOM	19487	O	SER	E	211	61.874	-58.526	-34.058	1.00	47.19	E	O
ATOM	19489	N	ASN	E	212	60.784	-58.437	-36.022	1.00	46.57	E	N
ATOM	19490	CA	ASN	E	212	60.427	-59.862	-36.022	1.00	48.28	E	C
ATOM	19492	CB	ASN	E	212	61.652	-60.740	-36.313	1.00	51.99	E	C
ATOM	19495	CG	ASN	E	212	62.389	-60.341	-37.578	1.00	54.97	E	C
ATOM	19496	OD1	ASN	E	212	61.913	-59.526	-38.368	1.00	56.53	E	O
ATOM	19497	ND2	ASN	E	212	63.568	-60.924	-37.773	1.00	56.67	E	N
ATOM	19500	C	ASN	E	212	59.805	-60.319	-34.698	1.00	49.83	E	C
ATOM	19501	O	ASN	E	212	60.056	-61.441	-34.247	1.00	49.62	E	O
ATOM	19503	N	THR	E	213	59.014	-59.449	-34.070	1.00	49.07	E	N
ATOM	19504	CA	THR	E	213	58.333	-59.785	-32.826	1.00	46.21	E	C
ATOM	19506	CB	THR	E	213	58.120	-58.553	-31.945	1.00	45.85	E	C
ATOM	19508	OG1	THR	E	213	59.391	-58.017	-31.560	1.00	43.91	E	O
ATOM	19510	CG2	THR	E	213	57.322	-58.915	-30.697	1.00	47.53	E	C
ATOM	19514	C	THR	E	213	56.988	-60.399	-33.160	1.00	43.49	E	C
ATOM	19515	O	THR	E	213	56.162	-59.768	-33.807	1.00	43.98	E	O
ATOM	19517	N	LYS	E	214	56.788	-61.641	-32.738	1.00	46.87	E	N
ATOM	19518	CA	LYS	E	214	55.516	-62.336	-32.909	1.00	50.09	E	C
ATOM	19520	CB	LYS	E	214	55.626	-63.423	-33.990	1.00	53.30	E	C
ATOM	19523	CG	LYS	E	214	54.905	-63.065	-35.300	1.00	57.32	E	C
ATOM	19526	CD	LYS	E	214	55.438	-63.810	-36.541	1.00	58.48	E	C
ATOM	19529	CE	LYS	E	214	55.735	-65.291	-36.280	1.00	62.04	E	C
ATOM	19532	NZ	LYS	E	214	54.591	-66.000	-35.638	1.00	64.04	E	N
ATOM	19536	C	LYS	E	214	55.100	-62.918	-31.566	1.00	48.58	E	C
ATOM	19537	O	LYS	E	214	55.484	-64.036	-31.220	1.00	50.07	E	O
ATOM	19539	N	VAL	E	215	54.320	-62.134	-30.820	1.00	47.43	E	N
ATOM	19540	CA	VAL	E	215	53.931	-62.462	-29.447	1.00	45.45	E	C
ATOM	19542	CB	VAL	E	215	54.176	-61.259	-28.507	1.00	42.61	E	C
ATOM	19544	CG1	VAL	E	215	53.807	-61.603	-27.075	1.00	42.46	E	C
ATOM	19548	CG2	VAL	E	215	55.628	-60.808	-28.586	1.00	44.38	E	C
ATOM	19552	C	VAL	E	215	52.457	-62.844	-29.371	1.00	43.31	E	C
ATOM	19553	O	VAL	E	215	51.614	-62.170	-29.952	1.00	46.91	E	O
ATOM	19555	N	ASP	E	216	52.158	-63.936	-28.673	1.00	42.98	E	N
ATOM	19556	CA	ASP	E	216	50.788	-64.263	-28.265	1.00	45.24	E	C
ATOM	19558	CB	ASP	E	216	50.406	-65.684	-28.695	1.00	47.29	E	C
ATOM	19561	CG	ASP	E	216	50.281	-65.837	-30.205	1.00	47.73	E	C
ATOM	19562	OD1	ASP	E	216	49.978	-64.855	-30.913	1.00	45.19	E	O
ATOM	19563	OD2	ASP	E	216	50.479	-66.966	-30.686	1.00	50.79	E	O
ATOM	19564	C	ASP	E	216	50.676	-64.133	-26.737	1.00	46.47	E	C
ATOM	19565	O	ASP	E	216	51.598	-64.514	-26.007	1.00	45.91	E	O
ATOM	19567	N	LYS	E	217	49.553	-63.596	-26.259	1.00	44.76	E	N
ATOM	19568	CA	LYS	E	217	49.344	-63.390	-24.827	1.00	44.01	E	C
ATOM	19570	CB	LYS	E	217	49.581	-61.920	-24.470	1.00	46.16	E	C
ATOM	19573	CG	LYS	E	217	49.649	-61.623	-22.972	1.00	46.48	E	C
ATOM	19576	CD	LYS	E	217	51.030	-61.918	-22.407	1.00	47.39	E	C
ATOM	19579	CE	LYS	E	217	51.015	-61.894	-20.897	1.00	48.11	E	C
ATOM	19582	NZ	LYS	E	217	52.316	-61.434	-20.351	1.00	49.85	E	N
ATOM	19586	C	LYS	E	217	47.941	-63.811	-24.391	1.00	42.42	E	C

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ATOM	19587	O	LYS	E	217	46.955	-63.219	-24.808	1.00	41.36	E	O
ATOM	19589	N	LYS	E	218	47.859	-64.830	-23.543	1.00	43.11	E	N
ATOM	19590	CA	LYS	E	218	46.585	-65.212	-22.944	1.00	43.66	E	C
ATOM	19592	CB	LYS	E	218	46.677	-66.590	-22.273	1.00	45.68	E	C
ATOM	19595	CG	LYS	E	218	45.318	-67.244	-21.948	1.00	46.25	E	C
ATOM	19598	CD	LYS	E	218	45.458	-68.319	-20.854	1.00	47.40	E	C
ATOM	19601	CE	LYS	E	218	44.159	-69.097	-20.596	1.00	48.51	E	C
ATOM	19604	NZ	LYS	E	218	43.052	-68.275	-20.023	1.00	50.07	E	N
ATOM	19608	C	LYS	E	218	46.185	-64.144	-21.924	1.00	42.07	E	C
ATOM	19609	O	LYS	E	218	47.026	-63.641	-21.172	1.00	40.49	E	O
ATOM	19611	N	VAL	E	219	44.902	-63.792	-21.922	1.00	41.33	E	N
ATOM	19612	CA	VAL	E	219	44.359	-62.800	-21.005	1.00	40.40	E	C
ATOM	19614	CB	VAL	E	219	43.702	-61.630	-21.776	1.00	37.59	E	C
ATOM	19616	CG1	VAL	E	219	43.182	-60.579	-20.814	1.00	36.25	E	C
ATOM	19620	CG2	VAL	E	219	44.694	-61.021	-22.767	1.00	36.64	E	C
ATOM	19624	C	VAL	E	219	43.324	-63.493	-20.132	1.00	37.88	E	C
ATOM	19625	O	VAL	E	219	42.375	-64.079	-20.643	1.00	33.13	E	O
ATOM	19627	N	GLU	E	220	43.512	-63.438	-18.818	1.00	41.61	E	N
ATOM	19628	CA	GLU	E	220	42.573	-64.076	-17.889	1.00	43.58	E	C
ATOM	19630	CB	GLU	E	220	42.991	-65.524	-17.621	1.00	45.82	E	C
ATOM	19633	CG	GLU	E	220	44.453	-65.718	-17.213	1.00	46.18	E	C
ATOM	19636	CD	GLU	E	220	44.917	-67.163	-17.346	1.00	46.30	E	C
ATOM	19637	OE1	GLU	E	220	44.069	-68.066	-17.539	1.00	45.96	E	O
ATOM	19638	OE2	GLU	E	220	46.140	-67.396	-17.262	1.00	47.92	E	O
ATOM	19639	C	GLU	E	220	42.454	-63.294	-16.589	1.00	41.18	E	C
ATOM	19640	O	GLU	E	220	43.352	-62.529	-16.259	1.00	41.04	E	O
ATOM	19642	N	PRO	E	221	41.342	-63.477	-15.848	1.00	41.60	E	N
ATOM	19643	CA	PRO	E	221	41.107	-62.660	-14.644	1.00	45.81	E	C
ATOM	19645	CB	PRO	E	221	39.768	-63.189	-14.109	1.00	42.70	E	C
ATOM	19648	CG	PRO	E	221	39.136	-63.898	-15.254	1.00	40.42	E	C
ATOM	19651	CD	PRO	E	221	40.253	-64.446	-16.072	1.00	39.34	E	C
ATOM	19654	C	PRO	E	221	42.197	-62.803	-13.577	1.00	47.97	E	C
ATOM	19655	O	PRO	E	221	42.730	-63.895	-13.398	1.00	50.30	E	O
ATOM	19656	N	LYS	E	222	42.525	-61.709	-12.887	1.00	52.07	E	N
ATOM	19657	CA	LYS	E	222	43.501	-61.745	-11.779	1.00	53.07	E	C
ATOM	19659	CB	LYS	E	222	44.229	-60.395	-11.646	1.00	54.66	E	C
ATOM	19662	CG	LYS	E	222	45.673	-60.489	-11.114	1.00	54.68	E	C
ATOM	19665	CD	LYS	E	222	46.034	-59.355	-10.129	1.00	55.47	E	C
ATOM	19668	CE	LYS	E	222	45.851	-59.798	-8.660	1.00	56.24	E	C
ATOM	19671	NZ	LYS	E	222	45.990	-58.691	-7.662	1.00	55.37	E	N
ATOM	19675	C	LYS	E	222	42.779	-62.069	-10.468	1.00	53.36	E	C
ATOM	19676	O	LYS	E	222	41.676	-61.569	-10.236	1.00	54.04	E	O
ATOM	19678	N	SER	E	223	43.399	-62.895	-9.619	1.00	54.19	E	N
ATOM	19679	CA	SER	E	223	42.852	-63.227	-8.290	1.00	54.01	E	C
ATOM	19681	CB	SER	E	223	43.310	-64.621	-7.856	1.00	52.50	E	C
ATOM	19684	OG	SER	E	223	44.719	-64.737	-7.936	1.00	50.56	E	O
ATOM	19686	C	SER	E	223	43.264	-62.191	-7.236	1.00	54.58	E	C
ATOM	19687	O	SER	E	223	43.401	-62.502	-6.048	1.00	53.60	E	O
ATOM	19689	O3	GOL	G	1	15.644	-12.225	-31.670	1.00	46.05	G	O
ATOM	19691	C3	GOL	G	1	15.907	-12.056	-30.280	1.00	47.89	G	C
ATOM	19694	C2	GOL	G	1	15.938	-10.576	-29.870	1.00	46.30	G	C
ATOM	19696	O2	GOL	G	1	16.263	-9.769	-30.987	1.00	45.94	G	O
ATOM	19698	C1	GOL	G	1	14.585	-10.095	-29.345	1.00	47.01	G	C
ATOM	19701	O1	GOL	G	1	14.210	-10.684	-28.122	1.00	44.95	G	O
ATOM	19703	O3	GOL	G	2	52.092	-55.065	-76.953	1.00	19.73	G	O
ATOM	19705	C3	GOL	G	2	52.164	-55.853	-78.129	1.00	23.77	G	C
ATOM	19708	C2	GOL	G	2	51.437	-55.188	-79.290	1.00	21.18	G	C
ATOM	19710	O2	GOL	G	2	51.782	-55.810	-80.509	1.00	20.50	G	O
ATOM	19712	C1	GOL	G	2	49.926	-55.318	-79.068	1.00	20.44	G	C
ATOM	19715	O1	GOL	G	2	49.239	-54.191	-79.577	1.00	21.26	G	O
ATOM	19717	O3	GOL	G	3	65.965	-55.248	-63.330	1.00	57.18	G	O
ATOM	19719	C3	GOL	G	3	66.479	-55.583	-62.056	1.00	57.77	G	C
ATOM	19722	C2	GOL	G	3	65.540	-55.177	-60.920	1.00	55.71	G	C
ATOM	19724	O2	GOL	G	3	66.160	-55.508	-59.689	1.00	54.46	G	O
ATOM	19726	C1	GOL	G	3	65.158	-53.692	-61.058	1.00	54.65	G	C
ATOM	19729	O1	GOL	G	3	65.149	-52.979	-59.837	1.00	52.71	G	O
ATOM	19731	O3	GOL	G	4	36.529	-47.221	-69.327	1.00	26.15	G	O
ATOM	19733	C3	GOL	G	4	36.387	-46.616	-70.598	1.00	33.10	G	C

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ATOM	19736	C2	GOL	G	4	36.498	-45.100	-70.437	1.00	33.87	G	C
ATOM	19738	O2	GOL	G	4	37.055	-44.363	-71.524	1.00	31.17	G	O
ATOM	19740	C1	GOL	G	4	35.146	-44.489	-70.154	1.00	26.93	G	C
ATOM	19743	O1	GOL	G	4	35.402	-43.118	-70.211	1.00	17.42	G	O
ATOM	19745	O3	GOL	G	5	53.349	-53.881	-94.776	1.00	46.57	G	O
ATOM	19747	C3	GOL	G	5	52.799	-52.620	-94.458	1.00	50.34	G	C
ATOM	19750	C2	GOL	G	5	53.748	-51.779	-93.600	1.00	54.72	G	C
ATOM	19752	O2	GOL	G	5	54.208	-52.527	-92.487	1.00	53.84	G	O
ATOM	19754	C1	GOL	G	5	54.936	-51.265	-94.425	1.00	57.21	G	C
ATOM	19757	O1	GOL	G	5	55.296	-49.962	-94.007	1.00	57.71	G	O
ATOM	19759	O3	GOL	G	6	59.790	-59.263	-84.436	1.00	47.17	G	O
ATOM	19761	C3	GOL	G	6	58.733	-60.153	-84.149	1.00	47.82	G	C
ATOM	19764	C2	GOL	G	6	57.356	-59.672	-84.624	1.00	47.98	G	C
ATOM	19766	O2	GOL	G	6	57.341	-58.284	-84.898	1.00	47.56	G	O
ATOM	19768	C1	GOL	G	6	56.818	-60.437	-85.833	1.00	47.02	G	C
ATOM	19771	O1	GOL	G	6	55.485	-60.841	-85.566	1.00	43.63	G	O
ATOM	19773	O3	GOL	G	7	53.713	-35.146	-51.931	1.00	40.24	G	O
ATOM	19775	C3	GOL	G	7	55.013	-34.581	-51.814	1.00	46.78	G	C
ATOM	19778	C2	GOL	G	7	56.095	-35.427	-52.517	1.00	46.26	G	C
ATOM	19780	O2	GOL	G	7	56.863	-34.629	-53.385	1.00	46.86	G	O
ATOM	19782	C1	GOL	G	7	57.068	-36.089	-51.549	1.00	46.65	G	C
ATOM	19785	O1	GOL	G	7	58.320	-35.443	-51.629	1.00	45.82	G	O
ATOM	19787	O3	GOL	G	8	-9.741	-10.697	-55.319	1.00	25.89	G	O
ATOM	19789	C3	GOL	G	8	-9.353	-9.682	-54.405	1.00	25.72	G	C
ATOM	19792	C2	GOL	G	8	-10.493	-9.038	-53.584	1.00	20.92	G	C
ATOM	19794	O2	GOL	G	8	-11.792	-9.137	-54.161	1.00	13.98	G	O
ATOM	19796	C1	GOL	G	8	-10.559	-9.578	-52.179	1.00	24.21	G	C
ATOM	19799	O1	GOL	G	8	-9.297	-9.619	-51.562	1.00	22.66	G	O
ATOM	19801	O3	GOL	G	9	23.754	-54.401	-57.185	1.00	39.94	G	O
ATOM	19803	C3	GOL	G	9	24.397	-54.111	-58.425	1.00	42.14	G	C
ATOM	19806	C2	GOL	G	9	25.919	-53.952	-58.250	1.00	40.94	G	C
ATOM	19808	O2	GOL	G	9	26.315	-54.789	-57.201	1.00	36.99	G	O
ATOM	19810	C1	GOL	G	9	26.755	-54.318	-59.492	1.00	42.14	G	C
ATOM	19813	O1	GOL	G	9	26.810	-53.296	-60.476	1.00	38.73	G	O
ATOM	19815	O3	GOL	G	10	2.145	-23.190	-61.347	1.00	51.92	G	O
ATOM	19817	C3	GOL	G	10	3.547	-23.378	-61.329	1.00	52.73	G	C
ATOM	19820	C2	GOL	G	10	3.914	-24.815	-60.947	1.00	52.10	G	C
ATOM	19822	O2	GOL	G	10	3.653	-25.030	-59.570	1.00	49.20	G	O
ATOM	19824	C1	GOL	G	10	3.182	-25.828	-61.835	1.00	50.19	G	C
ATOM	19827	O1	GOL	G	10	2.024	-26.336	-61.195	1.00	49.25	G	O
ATOM	19829	ZN	ZN	I	1	4.956	-34.114	-61.087	1.00	25.84	I	ZN
ATOM	19830	ZN	ZN	I	2	48.678	-30.113	-66.514	1.00	20.35	I	ZN
ATOM	19831	ZN	ZN	I	3	62.846	-55.911	-82.250	1.00	26.53	I	ZN
ATOM	19832	ZN	ZN	I	4	38.466	-12.195	-34.686	1.00	61.87	I	ZN
ATOM	19833	ZN	ZN	I	5	5.806	-22.193	-58.517	1.00	86.90	I	ZN
ATOM	19834	ZN	ZN	I	6	1.732	-11.390	-76.111	1.00	133.94	I	ZN
ATOM	19835	S	SO4	I	7	34.756	-42.392	-103.062	1.00	71.34	I	S
ATOM	19836	O1	SO4	I	7	36.066	-41.877	-103.455	1.00	70.77	I	O
ATOM	19837	O2	SO4	I	7	33.704	-41.813	-103.894	1.00	71.26	I	O
ATOM	19838	O3	SO4	I	7	34.766	-43.840	-103.200	1.00	73.57	I	O
ATOM	19839	O4	SO4	I	7	34.476	-42.081	-101.669	1.00	72.03	I	O
ATOM	19840	S	SO4	I	8	-18.190	-24.987	-80.132	1.00	43.16	I	S
ATOM	19841	O1	SO4	I	8	-19.063	-26.015	-80.685	1.00	47.41	I	O
ATOM	19842	O2	SO4	I	8	-17.648	-25.431	-78.846	1.00	37.60	I	O
ATOM	19843	O3	SO4	I	8	-19.000	-23.813	-79.851	1.00	41.03	I	O
ATOM	19844	O4	SO4	I	8	-17.134	-24.708	-81.117	1.00	39.84	I	O
ATOM	19845	S	SO4	I	9	-5.111	-15.184	-69.182	1.00	95.52	I	S
ATOM	19846	O1	SO4	I	9	-4.436	-16.135	-70.071	1.00	95.33	I	O
ATOM	19847	O2	SO4	I	9	-6.254	-15.845	-68.563	1.00	95.42	I	O
ATOM	19848	O3	SO4	I	9	-5.608	-14.044	-69.951	1.00	93.42	I	O
ATOM	19849	O4	SO4	I	9	-4.184	-14.723	-68.146	1.00	93.82	I	O
ATOM	19850	OW0	WAT	M	1	32.447	-52.213	-28.369	1.00	13.61	M	O
ATOM	19853	OW0	WAT	M	2	43.667	-53.676	-61.408	1.00	17.23	M	O
ATOM	19856	OW0	WAT	M	3	39.955	-9.300	-47.861	1.00	41.36	M	O
ATOM	19859	OW0	WAT	M	4	38.518	-49.564	-47.346	1.00	18.23	M	O
ATOM	19862	OW0	WAT	M	5	45.855	-63.208	-71.780	1.00	21.22	M	O
ATOM	19865	OW0	WAT	M	6	2.380	-10.736	-71.113	1.00	46.11	M	O
ATOM	19868	OW0	WAT	M	7	36.936	-53.594	-60.034	1.00	22.76	M	O

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ATOM	19871	OW0	WAT	M	8	39.684	-52.094	-55.626	1.00	11.11	M	O
ATOM	19874	OW0	WAT	M	9	57.718	-48.274	-40.882	1.00	21.01	M	O
ATOM	19877	OW0	WAT	M	10	59.874	-52.890	-48.581	1.00	21.89	M	O
ATOM	19880	OW0	WAT	M	11	40.931	-52.821	-53.220	1.00	18.56	M	O
ATOM	19883	OW0	WAT	M	12	28.694	-46.022	-38.596	1.00	24.32	M	O
ATOM	19886	OW0	WAT	M	13	36.638	-53.121	-57.166	1.00	26.22	M	O
ATOM	19889	OW0	WAT	M	14	36.706	-51.271	-74.659	1.00	26.60	M	O
ATOM	19892	OW0	WAT	M	15	22.655	-43.522	-55.307	1.00	17.11	M	O
ATOM	19895	OW0	WAT	M	16	32.973	-53.562	-35.803	1.00	30.84	M	O
ATOM	19898	OW0	WAT	M	17	35.322	-43.959	-78.938	1.00	35.02	M	O
ATOM	19901	OW0	WAT	M	18	32.881	-13.459	-35.424	1.00	29.50	M	O
ATOM	19904	OW0	WAT	M	19	30.077	-49.664	-47.842	1.00	24.59	M	O
ATOM	19907	OW0	WAT	M	20	7.391	-28.329	-62.497	1.00	45.79	M	O
ATOM	19910	OW0	WAT	M	21	32.317	-38.328	-88.292	1.00	33.98	M	O
ATOM	19913	OW0	WAT	M	22	6.907	-40.387	-50.076	1.00	27.28	M	O
ATOM	19916	OW0	WAT	M	23	-18.929	-21.721	-58.173	1.00	38.25	M	O
ATOM	19919	OW0	WAT	M	24	23.138	-52.138	-42.463	1.00	30.67	M	O
ATOM	19922	OW0	WAT	M	25	42.662	-55.039	-53.944	1.00	16.46	M	O
ATOM	19925	OW0	WAT	M	26	41.555	-41.997	-46.029	1.00	32.15	M	O
ATOM	19928	OW0	WAT	M	27	54.754	-66.740	-90.878	1.00	40.45	M	O
ATOM	19931	OW0	WAT	M	28	21.396	-41.984	-37.940	1.00	17.00	M	O
ATOM	19934	OW0	WAT	M	29	42.492	-72.023	-81.488	1.00	34.62	M	O
ATOM	19937	OW0	WAT	M	30	30.534	-39.421	-60.977	1.00	16.31	M	O
ATOM	19940	OW0	WAT	M	31	37.599	-40.892	-34.338	1.00	33.76	M	O
ATOM	19943	OW0	WAT	M	32	49.371	-62.274	-85.500	1.00	35.83	M	O
ATOM	19946	OW0	WAT	M	33	32.108	-13.135	-33.034	1.00	21.74	M	O
ATOM	19949	OW0	WAT	M	34	-7.950	0.970	-56.407	1.00	23.19	M	O
ATOM	19952	OW0	WAT	M	35	24.860	-10.430	-41.359	1.00	45.73	M	O
ATOM	19955	OW0	WAT	M	36	-19.332	-13.591	-49.789	1.00	28.92	M	O
ATOM	19958	OW0	WAT	M	37	68.844	-46.749	-43.240	1.00	27.78	M	O
ATOM	19961	OW0	WAT	M	38	-22.526	-12.433	-57.418	1.00	35.52	M	O
ATOM	19964	OW0	WAT	M	39	34.045	-48.536	-65.990	1.00	9.87	M	O
ATOM	19967	OW0	WAT	M	40	21.650	-50.754	-51.056	1.00	28.21	M	O
ATOM	19970	OW0	WAT	M	41	21.813	-10.200	-51.201	1.00	36.44	M	O
ATOM	19973	OW0	WAT	M	42	33.683	-46.431	-78.260	1.00	28.04	M	O
ATOM	19976	OW0	WAT	M	43	47.157	-43.077	-43.120	1.00	28.78	M	O
ATOM	19979	OW0	WAT	M	44	31.952	-51.688	-30.144	1.00	18.93	M	O
ATOM	19982	OW0	WAT	M	45	22.774	-53.965	-53.796	1.00	23.46	M	O
ATOM	19985	OW0	WAT	M	46	45.605	-54.549	-36.052	1.00	26.10	M	O
ATOM	19988	OW0	WAT	M	47	26.524	-45.407	-61.123	1.00	20.13	M	O
ATOM	19991	OW0	WAT	M	48	32.651	-47.885	-30.913	1.00	29.90	M	O
ATOM	19994	OW0	WAT	M	49	34.226	-41.327	-41.389	1.00	33.57	M	O
ATOM	19997	OW0	WAT	M	50	33.360	0.714	-38.214	1.00	46.09	M	O
ATOM	20000	OW0	WAT	M	51	54.150	-52.248	-44.063	1.00	28.07	M	O
ATOM	20003	OW0	WAT	M	52	31.109	-45.088	-85.518	1.00	39.75	M	O
ATOM	20006	OW0	WAT	M	53	-29.772	-12.663	-85.086	1.00	28.32	M	O
ATOM	20009	OW0	WAT	M	54	37.723	-10.746	-15.154	1.00	37.06	M	O
ATOM	20012	OW0	WAT	M	55	35.779	-51.578	-14.654	1.00	29.25	M	O
ATOM	20015	OW0	WAT	M	56	-7.296	6.351	-63.298	1.00	26.61	M	O
ATOM	20018	OW0	WAT	M	57	33.290	-40.774	-38.512	1.00	26.57	M	O
ATOM	20021	OW0	WAT	M	58	34.928	-9.246	-35.370	1.00	35.96	M	O
ATOM	20024	OW0	WAT	M	59	34.964	-50.093	-37.158	1.00	32.14	M	O
ATOM	20027	OW0	WAT	M	60	42.674	-31.549	-83.873	1.00	29.16	M	O
ATOM	20030	OW0	WAT	M	61	-12.422	-22.493	-60.061	1.00	32.20	M	O
ATOM	20033	OW0	WAT	M	62	45.399	-55.935	-50.842	1.00	31.92	M	O
ATOM	20036	OW0	WAT	M	63	32.518	-48.393	-42.112	1.00	37.08	M	O
ATOM	20039	OW0	WAT	M	64	30.888	-51.096	-50.144	1.00	29.52	M	O
ATOM	20042	OW0	WAT	M	65	6.751	-0.391	-34.223	1.00	49.91	M	O
ATOM	20045	OW0	WAT	M	66	-8.546	-29.662	-68.949	1.00	9.99	M	O
ATOM	20048	OW0	WAT	M	67	20.864	-50.221	-48.762	1.00	28.44	M	O
ATOM	20051	OW0	WAT	M	68	41.096	-60.076	-63.006	1.00	25.20	M	O
ATOM	20054	OW0	WAT	M	69	54.407	-54.801	-38.178	1.00	33.00	M	O
ATOM	20057	OW0	WAT	M	70	43.404	-48.198	-84.642	1.00	20.80	M	O
ATOM	20060	OW0	WAT	M	71	22.918	-47.808	-58.133	1.00	23.93	M	O
ATOM	20063	OW0	WAT	M	72	50.250	-53.312	-17.607	1.00	31.63	M	O
ATOM	20066	OW0	WAT	M	73	-29.746	-12.309	-69.229	1.00	32.99	M	O
ATOM	20069	OW0	WAT	M	74	21.206	-9.173	-47.551	1.00	46.07	M	O
ATOM	20072	OW0	WAT	M	75	-11.643	-28.378	-66.482	1.00	21.29	M	O

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ATOM	20075	OW0	WAT	M	76	-12.034	11.848	-65.011	1.00	32.38	M	O
ATOM	20078	OW0	WAT	M	77	26.610	-49.497	-63.568	1.00	20.61	M	O
ATOM	20081	OW0	WAT	M	78	49.568	-21.186	-11.757	1.00	54.01	M	O
ATOM	20084	OW0	WAT	M	79	50.555	-59.882	-14.706	1.00	30.62	M	O
ATOM	20087	OW0	WAT	M	80	36.584	0.126	-35.316	1.00	42.91	M	O
ATOM	20090	OW0	WAT	M	81	-31.498	-7.402	-85.582	1.00	34.72	M	O
ATOM	20093	OW0	WAT	M	82	37.292	-55.311	-17.164	1.00	32.25	M	O
ATOM	20096	OW0	WAT	M	83	41.294	-62.543	-59.528	1.00	21.78	M	O
ATOM	20099	OW0	WAT	M	84	-7.151	-19.370	-35.262	1.00	41.50	M	O
ATOM	20102	OW0	WAT	M	85	35.221	-10.243	-49.200	1.00	31.10	M	O
ATOM	20105	OW0	WAT	M	86	42.355	-56.137	-51.393	1.00	28.48	M	O
ATOM	20108	OW0	WAT	M	87	43.146	-60.656	-64.450	1.00	22.78	M	O
ATOM	20111	OW0	WAT	M	88	-20.147	-7.515	-56.101	1.00	26.77	M	O
ATOM	20114	OW0	WAT	M	89	61.876	-56.102	-45.752	1.00	28.56	M	O
ATOM	20117	OW0	WAT	M	90	38.863	9.044	-26.507	1.00	44.62	M	O
ATOM	20120	OW0	WAT	M	91	37.455	-10.303	-36.122	1.00	42.93	M	O
ATOM	20123	OW0	WAT	M	92	-22.756	-22.193	-59.900	1.00	45.91	M	O
ATOM	20126	OW0	WAT	M	93	31.176	-39.939	-65.985	1.00	34.61	M	O
ATOM	20129	OW0	WAT	M	94	41.436	-72.033	-79.172	1.00	42.71	M	O
ATOM	20132	OW0	WAT	M	95	58.508	-63.071	-36.039	1.00	56.23	M	O
ATOM	20135	OW0	WAT	M	96	-25.811	-18.278	-59.536	1.00	32.21	M	O
ATOM	20138	OW0	WAT	M	97	39.310	-52.834	-48.801	1.00	27.28	M	O
ATOM	20141	OW0	WAT	M	98	33.363	-62.846	-32.990	1.00	36.31	M	O
ATOM	20144	OW0	WAT	M	99	32.538	-9.531	-49.020	1.00	38.46	M	O
ATOM	20147	OW0	WAT	M	100	35.980	-42.881	-74.344	1.00	47.87	M	O
ATOM	20150	OW0	WAT	M	101	37.539	-50.141	-33.519	1.00	30.75	M	O
ATOM	20153	OW0	WAT	M	102	3.492	-22.105	-57.950	1.00	41.77	M	O
ATOM	20156	OW0	WAT	M	103	45.725	-46.595	-26.678	1.00	29.39	M	O
ATOM	20159	OW0	WAT	M	104	-6.322	-20.181	-47.556	1.00	27.90	M	O
ATOM	20162	OW0	WAT	M	105	61.208	-56.929	-86.317	1.00	38.81	M	O
ATOM	20165	OW0	WAT	M	106	66.676	-45.522	-38.489	1.00	31.17	M	O
ATOM	20168	OW0	WAT	M	107	44.669	-46.424	-43.364	1.00	32.00	M	O
ATOM	20171	OW0	WAT	M	108	46.540	-22.002	-0.088	1.00	35.73	M	O
ATOM	20174	OW0	WAT	M	109	28.585	-41.210	-67.573	1.00	24.60	M	O
ATOM	20177	OW0	WAT	M	110	36.156	3.773	-32.069	1.00	37.12	M	O
ATOM	20180	OW0	WAT	M	111	-19.831	-12.315	-68.033	1.00	28.68	M	O
ATOM	20183	OW0	WAT	M	112	35.385	-40.254	-74.683	1.00	24.65	M	O
ATOM	20186	OW0	WAT	M	113	23.186	-44.471	-23.295	1.00	39.07	M	O
ATOM	20189	OW0	WAT	M	114	35.755	-53.155	-75.603	1.00	32.92	M	O
ATOM	20192	OW0	WAT	M	115	54.918	-65.782	-93.310	1.00	36.42	M	O
ATOM	20195	OW0	WAT	M	116	46.997	-62.185	-18.320	1.00	38.84	M	O
ATOM	20198	OW0	WAT	M	117	41.055	-42.790	-34.877	1.00	29.51	M	O
ATOM	20201	OW0	WAT	M	118	42.140	-37.827	-45.166	1.00	29.44	M	O
ATOM	20204	OW0	WAT	M	119	34.426	-48.186	-39.707	1.00	32.56	M	O
ATOM	20207	OW0	WAT	M	120	36.915	-42.688	-42.160	1.00	32.98	M	O
ATOM	20210	OW0	WAT	M	121	28.304	-12.554	-57.767	1.00	39.16	M	O
ATOM	20213	OW0	WAT	M	122	36.595	-50.463	-48.265	1.00	32.34	M	O
ATOM	20216	OW0	WAT	M	123	-22.469	-10.062	-56.334	1.00	22.95	M	O
ATOM	20219	OW0	WAT	M	124	34.430	-48.553	-76.973	1.00	33.24	M	O
ATOM	20222	OW0	WAT	M	125	-26.127	-4.667	-70.808	1.00	33.23	M	O
ATOM	20225	OW0	WAT	M	126	-27.828	-8.374	-59.067	1.00	19.84	M	O
ATOM	20228	OW0	WAT	M	127	-31.963	-9.683	-82.802	1.00	36.00	M	O
ATOM	20231	OW0	WAT	M	128	-32.011	-6.514	-87.893	1.00	40.12	M	O
ATOM	20234	OW0	WAT	M	129	-29.458	-6.576	-81.340	1.00	36.57	M	O
ATOM	20237	OW0	WAT	M	130	40.919	-52.898	-6.066	1.00	42.35	M	O
ATOM	20240	OW0	WAT	M	131	-16.430	10.124	-69.881	1.00	46.95	M	O
ATOM	20243	OW0	WAT	M	132	51.233	-23.823	-13.332	1.00	38.53	M	O
ATOM	20246	OW0	WAT	M	133	47.215	-51.600	-17.510	1.00	34.97	M	O
ATOM	20249	OW0	WAT	M	134	52.367	-55.193	-40.633	1.00	39.71	M	O
ATOM	20252	OW0	WAT	M	135	43.584	-63.498	-64.027	1.00	29.82	M	O
ATOM	20255	OW0	WAT	M	136	26.143	-41.264	-66.488	1.00	26.86	M	O
ATOM	20258	OW0	WAT	M	137	33.624	-43.934	-74.827	1.00	28.33	M	O
ATOM	20261	OW0	WAT	M	138	-17.182	-26.897	-74.243	1.00	38.04	M	O
ATOM	20264	OW0	WAT	M	139	62.509	-44.270	-30.655	1.00	40.08	M	O
ATOM	20267	OW0	WAT	M	140	24.602	-52.514	-61.486	1.00	36.11	M	O
ATOM	20270	OW0	WAT	M	141	-20.563	-23.058	-66.219	1.00	37.41	M	O
ATOM	20273	OW0	WAT	M	142	-5.083	0.041	-48.826	1.00	37.36	M	O
ATOM	20276	OW0	WAT	M	143	24.927	-47.306	-59.764	1.00	34.56	M	O

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ATOM	20279	OW0	WAT	M	144	40.439	-60.198	-59.664	1.00	33.11	M	O
ATOM	20282	OW0	WAT	M	145	49.715	-69.990	-82.724	1.00	27.68	M	O
ATOM	20285	OW0	WAT	M	146	36.089	-50.651	-69.304	1.00	31.88	M	O
ATOM	20288	OW0	WAT	M	147	36.824	-7.928	-37.568	1.00	41.97	M	O
ATOM	20291	OW0	WAT	M	148	59.311	-40.442	-38.365	1.00	32.43	M	O
ATOM	20294	OW0	WAT	M	149	-4.834	5.888	-63.790	1.00	33.48	M	O
ATOM	20297	OW0	WAT	M	150	29.159	-43.652	-84.009	1.00	37.06	M	O
ATOM	20300	OW0	WAT	M	151	63.527	-57.757	-81.797	1.00	33.87	M	O
ATOM	20303	OW0	WAT	M	152	44.009	-30.045	-29.453	1.00	39.31	M	O
ATOM	20306	OW0	WAT	M	153	-17.518	-3.802	-55.802	1.00	29.57	M	O
ATOM	20309	OW0	WAT	M	154	34.554	-47.423	-32.559	1.00	36.00	M	O
ATOM	20312	OW0	WAT	M	155	39.401	-53.923	-51.617	1.00	24.94	M	O
ATOM	20315	OW0	WAT	M	156	21.226	-14.524	-42.265	1.00	12.93	M	O
ATOM	20318	OW0	WAT	M	157	50.087	-49.822	-36.029	1.00	34.29	M	O
ATOM	20321	OW0	WAT	M	158	30.118	-53.063	-32.998	1.00	39.47	M	O
ATOM	20324	OW0	WAT	M	159	17.856	-47.458	-43.654	1.00	34.39	M	O
ATOM	20327	OW0	WAT	M	160	23.169	-52.701	-44.907	1.00	35.16	M	O
ATOM	20330	OW0	WAT	M	161	26.409	-55.938	-18.337	1.00	38.68	M	O
ATOM	20333	OW0	WAT	M	162	21.920	-14.170	-44.563	1.00	25.88	M	O
ATOM	20336	OW0	WAT	M	163	55.700	-41.092	-11.775	1.00	33.81	M	O
ATOM	20339	OW0	WAT	M	164	-18.275	5.273	-69.261	1.00	44.92	M	O
ATOM	20342	OW0	WAT	M	165	57.511	-63.012	-89.586	1.00	42.41	M	O
ATOM	20345	OW0	WAT	M	166	53.286	-18.009	-18.268	1.00	54.86	M	O
ATOM	20348	OW0	WAT	M	167	40.204	-43.748	-43.549	1.00	34.83	M	O
ATOM	20351	OW0	WAT	M	168	21.440	-45.343	-59.672	1.00	41.72	M	O
ATOM	20354	OW0	WAT	M	169	5.190	-19.719	-62.708	1.00	32.23	M	O
ATOM	20357	OW0	WAT	M	170	-23.211	5.742	-73.923	1.00	33.19	M	O
ATOM	20360	OW0	WAT	M	171	67.844	-48.104	-40.213	1.00	34.45	M	O
ATOM	20363	OW0	WAT	M	172	35.502	-45.595	-41.516	1.00	37.75	M	O
ATOM	20366	OW0	WAT	M	173	-7.750	-28.255	-81.808	1.00	42.45	M	O
ATOM	20369	OW0	WAT	M	174	39.841	-63.746	-20.076	1.00	38.63	M	O
ATOM	20372	OW0	WAT	M	175	48.424	-47.505	-35.290	1.00	41.09	M	O
ATOM	20375	OW0	WAT	M	176	16.343	1.414	-41.239	1.00	40.93	M	O
ATOM	20378	OW0	WAT	M	177	16.584	-40.599	-42.471	1.00	40.01	M	O
ATOM	20381	OW0	WAT	M	178	46.067	-29.464	-85.047	1.00	42.90	M	O
ATOM	20384	OW0	WAT	M	179	61.119	-50.705	-22.849	1.00	34.07	M	O
ATOM	20387	OW0	WAT	M	180	39.823	-76.724	-97.320	1.00	43.44	M	O
ATOM	20390	OW0	WAT	M	181	-23.258	-11.404	-62.617	1.00	23.42	M	O
ATOM	20393	OW0	WAT	M	182	15.909	-43.915	-46.581	1.00	27.40	M	O
ATOM	20396	OW0	WAT	M	183	65.971	-57.589	-85.815	1.00	17.42	M	O
ATOM	20399	OW0	WAT	M	184	47.083	-73.092	-93.529	1.00	35.45	M	O
ATOM	20402	OW0	WAT	M	185	42.156	-60.698	-55.738	1.00	32.53	M	O
ATOM	20405	OW0	WAT	M	186	38.525	-44.405	-81.077	1.00	24.51	M	O
ATOM	20408	OW0	WAT	M	187	66.053	-57.959	-83.343	1.00	19.90	M	O
ATOM	20411	OW0	WAT	M	188	-31.968	-6.914	-83.125	1.00	40.25	M	O
ATOM	20414	OW0	WAT	M	189	47.635	-44.665	-35.833	1.00	23.17	M	O
ATOM	20417	OW0	WAT	M	190	32.874	-53.413	-32.102	1.00	40.82	M	O
ATOM	20420	OW0	WAT	M	191	-20.696	-21.995	-64.037	1.00	25.74	M	O
ATOM	20423	OW0	WAT	M	192	-33.453	-9.233	-88.263	1.00	26.61	M	O
ATOM	20426	OW0	WAT	M	193	44.551	-54.068	-8.211	1.00	43.39	M	O
ATOM	20429	OW0	WAT	M	194	28.538	-16.303	-32.375	1.00	39.17	M	O
ATOM	20432	OW0	WAT	M	195	42.968	-28.457	-31.909	1.00	43.02	M	O
ATOM	20435	OW0	WAT	M	196	-36.022	-2.141	-88.086	1.00	47.69	M	O
ATOM	20438	OW0	WAT	M	197	67.527	-48.415	-52.554	1.00	72.95	M	O
ATOM	20441	OW0	WAT	M	198	-25.011	-15.863	-56.526	1.00	27.60	M	O
ATOM	20444	OW0	WAT	M	199	53.618	-19.047	-11.793	1.00	54.88	M	O
ATOM	20447	OW0	WAT	M	200	38.680	-44.165	-67.257	1.00	13.32	M	O
ATOM	20450	OW0	WAT	M	201	35.342	-49.879	-34.505	1.00	32.46	M	O
ATOM	20453	OW0	WAT	M	202	32.699	-53.194	-63.584	1.00	39.46	M	O
ATOM	20456	OW0	WAT	M	203	62.230	-60.015	-81.080	1.00	39.19	M	O
ATOM	20459	OW0	WAT	M	204	42.609	-54.150	-46.852	1.00	31.03	M	O
ATOM	20462	OW0	WAT	M	205	57.421	-58.795	-79.913	1.00	24.40	M	O
ATOM	20465	OW0	WAT	M	206	-1.781	-28.928	-79.505	1.00	30.44	M	O
ATOM	20468	OW0	WAT	M	207	-16.069	-23.873	-71.249	1.00	24.55	M	O
ATOM	20471	OW0	WAT	M	208	33.233	-13.718	-54.796	1.00	39.03	M	O
ATOM	20474	OW0	WAT	M	209	0.038	-27.618	-29.119	1.00	37.71	M	O
ATOM	20477	OW0	WAT	M	210	6.611	-9.334	-26.819	1.00	33.12	M	O
ATOM	20480	OW0	WAT	M	211	-33.477	-3.575	-76.066	1.00	54.07	M	O

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ATOM	20483	OW0	WAT	M	212	44.969	-43.820	-43.980	1.00	42.81		M	O
ATOM	20486	OW0	WAT	M	213	48.011	-53.687	-18.743	1.00	51.34		M	O
ATOM	20489	OW0	WAT	M	214	34.877	-1.161	-36.603	1.00	44.40		M	O
ATOM	20492	OW0	WAT	M	215	27.256	-10.720	-56.343	1.00	44.52		M	O
ATOM	20495	OW0	WAT	M	216	-14.928	-22.932	-59.120	1.00	38.92		M	O
ATOM	20498	OW0	WAT	M	217	3.318	-36.154	-47.180	1.00	29.93		M	O
ATOM	20501	OW0	WAT	M	218	41.634	1.468	-6.527	1.00	46.18		M	O
ATOM	20504	OW0	WAT	M	219	41.474	-40.742	-6.705	1.00	37.58		M	O
ATOM	20507	OW0	WAT	M	220	46.166	-25.386	3.099	1.00	47.88		M	O
ATOM	20510	OW0	WAT	M	221	15.110	-44.667	-43.353	1.00	35.80		M	O
ATOM	20513	OW0	WAT	M	222	26.651	-45.961	-90.553	1.00	45.01		M	O
ATOM	20516	OW0	WAT	M	223	42.138	-30.682	-78.964	1.00	38.34		M	O
ATOM	20519	OW0	WAT	M	224	18.110	-40.906	-51.600	1.00	39.80		M	O
ATOM	20522	OW0	WAT	M	225	37.421	-53.752	-34.765	1.00	28.13		M	O
ATOM	20525	OW0	WAT	M	226	24.010	-13.937	-48.939	1.00	33.66		M	O
ATOM	20528	OW0	WAT	M	227	-10.788	-1.598	-51.705	1.00	52.26		M	O
ATOM	20531	OW0	WAT	M	228	-9.342	-0.548	-53.275	1.00	35.04		M	O
ATOM	20534	OW0	WAT	M	229	36.740	-0.153	-7.777	1.00	51.87		M	O
ATOM	20537	OW0	WAT	M	230	-32.194	-7.600	-90.379	1.00	41.64		M	O
ATOM	20540	OW0	WAT	M	231	-26.129	4.021	-80.611	1.00	33.87		M	O
ATOM	20543	OW0	WAT	M	232	38.422	-27.110	-22.773	1.00	32.00		M	O
ATOM	20546	OW0	WAT	M	233	40.442	-51.632	-112.574	1.00	53.56		M	O
ATOM	20549	OW0	WAT	M	234	47.043	-45.923	-28.488	1.00	43.38		M	O
ATOM	20552	OW0	WAT	M	235	45.425	-71.690	-21.363	1.00	55.91		M	O
ATOM	20555	OW0	WAT	M	236	39.537	-40.377	-40.802	1.00	32.06		M	O
ATOM	20558	OW0	WAT	M	237	48.727	-43.288	-94.057	1.00	31.30		M	O
ATOM	20561	OW0	WAT	M	238	50.398	-49.249	-106.653	1.00	56.65		M	O
ATOM	20564	OW0	WAT	M	239	44.815	-55.207	-15.507	1.00	36.92		M	O
ATOM	20567	OW0	WAT	M	240	44.862	-40.975	-44.004	1.00	34.57		M	O
ATOM	20570	OW0	WAT	M	241	20.468	-43.491	-34.014	1.00	33.16		M	O
ATOM	20573	OW0	WAT	M	242	39.745	-46.962	-35.925	1.00	38.42		M	O
ATOM	20576	OW0	WAT	M	243	40.728	-5.740	-34.599	1.00	60.57		M	O
ATOM	20579	OW0	WAT	M	244	58.026	-63.703	-10.983	1.00	44.36		M	O
ATOM	20582	OW0	WAT	M	245	20.661	-12.785	-32.651	1.00	41.75		M	O
ATOM	20585	OW0	WAT	M	246	36.631	-52.972	-71.532	1.00	37.47		M	O
ATOM	20588	OW0	WAT	M	247	16.218	-40.288	-44.656	1.00	38.75		M	O
ATOM	20591	OW0	WAT	M	248	-20.443	-15.570	-50.453	1.00	37.27		M	O
ATOM	20594	OW0	WAT	M	249	-26.712	-14.177	-67.370	1.00	33.35		M	O
ATOM	20597	OW0	WAT	M	250	26.801	-48.130	-65.969	1.00	29.89		M	O
ATOM	20600	OW0	WAT	M	251	23.983	-45.680	-36.859	1.00	31.19		M	O
ATOM	20603	OW0	WAT	M	252	44.471	-47.180	3.932	1.00	58.60		M	O
ATOM	20606	OW0	WAT	M	253	67.762	-55.189	-83.670	1.00	18.58		M	O
ATOM	20609	OW0	WAT	M	254	44.174	-22.799	4.057	1.00	48.79		M	O
ATOM	20612	OW0	WAT	M	255	65.520	-52.434	-47.248	1.00	37.60		M	O
ATOM	20615	OW0	WAT	M	256	-37.423	-2.441	-84.852	1.00	44.25		M	O
ATOM	20618	OW0	WAT	M	257	-22.530	-14.860	-54.710	1.00	22.70		M	O
ATOM	20621	OW0	WAT	M	258	51.441	-21.275	-13.718	1.00	55.28		M	O
ATOM	20624	OW0	WAT	M	259	-12.665	-23.438	-57.688	1.00	50.48		M	O
ATOM	20627	OW0	WAT	M	260	-25.351	-10.633	-78.176	1.00	17.97		M	O
ATOM	20630	OW0	WAT	M	261	-35.720	-2.329	-75.507	1.00	27.77		M	O
ATOM	20633	OW0	WAT	M	262	-28.699	-20.359	-76.813	1.00	26.38		M	O
ATOM	20636	OW0	WAT	M	263	59.905	-58.747	-81.014	1.00	18.26		M	O
ATOM	20639	OW0	WAT	M	264	68.534	-45.248	-54.627	1.00	98.21		M	O
ATOM	20642	OW0	WAT	M	265	66.436	-41.158	-57.812	1.00	33.12		M	O
ATOM	20645	OW0	WAT	M	266	39.448	-61.439	-80.879	1.00	42.76		M	O
ATOM	20648	OW0	WAT	M	267	-19.669	-9.417	-55.734	1.00	238.71		M	O
ATOM	20651	OW0	WAT	M	268	38.386	-48.043	-37.593	1.00	31.76		M	O
ATOM	20654	OW0	WAT	M	269	53.358	-20.178	-15.234	1.00	52.57		M	O
ATOM	20657	OW0	WAT	M	270	-22.519	-12.929	-60.286	1.00	23.47		M	O
ATOM	20660	OW0	WAT	M	271	29.993	-11.889	-53.915	1.00	35.87		M	O
ATOM	20663	OW0	WAT	M	272	-26.961	-4.297	-68.346	1.00	23.34		M	O
ATOM	20666	OW0	WAT	M	273	35.728	-51.272	-85.479	1.00	29.40		M	O
ATOM	20669	OW0	WAT	M	274	51.082	-60.955	-17.074	1.00	39.07		M	O
ATOM	20672	OW0	WAT	M	275	41.608	-66.431	-21.460	1.00	41.24		M	O
ATOM	20675	OW0	WAT	M	276	41.981	11.396	-28.323	1.00	49.20		M	O
ATOM	20678	OW0	WAT	M	277	39.938	-36.047	-21.926	1.00	34.42		M	O
ATOM	20681	OW0	WAT	M	278	8.268	-5.038	-51.658	1.00	32.46		M	O
ATOM	20684	OW0	WAT	M	279	47.217	-23.456	1.933	1.00	66.95		M	O

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ATOM	20687	OW0	WAT	M	280	-14.853	-28.368	-59.133	1.00	59.46	M	O
ATOM	20690	OW0	WAT	M	281	37.222	-24.247	-19.339	1.00	35.18	M	O
ATOM	20693	OW0	WAT	M	282	-28.062	-11.254	-65.147	1.00	23.28	M	O
ATOM	20696	OW0	WAT	M	283	19.153	-48.870	-54.179	1.00	32.97	M	O
ATOM	20699	OW0	WAT	M	284	18.096	-46.750	-51.008	1.00	35.77	M	O
ATOM	20702	OW0	WAT	M	285	39.696	-7.478	-38.142	1.00	37.96	M	O
ATOM	20705	OW0	WAT	M	286	-17.119	-22.318	-60.187	1.00	44.41	M	O
ATOM	20708	OW0	WAT	M	287	28.895	-39.266	-81.605	1.00	34.39	M	O
ATOM	20711	OW0	WAT	M	288	44.164	-59.144	-70.482	1.00	26.53	M	O
ATOM	20714	OW0	WAT	M	289	33.107	-40.826	-73.405	1.00	34.79	M	O
ATOM	20717	OW0	WAT	M	291	20.915	-9.083	-58.169	1.00	40.42	M	O
ATOM	20720	OW0	WAT	M	292	42.850	-44.946	-43.707	1.00	44.62	M	O
ATOM	20723	OW0	WAT	M	293	52.787	-12.518	-31.149	1.00	57.81	M	O
ATOM	20726	OW0	WAT	M	294	57.834	-61.205	-15.578	1.00	59.41	M	O
ATOM	20729	OW0	WAT	M	295	44.343	-29.933	-83.442	1.00	39.09	M	O
ATOM	20732	OW0	WAT	M	296	47.442	-47.618	-24.479	1.00	46.94	M	O
ATOM	20735	OW0	WAT	M	297	-6.527	3.500	-35.886	1.00	58.84	M	O
ATOM	20738	OW0	WAT	M	298	-8.820	0.874	-51.018	1.00	28.32	M	O
ATOM	20741	OW0	WAT	M	299	24.915	-8.214	-28.776	1.00	34.48	M	O
ATOM	20744	OW0	WAT	M	300	24.463	3.357	-27.018	1.00	47.53	M	O
ATOM	20747	OW0	WAT	M	301	35.011	-39.597	-81.067	1.00	30.92	M	O
ATOM	20750	OW0	WAT	M	302	48.350	-30.299	-68.338	1.00	15.67	M	O
ATOM	20753	OW0	WAT	M	303	19.895	-46.110	-32.631	1.00	36.01	M	O
ATOM	20756	OW0	WAT	M	304	-11.105	-14.521	-91.856	1.00	48.66	M	O
ATOM	20759	OW0	WAT	M	305	44.415	-25.440	-63.348	1.00	41.69	M	O
ATOM	20762	OW0	WAT	M	306	67.272	-52.831	-65.409	1.00	41.62	M	O
ATOM	20765	OW0	WAT	M	307	39.866	-7.617	-40.709	1.00	50.17	M	O
ATOM	20768	OW0	WAT	M	308	25.337	-9.638	-55.041	1.00	39.09	M	O
ATOM	20771	OW0	WAT	M	309	21.271	-44.722	-27.408	1.00	29.34	M	O
ATOM	20774	OW0	WAT	M	310	43.969	-66.640	-10.160	1.00	40.77	M	O
ATOM	20777	OW0	WAT	M	311	32.973	-60.518	-28.444	1.00	34.58	M	O
ATOM	20780	OW0	WAT	M	312	51.418	-61.205	-62.864	1.00	38.28	M	O
ATOM	20783	OW0	WAT	M	313	24.400	-41.668	-64.362	1.00	38.88	M	O
ATOM	20786	OW0	WAT	M	314	39.709	-56.452	-55.760	1.00	45.26	M	O
ATOM	20789	OW0	WAT	M	315	45.896	-36.144	-66.896	1.00	5.60	M	O
ATOM	20792	OW0	WAT	M	316	48.670	-42.039	-85.646	1.00	40.07	M	O
ATOM	20795	OW0	WAT	M	317	15.105	-40.504	-52.720	1.00	40.09	M	O
ATOM	20798	OW0	WAT	M	318	26.363	-15.529	-48.335	1.00	18.60	M	O
ATOM	20801	OW0	WAT	M	319	28.102	-45.304	-68.954	1.00	41.18	M	O
ATOM	20804	OW0	WAT	M	320	44.528	-72.016	-82.839	1.00	36.67	M	O
ATOM	20807	OW0	WAT	M	321	18.333	1.791	-23.914	1.00	59.64	M	O
ATOM	20810	OW0	WAT	M	322	-9.923	-17.749	-62.750	1.00	19.99	M	O
ATOM	20813	OW0	WAT	M	323	-22.024	1.433	-69.296	1.00	36.58	M	O
ATOM	20816	OW0	WAT	M	324	5.312	-40.149	-48.462	1.00	31.65	M	O
ATOM	20819	OW0	WAT	M	325	42.368	10.604	-31.303	1.00	44.36	M	O
ATOM	20822	OW0	WAT	M	326	39.484	-0.450	-7.068	1.00	63.90	M	O
ATOM	20825	OW0	WAT	M	327	-18.770	13.635	-73.858	1.00	26.43	M	O
ATOM	20828	OW0	WAT	M	328	40.358	-10.443	-41.286	1.00	44.30	M	O
ATOM	20831	OW0	WAT	M	329	38.631	-49.988	-40.798	1.00	50.18	M	O
ATOM	20834	OW0	WAT	M	330	21.685	-44.260	-36.646	1.00	28.68	M	O
ATOM	20837	OW0	WAT	M	331	-37.942	0.101	-85.721	1.00	60.19	M	O
ATOM	20840	OW0	WAT	M	332	-20.528	3.183	-65.480	1.00	39.04	M	O
ATOM	20843	OW0	WAT	M	333	31.171	-33.221	-40.349	1.00	38.44	M	O
ATOM	20846	OW0	WAT	M	334	38.680	-18.140	-44.714	1.00	32.29	M	O
ATOM	20849	OW0	WAT	M	335	35.258	-52.507	-47.145	1.00	38.35	M	O
ATOM	20852	OW0	WAT	M	336	-20.480	-14.421	-90.069	1.00	36.12	M	O
ATOM	20855	OW0	WAT	M	337	49.267	-20.336	-36.796	1.00	34.45	M	O
ATOM	20858	OW0	WAT	M	338	38.029	-13.235	-48.617	1.00	39.98	M	O
ATOM	20861	OW0	WAT	M	339	54.476	-65.570	-27.666	1.00	36.72	M	O
ATOM	20864	OW0	WAT	M	340	8.519	-26.339	-40.464	1.00	11.85	M	O
ATOM	20867	OW0	WAT	M	341	37.431	-45.522	-65.348	1.00	16.29	M	O
ATOM	20870	OW0	WAT	M	342	42.491	-30.249	-33.808	1.00	47.17	M	O
ATOM	20873	OW0	WAT	M	343	37.345	-10.992	-38.649	1.00	30.59	M	O
ATOM	20876	OW0	WAT	M	344	56.376	-56.621	-87.679	1.00	24.42	M	O
ATOM	20879	OW0	WAT	M	346	56.469	-45.206	-37.553	1.00	42.32	M	O
ATOM	20882	OW0	WAT	M	347	20.328	-49.406	-41.374	1.00	31.43	M	O
ATOM	20885	OW0	WAT	M	348	52.136	-48.707	-96.513	1.00	54.50	M	O
ATOM	20888	OW0	WAT	M	349	71.854	-44.869	-51.089	1.00	46.81	M	O

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ATOM	20891	OW0	WAT	M	350	8.244	1.179	-43.400	1.00	36.23	M	O
ATOM	20894	OW0	WAT	M	351	10.406	-38.596	-43.644	1.00	32.30	M	O
ATOM	20897	OW0	WAT	M	352	39.862	-35.210	-72.512	1.00	26.18	M	O
ATOM	20900	OW0	WAT	M	353	39.058	-28.333	-60.274	1.00	21.96	M	O
ATOM	20903	OW0	WAT	M	354	39.010	-40.814	-6.690	1.00	39.00	M	O
ATOM	20906	OW0	WAT	M	355	44.843	-56.441	-6.414	1.00	56.98	M	O
ATOM	20909	OW0	WAT	M	356	32.041	-41.933	-63.791	1.00	15.02	M	O
ATOM	20912	OW0	WAT	M	357	56.062	-63.330	-85.229	1.00	34.49	M	O
ATOM	20915	OW0	WAT	M	358	35.301	-41.816	-72.218	1.00	26.20	M	O
ATOM	20918	OW0	WAT	M	359	41.794	-30.618	-81.029	1.00	48.94	M	O
ATOM	20921	OW0	WAT	M	360	32.467	-45.574	-70.028	1.00	32.96	M	O
ATOM	20924	OW0	WAT	M	361	43.401	-7.879	-44.871	1.00	32.10	M	O
ATOM	20927	OW0	WAT	M	363	-27.014	-8.244	-69.462	1.00	46.03	M	O
ATOM	20930	OW0	WAT	M	364	-34.582	-11.504	-90.373	1.00	39.81	M	O
ATOM	20933	OW0	WAT	M	365	30.215	-10.601	-48.977	1.00	60.57	M	O
ATOM	20936	OW0	WAT	M	366	-5.847	-27.276	-59.940	1.00	35.20	M	O
ATOM	20939	OW0	WAT	M	367	19.174	-48.472	-57.532	1.00	34.92	M	O
ATOM	20942	OW0	WAT	M	368	-38.776	-2.050	-87.119	1.00	52.58	M	O
ATOM	20945	OW0	WAT	M	369	43.979	-65.925	-61.934	1.00	38.92	M	O
ATOM	20948	OW0	WAT	M	370	40.856	-34.086	-22.140	1.00	49.90	M	O
ATOM	20951	OW0	WAT	M	371	41.164	-73.496	-21.346	1.00	34.37	M	O
ATOM	20954	OW0	WAT	M	372	37.462	-72.181	-110.052	1.00	52.43	M	O
ATOM	20957	OW0	WAT	M	373	14.355	-26.700	-39.247	1.00	13.79	M	O
ATOM	20960	OW0	WAT	M	374	35.795	-12.537	-57.904	1.00	40.83	M	O
ATOM	20963	OW0	WAT	M	375	49.107	-12.435	-31.838	1.00	42.68	M	O
ATOM	20966	OW0	WAT	M	376	50.015	-3.729	-18.360	1.00	58.15	M	O
ATOM	20969	OW0	WAT	M	377	-37.908	-2.270	-82.388	1.00	37.27	M	O
ATOM	20972	OW0	WAT	M	378	0.411	-13.677	-65.747	1.00	29.64	M	O
ATOM	20975	OW0	WAT	M	379	-31.482	-11.249	-79.765	1.00	30.63	M	O
ATOM	20978	OW0	WAT	M	380	-18.858	13.648	-76.463	1.00	22.86	M	O
ATOM	20981	OW0	WAT	M	381	39.572	-60.429	-71.177	1.00	36.53	M	O
ATOM	20984	OW0	WAT	M	382	70.770	-45.988	-48.635	1.00	45.74	M	O
ATOM	20987	OW0	WAT	M	383	35.691	-8.744	-45.545	1.00	61.26	M	O
ATOM	20990	OW0	WAT	M	384	-17.227	9.921	-76.261	1.00	31.77	M	O
ATOM	20993	OW0	WAT	M	385	-3.030	-12.310	-90.631	1.00	61.27	M	O
ATOM	20996	OW0	WAT	M	386	55.227	-61.972	-14.169	1.00	49.61	M	O
ATOM	20999	OW0	WAT	M	387	58.027	-20.402	-13.833	1.00	65.05	M	O
ATOM	21002	OW0	WAT	M	388	62.076	-58.928	-85.518	1.00	34.94	M	O
ATOM	21005	OW0	WAT	M	389	-3.319	-2.971	-62.583	1.00	31.66	M	O
ATOM	21008	OW0	WAT	M	390	14.036	-9.490	-43.872	1.00	19.90	M	O
ATOM	21011	OW0	WAT	M	391	15.011	-11.786	-44.411	1.00	19.55	M	O
ATOM	21014	OW0	WAT	M	392	14.519	-12.647	-46.797	1.00	22.83	M	O
ATOM	21017	OW0	WAT	M	393	15.378	-12.089	-49.994	1.00	22.10	M	O
ATOM	21020	OW0	WAT	M	394	61.287	-35.058	-55.325	1.00	15.07	M	O
ATOM	21023	OW0	WAT	M	395	5.200	-33.405	-36.011	1.00	27.47	M	O
ATOM	21026	OW0	WAT	M	396	27.231	-32.456	-49.693	1.00	13.66	M	O
ATOM	21029	OW0	WAT	M	397	25.641	-34.647	-49.012	1.00	19.67	M	O
ATOM	21032	OW0	WAT	M	398	28.653	-30.471	-50.144	1.00	21.43	M	O
ATOM	21035	OW0	WAT	M	399	7.315	-6.796	-53.179	1.00	22.99	M	O
ATOM	21038	OW0	WAT	M	400	-6.201	-17.176	-78.996	1.00	31.48	M	O
ATOM	21041	OW0	WAT	M	401	45.670	-41.977	-71.767	1.00	25.22	M	O
ATOM	21044	OW0	WAT	M	402	48.028	-40.349	-71.324	1.00	21.73	M	O
ATOM	21047	OW0	WAT	M	403	45.046	-43.142	-69.604	1.00	14.84	M	O
ATOM	21050	OW0	WAT	M	404	26.612	-31.703	-61.308	1.00	17.64	M	O
ATOM	21053	OW0	WAT	M	405	27.341	-34.063	-61.533	1.00	17.54	M	O
ATOM	21056	OW0	WAT	M	406	25.585	-22.442	-57.994	1.00	19.59	M	O
ATOM	21059	OW0	WAT	M	407	55.070	-62.023	-77.592	1.00	17.92	M	O
ATOM	21062	OW0	WAT	M	408	25.232	-39.080	-65.600	1.00	26.50	M	O
ATOM	21065	OW0	WAT	M	409	18.971	-20.317	-31.727	1.00	21.90	M	O
ATOM	21068	OW0	WAT	M	410	-12.546	-2.538	-50.057	1.00	32.25	M	O
ATOM	21071	OW0	WAT	M	411	21.115	-11.807	-57.983	1.00	26.74	M	O
ATOM	21074	OW0	WAT	M	412	9.607	-33.809	-61.795	1.00	24.89	M	O
ATOM	21077	OW0	WAT	M	413	44.485	-29.213	-67.347	1.00	24.33	M	O
ATOM	21080	OW0	WAT	M	414	16.403	-27.709	-62.404	1.00	35.33	M	O
ATOM	21083	OW0	WAT	M	415	7.691	-28.407	-32.028	1.00	43.48	M	O
ATOM	21086	OW0	WAT	M	416	40.079	-58.369	-65.262	1.00	30.98	M	O
ATOM	21089	OW0	WAT	M	417	-9.116	-24.813	-82.829	1.00	20.21	M	O
ATOM	21092	OW0	WAT	M	418	56.996	-38.359	-66.357	1.00	23.16	M	O

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ATOM	21095	OW0	WAT	M	419	29.994	-31.313	-66.722	1.00	23.58		M	O
ATOM	21098	OW0	WAT	M	420	39.737	-50.634	-64.166	1.00	24.65		M	O
ATOM	21101	OW0	WAT	M	421	6.280	-21.556	-54.205	1.00	11.77		M	O
ATOM	21104	OW0	WAT	M	422	62.768	-56.576	-66.528	1.00	29.64		M	O
ATOM	21107	OW0	WAT	M	423	1.947	-34.646	-41.599	1.00	45.06		M	O
ATOM	21110	OW0	WAT	M	424	52.923	-45.625	-71.408	1.00	26.82		M	O
ATOM	21113	OW0	WAT	M	425	-13.647	-7.528	-49.386	1.00	24.31		M	O
ATOM	21116	OW0	WAT	M	426	-26.155	-5.382	-84.106	1.00	25.40		M	O
ATOM	21119	OW0	WAT	M	427	17.752	-32.337	-57.445	1.00	20.30		M	O
ATOM	21122	OW0	WAT	M	428	19.541	-11.451	-42.838	1.00	29.00		M	O
ATOM	21125	OW0	WAT	M	429	21.655	-26.948	-57.734	1.00	14.90		M	O
ATOM	21128	OW0	WAT	M	430	49.503	-13.082	-27.324	1.00	41.39		M	O
ATOM	21131	OW0	WAT	M	431	40.791	-63.010	-78.897	1.00	22.23		M	O
ATOM	21134	OW0	WAT	M	432	-5.460	-13.118	-76.798	1.00	24.38		M	O
ATOM	21137	OW0	WAT	M	433	-2.286	-23.273	-69.959	1.00	30.11		M	O
ATOM	21140	OW0	WAT	M	434	67.030	-57.639	-64.529	1.00	36.51		M	O
ATOM	21143	OW0	WAT	M	435	34.947	-26.298	-39.600	1.00	31.04		M	O
ATOM	21146	OW0	WAT	M	436	-5.663	-9.241	-30.501	1.00	45.59		M	O
ATOM	21149	OW0	WAT	M	437	44.785	-44.930	-59.569	1.00	12.23		M	O
ATOM	21152	OW0	WAT	M	438	1.561	-31.854	-58.890	1.00	21.50		M	O
ATOM	21155	OW0	WAT	M	439	-6.323	-14.848	-84.012	1.00	33.34		M	O
ATOM	21158	OW0	WAT	M	440	-5.276	-25.386	-38.794	1.00	28.28		M	O
ATOM	21161	OW0	WAT	M	441	7.667	-4.051	-26.893	1.00	38.28		M	O
ATOM	21164	OW0	WAT	M	442	51.203	-66.029	-62.070	1.00	34.77		M	O
ATOM	21167	OW0	WAT	M	443	31.607	-15.817	-22.006	1.00	27.23		M	O
ATOM	21170	OW0	WAT	M	444	1.964	-6.256	-60.692	1.00	29.53		M	O
ATOM	21173	OW0	WAT	M	445	22.233	-19.103	-25.109	1.00	33.82		M	O
ATOM	21176	OW0	WAT	M	446	37.209	-2.357	-10.730	1.00	41.78		M	O
ATOM	21179	OW0	WAT	M	447	46.591	-37.495	-56.735	1.00	19.78		M	O
ATOM	21182	OW0	WAT	M	448	47.703	-46.018	-45.948	1.00	24.30		M	O
ATOM	21185	OW0	WAT	M	449	51.062	-58.894	-72.621	1.00	17.19		M	O
ATOM	21188	OW0	WAT	M	450	40.855	-28.256	-53.103	1.00	31.25		M	O
ATOM	21191	OW0	WAT	M	451	37.008	-30.829	-42.263	1.00	32.88		M	O
ATOM	21194	OW0	WAT	M	452	7.222	1.349	-49.011	1.00	33.73		M	O
ATOM	21197	OW0	WAT	M	453	-3.007	-24.678	-49.295	1.00	19.34		M	O
ATOM	21200	OW0	WAT	M	454	33.955	-29.833	-55.991	1.00	17.98		M	O
ATOM	21203	OW0	WAT	M	455	-22.530	-7.961	-78.047	1.00	20.93		M	O
ATOM	21206	OW0	WAT	M	456	-15.322	-20.501	-85.131	1.00	23.76		M	O
ATOM	21209	OW0	WAT	M	457	12.064	-35.182	-58.437	1.00	33.09		M	O
ATOM	21212	OW0	WAT	M	458	44.454	-31.611	-58.219	1.00	22.83		M	O
ATOM	21215	OW0	WAT	M	459	-13.526	-12.979	-72.662	1.00	19.48		M	O
ATOM	21218	OW0	WAT	M	460	27.934	-33.264	-65.550	1.00	27.93		M	O
ATOM	21221	OW0	WAT	M	461	35.926	-26.819	-64.730	1.00	27.45		M	O
ATOM	21224	OW0	WAT	M	462	49.400	-38.267	-48.737	1.00	22.50		M	O
ATOM	21227	OW0	WAT	M	463	50.809	-58.201	-81.883	1.00	22.25		M	O
ATOM	21230	OW0	WAT	M	464	5.666	-4.676	-51.349	1.00	20.41		M	O
ATOM	21233	OW0	WAT	M	465	37.647	-28.230	-71.211	1.00	22.21		M	O
ATOM	21236	OW0	WAT	M	466	42.830	-27.621	-41.931	1.00	41.22		M	O
ATOM	21239	OW0	WAT	M	467	50.315	-34.663	-12.566	1.00	39.94		M	O
ATOM	21242	OW0	WAT	M	468	17.559	-35.999	-41.770	1.00	37.09		M	O
ATOM	21245	OW0	WAT	M	469	21.691	-41.946	-23.375	1.00	43.11		M	O
ATOM	21248	OW0	WAT	M	470	65.462	-51.424	-49.700	1.00	27.34		M	O
ATOM	21251	OW0	WAT	M	471	17.199	-17.238	-61.379	1.00	27.38		M	O
ATOM	21254	OW0	WAT	M	472	53.087	-48.284	-77.979	1.00	21.86		M	O
ATOM	21257	OW0	WAT	M	473	39.726	-10.594	-33.090	1.00	52.53		M	O
ATOM	21260	OW0	WAT	M	474	37.294	-46.529	-95.772	1.00	28.76		M	O
ATOM	21263	OW0	WAT	M	475	59.737	-60.396	-56.210	1.00	21.00		M	O
ATOM	21266	OW0	WAT	M	476	7.565	-11.135	-47.722	1.00	18.49		M	O
ATOM	21269	OW0	WAT	M	477	1.651	-29.812	-40.989	1.00	32.76		M	O
ATOM	21272	OW0	WAT	M	478	67.211	-36.121	-46.233	1.00	35.11		M	O
ATOM	21275	OW0	WAT	M	479	-26.374	-18.269	-69.912	1.00	26.49		M	O
ATOM	21278	OW0	WAT	M	480	-8.780	-3.341	-49.781	1.00	27.70		M	O
ATOM	21281	OW0	WAT	M	481	51.874	-34.322	-58.440	1.00	20.09		M	O
ATOM	21284	OW0	WAT	M	482	38.147	-15.991	-51.696	1.00	32.80		M	O
ATOM	21287	OW0	WAT	M	483	12.425	-5.343	-38.083	1.00	26.36		M	O
ATOM	21290	OW0	WAT	M	484	-14.141	-19.902	-74.173	1.00	16.76		M	O
ATOM	21293	OW0	WAT	M	485	52.620	-29.946	-65.436	1.00	33.33		M	O
ATOM	21296	OW0	WAT	M	486	-8.957	-30.148	-77.690	1.00	33.33		M	O

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ATOM	21299	OW0	WAT	M	487	-15.731	-14.002	-86.167	1.00	29.57		M	O
ATOM	21302	OW0	WAT	M	488	29.641	-54.046	-41.106	1.00	40.87		M	O
ATOM	21305	OW0	WAT	M	489	36.590	-20.413	-56.724	1.00	32.47		M	O
ATOM	21308	OW0	WAT	M	490	31.344	-15.311	-18.596	1.00	32.99		M	O
ATOM	21311	OW0	WAT	M	491	-8.534	-14.349	-37.230	1.00	33.63		M	O
ATOM	21314	OW0	WAT	M	492	37.563	-18.055	-54.283	1.00	34.70		M	O
ATOM	21317	OW0	WAT	M	493	54.050	-54.095	-45.905	1.00	18.25		M	O
ATOM	21320	OW0	WAT	M	494	0.194	-21.826	-50.992	1.00	19.06		M	O
ATOM	21323	OW0	WAT	M	495	16.544	-29.256	-36.778	1.00	32.90		M	O
ATOM	21326	OW0	WAT	M	496	13.020	-25.079	-33.142	1.00	26.97		M	O
ATOM	21329	OW0	WAT	M	497	-9.519	-18.166	-78.763	1.00	31.87		M	O
ATOM	21332	OW0	WAT	M	498	-21.864	-21.244	-93.001	1.00	43.69		M	O
ATOM	21335	OW0	WAT	M	499	38.932	-24.963	-57.225	1.00	43.58		M	O
ATOM	21338	OW0	WAT	M	500	34.759	-27.089	-56.474	1.00	39.59		M	O
ATOM	21341	OW0	WAT	M	501	51.735	-60.894	-83.751	1.00	27.64		M	O
ATOM	21344	OW0	WAT	M	502	-13.102	-14.088	-75.358	1.00	20.49		M	O
ATOM	21347	OW0	WAT	M	503	37.801	-77.159	-93.534	1.00	38.06		M	O
ATOM	21350	OW0	WAT	M	504	19.011	-20.908	-59.429	1.00	22.73		M	O
ATOM	21353	OW0	WAT	M	505	39.614	-61.775	-66.340	1.00	44.31		M	O
ATOM	21356	OW0	WAT	M	506	61.743	-44.056	-64.619	1.00	24.08		M	O
ATOM	21359	OW0	WAT	M	507	-10.196	-24.430	-55.639	1.00	42.83		M	O
ATOM	21362	OW0	WAT	M	508	-15.417	-5.380	-49.844	1.00	29.79		M	O
ATOM	21365	OW0	WAT	M	509	-2.906	-31.915	-41.544	1.00	39.27		M	O
ATOM	21368	OW0	WAT	M	510	54.255	-61.202	-68.808	1.00	36.67		M	O
ATOM	21371	OW0	WAT	M	511	52.102	-3.937	-24.151	1.00	53.19		M	O
ATOM	21374	OW0	WAT	M	512	70.152	-41.675	-51.096	1.00	26.14		M	O
ATOM	21377	OW0	WAT	M	513	12.121	-8.573	-30.014	1.00	30.41		M	O
ATOM	21380	OW0	WAT	M	514	5.663	-26.999	-39.943	1.00	29.78		M	O
ATOM	21383	OW0	WAT	M	515	45.412	-61.583	-16.631	1.00	32.81		M	O
ATOM	21386	OW0	WAT	M	516	46.521	-50.242	-45.864	1.00	29.76		M	O
ATOM	21389	OW0	WAT	M	517	29.945	-21.983	-36.901	1.00	23.78		M	O
ATOM	21392	OW0	WAT	M	518	-21.479	-26.460	-73.199	1.00	28.51		M	O
ATOM	21395	OW0	WAT	M	519	-8.472	-11.698	-34.975	1.00	39.60		M	O
ATOM	21398	OW0	WAT	M	520	-20.027	-10.165	-79.638	1.00	21.53		M	O
ATOM	21401	OW0	WAT	M	521	14.644	-33.226	-59.242	1.00	25.56		M	O
ATOM	21404	OW0	WAT	M	522	57.444	-56.105	-84.829	1.00	31.11		M	O
ATOM	21407	OW0	WAT	M	523	11.389	-6.247	-41.845	1.00	28.82		M	O
ATOM	21410	OW0	WAT	M	524	43.355	-38.733	-21.227	1.00	31.35		M	O
ATOM	21413	OW0	WAT	M	525	6.801	-1.519	-38.913	1.00	33.33		M	O
ATOM	21416	OW0	WAT	M	526	-4.348	-13.735	-30.142	1.00	42.57		M	O
ATOM	21419	OW0	WAT	M	527	43.786	-37.403	-51.764	1.00	21.10		M	O
ATOM	21422	OW0	WAT	M	528	41.585	-34.782	-88.114	1.00	33.93		M	O
ATOM	21425	OW0	WAT	M	529	46.671	-22.711	-2.830	1.00	31.60		M	O
ATOM	21428	OW0	WAT	M	530	17.851	-19.184	-24.467	1.00	36.02		M	O
ATOM	21431	OW0	WAT	M	531	49.300	-15.784	-27.255	1.00	37.19		M	O
ATOM	21434	OW0	WAT	M	532	14.537	-7.715	-39.740	1.00	34.92		M	O
ATOM	21437	OW0	WAT	M	533	26.029	-20.696	-59.771	1.00	27.11		M	O
ATOM	21440	OW0	WAT	M	534	36.163	-26.017	-28.426	1.00	35.10		M	O
ATOM	21443	OW0	WAT	M	535	-4.814	4.588	-82.163	1.00	37.10		M	O
ATOM	21446	OW0	WAT	M	536	17.502	-9.988	-35.729	1.00	39.42		M	O
ATOM	21449	OW0	WAT	M	537	25.623	-21.910	-38.629	1.00	27.75		M	O
ATOM	21452	OW0	WAT	M	538	57.726	-66.521	-58.305	1.00	39.28		M	O
ATOM	21455	OW0	WAT	M	539	13.149	-13.874	-22.983	1.00	29.22		M	O
ATOM	21458	OW0	WAT	M	540	-4.238	-21.492	-63.608	1.00	20.38		M	O
ATOM	21461	OW0	WAT	M	541	40.304	-23.398	-5.002	1.00	38.81		M	O
ATOM	21464	OW0	WAT	M	542	9.114	-32.600	-42.057	1.00	25.99		M	O
ATOM	21467	OW0	WAT	M	543	36.196	-53.182	-95.103	1.00	23.10		M	O
ATOM	21470	OW0	WAT	M	544	15.628	-26.173	-55.259	1.00	23.22		M	O
ATOM	21473	OW0	WAT	M	545	62.385	-59.098	-56.148	1.00	32.00		M	O
ATOM	21476	OW0	WAT	M	546	20.218	-21.832	-37.784	1.00	25.77		M	O
ATOM	21479	OW0	WAT	M	547	19.204	-10.029	-38.770	1.00	35.96		M	O
ATOM	21482	OW0	WAT	M	548	17.827	-35.204	-48.552	1.00	17.13		M	O
ATOM	21485	OW0	WAT	M	549	13.345	-11.635	-51.778	1.00	26.69		M	O
ATOM	21488	OW0	WAT	M	550	56.671	-56.713	-78.477	1.00	19.48		M	O
ATOM	21491	OW0	WAT	M	551	-7.793	-15.891	-34.975	1.00	34.04		M	O
ATOM	21494	OW0	WAT	M	552	-5.155	-22.116	-80.280	1.00	26.48		M	O
ATOM	21497	OW0	WAT	M	553	0.445	-6.248	-53.997	1.00	24.89		M	O
ATOM	21500	OW0	WAT	M	554	-11.479	-16.352	-50.937	1.00	30.55		M	O

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ATOM	21503	OW0	WAT	M	555	32.236	-26.577	-63.276	1.00	39.16	M	O
ATOM	21506	OW0	WAT	M	556	45.738	-61.897	-67.607	1.00	28.05	M	O
ATOM	21509	OW0	WAT	M	557	49.185	-43.993	-44.216	1.00	33.16	M	O
ATOM	21512	OW0	WAT	M	558	-12.334	-16.697	-84.837	1.00	36.26	M	O
ATOM	21515	OW0	WAT	M	559	28.500	-19.665	-60.873	1.00	33.82	M	O
ATOM	21518	OW0	WAT	M	560	46.449	-37.509	-25.730	1.00	32.43	M	O
ATOM	21521	OW0	WAT	M	561	1.349	-7.396	-27.787	1.00	41.01	M	O
ATOM	21524	OW0	WAT	M	562	-4.947	-23.771	-32.636	1.00	49.08	M	O
ATOM	21527	OW0	WAT	M	563	38.455	-25.525	-53.315	1.00	25.69	M	O
ATOM	21530	OW0	WAT	M	564	7.839	-32.766	-34.964	1.00	42.94	M	O
ATOM	21533	OW0	WAT	M	565	55.225	-58.929	-46.898	1.00	28.56	M	O
ATOM	21536	OW0	WAT	M	566	54.139	-39.498	-22.877	1.00	35.47	M	O
ATOM	21539	OW0	WAT	M	567	28.312	-21.090	-30.345	1.00	36.90	M	O
ATOM	21542	OW0	WAT	M	568	-14.094	-4.209	-57.103	1.00	17.73	M	O
ATOM	21545	OW0	WAT	M	569	48.822	-35.906	-61.013	1.00	28.34	M	O
ATOM	21548	OW0	WAT	M	570	36.997	-34.164	-72.752	1.00	17.70	M	O
ATOM	21551	OW0	WAT	M	571	31.142	-22.381	-32.871	1.00	31.88	M	O
ATOM	21554	OW0	WAT	M	572	6.066	-33.997	-33.843	1.00	36.12	M	O
ATOM	21557	OW0	WAT	M	573	-6.868	-6.501	-68.030	1.00	21.80	M	O
ATOM	21560	OW0	WAT	M	574	61.385	-31.023	-46.441	1.00	40.57	M	O
ATOM	21563	OW0	WAT	M	575	51.881	-62.118	-55.572	1.00	30.33	M	O
ATOM	21566	OW0	WAT	M	576	-24.465	-15.192	-73.229	1.00	23.04	M	O
ATOM	21569	OW0	WAT	M	577	27.180	-3.327	-12.434	1.00	37.93	M	O
ATOM	21572	OW0	WAT	M	578	17.746	-37.508	-47.314	1.00	26.99	M	O
ATOM	21575	OW0	WAT	M	579	-24.323	1.666	-85.718	1.00	35.44	M	O
ATOM	21578	OW0	WAT	M	580	18.344	-32.521	-37.368	1.00	33.91	M	O
ATOM	21581	OW0	WAT	M	581	45.070	-65.115	-66.786	1.00	47.02	M	O
ATOM	21584	OW0	WAT	M	582	37.099	-26.589	-25.718	1.00	43.44	M	O
ATOM	21587	OW0	WAT	M	583	28.564	-36.192	-17.960	1.00	39.91	M	O
ATOM	21590	OW0	WAT	M	584	42.836	-37.758	-94.545	1.00	24.48	M	O
ATOM	21593	OW0	WAT	M	585	57.195	-38.132	-39.975	1.00	39.28	M	O
ATOM	21596	OW0	WAT	M	586	6.017	-28.445	-37.538	1.00	31.36	M	O
ATOM	21599	OW0	WAT	M	587	54.387	-60.834	-98.425	1.00	38.27	M	O
ATOM	21602	OW0	WAT	M	588	0.926	-8.799	-43.833	1.00	22.75	M	O
ATOM	21605	OW0	WAT	M	589	15.375	-38.583	-42.065	1.00	47.58	M	O
ATOM	21608	OW0	WAT	M	590	7.535	-35.906	-58.561	1.00	22.77	M	O
ATOM	21611	OW0	WAT	M	591	45.538	-8.783	-9.739	1.00	38.32	M	O
ATOM	21614	OW0	WAT	M	592	62.506	-32.178	-41.581	1.00	41.88	M	O
ATOM	21617	OW0	WAT	M	593	59.638	-43.057	-69.886	1.00	30.16	M	O
ATOM	21620	OW0	WAT	M	594	32.646	-55.714	-112.456	1.00	47.72	M	O
ATOM	21623	OW0	WAT	M	595	30.783	-54.896	-16.393	1.00	44.19	M	O
ATOM	21626	OW0	WAT	M	596	-27.349	3.594	-73.874	1.00	45.04	M	O
ATOM	21629	OW0	WAT	M	597	48.454	-46.729	-0.339	1.00	40.47	M	O
ATOM	21632	OW0	WAT	M	598	46.099	-36.095	-54.587	1.00	36.54	M	O
ATOM	21635	OW0	WAT	M	599	-6.437	-18.281	-46.462	1.00	29.79	M	O
ATOM	21638	OW0	WAT	M	600	45.360	-36.857	-16.481	1.00	41.28	M	O
ATOM	21641	OW0	WAT	M	601	64.881	-39.115	-36.379	1.00	39.58	M	O
ATOM	21644	OW0	WAT	M	602	28.236	-22.600	-39.847	1.00	23.66	M	O
ATOM	21647	OW0	WAT	M	603	21.512	-18.921	-59.664	1.00	25.27	M	O
ATOM	21650	OW0	WAT	M	604	25.225	-39.077	-58.403	1.00	24.98	M	O
ATOM	21653	OW0	WAT	M	605	5.542	-32.281	-60.611	1.00	13.32	M	O
ATOM	21656	OW0	WAT	M	606	7.921	-19.603	-44.866	1.00	16.24	M	O
ATOM	21659	OW0	WAT	M	607	55.141	-37.873	-44.225	1.00	37.35	M	O
ATOM	21662	OW0	WAT	M	608	53.834	-47.240	-75.787	1.00	23.84	M	O
ATOM	21665	OW0	WAT	M	609	19.088	-12.646	-59.463	1.00	37.74	M	O
ATOM	21668	OW0	WAT	M	610	33.510	-63.261	-79.622	1.00	33.30	M	O
ATOM	21671	OW0	WAT	M	611	20.804	-22.349	-35.012	1.00	42.20	M	O
ATOM	21674	OW0	WAT	M	612	-9.682	-20.622	-40.682	1.00	46.33	M	O
ATOM	21677	OW0	WAT	M	613	20.633	-27.659	-38.330	1.00	23.48	M	O
ATOM	21680	OW0	WAT	M	614	52.090	-33.590	-49.955	1.00	32.56	M	O
ATOM	21683	OW0	WAT	M	615	50.716	-35.162	-54.657	1.00	24.70	M	O
ATOM	21686	OW0	WAT	M	616	38.651	-26.505	-61.576	1.00	43.71	M	O
ATOM	21689	OW0	WAT	M	617	43.425	-33.910	-71.567	1.00	31.18	M	O
ATOM	21692	OW0	WAT	M	618	36.830	-48.731	-110.446	1.00	41.19	M	O
ATOM	21695	OW0	WAT	M	619	34.901	-0.219	-13.019	1.00	47.34	M	O
ATOM	21698	OW0	WAT	M	620	-19.858	6.404	-77.003	1.00	25.52	M	O
ATOM	21701	OW0	WAT	M	621	38.510	-60.264	-73.506	1.00	26.78	M	O
ATOM	21704	OW0	WAT	M	622	31.515	-33.670	-71.980	1.00	36.81	M	O

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ATOM	21707	OW0	WAT	M	623	-2.291	5.433	-62.832	1.00	43.39	M	O
ATOM	21710	OW0	WAT	M	624	35.919	-21.498	-59.571	1.00	37.73	M	O
ATOM	21713	OW0	WAT	M	625	50.245	-70.023	-79.904	1.00	29.35	M	O
ATOM	21716	OW0	WAT	M	626	4.528	-37.803	-55.213	1.00	31.92	M	O
ATOM	21719	OW0	WAT	M	627	43.201	-9.310	-8.097	1.00	38.20	M	O
ATOM	21722	OW0	WAT	M	628	14.513	-7.179	-46.801	1.00	48.11	M	O
ATOM	21725	OW0	WAT	M	629	42.831	-21.277	-45.455	1.00	38.65	M	O
ATOM	21728	OW0	WAT	M	630	19.335	-26.966	-63.218	1.00	31.13	M	O
ATOM	21731	OW0	WAT	M	631	14.637	-25.627	-60.097	1.00	32.38	M	O
ATOM	21734	OW0	WAT	M	632	-15.363	-11.871	-88.260	1.00	43.98	M	O
ATOM	21737	OW0	WAT	M	633	35.124	-31.692	-10.109	1.00	49.70	M	O
ATOM	21740	OW0	WAT	M	634	44.882	-44.216	-78.940	1.00	37.79	M	O
ATOM	21743	OW0	WAT	M	635	14.634	-28.510	-34.754	1.00	33.96	M	O
ATOM	21746	OW0	WAT	M	636	48.609	-35.633	-70.127	1.00	31.76	M	O
ATOM	21749	OW0	WAT	M	637	-9.408	-23.846	-40.155	1.00	37.29	M	O
ATOM	21752	OW0	WAT	M	638	39.385	-70.055	-19.671	1.00	47.36	M	O
ATOM	21755	OW0	WAT	M	639	30.746	-37.701	-35.300	1.00	35.56	M	O
ATOM	21758	OW0	WAT	M	640	-2.150	-10.812	-86.771	1.00	42.84	M	O
ATOM	21761	OW0	WAT	M	641	19.433	-32.368	-40.075	1.00	41.76	M	O
ATOM	21764	OW0	WAT	M	642	19.891	-22.107	-21.302	1.00	38.58	M	O
ATOM	21767	OW0	WAT	M	643	37.115	-37.030	-27.830	1.00	46.24	M	O
ATOM	21770	OW0	WAT	M	644	52.913	-63.067	-65.939	1.00	25.87	M	O
ATOM	21773	OW0	WAT	M	645	40.293	-42.193	-95.322	1.00	37.86	M	O
ATOM	21776	OW0	WAT	M	646	54.474	-41.636	-38.276	1.00	38.74	M	O
ATOM	21779	OW0	WAT	M	647	1.335	-19.986	-14.091	1.00	35.23	M	O
ATOM	21782	OW0	WAT	M	648	-12.155	-6.692	-56.221	1.00	22.59	M	O
ATOM	21785	OW0	WAT	M	649	38.499	-28.994	-52.228	1.00	22.08	M	O
ATOM	21788	OW0	WAT	M	650	45.513	-67.734	-31.020	1.00	40.40	M	O
ATOM	21791	OW0	WAT	M	651	16.342	-16.722	-21.425	1.00	36.04	M	O
ATOM	21794	OW0	WAT	M	652	62.974	-54.787	-53.130	1.00	35.00	M	O
ATOM	21797	OW0	WAT	M	653	52.375	-39.690	-20.717	1.00	38.20	M	O
ATOM	21800	OW0	WAT	M	654	39.076	-39.672	-92.978	1.00	38.59	M	O
ATOM	21803	OW0	WAT	M	655	-14.652	-22.356	-53.130	1.00	41.80	M	O
ATOM	21806	OW0	WAT	M	656	-4.040	-4.791	-65.073	1.00	32.05	M	O
ATOM	21809	OW0	WAT	M	657	27.312	-47.134	-24.462	1.00	32.55	M	O
ATOM	21812	OW0	WAT	M	658	-8.891	-6.337	-37.347	1.00	34.84	M	O
ATOM	21815	OW0	WAT	M	659	-6.078	-11.420	-27.412	1.00	51.65	M	O
ATOM	21818	OW0	WAT	M	660	40.763	-60.900	-34.090	1.00	29.14	M	O
ATOM	21821	OW0	WAT	M	661	44.902	-41.309	-74.105	1.00	38.79	M	O
ATOM	21824	OW0	WAT	M	662	29.171	-26.084	-64.063	1.00	43.74	M	O
ATOM	21827	OW0	WAT	M	663	1.457	-3.041	-50.847	1.00	29.18	M	O
ATOM	21830	OW0	WAT	M	664	28.422	-15.382	-42.820	1.00	29.07	M	O
ATOM	21833	OW0	WAT	M	665	18.165	-24.793	-62.438	1.00	33.16	M	O
ATOM	21836	OW0	WAT	M	666	-10.548	-1.067	-88.149	1.00	42.65	M	O
ATOM	21839	OW0	WAT	M	667	46.417	-44.587	-25.146	1.00	39.73	M	O
ATOM	21842	OW0	WAT	M	668	32.085	-24.050	-59.896	1.00	38.93	M	O
ATOM	21845	OW0	WAT	M	669	3.190	-19.906	-67.640	1.00	32.41	M	O
ATOM	21848	OW0	WAT	M	670	4.786	-28.297	-42.151	1.00	26.69	M	O
ATOM	21851	OW0	WAT	M	671	52.183	-29.282	-33.856	1.00	46.68	M	O
ATOM	21854	OW0	WAT	M	672	33.581	-28.589	-70.543	1.00	48.01	M	O
ATOM	21857	OW0	WAT	M	673	43.184	-40.665	-31.328	1.00	45.82	M	O
ATOM	21860	OW0	WAT	M	674	26.221	-52.908	-47.071	1.00	44.78	M	O
ATOM	21863	OW0	WAT	M	675	7.081	-15.497	-58.152	1.00	23.77	M	O
ATOM	21866	OW0	WAT	M	676	21.531	-45.630	-56.306	1.00	32.55	M	O
ATOM	21869	OW0	WAT	M	677	6.718	-7.925	-64.684	1.00	43.17	M	O
ATOM	21872	OW0	WAT	M	678	26.137	-53.752	-94.947	1.00	48.96	M	O
ATOM	21875	OW0	WAT	M	679	24.795	-66.885	-81.157	1.00	46.82	M	O
ATOM	21878	OW0	WAT	M	680	24.044	2.209	-30.937	1.00	42.71	M	O
ATOM	21881	OW0	WAT	M	681	46.209	-53.015	-45.876	1.00	33.78	M	O
ATOM	21884	OW0	WAT	M	682	50.584	-44.354	-41.859	1.00	31.07	M	O
ATOM	21887	OW0	WAT	M	683	15.148	-18.815	-63.079	1.00	40.32	M	O
ATOM	21890	OW0	WAT	M	684	48.153	-37.977	-5.462	1.00	39.95	M	O
ATOM	21893	OW0	WAT	M	685	43.529	-70.864	-109.066	1.00	44.18	M	O
ATOM	21896	OW0	WAT	M	686	-12.728	-17.789	-52.847	1.00	38.23	M	O
ATOM	21899	OW0	WAT	M	687	-20.142	-24.800	-77.260	1.00	32.57	M	O
ATOM	21902	OW0	WAT	M	688	5.921	-37.660	-57.379	1.00	32.62	M	O
ATOM	21905	OW0	WAT	M	689	-1.176	-13.135	-36.244	1.00	30.51	M	O
ATOM	21908	OW0	WAT	M	690	-0.746	-4.677	-52.203	1.00	34.78	M	O

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ATOM	21911	OW0	WAT	M	691	3.922	-29.806	-37.725	1.00	31.87	M	O
ATOM	21914	OW0	WAT	M	692	2.342	-10.270	-23.464	1.00	38.48	M	O
ATOM	21917	OW0	WAT	M	693	22.542	-37.042	-56.547	1.00	41.05	M	O
ATOM	21920	OW0	WAT	M	694	34.910	-55.867	-17.411	1.00	49.07	M	O
ATOM	21923	OW0	WAT	M	695	13.890	-28.735	-37.148	1.00	33.09	M	O
ATOM	21926	OW0	WAT	M	696	27.251	-30.046	-58.684	1.00	34.81	M	O
ATOM	21929	OW0	WAT	M	697	36.882	-26.949	-36.537	1.00	36.91	M	O
ATOM	21932	OW0	WAT	M	698	1.892	-29.337	-45.934	1.00	22.82	M	O
ATOM	21935	OW0	WAT	M	699	-17.464	-1.207	-55.183	1.00	27.37	M	O
ATOM	21938	OW0	WAT	M	700	-1.013	-28.711	-54.666	1.00	34.87	M	O
ATOM	21941	OW0	WAT	M	701	25.729	-32.891	-37.422	1.00	48.18	M	O
ATOM	21944	OW0	WAT	M	702	60.263	-56.219	-43.744	1.00	33.86	M	O
ATOM	21947	OW0	WAT	M	703	-12.920	10.746	-76.312	1.00	47.36	M	O
ATOM	21950	OW0	WAT	M	704	46.925	-35.206	-63.315	1.00	17.21	M	O
ATOM	21953	OW0	WAT	M	705	17.453	-7.166	-24.119	1.00	30.97	M	O
ATOM	21956	OW0	WAT	M	706	36.886	-15.576	-34.272	1.00	31.04	M	O
ATOM	21959	OW0	WAT	M	707	57.586	-50.288	-60.808	1.00	25.26	M	O
ATOM	21962	OW0	WAT	M	708	34.358	-15.982	-34.503	1.00	39.20	M	O
ATOM	21965	OW0	WAT	M	709	54.755	-32.288	-67.318	1.00	40.61	M	O
ATOM	21968	OW0	WAT	M	710	-4.387	-26.723	-45.137	1.00	35.97	M	O
ATOM	21971	OW0	WAT	M	711	-20.749	2.349	-60.414	1.00	39.68	M	O
ATOM	21974	OW0	WAT	M	712	27.022	-52.533	-40.504	1.00	34.52	M	O
ATOM	21977	OW0	WAT	M	713	64.748	-64.693	-62.247	1.00	39.99	M	O
ATOM	21980	OW0	WAT	M	714	-6.071	-19.611	-78.971	1.00	46.26	M	O
ATOM	21983	OW0	WAT	M	715	54.924	-58.627	-89.284	1.00	36.41	M	O
ATOM	21986	OW0	WAT	M	716	59.775	-41.273	-67.407	1.00	30.17	M	O
ATOM	21989	OW0	WAT	M	717	-8.688	-22.361	-57.341	1.00	35.16	M	O
ATOM	21992	OW0	WAT	M	718	5.245	-3.116	-28.594	1.00	42.41	M	O
ATOM	21995	OW0	WAT	M	719	51.058	-55.705	-63.989	1.00	25.83	M	O
ATOM	21998	OW0	WAT	M	720	23.388	-18.650	-61.155	1.00	35.34	M	O
ATOM	22001	OW0	WAT	M	721	3.648	-4.753	-58.357	1.00	37.00	M	O
ATOM	22004	OW0	WAT	M	722	32.426	-61.361	-81.156	1.00	50.30	M	O
ATOM	22007	OW0	WAT	M	723	51.955	-31.585	-51.498	1.00	44.97	M	O
ATOM	22010	OW0	WAT	M	724	32.422	-18.234	-20.292	1.00	43.39	M	O
ATOM	22013	OW0	WAT	M	725	37.827	-32.062	-50.333	1.00	28.25	M	O
ATOM	22016	OW0	WAT	M	726	-18.103	-0.294	-89.287	1.00	42.39	M	O
ATOM	22019	OW0	WAT	M	727	33.595	-45.859	-86.332	1.00	48.15	M	O
ATOM	22022	OW0	WAT	M	728	38.983	9.672	-28.984	1.00	40.03	M	O
ATOM	22025	OW0	WAT	M	729	17.680	-10.006	-60.365	1.00	40.57	M	O
ATOM	22028	OW0	WAT	M	730	6.674	-28.466	-19.692	1.00	41.65	M	O
ATOM	22031	OW0	WAT	M	731	-19.453	-25.192	-65.498	1.00	41.34	M	O
ATOM	22034	OW0	WAT	M	732	23.218	-34.571	-50.204	1.00	39.73	M	O
ATOM	22037	OW0	WAT	M	733	34.378	-46.906	-7.851	1.00	42.45	M	O
ATOM	22040	OW0	WAT	M	734	31.748	0.101	-6.654	1.00	48.04	M	O
ATOM	22043	OW0	WAT	M	735	44.905	-68.353	-55.921	1.00	49.97	M	O
ATOM	22046	OW0	WAT	M	736	48.265	-67.318	-97.369	1.00	34.18	M	O
ATOM	22049	OW0	WAT	M	737	16.966	-36.913	-58.133	1.00	28.81	M	O
ATOM	22052	OW0	WAT	M	738	-14.859	-18.321	-87.173	1.00	46.91	M	O
ATOM	22055	OW0	WAT	M	739	51.974	-25.382	-20.345	1.00	49.17	M	O
ATOM	22058	OW0	WAT	M	740	55.446	-59.384	-22.995	1.00	37.86	M	O
ATOM	22061	OW0	WAT	M	741	65.128	-60.926	-57.253	1.00	43.53	M	O
ATOM	22064	OW0	WAT	M	742	45.079	-33.503	-53.965	1.00	50.30	M	O
ATOM	22067	OW0	WAT	M	743	50.242	-44.293	-99.217	1.00	51.56	M	O
ATOM	22070	OW0	WAT	M	744	-21.127	-11.325	-51.972	1.00	40.76	M	O
ATOM	22073	OW0	WAT	M	745	52.213	-16.771	-22.803	1.00	61.98	M	O
ATOM	22076	OW0	WAT	M	746	52.595	-62.102	-101.082	1.00	43.57	M	O
ATOM	22079	OW0	WAT	M	747	32.239	-35.429	-35.182	1.00	51.23	M	O
ATOM	22082	OW0	WAT	M	748	62.992	-63.211	-56.501	1.00	41.67	M	O
ATOM	22085	OW0	WAT	M	749	-7.339	-22.246	-32.208	1.00	50.36	M	O
ATOM	22088	OW0	WAT	M	750	-0.808	-8.784	-88.953	1.00	44.06	M	O
ATOM	22091	OW0	WAT	M	751	-21.203	-8.813	-89.672	1.00	45.63	M	O
ATOM	22094	OW0	WAT	M	752	45.649	-36.372	-23.030	1.00	42.44	M	O
ATOM	22097	OW0	WAT	M	753	46.788	-26.317	-41.901	1.00	40.85	M	O
ATOM	22100	OW0	WAT	M	754	48.950	-34.559	-49.015	1.00	39.56	M	O
ATOM	22103	OW0	WAT	M	755	63.373	-33.479	-43.706	1.00	36.57	M	O
ATOM	22106	OW0	WAT	M	756	30.730	-36.860	-32.965	1.00	27.57	M	O
ATOM	22109	OW0	WAT	M	757	46.289	-43.113	-76.599	1.00	32.10	M	O
ATOM	22112	OW0	WAT	M	758	54.388	-30.480	-53.157	1.00	30.81	M	O

cyno fD_Fab

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ATOM  22115  OW0 WAT M 759      43.356 -23.340 -47.218  1.00 39.40       M    O
ATOM  22118  OW0 WAT M 760      45.715 -32.684 -70.007  1.00 27.61       M    O
ATOM  22121  OW0 WAT M 761     -22.557 -10.203 -53.653  1.00 39.09       M    O
ATOM  22124  OW0 WAT M 762      65.337 -55.843 -53.702  1.00 37.26       M    O
ATOM  22127  OW0 WAT M 763      40.294 -23.114 -58.663  1.00 39.90       M    O
ATOM  22130  OW0 WAT M 764      53.373 -27.068 -34.959  1.00 40.35       M    O
ATOM  22133  OW0 WAT M 765      28.400 -53.712 -48.283  1.00 32.10       M    O
ATOM  22136  OW0 WAT M 766      -3.884 -27.771 -42.084  1.00 26.03       M    O
ATOM  22139  OW0 WAT M 767      52.056 -33.006 -66.187  1.00 29.01       M    O
ATOM  22142  OW0 WAT M 768      36.229 -25.960 -59.736  1.00 41.91       M    O
ATOM  22145  OW0 WAT M 769      20.706 -30.334 -37.784  1.00 34.66       M    O
ATOM  22148  OW0 WAT M 770      61.654 -44.976 -68.888  1.00 30.76       M    O
ATOM  22151  OW0 WAT M 771       4.448 -38.169 -59.293  1.00 27.82       M    O
ATOM  22154  OW0 WAT M 772     -19.573 -10.767 -89.289  1.00 37.80       M    O
ATOM  22157  OW0 WAT M 773     -21.484   4.628 -58.633  1.00 35.60       M    O
ATOM  22160  OW0 WAT M 774      48.013 -37.385 -28.624  1.00 47.68       M    O
ATOM  22163  OW0 WAT M 775     -15.638 -22.543 -50.591  1.00 36.58       M    O
ATOM  22166  OW0 WAT M 776      63.285 -62.674 -53.815  1.00 37.68       M    O
ATOM  22169  OW0 WAT M 777      53.648 -43.870 -39.244  1.00 34.20       M    O
ATOM  22172  OW0 WAT M 778       7.770  -2.192 -30.734  1.00 41.71       M    O
ATOM  22175  OW0 WAT M 779      21.452 -36.791 -59.817  1.00 37.22       M    O
ATOM  22178  OW0 WAT M 780      11.899 -25.661 -61.109  1.00 27.38       M    O
ATOM  22181  OW0 WAT M 781      65.611 -62.263 -60.299  1.00 46.88       M    O
ATOM  22184  OW0 WAT M 782       8.628  -7.004 -63.181  1.00 40.81       M    O
ATOM  22187  OW0 WAT M 783      50.283 -67.804 -99.034  1.00 39.81       M    O
ATOM  22190  OW0 WAT M 784      -5.974 -14.094 -65.902  1.00 33.51       M    O
ATOM  22193  OW0 WAT M 785      -4.442 -19.990 -70.765  1.00 26.82       M    O
ATOM  22196  OW0 WAT M 786      25.811 -56.592 -83.676  1.00 45.11       M    O
END
```

Claims:

1. A crystal formed by a native sequence Factor D polypeptide or a functional fragment or conservative amino acid substitution variant thereof.

2. The crystal of claim 1 wherein the native sequence Factor D polypeptide is human or cynomolgous Factor D.

3. The crystal of claim 2 wherein the native sequence Factor D polypeptide is human Factor D of SEQ ID NO: 1.

4. The crystal of claim 3 characterized by unit cell parameters approximately equal to the following: cell dimensions a=132.048, b=132.048; c=180.288, space group $P4_32_12$, crystal constant: 2.4Å, and R/Rfree=21.2%/27.2.

5. The crystal of claim 2 wherein the native sequence Factor D polypeptide is cynomolgous Factor D of SEQ ID NO: 2.

6. The crystal of claim 5 characterized by unit cell parameters approximately equal to the following: a=182.205; b=80.673; c=142.575; space group C2, crystal constant: 2.1Å; and R/Rfree=21.1%/26.9.

7. A composition comprising a crystal of claim 1, claim 4 or claim 6.

8. A crystallizable composition comprising a Factor D polypeptide complexed with an anti-Factor D antibody or an antigen binding fragment of said antibody.

9. The crystallizable composition of claim 8, wherein said anti-Factor D antibody is a monoclonal antibody.

10. The crystallizable composition of claim 9 wherein said fragment is a Fab fragment.

11. The crystallizable composition of claim 9, wherein said Factor D polypeptide is human Factor D of SEQ ID NO: 1.

12. The crystallizable composition of claim 11 having the structure coordinates set forth in Appendix 1A.

13. The crystallizable composition of claim 9, wherein said Factor D polypeptide is cynomolgous Factor D of SEQ ID NO: 2.

14. The crystallizable composition of claim 13 having the structure coordinates set forth in Appendix 1B.

15. The crystallizable composition of claim 8 wherein said Factor D polypeptide comprises a catalytic triad.

16. A crystal comprising a Factor D polypeptide complexed with an anti-Factor D antibody or an antigen binding fragment thereof.

17. The crystal of claim 16 wherein said antibody is a monoclonal antibody.

18. The crystal of claim 17 wherein said fragment is a Fab fragment.

19. The crystal of claim 17 wherein the Factor D polypeptide is human Factor D of SEQ ID NO: 1.

20. The crystal of claim 19 having the structure coordinates of Appendix 1A.

21. The crystal of claim 17 wherein the Factor D polypeptide is cynomolgous Factor D of SEQ ID NO: 2.

22. The crystal of claim 21 having the structure coordinates of Appendix 1B.

23. The crystal of claim 16 wherein said Factor D polypeptide comprises a catalytic triad.

24. The crystal of claim 19 wherein in the human Factor D polypeptide of SEQ ID NO: 1, or antigen binding fragment thereof, one or more of amino acid residues D131, V132, P134, D165, R166, A167, T168, N170, R171, R172, T173, D176, G177, I179, E181, R222, and K223 participate in complexing with said anti-Factor D antibody.

25. The crystal of claim 24 wherein in the human Factor D polypeptide of SEQ ID NO: 1, or antigen binding fragment thereof, all of amino acid residues D131, V132, P134, D165, R166, A167, T168, N170, R171, R172, T173, D176, G177, I179, E181, R222, and K223 participate in complexing with said anti-Factor D antibody.

26. The crystal of claim 19 wherein in the human Factor D polypeptide of SEQ ID NO: 1, or antigen binding fragment thereof, amino acid residue R172 forms hydrogen bonds with the heavy and light chains of said anti-Factor D antibody of antigen binding fragment thereof.

27. A computer for producing a three-dimensional representation of: a molecular complex comprising a binding site defined by structure coordinates of amino acid residues D131, V132, P134, D165, R166, A167, T168, N170, R171, R172, T173, D176, G177, I179, E181, R222, and K223 of human Factor D of SEQ ID NO: 1, wherein said computer comprises: (i) a machine-readable data storage medium comprising a data storage material encoded with machine-readable data, wherein said data comprises the structure coordinates of amino acid residues D131, V132, P134, D165, R166, A167, T168, N170, R171, R172, T173, D176, G177, I179, E181, R222, and K223 of human Factor D of SEQ ID NO: 1, and (ii) instructions for processing said machine-readable data into said three-dimensional representation.

28. The computer of claim 27, further comprising a display for displaying said structure coordinates.

29. A method for evaluating the potential of a chemical entity to associate with a molecular complex comprising a binding site defined by structure coordinates of amino acid residues D131, V132, P134, D165, R166, A167, T168, N170, R171, R172, T173, D176, G177, I179, E181, R222, and K223 of human Factor D of SEQ ID NO: 1, comprising the steps of: (i) employing computational means to perform a fitting operation between the chemical entity and said binding site of the molecular complex; and (ii) analyzing the results of said fitting operation to quantify the association between the chemical entity and said binding site.

30. The method of claim 29 wherein said chemical entity is an antibody or an antigen binding fragment thereof, or a peptide or small molecule mimetic of said antibody or antibody fragment.

31. The method of claim 30 wherein said antibody, or antigen binding fragment thereof, forms hydrogen bonds with one or more of said residues.

32. The method of claim 31 wherein said antibody, or antigen binding fragment thereof, forms hydrogen bonds with amino acid residue R172 of human Factor D of SEQ ID NO: 1.

33. A chemical entity identifiable by any of the methods of claims 29 to 32.

34. A computer for determining at least a portion of the structure coordinates corresponding to an X-ray diffraction pattern of a molecular complex, wherein said computer comprises: a) a machine-readable data storage medium comprising a data storage material encoded with machine-readable data, wherein said data comprises at least a portion of the structure coordinates according Figures 6 and 7 or Appendix 1a or 1b; b) a machine-readable data storage medium comprising a data storage material encoded with machine-readable data, wherein said data comprises an X-ray diffraction pattern of said molecular complex; c) a working memory for storing instructions for processing said machine-readable data of a) and b); d) a central processing unit coupled to said working memory and to said machine-readable data of a) and b) for performing a Fourier transform of the machine readable data of (a) and for processing said machine readable data of (b) into structure coordinates; and e) a display coupled to said central processing unit for displaying said structure coordinates of said molecular complex.

Factor D in complex with anti-factor D
Factor D (green)
Anti fD Light chain (yellow)
Anti fD Heavy chain (orange)
Cyno fD
C2
2.1Å
R/Rfree =21.1%/26.9
Human fD
$P4_32_12$
2.4Å
R/Rfree =21.2%/27.2

Fig. 1

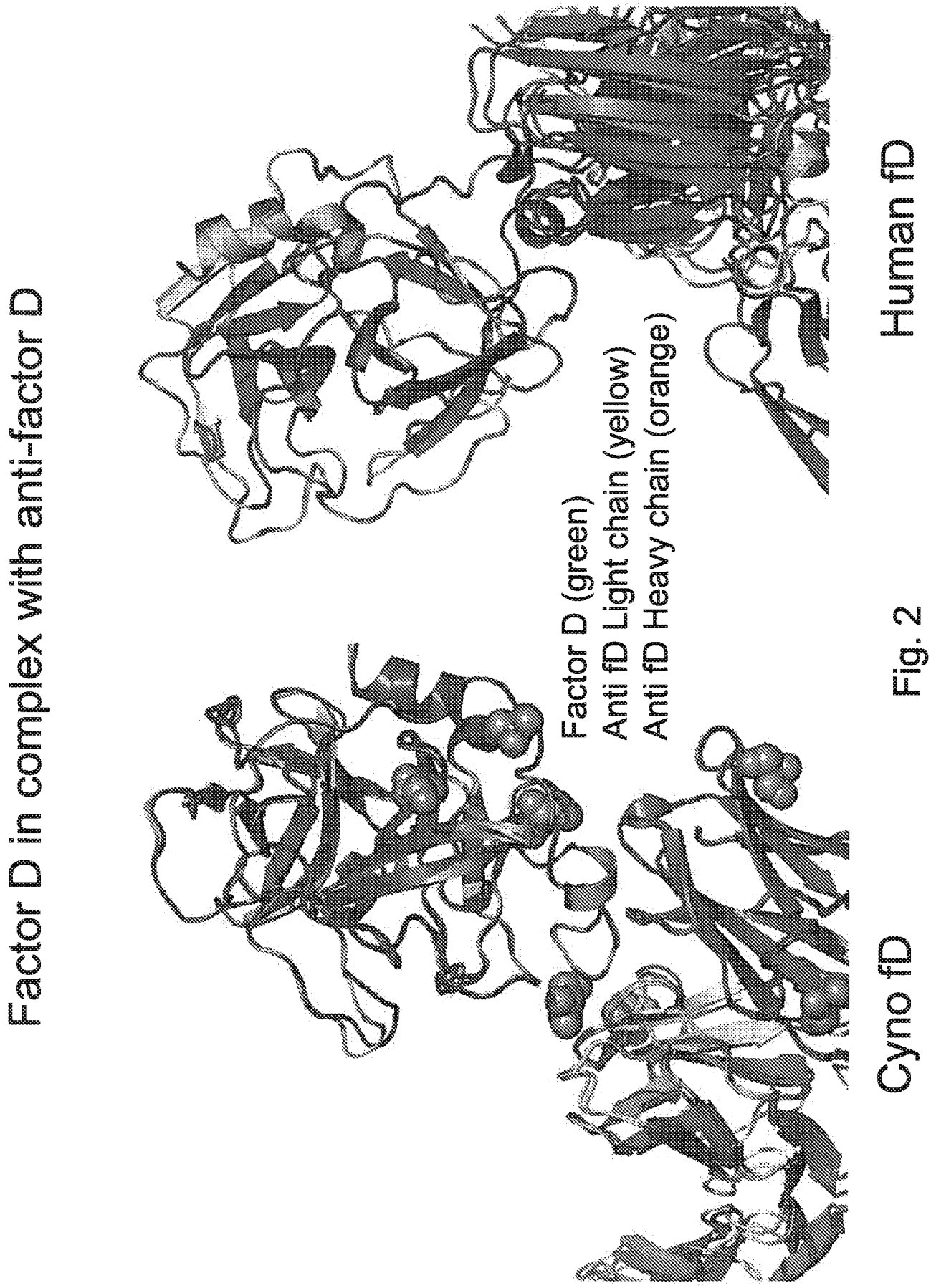

Factor D in complex with anti-factor D
Factor D (green)
Anti fD Light chain (yellow)
Anti fD Heavy chain (orange)
Cyno fD
Human fD

Fig. 2

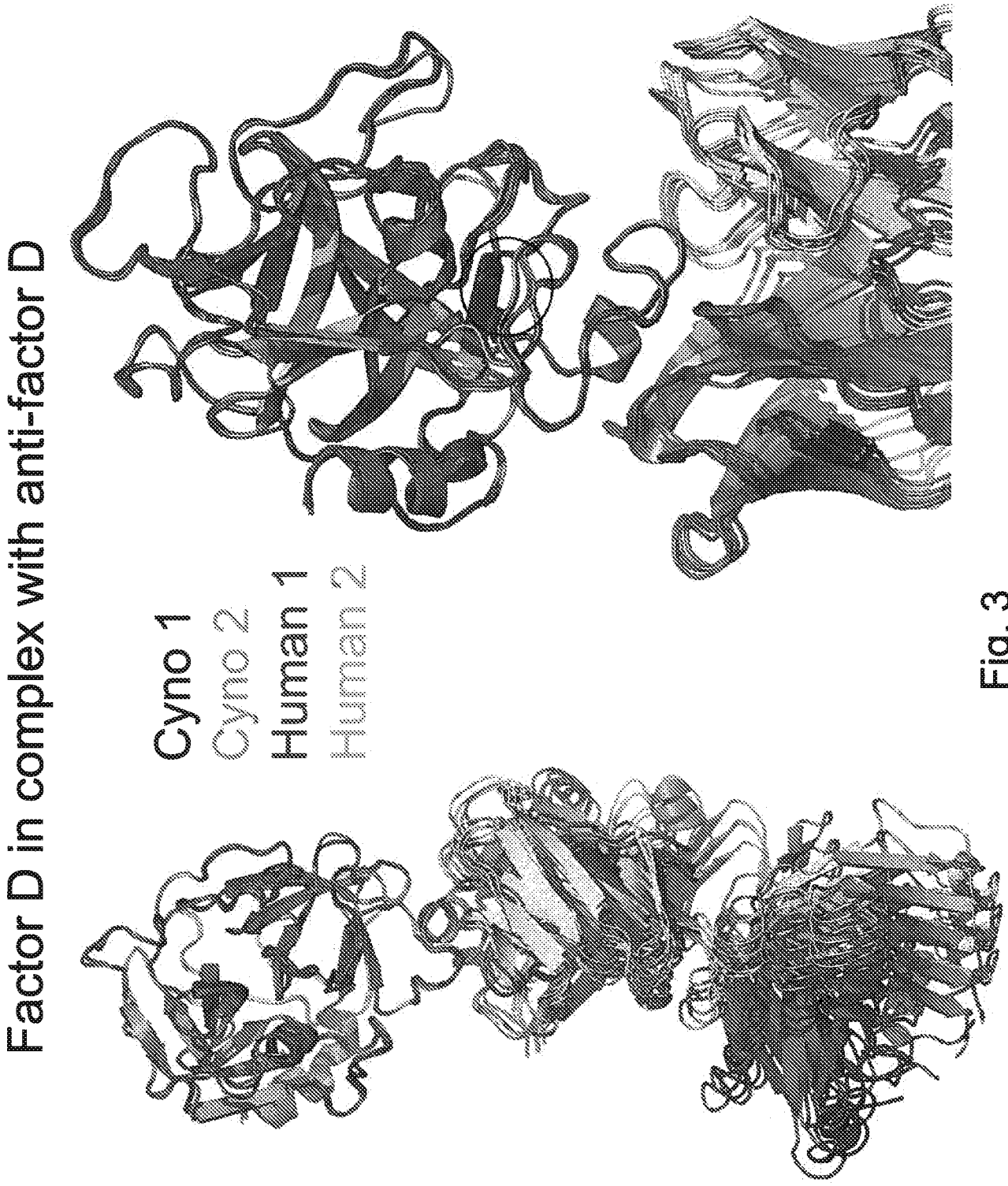

Factor D in complex with anti-factor D
Cyno 1
Cyno 2
Human 1
Human 2

Fig. 3

Factor D in complex with anti-factor D
Ser
Asp
HIS
Catalytic Triad
Binding Interface
Cyno 1
Cyno 2
Human 1
Human 2

Fig. 4

Short-list of residues on factor D (human) that interact with residues on the anti factor D Fab

D131
V132
P134
D165
R166
A167
T168
N170
R171
R172
T173
D176
G177
I179
E181
R222
K223

Fig. 5

Residues on factor D that form interactions with the light- and heavy chain of the anti factor D Fab

source atoms	target atoms	distance	angle
Asp 131A CB	... Tyr 54H CZ	... 4.45	
	... Tyr 54H OH	... 3.16	
Asp 131A CG	... Tyr 54H CE1	... 4.50	
	... Tyr 54H CZ	... 4.42	
	... Tyr 54H OH	... 3.41	
Asp 131A OD2	... Tyr 54H CE1	... 3.34	
	... Tyr 54H CZ	... 3.49	
	... Tyr 54H OH	... 2.78 ***	
Val 132A O	... Tyr 54H OH	... 4.41 *	
Pro 134A CB	... Thr 55H CG2	... 4.40	
Pro 134A CG	... Tyr 54H CE2	... 3.65	
	... Tyr 54H CD2	... 4.11	
	... Thr 55H CG2	... 4.04	
	... Tyr 54H CZ	... 4.49	
Pro 134A CD	... Tyr 54H CE2	... 3.91	
	... Tyr 54H OH	... 4.42	
Asp 165A CB	... Tyr 54H CB	... 4.35	
	... Tyr 54H CG	... 4.02	
	... Tyr 54H CE2	... 4.35	
	... Tyr 54H CD2	... 3.92	
	... Thr 55H CG2	... 3.71	
Asp 165A CG	... Asn 52H CG	... 4.11	
	... Asn 52H OD1	... 4.00	
	... Tyr 54H CB	... 4.28	
	... Tyr 54H CG	... 4.48	
	... Thr 55H CG2	... 3.58	
	... Asn 52H ND2	... 3.37	
Asp 165A OD1	... Asn 52H CG	... 4.22	
	... Asn 52H OD1	... 4.46 *	
	... Thr 55H CG2	... 3.86	
	... Asn 52H ND2	... 3.19 ***	
Asp 165A OD2	... Asn 52H CG	... 3.36	
	... Asn 52H OD1	... 3.06 ***	
	... Tyr 54H CB	... 3.44	
	... Tyr 54H CG	... 3.98	
	... Tyr 54H CD2	... 4.44	
	... Thr 55H CG2	... 3.84	
	... Asn 52H ND2	... 2.86 ***	

source atoms	target atoms	distance	angle
Arg 166A N	... Tyr 54H CD1	... 4.27	
Arg 166A CB	... Tyr 54H CD1	... 4.44	
Arg 166A CG	... Asn 31H CG	... 4.39	
	... Asn 31H OD1	... 4.02	
	... Asn 31H O	... 4.50	
Arg 166A CD	... Asn 31H CG	... 3.83	
	... Asn 31H OD1	... 3.35	
	... Asn 31H ND2	... 4.23	
Arg 166A NE	... Asn 31H OD1	... 4.49 *	
Arg 166A NH1	... Tyr 54H CE1	... 4.11	
	... Asn 31H OD1	... 4.32 *	
Arg 166A C	... Asn 31H O	... 3.98	
Arg 166A O	... Asn 31H O	... 3.64 *	
Ala 167A N	... Tyr 54H CB	... 4.47	
	... Thr 30H O	... 4.05 *	
	... Asn 31H C	... 4.42	
	... Asn 31H O	... 3.86 *	
Ala 167A CA	... Thr 30H O	... 4.09	
	... Asn 31H C	... 3.90	
	... Asn 31H O	... 3.35	
	... Tyr 32H N	... 4.39	
Ala 167A CB	... Asn 52H CG	... 3.92	
	... Asn 52H OD1	... 3.40	
	... Tyr 54H CB	... 3.91	
	... Asn 52H ND2	... 4.09	
	... Thr 53H N	... 4.45	
	... Thr 30H O	... 3.59	
	... Thr 53H OG1	... 4.06	
	... Tyr 54H N	... 4.19	
	... Asn 31H C	... 4.16	
	... Asn 31H O	... 4.04	
	... Tyr 32H N	... 4.27	
	... Tyr 32H C	... 4.22	
	... Gly 33H N	... 4.03	
	... Tyr 32H CA	... 4.44	
Ala 167A C	... Trp 50H CH2	... 4.14	
	... Asn 31H O	... 4.27	
Ala 167A O	... Trp 50H CH2	... 4.03	
	... Asn 31H O	... 4.18 *	

source atoms	target atoms	distance	angle
Thr 168A N	... Asn 52H ND2	... 3.70 *	
	... Trp 50H CH2	... 4.18	
Thr 168A CA	... Asn 52H ND2	... 4.18	
	... Trp 50H CH2	... 4.16	
	... Trp 50H CZ2	... 4.42	
Thr 168A CB	... Asn 52H ND2	... 3.98	
Thr 168A OG1	... Asn 52H CG	... 4.05	
	... Asn 52H ND2	... 2.75 ***	
	... Trp 50H CZ2	... 4.21	
Asn 170A CB	... Asn 31H C	... 4.46	
	... Asn 31H O	... 3.27	
Asn 170A CG	... Asn 31H O	... 3.68	
Asn 170A ND2	... Asn 31H CA	... 4.39	
	... Asn 31H C	... 4.07	
	... Asn 31H O	... 3.13 ***	
	... Asn 31H CB	... 4.16	
Asn 170A C	... Glu 99H O	... 4.39	
Asn 170A O	... Glu 99H C	... 4.38	
	... Glu 99H O	... 3.82 *	
	... Gly 100H N	... 4.21 *	
	... Gly 100H CA	... 3.65	
Arg 171A CA	... Glu 99H CG	... 4.10	
	... Glu 99H O	... 4.37	
	... Glu 99H CD	... 4.42	
	... Glu 99H OE2	... 3.74	
Arg 171A CB	... Tyr 96L OH	... 3.89	
	... Glu 99H CG	... 4.30	
	... Glu 99H OE2	... 3.85	
Arg 171A CG	... Trp 50H CZ3	... 3.69	
	... Trp 50H CH2	... 3.63	
	... Trp 50H CZ2	... 4.46	
	... Tyr 96L OH	... 4.40	
	... Glu 99H CG	... 4.26	
Arg 171A CD	... Trp 50H CE2	... 4.37	
	... Trp 50H CD2	... 4.31	
	... Trp 50H CE3	... 3.83	
	... Trp 50H CZ3	... 3.36	
	... Trp 50H CH2	... 3.47	
	... Trp 50H CZ2	... 3.99	
	... Leu 94L CD2	... 4.36	
	... Tyr 96L OH	... 3.69	

source atoms	target atoms	distance	angle
Arg 171A NE	... Leu 94L CD1	... 4.35	
	... Leu 94L CG	... 4.20	
	... Leu 94L CD2	... 4.01	
	... Tyr 96L CZ	... 4.39	
	... Tyr 96L OH	... 3.47 *	
Arg 171A CZ	... Leu 94L CD1	... 3.82	
	... Leu 94L CG	... 3.83	
	... Leu 94L CD2	... 4.14	
Arg 171A NH1	... Leu 94L CD1	... 4.25	
	... Leu 94L CG	... 3.96	
	... Leu 94L CD2	... 4.48	
Arg 171A NH2	... Leu 94L CD1	... 3.45	
	... Trp 50H CZ2	... 4.26	
	... Leu 94L CG	... 3.99	
Arg 171A C	... Glu 99H OE2	... 3.73	
Arg 172A N	... Tyr 96L OH	... 4.15 *	
	... Glu 99H CG	... 4.42	
	... Glu 99H CD	... 3.90	
	... Glu 99H OE2	... 2.82 ***	
	... Gly 100H N	... 4.29 *	
	... Gly 100H CA	... 4.48	
Arg 172A CA	... Glu 99H OE2	... 3.73	
Arg 172A CB	... Glu 99H OE2	... 3.53	
Arg 172A CG	... Tyr 96L CZ	... 4.49	
	... Tyr 96L OH	... 4.02	
	... Glu 99H CD	... 4.46	
	... Glu 99H OE2	... 3.43	
	... Ser 91L CB	... 3.94	
	... Ser 91L OG	... 3.51	
Arg 172A CD	... Tyr 96L CE2	... 4.48	
	... Glu 99H OE2	... 3.91	
	... Asn 34L CG	... 4.06	
	... Asn 34L OD1	... 3.52	
	... Asn 34L ND2	... 4.04	
	... Ser 91L CB	... 3.76	
	... Ser 91L OG	... 3.49	
Arg 172A NE	... Tyr 96L CE2	... 4.14	
	... Glu 99H CD	... 3.68	
	... Glu 99H OE1	... 3.31 *	
	... Glu 99H OE2	... 3.32 *	
	... Asn 34L OD1	... 4.39 *	

Fig. 6a

WO 2011/057014 PCT/US2010/055509

Residues on factor D that form interactions with the light- and heavy chain of the anti factor D Fab

source atoms	target atoms	distance	angle
Arg 172A CZ	... Leu 89L CD2	... 4.37	
	... Glu 99H CD	... 4.35	
	... Glu 99H OE1	... 3.61	
	... Glu 99H OE2	... 4.31	
	... Asn 34L OD1	... 4.37	
	... Tyr 36L OH	... 3.42	
	... Glu 97H OE2	... 4.10	
Arg 172A NH1	... Leu 89L CD2	... 3.77	
	... Asn 34L CG	... 3.66	
	... Asn 34L OD1	... 3.46 *	
	... Asn 34L ND2	... 4.15 *	
	... Tyr 36L CZ	... 3.78	
	... Tyr 36L CE2	... 4.09	
	... Tyr 36L OH	... 2.81 ***	
	... Leu 46L CD2	... 4.09	
	... Glu 97H OE2	... 4.31 *	
	... Asn 34L CB	... 4.17	
	... Leu 46L CD1	... 3.95	
Arg 172A NH2	... Asn 35H ND2	... 4.16 *	
	... Glu 97H OE1	... 3.47 *	
	... Glu 99H CD	... 4.06	
	... Glu 99H OE1	... 3.09 ***	
	... Glu 99H OE2	... 4.41 *	
	... Glu 97H CD	... 3.45	
	... Tyr 36L OH	... 3.17 ***	
	... Glu 97H OE2	... 3.02 ***	
	... Asn 109H OD1	... 3.67 *	
Thr 173A N	... Tyr 96L OH	... 4.27 *	
Thr 173A CA	... Ser 91L O	... 4.06	
Thr 173A CB	... Tyr 96L OH	... 4.43	
	... Ser 91L O	... 3.30	
Thr 173A OG1	... Tyr 96L CE1	... 3.69	
	... Tyr 96L CZ	... 3.83	
	... Tyr 96L OH	... 3.32 *	
	... Ser 91L CA	... 4.30	
	... Ser 91L C	... 3.60	
	... Ser 91L O	... 2.52 ***	
	... Ser 91L CB	... 3.91	
	... Ser 91L OG	... 3.93 *	
Thr 173A CG2	... Ser 91L C	... 4.23	
	... Asp 92L CA	... 4.35	
	... Asp 92L C	... 4.02	
	... Asp 32L CG	... 4.28	
	... Asp 32L OD1	... 4.39	
	... Asp 32L OD2	... 4.24	
	... Ser 91L O	... 3.09	
	... Asp 92L O	... 3.60	

source atoms	target atoms	distance	angle
Asp 176A CA	... Gly 101H N	... 4.46	
Asp 176A CG	... Gly 101H N	... 4.01	
	... Arg 55L NH2	... 4.09	
Asp 176A OD1	... Gly 100H N	... 4.30 *	
	... Gly 100H CA	... 3.37	
	... Gly 100H C	... 3.76	
	... Gly 101H N	... 3.11 ***	
	... Gly 101H CA	... 4.13	
	... Gly 101H O	... 4.25 *	
	... Arg 55L NH2	... 4.13 *	
Asp 176A OD2	... Arg 55L NH1	... 4.38 *	
	... Arg 55L CZ	... 4.13	
	... Arg 55L NH2	... 3.23 ***	
Asp 176A C	... Gly 101H N	... 3.82	
	... Gly 101H CA	... 4.37	
Asp 176A O	... Gly 101H N	... 3.49 *	
	... Gly 101H CA	... 3.67	
Gly 177A N	... Tyr 32H CE1	... 4.29	
	... Gly 101H N	... 4.28 *	
Gly 177A CA	... Tyr 32H CE1	... 3.51	
	... Tyr 32H CZ	... 3.71	
	... Tyr 32H OH	... 3.32	
	... Gly 101H N	... 4.41	
Gly 177A C	... Tyr 32H CZ	... 4.48	
	... Tyr 32H OH	... 3.74	
Gly 177A O	... Tyr 32H CZ	... 4.20	
	... Tyr 32H OH	... 3.25 ***	
Ile 179A O	... Asn 31H ND2	... 4.25 *	
Glu 181A CG	... Asn 31H OD1	... 4.20	
Glu 181A OE1	... Thr 28H CG2	... 4.47	
	... Thr 28H OG1	... 3.85 *	
Glu 181A OE2	... Thr 28H CG2	... 4.38	
Arg 222A CZ	... Asp 92L OD2	... 4.40	
	... Asp 92L O	... 4.13	
Arg 222A NH1	... Ser 93L CB	... 4.45	
	... Asp 92L C	... 4.47	
	... Asp 92L O	... 3.31 *	
Arg 222A NH2	... Asp 92L OD2	... 3.33 *	
	... Asp 92L CG	... 3.89	
	... Asp 92L OD1	... 3.84 *	
	... Asp 92L O	... 4.01 *	
Lys 223A CG	... Asp 32L OD2	... 4.48	
Lys 223A CD	... Asp 30L OD2	... 3.76	
	... Asp 92L OD1	... 4.48	
	... Asp 32L CG	... 4.24	
	... Asp 32L OD2	... 3.12	

source atoms	target atoms	distance	angle
Lys 223A CE	... Asp 92L OD2	... 4.48	
	... Asp 30L CG	... 4.38	
	... Asp 30L OD2	... 3.30	
	... Asp 92L CA	... 4.20	
	... Asp 92L CB	... 4.45	
	... Asp 92L CG	... 3.74	
	... Asp 92L OD1	... 2.94	
	... Asp 92L C	... 4.40	
	... Asp 32L CG	... 4.29	
	... Asp 32L OD2	... 3.13	
	... Asp 92L O	... 3.73	
Lys 223A NZ	... Asp 30L CG	... 3.51	
	... Asp 30L OD2	... 2.72 ***	
	... Asp 92L CA	... 4.07	
	... Asp 92L CB	... 4.08	
	... Asp 92L CG	... 3.60	
	... Asp 92L OD1	... 2.60 ***	
	... Asp 32L CB	... 4.16	
	... Asp 32L CG	... 3.61	
	... Asp 32L OD2	... 2.46 ***	
	... Asp 92L O	... 4.46 *	
	... Ile 29L CA	... 4.25	
	... Ile 29L C	... 3.55	
	... Ile 29L O	... 3.16 ***	
	... Asp 30L N	... 4.06 *	
	... Asp 30L CA	... 4.36	
	... Asp 30L CB	... 3.52	

Fig. 6b

WO 2011/057014 PCT/US2010/055509

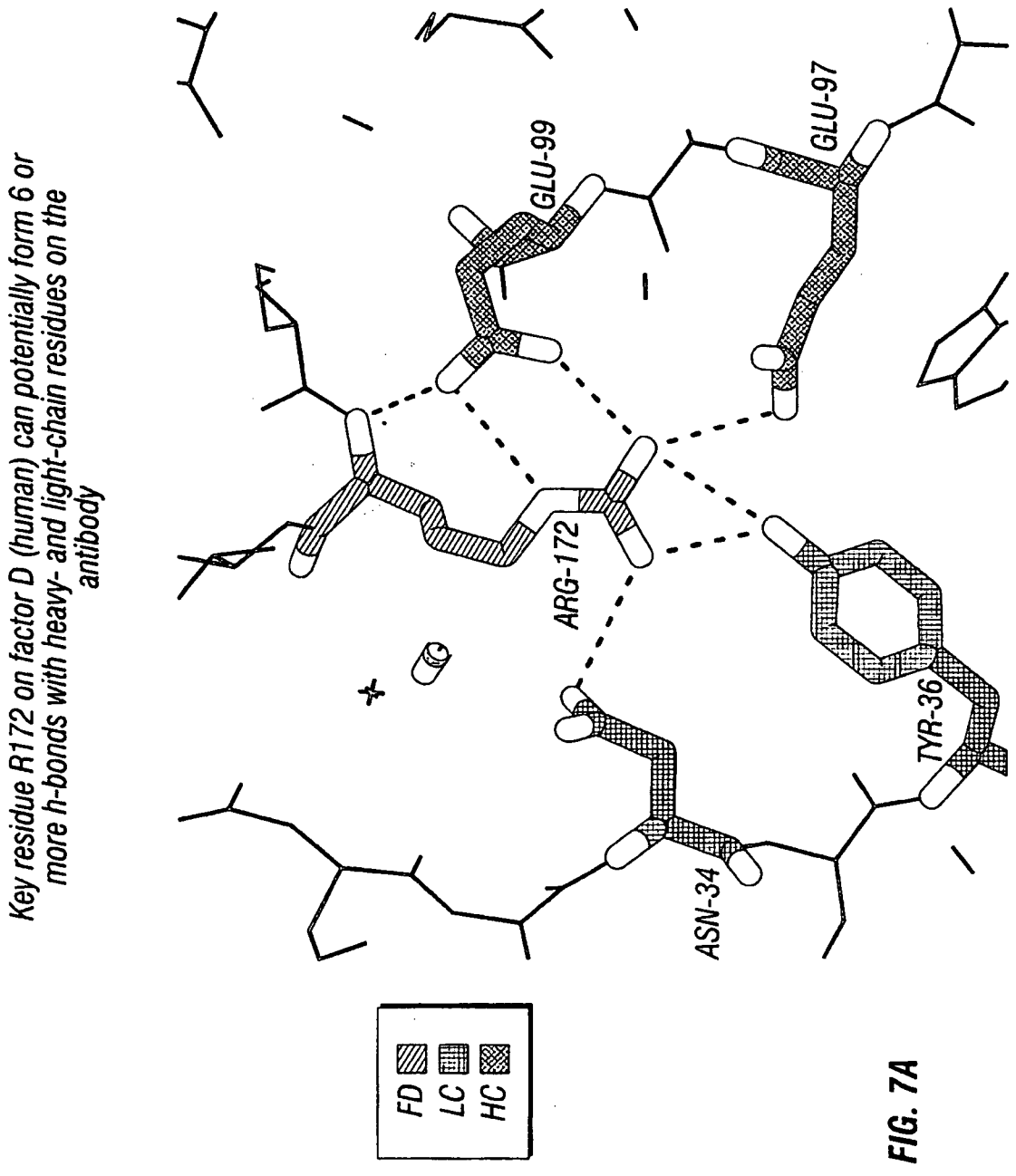

Key residue R172 on factor D (human) can potentially form 6 or more h-bonds with heavy- and light-chain residues on the antibody
GLU-99
GLU-97
ARG-172
TYR-36
ASN-34
FD
LC
HC

FIG. 7A

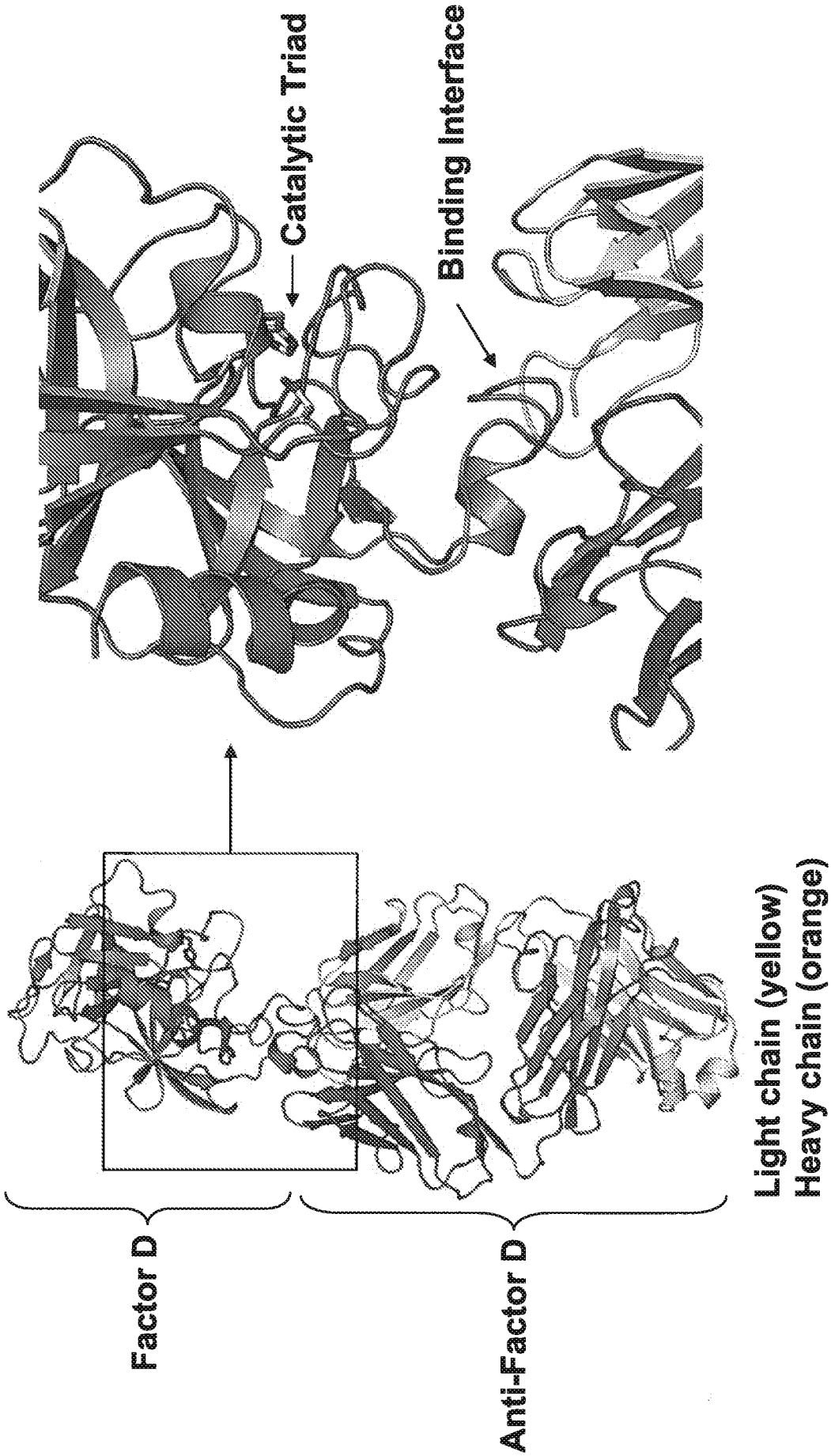

Anti fD Fab binds distant from the catalytic triad
Catalytic Triad
Binding Interface
Factor D
Anti-Factor D
Light chain (yellow)
Heavy chain (orange)

FIGURE 8

```
   1 mhswerlavl vllgaaacaa pprgrilggr eaeaharpym asvqlngahl cggvlvaeqw
  61 vlsaahcled aadgkvqvll gahslsqpep skrlydvlra vphpdsqpdt idhdllllql
 121 sekatlgpav rplpwqrvdr dvapgtlcdv agwgivnhag rrpdslqhvl lpvldratcn
 181 rrthhdgait erlmcaesnr rdsckgdsgg plvcggvleg vvtsgsrvcg nrkkpgiytr
 241 vasyaawids vla (SEQ ID NO: 1)
```

```
   1 gtgtctcagc cacagcggct tcaccatgca cagctgggag cgcctggcag ttctggtcct
  61 cctaggagcg gccgcctgcg cggcgccgcc ccgtggtcgg atcctgggcg gcagagaggc
 121 cgaggcgcac gcgcggccct acatggcgtc ggtgcagctg aacggcgcgc acctgtgcgg
 181 cggcgtcctg gtggcggagc agtgggtgct gagcgcggcg cactgcctgg aggacgcggc
 241 cgacgggaag gtgcaggttc tcctgggcgc gcactccctg tcgcagccgg agccctccaa
 301 gcgcctgtac gacgtgctcc gcgcagtgcc ccacccggac agccagcccg acaccatcga
 361 ccacgacctc ctgctgctac agctgtcgga gaaggccaca ctgggccctg ctgtgcgccc
 421 cctgccctgg cagcgcgtgg accgcgacgt ggcaccggga actctctgcg acgtggccgg
 481 ctggggcata gtcaaccacg cgggccgccg cccggacagc ctgcagcacg tgctcttgcc
 541 agtgctggac cgcgccacct gcaaccggcg cacgcaccac gacggcgcca tcaccgagcg
 601 cttgatgtgc gcggagagca atcgccggga cagctgcaag ggtgactccg ggggcccgct
 661 ggtgtgcggg ggcgtgctcg agggcgtggt cacctcgggc tcgcgcgttt gcggcaaccg
 721 caagaagccc gggatctaca cccgcgtggc gagctatgcg gcctggatcg acagcgtcct
 781 ggcctagggt gccggggcct gaaggtcagg gtcacccaag caacaaagtc ccgagcaatg
 841 aagtcatcca ctcctgcatc tggttggtct ttattgagca cctactatat gcagaagggg
 901 aggccgaggt gggaggatca ttggatctca ggagttcgag atcagcatgg gccacgtagc
 961 gcgactccat ctctacaaat aaataaaaaa ttagctgggc aattggcggg catggaggtg
1021 ggtgcttgta gttccagcta ctcaggaggc tgaggtggga ggatgacttg aacgcaggag
1081 gctgaggctg cagtgagttg tgattgcacc actgccctcc agcctgggca acagagtgaa
1141 accttgtctc tctctacaaa aaaaaaaaaa aaa (SEQ ID NO: 3)
```

FIG. 9

Cyno factor D polypeptide:
MHSWERLAVLVLLGVAACAAQPRGRILGGREAEAHARPYMASVQVNGEHLCGGVLVAEQW
VLSAAHCLEDAADGKVQVLLGAHSLSQPEPSKRLYDVLRAVPHPDSRPDTIDHDLLLLQL
SEKATLGPAVRPLPWQRVDRDVEPGTLCDVAGWGIVSHAGRRPDRLQHVLLPVLDRATCN
RRTHHDGAITQRMMCAESNRRDSCKGDSGGPLVCGGVLEGVVTSGSRVCGNRKKPGIYTR
VASYAAWIDSVLA

Cyno factor D nucleotide:
ATGCACAGCTGGGAGCGCCTGGCAGTTCTGGTCCTCCTGGGAGTGGCCGCCTGCGCGGCGCAG
CCCCGCGGTCGGATCCTGGGCGGCAGAGAGGCCGAGGCCCACGCGCGGCCCTACATGGCGTC
GGTGCAGGTGAACGGCGAGCACCTGTGCGGCGGCGTCCTGGTGGCCGAGCAGTGGGTGCTGA
GCGCGGCGCACTGCCTGGAGGACGCGGCCGACGGGAAGGTGCAGGTTCTCCTGGGCGCGCAC
TCCCTGTCGCAGCCGGAGCCCTCCAAGCGCCTGTACGACGTGCTCCGCGCAGTGCCGCACCCG
GACAGCCGGCCCGACACCATCGACCACGACCTCCTCCTGCTGCAGCTGTCCGAGAAGGCCAC
GCTGGGCCCTGCTGTGCGCCCCCTGCCCTGGCAGCGCGTGGATCGCGACGTGGAGCCGGGCAC
TCTCTGCGACGTGGCCGGCTGGGGCATAGTCAGCCACGCGGGCCGCCGCCCGGACCGCCTGC
AGCACGTGCTCTTGCCAGTGCTGGACCGCGCCACCTGCAACCGGCGCACGCACCACGACGG
CGCCATCACCCAGCGTATGATGTGCGCGGAGAGCAACCGCCGGGACAGCTGCAAAGGCGACT
CCGGGGGCCCGCTGGTGTGCGGGGGCGTGCTCGAGGGCGTGGTCACCTCGGGCTCGCGAGTTT
GCGGCAACCGCAAGAAGCCCGGGATCTACACGCGCGTGGCGAGCTATGCGGCCTGGATCGAC
AGCGTCCTGGCCTAGTCTAGAGTCGACCTGCAGAAGCTTGGCCGCCATGGCCC

FIG. 10

#58 VK
DIQVTQSPSSLSASVRDRVTITCltstdiddmnWYQQKPGKVPKLLISggntlrpGVPSRFSGSGSGTD
FTLTISSLQPEDVATYYClqsdnlpytFGQGTKLEIK

#58 VH
QVQLVQSGPELKKPGASVKVSCKASgytftnygmnWVKQAPGQGLEwmgwintytgeptyaddfkGRFVF
SLDTSVSTAYLQISSLKAEDTATYYCERegavdnWGQGTLVTVSS

#111 VK
DIQVTQSPSSLSASVGDRVTITCltstdiddmnWYQQKPGKVPKLLISggntlrpGVPSRFSGSGSGTD
FTLTISSLQPEDVATYYClqsdslpytFGQGTKLEIK

#111 VH
QVQLVQSGPELKKPGASVKVSCKASgytftnygmnWVRQAPGQGLEwmgwintytgeptyaddfkGRFVF
SLDTSVSTAYLQISSLKAEDTAVYYCERegavnnWGQGTLVTVSS

#250 VK
DIQVTQSPSSLSASVGDRVTITCltstdiddmnWYQQKPGKVPKLLIShgntlrpGVPSRFSGSGSGTD
FTLTISSLQPEDVATYYClqsdslpytFGQGTKLEIK

#250 VH
QVQLVQSGPELKKPGASVKVSCKASgytftnygingWVRQAPGQGLEwmgwintytgeptyaddfkGRFVFS
LDTSVSTAYLQISSLKAEDTAVYYCERegavnnWGQGTLVTVSS

#416 VK
DIQVTQSPSSLSASVGDRVTITCltstdiddmnWYQQKPGKVPKLLISdgntlrpGVPSRFSGSGSGTD
FTLTISSLQPEDVATYYClqsdslpytFGQGTKLEIK

#416 VH
QVQLVQSGPELKKPGASVKVSCKASgytftevgmnWVRQAPGQGLEwmgwintytgeptyaddfkGRFVF
SLDTSVSTAYLQISSLKAEDTAVYYCERegavnnWGQGTLVTVSS

ATGAAGAAGAATATTGCGTTCCTACTTGCCTCTATGTTTGTCTTTTCTATAGCTACAAACGCGTATGCTGAT
ATCCAGGTGACCCAGTCTCCATCCTCCCTGTCTGCATCTGTAGGAGACCGCGTCACCATCACTTGCATTACC
AGCACTGATATTGATGATGATATGAACTGGTATCAGCAGAAACCAGGGAAAGTTCCTAAGCTCCTGATCTCT
GGAGGCAATACTCTTCGTCCTGGGGTCCCATCTCGGTTCAGTGGCAGTGGATCTGGGACAGATTTCACTCTC
ACCATCAGCAGCCTGCAGCCTGAAGATGTTGCAACTTATTACTGTTTGCAAAGTGATTCTTTGCCGTACACG
TTTGGCCAGGGTACCAAGGTGGAGATCAAACGAACTGTGGCTGCACCATCTGTCTTCATCTTCCCGCCATCT
GATGAGCAGTTGAAATCTGGAACTGCTTCTGTTGTGTGCCTGCTGAATAACTTCTATCCCAGAGAGGCCAAA
GTACAGTGGAAGGTGGATAACGCCCTCCAATCGGGTAACTCCCAGGAGAGTGTCACAGAGCAGGACAGCAAG
GACAGCACCTACAGCCTCAGCAGCACCCTGACGCTGAGCAAAGCAGACTACGAGAAACACAAAGTCTACGCC
TGCGAAGTCACCCATCAGGGCCTGAGCTCGCCCGTCACAAAGAGCTTCAACAGGGGAGAGTGTTAA

FIG.11 (SEQ ID NO: 9)

DIQVTQSPSSLSASVGDRVTITC*ITSTDIDDDMN*WYQQKPGKVPKLLIS*GGNTLRP*GVPSRFSGSGSGTDFT
LTISSLQPEDVATYYC*LQSDSLPYT*FGQGTKVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREA
KVQWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC

FR1-LC: DIQVTQSPSSLSASVGDRVTITC (SEQ ID NO: 11)
FR2-LC: WYQQKPGKVPKLLIS (SEQ ID NO: 12)
FR3-LC: GVPSRFSGSGSGTDFTLTISSLQPEDVATYYC (SEQ ID NO: 13)
FR4-LC: FGQGTKVEIK (SEQ ID NO: 14)
HVR1-LC: *ITSTDIDDDMN* (SEQ ID NO:15)
HVR2-LC: *GGNTLRP* (SEQ ID NO: 16)
HVR3-LC: *LQSDSLPYT* (SEQ ID NO: 17)
CL1:
RTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSTYSLSSTL
TLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC (SEQ ID NO: 10)

FIG. 12

ATGAAAAAGAATATCGCATTTCTTCTTGCATCTATGTTCGTTTTTTCTATTGCTACAAACGCGTACGCTCAG
GTCCAGCTGGTGCAATCTGGGCCTGAGTTGAAGAAGCCTGGGGCCTCAGTGAAGGTTTCCTGCAAGGCTTCT
GGATACACCTTCACTAACTATGGAATGAACTGGGTGCGCCAAGCCCCTGGACAAGGGCTTGAGTGGATGGGA
TGGATTAACACCTACACTGGAGAGACAACATATGCTGATGACTTCAAGGGACGGTTTGTCTTCTCCTTGGAC
ACCTCTGTCAGCACGGCATATCTGCAGATCAGCAGCCTCAAGGCTGAGGACACTGCCGTGTATTACTGTGAG
CGCGAGGGGGGGGTTAATAACTGGGGCCAAGGGACCCTGGTCACCGTCTCCTCAGCCTCCACCAAGGGCCCA
TCGGTCTTCCCCCTGGCACCCTCCTCCAAGAGCACCTCTGGGGGCACAGCGGCCCTGGGCTGCCTGGTCAAG
GACTACTTCCCCGAACCGGTGACGGTGTCGTGGAACTCAGGCGCCCTGACCAGCGGCGTGCACACCTTCCCG
GCTGTCCTACAGTCCTCAGGACTCTACTCCCTCAGCAGCGTGGTGACCGTGCCCTCCAGCAGCTTGGGCACC
CAGACCTACATCTGCAACGTGAATCACAAGCCCAGCAACACCAAGGTGGACAAGAAAGTTGAGCCCAAATCT
TGTGACAAAACTCACACATAA

FIG. 13

QVQLVQSGPELKKPGASVKVSCKAS*GYTFTNYGMN*WVRQAPGQGLEWMG*WINTYTGETTYADDFKG*RFVFSL
DTSVSTAYLQISSLKAEDTAVYYCER*EGGVNN*WGQGTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLV
KDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPK
SCDKTHT (SEQ ID NO: 19)

FR1-HC: QVQLVQSGPELKKPGASVKVSCKAS (SEQ ID NO: 20)
FR2-HC: WVRQAPGQGLEWMG (SEQ ID NO: 21)
FR3-HC: RFVFSLDTSVSTAYLQISSLKAEDTAVYYCER (SEQ ID NO: 22)
FR4-HC: WGQGTLVTVSS (SEQ ID NO: 23)
HVR1-HC: *GYTFTNYGMN* (SEQ ID NO: 24)
HVR2-HC: *WINTYTGETTYADDFKG* (SEQ ID NO: 25)
HVR3-HC: *EGGVNN* (SEQ ID NO: 26)
CH1:
ASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVP
SSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHT (SEQ ID NO: 27)

FIG. 14

ATGAAGAAGAATATTGCGTTCCTACTTGCCTCTATGTTTGTCTTTTCTATAGCTACAAACGCGTATGCTGAT
ATCCAGGTGACCCAGTCTCCATCCTCCCTGTCTGCATCTGTAGGAGACCGCGTCACCATCACTTGCATTACC
AGCACTGATATTGATGATGATATGAACTGGTATCAGCAGAAACCAGGGAAAGTTCCTAAGCTCCTGATCTCT
GGAGGCAATACTCTTCGTCCTGGGGTCCCATCTCGGTTCAGTGGCAGTGGATCTGGGACAGATTTCACTCTC
ACCATCAGCAGCCTGCAGCCTGAAGATGTTGCAACTTATTACTGTTTGCAAAGTGATTCTTTGCCGTACACG
TTTGGCCAGGGTACCAAGGTGGAGATCAAACGAACTGTGGCTGCACCATCTGTCTTCATCTTCCCGCCATCT
GATGAGCAGTTGAAATCTGGAACTGCTTCTGTTGTGTGCCTGCTGAATAACTTCTATCCCAGAGAGGCCAAA
GTACAGTGGAAGGTGGATAACGCCCTCCAATCGGGTAACTCCCAGGAGAGTGTCACAGAGCAGGACAGCAAG
GACAGCACCTACAGCCTCAGCAGCACCCTGACGCTGAGCAAAGCAGACTACGAGAAACACAAAGTCTACGCC
TGCGAAGTCACCCATCAGGGCCTGAGCTCGCCCGTCACAAAGAGCTTCAACAGGGGAGAGTGTTAA

FIG. 15

DIQVTQSPSSLSASVGDRVTITC*ITSTDIDDDMN*WYQQKPGKVPKLLIS*GGNTLRP*GVPSRFSGSGSGTDFT
LTISSLQPEDVATYYC*LQSDSLPYT*FGQGTKVEIKRTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREA
KVQWKVDNALQSGNSQESVTEQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC
(SEQ ID NO: 29)

FR1-LC: DIQVTQSPSSLSASVGDRVTITC (SEQ ID NO: 30)
FR2-LC: WYQQKPGKVPKLLIS (SEQ ID NO: 31)
FR3-LC: GVPSRFSGSGSGTDFTLTISSLQPEDVATYYC (SEQ ID NO: 32)
FR4-LC: FGQGTKVEIK (SEQ ID NO: 33)
HVR1-LC: *ITSTDIDDDMN* (SEQ ID NO: 34)
HVR2-LC: *GGNTLRP* (SEQ ID NO: 35)
HVR3-LC: *LQSDSLPYT* (SEQ ID NO: 36)
CL1:
RTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSTYSLSSTL
TLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC (SEQ ID NO: 37)

FIG. 16

ATGAAAAAGAATATCGCATTTCTTCTTGCATCTATGTTCGTTTTTTCTATTGCTACAAACGCGTACGCTGAA
GTCCAGCTGGTGCAATCTGGGCCTGAGTTGAAGAAGCCTGGGGCCTCAGTGAAGGTTTCCTGCAAGGCTTCT
GGATACACCTTCACTAACTATGGAATGAACTGGGTGCGCCAAGCCCCTGGACAAGGGCTTGAGTGGATGGGA
TGGATTAACACCTACACTGGAGAGACAACATATGCTGATGACTTCAAGGGACGGTTTGTCTTCTCCTTGGAC
ACCTCTGTCAGCACGGCATATCTGCAGATCAGCAGCCTCAAGGCTGAGGACACTGCCGTGTATTACTGTGAG
CGCGAGGGGGGGGTTAATAACTGGGGCCAAGGGACCCTGGTCACCGTCTCCTCAGCCTCCACCAAGGGCCCA
TCGGTCTTCCCCCTGGCACCCTCCTCCAAGAGCACCTCTGGGGGCACAGCGGCCCTGGGCTGCCTGGTCAAG
GACTACTTCCCCGAACCGGTGACGGTGTCGTGGAACTCAGGCGCCCTGACCAGCGGCGTGCACACCTTCCCG
GCTGTCCTACAGTCCTCAGGACTCTACTCCCTCAGCAGCGTGGTGACCGTGCCCTCCAGCAGCTTGGGCACC
CAGACCTACATCTGCAACGTGAATCACAAGCCCAGCAACACCAAGGTGGACAAGAAAGTTGAGCCCAAATCT
TGTGACAAAACTCACACATAA

FIG. 17

EVQLVQSGPELKKPGASVKVSCKAS*GYTFTNYGMN*WVRQAPGQGLEWMG*WINTYTGETTYADDFKG*RFVFSL
DTSVSTAYLQISSLKAEDTAVYYCER*EGGVNN*WGQGTLVTVSSASTKGPSVFPLAPSSKSTSGGTAALGCLV
KDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPK
SCDKTHT (SEQ ID NO: 31)

FR1-HC: EVQLVQSGPELKKPGASVKVSCKAS (SEQ ID NO: 32)
FR2-HC: WVRQAPGQGLEWMG (SEQ ID NO: 33)
FR3-HC: RFVFSLDTSVSTAYLQISSLKAEDTAVYYCER (SEQ ID NO: 34)
FR4-HC: WGQGTLVTVSS (SEQ ID NO: 35)
HVR1-HC: *GYTFTNYGMN* (SEQ ID NO: 36)
HVR2-HC: *WINTYTGETTYADDFKG* (SEQ ID NO: 37)
HVR3-HC: *EGGVNN* (SEQ ID NO: 38)
CH1:
ASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVLQSSGLYSLSSVVTVP
SSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHT (SEQ ID NO: 39)

FIG. 18

FIGURE 19

Asp Ile Gln Val Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val

Gly Asp Arg Val Thr Ile Thr Cys Ile Thr Ser Thr Asp Ile Asp

Asp Asp Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Val Pro Lys

Leu Leu Ile Ser Gly Gly Asn Thr Leu Arg Pro Gly Val Pro Ser

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile

Ser Ser Leu Gln Pro Glu Asp Val Ala Thr Tyr Tyr Cys Leu Gln

Ser Asp Ser Leu Pro Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu

Ile Lys

FIGURE 20

Gln Val Gln Leu Val Gln Ser Gly Pro Glu Leu Lys Lys Pro Gly

Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr

Asn Tyr Gly Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu

Glu Trp Met Gly Trp Ile Asn Thr Tyr Thr Gly Glu Thr Thr Tyr

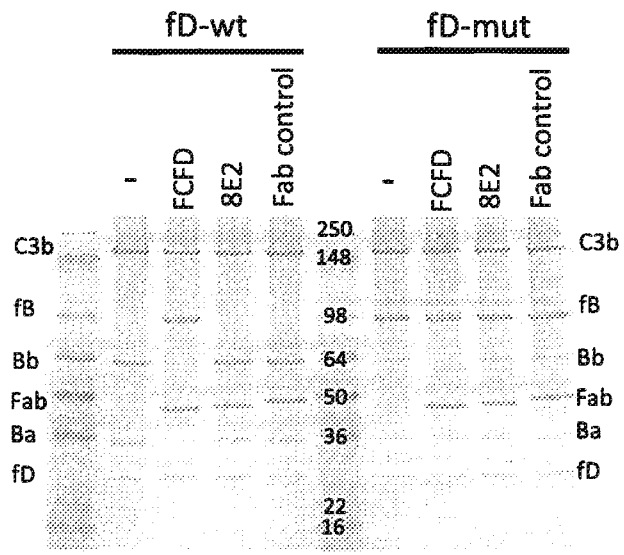
Ala Asp Asp Phe Lys Gly Arg Phe Val Phe Ser Leu Asp Thr Ser

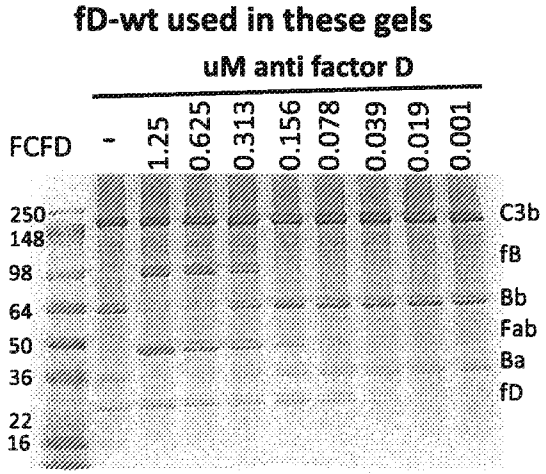
Val Ser Thr Ala Tyr Leu Gln Ile Ser Ser Leu Lys Ala Glu Asp

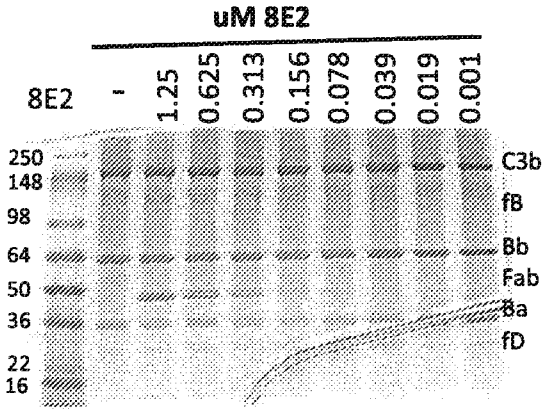
Thr Ala Val Tyr Tyr Cys Glu Arg Glu Gly Gly Val Asn Asn Trp

Gly Gln Gly Thr Leu Val Thr Val Ser Ser

Figure 21
Anti-factor D (FCFD) inhibits fD cleavage of fB; fD-mut is inactive







Final concentrations
fD-wt= 125 nM
fD-mut= 125 nM
fB= 500 nM
C3b 500 nM
FCFD= 1.25 uM
8E2= 1.25 uM
Anti-hepsin hIgG= 1.25 uM

Figure 22
Binding of factor D to C3bB (Biacore analysis)

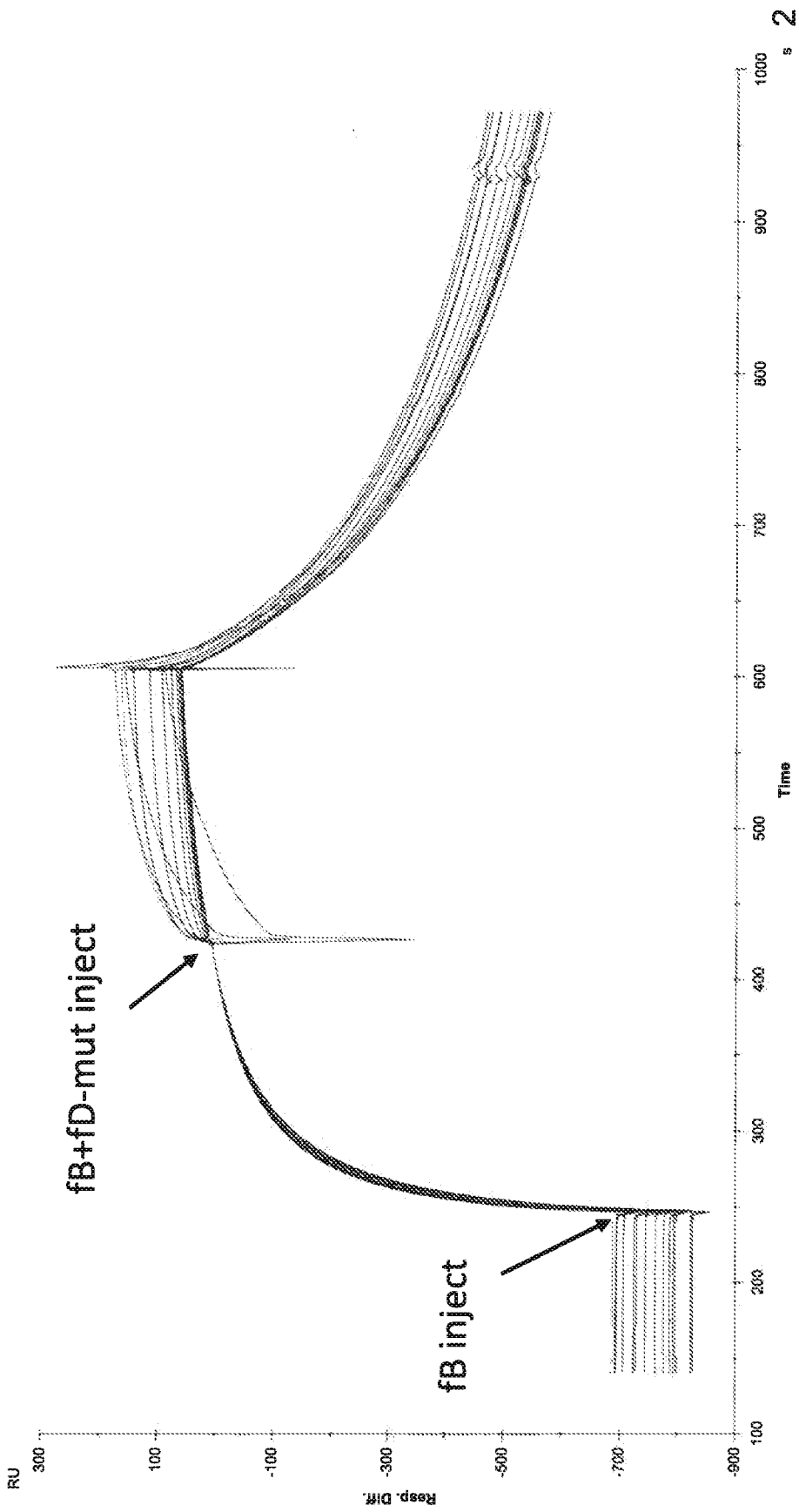


Figure 23
Subtract fB binding from fD-mut

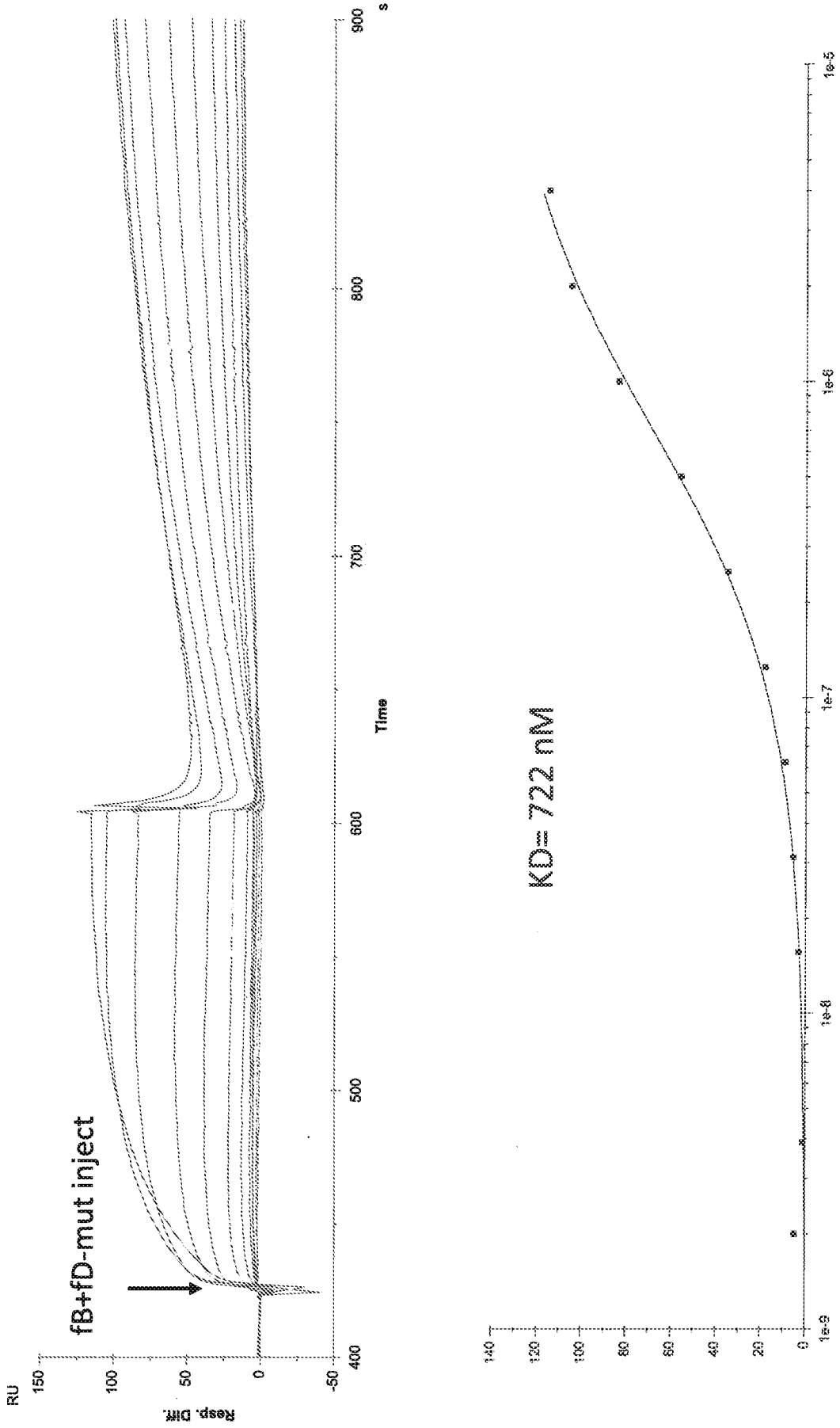
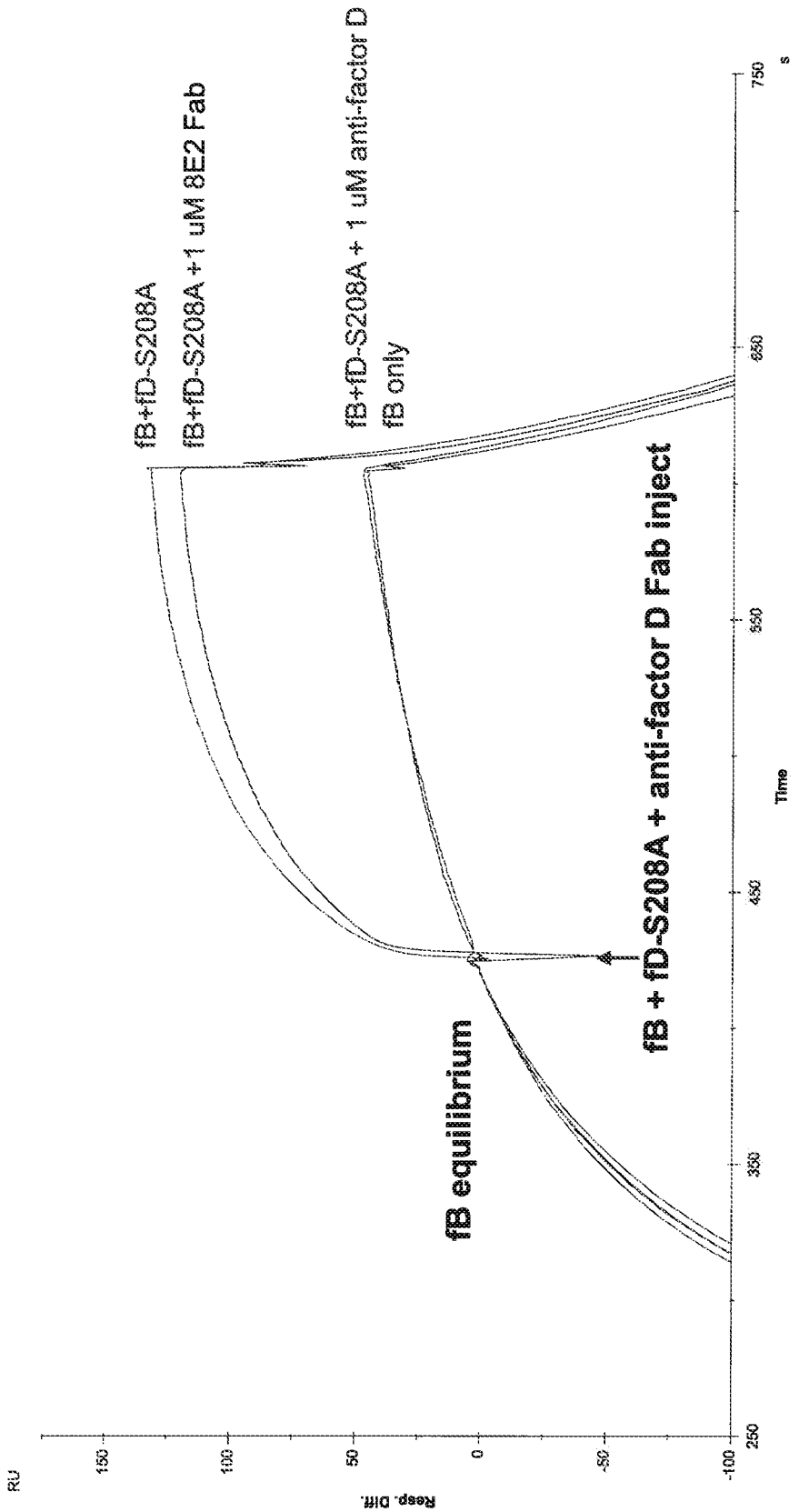


Figure 24

Anti-factor D (FCFD) blocks fB binding to mut-fD

1 uM fB + 1 uM fD (S208A) (PUR232122) +8E2 Fab titrated



4

Figure 25

Anti-factor D (FCFD) blocks fB binding to mut-fD

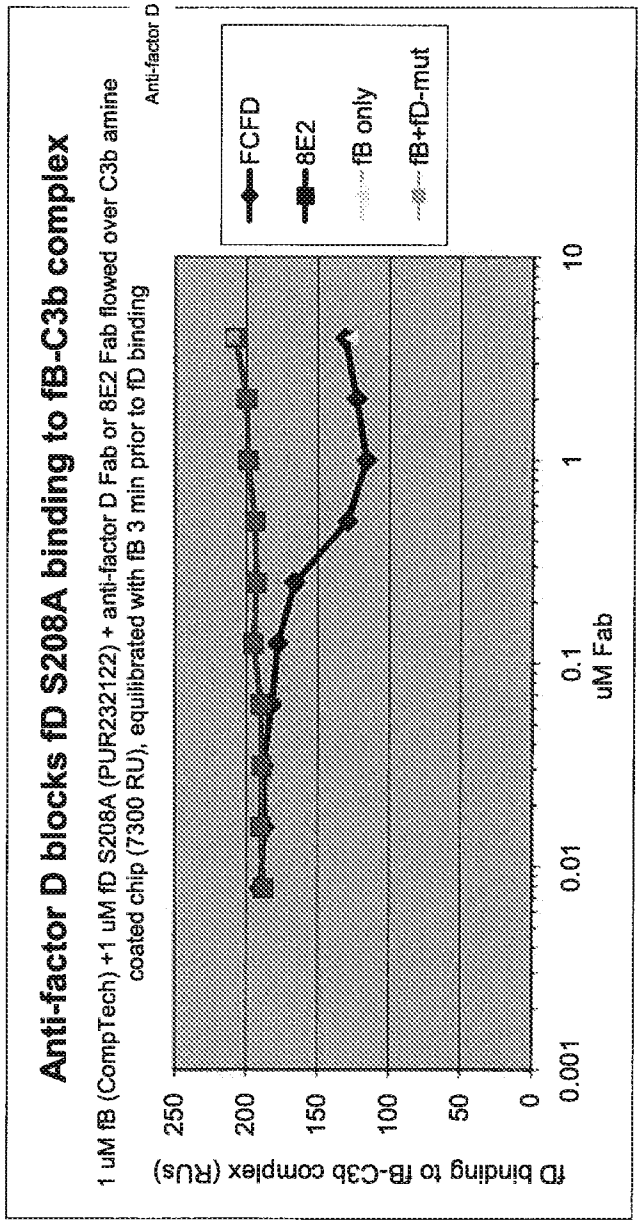


Figure 26
Anti-factor D (FCFD) does not block proteolysis of a small substrate

serine-protease substrate Z-Lys-SBzl fD cleavage enhanced by FCFD

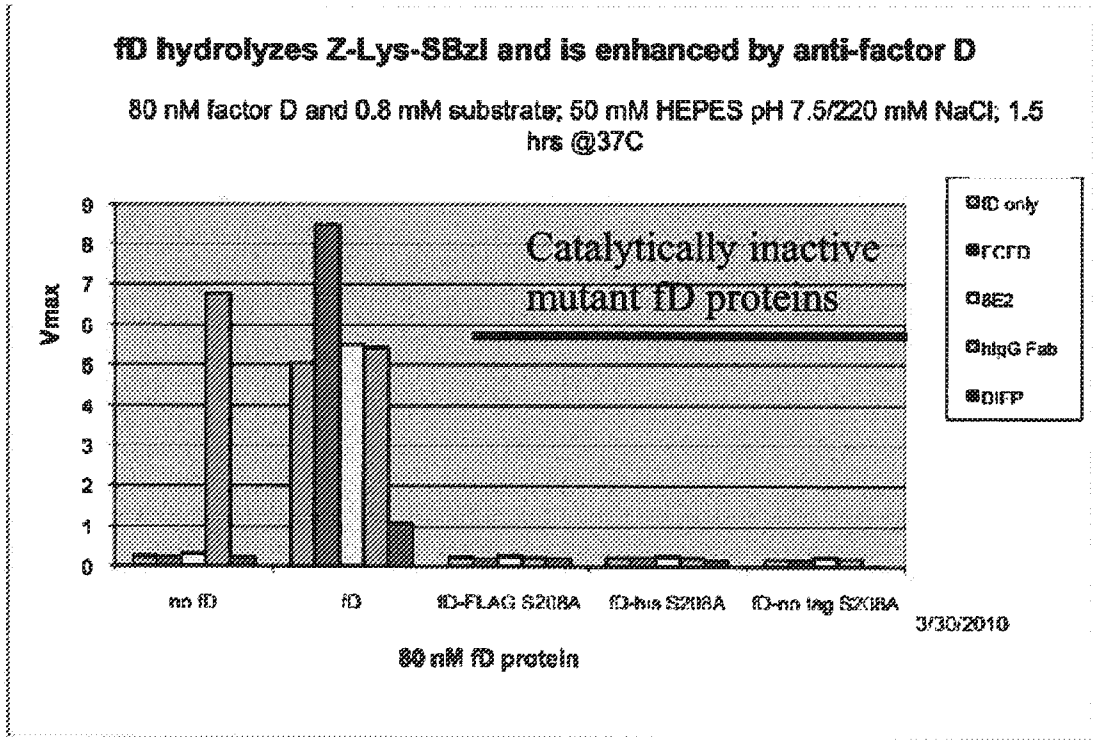
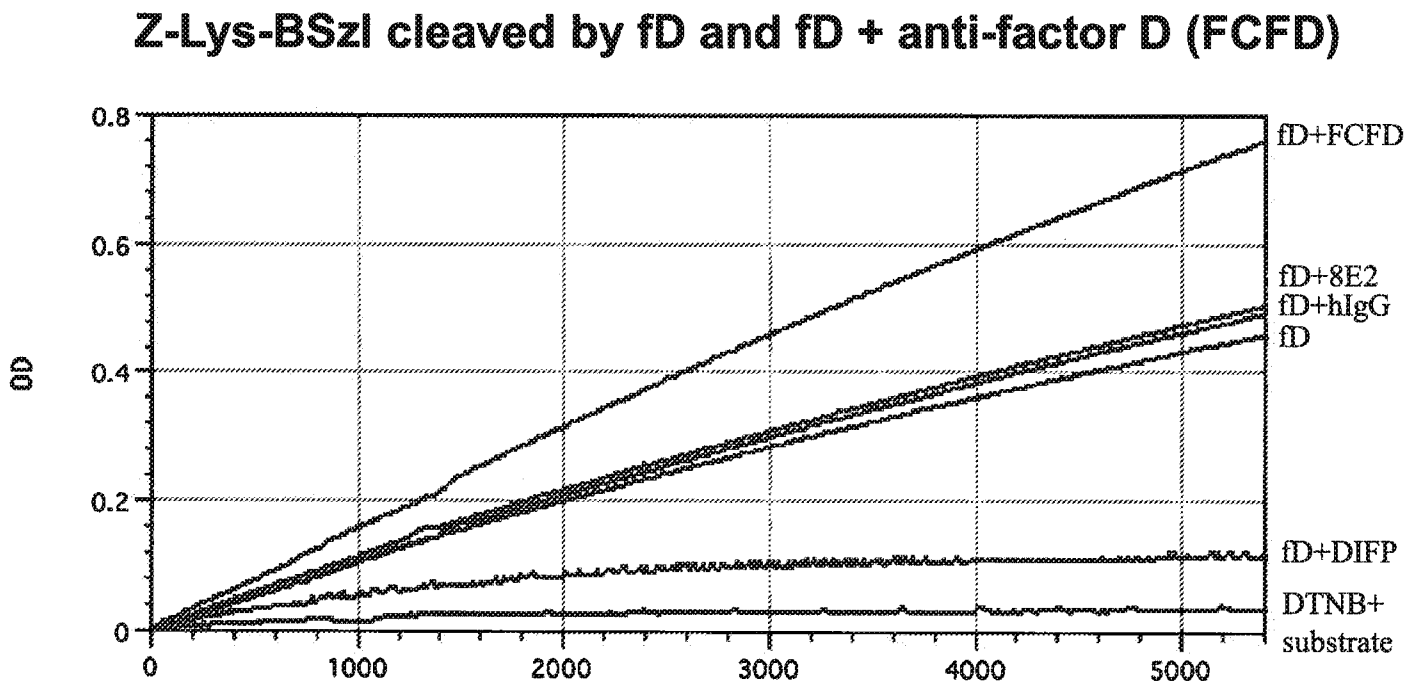
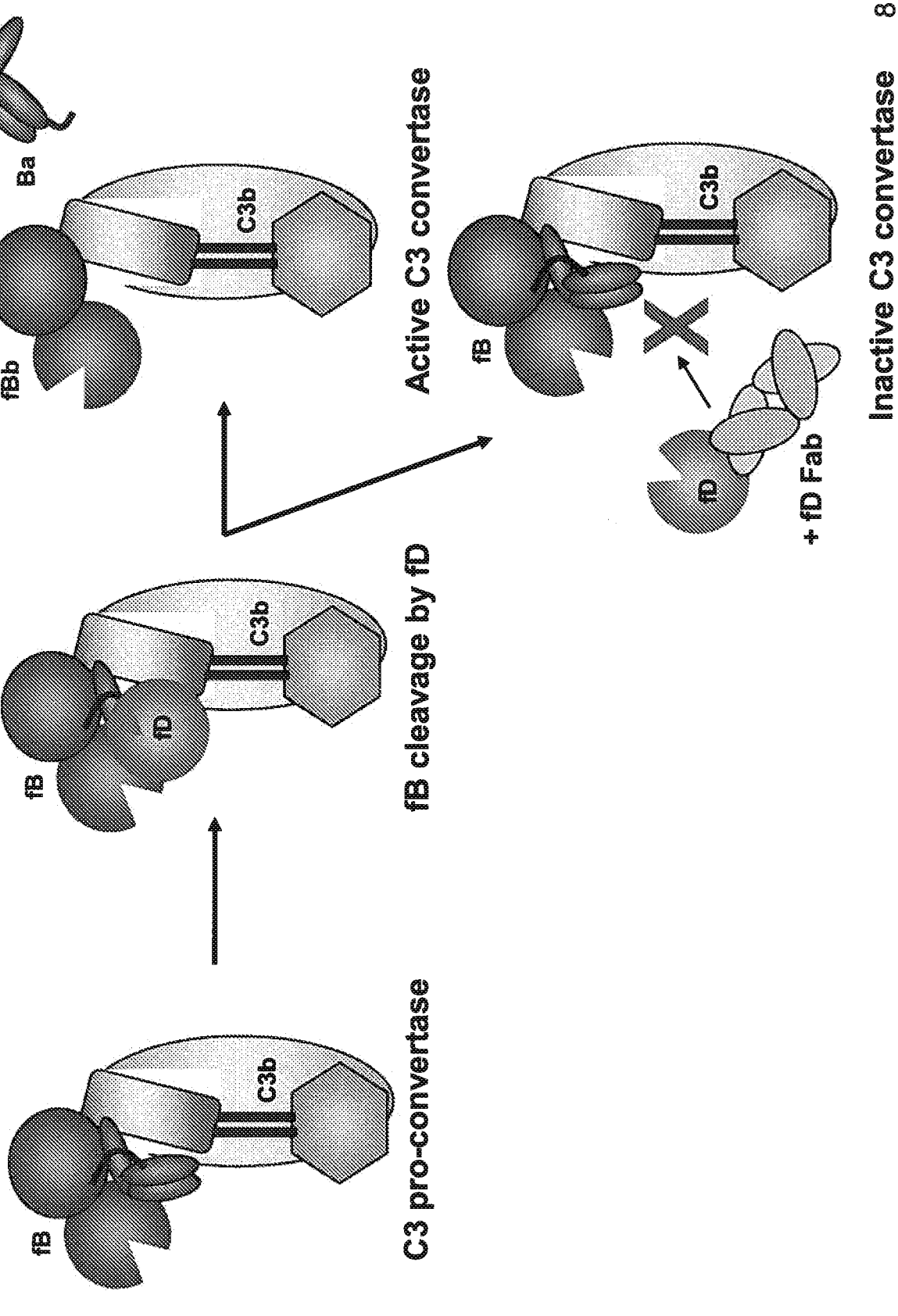


Figure 27
Anti-factor D (FCFD) does not block proteolysis of a small substrate



Well	B3	B4	B5	B6	B7	B8
Vmax	0.279	5.043	8.485	1.071	5.427	5.507
R^2	0.764	0.995	0.997	0.842	0.996	0.996
	DTNB+ substrate	fD	fD+FCFD	fD+DIFP	fD+hIgG	fD+8E2

Figure 28
Factor D-mediated formation of the alternative pathway C3 convertase: Blockade by anti fD Fab



INTERNATIONAL SEARCH REPORT

International application No
PCT/US2010/055509

A. CLASSIFICATION OF SUBJECT MATTER
INV. C12N9/64 G06F19/16
ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
C12N G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal, Sequence Search, BIOSIS, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JING H ET AL: "Structures of native and complexed complement factor D: implications of the atypical his57 conformation and self-inhibitory loop in the regulation of specific serine protease activity", JOURNAL OF MOLECULAR BIOLOGY, LONDON, GB, vol. 282, no. 5, 9 October 1998 (1998-10-09), pages 1061-1081, XP004462372, ISSN: 0022-2836, DOI: DOI:10.1006/JMBI.1998.2089	1-3,7, 29-32
Y	in particular page 1062-63 and Table 1 and page 1078.; the whole document	1-3,5, 7-11,13, 15-19, 21, 23-26, 29-32

-/--

[X] Further documents are listed in the continuation of Box C.

[X] See patent family annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
20 December 2010	12/01/2011

Name and mailing address of the ISA/	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Vix, Olivier

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Form PCT/ISA/210 (second sheet) (April 2005)

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JING H ET AL: "Structural basis of profactor D activation: from a highly flexible zymogen to a novel self-inhibited serine protease, complement factor D.", THE EMBO JOURNAL 15 FEB 1999 LNKD-PUBMED:10022823, vol. 18, no. 4, 15 February 1999 (1999-02-15), pages 804-814, XP002614846, ISSN: 0261-4189	1-3,7
Y	The query sequence SEQ ID NO:1 has 100.00 % identity over 235 aa positions in a common overlap (range (q:s): 19-253:1-235) with subject PDB:1FDP_C (length: 235 aa) and 100.00 % identity over 235 aa positions in a common overlap (range (q:s): 19-253:1-235) with subject PDB:1FDP_A (length: 235 aa) disclosed herein.; the whole document	1-3,5, 7-11,13, 15-19, 21, 23-26, 29-32
Y	DATABASE UniProt [Online] 21 July 1986 (1986-07-21), "RecName: Full=Complement factor D; EC=3.4.21.46; AltName: Full=Adipsin; AltName: Full=C3 convertase activator; AltName: Full=Properdin factor D; Flags: Precursor;", XP002614847, retrieved from EBI accession no. UNIPROT:P00746 Database accession no. P00746 The query sequence SEQ ID NO:1 has 100.00 % identity (100.00 % similarity) over 253 aa positions in a common overlap (range (q:s): 1-253:1-253) with subject UNIPROT:P00746 (length: 253 aa).; the whole document	1-3, 7-11,13, 15-19, 21, 23-26, 29-32
Y	US 2009/269338 A1 (HUANG ARTHUR [US] ET AL) 29 October 2009 (2009-10-29) the whole document	8-11,13, 15-19, 21,23-26
Y	US 2008/118506 A1 (AN LING-LING [US] ET AL) 22 May 2008 (2008-05-22) the whole document	8-11,13, 15-19, 21,23-26

-/--

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	FAELBER K ET AL: "The 1.85 A resolution crystal structures of tissue factor in complex with humanized fab d3h44 and of free humanized fab d3h44: revisiting the solvation of antigen combining sites", JOURNAL OF MOLECULAR BIOLOGY, LONDON, GB, vol. 313, no. 1, 12 October 2001 (2001-10-12), pages 83-97, XP004466190, ISSN: 0022-2836, DOI: DOI:10.1006/JMBI.2001.5036 the whole document	8-11,13, 15-19, 21,23-26

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2010/055509

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. [X] Claims Nos.: 27, 28, 33, 34
because they relate to subject matter not required to be searched by this Authority, namely:

see FURTHER INFORMATION sheet PCT/ISA/210

2. [ ] Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. [ ] Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. [ ] As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.

2. [X] As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.

3. [ ] As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. [ ] No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

[ ] The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.

[ ] The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.

[ ] No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 3, 4, 11, 12, 19, 20, 24-26, 29-32(completely); 1, 2, 7-10, 15-18, 23(partially)

   A human Factor D crystal form and use thereof (based on the structure coordinates set forth in Appendix 1A).

   ---

2. claims: 5, 6, 13, 14, 21, 22(completely); 1, 2, 7-10, 15-18, 23(partially)

   A cynomologous Factor D crystal form and use thereof (based on the structure coordinates set forth in Appendix 1B).

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.1

Claims Nos.: 27, 28, 33, 34

Concerning claims 27-28 and 34 applicant's attention is drawn to Rule 67(v) PCT. The subject-matter of said claims refers to the presentation of structure data (a structural model of the human Factor D) and is not regarded as patentable invention within the meaning of Rule 67 (v) PCT since it relates to a presentation of information (protein model structure coordinates) stored on a computer. The applicant is, however, requested to note that it may be possible to obtain alternative protection in the form of a copyright. Moreover, the Applicant's attention is drawn to the fact that claim 33 lacks clarity (Art. 6 PCT) because it refers to a "chemical entity" identified/designed by a given in silico screening method in absence of any characterising structural feature. Such a product claim will not be allowed in the Regional phase. An objection under Article 5 PCT also arises since the existence of such compounds is merely speculative. The applicant should be aware that a "chemical entity" is not rendered novel just because of the fact that they have been identified by a given screening or drug-design method, ie such compounds, their production process and their use can already exist in the art. For those reasons, no "reach-through compounds" claims (or their use, also their "formulation"/"synthesis" in method claims) will be allowed. Relating to this, the novelty of such a claim cannot be acknowledged simply because these claims are dealing with hypothetic "chemical entity" which is only functionally defined ("fitting... into a binding site") so that any readily available compound may fall under the scope of these claims. Furthermore, it is not possible to determine if any of presently known substances is falling under the terms of these claims without testing all known substances, clearly an undue burden.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/US2010/055509

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2009269338 A1	29-10-2009	AR 071510 A1	23-06-2010
		AU 2009241348 A1	05-11-2009
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		PE 17832009 A1	04-12-2009
		WO 2009134711 A1	05-11-2009
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		AU 2007313685 A1	08-05-2008
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		CO 6190543 A2	19-08-2010
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		EP 2097455 A2	09-09-2009
		JP 2010508819 T	25-03-2010
		KR 20090078364 A	17-07-2009
		PE 12592008 A1	31-10-2008
		WO 2008055206 A2	08-05-2008